

10 February 2020

Mr. Brian Jankauskas, P.E.  
NYSDEC  
Remedial Bureau A  
Division of Environmental Remediation  
Albany, NY 12233-7015

Subject: Groundwater, Indoor Air and Sub-Slab Soil Gas Sampling Results (12/19) & Proposed Next Steps  
Former Chez Valet Dry Cleaners  
NYSDEC site #1-30-169  
3 Manorhaven Blvd., Port Washington, NY 11050

Dear Mr. Jankauskas,

This letter will serve to:

1. Transmit the recently completed *Indoor Air and Subslab Soil Gas Sampling Event* letter report prepared by Cody Ehlers Group (CEG) including *Indoor Air Quality (IAQ) Monitoring Data* shown as a table summarizing the Phoenix Laboratory analytical results
2. Transmit the final Data Usability Summary Report and Indoor Air Quality Monitoring Report prepared by NEH.
3. Transmit the Groundwater Sampling letter report, prepared by CEG.
4. Evaluate the findings of the data accumulated for the subject site thru December 2019.
5. Review proposed next steps.

#### **Operational Steps Taken during This Reporting Period**

1. The Sub Slab Depressurization System (SSDS) was turned off on December 27, 2017 and has remained off while in a standby condition. Based on the continued trend described at that time, and the results of the 2018 sampling event, we proposed and NYSDEC approved that the SSDS remain off until the recent indoor air quality testing during the December 2019 heating season. Presently, the SSDS remains off.
2. During this timeframe, multiple discussions were had with Country Cleaner owners regarding their (clothes) spot cleaning chemical inventory. The owners have commented that no chemicals containing either TCE or PCE are used in their spot cleaning process.

## Progress Made during This Reporting Period

Taking into consideration that the SSDS has not been operational since December 4, 2017, we could anticipate some rebound in the indoor air and subslab readings conducted on December 4, 2019. Please refer to Figure 1 in IAQ report.

Although subslab PCE levels rose in the Cabinet Store area, the indoor air PCE levels, in all areas, remained below the New York State Department of Health (NYSDOH) recommended level of 30 mcg/m<sup>3</sup>.

Subslab TCE levels in the North Room (Country Cleaners), the Cabinet Store and the Salon Area dropped. Indoor air TCE levels in the Salon remained below the 2 mcg/m<sup>3</sup> NYSDOH recommended level while the North Room was at 31 mcg/m<sup>3</sup> and the Cabinet Store was at 1.73 mcg/m<sup>3</sup>. It is likely that the Cabinet Store is experiencing this reading due to its proximity to the North Room.

When compared to NYSDOH, May 2017, Soil Vapor/Indoor Air Matrix A & B (please refer to IAQ report) the following results can be seen.

Matrix A (TCE):

- Salon – No Further Action
  - (Same as previous Sampling Event)
- Cabinet Store – No Further Action
  - (Previously = Identify Source (S) and Resample or Mitigate)
- North Room a.k.a. Country Cleaners – = Identify Source (S) and Resample or Mitigate
  - (Previously Mitigate)

Matrix B (PCE):

- Salon – No Further Action
  - (Same as previous Sampling Event)
- Cabinet Store – no further action
  - (Same as previous Sampling Event)
- North Room a.k.a. Country Cleaners – monitor
  - (Same as previous Sampling Event)

Within Last year's IAQ report we presented information that supported that the remaining TCE and PCE impacts are likely due to the commercial activities of Country Cleaners. We feel that through an additional year of the SVE/SSD system remaining inactive while achieving similar results, our position is maintained. We believe that the remedial activities have been completed and that remaining impacts are due to the nature of the commercial activities within Country Cleaners.

In addition, the most recent groundwater sampling event, conducted in December 2019, showed a continuous downward trend in tetrachloroethene concentrations (1.3 ug/L) in MW-2 [previously 20 ug/L in April 2012]. Please refer to attached groundwater monitoring letter report.

It is therefore our belief that the remediation effort is complete and that any residual TCE and PCE readings are result of the type of operation conducted by Country Cleaners.

Given the most recent data we conclude that:

- the remediation effort has reached its cleanup objectives for PCE,
- the residual PCE/TCE concentration is created by the day-to-day business activities of the dry cleaning operation which exists in the “North Room”, and
- that the SVE/SSD effort be concluded and the system be dismantled.

We look forward to discussing these items with you as soon as conveniently possible.  
Should you have any questions or comments please do not hesitate to call me.

Best Regards,

Andris H. Ledins, P.E.

CC: Amanda G. Benjamin-Smith  
Keyvan Ghaytanchi  
Michael J. Cody – CEG

# CODY EHLERS GROUP

EHS CONSULTING AND SERVICES

935 WHITE PLAINS ROAD  
TRUMBULL, CONNECTICUT 06611  
PHONE: (203) 259-7722

February 3, 2020

Mr. Bert Brodsky  
Owners Representative  
BSI, LLC  
26 Harbor Park Drive  
Port Washington, New York 11050

RE: Summary Report  
Indoor Air and Sub-Slab Soil Gas Sampling Event  
Former Chez Valet Dry Cleaners  
3 Manorhaven Blvd.  
Port Washington, New York 11050  
NYSDEC Site # 1-30-169

Dear Mr. Brodsky:

Cody Ehlers Group (CEG) has been authorized to conduct the annual Indoor Air Quality (IAQ) and Sub-Slab Soil Gas Sampling event at the former Chez Valet Dry Cleaners, 3 Manorhaven Boulevard, Port Washington, New York. The purpose of the project is to support the formal closure of site remedial actions in accordance with the requirements of the Record of Decision (ROD) prepared for the Site by the New York State Department of Environmental Conservation (NYSDEC).

## ***Background and Purpose***

The former Chez Valet building located in a well-developed commercial section of Port Washington (the Site or Property). The 0.30-acre Property contains a 6500-square foot, one-story building constructed in 1926. The remainder of the Property is covered by an asphalt-paved parking lot. The building is presently subdivided into three spaces and is fully occupied. It was formerly occupied by Chez Valet, which conducted dry cleaning operations from the 1970s until 2006. A nail salon, a kitchen interior remodeling store and a dry cleaner presently occupy the building.

Investigations conducted beginning in 2004 identified tetrachloroethene (PCE) in both soil vapor and groundwater at or near the site. The prior owner of the building, Southampton Masonry Tools, LLC, entered into an Order on Consent

with the NYSDEC on August 15, 2008 to investigate and remediate the PCE. On June 1, 2016, the successor-in-interest to Southampton Masonry Tools, LLC, 1-3 Manorhaven Boulevard, LLC, entered into an Order on Consent with NYSDEC in order to complete the requirements of the ROD. A brief summary of the remedial measures taken since 2008 are presented below.

In February 2009, the Responsible Party began Interim Remedial Measures (IRMs) that included the install and operation of a soil vapor extraction/sub-slab depressurization system (SVE/SSD) within the footprint of the building. The SVE/SSD system was designed to remove the targeted volatile organic compounds (VOCs) identified during the investigative work, in particular tetrachloroethene (PCE) and its breakdown products and impurities.

Studies conducted as required by the 2008 Order on Consent were concluded in 2011. These studies concluded that historical releases of dry cleaning solvents had resulted in the presence of chlorinated solvents beneath the building and within the Chez Valet space. In March 2011, based on the results of the investigations at the site, the NYSDEC issued a ROD for this Site. The NYSDEC proposed a No Further Action remedy with the continued operation of the SVE/SSD system and continued monitoring of groundwater contaminant trends, as well as the implementation of Institutional and Engineering Controls (ICs/ECs). The Department stated that this remedy is protective of human health and the environment and satisfies the remediation objectives of the ROD.

The ROD required that the SVE/SSD system performance be monitored to evaluate its effectiveness in removing the targeted VOCs from the Property. Two evaluation methods were used. First, Severn Trent personnel collected monthly field measurements of the VOC concentrations using a photoionization detector (PID). The measurements were collected from sampling ports of the untreated soil gas collected by the system prior to carbon treatment and from the post-carbon treated emissions.

Severn Trent supplemented the monthly field measurements with annual sampling and analysis of six air samples. Samples were collected from:

- Ambient air outside of the building,
- Sub-slab vapor samples from beneath the concrete floor of the building, and
- Indoor air samples collected within the building.

The sample results were compared to criteria and guidance values set by the New York State Department of Health (NYSDOH) in its *"Guidance for Evaluating Soil and Vapor Intrusion in the State of New York"*, May 2017.

Previous analytical testing has been done beginning in February 2009 through February 2018. CEG has been retained to conduct an additional round of air quality. As far back as early 2012, Severn Trent concluded that the field measurements and the laboratory analytical results showed that the PCE had been remediated to below the 2006 NYEDOH 100 ug/m<sup>3</sup> Standard Criteria and Guidance Value. In May 2017, NYSDOH revised the SCG for PCE downward to 30 ug/m<sup>3</sup> and also revised the SCG for trichloroethylene (TCE) downward from 5 to 2 ug/m<sup>3</sup>.

### *Scope of Work*

The scope of work is based upon the March 2017 proposed sampling scope, which was agreed to by Brian Jankauskas, the NYSDEC case manager and the CEG proposal dated November 8, 2018. The NYSDEC has previously approved a Site Management Plan (SMP), which is available for review, as necessary. The assignment has been performed in accordance with the SMP.

The scope of work included the collection of eight air quality samples as follows:

1. Outdoor/ Ambient Air Sample collected from a location outside (west of) the Chez Valet facility.
2. Sampling Point VP-3 – soil gas from beneath the floor of the Country Cleaners dry cleaners.
3. Indoor Air Sample IA-3 – indoor air within the dry cleaners.
4. Sampling Point VP-4 - soil gas from beneath the floor of the hair styling salon.
5. Indoor Air Sample IA-4 – indoor air within the hair styling salon.
6. Indoor Air Sample IA-4 duplicate,
7. Indoor Air Sample IA-6 – indoor air within the cabinet store.
8. Sampling Point VP-6 – soil gas from beneath the floor of the cabinet store.

The locations of the eight samples are depicted on the attached Figure 1.

The SVE/SSD system has been shut down since December 27, 2017. Kyle Kreter, CEG field scientist, collected the samples on December 4, 2019. The samples were collected using laboratory-provided, individually certified Summa canisters. Sample collection, handling and preservation protocols followed the NYSDEC and NYS Department of Health protocols as outlined in the SMP. The samples were delivered to Phoenix Environmental Laboratories, Inc., Manchester, Connecticut 06045. Phoenix is a NYSDEC- approved laboratory (#11301).

Each sample was analyzed for TO-15 volatile organic compounds (VOCs) by Phoenix. The analytical results (detects only) are summarized on the attached Table 1.

In addition, at the request of the NYS DEC, one ground water sample was collected from well MW-2 located on the adjacent property owned by the Town of Manorhaven. The well is identified on the attached "Map of Survey", Figure 2, as an attachment. CEG will issue a separate summary report describing the redevelopment and sampling tasks and the key findings and conclusions.

Briefly, the well was re-developed on December 4, 2019 and a ground water sample collected on December 12<sup>th</sup>, was analyzed for halogenated VOCs, using EPA Method 8260c. The results were compared to the "AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATIONS", Division of Water Technical and Operational Guidance Series (1.1.1), June 1998. Both PCE and TCE are considered to be Principal Organic Contaminant (POCs) with a groundwater standard of 5 ug/L. No TCE was detected (ND at 1.0 ug/L) and PCE was present at 1.3 ug/L. PCE detections in MW-2 from March 2009 and April 2012 sampling events were at 25 ug/L and 20 ug/L, respectively. The current result is approximately 5% of the 2012 detected value and well under the 5 ug/L criteria.

### ***Summary of Analytical Results***

A copy of the Phoenix Environmental Category B analytical data package is attached to this letter report. As required by NYSDEC, a third-party data validation firm validated the analytical results. New Environmental Horizons, Inc., Skillman, New Jersey, prepared the Data Usability Summary Report (DUSR), which validated the analytical results. New Environmental Horizons, Inc. determined that there were no deficiencies in the data that would affect the usability of the analytical result(s). The DUSR will be delivered to the NYSDEC using the current NYSDEC-required digital deliverables format.

Table 1 (following text) provides the VOC results for *all* compounds detected above their respective reporting levels (RLs). Among the detected VOCs are chlorinated VOCs, which can be considered as impurities or breakdown products of PCE. Table 2 below presents the PCE and TCE distribution within the Chez Valet building for both the December 2018 and December 2019 sampling events. The revised NYSDOH SCGs published in May 2017 for PCE (30 mcg/m<sup>3</sup>) and TCE (2 mcg/m<sup>3</sup>) are included in Table 1.

- Several of the detected VOCs can be attributed to petroleum-related releases. They are present in the ambient air sample, and both indoor air and sub-slab soil gas samples. Additionally, compounds used in aerosol cans as propellants are present in several samples. These compounds have been detected for the past several sampling events.
- A number of VOCs considered to be likely laboratory-introduced contaminants are also present in one or more samples in these past several sampling events.

The ROD only identifies PCE and its possible breakdown products or impurities as contaminants of concern at this Site. The distribution of PCE and TCE, an impurity in industrial-grade PCE, is discussed below and is illustrated on Figure 2. The results for the past two sampling events are highlighted on Table 2. The 2018 sampling events took place after the SVE/SSD was turned off in late 2018. The system has remained “off” through this most recent sampling event in December of 2019

**PCE and TCE Distribution in Indoor Air and Sub-Slab Soil Gas**  
**December 4, 2019**

**Table 2**

|                                       | IAQ  | IA-3        | IA-4  | IA-4 dup | IA-6        | SSSG | VP-3 | VP-4  | VP-6 |
|---------------------------------------|------|-------------|-------|----------|-------------|------|------|-------|------|
| <b>PCE</b><br>(30 ug/m <sup>3</sup> ) | 2018 | 4.93        | <1.36 | <1.36    | 2.98        | 2018 | 188  | 216   | 15.7 |
|                                       | 2019 | 6.39        | 1.75  | 1.71     | 1.99        | 2019 | 207  | 12.6  | 165  |
| <b>TCE</b><br>(2 ug/m <sup>3</sup> )  | 2018 | <b>42.3</b> | <1.07 | <1.07    | <b>7.09</b> | 2018 | 8.91 | <1.07 | 4.14 |
|                                       | 2019 | <b>31</b>   | <0.20 | <0.20    | 1.43        | 2019 | 4.05 | 0.65  | 0.4  |

Values in parentheses are the respective SCGs for indoor air quality.

Results are in ug/m<sup>3</sup>

**31** = >SCG

- PCE:
  - Ambient Air: During the 2019 sampling event, PCE was detected at 0.81 ug/m<sup>3</sup>. PCE was not present at reporting levels in 2018.
  - Indoor Air: In 2019, PCE was detected in all four samples (including IAQ-4dup.). The range of detections was 1.71 to 6.39 ug/m<sup>3</sup>. These detections are similar to the 2018 results although PCE was not detected in the IA-4 sample collected from the hair salon. All detections were well below the SCG (30 mcg/m<sup>3</sup>).
  - Sub-Slab Soil Gas: PCE was present in all 3 samples during both the



2018 and 2019 sampling events. However, the distribution of the PCE changed between 2018 and 2019. While PCE concentrations were similar in the dry cleaner sub-slab soil gas sample (VP-3), PCE in soil gas increased beneath the cabinet/tile room and decreased beneath the hair salon.

- TCE:
  - Ambient Air: TCE was not present at reporting levels during 2018 and 2019.
  - Indoor Air: Present in 2 of 3 samples during both 2018 and 2019 although the 2019 detections are lower than the respective sample results from a year ago. TCE was present during the 2019 sampling event in IA-3 (dry cleaners) at 31 ug/ m<sup>3</sup>, above the 2 ug/ m<sup>3</sup> SCG for TCE.
  - Sub-Slab Soil Gas: Present in each of the 3 samples collected in 2019 at a range of 0.4 ug/ m<sup>3</sup> to 4.05 ug/ m<sup>3</sup>. In 2018, TCE was present at slightly higher concentrations in VP-3 (dry cleaner) and VP-6 (cabinet/tile room) but was not present in VP-4 (hair salon).

#### *Conclusions:*

The air quality data suggest that the PCE and TCE in the indoor air samples are trending downward or stable. Only the TCE in IA-3 within the dry cleaner space was present above its SCG. TCE in the sub-slab soil gas continues to trend downward. PCE within the sub-slab soil gas appears to be moving within the footprint of the building although overall concentrations remain similar to the 2018 analytical results.

The 2018 and 2019 sub-slab soil gas results suggest that the SVE/SSD system has successfully remediated the sub-slab soil gas and that no further remedial action is warranted with respect to subsurface conditions. It should be noted that the SVE/SSD has remained “off” and on standby since late 2018. The continued reduction in PCE and the lack of TCE in groundwater support this conclusion.

The TCE and PCE results were compared to the May 2017 Soil Vapor/Indoor Air Matrix A and B, respectively (see Attachment). For all but the dry-cleaning room, the matrix review indicates that no further action is recommended with respect to human exposures. The review concluded that:

- The TCE identified in the dry-cleaning room indoor air sample requires the following action: "Identify Sources(s) and Resample or Mitigate”.

- For the same dry-cleaning room area, the indoor air sample requires: "Monitor".

Because of the nature of the commercial establishment in this area of the building, we believe that the remaining low levels of PCE and TCE detected are by-products of this commercial activity. Accordingly, we conclude that the remediation of the site has been completed for both PCE and TCE, as required by the ROD.

Regarding the indoor air quality, future efforts, as required either by NYS DEC or the Department of Health, should focus on identifying the source of the contaminants presumably associated with the current dry cleaning operations, as well as the monitoring, controlling and reduction of the PCE and TCE in this airspace to safe, acceptable levels.

Following your review of this summary report, Andy Ledins will forward it along with the DUSR and validated EDD reports and the Phoenix Environmental Laboratories, Inc. data package to the NYSDEC.

Please do not hesitate to contact Andy Ledins or me with any questions.

Very truly yours,

A handwritten signature in blue ink that reads "Michael Cody". The signature is stylized, with the first name "Michael" written in a cursive-like script and the last name "Cody" written in a more blocky, capital-letter style.

Michael Cody  
Project Director

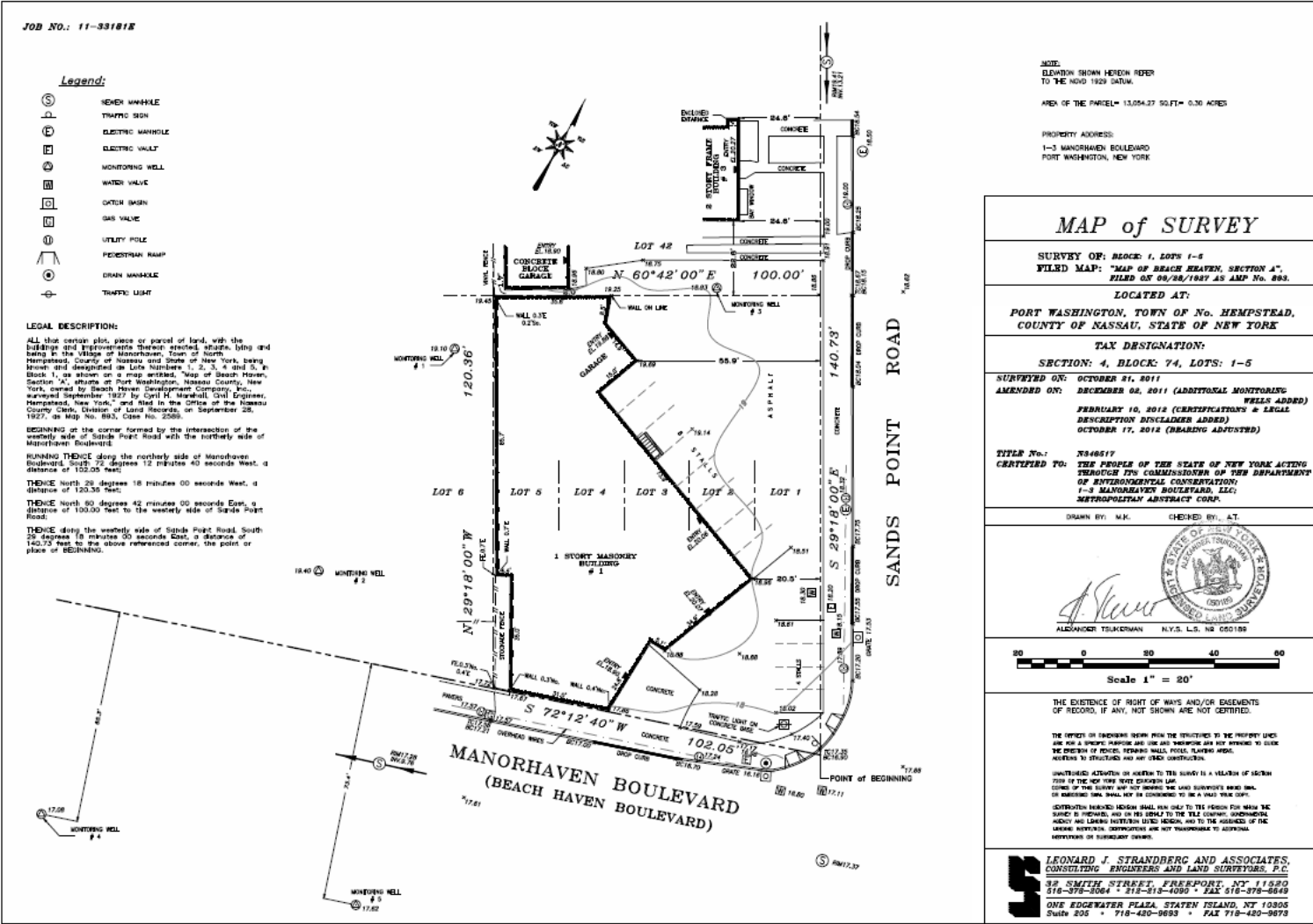
Attachments

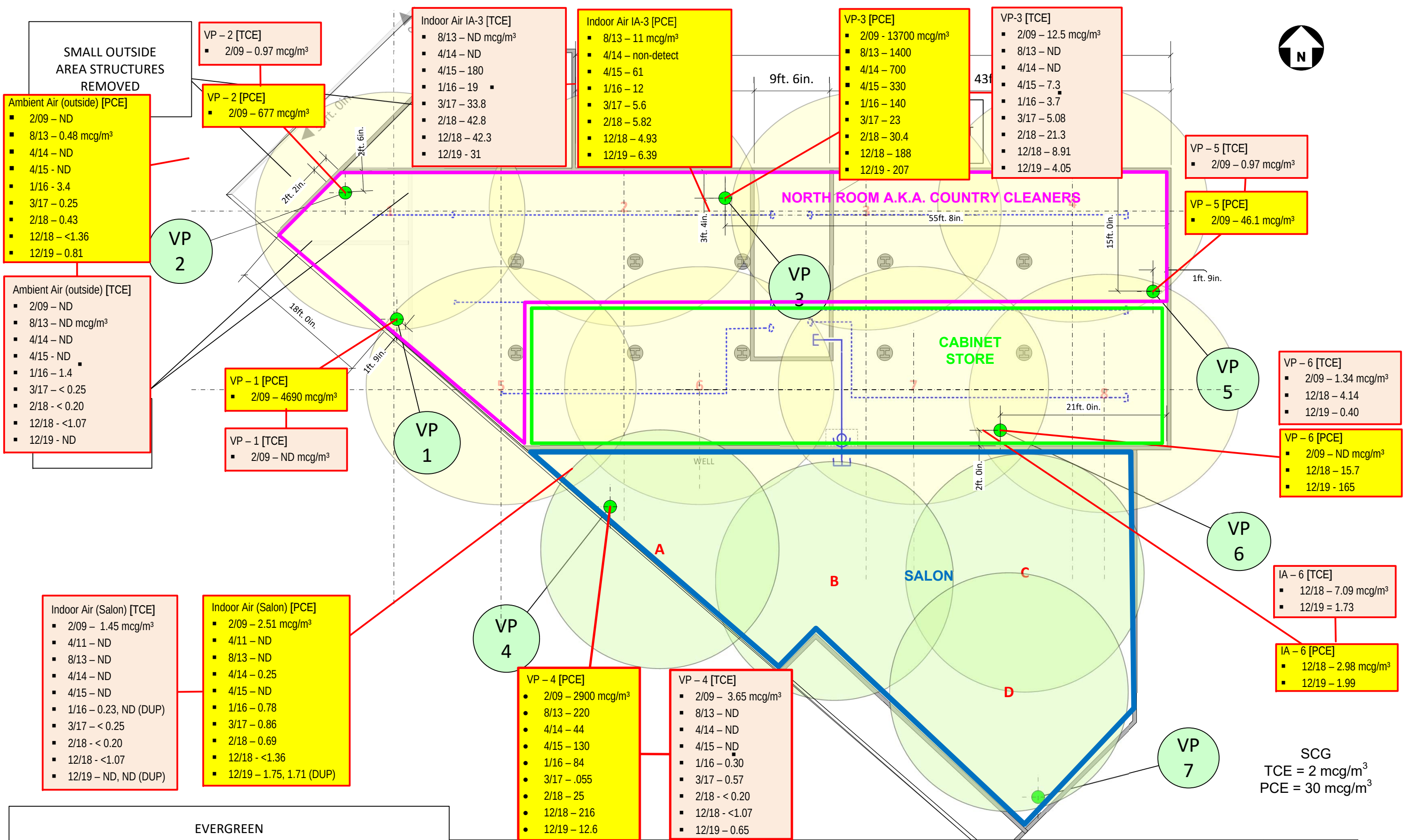
CC: A. Ledins

# ATTACHMENTS

# Figures

Figure 1 – Project Site Map





|                                 |               |       |           |            |  |         |
|---------------------------------|---------------|-------|-----------|------------|--|---------|
| EVERGREEN<br>3 MANORHAVEN BLVD. |               | SIZE  | FSCM NO   | FIGURE - 1 |  | REV     |
| DRAWN                           | ANDRIS LEDINS |       |           |            |  |         |
| ISSUED                          | 2/8/11        | SCALE | SCHEMATIC | SHEET      |  | 1A 1F 6 |

# Soil Vapor/Indoor Air Decision Matrices

# Soil Vapor/Indoor Air Matrix A

May 2017

## Analytes Assigned:

Trichloroethene (TCE), *cis*-1,2-Dichloroethene (c12-DCE), 1,1-Dichloroethene (11-DCE), Carbon Tetrachloride (CCL4)

| SUB-SLAB VAPOR<br>CONCENTRATION of<br>COMPOUND (mcg/m <sup>3</sup> ) | INDOOR AIR CONCENTRATION of COMPOUND (mcg/m <sup>3</sup> ) |                      |                                                |
|----------------------------------------------------------------------|------------------------------------------------------------|----------------------|------------------------------------------------|
|                                                                      | < 0.2                                                      | 0.2 to < 1           | 1 and above                                    |
| < 6                                                                  | 1. No further action                                       | 2. No Further Action | 3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE |
| 6 to < 60                                                            | 4. No further action                                       | 5. MONITOR           | 6. MITIGATE                                    |
| 60 and above                                                         | 7. MITIGATE                                                | 8. MITIGATE          | 9. MITIGATE                                    |

**No further action:** No additional actions are recommended to address human exposures.

**Identify Source(s) and Resample or Mitigate:** We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

**Monitor:** We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

**Mitigate:** We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.



# Soil Vapor/Indoor Air Matrix B

May 2017

## Analytes Assigned:

Tetrachloroethene (PCE), 1,1,1-Trichloroethane (111-TCA), Methylene Chloride

| SUB-SLAB VAPOR<br>CONCENTRATION of<br>COMPOUND (mcg/m <sup>3</sup> ) | INDOOR AIR CONCENTRATION of COMPOUND (mcg/m <sup>3</sup> ) |                      |                                                |
|----------------------------------------------------------------------|------------------------------------------------------------|----------------------|------------------------------------------------|
|                                                                      | < 3                                                        | 3 to < 10            | 10 and above                                   |
| < 100                                                                | 1. No further action                                       | 2. No Further Action | 3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE |
| 100 to < 1,000                                                       | 4. No further action                                       | 5. MONITOR           | 6. MITIGATE                                    |
| 1,000 and above                                                      | 7. MITIGATE                                                | 8. MITIGATE          | 9. MITIGATE                                    |

**No further action:** No additional actions are recommended to address human exposures.

**Identify Source(s) and Resample or Mitigate:** We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

**Monitor:** We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

**Mitigate:** We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

# Table

**Indoor Air and Sub-Slab Soil Gas**  
**December 4, 2019**  
**Table 1**

|                                                                                                                                |  |  |  |                                                         |       |     |        |                                                  |      |      |        |                                                       |      |      |        |                                                        |      |      |        |                                                       |      |      |        |                                                           |      |      |        |                                                 |      |      |        |                                                 |      |      |        |                                                    |   |      |  |
|--------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------|-------|-----|--------|--------------------------------------------------|------|------|--------|-------------------------------------------------------|------|------|--------|--------------------------------------------------------|------|------|--------|-------------------------------------------------------|------|------|--------|-----------------------------------------------------------|------|------|--------|-------------------------------------------------|------|------|--------|-------------------------------------------------|------|------|--------|----------------------------------------------------|---|------|--|
| Phoenix Environmental Laboratories, Inc.<br>587 East Middle Turnpike<br>P.O. Box 370<br>Manchester, CT 06040<br>(860) 645-1102 |  |  |  | Lab Sample Id<br>Collection Date<br>Client Id<br>Matrix |       |     |        | CE81145<br>12/4/2019<br>DRY CLEANER VP-3<br>SSSG |      |      |        | CE81146<br>12/4/2019<br>HAIR SALON IA-4<br>Indoor Air |      |      |        | CE81147<br>12/4/2019<br>DRY CLEANER IA-3<br>Indoor Air |      |      |        | CE81148<br>12/4/2019<br>TILE STORE IA-6<br>Indoor Air |      |      |        | CE81149<br>12/4/2019<br>HAIR SALON IA-4 DUP<br>Indoor Air |      |      |        | CE81150<br>12/4/2019<br>VP-6 TILE STORE<br>SSSG |      |      |        | CE81151<br>12/4/2019<br>HAIR SALON VP-4<br>SSSG |      |      |        | CE81152<br>12/4/2019<br>OUTDOOR AIR<br>Ambient Air |   |      |  |
| Project Id : CHEZ VALET                                                                                                        |  |  |  | CAS                                                     | Units | SCG | Result | RL                                               | Qual | MDL  | Result | RL                                                    | Qual | MDL  | Result | RL                                                     | Qual | MDL  | Result | RL                                                    | Qual | MDL  | Result | RL                                                        | Qual | MDL  | Result | RL                                              | Qual | MDL  | Result | RL                                              | Qual | MDL  |        |                                                    |   |      |  |
| Volatiles (TO15) By TO15                                                                                                       |  |  |  |                                                         |       |     |        |                                                  |      |      |        |                                                       |      |      |        |                                                        |      |      |        |                                                       |      |      |        |                                                           |      |      |        |                                                 |      |      |        |                                                 |      |      |        |                                                    |   |      |  |
| 1,2,4-Trimethylbenzene                                                                                                         |  |  |  | 95-63-6                                                 | ug/m3 |     | 2.52   | 1.00                                             |      | 1.00 | 1.24   | 1.00                                                  |      | 1.00 | 1.26   | 1.00                                                   |      | 1.00 | 4.62   | 1.00                                                  |      | 1.00 | 1.19   | 1.00                                                      |      | 1.00 | 1.29   | 1.00                                            |      | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| 1,3,5-Trimethylbenzene                                                                                                         |  |  |  | 108-67-8                                                | ug/m3 |     | < 1.00 | 1.00                                             | U    | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | < 1.00 | 1.00                                                   | U    | 1.00 | 1.33   | 1.00                                                  |      | 1.00 | < 1.00 | 1.00                                                      | U    | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| 4-Ethyltoluene                                                                                                                 |  |  |  | 622-96-8                                                | ug/m3 |     | 2.28   | 1.00                                             |      | 1.00 | 1.16   | 1.00                                                  |      | 1.00 | 1.19   | 1.00                                                   |      | 1.00 | 3.02   | 1.00                                                  |      | 1.00 | 1.14   | 1.00                                                      |      | 1.00 | 1.14   | 1.00                                            |      | 1.00 | 1.05   | 1.00                                            |      | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| Acetone                                                                                                                        |  |  |  | 67-64-1                                                 | ug/m3 |     | 30.9   | 1.00                                             |      | 1.00 | 37     | 1.00                                                  |      | 1.00 | 13.5   | 1.00                                                   |      | 1.00 | 51.5   | 1.00                                                  |      | 1.00 | 33.2   | 1.00                                                      |      | 1.00 | 38     | 1.00                                            |      | 1.00 | 31.8   | 1.00                                            |      | 1.00 | 3.32   | 1.00                                               |   | 1.00 |  |
| Benzene                                                                                                                        |  |  |  | 71-43-2                                                 | ug/m3 |     | < 1.00 | 1.00                                             | U    | 1.00 | 2.74   | 1.00                                                  |      | 1.00 | 1.35   | 1.00                                                   |      | 1.00 | 1.38   | 1.00                                                  |      | 1.00 | 2.83   | 1.00                                                      |      | 1.00 | 1.02   | 1.00                                            |      | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| Carbon Tetrachloride                                                                                                           |  |  |  | 56-23-5                                                 | ug/m3 |     | 0.44   | 0.20                                             |      | 0.20 | 0.55   | 0.20                                                  |      | 0.20 | 0.5    | 0.20                                                   |      | 0.20 | 0.48   | 0.20                                                  |      | 0.20 | 0.52   | 0.20                                                      |      | 0.20 | 0.38   | 0.20                                            |      | 0.20 | 0.46   | 0.20                                            |      | 0.20 | 0.44   | 0.20                                               |   | 0.20 |  |
| Chloromethane                                                                                                                  |  |  |  | 74-87-3                                                 | ug/m3 |     | < 1.00 | 1.00                                             | U    | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | 1.69   | 1.00                                                   |      | 1.00 | 1.24   | 1.00                                                  |      | 1.00 | < 1.00 | 1.00                                                      | U    | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | 1.09   | 1.00                                            |      | 1.00 | 1.15   | 1.00                                               |   | 1.00 |  |
| Cyclohexane                                                                                                                    |  |  |  | 110-82-7                                                | ug/m3 |     | < 1.00 | 1.00                                             | U    | 1.00 | 1.58   | 1.00                                                  |      | 1.00 | < 1.00 | 1.00                                                   | U    | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | 1.5    | 1.00                                                      |      | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| Dichlorodifluoromethane                                                                                                        |  |  |  | 75-71-8                                                 | ug/m3 |     | 1.74   | 1.00                                             |      | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | < 1.00 | 1.00                                                   | U    | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | < 1.00 | 1.00                                                      | U    | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | 2.8    | 1.00                                            |      | 1.00 | 1.67   | 1.00                                               |   | 1.00 |  |
| Ethanol                                                                                                                        |  |  |  | 64-17-5                                                 | ug/m3 |     | 50.7   | 1.00                                             |      | 1.00 | 1,400  | 1.00                                                  | E    | 1.00 | 99.8   | 1.00                                                   | E    | 1.00 | 348    | 1.00                                                  | E    | 1.00 | 1,190  | 1.00                                                      | E    | 1.00 | 93     | 1.00                                            | E    | 1.00 | 151    | 1.00                                            | E    | 1.00 | 9.26   | 1.00                                               |   | 1.00 |  |
| Ethyl acetate                                                                                                                  |  |  |  | 141-78-6                                                | ug/m3 |     | < 1.00 | 1.00                                             | U    | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | 4.32   | 1.00                                                   |      | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | 1.44   | 1.00                                                      |      | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| Ethylbenzene                                                                                                                   |  |  |  | 100-41-4                                                | ug/m3 |     | 3.38   | 1.00                                             |      | 1.00 | 1.05   | 1.00                                                  |      | 1.00 | < 1.00 | 1.00                                                   | U    | 1.00 | 2.66   | 1.00                                                  |      | 1.00 | 1.09   | 1.00                                                      |      | 1.00 | 1.86   | 1.00                                            |      | 1.00 | 1.97   | 1.00                                            |      | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| Heptane                                                                                                                        |  |  |  | 142-82-5                                                | ug/m3 |     | < 1.00 | 1.00                                             | U    | 1.00 | 2.36   | 1.00                                                  |      | 1.00 | 1.18   | 1.00                                                   |      | 1.00 | 1.01   | 1.00                                                  |      | 1.00 | 2.26   | 1.00                                                      |      | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| Hexane                                                                                                                         |  |  |  | 110-54-3                                                | ug/m3 |     | < 1.00 | 1.00                                             | U    | 1.00 | 4.12   | 1.00                                                  |      | 1.00 | 2.27   | 1.00                                                   |      | 1.00 | 14.4   | 1.00                                                  |      | 1.00 | 4.16   | 1.00                                                      |      | 1.00 | 5.07   | 1.00                                            |      | 1.00 | 4.19   | 1.00                                            |      | 1.00 | 1.02   | 1.00                                               |   | 1.00 |  |
| Isopropylalcohol                                                                                                               |  |  |  | 67-63-0                                                 | ug/m3 |     | 1.9    | 1.00                                             |      | 1.00 | 27.5   | 1.00                                                  |      | 1.00 | 11.3   | 1.00                                                   |      | 1.00 | 12.5   | 1.00                                                  |      | 1.00 | 26.8   | 1.00                                                      |      | 1.00 | 1.7    | 1.00                                            |      | 1.00 | 4.52   | 1.00                                            |      | 1.00 | 1.28   | 1.00                                               |   | 1.00 |  |
| Isopropylbenzene                                                                                                               |  |  |  | 98-82-8                                                 | ug/m3 |     | 18.7   | 1.00                                             |      | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | < 1.00 | 1.00                                                   | U    | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | < 1.00 | 1.00                                                      | U    | 1.00 | 7.86   | 1.00                                            |      | 1.00 | 5.16   | 1.00                                            |      | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| m,p-Xylene                                                                                                                     |  |  |  | 179601-23-1                                             | ug/m3 |     | 13     | 1.00                                             |      | 1.00 | 4.06   | 1.00                                                  |      | 1.00 | 1.28   | 1.00                                                   |      | 1.00 | 9.85   | 1.00                                                  |      | 1.00 | 4.1    | 1.00                                                      |      | 1.00 | 7.03   | 1.00                                            |      | 1.00 | 7.12   | 1.00                                            |      | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| Methyl Ethyl Ketone                                                                                                            |  |  |  | 78-93-3                                                 | ug/m3 |     | 1.28   | 1.00                                             |      | 1.00 | 1.18   | 1.00                                                  |      | 1.00 | 1.21   | 1.00                                                   |      | 1.00 | 18.6   | 1.00                                                  |      | 1.00 | 1.05   | 1.00                                                      |      | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | 4.24   | 1.00                                            |      | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| Methylene Chloride                                                                                                             |  |  |  | 75-09-2                                                 | ug/m3 |     | < 3.00 | 3.00                                             | U    | 3.00 | < 3.00 | 3.00                                                  | U    | 3.00 | < 3.00 | 3.00                                                   | U    | 3.00 | 5.45   | 3.00                                                  |      | 3.00 | < 3.00 | 3.00                                                      | U    | 3.00 | < 3.00 | 3.00                                            | U    | 3.00 | 7.01   | 3.00                                            |      | 3.00 | < 3.00 | 3.00                                               | U | 3.00 |  |
| o-Xylene                                                                                                                       |  |  |  | 95-47-6                                                 | ug/m3 |     | 6.73   | 1.00                                             |      | 1.00 | 1.11   | 1.00                                                  |      | 1.00 | < 1.00 | 1.00                                                   | U    | 1.00 | 3.69   | 1.00                                                  |      | 1.00 | 1.11   | 1.00                                                      |      | 1.00 | 2.89   | 1.00                                            |      | 1.00 | 2.57   | 1.00                                            |      | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| Styrene                                                                                                                        |  |  |  | 100-42-5                                                | ug/m3 |     | 6.3    | 1.00                                             |      | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | < 1.00 | 1.00                                                   | U    | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | < 1.00 | 1.00                                                      | U    | 1.00 | 2.63   | 1.00                                            |      | 1.00 | 2.26   | 1.00                                            |      | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| Tetrachloroethene                                                                                                              |  |  |  | 127-18-4                                                | ug/m3 | 30  | 207    | 0.25                                             |      | 0.25 | 1.75   | 0.25                                                  |      | 0.25 | 6.39   | 0.25                                                   |      | 0.25 | 1.99   | 0.25                                                  |      | 0.25 | 1.71   | 0.25                                                      |      | 0.25 | 165    | 0.25                                            |      | 0.25 | 12.6   | 0.25                                            |      | 0.25 | 0.81   | 0.25                                               |   | 0.25 |  |
| Tetrahydrofuran                                                                                                                |  |  |  | 109-99-9                                                | ug/m3 |     | < 1.00 | 1.00                                             | U    | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | < 1.00 | 1.00                                                   | U    | 1.00 | 22.9   | 1.00                                                  |      | 1.00 | < 1.00 | 1.00                                                      | U    | 1.00 | < 1.00 | 1.00                                            | U    | 1.00 | 5.69   | 1.00                                            |      | 1.00 | < 1.00 | 1.00                                               | U | 1.00 |  |
| Toluene                                                                                                                        |  |  |  | 108-88-3                                                | ug/m3 |     | 24.3   | 1.00                                             |      | 1.00 | 10.7   | 1.00                                                  |      | 1.00 | 4.14   | 1.00                                                   |      | 1.00 | 11.3   | 1.00                                                  |      | 1.00 | 10.7   | 1.00                                                      |      | 1.00 | 14.6   | 1.00                                            |      | 1.00 | 15.4   | 1.00                                            |      | 1.00 | 1.52   | 1.00                                               |   | 1.00 |  |
| Trichloroethene                                                                                                                |  |  |  | 79-01-6                                                 | ug/m3 | 2   | 4.05   | 0.20                                             |      | 0.20 | < 0.20 | 0.20                                                  | U    | 0.20 | 31     | 0.20                                                   |      | 0.20 | 1.43   | 0.20                                                  |      | 0.20 | < 0.20 | 0.20                                                      | U    | 0.20 | 0.4    | 0.20                                            |      | 0.20 | 0.65   | 0.20                                            |      | 0.20 | < 0.20 | 0.20                                               | U | 0.20 |  |
| Trichlorofluoromethane                                                                                                         |  |  |  | 75-69-4                                                 | ug/m3 |     | 1.53   | 1.00                                             |      | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | < 1.00 | 1.00                                                   | U    | 1.00 | < 1.00 | 1.00                                                  | U    | 1.00 | < 1.00 | 1.00                                                      | U    | 1.00 | 1.43   | 1.00                                            |      | 1.00 | 1.53   | 1.00                                            |      | 1.00 | 1.08   | 1.00                                               |   | 1.00 |  |

**Qualifiers**

U The compound was analyzed for but not detected at or above the MDL.  
The number immediately preceding the "U" represents the PQL reporting level  
corrected for percent solids, weight and/or volume calculations, and dilution factors.

E Estimated Value

1.53 Compound detected at indicated result

31 Compound Detected in Indoor Air at > NYSDOH SCG

SCG Standard Criteria and Guidance Value - NYSDOH "Guidance for Evaluating Soil and Vapor Intrusion in the State of New York", May 2017 revision

SSSG Sub-Slab Soil Gas

Phoenix Environmental Laboratories, Inc.  
Category B Data Package



Wednesday, December 11, 2019

Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

Project ID: CHEZ VALET  
SDG ID: GCE81145  
Sample ID#s: CE81145 - CE81152

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## SDG Comments

December 11, 2019

SDG I.D.: GCE81145

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Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.



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## Sample Id Cross Reference

December 11, 2019

SDG I.D.: GCE81145

Project ID: CHEZ VALET

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| Client Id           | Lab Id  | Matrix |
|---------------------|---------|--------|
| DRY CLEANER VP-3    | CE81145 | AIR    |
| HAIR SALON IA-4     | CE81146 | AIR    |
| DRY CLEANER IA-3    | CE81147 | AIR    |
| TILE STORE IA-6     | CE81148 | AIR    |
| HAIR SALON IA-4 DUP | CE81149 | AIR    |
| VP-6 TILE STORE     | CE81150 | AIR    |
| HAIR SALON VP-4     | CE81151 | AIR    |
| OUTDOOR AIR         | CE81152 | AIR    |



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# Analysis Report

December 11, 2019

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

## Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 12854

## Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

Date Time  
12/04/19 14:05  
12/05/19 15:34

## Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81145

Project ID: CHEZ VALET  
Client ID: DRY CLEANER VP-3

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | 0.512          | 0.204      | 0.204       | 2.52            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Ethyltoluene                | 0.465          | 0.204      | 0.204       | 2.28            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Acetone                       | 13.0           | 0.421      | 0.421       | 30.9            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Benzene                       | ND             | 0.313      | 0.313       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |



| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.070          | 0.032      | 0.032       | 0.44            | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloromethane                            | ND             | 0.485      | 0.485       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | 0.291       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Dichlorodifluoromethane                  | 0.352          | 0.202      | 0.202       | 1.74            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Ethanol                                  | 26.9           | 0.531      | 0.531       | 50.7            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Ethyl acetate                            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Ethylbenzene                             | 0.778          | 0.230      | 0.230       | 3.38            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Heptane                                  | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Hexane                                   | ND             | 0.284      | 0.284       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Isopropylalcohol                         | 0.774          | 0.407      | 0.407       | 1.90            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Isopropylbenzene                         | 3.81           | 0.204      | 0.204       | 18.7            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| m,p-Xylene                               | 3.00           | 0.230      | 0.230       | 13.0            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | 0.435          | 0.339      | 0.339       | 1.28            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | 0.864       | ND              | 3.00        | 3.00        | 12/09/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| o-Xylene                                 | 1.55           | 0.230      | 0.230       | 6.73            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Styrene                                  | 1.48           | 0.235      | 0.235       | 6.30            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Tetrachloroethene                        | 30.6           | 0.037      | 0.037       | 207             | 0.25        | 0.25        | 12/09/19  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Toluene                                  | 6.45           | 0.266      | 0.266       | 24.3            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trichloroethene                          | 0.755          | 0.037      | 0.037       | 4.05            | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| Trichlorofluoromethane                   | 0.273          | 0.178      | 0.178       | 1.53            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 94             | %          | %           | 94              | %           | %           | 12/09/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 117            | %          | %           | 117             | %           | %           | 12/09/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 112            | %          | %           | 112             | %           | %           | 12/09/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 109            | %          | %           | 109             | %           | %           | 12/09/19  | KCA | 1        |

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

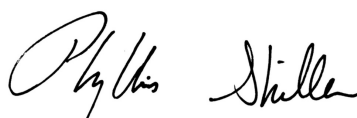
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 11, 2019**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

December 11, 2019

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

## Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 28578

## Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

Date Time  
12/04/19 14:30  
12/05/19 15:34

## Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81146

Project ID: CHEZ VALET  
Client ID: HAIR SALON IA-4

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | 0.253          | 0.204      | 0.204       | 1.24            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Ethyltoluene                | 0.237          | 0.204      | 0.204       | 1.16            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acetone                       | 15.6           | 0.421      | 0.421       | 37.0            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzene                       | 0.859          | 0.313      | 0.313       | 2.74            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.087          | 0.032      | 0.032       | 0.55            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloromethane                            | ND             | 0.485      | 0.485       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cyclohexane                              | 0.459          | 0.291      | 0.291       | 1.58            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dichlorodifluoromethane                  | ND             | 0.202      | 0.202       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethanol                                  | 745            | E 0.531    | 0.531       | 1400            | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Ethyl acetate                            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Ethylbenzene                             | 0.242          | 0.230      | 0.230       | 1.05            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Heptane                                  | 0.575          | 0.244      | 0.244       | 2.36            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexane                                   | 1.17           | 0.284      | 0.284       | 4.12            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylalcohol                         | 11.2           | 0.407      | 0.407       | 27.5            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylbenzene                         | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| m,p-Xylene                               | 0.935          | 0.230      | 0.230       | 4.06            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | 0.402          | 0.339      | 0.339       | 1.18            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | 0.864       | ND              | 3.00        | 3.00        | 12/06/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| o-Xylene                                 | 0.256          | 0.230      | 0.230       | 1.11            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Styrene                                  | ND             | 0.235      | 0.235       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Tetrachloroethene                        | 0.258          | 0.037      | 0.037       | 1.75            | 0.25        | 0.25        | 12/06/19  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Toluene                                  | 2.85           | 0.266      | 0.266       | 10.7            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichloroethene                          | ND             | 0.037      | 0.037       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Trichlorofluoromethane                   | ND             | 0.178      | 0.178       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 97             | %          | %           | 97              | %           | %           | 12/06/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 108            | %          | %           | 108             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 101            | %          | %           | 101             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 111            | %          | %           | 111             | %           | %           | 12/06/19  | KCA | 1        |

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 11, 2019**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
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## Analysis Report

December 11, 2019

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

### Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 28583

### Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

Date Time  
12/04/19 14:10  
12/05/19 15:34

### Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81147

Project ID: CHEZ VALET  
Client ID: DRY CLEANER IA-3

| Parameter                      | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|--------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b><u>Volatiles (TO15)</u></b> |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane      | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,1-Trichloroethane          | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane      | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2-Trichloroethane          | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethane             | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethene             | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene         | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene         | 0.256          | 0.204      | 0.204       | 1.26            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)         | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorobenzene            | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichloroethane             | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-dichloropropane            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane  | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene         | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Butadiene                  | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Dichlorobenzene            | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dichlorobenzene            | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dioxane                    | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 2-Hexanone(MBK)                | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Ethyltoluene                 | 0.242          | 0.204      | 0.204       | 1.19            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Isopropyltoluene             | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)     | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acetone                        | 5.67           | 0.421      | 0.421       | 13.5            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acrylonitrile                  | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzene                        | 0.423          | 0.313      | 0.313       | 1.35            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzyl chloride                | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.079          | 0.032      | 0.032       | 0.50            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloromethane                            | 0.817          | 0.485      | 0.485       | 1.69            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | 0.291       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dichlorodifluoromethane                  | ND             | 0.202      | 0.202       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethanol                                  | 53.0           | E 0.531    | 0.531       | 100             | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Ethyl acetate                            | 1.20           | 0.278      | 0.278       | 4.32            | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Ethylbenzene                             | ND             | 0.230      | 0.230       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Heptane                                  | 0.288          | 0.244      | 0.244       | 1.18            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexane                                   | 0.645          | 0.284      | 0.284       | 2.27            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylalcohol                         | 4.61           | 0.407      | 0.407       | 11.3            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylbenzene                         | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| m,p-Xylene                               | 0.294          | 0.230      | 0.230       | 1.28            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | 0.412          | 0.339      | 0.339       | 1.21            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | 0.864       | ND              | 3.00        | 3.00        | 12/06/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| o-Xylene                                 | ND             | 0.230      | 0.230       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Styrene                                  | ND             | 0.235      | 0.235       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Tetrachloroethene                        | 0.943          | 0.037      | 0.037       | 6.39            | 0.25        | 0.25        | 12/06/19  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Toluene                                  | 1.10           | 0.266      | 0.266       | 4.14            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichloroethene                          | 5.77           | 0.037      | 0.037       | 31.0            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Trichlorofluoromethane                   | ND             | 0.178      | 0.178       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 99             | %          | %           | 99              | %           | %           | 12/06/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 98             | %          | %           | 98              | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 106            | %          | %           | 106             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 113            | %          | %           | 113             | %           | %           | 12/06/19  | KCA | 1        |

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 11, 2019**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**





Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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# Analysis Report

December 11, 2019

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

## Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 480

## Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

Date Time  
12/04/19 14:15  
12/05/19 15:34

## Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81148

Project ID: CHEZ VALET  
Client ID: TILE STORE IA-6

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | 0.941          | 0.204      | 0.204       | 4.62            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | 0.270          | 0.204      | 0.204       | 1.33            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Ethyltoluene                | 0.615          | 0.204      | 0.204       | 3.02            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acetone                       | 21.7           | 0.421      | 0.421       | 51.5            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzene                       | 0.432          | 0.313      | 0.313       | 1.38            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.077          | 0.032      | 0.032       | 0.48            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloromethane                            | 0.599          | 0.485      | 0.485       | 1.24            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | 0.291       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dichlorodifluoromethane                  | ND             | 0.202      | 0.202       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethanol                                  | 185            | E 0.531    | 0.531       | 348             | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Ethyl acetate                            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Ethylbenzene                             | 0.614          | 0.230      | 0.230       | 2.66            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Heptane                                  | 0.246          | 0.244      | 0.244       | 1.01            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexane                                   | 4.08           | 0.284      | 0.284       | 14.4            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylalcohol                         | 5.10           | 0.407      | 0.407       | 12.5            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylbenzene                         | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| m,p-Xylene                               | 2.27           | 0.230      | 0.230       | 9.9             | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | 6.32           | 0.339      | 0.339       | 18.6            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methylene Chloride                       | 1.57           | 0.864      | 0.864       | 5.45            | 3.00        | 3.00        | 12/06/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| o-Xylene                                 | 0.850          | 0.230      | 0.230       | 3.69            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Styrene                                  | ND             | 0.235      | 0.235       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Tetrachloroethene                        | 0.294          | 0.037      | 0.037       | 1.99            | 0.25        | 0.25        | 12/06/19  | KCA | 1        |
| Tetrahydrofuran                          | 7.76           | 0.339      | 0.339       | 22.9            | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Toluene                                  | 3.01           | 0.266      | 0.266       | 11.3            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichloroethene                          | 0.267          | 0.037      | 0.037       | 1.43            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Trichlorofluoromethane                   | ND             | 0.178      | 0.178       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 98             | %          | %           | 98              | %           | %           | 12/06/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 124            | %          | %           | 124             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 123            | %          | %           | 123             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 126            | %          | %           | 126             | %           | %           | 12/06/19  | KCA | 1        |

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 11, 2019**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



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# Analysis Report

December 11, 2019

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

## Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 492

## Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

Date Time  
12/04/19 14:30  
12/05/19 15:34

## Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81149

Project ID: CHEZ VALET  
Client ID: HAIR SALON IA-4 DUP

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | 0.242          | 0.204      | 0.204       | 1.19            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Ethyltoluene                | 0.233          | 0.204      | 0.204       | 1.14            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acetone                       | 14.0           | 0.421      | 0.421       | 33.2            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzene                       | 0.886          | 0.313      | 0.313       | 2.83            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.082          | 0.032      | 0.032       | 0.52            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloromethane                            | ND             | 0.485      | 0.485       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cyclohexane                              | 0.437          | 0.291      | 0.291       | 1.50            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dichlorodifluoromethane                  | ND             | 0.202      | 0.202       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethanol                                  | 632            | E 0.531    | 0.531       | 1190            | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Ethyl acetate                            | 0.400          | 0.278      | 0.278       | 1.44            | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Ethylbenzene                             | 0.252          | 0.230      | 0.230       | 1.09            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Heptane                                  | 0.551          | 0.244      | 0.244       | 2.26            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexane                                   | 1.18           | 0.284      | 0.284       | 4.16            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylalcohol                         | 10.9           | 0.407      | 0.407       | 26.8            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylbenzene                         | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| m,p-Xylene                               | 0.945          | 0.230      | 0.230       | 4.10            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | 0.357          | 0.339      | 0.339       | 1.05            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | 0.864       | ND              | 3.00        | 3.00        | 12/06/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| o-Xylene                                 | 0.255          | 0.230      | 0.230       | 1.11            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Styrene                                  | ND             | 0.235      | 0.235       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Tetrachloroethene                        | 0.252          | 0.037      | 0.037       | 1.71            | 0.25        | 0.25        | 12/06/19  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Toluene                                  | 2.85           | 0.266      | 0.266       | 10.7            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichloroethene                          | ND             | 0.037      | 0.037       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Trichlorofluoromethane                   | ND             | 0.178      | 0.178       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 98             | %          | %           | 98              | %           | %           | 12/06/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 129            | %          | %           | 129             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 120            | %          | %           | 120             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 128            | %          | %           | 128             | %           | %           | 12/06/19  | KCA | 1        |

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 11, 2019**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

December 11, 2019

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

## Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 468

## Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

Date Time  
12/04/19 14:20  
12/05/19 15:34

## Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81150

Project ID: CHEZ VALET  
Client ID: VP-6 TILE STORE

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | 0.263          | 0.204      | 0.204       | 1.29            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Ethyltoluene                | 0.232          | 0.204      | 0.204       | 1.14            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Acetone                       | 16.0           | 0.421      | 0.421       | 38.0            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Benzene                       | 0.320          | 0.313      | 0.313       | 1.02            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.060          | 0.032      | 0.032       | 0.38            | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloromethane                            | ND             | 0.485      | 0.485       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | 0.291       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Dichlorodifluoromethane                  | ND             | 0.202      | 0.202       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Ethanol                                  | 49.4           | E 0.531    | 0.531       | 93.0            | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| Ethyl acetate                            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| Ethylbenzene                             | 0.428          | 0.230      | 0.230       | 1.86            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Heptane                                  | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Hexane                                   | 1.44           | 0.284      | 0.284       | 5.07            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Isopropylalcohol                         | 0.694          | 0.407      | 0.407       | 1.70            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Isopropylbenzene                         | 1.60           | 0.204      | 0.204       | 7.86            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| m,p-Xylene                               | 1.62           | 0.230      | 0.230       | 7.03            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | 0.864       | ND              | 3.00        | 3.00        | 12/09/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| o-Xylene                                 | 0.666          | 0.230      | 0.230       | 2.89            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| Styrene                                  | 0.617          | 0.235      | 0.235       | 2.63            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Tetrachloroethene                        | 24.3           | 0.037      | 0.037       | 165             | 0.25        | 0.25        | 12/09/19  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| Toluene                                  | 3.87           | 0.266      | 0.266       | 14.6            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trichloroethene                          | 0.075          | 0.037      | 0.037       | 0.40            | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| Trichlorofluoromethane                   | 0.255          | 0.178      | 0.178       | 1.43            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 97             | %          | %           | 97              | %           | %           | 12/09/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 128            | %          | %           | 128             | %           | %           | 12/09/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 119            | %          | %           | 119             | %           | %           | 12/09/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 119            | %          | %           | 119             | %           | %           | 12/09/19  | KCA | 1        |



| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

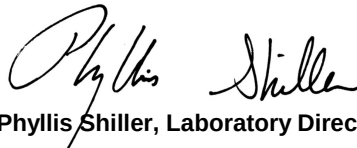
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

E = Estimated value quantitated above calibration range for this compound.

The canister was received under no vacuum, therefore sample results may not be representative.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 11, 2019**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
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Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Report

December 11, 2019

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

### Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 28581

### Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

Date Time  
12/04/19 14:25  
12/05/19 15:34

### Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81151

Project ID: CHEZ VALET  
Client ID: HAIR SALON VP-4

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Ethyltoluene                | 0.214          | 0.204      | 0.204       | 1.05            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Acetone                       | 13.4           | 0.421      | 0.421       | 31.8            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Benzene                       | ND             | 0.313      | 0.313       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.073          | 0.032      | 0.032       | 0.46            | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloromethane                            | 0.529          | 0.485      | 0.485       | 1.09            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | 0.291       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Dichlorodifluoromethane                  | 0.566          | 0.202      | 0.202       | 2.80            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Ethanol                                  | 80.2           | E 0.531    | 0.531       | 151             | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| Ethyl acetate                            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| Ethylbenzene                             | 0.453          | 0.230      | 0.230       | 1.97            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Heptane                                  | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Hexane                                   | 1.19           | 0.284      | 0.284       | 4.19            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Isopropylalcohol                         | 1.84           | 0.407      | 0.407       | 4.52            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Isopropylbenzene                         | 1.05           | 0.204      | 0.204       | 5.16            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| m,p-Xylene                               | 1.64           | 0.230      | 0.230       | 7.12            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | 1.44           | 0.339      | 0.339       | 4.24            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methylene Chloride                       | 2.02           | 0.864      | 0.864       | 7.01            | 3.00        | 3.00        | 12/09/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| o-Xylene                                 | 0.592          | 0.230      | 0.230       | 2.57            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| Styrene                                  | 0.531          | 0.235      | 0.235       | 2.26            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Tetrachloroethene                        | 1.86           | 0.037      | 0.037       | 12.6            | 0.25        | 0.25        | 12/09/19  | KCA | 1        |
| Tetrahydrofuran                          | 1.93           | 0.339      | 0.339       | 5.69            | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| Toluene                                  | 4.10           | 0.266      | 0.266       | 15.4            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trichloroethene                          | 0.121          | 0.037      | 0.037       | 0.65            | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| Trichlorofluoromethane                   | 0.272          | 0.178      | 0.178       | 1.53            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 93             | %          | %           | 93              | %           | %           | 12/09/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 131            | %          | %           | 131             | %           | %           | 12/09/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 123            | %          | %           | 123             | %           | %           | 12/09/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 127            | %          | %           | 127             | %           | %           | 12/09/19  | KCA | 1        |

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

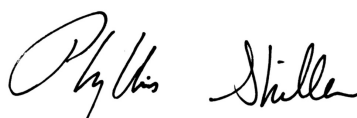
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 11, 2019**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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# Analysis Report

December 11, 2019

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

## Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 21368

## Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

Date Time  
12/04/19 14:00  
12/05/19 15:34

Project ID: CHEZ VALET  
Client ID: OUTDOOR AIR

## Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81152

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Ethyltoluene                | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acetone                       | 1.40           | 0.421      | 0.421       | 3.32            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzene                       | ND             | 0.313      | 0.313       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.070          | 0.032      | 0.032       | 0.44            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloromethane                            | 0.557          | 0.485      | 0.485       | 1.15            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | 0.291       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dichlorodifluoromethane                  | 0.337          | 0.202      | 0.202       | 1.67            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethanol                                  | 4.92           | 0.531      | 0.531       | 9.26            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethyl acetate                            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethylbenzene                             | ND             | 0.230      | 0.230       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Heptane                                  | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexane                                   | 0.289          | 0.284      | 0.284       | 1.02            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylalcohol                         | 0.520          | 0.407      | 0.407       | 1.28            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylbenzene                         | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| m,p-Xylene                               | ND             | 0.230      | 0.230       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | 0.864       | ND              | 3.00        | 3.00        | 12/06/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| o-Xylene                                 | ND             | 0.230      | 0.230       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Styrene                                  | ND             | 0.235      | 0.235       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Tetrachloroethene                        | 0.119          | 0.037      | 0.037       | 0.81            | 0.25        | 0.25        | 12/06/19  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Toluene                                  | 0.403          | 0.266      | 0.266       | 1.52            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichloroethene                          | ND             | 0.037      | 0.037       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Trichlorofluoromethane                   | 0.193          | 0.178      | 0.178       | 1.08            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 95             | %          | %           | 95              | %           | %           | 12/06/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 138            | %          | %           | 138             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 138            | %          | %           | 138             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 132            | %          | %           | 132             | %           | %           | 12/06/19  | KCA | 1        |

Project ID: CHEZ VALET  
Client ID: OUTDOOR AIR

Phoenix I.D.: CE81152

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 11, 2019**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Canister Sampling Information

December 11, 2019

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

Location Code: CEG

SDG I.D.: GCE81145

Project ID: CHEZ VALET

| Client Id          | Lab Id  | Canister |      | Reg. Id | Chk Out Date | Laboratory |       |          |         |          | Field    |        |                     |                   |
|--------------------|---------|----------|------|---------|--------------|------------|-------|----------|---------|----------|----------|--------|---------------------|-------------------|
|                    |         | Id       | Type |         |              | Out Hg     | In Hg | Out Flow | In Flow | Flow RPD | Start Hg | End Hg | Sampling Start Date | Sampling End Date |
| DRY CLEANER VP-3   | CE81145 | 12854    | 6.0L | 5659    | 12/05/19     | -30        | -5    | 10.8     | 11.7    | 8.0      | -29      | -6     | 12/04/19 6:05       | 12/04/19 14:55    |
| HAIR SALON IA-4    | CE81146 | 28578    | 6.0L | 6986    | 12/05/19     | -30        | -10   | 10.8     | 12.7    | 16.2     | -26      | -6     | 12/04/19 6:30       | 12/04/19 14:30    |
| DRY CLEANER IA-3   | CE81147 | 28583    | 6.0L | 5623    | 12/05/19     | -30        | -6    | 10.8     | 11      | 1.8      | -29      | -5     | 12/04/19 6:15       | 12/04/19 14:15    |
| TILE STORE IA-6    | CE81148 | 480      | 6.0L | 7029    | 12/05/19     | -30        | -8    | 10.8     | 10.5    | 2.8      | -30      | -7     | 12/04/19 6:15       | 12/04/19 14:15    |
| HAIR SALON IA-4 DU | CE81149 | 492      | 6.0L | 6994    | 12/05/19     | -30        | -10   | 10.8     | 10.9    | 0.9      | -27      | -6     | 12/04/19 6:30       | 12/04/19 2:30     |
| VP-6 TILE STORE    | CE81150 | 468      | 6.0L | 7045    | 12/05/19     | -30        | 0     | 10.8     | 10.9    | 0.9      | -28      | -2     | 12/04/19 18:20      | 12/04/19 14:20    |
| HAIR SALON VP-4    | CE81151 | 28581    | 6.0L | 7019    | 12/05/19     | -30        | -9    | 10.8     | 11.4    | 5.4      | -30      | -7     | 12/04/19 6:25       | 12/04/19 2:25     |
| OUTDOOR AIR        | CE81152 | 21369    | 6.0L | 7020    | 12/05/19     | -30        | -4    | 10.8     | 11      | 1.8      | -30      | -6     | 12/04/19 6:00       | 12/04/19 14:00    |



Wednesday, December 11, 2019

Criteria: None  
State: NY

Sample Criteria Exceedances Report  
GCE81145 - CEG

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL<br>Criteria | Analysis<br>Units |
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|

\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.





587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
Telephone: 860.645.1102 • Fax: 860.645.0823

## NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

Cody Ehlers Group  
CHEZ VALET

GCE81145

Ver 1

# Data Package Table of Contents

|                                           |    |
|-------------------------------------------|----|
| GCE81145 Analytical Report                | 4  |
| Cover Letter                              | 4  |
| Project Summary                           | 5  |
| SDG Comments                              | 8  |
| Sample Id Cross Reference                 | 9  |
| Analytical Report                         | 10 |
| Canister Sampling Information             | 34 |
| QA/QC Report                              | 35 |
| Sample Criteria Audit Report              | 39 |
| COC-GCE81145.pdf                          | 40 |
| GCE81145 Air V1                           | 41 |
| Organic Flags                             | 42 |
| Non-Conformance Summary                   | 43 |
| Monitoring Compound Recovery (Form 2)     | 45 |
| CE81147 - Batch 509314                    | 45 |
| CE81151 - Batch 509344                    | 46 |
| Spike Recovery (Form 3)                   | 47 |
| CE81147 LCS                               | 47 |
| CE81151 LCS                               | 49 |
| Method Blank Summary (Form 4)             | 51 |
| CE81147 BLK - Batch 509314 12/06/19 18:05 | 51 |
| CE81151 BLK - Batch 509344 12/09/19 02:32 | 52 |
| Tune Summary (Form 5)                     | 53 |
| CHEM24 - 1203_07.D                        | 53 |
| CHEM24 - 1206_01.D                        | 55 |
| CHEM24 - 1207_02.D                        | 57 |
| CHEM24 - 1208_02.D                        | 59 |
| Internal Standard (Form 8)                | 61 |
| CHEM24 - 12/03/19 22:53                   | 61 |
| CHEM24 - 12/06/19 15:09                   | 63 |
| CHEM24 - 12/07/19 22:22                   | 65 |
| CHEM24 - 12/08/19 23:01                   | 67 |
| Analysis Data Sheet (Form 1)              | 69 |
| CE81145 / DRY CLEANER VP-3                | 69 |
| CE81146 / HAIR SALON IA-4                 | 84 |
| CE81147 / DRY CLEANER IA-3                | 99 |

|                                         |     |
|-----------------------------------------|-----|
| CE81148 / TILE STORE IA-6               | 114 |
| CE81149 / HAIR SALON IA-4 DUP           | 131 |
| CE81150 / VP-6 TILE STORE               | 146 |
| CE81151 / HAIR SALON VP-4               | 161 |
| CE81152 / OUTDOOR AIR                   | 178 |
| Initial Calibration Summary (Form 6)    | 189 |
| CHEM24                                  | 189 |
| CHEM24 - 12/03/19                       | 195 |
| CHEM24 - 12/07/19                       | 244 |
| Continuing Calibration Summary (Form 7) | 293 |
| CHEM24 - 12/06/19 15:09                 | 293 |
| CHEM24 - 12/08/19 23:01                 | 303 |
| Analysis Data Sheet QC (Form 1)         | 313 |
| CE81147 LCS                             | 313 |
| CE81147 BLANK                           | 319 |
| CE81147 DUP                             | 323 |
| CE81151 LCS                             | 338 |
| CE81151 BLANK                           | 344 |
| CE81151 DUP                             | 348 |
| Canister Cleaning Batch# 1671           | 365 |
| Canister Cleaning Batch# 1672           | 371 |
| Injection Log                           | 377 |
| Injection Log                           | 377 |
| Injection Log - CHEM24 12/30/99         | 379 |
| Injection Log - CHEM24 11/10/01         | 380 |
| Injection Log - CHEM24 12/08/01         | 383 |



Monday, January 06, 2020

Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

Project ID: CHEZ VALET  
SDG ID: GCE81145  
Sample ID#s: CE81145 - CE81152

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



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**NY ANALYTICAL SERVICES PROTOCOL  
DATA PACKAGE**

**Client: Cody Ehlers Group**  
**Project: CHEZ VALET**  
**Laboratory Project: GCE81145**



**Environmental Laboratories, Inc.**  
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# **NY Analytical Services Protocol Format**

**January 06, 2020**

**SDG I.D.: GCE81145**

**Cody Ehlers Group CHEZ VALET**

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## **Methodology Summary**

### **Volatiles in Air**

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15, Second Edition, U. S. Environmental Protection Agency, January 1999.





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## NY Analytical Services Protocol Format

January 06, 2020

SDG I.D.: GCE81145

Cody Ehlers Group CHEZ VALET

---

### Laboratory Chronicle

| Sample  | Analysis         | Collection Date | Prep Date | Analysis Date | Analyst | Hold Time Met |
|---------|------------------|-----------------|-----------|---------------|---------|---------------|
| CE81145 | Volatiles (TO15) | 12/04/19        | 12/09/19  | 12/09/19      | KCA     | Y             |
| CE81146 | Volatiles (TO15) | 12/04/19        | 12/06/19  | 12/06/19      | KCA     | Y             |
| CE81147 | Volatiles (TO15) | 12/04/19        | 12/06/19  | 12/06/19      | KCA     | Y             |
| CE81148 | Volatiles (TO15) | 12/04/19        | 12/06/19  | 12/06/19      | KCA     | Y             |
| CE81149 | Volatiles (TO15) | 12/04/19        | 12/06/19  | 12/06/19      | KCA     | Y             |
| CE81150 | Volatiles (TO15) | 12/04/19        | 12/09/19  | 12/09/19      | KCA     | Y             |
| CE81151 | Volatiles (TO15) | 12/04/19        | 12/09/19  | 12/09/19      | KCA     | Y             |
| CE81152 | Volatiles (TO15) | 12/04/19        | 12/06/19  | 12/06/19      | KCA     | Y             |



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## SDG Comments

January 06, 2020

SDG I.D.: GCE81145

---

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.



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## Sample Id Cross Reference

January 06, 2020

SDG I.D.: GCE81145

Project ID: CHEZ VALET

---

| Client Id           | Lab Id  | Matrix |
|---------------------|---------|--------|
| DRY CLEANER VP-3    | CE81145 | AIR    |
| HAIR SALON IA-4     | CE81146 | AIR    |
| DRY CLEANER IA-3    | CE81147 | AIR    |
| TILE STORE IA-6     | CE81148 | AIR    |
| HAIR SALON IA-4 DUP | CE81149 | AIR    |
| VP-6 TILE STORE     | CE81150 | AIR    |
| HAIR SALON VP-4     | CE81151 | AIR    |
| OUTDOOR AIR         | CE81152 | AIR    |



Environmental Laboratories, Inc.  
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## Analysis Report

January 06, 2020

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

### Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 12854

### Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

### Date

12/04/19 14:05  
12/05/19 15:34

### Time

Project ID: CHEZ VALET  
Client ID: DRY CLEANER VP-3

### Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81145

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | 0.512          | 0.204      | 0.204       | 2.52            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Ethyltoluene                | 0.465          | 0.204      | 0.204       | 2.28            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Acetone                       | 13.0           | 0.421      | 0.421       | 30.9            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Benzene                       | ND             | 0.313      | 0.313       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.070          | 0.032      | 0.032       | 0.44            | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloromethane                            | ND             | 0.485      | 0.485       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | 0.291       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Dichlorodifluoromethane                  | 0.352          | 0.202      | 0.202       | 1.74            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Ethanol                                  | 26.9           | 0.531      | 0.531       | 50.7            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Ethyl acetate                            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Ethylbenzene                             | 0.778          | 0.230      | 0.230       | 3.38            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Heptane                                  | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Hexane                                   | ND             | 0.284      | 0.284       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Isopropylalcohol                         | 0.774          | 0.407      | 0.407       | 1.90            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Isopropylbenzene                         | 3.81           | 0.204      | 0.204       | 18.7            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| m,p-Xylene                               | 3.00           | 0.230      | 0.230       | 13.0            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | 0.435          | 0.339      | 0.339       | 1.28            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | 0.864       | ND              | 3.00        | 3.00        | 12/09/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| o-Xylene                                 | 1.55           | 0.230      | 0.230       | 6.73            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Styrene                                  | 1.48           | 0.235      | 0.235       | 6.30            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Tetrachloroethene                        | 30.6           | 0.037      | 0.037       | 207             | 0.25        | 0.25        | 12/09/19  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Toluene                                  | 6.45           | 0.266      | 0.266       | 24.3            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trichloroethene                          | 0.755          | 0.037      | 0.037       | 4.05            | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| Trichlorofluoromethane                   | 0.273          | 0.178      | 0.178       | 1.53            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| <b><u>QA/QC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 94             | %          | %           | 94              | %           | %           | 12/09/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 117            | %          | %           | 117             | %           | %           | 12/09/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 112            | %          | %           | 112             | %           | %           | 12/09/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 109            | %          | %           | 109             | %           | %           | 12/09/19  | KCA | 1        |

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

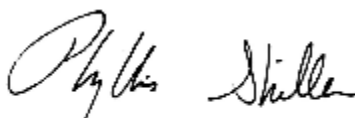
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 06, 2020**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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## Analysis Report

January 06, 2020

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

### Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 28578

### Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

### Date

12/04/19 14:30  
12/05/19 15:34

### Time

Project ID: CHEZ VALET  
Client ID: HAIR SALON IA-4

### Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81146

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | 0.253          | 0.204      | 0.204       | 1.24            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Ethyltoluene                | 0.237          | 0.204      | 0.204       | 1.16            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acetone                       | 15.6           | 0.421      | 0.421       | 37.0            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzene                       | 0.859          | 0.313      | 0.313       | 2.74            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.087          | 0.032      | 0.032       | 0.55            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloromethane                            | ND             | 0.485      | 0.485       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cyclohexane                              | 0.459          | 0.291      | 0.291       | 1.58            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dichlorodifluoromethane                  | ND             | 0.202      | 0.202       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethanol                                  | 745            | E 0.531    | 0.531       | 1400            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethyl acetate                            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethylbenzene                             | 0.242          | 0.230      | 0.230       | 1.05            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Heptane                                  | 0.575          | 0.244      | 0.244       | 2.36            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexane                                   | 1.17           | 0.284      | 0.284       | 4.12            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylalcohol                         | 11.2           | 0.407      | 0.407       | 27.5            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylbenzene                         | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| m,p-Xylene                               | 0.935          | 0.230      | 0.230       | 4.06            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | 0.402          | 0.339      | 0.339       | 1.18            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | 0.864       | ND              | 3.00        | 3.00        | 12/06/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| o-Xylene                                 | 0.256          | 0.230      | 0.230       | 1.11            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Styrene                                  | ND             | 0.235      | 0.235       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Tetrachloroethene                        | 0.258          | 0.037      | 0.037       | 1.75            | 0.25        | 0.25        | 12/06/19  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Toluene                                  | 2.85           | 0.266      | 0.266       | 10.7            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichloroethene                          | ND             | 0.037      | 0.037       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Trichlorofluoromethane                   | ND             | 0.178      | 0.178       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 97             | %          | %           | 97              | %           | %           | 12/06/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 108            | %          | %           | 108             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 101            | %          | %           | 101             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 111            | %          | %           | 111             | %           | %           | 12/06/19  | KCA | 1        |



| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

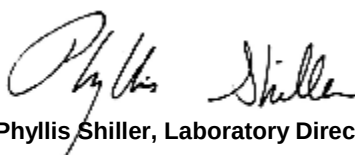
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

January 06, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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## Analysis Report

January 06, 2020

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

### Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 28583

### Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

### Date

12/04/19 14:10  
12/05/19 15:34

### Time

Project ID: CHEZ VALET  
Client ID: DRY CLEANER IA-3

### Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81147

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | 0.256          | 0.204      | 0.204       | 1.26            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Ethyltoluene                | 0.242          | 0.204      | 0.204       | 1.19            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acetone                       | 5.67           | 0.421      | 0.421       | 13.5            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzene                       | 0.423          | 0.313      | 0.313       | 1.35            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.079          | 0.032      | 0.032       | 0.50            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloromethane                            | 0.817          | 0.485      | 0.485       | 1.69            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | 0.291       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dichlorodifluoromethane                  | ND             | 0.202      | 0.202       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethanol                                  | 53.0           | E 0.531    | 0.531       | 100             | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethyl acetate                            | 1.20           | 0.278      | 0.278       | 4.32            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethylbenzene                             | ND             | 0.230      | 0.230       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Heptane                                  | 0.288          | 0.244      | 0.244       | 1.18            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexane                                   | 0.645          | 0.284      | 0.284       | 2.27            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylalcohol                         | 4.61           | 0.407      | 0.407       | 11.3            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylbenzene                         | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| m,p-Xylene                               | 0.294          | 0.230      | 0.230       | 1.28            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | 0.412          | 0.339      | 0.339       | 1.21            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | 0.864       | ND              | 3.00        | 3.00        | 12/06/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| o-Xylene                                 | ND             | 0.230      | 0.230       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Styrene                                  | ND             | 0.235      | 0.235       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Tetrachloroethene                        | 0.943          | 0.037      | 0.037       | 6.39            | 0.25        | 0.25        | 12/06/19  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Toluene                                  | 1.10           | 0.266      | 0.266       | 4.14            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichloroethene                          | 5.77           | 0.037      | 0.037       | 31.0            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Trichlorofluoromethane                   | ND             | 0.178      | 0.178       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 99             | %          | %           | 99              | %           | %           | 12/06/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 98             | %          | %           | 98              | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 106            | %          | %           | 106             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 113            | %          | %           | 113             | %           | %           | 12/06/19  | KCA | 1        |

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

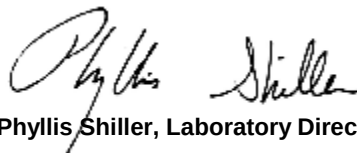
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 06, 2020**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

January 06, 2020

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

## Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 480

## Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

## Date

12/04/19 14:15  
12/05/19 15:34

## Time

Project ID: CHEZ VALET  
Client ID: TILE STORE IA-6

## Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81148

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | 0.941          | 0.204      | 0.204       | 4.62            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | 0.270          | 0.204      | 0.204       | 1.33            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Ethyltoluene                | 0.615          | 0.204      | 0.204       | 3.02            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acetone                       | 21.7           | 0.421      | 0.421       | 51.5            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzene                       | 0.432          | 0.313      | 0.313       | 1.38            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.077          | 0.032      | 0.032       | 0.48            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloromethane                            | 0.599          | 0.485      | 0.485       | 1.24            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | 0.291       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dichlorodifluoromethane                  | ND             | 0.202      | 0.202       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethanol                                  | 185            | E 0.531    | 0.531       | 348             | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Ethyl acetate                            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Ethylbenzene                             | 0.614          | 0.230      | 0.230       | 2.66            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Heptane                                  | 0.246          | 0.244      | 0.244       | 1.01            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexane                                   | 4.08           | 0.284      | 0.284       | 14.4            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylalcohol                         | 5.10           | 0.407      | 0.407       | 12.5            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylbenzene                         | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| m,p-Xylene                               | 2.27           | 0.230      | 0.230       | 9.9             | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | 6.32           | 0.339      | 0.339       | 18.6            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methylene Chloride                       | 1.57           | 0.864      | 0.864       | 5.45            | 3.00        | 3.00        | 12/06/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| o-Xylene                                 | 0.850          | 0.230      | 0.230       | 3.69            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Styrene                                  | ND             | 0.235      | 0.235       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Tetrachloroethene                        | 0.294          | 0.037      | 0.037       | 1.99            | 0.25        | 0.25        | 12/06/19  | KCA | 1        |
| Tetrahydrofuran                          | 7.76           | 0.339      | 0.339       | 22.9            | 1.00        | 1.00        | 12/06/19  | KCA | 1 1      |
| Toluene                                  | 3.01           | 0.266      | 0.266       | 11.3            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichloroethene                          | 0.267          | 0.037      | 0.037       | 1.43            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Trichlorofluoromethane                   | ND             | 0.178      | 0.178       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 98             | %          | %           | 98              | %           | %           | 12/06/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 124            | %          | %           | 124             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 123            | %          | %           | 123             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 126            | %          | %           | 126             | %           | %           | 12/06/19  | KCA | 1        |

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

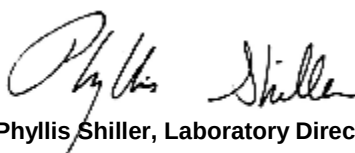
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

January 06, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Report

January 06, 2020

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

### Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 492

### Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

### Date

12/04/19 14:30  
12/05/19 15:34

### Time

Project ID: CHEZ VALET  
Client ID: HAIR SALON IA-4 DUP

### Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81149

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | 0.242          | 0.204      | 0.204       | 1.19            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Ethyltoluene                | 0.233          | 0.204      | 0.204       | 1.14            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acetone                       | 14.0           | 0.421      | 0.421       | 33.2            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzene                       | 0.886          | 0.313      | 0.313       | 2.83            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |



| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.082          | 0.032      | 0.032       | 0.52            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloromethane                            | ND             | 0.485      | 0.485       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cyclohexane                              | 0.437          | 0.291      | 0.291       | 1.50            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dichlorodifluoromethane                  | ND             | 0.202      | 0.202       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethanol                                  | 632            | E 0.531    | 0.531       | 1190            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethyl acetate                            | 0.400          | 0.278      | 0.278       | 1.44            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethylbenzene                             | 0.252          | 0.230      | 0.230       | 1.09            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Heptane                                  | 0.551          | 0.244      | 0.244       | 2.26            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexane                                   | 1.18           | 0.284      | 0.284       | 4.16            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylalcohol                         | 10.9           | 0.407      | 0.407       | 26.8            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylbenzene                         | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| m,p-Xylene                               | 0.945          | 0.230      | 0.230       | 4.10            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | 0.357          | 0.339      | 0.339       | 1.05            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | 0.864       | ND              | 3.00        | 3.00        | 12/06/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| o-Xylene                                 | 0.255          | 0.230      | 0.230       | 1.11            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Styrene                                  | ND             | 0.235      | 0.235       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Tetrachloroethene                        | 0.252          | 0.037      | 0.037       | 1.71            | 0.25        | 0.25        | 12/06/19  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Toluene                                  | 2.85           | 0.266      | 0.266       | 10.7            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichloroethene                          | ND             | 0.037      | 0.037       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Trichlorofluoromethane                   | ND             | 0.178      | 0.178       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 98             | %          | %           | 98              | %           | %           | 12/06/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 129            | %          | %           | 129             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 120            | %          | %           | 120             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 128            | %          | %           | 128             | %           | %           | 12/06/19  | KCA | 1        |

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

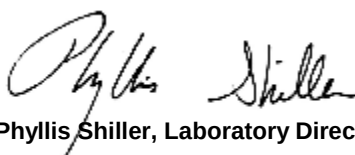
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 06, 2020**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Report

January 06, 2020

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

### Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 468

### Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

### Date

12/04/19 14:20  
12/05/19 15:34

### Time

Project ID: CHEZ VALET  
Client ID: VP-6 TILE STORE

### Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81150

| Parameter                      | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|--------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b><u>Volatiles (TO15)</u></b> |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane      | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,1-Trichloroethane          | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane      | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,2-Trichloroethane          | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1-Dichloroethane             | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1-Dichloroethene             | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene         | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene         | 0.263          | 0.204      | 0.204       | 1.29            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)         | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichlorobenzene            | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichloroethane             | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-dichloropropane            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane  | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene         | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3-Butadiene                  | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3-Dichlorobenzene            | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,4-Dichlorobenzene            | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,4-Dioxane                    | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 2-Hexanone(MBK)                | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Ethyltoluene                 | 0.232          | 0.204      | 0.204       | 1.14            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Isopropyltoluene             | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)     | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Acetone                        | 16.0           | 0.421      | 0.421       | 38.0            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Acrylonitrile                  | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Benzene                        | 0.320          | 0.313      | 0.313       | 1.02            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Benzyl chloride                | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.060          | 0.032      | 0.032       | 0.38            | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloromethane                            | ND             | 0.485      | 0.485       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | 0.291       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Dichlorodifluoromethane                  | ND             | 0.202      | 0.202       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Ethanol                                  | 49.4           | E 0.531    | 0.531       | 93.0            | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| Ethyl acetate                            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| Ethylbenzene                             | 0.428          | 0.230      | 0.230       | 1.86            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Heptane                                  | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Hexane                                   | 1.44           | 0.284      | 0.284       | 5.07            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Isopropylalcohol                         | 0.694          | 0.407      | 0.407       | 1.70            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Isopropylbenzene                         | 1.60           | 0.204      | 0.204       | 7.86            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| m,p-Xylene                               | 1.62           | 0.230      | 0.230       | 7.03            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | 0.864       | ND              | 3.00        | 3.00        | 12/09/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| o-Xylene                                 | 0.666          | 0.230      | 0.230       | 2.89            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| Styrene                                  | 0.617          | 0.235      | 0.235       | 2.63            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Tetrachloroethene                        | 24.3           | 0.037      | 0.037       | 165             | 0.25        | 0.25        | 12/09/19  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1 1      |
| Toluene                                  | 3.87           | 0.266      | 0.266       | 14.6            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trichloroethene                          | 0.075          | 0.037      | 0.037       | 0.40            | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| Trichlorofluoromethane                   | 0.255          | 0.178      | 0.178       | 1.43            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 97             | %          | %           | 97              | %           | %           | 12/09/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 128            | %          | %           | 128             | %           | %           | 12/09/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 119            | %          | %           | 119             | %           | %           | 12/09/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 119            | %          | %           | 119             | %           | %           | 12/09/19  | KCA | 1        |

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

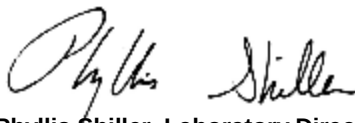
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

E = Estimated value quantitated above calibration range for this compound.

The canister was received under no vacuum, therefore sample results may not be representative.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 06, 2020**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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## Analysis Report

January 06, 2020

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

### Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 28581

### Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

### Date

12/04/19 14:25  
12/05/19 15:34

### Time

Project ID: CHEZ VALET  
Client ID: HAIR SALON VP-4

### Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81151

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Ethyltoluene                | 0.214          | 0.204      | 0.204       | 1.05            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Acetone                       | 13.4           | 0.421      | 0.421       | 31.8            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Benzene                       | ND             | 0.313      | 0.313       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.073          | 0.032      | 0.032       | 0.46            | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Chloromethane                            | 0.529          | 0.485      | 0.485       | 1.09            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | 0.291       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Dichlorodifluoromethane                  | 0.566          | 0.202      | 0.202       | 2.80            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Ethanol                                  | 80.2           | E 0.531    | 0.531       | 151             | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Ethyl acetate                            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Ethylbenzene                             | 0.453          | 0.230      | 0.230       | 1.97            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Heptane                                  | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Hexane                                   | 1.19           | 0.284      | 0.284       | 4.19            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Isopropylalcohol                         | 1.84           | 0.407      | 0.407       | 4.52            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Isopropylbenzene                         | 1.05           | 0.204      | 0.204       | 5.16            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| m,p-Xylene                               | 1.64           | 0.230      | 0.230       | 7.12            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | 1.44           | 0.339      | 0.339       | 4.24            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Methylene Chloride                       | 2.02           | 0.864      | 0.864       | 7.01            | 3.00        | 3.00        | 12/09/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| o-Xylene                                 | 0.592          | 0.230      | 0.230       | 2.57            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Styrene                                  | 0.531          | 0.235      | 0.235       | 2.26            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Tetrachloroethene                        | 1.86           | 0.037      | 0.037       | 12.6            | 0.25        | 0.25        | 12/09/19  | KCA | 1        |
| Tetrahydrofuran                          | 1.93           | 0.339      | 0.339       | 5.69            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Toluene                                  | 4.10           | 0.266      | 0.266       | 15.4            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trichloroethene                          | 0.121          | 0.037      | 0.037       | 0.65            | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| Trichlorofluoromethane                   | 0.272          | 0.178      | 0.178       | 1.53            | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/09/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/09/19  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 93             | %          | %           | 93              | %           | %           | 12/09/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 131            | %          | %           | 131             | %           | %           | 12/09/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 123            | %          | %           | 123             | %           | %           | 12/09/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 127            | %          | %           | 127             | %           | %           | 12/09/19  | KCA | 1        |

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

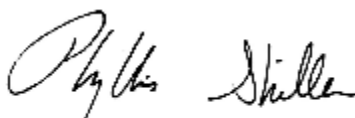
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 06, 2020**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**





Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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## Analysis Report

January 06, 2020

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

### Sample Information

Matrix: AIR  
Location Code: CEG  
Rush Request: Standard  
P.O.#:  
Canister Id: 21368

### Custody Information

Collected by: KK  
Received by: CP  
Analyzed by: see "By" below

### Date

12/04/19 14:00  
12/05/19 15:34

### Time

Project ID: CHEZ VALET  
Client ID: OUTDOOR AIR

### Laboratory Data

SDG ID: GCE81145  
Phoenix ID: CE81152

| Parameter                     | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |             |                 |             |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,1-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.146      | 0.146       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1,2-Trichloroethane         | ND             | 0.183      | 0.183       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,1-Dichloroethene            | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| 1,2,4-Trichlorobenzene        | ND             | 0.135      | 0.135       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2,4-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.130      | 0.130       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichloroethane            | ND             | 0.247      | 0.247       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-dichloropropane           | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.143      | 0.143       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3,5-Trimethylbenzene        | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Butadiene                 | ND             | 0.452      | 0.452       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,3-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dichlorobenzene           | ND             | 0.166      | 0.166       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 1,4-Dioxane                   | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 2-Hexanone(MBK)               | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Ethyltoluene                | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Isopropyltoluene            | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acetone                       | 1.40           | 0.421      | 0.421       | 3.32            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Acrylonitrile                 | ND             | 0.461      | 0.461       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzene                       | ND             | 0.313      | 0.313       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Benzyl chloride               | ND             | 0.193      | 0.193       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | 0.149       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | 0.097       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | 0.258       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | 0.321       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Carbon Tetrachloride                     | 0.070          | 0.032      | 0.032       | 0.44            | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | 0.217       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | 0.379       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | 0.205       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Chloromethane                            | 0.557          | 0.485      | 0.485       | 1.15            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.051      | 0.051       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | 0.291       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | 0.118       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Dichlorodifluoromethane                  | 0.337          | 0.202      | 0.202       | 1.67            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethanol                                  | 4.92           | 0.531      | 0.531       | 9.26            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethyl acetate                            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Ethylbenzene                             | ND             | 0.230      | 0.230       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Heptane                                  | ND             | 0.244      | 0.244       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | 0.094       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Hexane                                   | 0.289          | 0.284      | 0.284       | 1.02            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylalcohol                         | 0.520          | 0.407      | 0.407       | 1.28            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Isopropylbenzene                         | ND             | 0.204      | 0.204       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| m,p-Xylene                               | ND             | 0.230      | 0.230       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl Ethyl Ketone                      | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | 0.278       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | 0.864       | ND              | 3.00        | 3.00        | 12/06/19  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| o-Xylene                                 | ND             | 0.230      | 0.230       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Propylene                                | ND             | 0.581      | 0.581       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| sec-Butylbenzene                         | ND             | 0.182      | 0.182       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Styrene                                  | ND             | 0.235      | 0.235       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Tetrachloroethene                        | 0.119          | 0.037      | 0.037       | 0.81            | 0.25        | 0.25        | 12/06/19  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | 0.339       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Toluene                                  | 0.403          | 0.266      | 0.266       | 1.52            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | 0.252       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | 0.221       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichloroethene                          | ND             | 0.037      | 0.037       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| Trichlorofluoromethane                   | 0.193          | 0.178      | 0.178       | 1.08            | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | 0.131       | ND              | 1.00        | 1.00        | 12/06/19  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | 0.078       | ND              | 0.20        | 0.20        | 12/06/19  | KCA | 1        |
| <b><u>QA/QC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 95             | %          | %           | 95              | %           | %           | 12/06/19  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 138            | %          | %           | 138             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Bromochloromethane                  | 138            | %          | %           | 138             | %           | %           | 12/06/19  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 132            | %          | %           | 132             | %           | %           | 12/06/19  | KCA | 1        |

Project ID: CHEZ VALET  
Client ID: OUTDOOR AIR

Phoenix I.D.: CE81152

| Parameter | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By | Dilution |
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|----|----------|

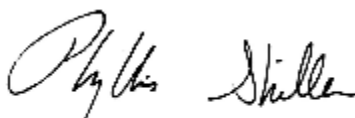
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 06, 2020**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Canister Sampling Information

January 06, 2020

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

Location Code: CEG

SDG I.D.: GCE81145

Project ID: CHEZ VALET

| Client Id          | Lab Id  | Canister |      | Reg. Id | Chk Out Date | Laboratory |       |          |         |          | Field    |        |                     |                   |
|--------------------|---------|----------|------|---------|--------------|------------|-------|----------|---------|----------|----------|--------|---------------------|-------------------|
|                    |         | Id       | Type |         |              | Out Hg     | In Hg | Out Flow | In Flow | Flow RPD | Start Hg | End Hg | Sampling Start Date | Sampling End Date |
| DRY CLEANER VP-3   | CE81145 | 12854    | 6.0L | 5659    | 12/05/19     | -30        | -5    | 10.8     | 11.7    | 8.0      | -29      | -6     | 12/04/19 6:05       | 12/04/19 14:55    |
| HAIR SALON IA-4    | CE81146 | 28578    | 6.0L | 6986    | 12/05/19     | -30        | -10   | 10.8     | 12.7    | 16.2     | -26      | -6     | 12/04/19 6:30       | 12/04/19 14:30    |
| DRY CLEANER IA-3   | CE81147 | 28583    | 6.0L | 5623    | 12/05/19     | -30        | -6    | 10.8     | 11      | 1.8      | -29      | -5     | 12/04/19 6:15       | 12/04/19 14:15    |
| TILE STORE IA-6    | CE81148 | 480      | 6.0L | 7029    | 12/05/19     | -30        | -8    | 10.8     | 10.5    | 2.8      | -30      | -7     | 12/04/19 6:15       | 12/04/19 14:15    |
| HAIR SALON IA-4 DU | CE81149 | 492      | 6.0L | 6994    | 12/05/19     | -30        | -10   | 10.8     | 10.9    | 0.9      | -27      | -6     | 12/04/19 6:30       | 12/04/19 2:30     |
| VP-6 TILE STORE    | CE81150 | 468      | 6.0L | 7045    | 12/05/19     | -30        | 0     | 10.8     | 10.9    | 0.9      | -28      | -2     | 12/04/19 18:20      | 12/04/19 14:20    |
| HAIR SALON VP-4    | CE81151 | 28581    | 6.0L | 7019    | 12/05/19     | -30        | -9    | 10.8     | 11.4    | 5.4      | -30      | -7     | 12/04/19 6:25       | 12/04/19 2:25     |
| OUTDOOR AIR        | CE81152 | 21369    | 6.0L | 7020    | 12/05/19     | -30        | -4    | 10.8     | 11      | 1.8      | -30      | -6     | 12/04/19 6:00       | 12/04/19 14:00    |



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# QA/QC Report

January 06, 2020

## QA/QC Data

SDG I.D.: GCE81145

| Parameter                                                                                      | Blk<br>ppbv | Blk<br>RL<br>ppbv | Blk<br>ug/m3 | Blk<br>RL<br>ug/m3 | LCS<br>% | LCSD<br>% | Sample<br>Result<br>ug/m3 | Sample<br>Dup<br>ug/m3 | Sample<br>Result<br>ppbv | Sample<br>Dup<br>ppbv | DUP<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|------------------------------------------------------------------------------------------------|-------------|-------------------|--------------|--------------------|----------|-----------|---------------------------|------------------------|--------------------------|-----------------------|------------|--------------------|--------------------|
| QA/QC Batch 509314 (ppbv), QC Sample No: CE81147 (CE81146, CE81147, CE81148, CE81149, CE81152) |             |                   |              |                    |          |           |                           |                        |                          |                       |            |                    |                    |
| <b>Volatiles</b>                                                                               |             |                   |              |                    |          |           |                           |                        |                          |                       |            |                    |                    |
| 1,1,1,2-Tetrachloroethane                                                                      | ND          | 0.150             | ND           | 1.03               | 92       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1,1-Trichloroethane                                                                          | ND          | 0.180             | ND           | 0.98               | 98       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1,2,2-Tetrachloroethane                                                                      | ND          | 0.150             | ND           | 1.03               | 98       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1,2-Trichloroethane                                                                          | ND          | 0.180             | ND           | 0.98               | 101      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1-Dichloroethane                                                                             | ND          | 0.250             | ND           | 1.01               | 104      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1-Dichloroethene                                                                             | ND          | 0.050             | ND           | 0.20               | 96       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2,4-Trichlorobenzene                                                                         | ND          | 0.130             | ND           | 0.96               | 80       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2,4-Trimethylbenzene                                                                         | ND          | 0.200             | ND           | 0.98               | 110      |           | 1.26                      | 1.24                   | 0.256                    | 0.252                 | NC         | 70 - 130           | 25                 |
| 1,2-Dibromoethane(EDB)                                                                         | ND          | 0.130             | ND           | 1.00               | 107      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-Dichlorobenzene                                                                            | ND          | 0.170             | ND           | 1.02               | 107      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-Dichloroethane                                                                             | ND          | 0.250             | ND           | 1.01               | 106      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-dichloropropane                                                                            | ND          | 0.220             | ND           | 1.02               | 112      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-Dichlorotetrafluoroethane                                                                  | ND          | 0.140             | ND           | 0.98               | 91       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,3,5-Trimethylbenzene                                                                         | ND          | 0.200             | ND           | 0.98               | 108      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,3-Butadiene                                                                                  | ND          | 0.450             | ND           | 0.99               | 95       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,3-Dichlorobenzene                                                                            | ND          | 0.170             | ND           | 1.02               | 98       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,4-Dichlorobenzene                                                                            | ND          | 0.170             | ND           | 1.02               | 107      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,4-Dioxane                                                                                    | ND          | 0.280             | ND           | 1.01               | 111      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 2-Hexanone(MBK)                                                                                | ND          | 0.240             | ND           | 0.98               | 117      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 4-Ethyltoluene                                                                                 | ND          | 0.200             | ND           | 0.98               | 101      |           | 1.19                      | 1.20                   | 0.242                    | 0.245                 | NC         | 70 - 130           | 25                 |
| 4-Isopropyltoluene                                                                             | ND          | 0.180             | ND           | 0.99               | 109      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 4-Methyl-2-pentanone(MIBK)                                                                     | ND          | 0.240             | ND           | 0.98               | 107      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Acetone                                                                                        | ND          | 0.420             | ND           | 1.00               | 104      |           | 13.5                      | 12.9                   | 5.67                     | 5.44                  | 4.1        | 70 - 130           | 25                 |
| Acrylonitrile                                                                                  | ND          | 0.460             | ND           | 1.00               | 95       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Benzene                                                                                        | ND          | 0.310             | ND           | 0.99               | 103      |           | 1.35                      | 1.40                   | 0.423                    | 0.440                 | NC         | 70 - 130           | 25                 |
| Benzyl chloride                                                                                | ND          | 0.190             | ND           | 0.98               | 104      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromodichloromethane                                                                           | ND          | 0.150             | ND           | 1.00               | 104      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromoform                                                                                      | ND          | 0.097             | ND           | 1.00               | 94       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromomethane                                                                                   | ND          | 0.260             | ND           | 1.01               | 94       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Carbon Disulfide                                                                               | ND          | 0.320             | ND           | 1.00               | 101      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Carbon Tetrachloride                                                                           | ND          | 0.032             | ND           | 0.20               | 103      |           | 0.50                      | 0.48                   | 0.079                    | 0.077                 | NC         | 70 - 130           | 25                 |
| Chlorobenzene                                                                                  | ND          | 0.220             | ND           | 1.01               | 101      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloroethane                                                                                   | ND          | 0.380             | ND           | 1.00               | 92       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloroform                                                                                     | ND          | 0.200             | ND           | 0.98               | 107      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloromethane                                                                                  | ND          | 0.480             | ND           | 0.99               | 71       |           | 1.69                      | 1.60                   | 0.817                    | 0.775                 | NC         | 70 - 130           | 25                 |
| Cis-1,2-Dichloroethene                                                                         | ND          | 0.256             | ND           | 1.01               | 113      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| cis-1,3-Dichloropropene                                                                        | ND          | 0.220             | ND           | 1.00               | 111      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Cyclohexane                                                                                    | ND          | 0.290             | ND           | 1.00               | 109      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Dibromochloromethane                                                                           | ND          | 0.120             | ND           | 1.02               | 102      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Dichlorodifluoromethane                                                                        | ND          | 0.200             | ND           | 0.99               | 96       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Ethanol                                                                                        | ND          | 0.530             | ND           | 1.00               | 98       |           | 100 E                     | 90.6                   | 53.0 E                   | 48.1                  | 9.7        | 70 - 130           | 25                 |

## QA/QC Data

SDG I.D.: GCE81145

| Parameter                     | Blk<br>ppbv | Blk<br>RL<br>ppbv | Blk<br>ug/m3 | Blk<br>RL<br>ug/m3 | LCS<br>% | LCSD<br>% | Sample<br>Result<br>ug/m3 | Sample<br>Dup<br>ug/m3 | Sample<br>Result<br>ppbv | Sample<br>Dup<br>ppbv | DUP<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|-------------------------------|-------------|-------------------|--------------|--------------------|----------|-----------|---------------------------|------------------------|--------------------------|-----------------------|------------|--------------------|--------------------|
| Ethyl acetate                 | ND          | 0.280             | ND           | 1.01               | 109      |           | 4.32                      | 4.18                   | 1.20                     | 1.16                  | NC         | 70 - 130           | 25                 |
| Ethylbenzene                  | ND          | 0.230             | ND           | 1.00               | 101      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Heptane                       | ND          | 0.240             | ND           | 0.98               | 106      |           | 1.18                      | 1.12                   | 0.288                    | 0.273                 | NC         | 70 - 130           | 25                 |
| Hexachlorobutadiene           | ND          | 0.094             | ND           | 1.00               | 83       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Hexane                        | ND          | 0.280             | ND           | 0.99               | 113      |           | 2.27                      | 2.02                   | 0.645                    | 0.573                 | NC         | 70 - 130           | 25                 |
| Isopropylalcohol              | ND          | 0.410             | ND           | 1.01               | 95       |           | 11.3                      | 10.8                   | 4.61                     | 4.38                  | 5.1        | 70 - 130           | 25                 |
| Isopropylbenzene              | ND          | 0.200             | ND           | 0.98               | 109      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| m,p-Xylene                    | ND          | 0.230             | ND           | 1.00               | 109      |           | 1.28                      | 1.33                   | 0.294                    | 0.306                 | NC         | 70 - 130           | 25                 |
| Methyl Ethyl Ketone           | ND          | 0.340             | ND           | 1.00               | 135      |           | 1.21                      | 1.10                   | 0.412                    | 0.374                 | NC         | 70 - 130           | 25                 |
| Methyl tert-butyl ether(MTBE) | ND          | 0.280             | ND           | 1.01               | 98       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Methylene Chloride            | ND          | 0.860             | ND           | 2.99               | 101      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| n-Butylbenzene                | ND          | 0.180             | ND           | 0.99               | 106      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| o-Xylene                      | ND          | 0.230             | ND           | 1.00               | 114      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Propylene                     | ND          | 0.580             | ND           | 1.00               | 118      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| sec-Butylbenzene              | ND          | 0.180             | ND           | 0.99               | 105      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Styrene                       | ND          | 0.230             | ND           | 0.98               | 103      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Tetrachloroethene             | ND          | 0.037             | ND           | 0.25               | 104      |           | 6.39                      | 6.71                   | 0.943                    | 0.990                 | 4.9        | 70 - 130           | 25                 |
| Tetrahydrofuran               | ND          | 0.340             | ND           | 1.00               | 104      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Toluene                       | ND          | 0.270             | ND           | 1.02               | 114      |           | 4.11                      | 4.33                   | 1.09                     | 1.15                  | NC         | 70 - 130           | 25                 |
| Trans-1,2-Dichloroethene      | ND          | 0.250             | ND           | 0.99               | 98       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| trans-1,3-Dichloropropene     | ND          | 0.220             | ND           | 1.00               | 102      |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Trichloroethene               | ND          | 0.037             | ND           | 0.20               | 106      |           | 31.0                      | 32.3                   | 5.77                     | 6.01                  | 4.1        | 70 - 130           | 25                 |
| Trichlorofluoromethane        | ND          | 0.180             | ND           | 1.01               | 89       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Trichlorotrifluoroethane      | ND          | 0.130             | ND           | 1.00               | 96       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Vinyl Chloride                | ND          | 0.078             | ND           | 0.20               | 91       |           | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| % Bromofluorobenzene          | 89          | %                 | 89           | %                  | 104      |           | 99                        | 99                     | 99                       | 99                    | NC         | 70 - 130           | 25                 |
| % IS-1,4-Difluorobenzene      | 143         | %                 | 143          | %                  | 86       |           | 98                        | 109                    | 98                       | 109                   | NC         | 60 - 140           | 25                 |
| % IS-Bromochloromethane       | 159         | %                 | 159          | %                  | 80       |           | 106                       | 120                    | 106                      | 120                   | NC         | 60 - 140           | 25                 |
| % IS-Chlorobenzene-d5         | 130         | %                 | 130          | %                  | 94       |           | 113                       | 124                    | 113                      | 124                   | NC         | 60 - 140           | 25                 |

QA/QC Batch 509344 (ppbv), QC Sample No: CE81151 (CE81145, CE81150, CE81151)

Volatiles

|                               |    |       |    |      |     |     |      |    |       |    |    |          |    |
|-------------------------------|----|-------|----|------|-----|-----|------|----|-------|----|----|----------|----|
| 1,1,1,2-Tetrachloroethane     | ND | 0.150 | ND | 1.03 | 100 | 100 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,1,1-Trichloroethane         | ND | 0.180 | ND | 0.98 | 100 | 102 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,1,2,2-Tetrachloroethane     | ND | 0.150 | ND | 1.03 | 104 | 106 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,1,2-Trichloroethane         | ND | 0.180 | ND | 0.98 | 104 | 106 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,1-Dichloroethane            | ND | 0.250 | ND | 1.01 | 109 | 111 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,1-Dichloroethene            | ND | 0.050 | ND | 0.20 | 99  | 99  | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,2,4-Trichlorobenzene        | ND | 0.130 | ND | 0.96 | 95  | 94  | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,2,4-Trimethylbenzene        | ND | 0.200 | ND | 0.98 | 125 | 125 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,2-Dibromoethane(EDB)        | ND | 0.130 | ND | 1.00 | 112 | 112 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,2-Dichlorobenzene           | ND | 0.170 | ND | 1.02 | 112 | 110 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,2-Dichloroethane            | ND | 0.250 | ND | 1.01 | 109 | 111 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,2-dichloropropane           | ND | 0.220 | ND | 1.02 | 120 | 122 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,2-Dichlorotetrafluoroethane | ND | 0.140 | ND | 0.98 | 104 | 99  | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,3,5-Trimethylbenzene        | ND | 0.200 | ND | 0.98 | 122 | 124 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,3-Butadiene                 | ND | 0.450 | ND | 0.99 | 107 | 105 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,3-Dichlorobenzene           | ND | 0.170 | ND | 1.02 | 105 | 106 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,4-Dichlorobenzene           | ND | 0.170 | ND | 1.02 | 116 | 116 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 1,4-Dioxane                   | ND | 0.280 | ND | 1.01 | 123 | 126 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 2-Hexanone(MBK)               | ND | 0.240 | ND | 0.98 | 126 | 128 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |
| 4-Ethyltoluene                | ND | 0.200 | ND | 0.98 | 116 | 118 | 1.05 | ND | 0.214 | ND | NC | 70 - 130 | 25 |
| 4-Isopropyltoluene            | ND | 0.180 | ND | 0.99 | 122 | 122 | ND   | ND | ND    | ND | NC | 70 - 130 | 25 |

## QA/QC Data

SDG I.D.: GCE81145

| Parameter                     | Blk<br>ppbv | Blk<br>RL<br>ppbv | Blk<br>ug/m3 | Blk<br>RL<br>ug/m3 | LCS<br>% | LCSD<br>% | Sample<br>Result<br>ug/m3 | Sample<br>Dup<br>ug/m3 | Sample<br>Result<br>ppbv | Sample<br>Dup<br>ppbv | DUP<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|-------------------------------|-------------|-------------------|--------------|--------------------|----------|-----------|---------------------------|------------------------|--------------------------|-----------------------|------------|--------------------|--------------------|
| 4-Methyl-2-pentanone(MIBK)    | ND          | 0.240             | ND           | 0.98               | 118      | 117       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Acetone                       | ND          | 0.420             | ND           | 1.00               | 106      | 104       | 31.8                      | 33.9                   | 13.4                     | 14.3                  | 6.5        | 70 - 130           | 25                 |
| Acrylonitrile                 | ND          | 0.460             | ND           | 1.00               | 104      | 105       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Benzene                       | ND          | 0.310             | ND           | 0.99               | 110      | 113       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Benzyl chloride               | ND          | 0.190             | ND           | 0.98               | 102      | 103       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromodichloromethane          | ND          | 0.150             | ND           | 1.00               | 106      | 106       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromoform                     | ND          | 0.097             | ND           | 1.00               | 102      | 103       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromomethane                  | ND          | 0.260             | ND           | 1.01               | 95       | 96        | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Carbon Disulfide              | ND          | 0.320             | ND           | 1.00               | 104      | 103       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Carbon Tetrachloride          | ND          | 0.032             | ND           | 0.20               | 103      | 104       | 0.46                      | 0.46                   | 0.073                    | 0.073                 | NC         | 70 - 130           | 25                 |
| Chlorobenzene                 | ND          | 0.220             | ND           | 1.01               | 110      | 113       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloroethane                  | ND          | 0.380             | ND           | 1.00               | 95       | 92        | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloroform                    | ND          | 0.200             | ND           | 0.98               | 109      | 112       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloromethane                 | ND          | 0.480             | ND           | 0.99               | 98       | 94        | 1.09                      | 1.06                   | 0.529                    | 0.516                 | NC         | 70 - 130           | 25                 |
| Cis-1,2-Dichloroethene        | ND          | 0.256             | ND           | 1.01               | 119      | 122       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| cis-1,3-Dichloropropene       | ND          | 0.220             | ND           | 1.00               | 125      | 124       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Cyclohexane                   | ND          | 0.290             | ND           | 1.00               | 118      | 124       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Dibromochloromethane          | ND          | 0.120             | ND           | 1.02               | 105      | 106       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Dichlorodifluoromethane       | ND          | 0.200             | ND           | 0.99               | 100      | 93        | 2.80                      | 3.06                   | 0.566                    | 0.620                 | NC         | 70 - 130           | 25                 |
| Ethanol                       | ND          | 0.530             | ND           | 1.00               | 112      | 110       | 151 E                     | 147                    | 80.2 E                   | 78.0                  | 2.8        | 70 - 130           | 25                 |
| Ethyl acetate                 | ND          | 0.280             | ND           | 1.01               | 115      | 117       | ND                        | 1.13                   | ND                       | 0.315                 | NC         | 70 - 130           | 25                 |
| Ethylbenzene                  | ND          | 0.230             | ND           | 1.00               | 113      | 114       | 1.97                      | 1.83                   | 0.453                    | 0.422                 | NC         | 70 - 130           | 25                 |
| Heptane                       | ND          | 0.240             | ND           | 0.98               | 117      | 117       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Hexachlorobutadiene           | ND          | 0.094             | ND           | 1.00               | 90       | 89        | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Hexane                        | ND          | 0.280             | ND           | 0.99               | 114      | 110       | 4.19                      | 3.98                   | 1.19                     | 1.13                  | NC         | 70 - 130           | 25                 |
| Isopropylalcohol              | ND          | 0.410             | ND           | 1.01               | 93       | 91        | 4.52                      | 4.35                   | 1.84                     | 1.77                  | NC         | 70 - 130           | 25                 |
| Isopropylbenzene              | ND          | 0.200             | ND           | 0.98               | 130      | 132       | 5.16                      | 4.59                   | 1.05                     | 0.935                 | NC         | 70 - 130           | 25                 |
| m,p-Xylene                    | ND          | 0.230             | ND           | 1.00               | 124      | 127       | 7.12                      | 6.68                   | 1.64                     | 1.54                  | 6.3        | 70 - 130           | 25                 |
| Methyl Ethyl Ketone           | ND          | 0.340             | ND           | 1.00               | 119      | 121       | 4.24                      | 4.27                   | 1.44                     | 1.45                  | NC         | 70 - 130           | 25                 |
| Methyl tert-butyl ether(MTBE) | ND          | 0.280             | ND           | 1.01               | 106      | 106       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Methylene Chloride            | ND          | 0.860             | ND           | 2.99               | 98       | 99        | 7.01                      | 6.87                   | 2.02                     | 1.98                  | NC         | 70 - 130           | 25                 |
| n-Butylbenzene                | ND          | 0.180             | ND           | 0.99               | 115      | 116       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| o-Xylene                      | ND          | 0.230             | ND           | 1.00               | 131      | 134       | 2.57                      | 2.43                   | 0.592                    | 0.560                 | NC         | 70 - 130           | 25                 |
| Propylene                     | ND          | 0.580             | ND           | 1.00               | 145      | 125       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| sec-Butylbenzene              | ND          | 0.180             | ND           | 0.99               | 118      | 118       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Styrene                       | ND          | 0.230             | ND           | 0.98               | 120      | 121       | 2.26                      | 2.06                   | 0.531                    | 0.483                 | NC         | 70 - 130           | 25                 |
| Tetrachloroethene             | ND          | 0.037             | ND           | 0.25               | 111      | 114       | 12.6                      | 10.5                   | 1.86                     | 1.55                  | 18.2       | 70 - 130           | 25                 |
| Tetrahydrofuran               | ND          | 0.340             | ND           | 1.00               | 115      | 118       | 5.69                      | 5.66                   | 1.93                     | 1.92                  | 0.5        | 70 - 130           | 25                 |
| Toluene                       | ND          | 0.270             | ND           | 1.02               | 126      | 128       | 15.4                      | 15.2                   | 4.09                     | 4.04                  | 1.2        | 70 - 130           | 25                 |
| Trans-1,2-Dichloroethene      | ND          | 0.250             | ND           | 0.99               | 104      | 104       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| trans-1,3-Dichloropropene     | ND          | 0.220             | ND           | 1.00               | 109      | 108       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Trichloroethene               | ND          | 0.037             | ND           | 0.20               | 116      | 118       | 0.65                      | 0.61                   | 0.121                    | 0.113                 | NC         | 70 - 130           | 25                 |
| Trichlorofluoromethane        | ND          | 0.180             | ND           | 1.01               | 87       | 87        | 1.53                      | 1.51                   | 0.272                    | 0.269                 | NC         | 70 - 130           | 25                 |
| Trichlorotrifluoroethane      | ND          | 0.130             | ND           | 1.00               | 94       | 94        | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Vinyl Chloride                | ND          | 0.078             | ND           | 0.20               | 102      | 100       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| % Bromofluorobenzene          | 87          | %                 | 87           | %                  | 102      | 99        | 93                        | 91                     | 93                       | 91                    | NC         | 70 - 130           | 25                 |
| % IS-1,4-Difluorobenzene      | 128         | %                 | 128          | %                  | 83       | 85        | 131                       | 133                    | 131                      | 133                   | NC         | 60 - 140           | 25                 |
| % IS-Bromochloromethane       | 135         | %                 | 135          | %                  | 78       | 79        | 123                       | 124                    | 123                      | 124                   | NC         | 60 - 140           | 25                 |
| % IS-Chlorobenzene-d5         | 115         | %                 | 115          | %                  | 88       | 90        | 127                       | 127                    | 127                      | 127                   | NC         | 60 - 140           | 25                 |

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

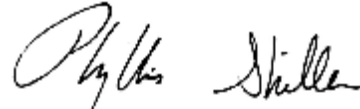
## QA/QC Data

SDG I.D.: GCE81145

| Parameter | Blk<br>ppbv | Blk<br>RL<br>ppbv | Blk<br>ug/m3 | Blk<br>RL<br>ug/m3 | LCS<br>% | LCSD<br>% | Sample<br>Result<br>ug/m3 | Sample<br>Dup<br>ug/m3 | Sample<br>Result<br>ppbv | Sample<br>Dup<br>ppbv | DUP<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|-----------|-------------|-------------------|--------------|--------------------|----------|-----------|---------------------------|------------------------|--------------------------|-----------------------|------------|--------------------|--------------------|
|-----------|-------------|-------------------|--------------|--------------------|----------|-----------|---------------------------|------------------------|--------------------------|-----------------------|------------|--------------------|--------------------|

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference  
LCS - Laboratory Control Sample  
LCSD - Laboratory Control Sample Duplicate  
MS - Matrix Spike  
MS Dup - Matrix Spike Duplicate  
NC - No Criteria  
Intf - Interference



Phyllis Shiller, Laboratory Director  
January 06, 2020



# Sample Criteria Exceedances Report

Criteria: None

**GCE81145 - CEG**

State: NY

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL<br>Criteria | Analysis<br>Units |
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|

\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



58 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
Telephone: 860.645.1102 • Fax: 860.645.0823

# CHAIN OF CUSTODY RECORD AIR ANALYSES

800-827-5426  
email: greg@phoenixlabs.com

P.O. # \_\_\_\_\_ Page / of /

Data Delivery:

☐ Fax #:

☒ Email: Kyle.Kreter@phoenixlabs.com

☐ Phone #:

|            |                                           |               |                   |                        |                              |
|------------|-------------------------------------------|---------------|-------------------|------------------------|------------------------------|
| Report to: | Kyle Kreter                               | Project Name: | CHIEZ VAREZ       | Data Format:           | (Circle) <u>Excel</u> Other: |
| Customer:  | Cody Ehlers Group                         | Invoice to:   | CODY EHLERS GROUP | Requested Deliverable: | RCP <u>ASP CAT B</u>         |
| Address:   | 935 White Plains Rd.<br>Tomball, CT 06611 | Sampled by:   | CK                | Quote Number:          |                              |

| Phoenix ID #                  | Client Sample ID    | Canister ID # | Canister Size (L) | Outgoing Canister Pressure (Psi) | Incoming Canister Pressure (Psi) | Flow Regulator ID # | Flow Controller Setting (mL/min) | Sampling Start Time | Sampling End Time | Sample Start Date | Canister Pressure at Start (Psi) | Canister Pressure at End (Psi) | Ambient/Indoor Air | Soil Gas | Grab (G) Composite (C) | TO-15 | ANALYSES |
|-------------------------------|---------------------|---------------|-------------------|----------------------------------|----------------------------------|---------------------|----------------------------------|---------------------|-------------------|-------------------|----------------------------------|--------------------------------|--------------------|----------|------------------------|-------|----------|
| THIS SECTION FOR LAB USE ONLY |                     |               |                   |                                  |                                  |                     |                                  |                     |                   |                   |                                  |                                |                    |          |                        |       |          |
| 81145                         | Day Cleaner VP-3    | 13854         | 6.0               | -30                              | -5                               | 6659                | 108                              | 6:05                | 2:05              | 12/4/19           | -29                              | -6                             |                    |          |                        |       |          |
| 81146                         | HAIR SALON IA-4     | 28578         |                   |                                  | -10                              | 6986                |                                  | 6:30                | 2:30              |                   | -26                              | -4                             |                    |          |                        |       |          |
| 81147                         | Day Cleaner IA-3    | 28583         |                   |                                  | -6                               | 5623                |                                  | 6:40                | 2:10              |                   | -29                              | -5                             |                    |          |                        |       |          |
| 81148                         | TILE STORE IA-6     | 480           |                   |                                  | -8                               | 7089                |                                  | 6:15                | 2:15              |                   | -30                              | -7                             |                    |          |                        |       |          |
| 81149                         | HAIR SALON IA-4 Dup | 492           |                   |                                  | -10                              | 6094                |                                  | 6:30                | 2:30              |                   | -27                              | -6                             |                    |          |                        |       |          |
| 81150                         | VP-4 TILES STORE    | 468           |                   |                                  | -9                               | 7005                |                                  | 6:20                | 2:20              |                   | -28                              | -2                             |                    |          |                        |       |          |
| 81151                         | HAIR SALON VP-4     | 28581         |                   |                                  | -9                               | 7019                |                                  | 6:25                | 2:25              |                   | -30                              | -7                             |                    |          |                        |       |          |
| 81152                         | OUTDOOR AIR         | 21268         |                   |                                  | -4                               | 5337                |                                  | 6:00                | 2:00              | 12/4/19           | -30                              | -6                             |                    |          |                        |       |          |

|                                                                                                                                                                                                         |                     |                |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|----------------|
| Relinquished by:                                                                                                                                                                                        | Accepted by:        | Date:          | Time:          |
| <u>[Signature]</u>                                                                                                                                                                                      | <u>[Signature]</u>  | 12/5/19        | 13:45          |
| I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document. |                     |                |                |
| State Where Samples Collected:                                                                                                                                                                          | Requested Criteria: | NE             | NY             |
| NY                                                                                                                                                                                                      | (Please Circle)     |                |                |
| Turnaround Time:                                                                                                                                                                                        | Indoor Air:         | Indoor Air:    | Indoor Air:    |
| <input type="checkbox"/> 1 Day                                                                                                                                                                          | TAC I/C             | Residential    | Residential    |
| <input type="checkbox"/> 2 Day                                                                                                                                                                          | TAC RES             | Ind/Commercial | Ind/Commercial |
| <input type="checkbox"/> 3 Day                                                                                                                                                                          | SVWC I/C            | Soil Gas:      | Soil Gas:      |
| <input type="checkbox"/> 4 Day                                                                                                                                                                          | SVWC RES            | Residential    | Residential    |
| <input type="checkbox"/> 5 Day                                                                                                                                                                          | GWV I/C             | Ind/Commercial | Ind/Commercial |
| SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:                                                                                                                                          |                     |                |                |
| NYS DEC TO-15 LIST (TABLE 1C) (814P) (814P)                                                                                                                                                             |                     |                |                |



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL  
DATA PACKAGE

Client: Cody Ehlers Group

CHEZ VALET

Laboratory Project: GCE81145

Volatile TO15  
Ver 1

## Organic Data Flags

LOD(MDL): Limit of Detection or Method Detection Limit  
The minimum reportable concentration that can be measured with confidence.

PQL(RL): Practical Quantitation Level or Reporting Level  
This value is at or above the MDL and is supported by the lowest calibration standard.

Q Qualifiers:

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

J - Indicates an estimated value, may indicate one of the following, depending on the situation:  
a) The reported value is estimated and below the MDL  
b) Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.  
c) QC associated with this analyte is within warning limits.

X - The concentration is not reported. This quantitation file was not evaluated for this compound at this dilution; a volatile purging or related issue may be the cause.

L - Biased Low

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.

B - This compound was also present in the method blank

D - The reported concentration is the result of a diluted analysis.

E - The reported value is estimated because the concentration exceeded the calibration range.

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

P - Percent difference is greater than 25% between the two GC columns and the lower result is reported.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040  
Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GCE81145

## Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: CHEZ VALET, Cody Ehlers Group

---

Form 1 (Analysis):

-----  
No observations noted.

Form 2 (Surrogates):

-----  
All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

-----  
Sample: CE81147 LCS  
All LCS recoveries met criteria with the following exceptions: Methyl Ethyl Ketone 135%

Sample: CE81151 LCS  
All LCS recoveries met criteria with the following exceptions: Propylene 145%, o-Xylene 131%

Form 4 (Method Blank):

-----  
File: CHEM24 1206\_06.D  
All compounds were non-detect with the following exceptions: None.

File: CHEM24 1208\_07.D  
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

-----  
File: CHEM24 1203\_07.D  
All Tune criteria was met with the following exceptions: None.

File: CHEM24 1206\_01.D  
All Tune criteria was met with the following exceptions: None.

File: CHEM24 1207\_02.D  
All Tune criteria was met with the following exceptions: None.

File: CHEM24 1208\_02.D  
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

-----  
Calibration: CHEM24 12/03/19 - 12/04/19  
100% of method compounds met criteria.  
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM24 12/07/19 - 12/07/19  
100% of method compounds met criteria.  
The following compounds did not meet maximum % deviations: None.



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SDG: GCE81145

## Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: CHEZ VALET, Cody Ehlers Group

---

### Form 7 (Continuing Calibration):

File: CHEM24 1206\_01.D (Opening)

100% of method compounds met criteria.

The following compounds did not meet maximum % deviations: Benzyl chloride 32.0% (20), 1,2,4-Trichlorobenzene 39.0% (20)

File: CHEM24 1208\_02.D (Opening)

99% of method compounds met criteria.

The following compounds did not meet maximum % deviations: Ethanol -35.6% (30), 1,2,4-Trichlorobenzene 24.0% (20)

### Form 8 (Internal Standard and Retention Time):

File: CHEM24 - 24AIR\_1203.M / 1206\_01.D Full

All samples met internal standard area and retention time criteria with the following exceptions:

1206\_06.D - CE81147 BLANK: 1,4-Difluorobenzene; Area 1423604 (593670 - 1401860), Bromochloromethane; Area 609120 (228303 - 539101)

File: CHEM24 - 24AIR\_1203.M / 1206\_01.D Sim

All samples met internal standard area and retention time criteria with the following exceptions:

1206\_06.D - CE81147 BLANK: Bromochloromethane; Area 619636 (237263 - 560261)

File: CHEM24 - 24AIR\_1203.M / Average Full

All samples met internal standard area and retention time criteria with the following exceptions:

1203\_19.D - ICAL 0.2: 1,4-Difluorobenzene; Area 1341657 (551351 - 1301929), Bromochloromethane; Area 533162 (203762 - 481152)

File: CHEM24 - 24AIR\_1203.M / Average Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24AIR\_1207.M / 1208\_02.D Full

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24AIR\_1207.M / 1208\_02.D Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24AIR\_1207.M / Average Full

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24AIR\_1207.M / Average Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

12/13/19

Alejandro Paredes

Project Manager

Lab Name: Phoenix Environmental Labs Client: CEG  
 Lab Code: Phoenix Case No.:            SDG: GCE81145  
 QC Batch Id: 509314 QC Sample Id: CE81147

|    | CLIENT<br>ID         | LAB<br>ID     | SMC1<br>BFB # |  |  |  | TOT<br>OUT |
|----|----------------------|---------------|---------------|--|--|--|------------|
| 01 | CE81147 LCS          | CE81147 LCS   | 104           |  |  |  | 0          |
| 02 | CE81147 BLANK        | CE81147 BLANK | 89            |  |  |  | 0          |
| 03 | HAIR SALON IA-4      | CE81146       | 97            |  |  |  | 0          |
| 04 | DRY CLEANER IA-3     | CE81147       | 99            |  |  |  | 0          |
| 05 | DRY CLEANER IA-3 DUP | CE81147 DUP   | 99            |  |  |  | 0          |
| 06 | TILE STORE IA-6      | CE81148       | 98            |  |  |  | 0          |
| 07 | HAIR SALON IA-4 DUP  | CE81149       | 98            |  |  |  | 0          |
| 08 | OUTDOOR AIR          | CE81152       | 95            |  |  |  | 0          |
| 09 |                      |               |               |  |  |  |            |
| 10 |                      |               |               |  |  |  |            |
| 11 |                      |               |               |  |  |  |            |
| 12 |                      |               |               |  |  |  |            |
| 13 |                      |               |               |  |  |  |            |
| 14 |                      |               |               |  |  |  |            |
| 15 |                      |               |               |  |  |  |            |
| 16 |                      |               |               |  |  |  |            |
| 17 |                      |               |               |  |  |  |            |
| 18 |                      |               |               |  |  |  |            |
| 19 |                      |               |               |  |  |  |            |
| 20 |                      |               |               |  |  |  |            |
| 21 |                      |               |               |  |  |  |            |
| 22 |                      |               |               |  |  |  |            |
| 23 |                      |               |               |  |  |  |            |
| 24 |                      |               |               |  |  |  |            |
| 25 |                      |               |               |  |  |  |            |
| 26 |                      |               |               |  |  |  |            |
| 27 |                      |               |               |  |  |  |            |
| 28 |                      |               |               |  |  |  |            |
| 29 |                      |               |               |  |  |  |            |
| 30 |                      |               |               |  |  |  |            |

|      |     |                    |                              |
|------|-----|--------------------|------------------------------|
| SMC1 | BFB | Bromofluorobenzene | <u>QC LIMITS</u><br>(70-130) |
|------|-----|--------------------|------------------------------|

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits  
D Surrogate diluted out

Page 45 of 384

Lab Name: Phoenix Environmental Labs Client: CEG  
 Lab Code: Phoenix Case No.:            SDG: GCE81145  
 QC Batch Id: 509344 QC Sample Id: CE81151

|    | CLIENT<br>ID        | LAB<br>ID     | SMC1<br>BFB # |  |  |  | TOT<br>OUT |
|----|---------------------|---------------|---------------|--|--|--|------------|
| 01 | CE81151 LCS         | CE81151 LCS   | 102           |  |  |  | 0          |
| 02 | CE81151 BLANK       | CE81151 BLANK | 87            |  |  |  | 0          |
| 03 | DRY CLEANER VP-3    | CE81145       | 94            |  |  |  | 0          |
| 04 | HAIR SALON VP-4     | CE81151       | 93            |  |  |  | 0          |
| 05 | HAIR SALON VP-4 DUP | CE81151 DUP   | 91            |  |  |  | 0          |
| 06 | VP-6 TILE STORE     | CE81150       | 97            |  |  |  | 0          |
| 07 |                     |               |               |  |  |  |            |
| 08 |                     |               |               |  |  |  |            |
| 09 |                     |               |               |  |  |  |            |
| 10 |                     |               |               |  |  |  |            |
| 11 |                     |               |               |  |  |  |            |
| 12 |                     |               |               |  |  |  |            |
| 13 |                     |               |               |  |  |  |            |
| 14 |                     |               |               |  |  |  |            |
| 15 |                     |               |               |  |  |  |            |
| 16 |                     |               |               |  |  |  |            |
| 17 |                     |               |               |  |  |  |            |
| 18 |                     |               |               |  |  |  |            |
| 19 |                     |               |               |  |  |  |            |
| 20 |                     |               |               |  |  |  |            |
| 21 |                     |               |               |  |  |  |            |
| 22 |                     |               |               |  |  |  |            |
| 23 |                     |               |               |  |  |  |            |
| 24 |                     |               |               |  |  |  |            |
| 25 |                     |               |               |  |  |  |            |
| 26 |                     |               |               |  |  |  |            |
| 27 |                     |               |               |  |  |  |            |
| 28 |                     |               |               |  |  |  |            |
| 29 |                     |               |               |  |  |  |            |
| 30 |                     |               |               |  |  |  |            |

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits  
D Surrogate diluted out

Page 46 of 384



3  
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No: \_\_\_\_\_ SAS No: \_\_\_\_\_ SDG No GCE81145

LCS - Client Id: CE81147 LCS

| COMPOUND                      | SPIKE<br>ADDED<br>(ppbv) |  | LCS<br>CONCENTRATION<br>(ppbv) | LCS<br>%<br>REC # | QC.<br>LIMITS<br>REC. |     |
|-------------------------------|--------------------------|--|--------------------------------|-------------------|-----------------------|-----|
| Propylene                     | 10                       |  | 11.82                          | 118               | 70                    | 130 |
| Dichlorodifluoromethane       | 10                       |  | 9.591                          | 96                | 70                    | 130 |
| Chloromethane                 | 10                       |  | 7.083                          | 71                | 70                    | 130 |
| 1,2-Dichlorotetrafluoroethane | 10                       |  | 9.145                          | 91                | 70                    | 130 |
| Vinyl Chloride                | 10                       |  | 9.067                          | 91                | 70                    | 130 |
| 1,3-Butadiene                 | 10                       |  | 9.491                          | 95                | 70                    | 130 |
| Bromomethane                  | 10                       |  | 9.449                          | 94                | 70                    | 130 |
| Chloroethane                  | 10                       |  | 9.155                          | 92                | 70                    | 130 |
| Ethanol                       | 8                        |  | 7.838                          | 98                | 70                    | 130 |
| Acetone                       | 10                       |  | 10.37                          | 104               | 70                    | 130 |
| Trichlorofluoromethane        | 10                       |  | 8.909                          | 89                | 70                    | 130 |
| Isopropylalcohol              | 10                       |  | 9.489                          | 95                | 70                    | 130 |
| Acrylonitrile                 | 10                       |  | 9.493                          | 95                | 70                    | 130 |
| 1,1-Dichloroethene            | 10                       |  | 9.644                          | 96                | 70                    | 130 |
| Methylene Chloride            | 10                       |  | 10.06                          | 101               | 70                    | 130 |
| Carbon Disulfide              | 10                       |  | 10.12                          | 101               | 70                    | 130 |
| Trichlorotrifluoroethane      | 10                       |  | 9.613                          | 96                | 70                    | 130 |
| Trans-1,2-Dichloroethene      | 10                       |  | 9.829                          | 98                | 70                    | 130 |
| 1,1-Dichloroethane            | 10                       |  | 10.44                          | 104               | 70                    | 130 |
| Methyl tert-butyl ether(MTBE) | 10                       |  | 9.801                          | 98                | 70                    | 130 |
| Methyl Ethyl Ketone           | 10                       |  | 13.52                          | 135 *             | 70                    | 130 |
| Cis-1,2-Dichloroethene        | 10                       |  | 11.26                          | 113               | 70                    | 130 |
| Hexane                        | 10                       |  | 11.33                          | 113               | 70                    | 130 |
| Chloroform                    | 10                       |  | 10.68                          | 107               | 70                    | 130 |
| Ethyl acetate                 | 10                       |  | 10.95                          | 110               | 70                    | 130 |
| Tetrahydrofuran               | 10                       |  | 10.37                          | 104               | 70                    | 130 |
| 1,2-Dichloroethane            | 10                       |  | 10.56                          | 106               | 70                    | 130 |
| 1,1,1-Trichloroethane         | 10                       |  | 9.805                          | 98                | 70                    | 130 |
| Benzene                       | 10                       |  | 10.31                          | 103               | 70                    | 130 |
| Carbon Tetrachloride          | 10                       |  | 10.25                          | 103               | 70                    | 130 |
| Cyclohexane                   | 10                       |  | 10.85                          | 109               | 70                    | 130 |
| 1,2-dichloropropane           | 10                       |  | 11.22                          | 112               | 70                    | 130 |
| Bromodichloromethane          | 10                       |  | 10.43                          | 104               | 70                    | 130 |
| Trichloroethene               | 10                       |  | 10.64                          | 106               | 70                    | 130 |
| 1,4-Dioxane                   | 10                       |  | 11.08                          | 111               | 70                    | 130 |
| Heptane                       | 10                       |  | 10.56                          | 106               | 70                    | 130 |
| cis-1,3-Dichloropropene       | 10                       |  | 11.14                          | 111               | 70                    | 130 |
| 4-Methyl-2-pentanone(MIBK)    | 10                       |  | 10.65                          | 107               | 70                    | 130 |
| trans-1,3-Dichloropropene     | 10                       |  | 10.16                          | 102               | 70                    | 130 |
| 1,1,2-Trichloroethane         | 10                       |  | 10.12                          | 101               | 70                    | 130 |
| Toluene                       | 10                       |  | 11.36                          | 114               | 70                    | 130 |
| Dibromochloromethane          | 10                       |  | 10.25                          | 103               | 70                    | 130 |
| 2-Hexanone(MBK)               | 10                       |  | 11.71                          | 117               | 70                    | 130 |
| 1,2-Dibromoethane(EDB)        | 10                       |  | 10.66                          | 107               | 70                    | 130 |

FORM III AIR

LCS - Client Id: CE81147 LCS

[illegible]

3  
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No:  SAS No:  SDG No GCE81145

LCS - Client Id: CE81151 LCS

| COMPOUND                      | SPIKE<br>ADDED<br>(ppbv) |  | LCS<br>CONCENTRATION<br>(ppbv) | LCS<br>%<br>REC # | QC.<br>LIMITS<br>REC. |     |
|-------------------------------|--------------------------|--|--------------------------------|-------------------|-----------------------|-----|
| Propylene                     | 10                       |  | 14.53                          | 145 *             | 70                    | 130 |
| Dichlorodifluoromethane       | 10                       |  | 9.991                          | 100               | 70                    | 130 |
| Chloromethane                 | 10                       |  | 9.797                          | 98                | 70                    | 130 |
| 1,2-Dichlorotetrafluoroethane | 10                       |  | 10.36                          | 104               | 70                    | 130 |
| Vinyl Chloride                | 10                       |  | 10.18                          | 102               | 70                    | 130 |
| 1,3-Butadiene                 | 10                       |  | 10.74                          | 107               | 70                    | 130 |
| Bromomethane                  | 10                       |  | 9.549                          | 95                | 70                    | 130 |
| Chloroethane                  | 10                       |  | 9.464                          | 95                | 70                    | 130 |
| Ethanol                       | 8                        |  | 8.956                          | 112               | 70                    | 130 |
| Acetone                       | 10                       |  | 10.59                          | 106               | 70                    | 130 |
| Trichlorofluoromethane        | 10                       |  | 8.734                          | 87                | 70                    | 130 |
| Isopropylalcohol              | 10                       |  | 9.328                          | 93                | 70                    | 130 |
| Acrylonitrile                 | 10                       |  | 10.40                          | 104               | 70                    | 130 |
| 1,1-Dichloroethene            | 10                       |  | 9.897                          | 99                | 70                    | 130 |
| Methylene Chloride            | 10                       |  | 9.828                          | 98                | 70                    | 130 |
| Carbon Disulfide              | 10                       |  | 10.42                          | 104               | 70                    | 130 |
| Trans-1,2-Dichloroethene      | 10                       |  | 10.36                          | 104               | 70                    | 130 |
| 1,1-Dichloroethane            | 10                       |  | 10.88                          | 109               | 70                    | 130 |
| Methyl tert-butyl ether(MTBE) | 10                       |  | 10.59                          | 106               | 70                    | 130 |
| Methyl Ethyl Ketone           | 10                       |  | 11.94                          | 119               | 70                    | 130 |
| Cis-1,2-Dichloroethene        | 10                       |  | 11.92                          | 119               | 70                    | 130 |
| Hexane                        | 10                       |  | 11.41                          | 114               | 70                    | 130 |
| Chloroform                    | 10                       |  | 10.94                          | 109               | 70                    | 130 |
| Ethyl acetate                 | 10                       |  | 11.54                          | 115               | 70                    | 130 |
| Tetrahydrofuran               | 10                       |  | 11.47                          | 115               | 70                    | 130 |
| 1,2-Dichloroethane            | 10                       |  | 10.88                          | 109               | 70                    | 130 |
| 1,1,1-Trichloroethane         | 10                       |  | 10.01                          | 100               | 70                    | 130 |
| Benzene                       | 10                       |  | 10.96                          | 110               | 70                    | 130 |
| Carbon Tetrachloride          | 10                       |  | 10.28                          | 103               | 70                    | 130 |
| Cyclohexane                   | 10                       |  | 11.85                          | 119               | 70                    | 130 |
| 1,2-dichloropropane           | 10                       |  | 12.04                          | 120               | 70                    | 130 |
| Bromodichloromethane          | 10                       |  | 10.63                          | 106               | 70                    | 130 |
| Trichloroethene               | 10                       |  | 11.61                          | 116               | 70                    | 130 |
| 1,4-Dioxane                   | 10                       |  | 12.29                          | 123               | 70                    | 130 |
| Heptane                       | 10                       |  | 11.68                          | 117               | 70                    | 130 |
| cis-1,3-Dichloropropene       | 10                       |  | 12.53                          | 125               | 70                    | 130 |
| 4-Methyl-2-pentanone(MIBK)    | 10                       |  | 11.78                          | 118               | 70                    | 130 |
| trans-1,3-Dichloropropene     | 10                       |  | 10.94                          | 109               | 70                    | 130 |
| 1,1,2-Trichloroethane         | 10                       |  | 10.42                          | 104               | 70                    | 130 |
| Toluene                       | 10                       |  | 12.62                          | 126               | 70                    | 130 |
| Dibromochloromethane          | 10                       |  | 10.45                          | 105               | 70                    | 130 |
| 2-Hexanone(MBK)               | 10                       |  | 12.62                          | 126               | 70                    | 130 |
| 1,2-Dibromoethane(EDB)        | 10                       |  | 11.16                          | 112               | 70                    | 130 |
| Tetrachloroethene             | 10                       |  | 11.15                          | 112               | 70                    | 130 |

FORM III AIR

LCS - Client Id: CE81151 LCS

FORM III AIR

4A  
AIR METHOD BLANK SUMMARY

Client ID

CE81147 BLANK

Lab Name: Phoenix Environmental Labs

Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: GCE81145

Lab File ID: 1206\_06.D

Lab Sample ID: CE81147 BLK

Date Analyzed: 12/06/2019

Time Analyzed: 18:05

GC Column: RTX-VMS

Lab Batch ID: 509314

Instrument ID: CHEM24

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

|    | CLIENT<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|----------------------|------------------|----------------|------------------|
| 01 | CE81147 LCS          | CE81147 LCS      | 1206_04.D      | 17:03            |
| 02 | HAIR SALON IA-4      | CE81146          | 1206_07.D      | 18:46            |
| 03 | DRY CLEANER IA-3     | CE81147          | 1206_08.D      | 19:22            |
| 04 | DRY CLEANER IA-3 DUP | CE81147 DUP      | 1206_09.D      | 19:58            |
| 05 | TILE STORE IA-6      | CE81148          | 1206_10.D      | 20:34            |
| 06 | HAIR SALON IA-4 DUP  | CE81149          | 1206_11.D      | 21:16            |
| 07 | OUTDOOR AIR          | CE81152          | 1206_12.D      | 21:52            |
| 08 |                      |                  |                |                  |
| 09 |                      |                  |                |                  |
| 10 |                      |                  |                |                  |
| 11 |                      |                  |                |                  |
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| 17 |                      |                  |                |                  |
| 18 |                      |                  |                |                  |
| 19 |                      |                  |                |                  |
| 20 |                      |                  |                |                  |

COMMENTS:

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\_\_\_\_\_

FORM IV AIR

4A  
AIR METHOD BLANK SUMMARY

Client ID

CE81151 BLANK

Lab Name: Phoenix Environmental Labs

Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: GCE81145

Lab File ID: 1208\_07.D

Lab Sample ID: CE81151 BLK

Date Analyzed: 12/09/2019

Time Analyzed: 02:32

GC Column: RTX-VMS

Lab Batch ID: 509344

Instrument ID: CHEM24

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

|    | CLIENT<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|----------------------|------------------|----------------|------------------|
| 01 | CE81151 LCS          | CE81151 LCS      | 1208_04.D      | 00:55            |
| 02 | DRY CLEANER VP-3     | CE81145          | 1208_10.D      | 09:53            |
| 03 | HAIR SALON VP-4      | CE81151          | 1208_12.D      | 11:23            |
| 04 | HAIR SALON VP-4 DUP  | CE81151 DUP      | 1208_13.D      | 11:59            |
| 05 | VP-6 TILE STORE      | CE81150          | 1208_14.D      | 13:14            |
| 06 |                      |                  |                |                  |
| 07 |                      |                  |                |                  |
| 08 |                      |                  |                |                  |
| 09 |                      |                  |                |                  |
| 10 |                      |                  |                |                  |
| 11 |                      |                  |                |                  |
| 12 |                      |                  |                |                  |
| 13 |                      |                  |                |                  |
| 14 |                      |                  |                |                  |
| 15 |                      |                  |                |                  |
| 16 |                      |                  |                |                  |
| 17 |                      |                  |                |                  |
| 18 |                      |                  |                |                  |
| 19 |                      |                  |                |                  |
| 20 |                      |                  |                |                  |

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

FORM IV AIR

5B  
AIR INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCE81145

Lab File ID: 1203\_07.D BFB Injection Date: 12/03/19

Instrument ID: CHEM24 BFB Injection Time: 16:47

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1680, 1681, 1682; Background Corrected with Scan 1672

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 8.0 - 40.0% of mass 95             | 22.1                 |
| 75  | 30.0 - 66.0% of mass 95            | 53.7                 |
| 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         | 0.5 ( 0.5 )1         |
| 174 | 50.0 - 120.0% of mass 95           | 94.5                 |
| 175 | 4.0 - 9.0% of mass 174             | 7.2 ( 6.8 )1         |
| 176 | 93.0 - 101.0% of mass 174          | 97.3 ( 91.9 )1       |
| 177 | 5.0 - 9.0% of mass 176             | 6.5 ( 6.0 )1         |

1-Value is % mass 95

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

|    | CLIENT ID  | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |  |
|----|------------|---------------|-------------|---------------|---------------|--|
| 01 | ICAL 0.02  | 0.02 ppbV     | 1203_08.D   | 12/03/19      | 17:18         |  |
| 02 | ICAL 0.035 | 0.035 ppbV    | 1203_09.D   | 12/03/19      | 17:49         |  |
| 03 | ICAL 0.05  | 0.05 ppbV     | 1203_10.D   | 12/03/19      | 18:20         |  |
| 04 | ICAL 0.1   | 0.10 ppbV     | 1203_11.D   | 12/03/19      | 18:52         |  |
| 05 | ICAL 0.5   | 0.5ppbV       | 1203_12.D   | 12/03/19      | 19:28         |  |
| 06 | ICAL 2.5   | 2.5 ppbV      | 1203_13.D   | 12/03/19      | 20:03         |  |
| 07 | ICAL 5     | 5.0 ppbV      | 1203_14.D   | 12/03/19      | 20:35         |  |
| 08 | ICAL 25    | 25 ppbV       | 1203_15.D   | 12/03/19      | 21:11         |  |
| 09 | ICAL 40    | 40            | 1203_16.D   | 12/03/19      | 21:50         |  |
| 10 | ICAL 1     | 1ppb          | 1203_18.D   | 12/03/19      | 22:53         |  |
| 11 | ICAL 0.2   | 0.2ppb        | 1203_19.D   | 12/03/19      | 23:24         |  |
| 12 | ICAL 10    | 10ppb         | 1203_20.D   | 12/04/19      | 00:43         |  |
| 13 |            |               |             |               |               |  |
| 14 |            |               |             |               |               |  |
| 15 |            |               |             |               |               |  |
| 16 |            |               |             |               |               |  |
| 17 |            |               |             |               |               |  |
| 18 |            |               |             |               |               |  |
| 19 |            |               |             |               |               |  |
| 20 |            |               |             |               |               |  |
| 21 |            |               |             |               |               |  |
| 22 |            |               |             |               |               |  |
| 23 |            |               |             |               |               |  |
| 24 |            |               |             |               |               |  |
| 25 |            |               |             |               |               |  |

(\*) Outside 24 hr clock

FORM V AIR

## CLPBFB

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_07.D  
 Acq On : 3 Dec 2019 4:47 pm  
 Operator : Keith  
 Sample : 0/0  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p  
 Integration File signal 2: rteint2.p

Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Title : VOA Standards for 5 point calibration  
 Last Update : Wed Dec 04 08:59:27 2019

AutoFind: Scans 1680, 1681, 1682; Background Corrected with Scan 1672

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 22.1  | 101624 | PASS      |
| 75     | 95      | 30     | 66     | 53.7  | 246293 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 458859 | PASS      |
| 96     | 95      | 5      | 9      | 6.8   | 31032  | PASS      |
| 173    | 174     | 0.00   | 2      | 0.5   | 2265   | PASS      |
| 174    | 95      | 50     | 120    | 94.5  | 433557 | PASS      |
| 175    | 174     | 4      | 9      | 7.2   | 31117  | PASS      |
| 176    | 174     | 93     | 101    | 97.3  | 421781 | PASS      |
| 177    | 176     | 5      | 9      | 6.5   | 27301  | PASS      |

24AIR\_1203.M Wed Dec 04 08:59:43 2019



5B  
AIR INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCE81145

Lab File ID: 1206\_01.D BFB Injection Date: 12/06/19

Instrument ID: CHEM24 BFB Injection Time: 15:09

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1678, 1679, 1680; Background Corrected with Scan 1669

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 8.0 - 40.0% of mass 95             | 21.4                 |
| 75  | 30.0 - 66.0% of mass 95            | 53.5                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0% of mass 95              | 6.5                  |
| 173 | Less than 2.0% of mass 174         | 0.5 ( 0.6 )1         |
| 174 | 50.0 - 120.0% of mass 95           | 96.6                 |
| 175 | 4.0 - 9.0% of mass 174             | 6.9 ( 6.7 )1         |
| 176 | 93.0 - 101.0% of mass 174          | 98.6 ( 95.3 )1       |
| 177 | 5.0 - 9.0% of mass 176             | 6.6 ( 6.3 )1         |

1-Value is % mass 95

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

|    | CLIENT ID            | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |  |
|----|----------------------|---------------|-------------|---------------|---------------|--|
| 01 | CCAL 1               | 1ppb cc       | 1206_01.D   | 12/06/19      | 15:09         |  |
| 02 | CE81147 LCS          | CE81147 LCS   | 1206_04.D   | 12/06/19      | 17:03         |  |
| 03 | CE81147 BLANK        | CE81147 BLANK | 1206_06.D   | 12/06/19      | 18:05         |  |
| 04 | HAIR SALON IA-4      | CE81146       | 1206_07.D   | 12/06/19      | 18:46         |  |
| 05 | DRY CLEANER IA-3     | CE81147       | 1206_08.D   | 12/06/19      | 19:22         |  |
| 06 | DRY CLEANER IA-3 DUP | CE81147 DUP   | 1206_09.D   | 12/06/19      | 19:58         |  |
| 07 | TILE STORE IA-6      | CE81148       | 1206_10.D   | 12/06/19      | 20:34         |  |
| 08 | HAIR SALON IA-4 DUP  | CE81149       | 1206_11.D   | 12/06/19      | 21:16         |  |
| 09 | OUTDOOR AIR          | CE81152       | 1206_12.D   | 12/06/19      | 21:52         |  |
| 10 |                      |               |             |               |               |  |
| 11 |                      |               |             |               |               |  |
| 12 |                      |               |             |               |               |  |
| 13 |                      |               |             |               |               |  |
| 14 |                      |               |             |               |               |  |
| 15 |                      |               |             |               |               |  |
| 16 |                      |               |             |               |               |  |
| 17 |                      |               |             |               |               |  |
| 18 |                      |               |             |               |               |  |
| 19 |                      |               |             |               |               |  |
| 20 |                      |               |             |               |               |  |
| 21 |                      |               |             |               |               |  |
| 22 |                      |               |             |               |               |  |
| 23 |                      |               |             |               |               |  |
| 24 |                      |               |             |               |               |  |
| 25 |                      |               |             |               |               |  |

(\*) Outside 24 hr clock

FORM V AIR

## CLPBFB

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_01.D  
 Acq On : 6 Dec 2019 3:09 pm  
 Operator : Keith  
 Sample : 1ppb cc  
 Misc :  
 ALS Vial : 97 Sample Multiplier: 1

Integration File signal 1: rteint.p  
 Integration File signal 2: rteint2.p

Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Title : VOA Standards for 5 point calibration  
 Last Update : Wed Dec 04 08:59:27 2019

AutoFind: Scans 1678, 1679, 1680; Background Corrected with Scan 1669

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 8               | 40              | 21.4         | 96627      | PASS                |
| 75             | 95              | 30              | 66              | 53.5         | 241408     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 451221     | PASS                |
| 96             | 95              | 5               | 9               | 6.5          | 29331      | PASS                |
| 173            | 174             | 0.00            | 2               | 0.6          | 2463       | PASS                |
| 174            | 95              | 50              | 120             | 96.6         | 435904     | PASS                |
| 175            | 174             | 4               | 9               | 6.9          | 30179      | PASS                |
| 176            | 174             | 93              | 101             | 98.6         | 429973     | PASS                |
| 177            | 176             | 5               | 9               | 6.6          | 28413      | PASS                |

24AIR\_1203.M Fri Dec 06 15:58:23 2019

5B  
AIR INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCE81145

Lab File ID: 1207\_02.D BFB Injection Date: 12/07/19

Instrument ID: CHEM24 BFB Injection Time: 16:06

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1675, 1676, 1677; Background Corrected with Scan 1667

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 8.0 - 40.0% of mass 95             | 22.2                 |
| 75  | 30.0 - 66.0% of mass 95            | 55.1                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0% of mass 95              | 6.7                  |
| 173 | Less than 2.0% of mass 174         | 0.5 ( 0.5 )1         |
| 174 | 50.0 - 120.0% of mass 95           | 95.6                 |
| 175 | 4.0 - 9.0% of mass 174             | 7.0 ( 6.7 )1         |
| 176 | 93.0 - 101.0% of mass 174          | 97.1 ( 92.8 )1       |
| 177 | 5.0 - 9.0% of mass 176             | 6.6 ( 6.1 )1         |

1-Value is % mass 95

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

|    | CLIENT ID  | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |  |
|----|------------|---------------|-------------|---------------|---------------|--|
| 01 | ICAL 0.02  | 0.02 ppbV     | 1207_03.D   | 12/07/19      | 16:38         |  |
| 02 | ICAL 0.035 | 0.035 ppbV    | 1207_04.D   | 12/07/19      | 17:10         |  |
| 03 | ICAL 0.05  | 0.05 ppbV     | 1207_05.D   | 12/07/19      | 17:42         |  |
| 04 | ICAL 0.1   | 0.10 ppbV     | 1207_06.D   | 12/07/19      | 18:14         |  |
| 05 | ICAL 0.5   | 0.5ppbV       | 1207_07.D   | 12/07/19      | 18:52         |  |
| 06 | ICAL 2.5   | 2.5 ppbV      | 1207_08.D   | 12/07/19      | 19:29         |  |
| 07 | ICAL 5     | 5.0 ppbV      | 1207_09.D   | 12/07/19      | 20:02         |  |
| 08 | ICAL 25    | 25 ppbV       | 1207_10.D   | 12/07/19      | 20:38         |  |
| 09 | ICAL 40    | 40            | 1207_11.D   | 12/07/19      | 21:18         |  |
| 10 | ICAL 1     | 1ppb          | 1207_13.D   | 12/07/19      | 22:22         |  |
| 11 | ICAL 0.2   | 0.2ppb        | 1207_14.D   | 12/07/19      | 22:56         |  |
| 12 | ICAL 10    | 10ppb         | 1207_15.D   | 12/07/19      | 23:28         |  |
| 13 |            |               |             |               |               |  |
| 14 |            |               |             |               |               |  |
| 15 |            |               |             |               |               |  |
| 16 |            |               |             |               |               |  |
| 17 |            |               |             |               |               |  |
| 18 |            |               |             |               |               |  |
| 19 |            |               |             |               |               |  |
| 20 |            |               |             |               |               |  |
| 21 |            |               |             |               |               |  |
| 22 |            |               |             |               |               |  |
| 23 |            |               |             |               |               |  |
| 24 |            |               |             |               |               |  |
| 25 |            |               |             |               |               |  |

(\*) Outside 24 hr clock

FORM V AIR

## CLPBFB

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_02.D  
 Acq On : 7 Dec 2019 4:06 pm  
 Operator : Keith  
 Sample : 0/0  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: rteint.p  
 Integration File signal 2: rteint2.p

Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Title : VOA Standards for 5 point calibration  
 Last Update : Mon Dec 09 09:45:44 2019

AutoFind: Scans 1675, 1676, 1677; Background Corrected with Scan 1667

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 22.2  | 94237  | PASS      |
| 75     | 95      | 30     | 66     | 55.1  | 233877 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 424533 | PASS      |
| 96     | 95      | 5      | 9      | 6.7   | 28456  | PASS      |
| 173    | 174     | 0.00   | 2      | 0.5   | 2082   | PASS      |
| 174    | 95      | 50     | 120    | 95.6  | 405760 | PASS      |
| 175    | 174     | 4      | 9      | 7.0   | 28445  | PASS      |
| 176    | 174     | 93     | 101    | 97.1  | 393813 | PASS      |
| 177    | 176     | 5      | 9      | 6.6   | 25901  | PASS      |

24AIR\_1207.M Mon Dec 09 09:46:55 2019

5B  
AIR INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCE81145

Lab File ID: 1208\_02.D BFB Injection Date: 12/08/19

Instrument ID: CHEM24 BFB Injection Time: 23:01

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1675, 1676, 1677; Background Corrected with Scan 1667

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 8.0 - 40.0% of mass 95             | 21.9                 |
| 75  | 30.0 - 66.0% of mass 95            | 53.8                 |
| 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         | 0.5 ( 0.5 )1         |
| 174 | 50.0 - 120.0% of mass 95           | 96.0                 |
| 175 | 4.0 - 9.0% of mass 174             | 7.0 ( 6.7 )1         |
| 176 | 93.0 - 101.0% of mass 174          | 97.9 ( 94.0 )1       |
| 177 | 5.0 - 9.0% of mass 176             | 6.8 ( 6.4 )1         |

1-Value is % mass 95

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

|    | CLIENT ID           | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |  |
|----|---------------------|---------------|-------------|---------------|---------------|--|
| 01 | CCAL 1              | 1ppb cc ; 31w | 1208_02.D   | 12/08/19      | 23:01         |  |
| 02 | CE81151 LCS         | CE81151 LCS   | 1208_04.D   | 12/09/19      | 00:55         |  |
| 03 | CE81151 BLANK       | CE81151 BLANK | 1208_07.D   | 12/09/19      | 02:32         |  |
| 04 | DRY CLEANER VP-3    | CE81145       | 1208_10.D   | 12/09/19      | 09:53         |  |
| 05 | HAIR SALON VP-4     | CE81151       | 1208_12.D   | 12/09/19      | 11:23         |  |
| 06 | HAIR SALON VP-4 DUP | CE81151 DUP   | 1208_13.D   | 12/09/19      | 11:59         |  |
| 07 | VP-6 TILE STORE     | CE81150       | 1208_14.D   | 12/09/19      | 13:14         |  |
| 08 |                     |               |             |               |               |  |
| 09 |                     |               |             |               |               |  |
| 10 |                     |               |             |               |               |  |
| 11 |                     |               |             |               |               |  |
| 12 |                     |               |             |               |               |  |
| 13 |                     |               |             |               |               |  |
| 14 |                     |               |             |               |               |  |
| 15 |                     |               |             |               |               |  |
| 16 |                     |               |             |               |               |  |
| 17 |                     |               |             |               |               |  |
| 18 |                     |               |             |               |               |  |
| 19 |                     |               |             |               |               |  |
| 20 |                     |               |             |               |               |  |
| 21 |                     |               |             |               |               |  |
| 22 |                     |               |             |               |               |  |
| 23 |                     |               |             |               |               |  |
| 24 |                     |               |             |               |               |  |
| 25 |                     |               |             |               |               |  |

(\*) Outside 24 hr clock

FORM V AIR

## CLPBFB

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_02.D  
 Acq On : 8 Dec 2019 11:01 pm  
 Operator : Keith  
 Sample : 1ppb cc ; 31w  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p  
 Integration File signal 2: rteint2.p

Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Title : VOA Standards for 5 point calibration  
 Last Update : Mon Dec 09 09:45:44 2019

AutoFind: Scans 1675, 1676, 1677; Background Corrected with Scan 1667

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 8               | 40              | 21.9         | 82115      | PASS                |
| 75             | 95              | 30              | 66              | 53.8         | 201216     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 374208     | PASS                |
| 96             | 95              | 5               | 9               | 6.8          | 25395      | PASS                |
| 173            | 174             | 0.00            | 2               | 0.5          | 1802       | PASS                |
| 174            | 95              | 50              | 120             | 96.0         | 359296     | PASS                |
| 175            | 174             | 4               | 9               | 7.0          | 25088      | PASS                |
| 176            | 174             | 93              | 101             | 97.9         | 351595     | PASS                |
| 177            | 176             | 5               | 9               | 6.8          | 23923      | PASS                |

24AIR\_1207.M Mon Dec 09 09:50:00 2019

8A  
AIR INTERNAL STANDARD AREA AND RT SUMMARY  
Full Scan

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCE81145

Lab Method / File Id: 24AIR\_1203.M / Average Date Analyzed: 12/03/19

Instrument ID: CHEM24 Time Analyzed: 22:53

GC Column: \_\_\_\_\_ ID: 0.18 (mm) Heated Purge:(Y/N) Y

|             | IS1 (BCM)<br>Area Avg # | RT Avg # | IS2 (DFB)<br>Area Avg # | RT Avg # | IS3 (CBZ)<br>Area Avg # | RT Avg # |  |  | LAB<br>FILE ID |
|-------------|-------------------------|----------|-------------------------|----------|-------------------------|----------|--|--|----------------|
| 12 HOUR STD | 342457                  | 5.54     | 926640                  | 7.45     | 521752                  | 11.00    |  |  | Average        |
| UPPER LIMIT | 481152                  | 5.87     | 1301929                 | 7.78     | 733061                  | 11.33    |  |  | Average        |
| LOWER LIMIT | 203762                  | 5.21     | 551351                  | 7.12     | 310442                  | 10.67    |  |  | Average        |
|             |                         |          |                         |          |                         |          |  |  |                |
| CLIENT ID   |                         |          |                         |          |                         |          |  |  |                |
| 01 ICAL 0.5 | 349772                  | 5.53     | 915882                  | 7.44     | 507302                  | 11.00    |  |  | 1203_12.D      |
| 02 ICAL 2.5 | 289303                  | 5.54     | 787200                  | 7.45     | 447950                  | 11.00    |  |  | 1203_13.D      |
| 03 ICAL 5   | 278195                  | 5.54     | 753611                  | 7.45     | 441851                  | 11.00    |  |  | 1203_14.D      |
| 04 ICAL 25  | 249380                  | 5.54     | 719311                  | 7.45     | 447293                  | 11.00    |  |  | 1203_15.D      |
| 05 ICAL 40  | 273999                  | 5.55     | 810564                  | 7.45     | 480343                  | 11.01    |  |  | 1203_16.D      |
| 06 ICAL 1   | 477823                  | 5.53     | 1272845                 | 7.44     | 678018                  | 11.00    |  |  | 1203_18.D      |
| 07 ICAL 0.2 | 533162 *                | 5.54     | 1341657 *               | 7.44     | 693077                  | 11.00    |  |  | 1203_19.D      |
| 08 ICAL 10  | 288023                  | 5.54     | 812049                  | 7.45     | 478178                  | 11.00    |  |  | 1203_20.D      |
| 09          |                         |          |                         |          |                         |          |  |  |                |
| 10          |                         |          |                         |          |                         |          |  |  |                |
| 11          |                         |          |                         |          |                         |          |  |  |                |
| 12          |                         |          |                         |          |                         |          |  |  |                |
| 13          |                         |          |                         |          |                         |          |  |  |                |
| 14          |                         |          |                         |          |                         |          |  |  |                |
| 15          |                         |          |                         |          |                         |          |  |  |                |
| 16          |                         |          |                         |          |                         |          |  |  |                |
| 17          |                         |          |                         |          |                         |          |  |  |                |
| 18          |                         |          |                         |          |                         |          |  |  |                |
| 19          |                         |          |                         |          |                         |          |  |  |                |
| 20          |                         |          |                         |          |                         |          |  |  |                |
| 21          |                         |          |                         |          |                         |          |  |  |                |
| 22          |                         |          |                         |          |                         |          |  |  |                |

IS1 (BCM) = Bromochloromethane  
IS2 (DFB) = 1,4-Difluorobenzene  
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area  
AREA LOWER LIMIT = - 60% of internal standard area  
RT UPPER LIMIT = +0.33 minutes of internal standard RT  
RT LOWER LIMIT = -0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
\* Values outside of QC limits.

FORM VIII VOA

8A  
AIR INTERNAL STANDARD AREA AND RT SUMMARY  
Sim Scan

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCE81145

Lab Method / File Id: 24AIR\_1203.M / Average Date Analyzed: 12/03/19

Instrument ID: CHEM24 Time Analyzed: 22:53

GC Column: \_\_\_\_\_ ID: 0.18 (mm) Heated Purge:(Y/N) Y

|               | IS1 (BCM)<br>Area Avg # | RT Avg # | IS2 (DFB)<br>Area Avg # | RT Avg # | IS3 (CBZ)<br>Area Avg # | RT Avg # |  |  | LAB<br>FILE ID |
|---------------|-------------------------|----------|-------------------------|----------|-------------------------|----------|--|--|----------------|
| 12 HOUR STD   | 400008                  | 5.53     | 1099832                 | 7.45     | 587820                  | 11.00    |  |  | Average        |
| UPPER LIMIT   | 562011                  | 5.86     | 1545264                 | 7.78     | 825887                  | 11.33    |  |  | Average        |
| LOWER LIMIT   | 238005                  | 5.20     | 654400                  | 7.12     | 349753                  | 10.67    |  |  | Average        |
|               |                         |          |                         |          |                         |          |  |  |                |
| CLIENT ID     |                         |          |                         |          |                         |          |  |  |                |
| 01 ICAL 0.02  | 449214                  | 5.54     | 1178481                 | 7.45     | 600905                  | 11.00    |  |  | 1203_08.D      |
| 02 ICAL 0.035 | 443918                  | 5.53     | 1167267                 | 7.44     | 609529                  | 11.01    |  |  | 1203_09.D      |
| 03 ICAL 0.05  | 431325                  | 5.53     | 1145358                 | 7.44     | 599821                  | 11.00    |  |  | 1203_10.D      |
| 04 ICAL 0.1   | 397091                  | 5.54     | 1063835                 | 7.45     | 567692                  | 11.00    |  |  | 1203_11.D      |
| 05 ICAL 0.5   | 367488                  | 5.54     | 1018169                 | 7.45     | 548214                  | 11.00    |  |  | 1203_12.D      |
| 06 ICAL 2.5   | 303638                  | 5.53     | 867876                  | 7.45     | 483588                  | 11.00    |  |  | 1203_13.D      |
| 07 ICAL 5     | 290194                  | 5.54     | 834648                  | 7.45     | 478847                  | 11.01    |  |  | 1203_14.D      |
| 08 ICAL 1     | 482299                  | 5.53     | 1376628                 | 7.45     | 728577                  | 11.00    |  |  | 1203_18.D      |
| 09 ICAL 0.2   | 538594                  | 5.54     | 1458617                 | 7.45     | 750723                  | 11.00    |  |  | 1203_19.D      |
| 10 ICAL 10    | 296319                  | 5.53     | 887444                  | 7.45     | 510302                  | 11.00    |  |  | 1203_20.D      |
| 11            |                         |          |                         |          |                         |          |  |  |                |
| 12            |                         |          |                         |          |                         |          |  |  |                |
| 13            |                         |          |                         |          |                         |          |  |  |                |
| 14            |                         |          |                         |          |                         |          |  |  |                |
| 15            |                         |          |                         |          |                         |          |  |  |                |
| 16            |                         |          |                         |          |                         |          |  |  |                |
| 17            |                         |          |                         |          |                         |          |  |  |                |
| 18            |                         |          |                         |          |                         |          |  |  |                |
| 19            |                         |          |                         |          |                         |          |  |  |                |
| 20            |                         |          |                         |          |                         |          |  |  |                |
| 21            |                         |          |                         |          |                         |          |  |  |                |
| 22            |                         |          |                         |          |                         |          |  |  |                |

IS1 (BCM) = Bromochloromethane  
IS2 (DFB) = 1,4-Difluorobenzene  
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area  
AREA LOWER LIMIT = - 60% of internal standard area  
RT UPPER LIMIT = +0.33 minutes of internal standard RT  
RT LOWER LIMIT = -0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
\* Values outside of QC limits.

FORM VIII VOA



8A  
AIR INTERNAL STANDARD AREA AND RT SUMMARY  
Full Scan

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCE81145

Lab Method / File Id: 24AIR\_1203.M / 1206\_01.D Date Analyzed: 12/06/19

Instrument ID: CHEM24 Time Analyzed: 15:09

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge:(Y/N) Y

|                         | IS1 (BCM)<br>AREA # | RT # | IS2 (DFB)<br>AREA # | RT # | IS3 (CBZ)<br>AREA # | RT #  |  |  | LAB<br>FILE ID |
|-------------------------|---------------------|------|---------------------|------|---------------------|-------|--|--|----------------|
| 12 HOUR STD             | 383702              | 5.50 | 997765              | 7.42 | 554032              | 10.99 |  |  | 1206_01.D      |
| UPPER LIMIT             | 539101              | 5.83 | 1401860             | 7.75 | 778415              | 11.32 |  |  | 1206_01.D      |
| LOWER LIMIT             | 228303              | 5.17 | 593670              | 7.09 | 329649              | 10.66 |  |  | 1206_01.D      |
|                         |                     |      |                     |      |                     |       |  |  |                |
| CLIENT ID               |                     |      |                     |      |                     |       |  |  |                |
| 01 CCAL 1               | 383702              | 5.50 | 997765              | 7.42 | 554032              | 10.99 |  |  | 1206_01.D      |
| 02 CE81147 LCS          | 307923              | 5.51 | 860831              | 7.43 | 520003              | 10.99 |  |  | 1206_04.D      |
| 03 CE81147 BLANK        | 609120 *            | 5.50 | 1423604 *           | 7.42 | 719237              | 10.99 |  |  | 1206_06.D      |
| 04 HAIR SALON IA-4      | 389109              | 5.51 | 1075964             | 7.42 | 615076              | 10.99 |  |  | 1206_07.D      |
| 05 DRY CLEANER IA-3     | 406976              | 5.51 | 977288              | 7.42 | 623786              | 10.98 |  |  | 1206_08.D      |
| 06 DRY CLEANER IA-3 DUP | 461409              | 5.50 | 1084939             | 7.42 | 685798              | 10.99 |  |  | 1206_09.D      |
| 07 TILE STORE IA-6      | 471373              | 5.51 | 1239863             | 7.42 | 698315              | 10.98 |  |  | 1206_10.D      |
| 08 HAIR SALON IA-4 DUP  | 460297              | 5.50 | 1287716             | 7.42 | 710247              | 10.98 |  |  | 1206_11.D      |
| 09 OUTDOOR AIR          | 530795              | 5.50 | 1378045             | 7.42 | 733737              | 10.98 |  |  | 1206_12.D      |
| 10                      |                     |      |                     |      |                     |       |  |  |                |
| 11                      |                     |      |                     |      |                     |       |  |  |                |
| 12                      |                     |      |                     |      |                     |       |  |  |                |
| 13                      |                     |      |                     |      |                     |       |  |  |                |
| 14                      |                     |      |                     |      |                     |       |  |  |                |
| 15                      |                     |      |                     |      |                     |       |  |  |                |
| 16                      |                     |      |                     |      |                     |       |  |  |                |
| 17                      |                     |      |                     |      |                     |       |  |  |                |
| 18                      |                     |      |                     |      |                     |       |  |  |                |
| 19                      |                     |      |                     |      |                     |       |  |  |                |
| 20                      |                     |      |                     |      |                     |       |  |  |                |
| 21                      |                     |      |                     |      |                     |       |  |  |                |
| 22                      |                     |      |                     |      |                     |       |  |  |                |

IS1 (BCM) = Bromochloromethane  
IS2 (DFB) = 1,4-Difluorobenzene  
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area  
AREA LOWER LIMIT = - 60% of internal standard area  
RT UPPER LIMIT = +0.33 minutes of internal standard RT  
RT LOWER LIMIT = -0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
\* Values outside of QC limits.

FORM VIII VOA

8A  
AIR INTERNAL STANDARD AREA AND RT SUMMARY  
Sim Scan

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCE81145

Lab Method / File Id: 24AIR\_1203.M / 1206\_01.D Date Analyzed: 12/06/19

Instrument ID: CHEM24 Time Analyzed: 15:09

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge:(Y/N) Y

|                         | IS1 (BCM)<br>AREA # | RT # | IS2 (DFB)<br>AREA # | RT # | IS3 (CBZ)<br>AREA # | RT #  |  |  | LAB<br>FILE ID |
|-------------------------|---------------------|------|---------------------|------|---------------------|-------|--|--|----------------|
| 12 HOUR STD             | 398762              | 5.51 | 1105557             | 7.42 | 604568              | 10.99 |  |  | 1206_01.D      |
| UPPER LIMIT             | 560261              | 5.84 | 1553308             | 7.75 | 849418              | 11.32 |  |  | 1206_01.D      |
| LOWER LIMIT             | 237263              | 5.18 | 657806              | 7.09 | 359718              | 10.66 |  |  | 1206_01.D      |
|                         |                     |      |                     |      |                     |       |  |  |                |
| CLIENT ID               |                     |      |                     |      |                     |       |  |  |                |
| 01 CCAL 1               | 398762              | 5.51 | 1105557             | 7.42 | 604568              | 10.99 |  |  | 1206_01.D      |
| 02 CE81147 LCS          | 321222              | 5.51 | 953222              | 7.43 | 554549              | 10.99 |  |  | 1206_04.D      |
| 03 CE81147 BLANK        | 619636 *            | 5.51 | 1551867             | 7.43 | 779664              | 10.98 |  |  | 1206_06.D      |
| 04 HAIR SALON IA-4      | 399602              | 5.51 | 1183763             | 7.42 | 671016              | 10.99 |  |  | 1206_07.D      |
| 05 DRY CLEANER IA-3     | 424699              | 5.50 | 1074241             | 7.42 | 679881              | 10.99 |  |  | 1206_08.D      |
| 06 DRY CLEANER IA-3 DUP | 473575              | 5.51 | 1184173             | 7.43 | 738656              | 10.98 |  |  | 1206_09.D      |
| 07 TILE STORE IA-6      | 483052              | 5.50 | 1350334             | 7.42 | 757257              | 10.99 |  |  | 1206_10.D      |
| 08 HAIR SALON IA-4 DUP  | 471040              | 5.50 | 1397609             | 7.42 | 770210              | 10.98 |  |  | 1206_11.D      |
| 09 OUTDOOR AIR          | 546067              | 5.50 | 1495837             | 7.42 | 791417              | 10.98 |  |  | 1206_12.D      |
| 10                      |                     |      |                     |      |                     |       |  |  |                |
| 11                      |                     |      |                     |      |                     |       |  |  |                |
| 12                      |                     |      |                     |      |                     |       |  |  |                |
| 13                      |                     |      |                     |      |                     |       |  |  |                |
| 14                      |                     |      |                     |      |                     |       |  |  |                |
| 15                      |                     |      |                     |      |                     |       |  |  |                |
| 16                      |                     |      |                     |      |                     |       |  |  |                |
| 17                      |                     |      |                     |      |                     |       |  |  |                |
| 18                      |                     |      |                     |      |                     |       |  |  |                |
| 19                      |                     |      |                     |      |                     |       |  |  |                |
| 20                      |                     |      |                     |      |                     |       |  |  |                |
| 21                      |                     |      |                     |      |                     |       |  |  |                |
| 22                      |                     |      |                     |      |                     |       |  |  |                |

IS1 (BCM) = Bromochloromethane  
IS2 (DFB) = 1,4-Difluorobenzene  
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area  
AREA LOWER LIMIT = - 60% of internal standard area  
RT UPPER LIMIT = +0.33 minutes of internal standard RT  
RT LOWER LIMIT = -0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
\* Values outside of QC limits.

FORM VIII VOA

8A  
AIR INTERNAL STANDARD AREA AND RT SUMMARY  
Full Scan

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCE81145

Lab Method / File Id: 24AIR\_1207.M / Average Date Analyzed: 12/07/19

Instrument ID: CHEM24 Time Analyzed: 22:22

GC Column: \_\_\_\_\_ ID: 0.18 (mm) Heated Purge:(Y/N) Y

|             | IS1 (BCM)<br>Area Avg # | RT Avg # | IS2 (DFB)<br>Area Avg # | RT Avg # | IS3 (CBZ)<br>Area Avg # | RT Avg # |  |  | LAB<br>FILE ID |
|-------------|-------------------------|----------|-------------------------|----------|-------------------------|----------|--|--|----------------|
| 12 HOUR STD | 300903                  | 5.48     | 793974                  | 7.40     | 456800                  | 10.97    |  |  | Average        |
| UPPER LIMIT | 422769                  | 5.81     | 1115534                 | 7.73     | 641803                  | 11.30    |  |  | Average        |
| LOWER LIMIT | 179037                  | 5.15     | 472415                  | 7.07     | 271796                  | 10.64    |  |  | Average        |
|             |                         |          |                         |          |                         |          |  |  |                |
| CLIENT ID   |                         |          |                         |          |                         |          |  |  |                |
| 01 ICAL 0.5 | 331885                  | 5.47     | 846830                  | 7.40     | 474541                  | 10.97    |  |  | 1207_07.D      |
| 02 ICAL 2.5 | 289810                  | 5.47     | 748672                  | 7.40     | 434858                  | 10.97    |  |  | 1207_08.D      |
| 03 ICAL 5   | 267496                  | 5.47     | 715128                  | 7.40     | 416889                  | 10.97    |  |  | 1207_09.D      |
| 04 ICAL 25  | 231027                  | 5.48     | 640431                  | 7.40     | 410799                  | 10.97    |  |  | 1207_10.D      |
| 05 ICAL 40  | 254707                  | 5.49     | 724277                  | 7.40     | 443605                  | 10.97    |  |  | 1207_11.D      |
| 06 ICAL 1   | 393482                  | 5.47     | 1030453                 | 7.40     | 546106                  | 10.96    |  |  | 1207_13.D      |
| 07 ICAL 0.2 | 392207                  | 5.47     | 989991                  | 7.39     | 528393                  | 10.97    |  |  | 1207_14.D      |
| 08 ICAL 10  | 246610                  | 5.49     | 656013                  | 7.40     | 399206                  | 10.97    |  |  | 1207_15.D      |
| 09          |                         |          |                         |          |                         |          |  |  |                |
| 10          |                         |          |                         |          |                         |          |  |  |                |
| 11          |                         |          |                         |          |                         |          |  |  |                |
| 12          |                         |          |                         |          |                         |          |  |  |                |
| 13          |                         |          |                         |          |                         |          |  |  |                |
| 14          |                         |          |                         |          |                         |          |  |  |                |
| 15          |                         |          |                         |          |                         |          |  |  |                |
| 16          |                         |          |                         |          |                         |          |  |  |                |
| 17          |                         |          |                         |          |                         |          |  |  |                |
| 18          |                         |          |                         |          |                         |          |  |  |                |
| 19          |                         |          |                         |          |                         |          |  |  |                |
| 20          |                         |          |                         |          |                         |          |  |  |                |
| 21          |                         |          |                         |          |                         |          |  |  |                |
| 22          |                         |          |                         |          |                         |          |  |  |                |

IS1 (BCM) = Bromochloromethane  
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AREA UPPER LIMIT = +140% of internal standard area  
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RT LOWER LIMIT = -0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
\* Values outside of QC limits.

FORM VIII VOA

8A  
AIR INTERNAL STANDARD AREA AND RT SUMMARY  
Sim Scan

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.:                      SAS No.:                      SDG No.: GCE81145

Lab Method / File Id: 24AIR\_1207.M / Average Date Analyzed: 12/07/19

Instrument ID: CHEM24 Time Analyzed: 22:22

GC Column:                      ID: 0.18 (mm) Heated Purge:(Y/N) Y

|               | IS1 (BCM)<br>Area Avg # | RT Avg # | IS2 (DFB)<br>Area Avg # | RT Avg # | IS3 (CBZ)<br>Area Avg # | RT Avg # |  |  | LAB<br>FILE ID |
|---------------|-------------------------|----------|-------------------------|----------|-------------------------|----------|--|--|----------------|
| 12 HOUR STD   | 364166                  | 5.47     | 984319                  | 7.40     | 525463                  | 10.97    |  |  | Average        |
| UPPER LIMIT   | 511653                  | 5.80     | 1382968                 | 7.73     | 738275                  | 11.30    |  |  | Average        |
| LOWER LIMIT   | 216679                  | 5.14     | 585670                  | 7.07     | 312650                  | 10.64    |  |  | Average        |
|               |                         |          |                         |          |                         |          |  |  |                |
| CLIENT ID     |                         |          |                         |          |                         |          |  |  |                |
| 01 ICAL 0.02  | 420237                  | 5.48     | 1093388                 | 7.40     | 567751                  | 10.97    |  |  | 1207_03.D      |
| 02 ICAL 0.035 | 423274                  | 5.47     | 1097836                 | 7.40     | 565008                  | 10.97    |  |  | 1207_04.D      |
| 03 ICAL 0.05  | 414378                  | 5.47     | 1082467                 | 7.40     | 561964                  | 10.97    |  |  | 1207_05.D      |
| 04 ICAL 0.1   | 381526                  | 5.47     | 1016170                 | 7.40     | 523213                  | 10.97    |  |  | 1207_06.D      |
| 05 ICAL 0.5   | 348492                  | 5.47     | 944798                  | 7.39     | 517501                  | 10.97    |  |  | 1207_07.D      |
| 06 ICAL 2.5   | 301902                  | 5.47     | 840431                  | 7.40     | 474257                  | 10.97    |  |  | 1207_08.D      |
| 07 ICAL 5     | 281886                  | 5.48     | 795985                  | 7.40     | 449514                  | 10.97    |  |  | 1207_09.D      |
| 08 ICAL 1     | 407685                  | 5.47     | 1136624                 | 7.40     | 590777                  | 10.97    |  |  | 1207_13.D      |
| 09 ICAL 0.2   | 405593                  | 5.47     | 1101675                 | 7.40     | 576739                  | 10.96    |  |  | 1207_14.D      |
| 10 ICAL 10    | 256686                  | 5.49     | 733812                  | 7.40     | 427901                  | 10.97    |  |  | 1207_15.D      |
| 11            |                         |          |                         |          |                         |          |  |  |                |
| 12            |                         |          |                         |          |                         |          |  |  |                |
| 13            |                         |          |                         |          |                         |          |  |  |                |
| 14            |                         |          |                         |          |                         |          |  |  |                |
| 15            |                         |          |                         |          |                         |          |  |  |                |
| 16            |                         |          |                         |          |                         |          |  |  |                |
| 17            |                         |          |                         |          |                         |          |  |  |                |
| 18            |                         |          |                         |          |                         |          |  |  |                |
| 19            |                         |          |                         |          |                         |          |  |  |                |
| 20            |                         |          |                         |          |                         |          |  |  |                |
| 21            |                         |          |                         |          |                         |          |  |  |                |
| 22            |                         |          |                         |          |                         |          |  |  |                |

IS1 (BCM) = Bromochloromethane  
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AREA UPPER LIMIT = +140% of internal standard area  
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# Column used to flag values outside QC limits with an asterisk.  
\* Values outside of QC limits.

FORM VIII VOA

8A  
AIR INTERNAL STANDARD AREA AND RT SUMMARY  
Full Scan

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCE81145

Lab Method / File Id: 24AIR\_1207.M / 1208\_02.D Date Analyzed: 12/08/19

Instrument ID: CHEM24 Time Analyzed: 23:01

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge:(Y/N) Y

|                        | IS1 (BCM)<br>AREA # | RT # | IS2 (DFB)<br>AREA # | RT # | IS3 (CBZ)<br>AREA # | RT #  |  |  | LAB<br>FILE ID |
|------------------------|---------------------|------|---------------------|------|---------------------|-------|--|--|----------------|
| 12 HOUR STD            | 310891              | 5.47 | 806456              | 7.40 | 442586              | 10.97 |  |  | 1208_02.D      |
| UPPER LIMIT            | 436802              | 5.80 | 1133071             | 7.73 | 621833              | 11.30 |  |  | 1208_02.D      |
| LOWER LIMIT            | 184980              | 5.14 | 479841              | 7.07 | 263339              | 10.64 |  |  | 1208_02.D      |
|                        |                     |      |                     |      |                     |       |  |  |                |
| CLIENT ID              |                     |      |                     |      |                     |       |  |  |                |
| 01 CCAL 1              | 310891              | 5.47 | 806456              | 7.40 | 442586              | 10.97 |  |  | 1208_02.D      |
| 02 CE81151 LCS         | 242609              | 5.48 | 667018              | 7.41 | 389405              | 10.97 |  |  | 1208_04.D      |
| 03 CE81151 BLANK       | 418981              | 5.48 | 1033780             | 7.40 | 508460              | 10.97 |  |  | 1208_07.D      |
| 04 DRY CLEANER VP-3    | 349117              | 5.49 | 942500              | 7.41 | 483297              | 10.98 |  |  | 1208_10.D      |
| 05 HAIR SALON VP-4     | 382562              | 5.50 | 1060015             | 7.42 | 563819              | 10.98 |  |  | 1208_12.D      |
| 06 HAIR SALON VP-4 DUP | 385079              | 5.50 | 1075810             | 7.42 | 561243              | 10.98 |  |  | 1208_13.D      |
| 07 VP-6 TILE STORE     | 369612              | 5.50 | 1033784             | 7.42 | 526282              | 10.98 |  |  | 1208_14.D      |
| 08                     |                     |      |                     |      |                     |       |  |  |                |
| 09                     |                     |      |                     |      |                     |       |  |  |                |
| 10                     |                     |      |                     |      |                     |       |  |  |                |
| 11                     |                     |      |                     |      |                     |       |  |  |                |
| 12                     |                     |      |                     |      |                     |       |  |  |                |
| 13                     |                     |      |                     |      |                     |       |  |  |                |
| 14                     |                     |      |                     |      |                     |       |  |  |                |
| 15                     |                     |      |                     |      |                     |       |  |  |                |
| 16                     |                     |      |                     |      |                     |       |  |  |                |
| 17                     |                     |      |                     |      |                     |       |  |  |                |
| 18                     |                     |      |                     |      |                     |       |  |  |                |
| 19                     |                     |      |                     |      |                     |       |  |  |                |
| 20                     |                     |      |                     |      |                     |       |  |  |                |
| 21                     |                     |      |                     |      |                     |       |  |  |                |
| 22                     |                     |      |                     |      |                     |       |  |  |                |

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FORM VIII VOA

8A  
AIR INTERNAL STANDARD AREA AND RT SUMMARY  
Sim Scan

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCE81145

Lab Method / File Id: 24AIR\_1207.M / 1208\_02.D Date Analyzed: 12/08/19

Instrument ID: CHEM24 Time Analyzed: 23:01

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge:(Y/N) Y

|                        | IS1 (BCM)<br>AREA # | RT # | IS2 (DFB)<br>AREA # | RT # | IS3 (CBZ)<br>AREA # | RT #  |  |  | LAB<br>FILE ID |
|------------------------|---------------------|------|---------------------|------|---------------------|-------|--|--|----------------|
| 12 HOUR STD            | 324293              | 5.48 | 904937              | 7.40 | 480002              | 10.97 |  |  | 1208_02.D      |
| UPPER LIMIT            | 455632              | 5.81 | 1271436             | 7.73 | 674403              | 11.30 |  |  | 1208_02.D      |
| LOWER LIMIT            | 192954              | 5.15 | 538438              | 7.07 | 285601              | 10.64 |  |  | 1208_02.D      |
|                        |                     |      |                     |      |                     |       |  |  |                |
| CLIENT ID              |                     |      |                     |      |                     |       |  |  |                |
| 01 CCAL 1              | 324293              | 5.48 | 904937              | 7.40 | 480002              | 10.97 |  |  | 1208_02.D      |
| 02 CE81151 LCS         | 252308              | 5.49 | 745016              | 7.40 | 417900              | 10.98 |  |  | 1208_04.D      |
| 03 CE81151 BLANK       | 433132              | 5.48 | 1134246             | 7.40 | 556729              | 10.97 |  |  | 1208_07.D      |
| 04 DRY CLEANER VP-3    | 359850              | 5.49 | 1051739             | 7.41 | 529169              | 10.98 |  |  | 1208_10.D      |
| 05 HAIR SALON VP-4     | 395840              | 5.50 | 1167366             | 7.42 | 615192              | 10.99 |  |  | 1208_12.D      |
| 06 HAIR SALON VP-4 DUP | 396311              | 5.50 | 1182210             | 7.42 | 609393              | 10.98 |  |  | 1208_13.D      |
| 07 VP-6 TILE STORE     | 385251              | 5.50 | 1140798             | 7.42 | 566041              | 10.99 |  |  | 1208_14.D      |
| 08                     |                     |      |                     |      |                     |       |  |  |                |
| 09                     |                     |      |                     |      |                     |       |  |  |                |
| 10                     |                     |      |                     |      |                     |       |  |  |                |
| 11                     |                     |      |                     |      |                     |       |  |  |                |
| 12                     |                     |      |                     |      |                     |       |  |  |                |
| 13                     |                     |      |                     |      |                     |       |  |  |                |
| 14                     |                     |      |                     |      |                     |       |  |  |                |
| 15                     |                     |      |                     |      |                     |       |  |  |                |
| 16                     |                     |      |                     |      |                     |       |  |  |                |
| 17                     |                     |      |                     |      |                     |       |  |  |                |
| 18                     |                     |      |                     |      |                     |       |  |  |                |
| 19                     |                     |      |                     |      |                     |       |  |  |                |
| 20                     |                     |      |                     |      |                     |       |  |  |                |
| 21                     |                     |      |                     |      |                     |       |  |  |                |
| 22                     |                     |      |                     |      |                     |       |  |  |                |

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\* Values outside of QC limits.

FORM VIII VOA

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

DRY CLEANER VP-3

|              |                 |                  |                          |
|--------------|-----------------|------------------|--------------------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CE81145</u>           |
| Canister:    | <u>12854</u>    | Lab File ID:     | <u>1208_10.D</u>         |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u>RTX-VMS</u>           |
|              |                 | Date Received:   | <u>12/05/19</u>          |
| Purge Volume | <u>200</u> (cc) | Date Analyzed:   | <u>12/09/19</u>          |
| Matrix:      | <u>AIR</u>      | Dilution Factor: | <u>1</u>                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                           | CONC. | Q | MDL   | PQL   | R |
|-------------|------------------------------------|-------|---|-------|-------|---|
| 115-07-1    | Propylene                          | 0.581 | U | 0.581 | 0.581 | r |
| 75-71-8     | Dichlorodifluoromethane            | 0.352 |   | 0.202 | 0.202 | r |
| 74-87-3     | Chloromethane                      | 0.485 | U | 0.485 | 0.485 | r |
| 106-99-0    | 1,3-Butadiene                      | 0.452 | U | 0.452 | 0.452 | r |
| 75-00-3     | Chloroethane                       | 0.379 | U | 0.379 | 0.379 | r |
| 64-17-5     | Ethanol                            | 26.9  | S | 0.531 | 0.531 | r |
| 67-64-1     | Acetone                            | 13.0  | S | 0.421 | 0.421 | r |
| 75-69-4     | Trichlorofluoromethane             | 0.273 |   | 0.178 | 0.178 | r |
| 67-63-0     | Isopropylalcohol                   | 0.774 | S | 0.407 | 0.407 | r |
| 107-13-1    | Acrylonitrile                      | 0.461 | U | 0.461 | 0.461 | r |
| 75-09-2     | Methylene Chloride                 | 0.864 | U | 0.864 | 0.864 | r |
| 75-15-0     | Carbon Disulfide                   | 0.321 | U | 0.321 | 0.321 | r |
| 1634-04-4   | Methyl tert-butyl ether(MTBE)      | 0.278 | U | 0.278 | 0.278 | r |
| 78-93-3     | Methyl Ethyl Ketone                | 0.435 |   | 0.339 | 0.339 | r |
| 110-54-3    | Hexane                             | 0.284 | U | 0.284 | 0.284 | r |
| 141-78-6    | Ethyl acetate                      | 0.278 | U | 0.278 | 0.278 | r |
| 109-99-9    | Tetrahydrofuran                    | 0.339 | U | 0.339 | 0.339 | r |
| 71-43-2     | Benzene                            | 0.313 | U | 0.313 | 0.313 | r |
| 110-82-7    | Cyclohexane                        | 0.291 | U | 0.291 | 0.291 | r |
| 79-01-6     | Trichloroethene                    | 0.755 |   | 0.037 | 0.037 | r |
| 142-82-5    | Heptane                            | 0.244 | U | 0.244 | 0.244 | r |
| 108-10-1    | 4-Methyl-2-pentanone(MIBK)         | 0.244 | U | 0.244 | 0.244 | r |
| 10061-02-6  | trans-1,3-Dichloropropene          | 0.221 | U | 0.221 | 0.221 | r |
| 108-88-3    | Toluene                            | 6.45  |   | 0.266 | 0.266 | r |
| 591-78-6    | 2-Hexanone(MBK)                    | 0.244 | U | 0.244 | 0.244 | r |
| 127-18-4    | Tetrachloroethene                  | 30.6  |   | 0.037 | 0.037 | r |
| 108-90-7    | Chlorobenzene                      | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4    | Ethylbenzene                       | 0.778 |   | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene                         | 3.00  |   | 0.230 | 0.230 | r |
| 100-42-5    | Styrene                            | 1.48  |   | 0.235 | 0.235 | r |
| 95-47-6     | o-Xylene                           | 1.55  |   | 0.230 | 0.230 | r |
| 98-82-8     | Isopropylbenzene                   | 3.81  |   | 0.204 | 0.204 | r |
| 622-96-8    | 4-Ethyltoluene                     | 0.465 |   | 0.204 | 0.204 | r |
| 108-67-8    | 1,3,5-Trimethylbenzene             | 0.204 | U | 0.204 | 0.204 | r |
| 95-63-6     | 1,2,4-Trimethylbenzene             | 0.512 |   | 0.204 | 0.204 | r |
| 76-14-2     | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U | 0.143 | 0.143 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

DRY CLEANER VP-3

|              |          |                  |                   |
|--------------|----------|------------------|-------------------|
| Client:      | CEG      | Lab:             | Phoenix Env. Labs |
| SDG No.:     | GCE81145 | Lab Sample ID:   | CE81145           |
| Canister:    | 12854    | Lab File ID:     | 1208_10.D         |
| Instrument:  | CHEM24   | Column:          | RTX-VMS           |
|              |          | Date Received:   | 12/05/19          |
| Purge Volume | 200 (cc) | Date Analyzed:   | 12/09/19          |
| Matrix:      | AIR      | Dilution Factor: | 1                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|------------|--------------------------------|-------|---|-------|-------|---|
| 75-01-4    | Vinyl Chloride(sim)            | 0.078 | U | 0.078 | 0.078 | r |
| 74-83-9    | Bromomethane(sim)              | 0.258 | U | 0.258 | 0.258 | r |
| 71-55-6    | 1,1,1-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 56-23-5    | Carbon Tetrachloride(sim)      | 0.070 |   | 0.032 | 0.032 | r |
| 75-35-4    | 1,1-Dichloroethene(sim)        | 0.051 | U | 0.051 | 0.051 | r |
| 76-13-1    | Trichlorotrifluoroethane(sim)  | 0.131 | U | 0.131 | 0.131 | r |
| 156-60-5   | Trans-1,2-Dichloroethene(sim)  | 0.252 | U | 0.252 | 0.252 | r |
| 75-34-3    | 1,1-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 156-59-2   | Cis-1,2-Dichloroethene(sim)    | 0.051 | U | 0.051 | 0.051 | r |
| 67-66-3    | Chloroform(sim)                | 0.205 | U | 0.205 | 0.205 | r |
| 107-06-2   | 1,2-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 78-87-5    | 1,2-dichloropropane(sim)       | 0.217 | U | 0.217 | 0.217 | r |
| 75-27-4    | Bromodichloromethane(sim)      | 0.149 | U | 0.149 | 0.149 | r |
| 123-91-1   | 1,4-Dioxane(sim)               | 0.278 | U | 0.278 | 0.278 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim)   | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5    | 1,1,2-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1   | Dibromochloromethane(sim)      | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4   | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2    | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6   | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 79-34-5    | 1,1,2,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 100-44-7   | Benzyl chloride(sim)           | 0.193 | U | 0.193 | 0.193 | r |
| 541-73-1   | 1,3-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 106-46-7   | 1,4-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 135-98-8   | sec-Butylbenzene(sim)          | 0.182 | U | 0.182 | 0.182 | r |
| 99-87-6    | 4-Isopropyltoluene(sim)        | 0.182 | U | 0.182 | 0.182 | r |
| 95-50-1    | 1,2-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 104-51-8   | n-Butylbenzene(sim)            | 0.182 | U | 0.182 | 0.182 | r |
| 120-82-1   | 1,2,4-Trichlorobenzene(sim)    | 0.135 | U | 0.135 | 0.135 | r |
| 87-68-3    | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent



Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_10.D  
 Acq On : 9 Dec 2019 9:53 am  
 Operator : Keith  
 Client ID : DRY CLEANER VP-3  
 Lab ID : CE81145  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 09 12:02:06 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

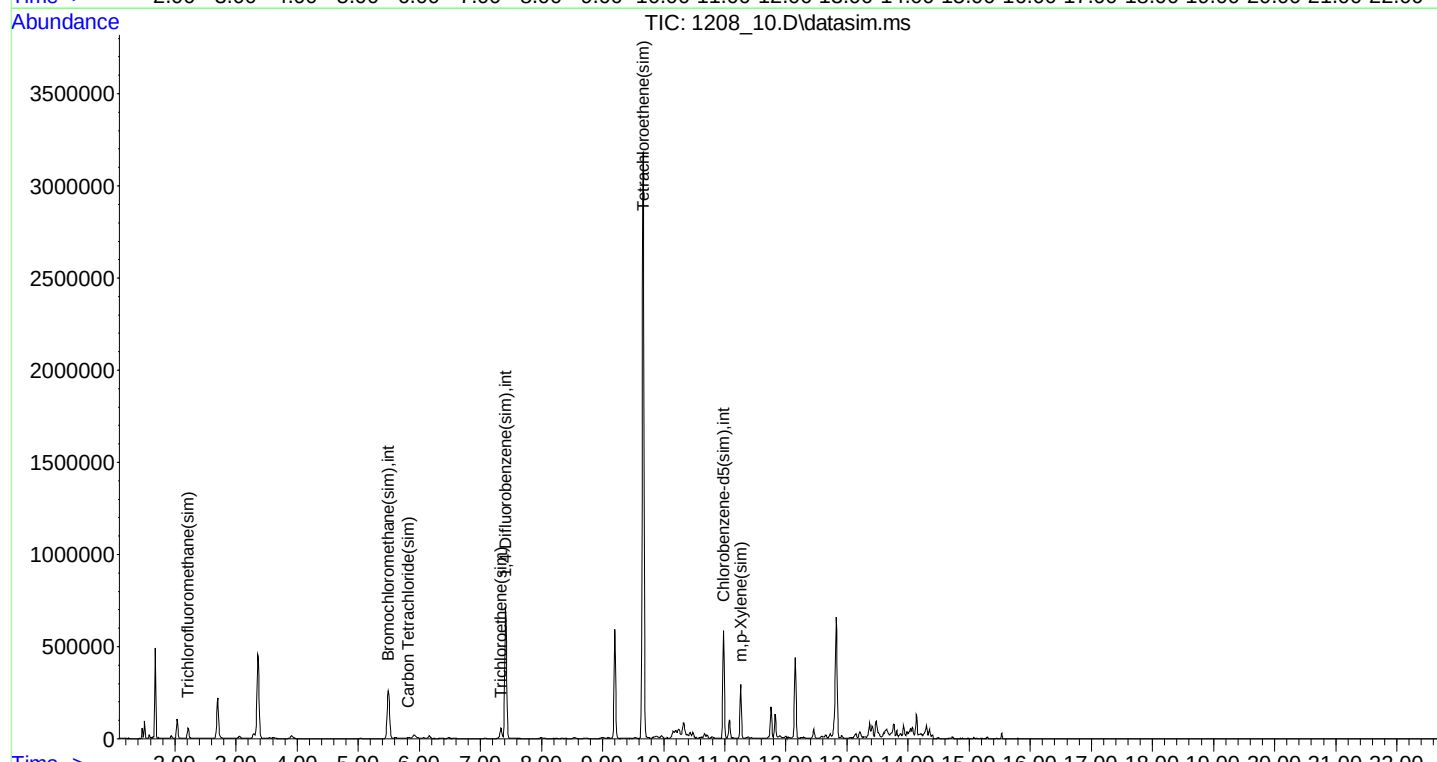
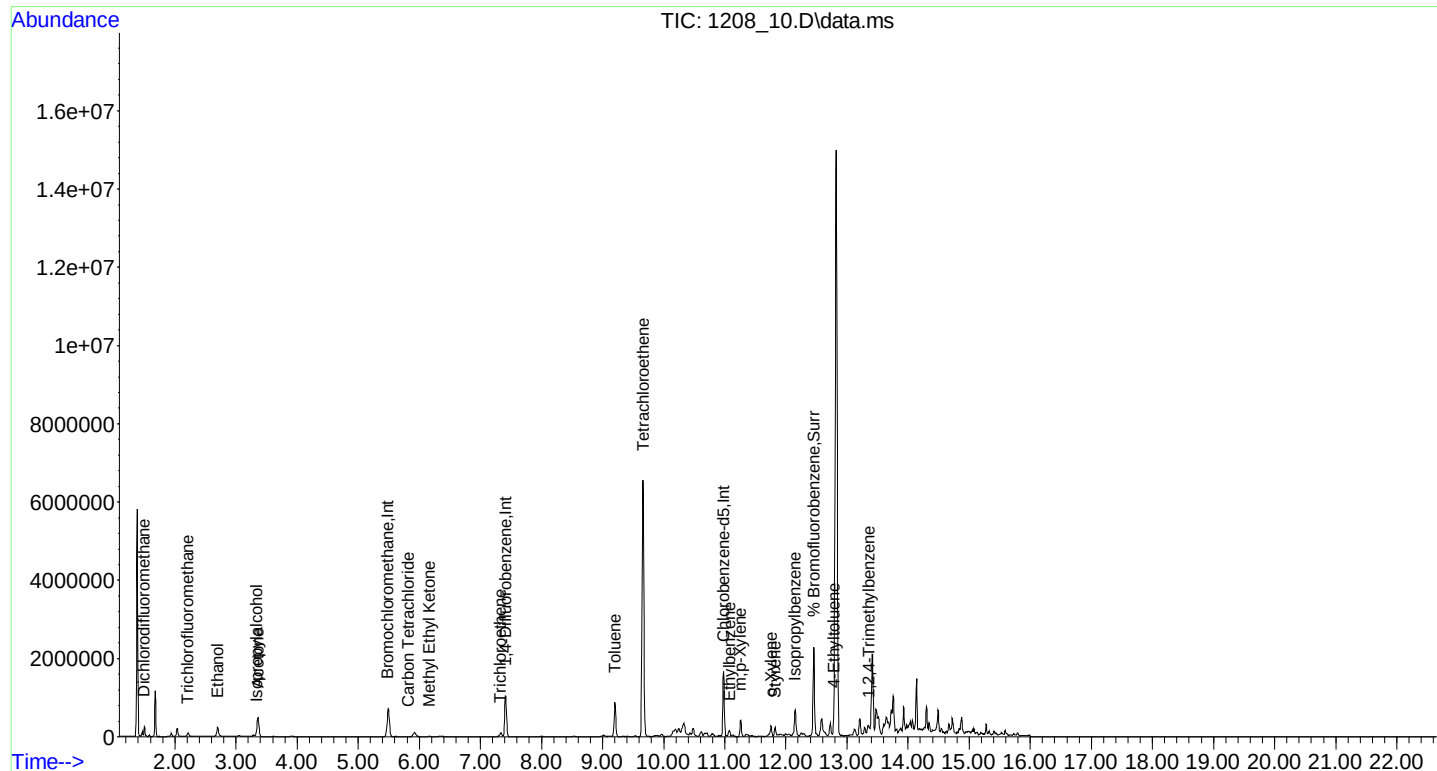
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.489  | 130   | 349117   | 10.000   | ng     | 0.01     |
| 36) 1,4-Difluorobenzene       | 7.409  | 114   | 942500   | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5          | 10.981 | 82    | 483297   | 10.000   | ng     | 0.01     |
| 80) Bromochloromethane(sim)   | 5.492  | 130   | 359850   | 10.000   | ng     | # 0.01   |
| 94) 1,4-Difluorobenzene(sim)  | 7.411  | 114   | 1051739  | 10.000   | ng     | # 0.01   |
| 104) Chlorobenzene-d5(sim)    | 10.984 | 82    | 529169   | 10.000   | ng     | 0.01     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 12.458 | 95    | 700366   | 9.415    | ppbv   | 0.01     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 94.10%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane    | 1.499  | 101   | 5440     | 0.352    | ppbv#  | 83       |
| 10) Ethanol                   | 2.697  | 45    | 250431   | 26.910   | ppbv#  | 63       |
| 12) Acetone                   | 3.361  | 43    | 715442   | 12.981   | ppbv#  | 84       |
| 13) Trichlorofluoromethane    | 2.211  | 101   | 35584    | 0.273    | ppbv#  | 83       |
| 14) Isopropylalcohol          | 3.333  | 45    | 41103    | 0.774    | ppbv#  | 1        |
| 25) Methyl Ethyl Ketone       | 6.167  | 43    | 24951    | 0.435    | ppbv#  | 49       |
| 34) Carbon Tetrachloride      | 5.821  | 117   | 6962     | 0.068    | ppbv   | 96       |
| 39) Trichloroethene           | 7.333  | 130   | 36641    | 0.755    | ppbv   | 94       |
| 48) Toluene                   | 9.200  | 91    | 628820   | 6.451    | ppbv   | 90       |
| 52) Tetrachloroethene         | 9.662  | 166   | 2124419  | 30.640   | ppbv   | 94       |
| 56) Ethylbenzene              | 11.077 | 91    | 87586    | 0.778    | ppbv   | 87       |
| 57) m, p-Xylene               | 11.262 | 91    | 240135   | 2.999    | ppbv#  | 93       |
| 59) Styrene                   | 11.825 | 104   | 90095    | 1.483    | ppbv#  | 38       |
| 61) o-Xylene                  | 11.756 | 91    | 143435   | 1.545    | ppbv#  | 87       |
| 64) Isopropylbenzene          | 12.153 | 105   | 431024   | 3.812    | ppbv   | 97       |
| 66) 4-Ethyltoluene            | 12.782 | 105   | 54679    | 0.465    | ppbv#  | 13       |
| 68) 1,2,4-Trimethylbenzene    | 13.366 | 105   | 50927    | 0.512    | ppbv#  | 92       |
| 84) Trichlorofluoromethane... | 2.214  | 101   | 36298    | 0.230    | ppbv   | 93       |
| 86) Carbon Tetrachloride(sim) | 5.824  | 117   | 7289     | 0.070    | ppbv   | 99       |
| 97) Trichloroethene(sim)      | 7.333  | 130   | 36641    | 0.803    | ppbv#  | 79       |
| 103) Tetrachloroethene(sim)   | 9.662  | 166   | 2125098  | 34.429   | ppbv#  | 80       |
| 107) m, p-Xylene(sim)         | 11.262 | 91    | 240135   | 2.827    | ppbv#  | 93       |

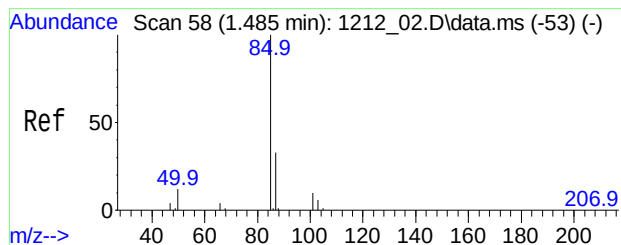
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_10.D  
 Acq On : 9 Dec 2019 9:53 am  
 Operator : Keith  
 Client ID : DRY CLEANER VP-3  
 Lab ID : CE81145  
 ALS Vial : 11 Sample Multiplier: 1

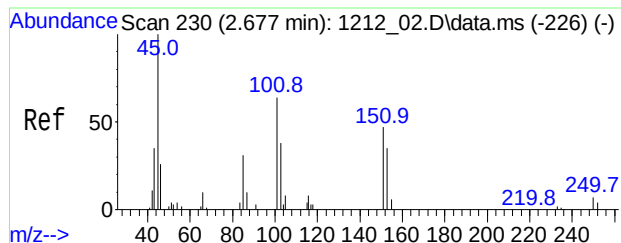
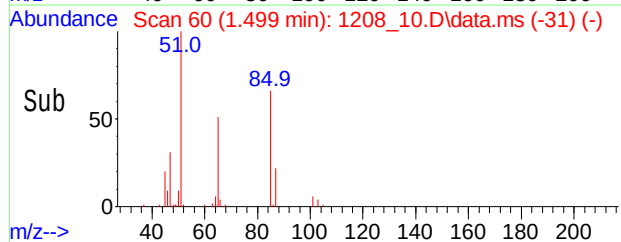
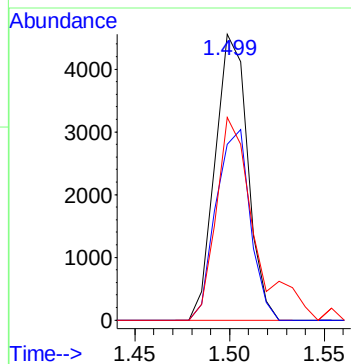
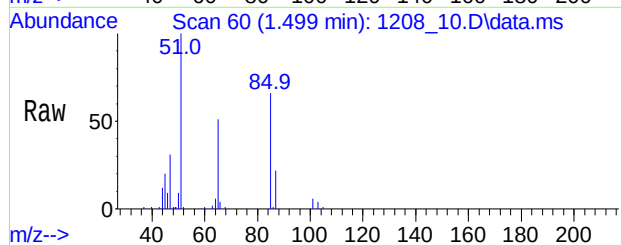
Quant Time: Dec 09 12:02:06 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration





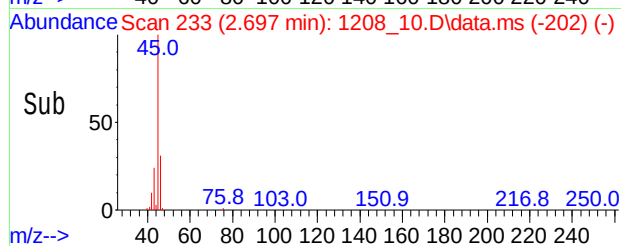
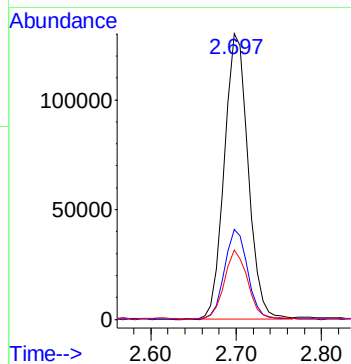
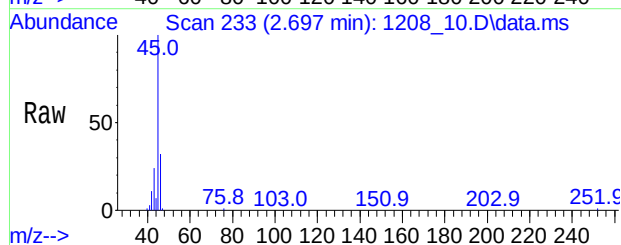
#3  
Dichlorodifluoromethane  
Conc: 8\$ 0.352 ppbv  
RT: 1.499 min Scan# 60  
Delta R.T. -0.000 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

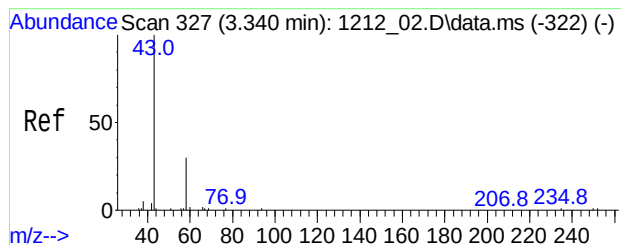
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 101     | 100   | 5440 |       |       |
| 103     | 69.9  | 55.7 | 83.5  |       |
| 66      | 84.2  | 45.1 | 67.7# |       |



#10  
Ethanol  
Conc: 8\$ 26.910 ppbv  
RT: 2.697 min Scan# 233  
Delta R.T. 0.013 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

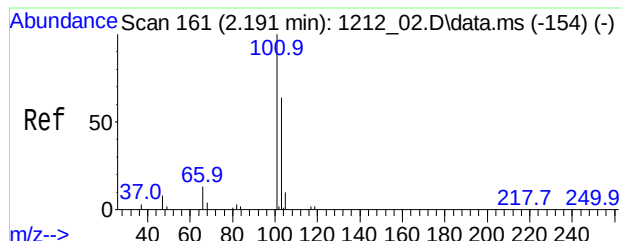
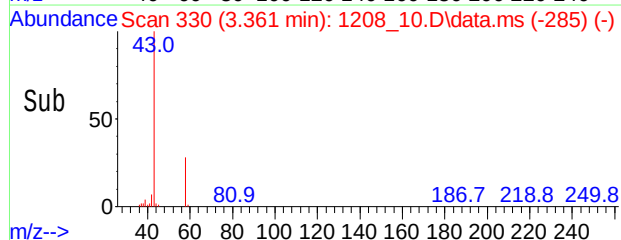
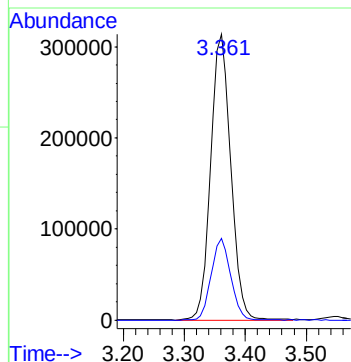
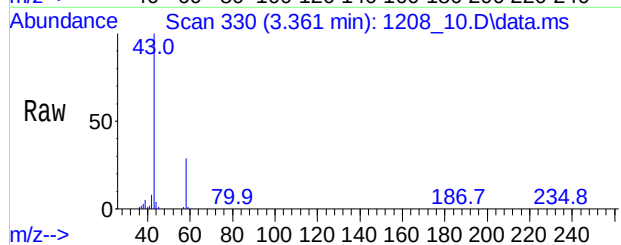
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 45      | 100   | 250431 |       |       |
| 46      | 31.2  | 5.9    | 8.9#  |       |
| 43      | 23.7  | 35.8   | 53.8# |       |





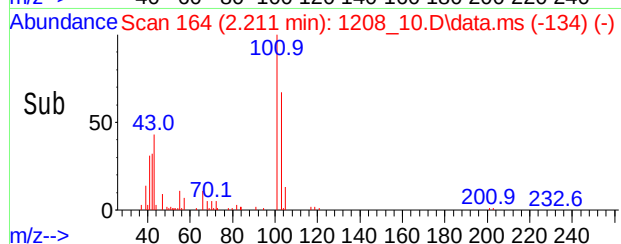
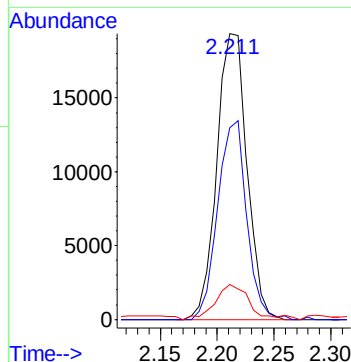
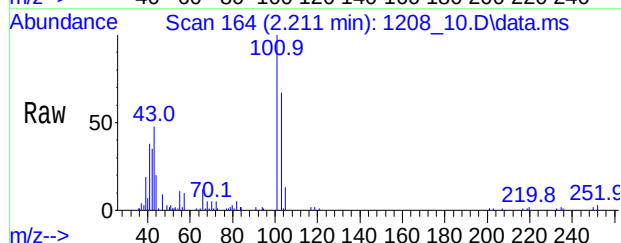
#12  
Acetone  
Conc: 8\$ 12.981 ppbv  
RT: 3.361 min Scan# 330  
Delta R.T. 0.007 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

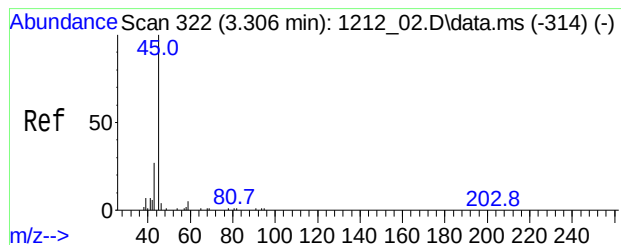
Tgt Ion: 43 Resp: 715442  
Ion Ratio Lower Upper  
43 100  
58 27.6 16.3 24.5#



#13  
Trichlorofluoromethane  
Conc: 8\$ 0.273 ppbv  
RT: 2.211 min Scan# 164  
Delta R.T. 0.007 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

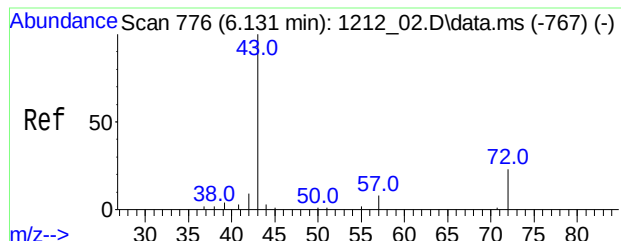
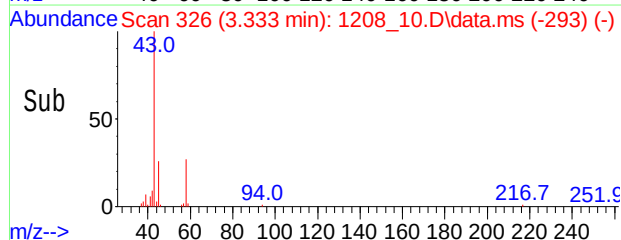
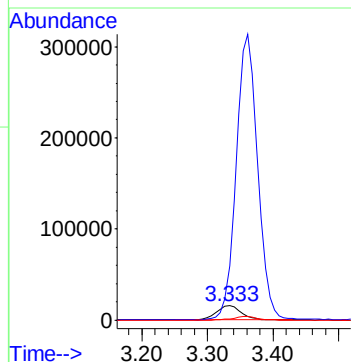
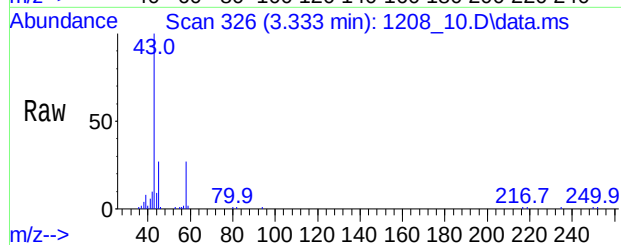
Tgt Ion: 101 Resp: 35584  
Ion Ratio Lower Upper  
101 100  
103 66.4 60.1 90.1  
66 13.8 25.4 38.0#





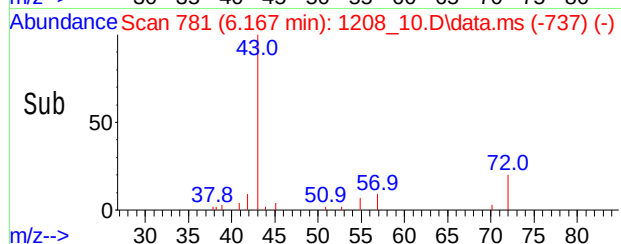
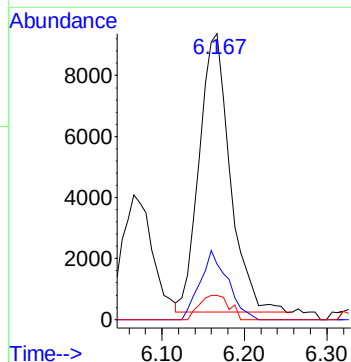
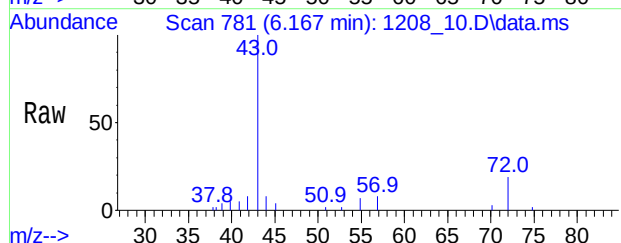
#14  
Isopropylalcohol  
Conc: 8\$ 0.774 ppbv  
RT: 3.333 min Scan# 326  
Delta R.T. 0.027 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

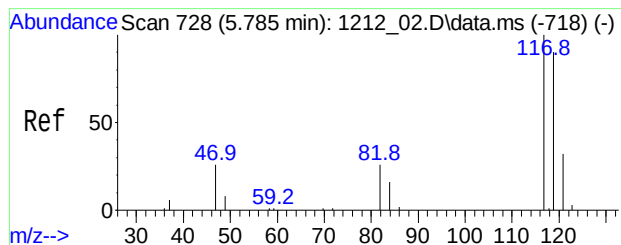
Tgt Ion: 45 Resp: 41103  
Ion Ratio Lower Upper  
45 100  
43 1740.6 29.8 44.8#  
59 24.7 0.0 0.0#



#25  
Methyl Ethyl Ketone  
Conc: 8\$ 0.435 ppbv  
RT: 6.167 min Scan# 781  
Delta R.T. 0.015 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

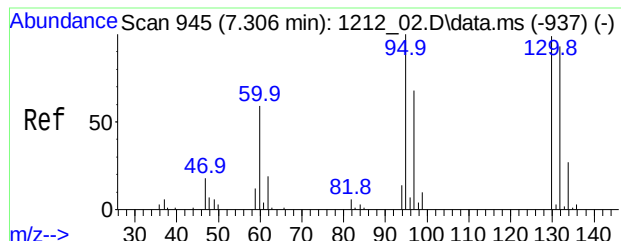
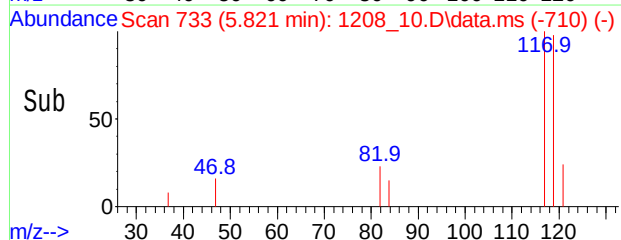
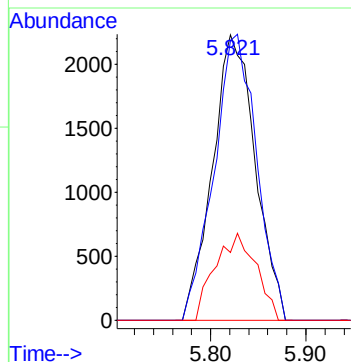
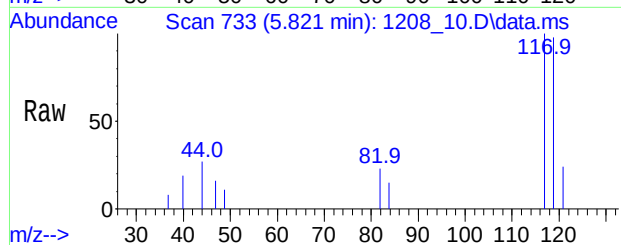
Tgt Ion: 43 Resp: 24951  
Ion Ratio Lower Upper  
43 100  
72 23.4 5.0 7.4#  
57 9.3 0.0 0.0#





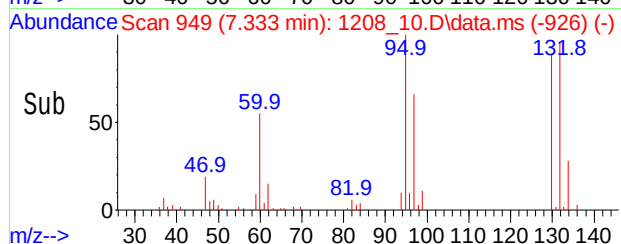
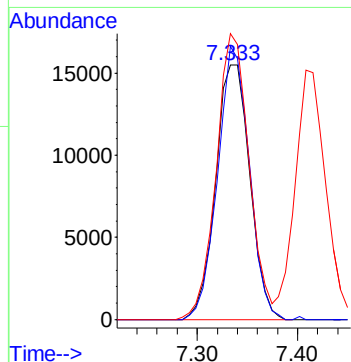
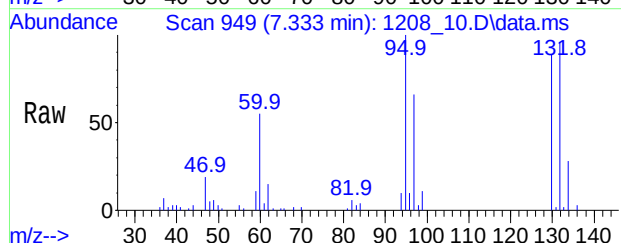
#34  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 5.821 min Scan# 733  
Delta R.T. 0.015 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

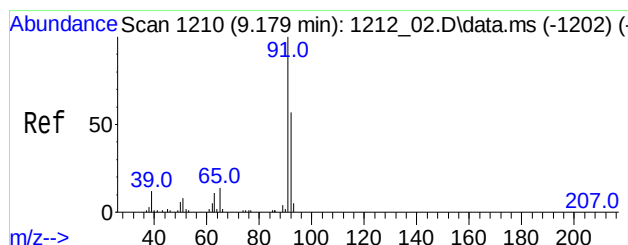
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 6962 |       |       |
| 119     | 99.5  | 75.6 | 115.6 |       |
| 121     | 29.0  | 11.2 | 51.2  |       |



#39  
Trichloroethene  
Conc: 8\$ 0.755 ppbv  
RT: 7.333 min Scan# 949  
Delta R.T. 0.007 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

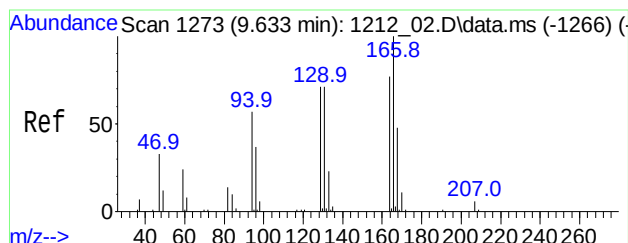
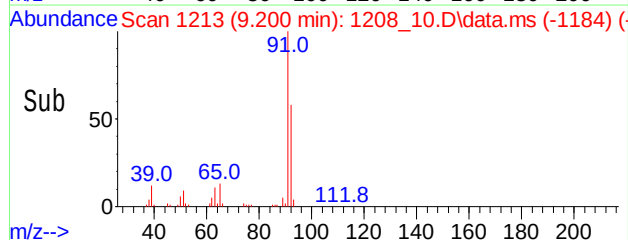
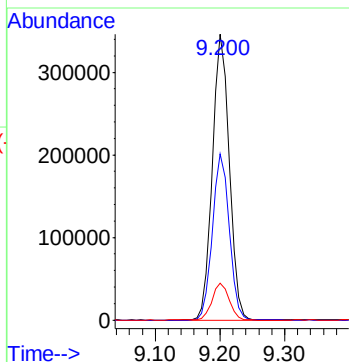
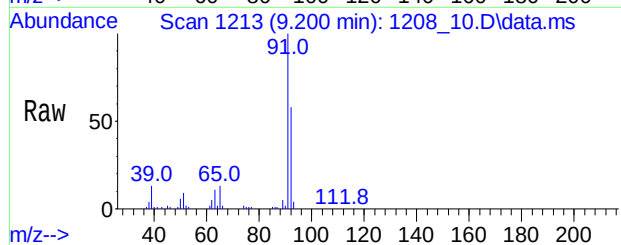
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 130     | 100   | 36641 |       |       |
| 132     | 99.3  | 84.4  | 126.6 |       |
| 95      | 107.6 | 0.0   | 0.0#  |       |





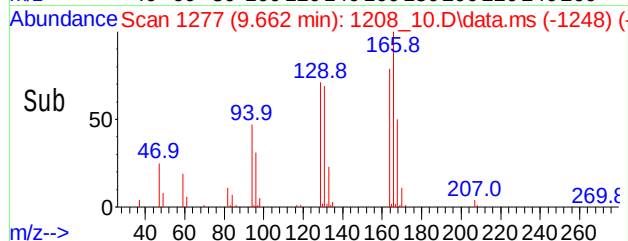
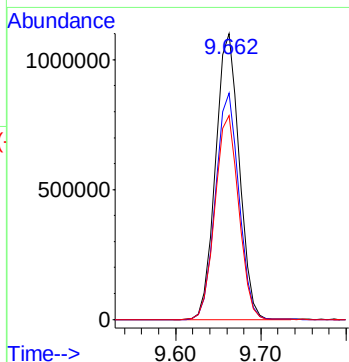
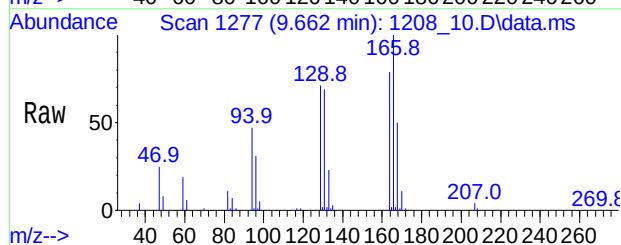
#48  
Toluene  
Conc: 8\$ 6.451 ppbv  
RT: 9.200 min Scan# 1213  
Delta R.T. 0.007 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

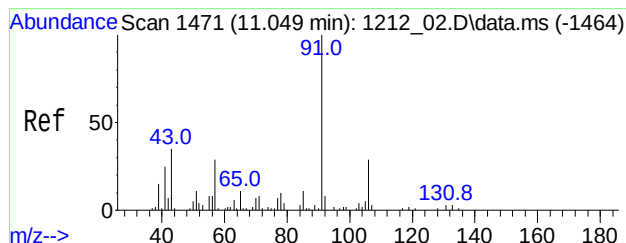
Tgt Ion: 91 Resp: 628820  
Ion Ratio Lower Upper  
91 100  
92 57.9 52.6 79.0  
65 13.2 0.0 0.0#



#52  
Tetrachloroethene  
Conc: 8\$ 30.640 ppbv  
RT: 9.662 min Scan# 1277  
Delta R.T. 0.007 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

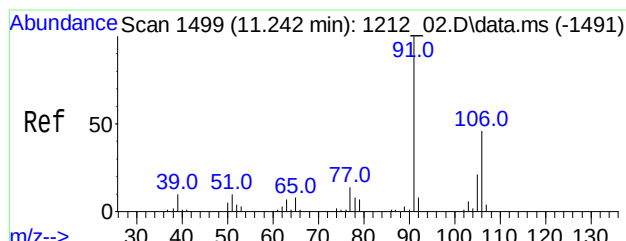
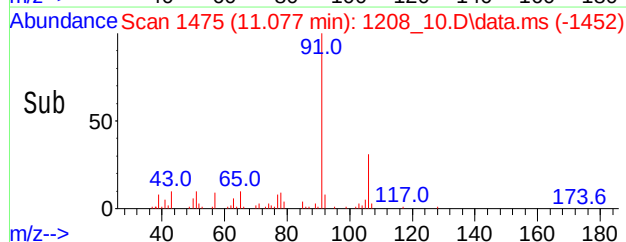
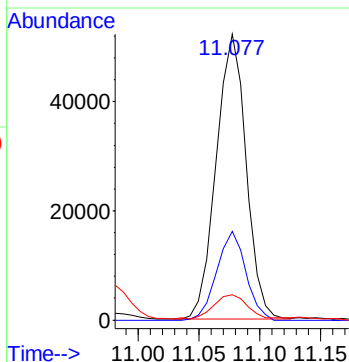
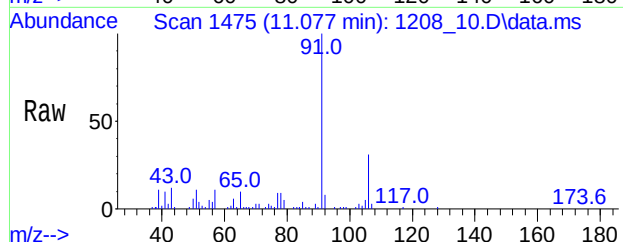
Tgt Ion: 166 Resp: 2124419  
Ion Ratio Lower Upper  
166 100  
164 78.6 58.9 88.3  
129 71.7 53.3 79.9





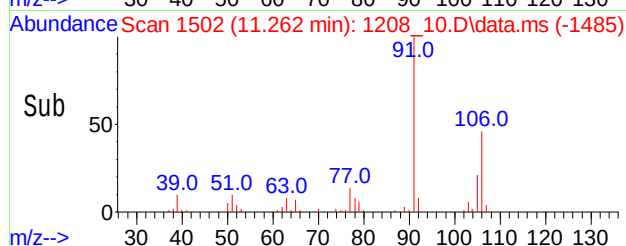
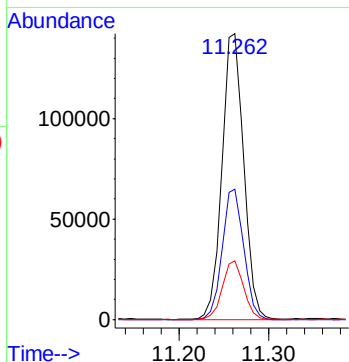
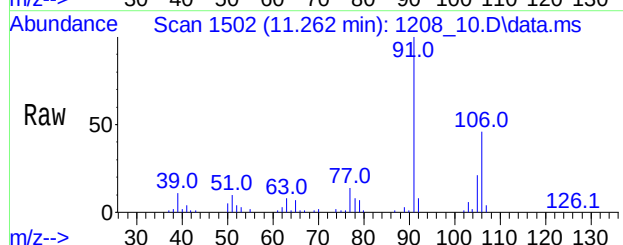
#56  
Ethylbenzene  
Conc: 8\$ 0.778 ppbv  
RT: 11.077 min Scan# 1475  
Delta R.T. 0.007 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 87586 |       |       |
| 106     | 30.3  | 4.0   | 44.0  |       |
| 77      | 9.4   | 0.0   | 20.0  |       |

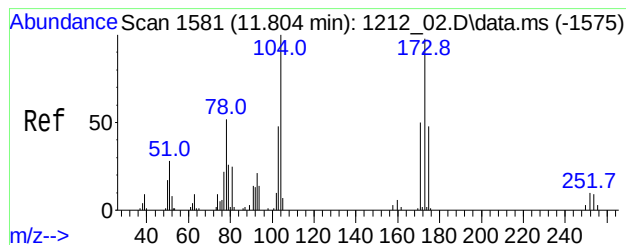


#57  
m,p-Xylene  
Conc: 8\$ 2.999 ppbv  
RT: 11.262 min Scan# 1502  
Delta R.T. 0.014 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 240135 |       |       |
| 106     | 45.1  | 33.8   | 50.8  |       |
| 105     | 20.2  | 10.8   | 16.2# |       |

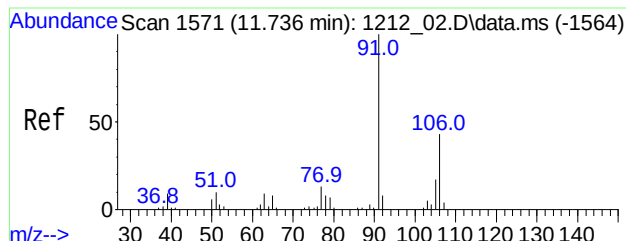
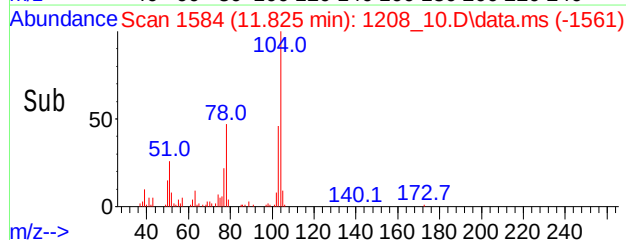
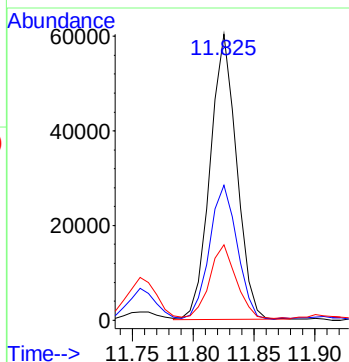
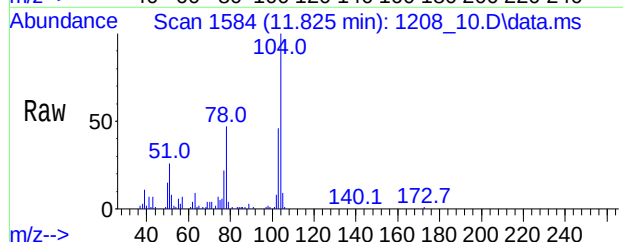






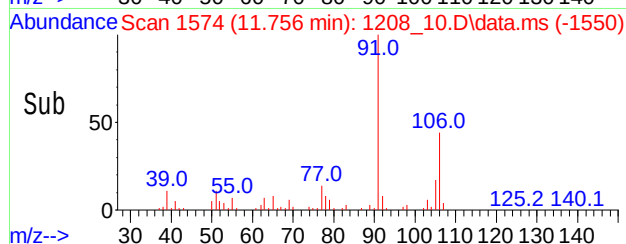
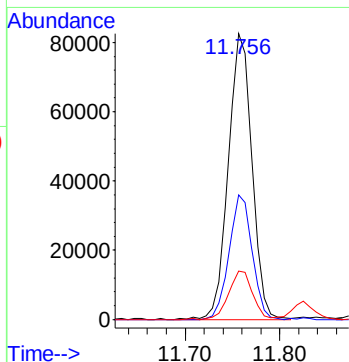
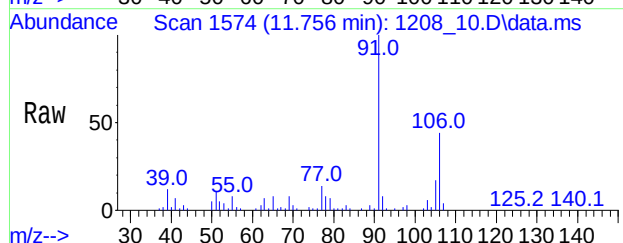
#59  
Styrene  
Conc: 8\$ 1.483 ppbv  
RT: 11.825 min Scan# 1584  
Delta R.T. 0.007 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

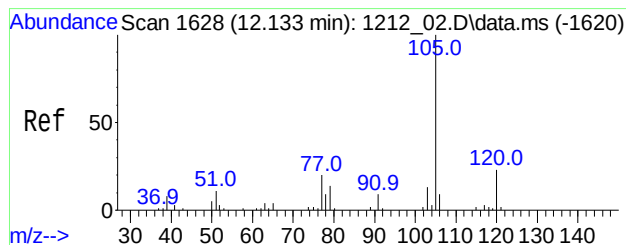
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 104     | 100   | 90095 |       |       |
| 78      | 49.6  | 16.6  |       | 24.8# |
| 51      | 26.4  | 0.0   |       | 0.0#  |



#61  
o-Xylene  
Conc: 8\$ 1.545 ppbv  
RT: 11.756 min Scan# 1574  
Delta R.T. 0.014 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

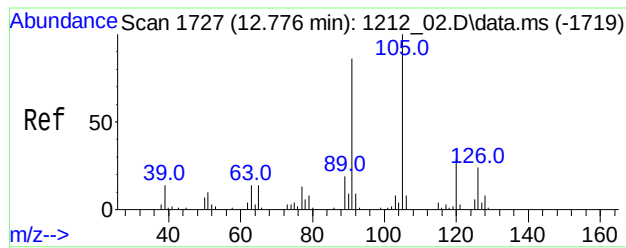
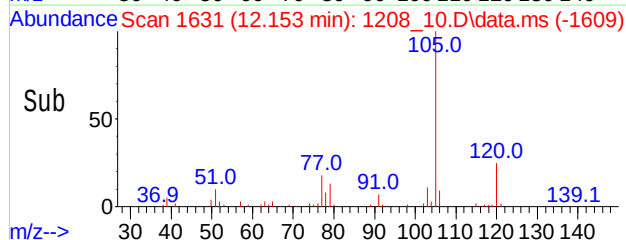
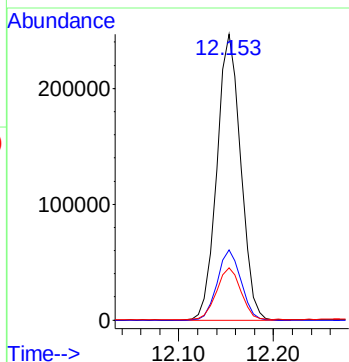
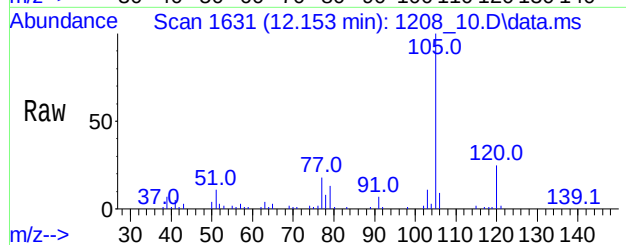
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 143435 |       |       |
| 106     | 42.4  | 43.0   |       | 64.4# |
| 105     | 17.2  | 15.4   |       | 23.0  |





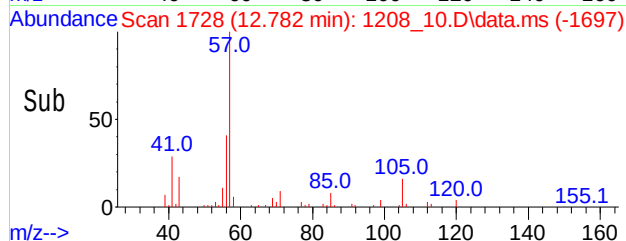
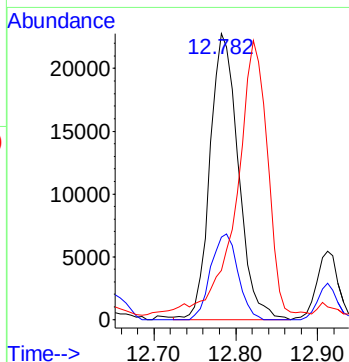
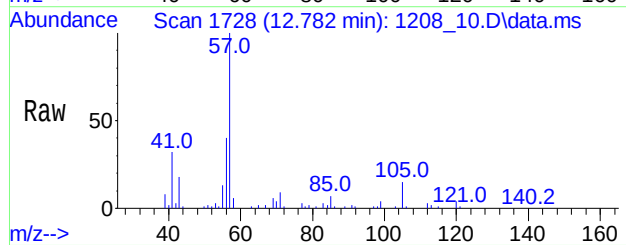
#64  
Isopropylbenzene  
Conc: 8\$ 3.812 ppbv  
RT: 12.153 min Scan# 1631  
Delta R.T. 0.007 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

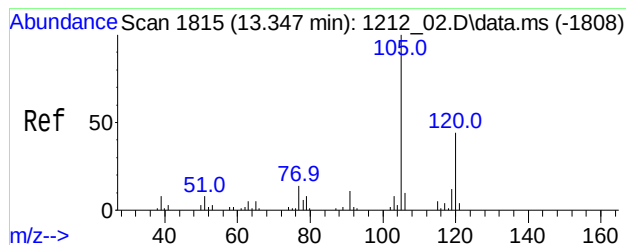
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 24.4  | 18.4  | 27.6  |
| 77      | 18.7  | 14.2  | 21.2  |



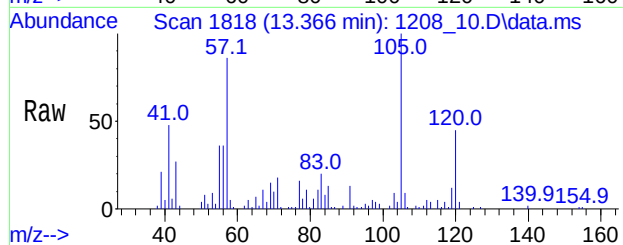
#66  
4-Ethyltoluene  
Conc: 8\$ 0.465 ppbv  
RT: 12.782 min Scan# 1728  
Delta R.T. 0.000 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 28.6  | 12.4  | 18.6# |
| 77      | 107.1 | 3.0   | 4.6#  |

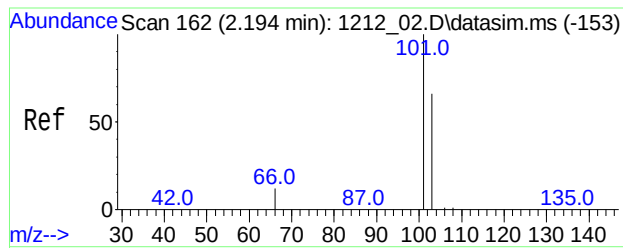
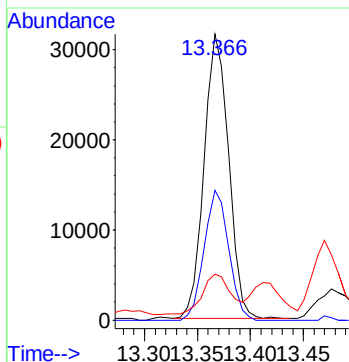
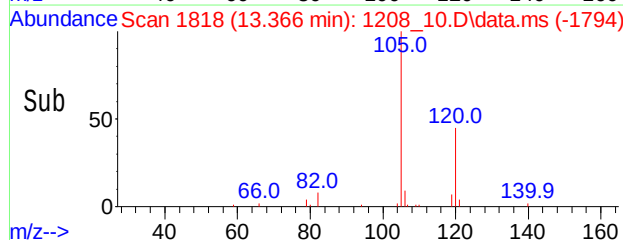




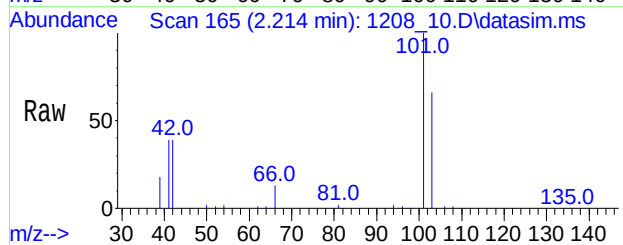
#68  
1,2,4-Trimethylbenzene  
Conc: 8\$ 0.512 ppbv  
RT: 13.366 min Scan# 1818  
Delta R.T. 0.006 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am



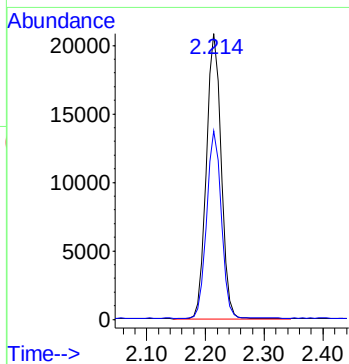
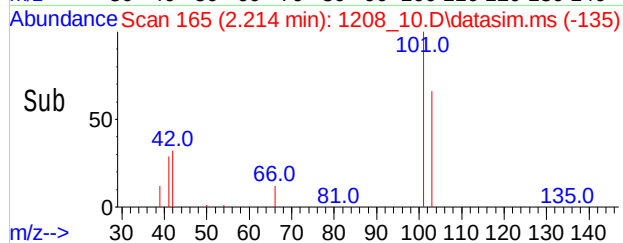
Tgt Ion: 105 Resp: 50927  
Ion Ratio Lower Upper  
105 100  
120 45.4 33.8 50.6  
77 16.5 5.3 7.9#

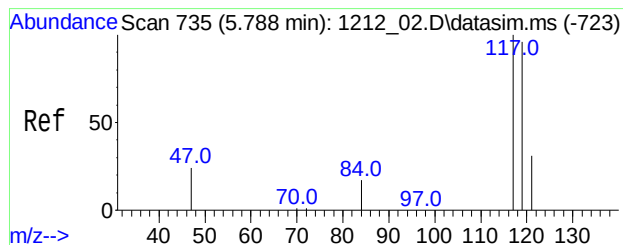


#84  
Trichlorofluoromethane(sim)  
Conc: 8\$ 0.230 ppbv  
RT: 2.214 min Scan# 165  
Delta R.T. 0.007 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am



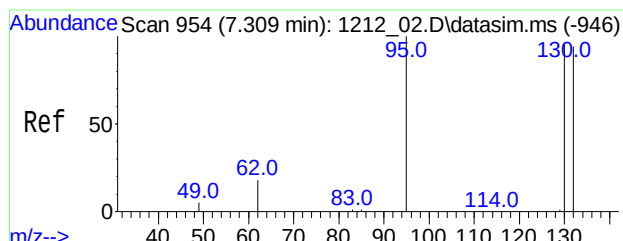
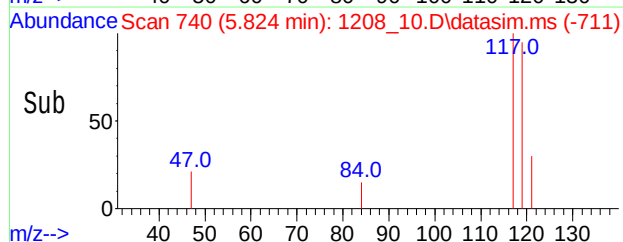
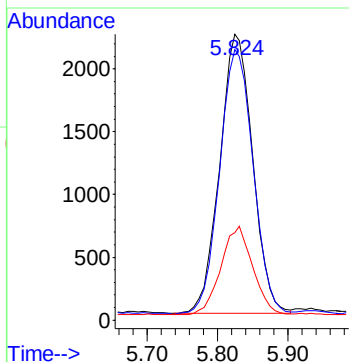
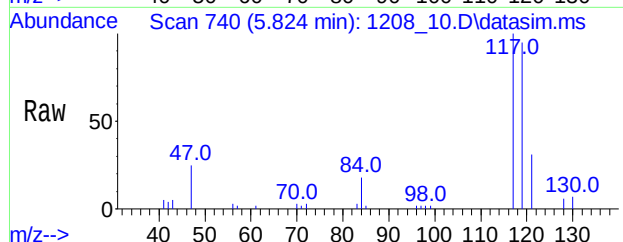
Tgt Ion: 101 Resp: 36298  
Ion Ratio Lower Upper  
101 100  
103 64.9 56.4 84.6





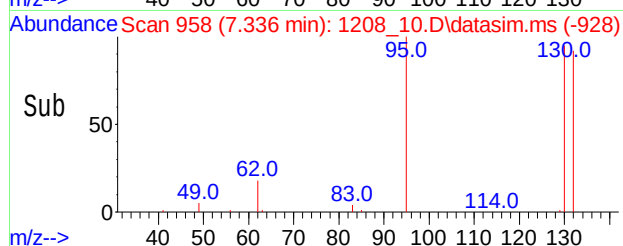
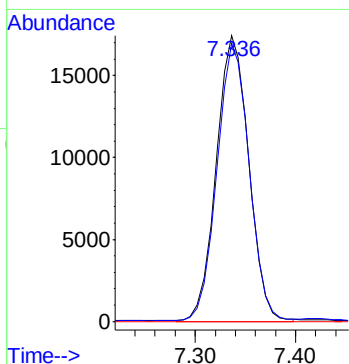
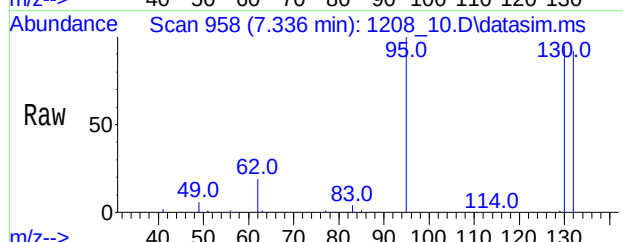
#86  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.070 ppbv  
RT: 5.824 min Scan# 740  
Delta R.T. 0.008 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

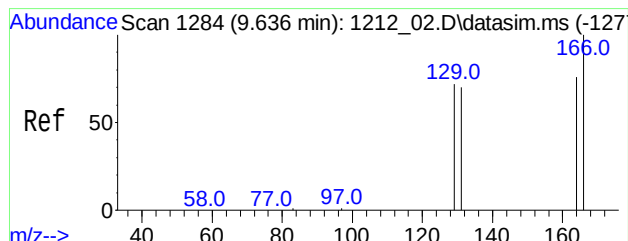
Tgt Ion: 117 Resp: 7289  
Ion Ratio Lower Upper  
117 100  
119 96.5 77.4 116.0  
121 30.6 25.4 38.2



#97  
Trichloroethene(sim)  
Conc: 8\$ 0.803 ppbv  
RT: 7.333 min Scan# 958  
Delta R.T. 0.004 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

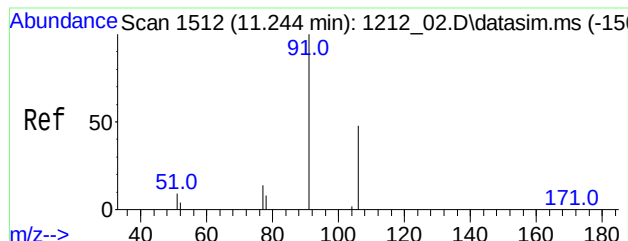
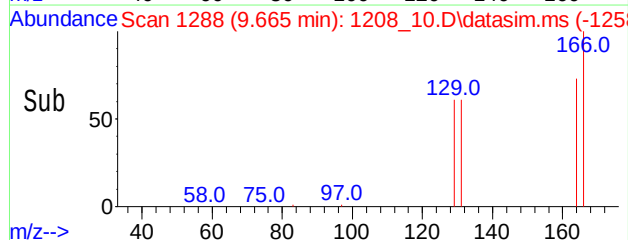
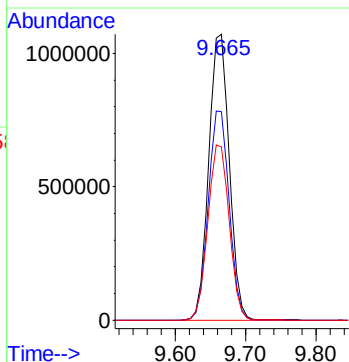
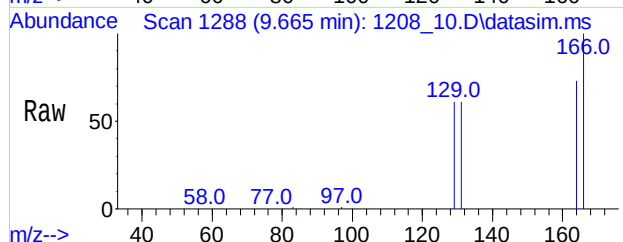
Tgt Ion: 130 Resp: 36641  
Ion Ratio Lower Upper  
130 100  
132 99.3 72.0 108.0  
97 70.2 34.1 51.1#





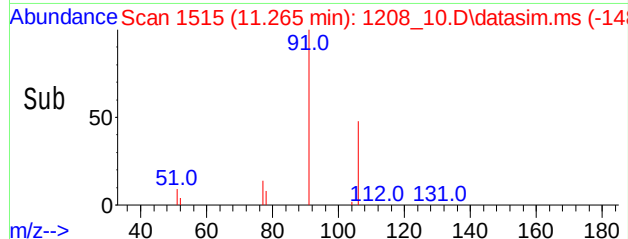
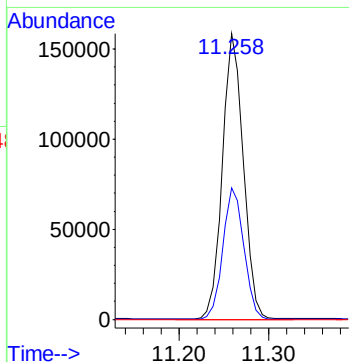
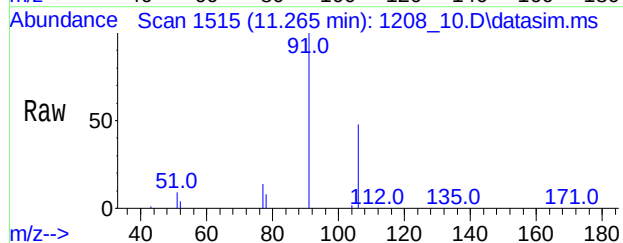
#103  
Tetrachloroethene(sim)  
Conc: 8\$ 34.429 ppbv  
RT: 9.662 min Scan# 1288  
Delta R.T. 0.014 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

Tgt Ion: 166 Resp: 2125098  
Ion Ratio Lower Upper  
166 100  
164 78.6 31.9 71.9#  
129 71.7 58.6 98.6



#107  
m,p-Xylene(sim)  
Conc: 8\$ 2.827 ppbv  
RT: 11.262 min Scan# 1515  
Delta R.T. 0.014 min  
Lab File: 1208\_10.D  
Acq: 9 Dec 2019 9:53 am

Tgt Ion: 91 Resp: 240135  
Ion Ratio Lower Upper  
91 100  
106 45.1 38.1 46.5  
105 20.2 10.8 16.2#



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

HAIR SALON IA-4

|              |          |                  |                   |
|--------------|----------|------------------|-------------------|
| Client:      | CEG      | Lab:             | Phoenix Env. Labs |
| SDG No.:     | GCE81145 | Lab Sample ID:   | CE81146           |
| Canister:    | 28578    | Lab File ID:     | 1206_07.D         |
| Instrument:  | CHEM24   | Column:          | RTX-VMS           |
|              |          | Date Received:   | 12/05/19          |
| Purge Volume | 200 (cc) | Date Analyzed:   | 12/06/19          |
| Matrix:      | AIR      | Dilution Factor: | 1                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                           | CONC. | Q  | MDL   | PQL   | R |
|-------------|------------------------------------|-------|----|-------|-------|---|
| 115-07-1    | Propylene                          | 0.581 | U  | 0.581 | 0.581 | r |
| 75-71-8     | Dichlorodifluoromethane            | 0.202 | U  | 0.202 | 0.202 | r |
| 74-87-3     | Chloromethane                      | 0.485 | U  | 0.485 | 0.485 | r |
| 106-99-0    | 1,3-Butadiene                      | 0.452 | U  | 0.452 | 0.452 | r |
| 75-00-3     | Chloroethane                       | 0.379 | U  | 0.379 | 0.379 | r |
| 64-17-5     | Ethanol                            | 745   | ES | 0.531 | 0.531 | r |
| 67-64-1     | Acetone                            | 15.6  | S  | 0.421 | 0.421 | r |
| 67-63-0     | Isopropylalcohol                   | 11.2  | S  | 0.407 | 0.407 | r |
| 107-13-1    | Acrylonitrile                      | 0.461 | U  | 0.461 | 0.461 | r |
| 75-09-2     | Methylene Chloride                 | 0.864 | U  | 0.864 | 0.864 | r |
| 75-15-0     | Carbon Disulfide                   | 0.321 | U  | 0.321 | 0.321 | r |
| 1634-04-4   | Methyl tert-butyl ether(MTBE)      | 0.278 | U  | 0.278 | 0.278 | r |
| 78-93-3     | Methyl Ethyl Ketone                | 0.402 |    | 0.339 | 0.339 | r |
| 110-54-3    | Hexane                             | 1.17  | S  | 0.284 | 0.284 | r |
| 141-78-6    | Ethyl acetate                      | 0.278 | U  | 0.278 | 0.278 | r |
| 109-99-9    | Tetrahydrofuran                    | 0.339 | U  | 0.339 | 0.339 | r |
| 71-43-2     | Benzene                            | 0.859 |    | 0.313 | 0.313 | r |
| 110-82-7    | Cyclohexane                        | 0.459 |    | 0.291 | 0.291 | r |
| 142-82-5    | Heptane                            | 0.575 |    | 0.244 | 0.244 | r |
| 108-10-1    | 4-Methyl-2-pentanone(MIBK)         | 0.244 | U  | 0.244 | 0.244 | r |
| 10061-02-6  | trans-1,3-Dichloropropene          | 0.221 | U  | 0.221 | 0.221 | r |
| 108-88-3    | Toluene                            | 2.85  |    | 0.266 | 0.266 | r |
| 591-78-6    | 2-Hexanone(MBK)                    | 0.244 | U  | 0.244 | 0.244 | r |
| 127-18-4    | Tetrachloroethene                  | 0.258 |    | 0.037 | 0.037 | r |
| 108-90-7    | Chlorobenzene                      | 0.217 | U  | 0.217 | 0.217 | r |
| 100-41-4    | Ethylbenzene                       | 0.242 |    | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene                         | 0.935 |    | 0.230 | 0.230 | r |
| 100-42-5    | Styrene                            | 0.235 | U  | 0.235 | 0.235 | r |
| 95-47-6     | o-Xylene                           | 0.256 |    | 0.230 | 0.230 | r |
| 98-82-8     | Isopropylbenzene                   | 0.204 | U  | 0.204 | 0.204 | r |
| 622-96-8    | 4-Ethyltoluene                     | 0.237 |    | 0.204 | 0.204 | r |
| 108-67-8    | 1,3,5-Trimethylbenzene             | 0.204 | U  | 0.204 | 0.204 | r |
| 95-63-6     | 1,2,4-Trimethylbenzene             | 0.253 |    | 0.204 | 0.204 | r |
| 76-14-2     | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U  | 0.143 | 0.143 | r |
| 75-01-4     | Vinyl Chloride(sim)                | 0.078 | U  | 0.078 | 0.078 | r |
| 74-83-9     | Bromomethane(sim)                  | 0.258 | U  | 0.258 | 0.258 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

HAIR SALON IA-4

|              |          |                  |                   |
|--------------|----------|------------------|-------------------|
| Client:      | CEG      | Lab:             | Phoenix Env. Labs |
| SDG No.:     | GCE81145 | Lab Sample ID:   | CE81146           |
| Canister:    | 28578    | Lab File ID:     | 1206_07.D         |
| Instrument:  | CHEM24   | Column:          | RTX-VMS           |
|              |          | Date Received:   | 12/05/19          |
| Purge Volume | 200 (cc) | Date Analyzed:   | 12/06/19          |
| Matrix:      | AIR      | Dilution Factor: | 1                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|------------|--------------------------------|-------|---|-------|-------|---|
| 75-69-4    | Trichlorofluoromethane(sim)    | 0.178 | U | 0.178 | 0.178 | r |
| 71-55-6    | 1,1,1-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 56-23-5    | Carbon Tetrachloride(sim)      | 0.087 |   | 0.032 | 0.032 | r |
| 75-35-4    | 1,1-Dichloroethene(sim)        | 0.051 | U | 0.051 | 0.051 | r |
| 76-13-1    | Trichlorotrifluoroethane(sim)  | 0.131 | U | 0.131 | 0.131 | r |
| 156-60-5   | Trans-1,2-Dichloroethene(sim)  | 0.252 | U | 0.252 | 0.252 | r |
| 75-34-3    | 1,1-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 156-59-2   | Cis-1,2-Dichloroethene(sim)    | 0.051 | U | 0.051 | 0.051 | r |
| 67-66-3    | Chloroform(sim)                | 0.205 | U | 0.205 | 0.205 | r |
| 107-06-2   | 1,2-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 78-87-5    | 1,2-dichloropropane(sim)       | 0.217 | U | 0.217 | 0.217 | r |
| 75-27-4    | Bromodichloromethane(sim)      | 0.149 | U | 0.149 | 0.149 | r |
| 79-01-6    | Trichloroethene(sim)           | 0.037 | U | 0.037 | 0.037 | r |
| 123-91-1   | 1,4-Dioxane(sim)               | 0.278 | U | 0.278 | 0.278 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim)   | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5    | 1,1,2-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1   | Dibromochloromethane(sim)      | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4   | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2    | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6   | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 79-34-5    | 1,1,2,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 100-44-7   | Benzyl chloride(sim)           | 0.193 | U | 0.193 | 0.193 | r |
| 541-73-1   | 1,3-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 106-46-7   | 1,4-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 135-98-8   | sec-Butylbenzene(sim)          | 0.182 | U | 0.182 | 0.182 | r |
| 99-87-6    | 4-Isopropyltoluene(sim)        | 0.182 | U | 0.182 | 0.182 | r |
| 95-50-1    | 1,2-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 104-51-8   | n-Butylbenzene(sim)            | 0.182 | U | 0.182 | 0.182 | r |
| 120-82-1   | 1,2,4-Trichlorobenzene(sim)    | 0.135 | U | 0.135 | 0.135 | r |
| 87-68-3    | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_07.D  
 Acq On : 6 Dec 2019 6:46 pm  
 Operator : Keith  
 Client ID : HAIR SALON IA-4  
 Lab ID : CE81146  
 ALS Vial : 103 Sample Multiplier: 1

Quant Time: Dec 09 09:00:28 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.506  | 130   | 389109   | 10.000   | ng     | -0.03    |
| 36) 1,4-Difluorobenzene       | 7.425  | 114   | 1075964  | 10.000   | ng     | -0.02    |
| 53) Chlorobenzene-d5          | 10.990 | 82    | 615076   | 10.000   | ng     | -0.01    |
| 80) Bromochloromethane(sim)   | 5.509  | 130   | 399602   | 10.000   | ng     | #-0.03   |
| 94) 1,4-Difluorobenzene(sim)  | 7.421  | 114   | 1183763  | 10.000   | ng     | #-0.03   |
| 104) Chlorobenzene-d5(sim)    | 10.986 | 82    | 671016   | 10.000   | ng     | -0.02    |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 12.461 | 95    | 903885   | 9.743    | ppbv   | -0.02    |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 97.40%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 10) Ethanol                   | 2.772  | 45    | 7193672  | 745.162  | ppbv#  | 90       |
| 12) Acetone                   | 3.361  | 43    | 981406   | 15.629   | ppbv   | 96       |
| 13) Trichlorofluoromethane    | 2.225  | 101   | 26523    | 0.211    | ppbv#  | 91       |
| 14) Isopropylalcohol          | 3.354  | 45    | 602560   | 11.192   | ppbv#  | 1        |
| 25) Methyl Ethyl Ketone       | 6.162  | 43    | 19954    | 0.402    | ppbv#  | 51       |
| 27) Hexane                    | 3.634  | 57    | 57282    | 1.165    | ppbv   | 94       |
| 33) Benzene                   | 6.494  | 78    | 76440    | 0.859    | ppbv#  | 82       |
| 34) Carbon Tetrachloride      | 5.838  | 117   | 8602     | 0.083    | ppbv   | 88       |
| 35) Cyclohexane               | 5.499  | 56    | 19139    | 0.459    | ppbv#  | 26       |
| 43) Heptane                   | 6.589  | 43    | 25034    | 0.575    | ppbv#  | 21       |
| 48) Toluene                   | 9.211  | 91    | 322098   | 2.849    | ppbv   | 94       |
| 52) Tetrachloroethene         | 9.665  | 166   | 19926m   | 0.257    | ppbv#  | 88       |
| 56) Ethylbenzene              | 11.080 | 91    | 33548    | 0.242    | ppbv   | 94       |
| 57) m, p-Xylene               | 11.265 | 91    | 95277    | 0.935    | ppbv   | 97       |
| 61) o-Xylene                  | 11.766 | 91    | 30722    | 0.256    | ppbv#  | 94       |
| 66) 4-Ethyltoluene            | 12.792 | 105   | 35041    | 0.237    | ppbv   | 99       |
| 68) 1,2,4-Trimethylbenzene    | 13.376 | 105   | 30717    | 0.253    | ppbv#  | 95       |
| 84) Trichlorofluoromethane... | 2.221  | 101   | 27546    | 0.177    | ppbv   | 94       |
| 86) Carbon Tetrachloride(sim) | 5.841  | 117   | 9416     | 0.087    | ppbv   | 99       |
| 103) Tetrachloroethene(sim)   | 9.665  | 166   | 20002    | 0.283    | ppbv#  | 72       |
| 107) m, p-Xylene(sim)         | 11.265 | 91    | 95277    | 0.892    | ppbv   | 97       |

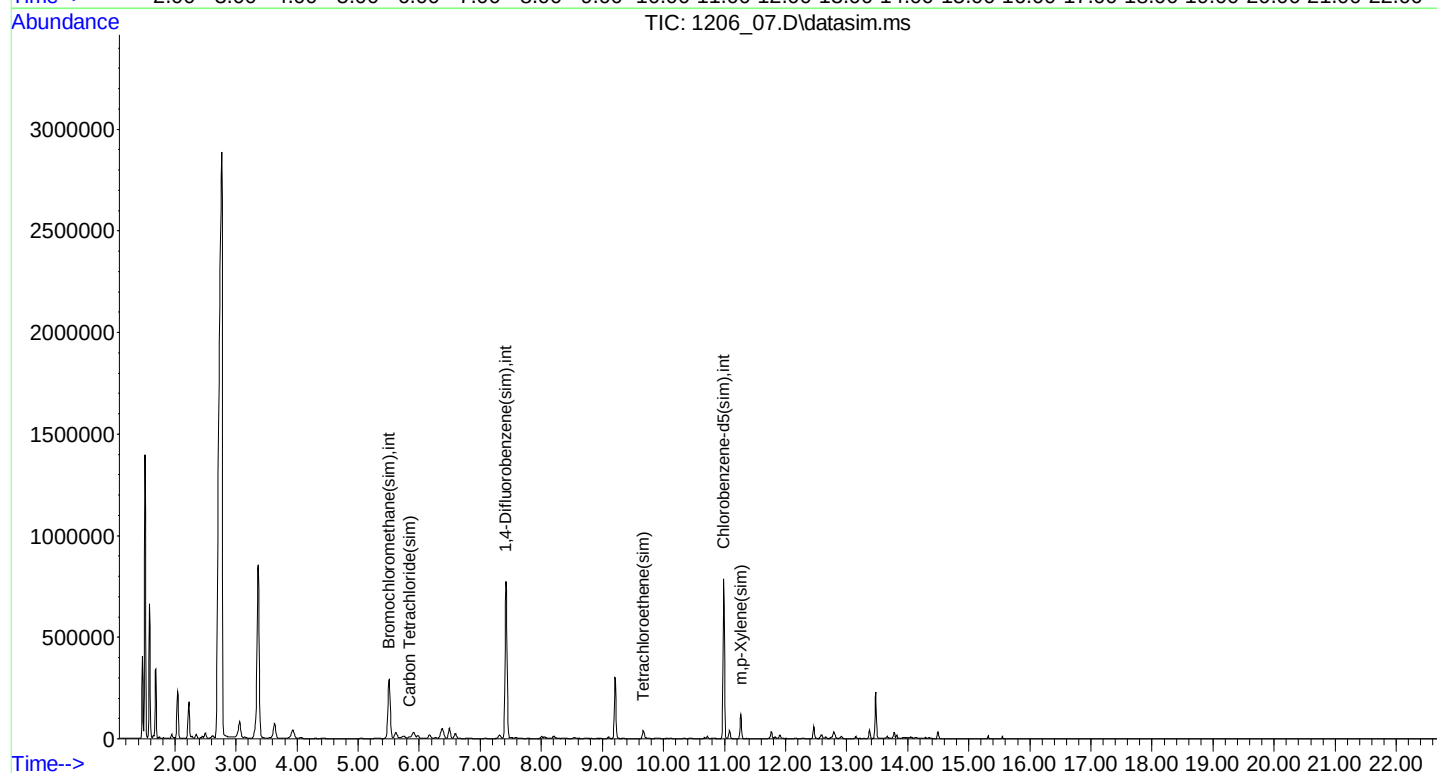
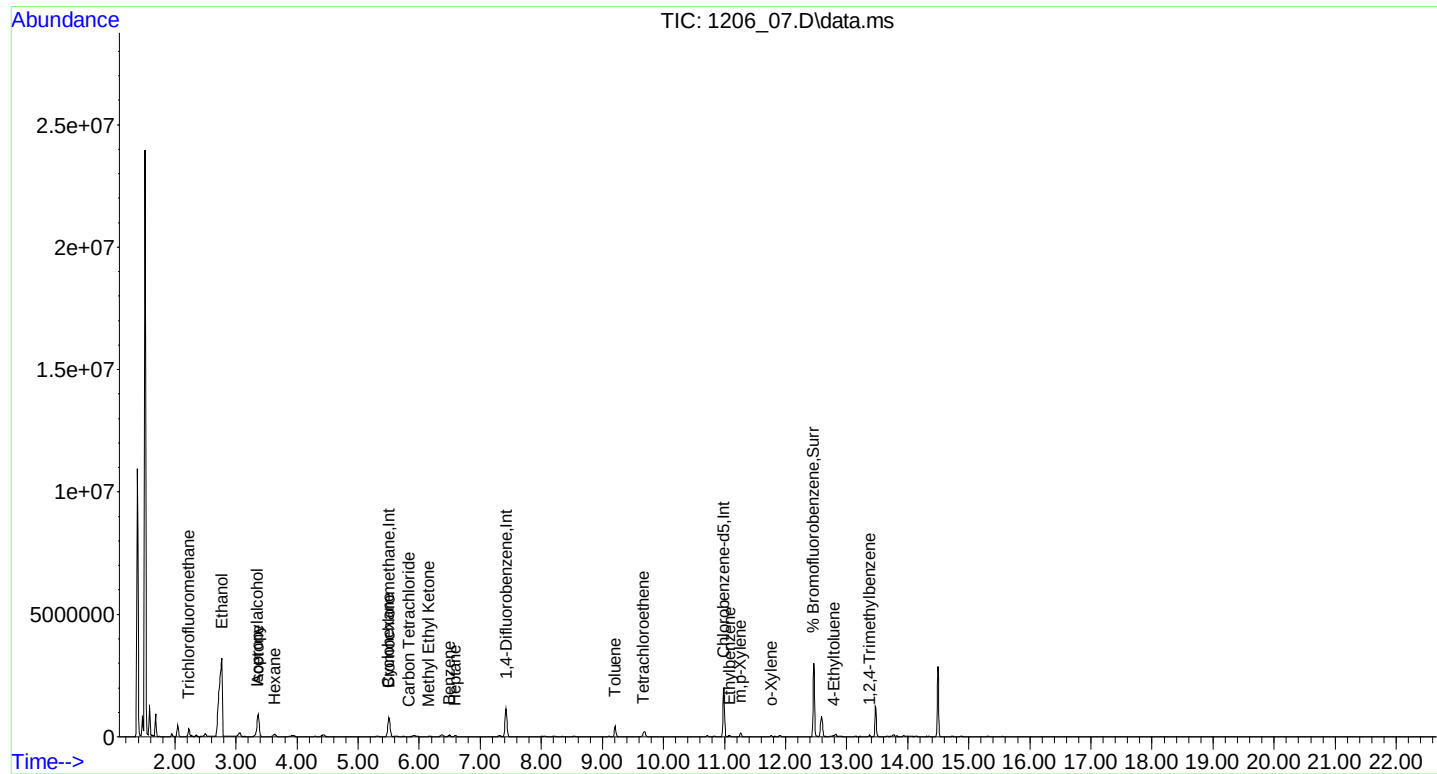
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

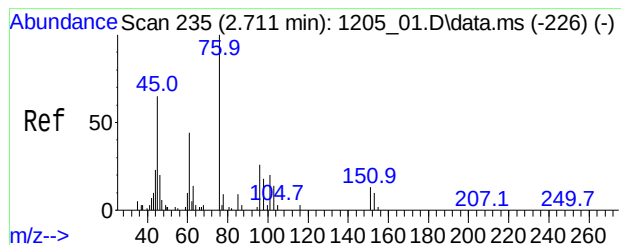


## Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
Data File : 1206\_07.D  
Acq On : 6 Dec 2019 6:46 pm  
Operator : Keith  
Client ID : HAIR SALON IA-4  
Lab ID : CE81146  
ALS Vial : 103 Sample Multiplier: 1

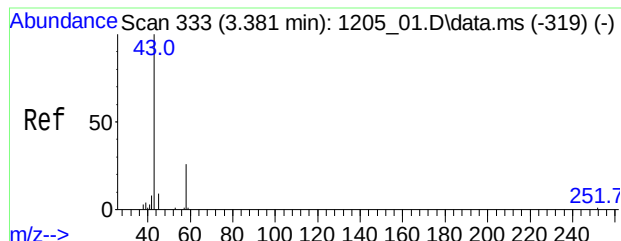
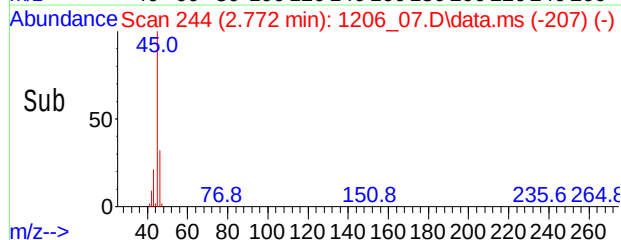
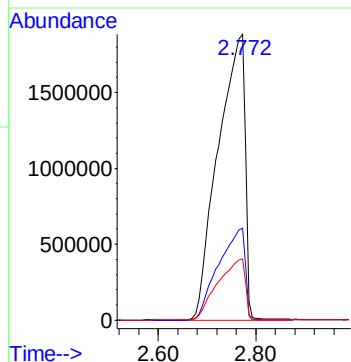
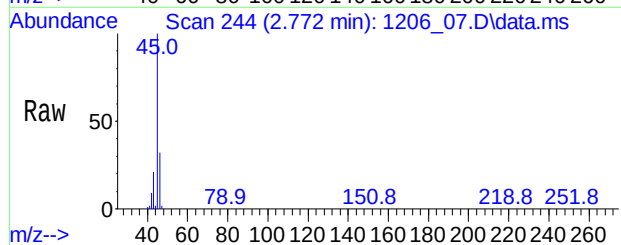
Quant Time: Dec 09 09:00:28 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Last Update : Wed Dec 04 08:59:27 2019  
Response via : Initial Calibration





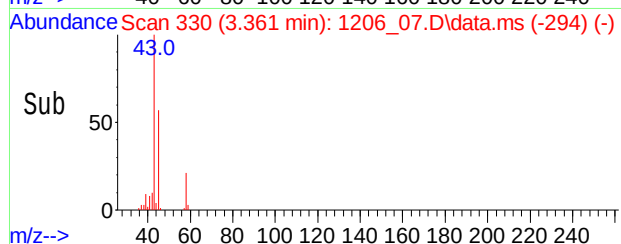
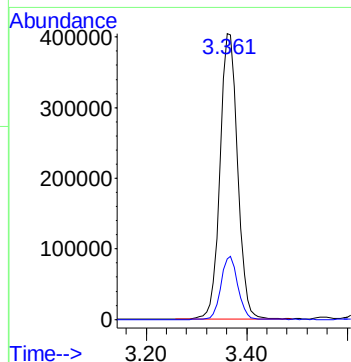
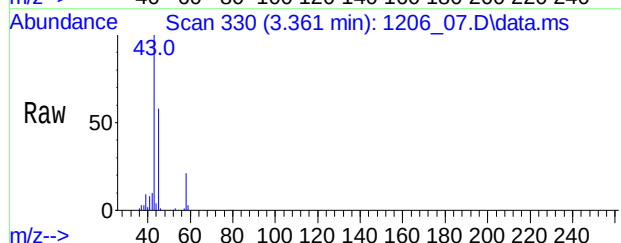
#10  
Ethanol  
Conc: 8\$ 745.162 ppbv  
RT: 2.772 min Scan# 244  
Delta R.T. 0.054 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

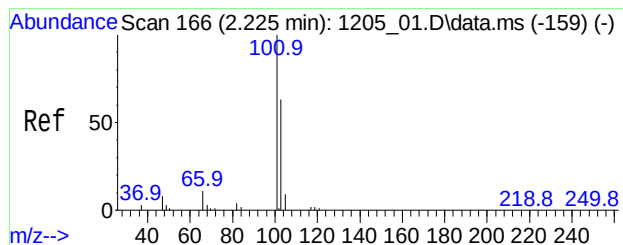
Tgt Ion: 45 Resp: 7193672  
Ion Ratio Lower Upper  
45 100  
46 31.8 24.5 36.7  
43 21.6 7.0 10.4#



#12  
Acetone  
Conc: 8\$ 15.629 ppbv  
RT: 3.361 min Scan# 330  
Delta R.T. -0.054 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

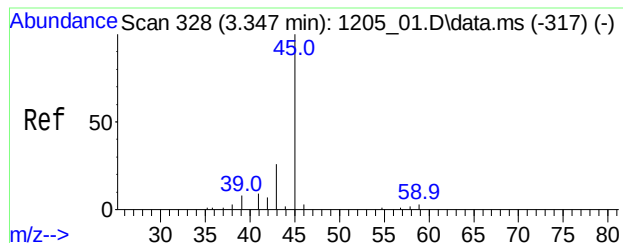
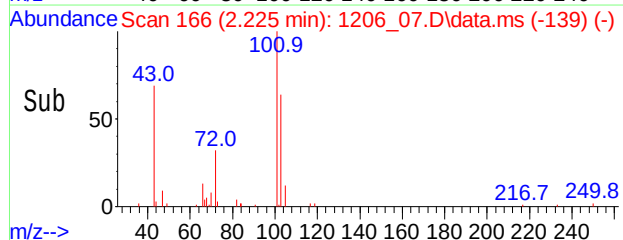
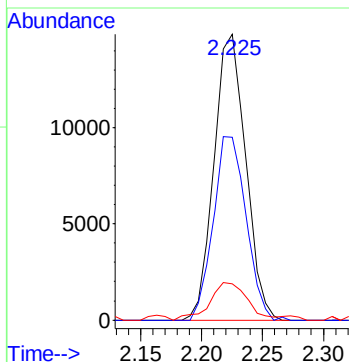
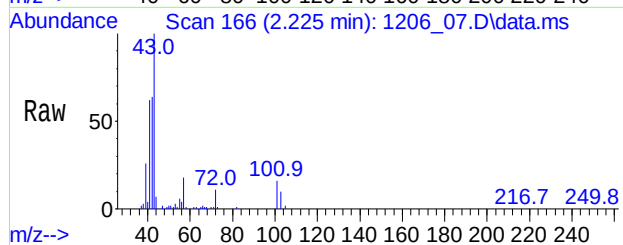
Tgt Ion: 43 Resp: 981406  
Ion Ratio Lower Upper  
43 100  
58 21.1 15.4 23.0





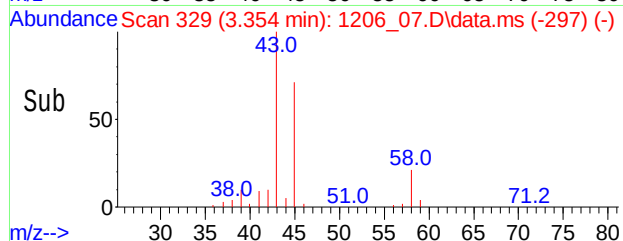
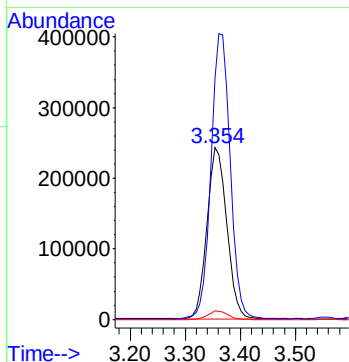
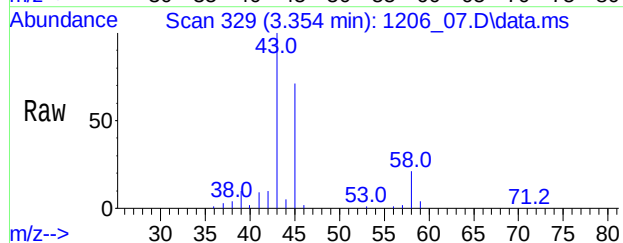
#13  
Trichlorofluoromethane  
Conc: 8\$ 0.211 ppbv  
RT: 2.225 min Scan# 166  
Delta R.T. -0.014 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

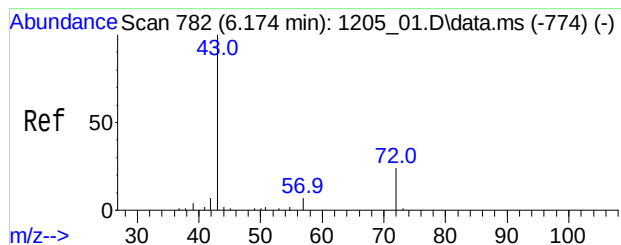
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 101     | 100   | 26523 |       |       |
| 103     | 66.4  | 55.4  | 83.2  |       |
| 66      | 15.4  | 22.0  | 33.0# |       |



#14  
Isopropylalcohol  
Conc: 8\$ 11.192 ppbv  
RT: 3.354 min Scan# 329  
Delta R.T. 0.021 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

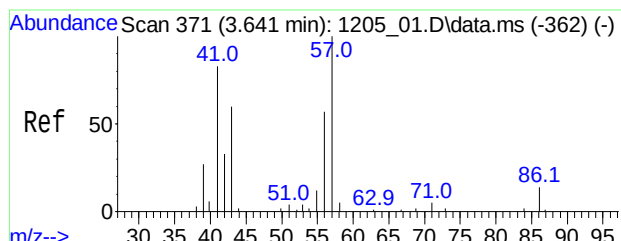
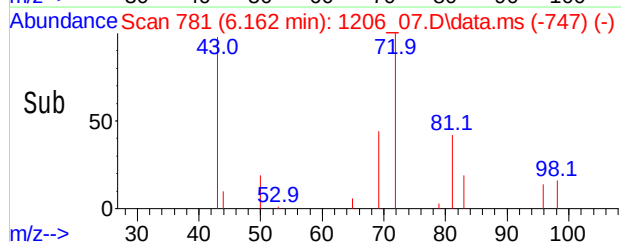
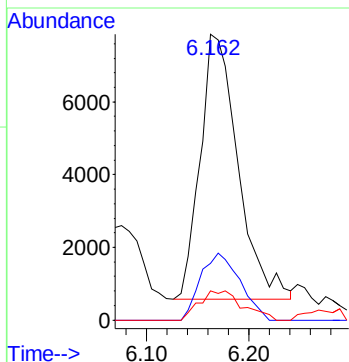
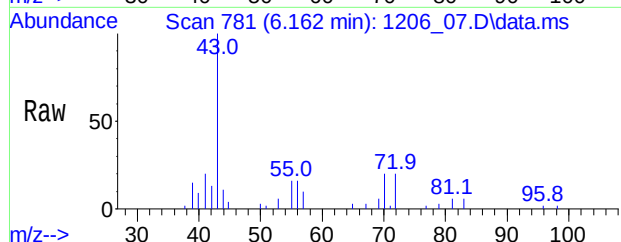
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 45      | 100   | 602560 |       |       |
| 43      | 162.9 | 24.0   | 36.0# |       |
| 59      | 5.0   | 0.0    | 0.0#  |       |





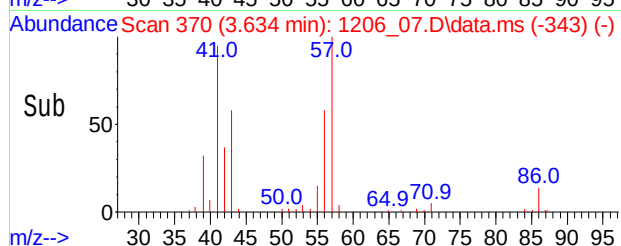
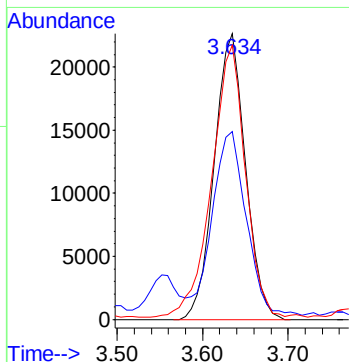
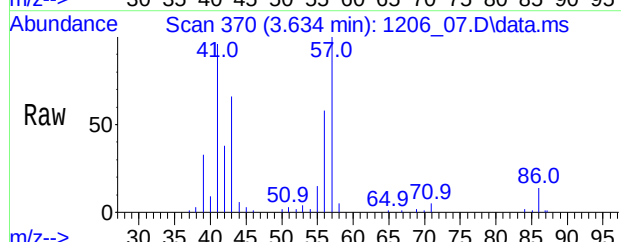
#25  
Methyl Ethyl Ketone  
Conc: 8\$ 0.402 ppbv  
RT: 6.162 min Scan# 781  
Delta R.T. -0.055 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

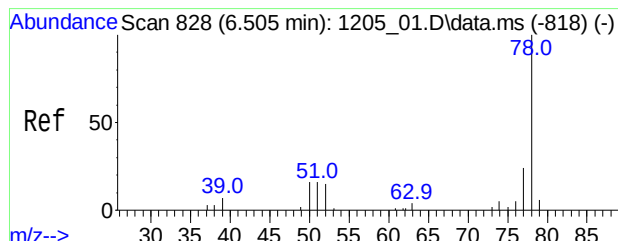
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 43      | 100   | 19954 |       |       |
| 72      | 26.9  | 7.2   | 10.8# |       |
| 57      | 0.0   | 0.0   | 0.0   |       |



#27  
Hexane  
Conc: 8\$ 1.165 ppbv  
RT: 3.634 min Scan# 370  
Delta R.T. -0.014 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

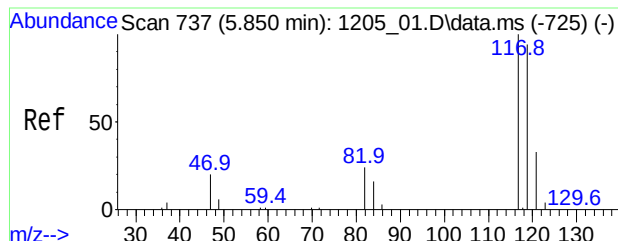
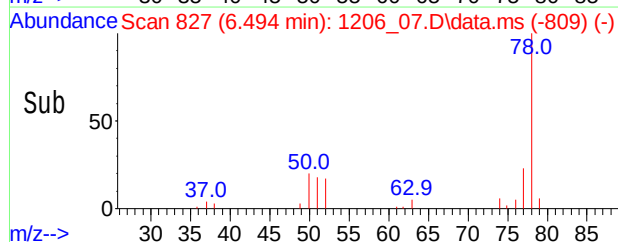
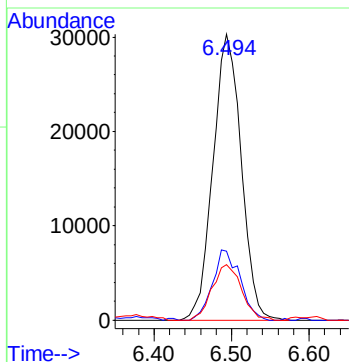
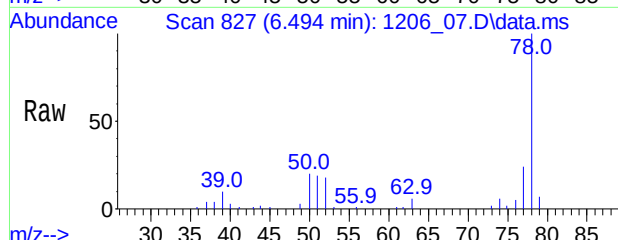
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 57      | 100   | 57282 |       |       |
| 43      | 70.2  | 50.9  | 76.3  |       |
| 41      | 102.7 | 85.5  | 128.3 |       |





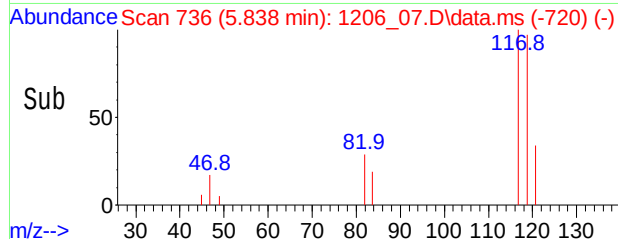
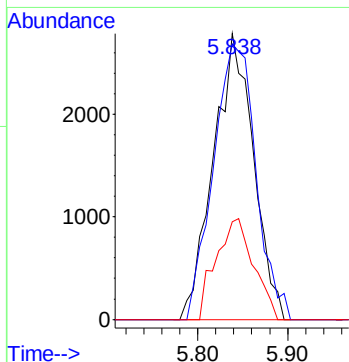
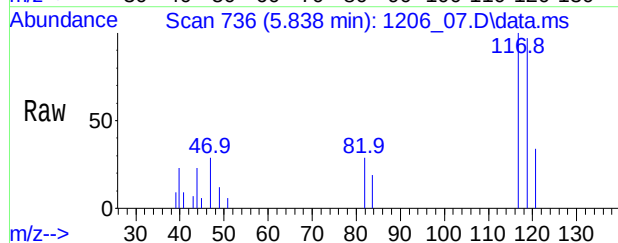
#33  
Benzene  
Conc: 8\$ 0.859 ppbv  
RT: 6.494 min Scan# 827  
Delta R.T. -0.024 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

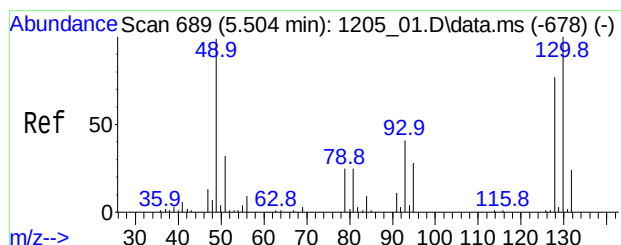
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 78      | 100   | 76440 |       |       |
| 77      | 23.9  | 8.7   | 13.1# |       |
| 51      | 20.3  | 20.6  | 30.8# |       |



#34  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 5.838 min Scan# 736  
Delta R.T. -0.033 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

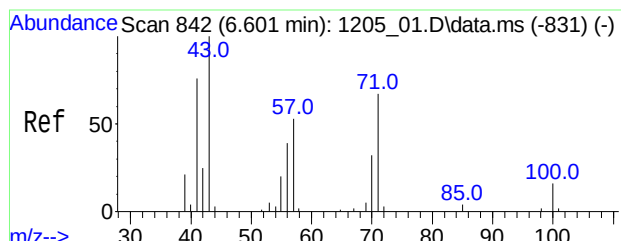
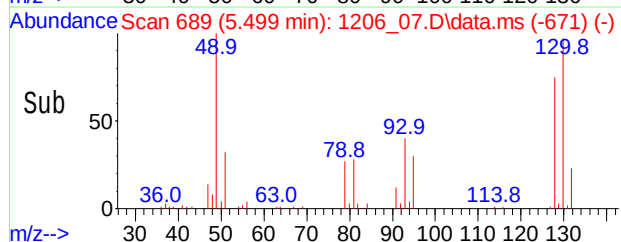
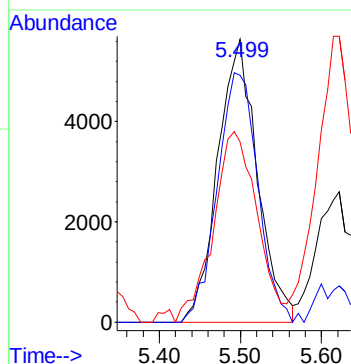
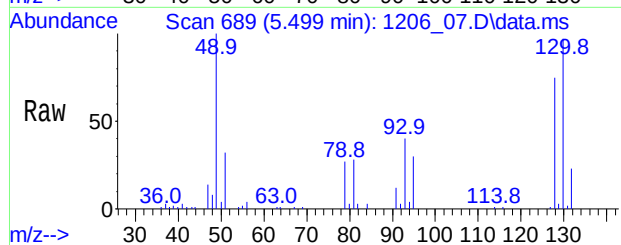
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 8602 |       |       |
| 119     | 102.5 | 75.7 | 115.7 |       |
| 121     | 33.0  | 0.0  | 34.9  |       |





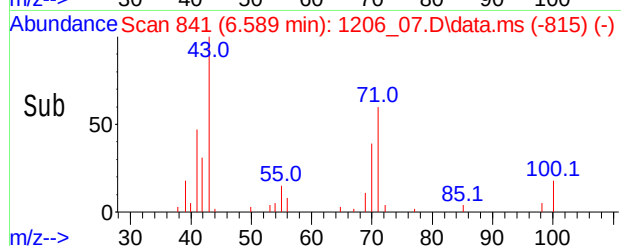
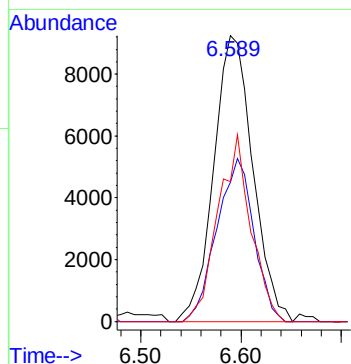
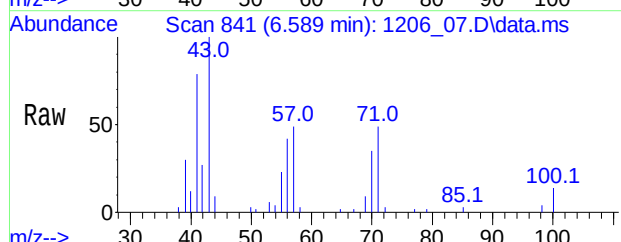
#35  
Cyclohexane  
Conc: 8\$ 0.459 ppbv  
RT: 5.499 min Scan# 689  
Delta R.T. -0.019 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

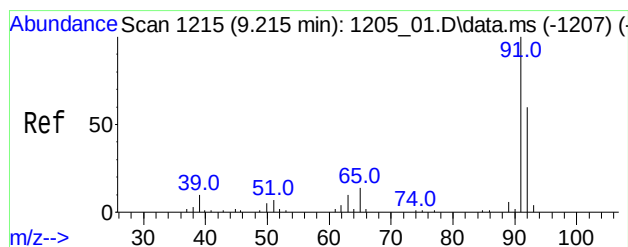
Tgt Ion: 56 Resp: 19139  
Ion Ratio Lower Upper  
56 100  
84 90.1 117.8 176.8#  
41 74.6 182.0 273.0#



#43  
Heptane  
Conc: 8\$ 0.575 ppbv  
RT: 6.589 min Scan# 841  
Delta R.T. -0.025 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

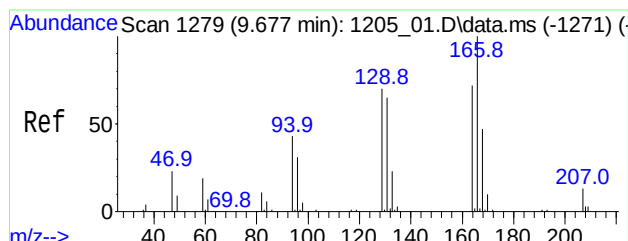
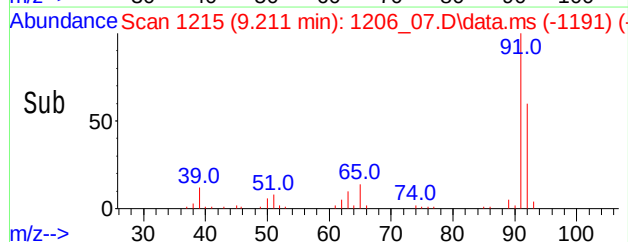
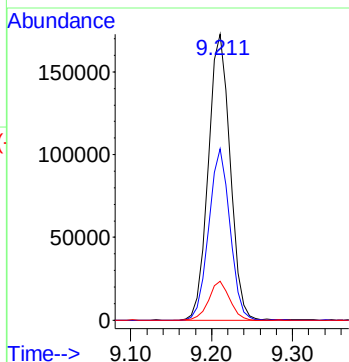
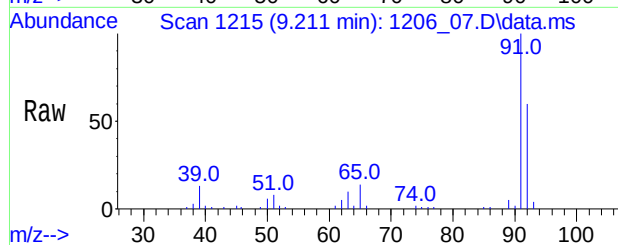
Tgt Ion: 43 Resp: 25034  
Ion Ratio Lower Upper  
43 100  
57 53.8 9.3 13.9#  
71 55.0 18.9 28.3#





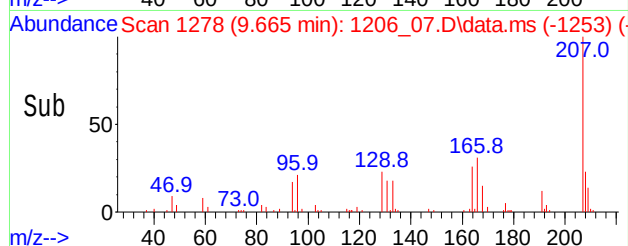
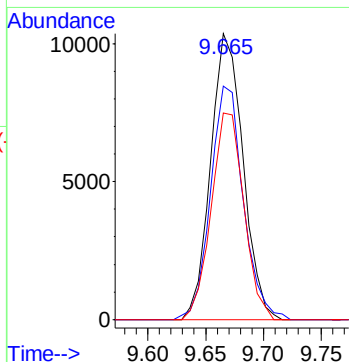
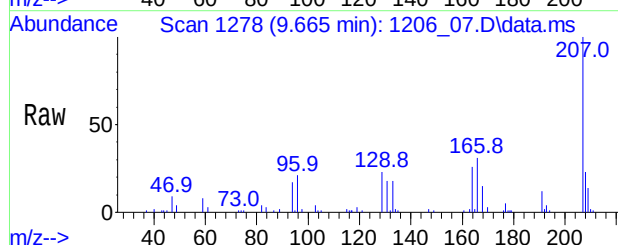
#48  
Toluene  
Conc: 8\$ 2.849 ppbv  
RT: 9.211 min Scan# 1215  
Delta R.T. -0.025 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

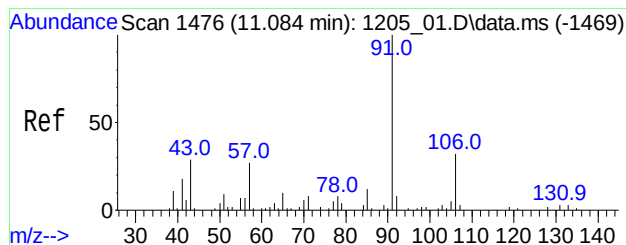
Tgt Ion: 91 Resp: 322098  
Ion Ratio Lower Upper  
91 100  
92 58.2 50.6 75.8  
65 13.0 0.0 0.0#



#52  
Tetrachloroethene  
Conc: 8\$ 0.257 ppbv  
RT: 9.665 min Scan# 1278  
Delta R.T. -0.019 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

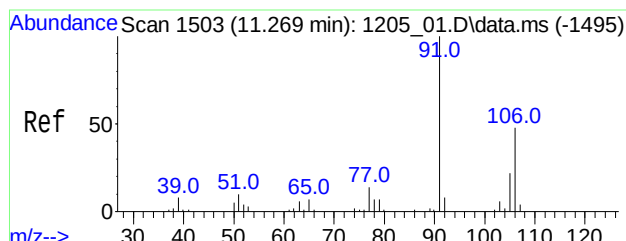
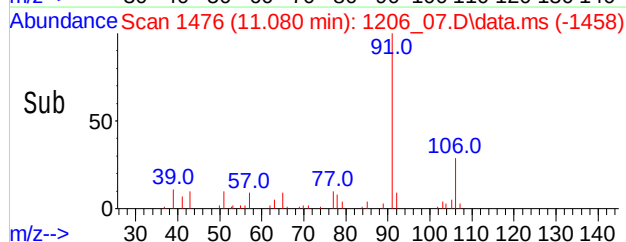
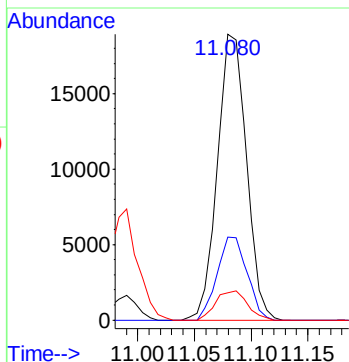
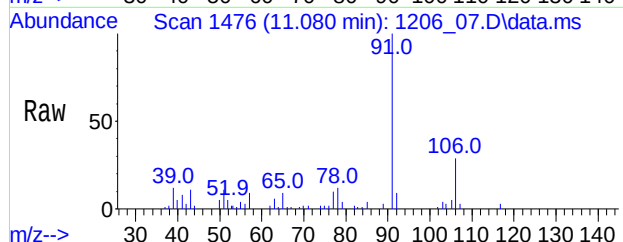
Tgt Ion: 166 Resp: 19926  
Ion Ratio Lower Upper  
166 100  
164 82.5 53.6 80.4#  
129 72.8 54.5 81.7





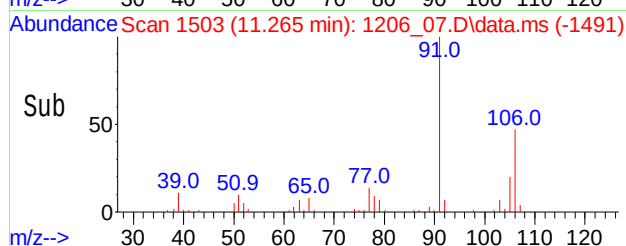
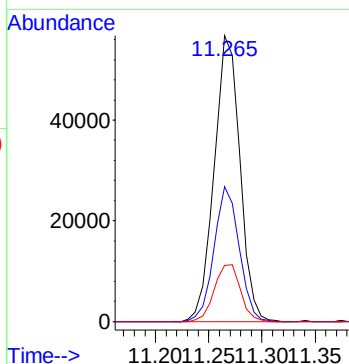
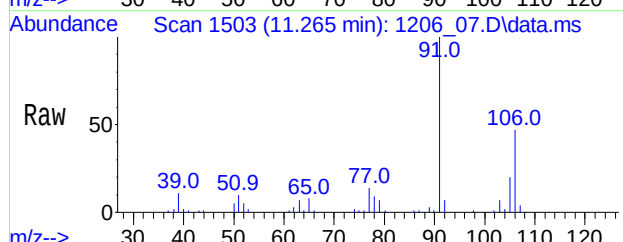
#56  
Ethylbenzene  
Conc: 8\$ 0.242 ppbv  
RT: 11.080 min Scan# 1476  
Delta R.T. -0.024 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 33548 |       |       |
| 106     | 30.0  | 6.9   | 46.9  |       |
| 77      | 11.1  | 0.0   | 20.0  |       |

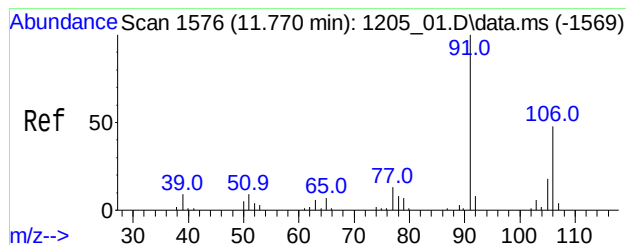


#57  
m,p-Xylene  
Conc: 8\$ 0.935 ppbv  
RT: 11.265 min Scan# 1503  
Delta R.T. -0.018 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 95277 |       |       |
| 106     | 46.0  | 34.9  | 52.3  |       |
| 105     | 20.3  | 16.3  | 24.5  |       |

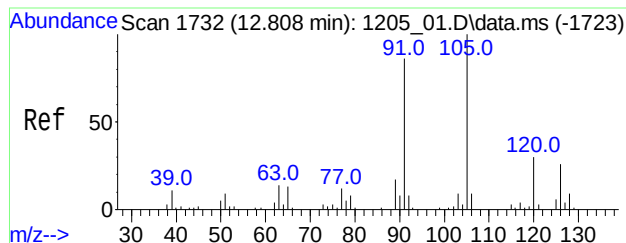
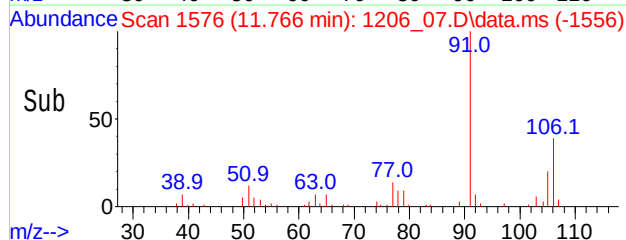
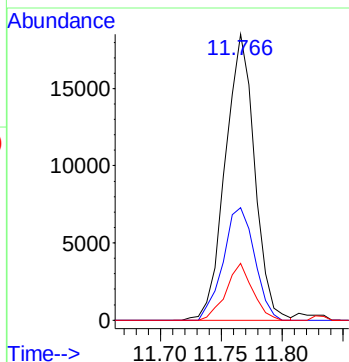
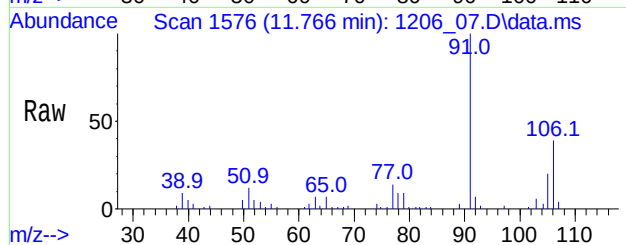






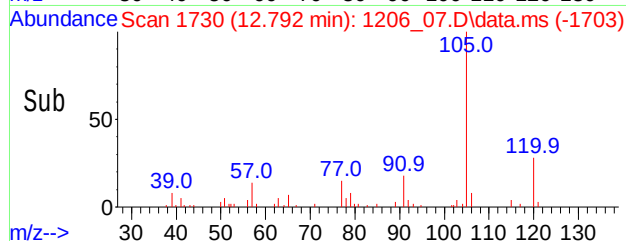
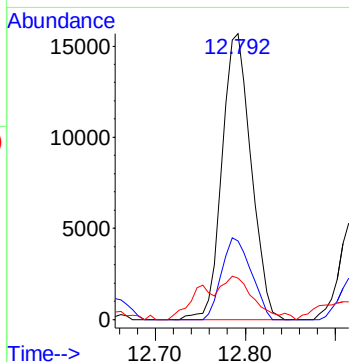
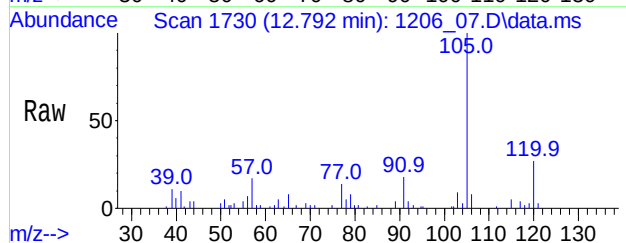
#61  
o-Xylene  
Conc: 8\$ 0.256 ppbv  
RT: 11.766 min Scan# 1576  
Delta R.T. -0.011 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

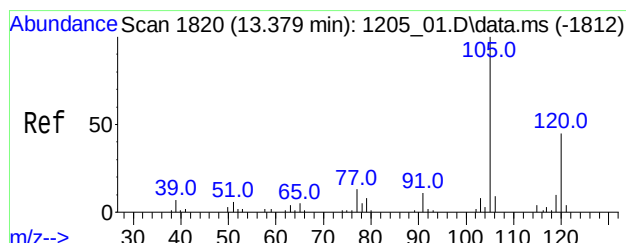
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 30722 |       |       |
| 106     | 42.3  | 32.4  | 48.6  |       |
| 105     | 18.0  | 9.0   | 13.4  |       |



#66  
4-Ethyltoluene  
Conc: 8\$ 0.237 ppbv  
RT: 12.792 min Scan# 1730  
Delta R.T. -0.023 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

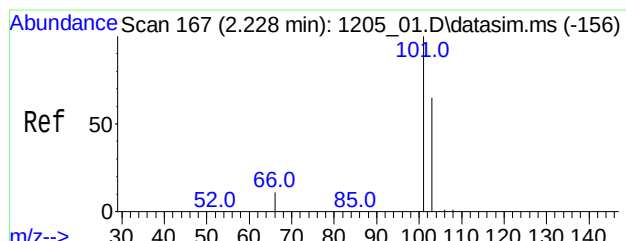
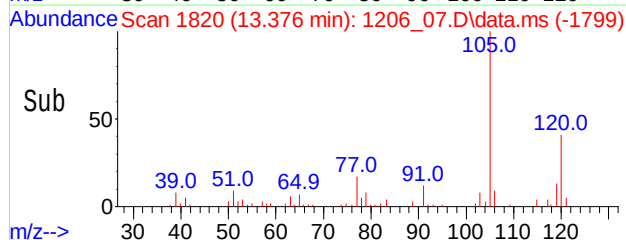
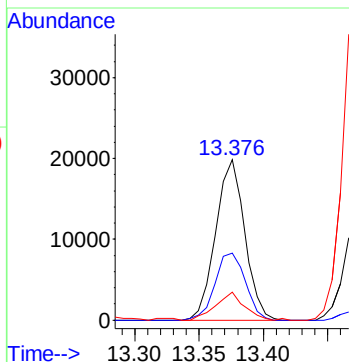
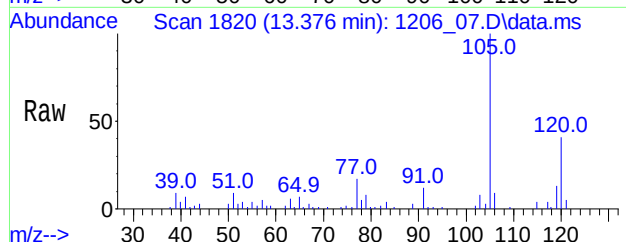
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 35041 |       |       |
| 120     | 29.1  | 23.0  | 34.6  |       |
| 77      | 16.8  | 14.0  | 21.0  |       |





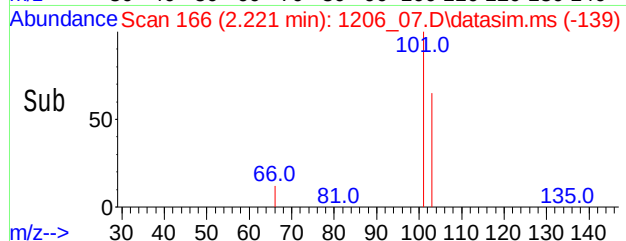
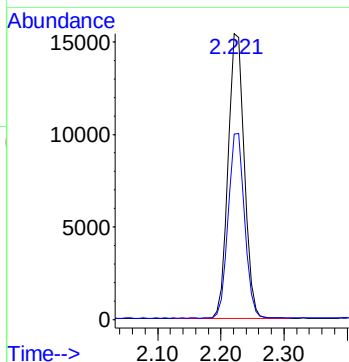
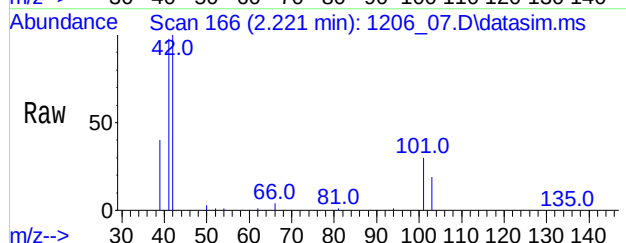
#68  
1,2,4-Trimethylbenzene  
Conc: 8\$ 0.253 ppbv  
RT: 13.376 min Scan# 1820  
Delta R.T. -0.016 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

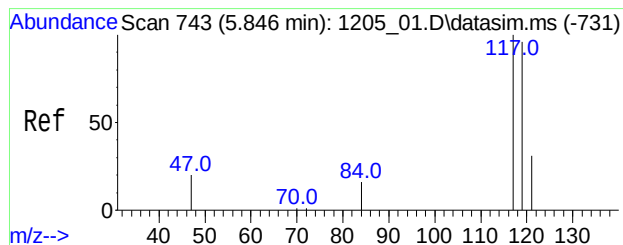
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 30717 |       |       |
| 120     | 43.7  | 34.3  | 51.5  |       |
| 77      | 17.1  | 4.4   | 6.6#  |       |



#84  
Trichlorofluoromethane(sim)  
Conc: 8\$ 0.177 ppbv  
RT: 2.221 min Scan# 166  
Delta R.T. -0.014 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

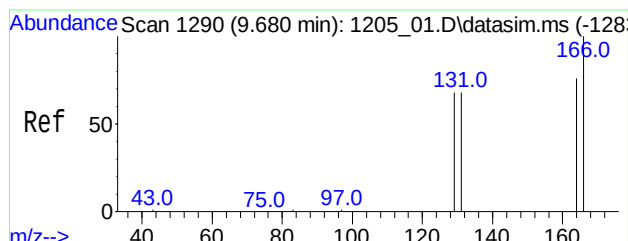
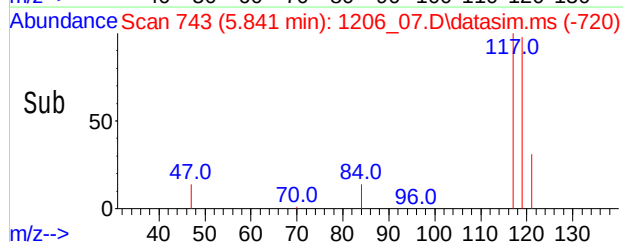
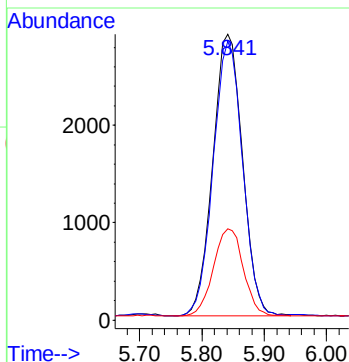
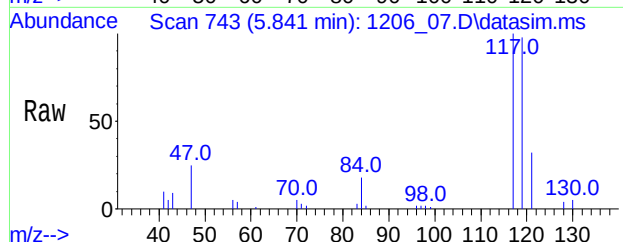
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 101     | 100   | 27546 |       |       |
| 103     | 65.7  | 56.3  | 84.5  |       |





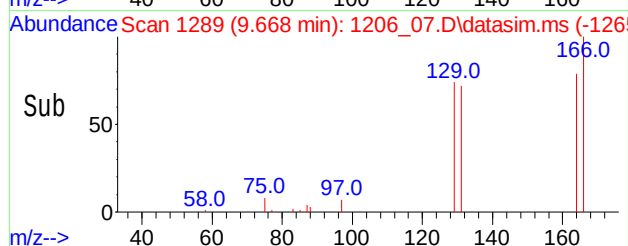
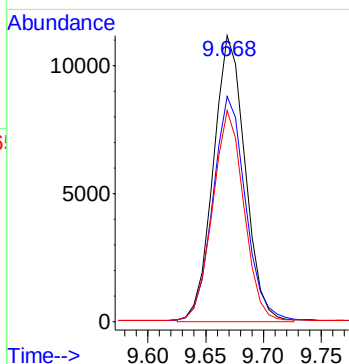
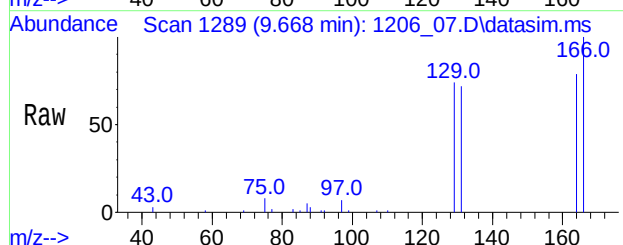
#86  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.087 ppbv  
RT: 5.841 min Scan# 743  
Delta R.T. -0.033 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

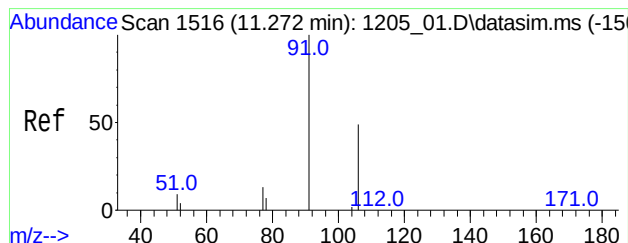
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 9416 |       |       |
| 119     | 96.3  | 75.9 |       | 113.9 |
| 121     | 31.2  | 24.9 |       | 37.3  |



#103  
Tetrachloroethene(sim)  
Conc: 8\$ 0.283 ppbv  
RT: 9.665 min Scan# 1289  
Delta R.T. -0.033 min  
Lab File: 1206\_07.D  
Acq: 6 Dec 2019 6:46 pm

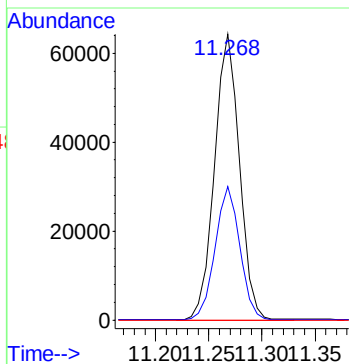
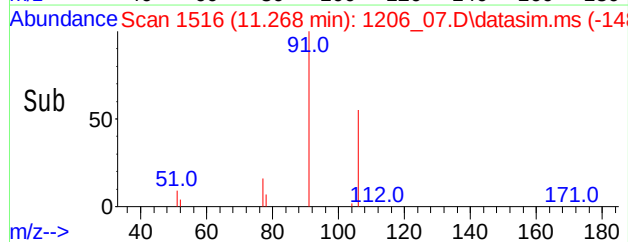
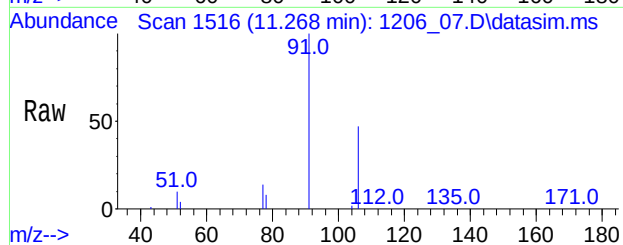
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 20002 |       |       |
| 164     | 81.8  | 40.5  |       | 80.5# |
| 129     | 72.5  | 0.0   |       | 20.0# |





#107  
 m,p-Xylene(sim)  
 Conc: 8\$ 0.892 ppbv  
 RT: 11.265 min Scan# 1516  
 Delta R.T. -0.018 min  
 Lab File: 1206\_07.D  
 Acq: 6 Dec 2019 6:46 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 95277 |       |       |
| 106     | 46.0  | 39.2  | 48.0  |       |
| 105     | 20.3  | 16.3  | 24.5  |       |



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

DRY CLEANER IA-3

Client: CEG Lab: Phoenix Env. Labs

SDG No.: GCE81145 Lab Sample ID: CE81147

Canister: 28583 Lab File ID: 1206\_08.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/05/19

Purge Volume 200 (cc) Date Analyzed: 12/06/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                           | CONC. | Q  | MDL   | PQL   | R |
|------------|------------------------------------|-------|----|-------|-------|---|
| 115-07-1   | Propylene                          | 0.581 | U  | 0.581 | 0.581 | r |
| 75-71-8    | Dichlorodifluoromethane            | 0.202 | U  | 0.202 | 0.202 | r |
| 74-87-3    | Chloromethane                      | 0.817 |    | 0.485 | 0.485 | r |
| 106-99-0   | 1,3-Butadiene                      | 0.452 | U  | 0.452 | 0.452 | r |
| 75-00-3    | Chloroethane                       | 0.379 | U  | 0.379 | 0.379 | r |
| 64-17-5    | Ethanol                            | 53.0  | ES | 0.531 | 0.531 | r |
| 67-64-1    | Acetone                            | 5.67  | S  | 0.421 | 0.421 | r |
| 67-63-0    | Isopropylalcohol                   | 4.61  | S  | 0.407 | 0.407 | r |
| 107-13-1   | Acrylonitrile                      | 0.461 | U  | 0.461 | 0.461 | r |
| 75-09-2    | Methylene Chloride                 | 0.864 | U  | 0.864 | 0.864 | r |
| 75-15-0    | Carbon Disulfide                   | 0.321 | U  | 0.321 | 0.321 | r |
| 1634-04-4  | Methyl tert-butyl ether(MTBE)      | 0.278 | U  | 0.278 | 0.278 | r |
| 78-93-3    | Methyl Ethyl Ketone                | 0.412 |    | 0.339 | 0.339 | r |
| 110-54-3   | Hexane                             | 0.645 | S  | 0.284 | 0.284 | r |
| 141-78-6   | Ethyl acetate                      | 1.20  |    | 0.278 | 0.278 | r |
| 109-99-9   | Tetrahydrofuran                    | 0.339 | U  | 0.339 | 0.339 | r |
| 71-43-2    | Benzene                            | 0.423 |    | 0.313 | 0.313 | r |
| 110-82-7   | Cyclohexane                        | 0.291 | U  | 0.291 | 0.291 | r |
| 79-01-6    | Trichloroethene                    | 5.77  |    | 0.037 | 0.037 | r |
| 142-82-5   | Heptane                            | 0.288 |    | 0.244 | 0.244 | r |
| 108-10-1   | 4-Methyl-2-pentanone(MIBK)         | 0.244 | U  | 0.244 | 0.244 | r |
| 10061-02-6 | trans-1,3-Dichloropropene          | 0.221 | U  | 0.221 | 0.221 | r |
| 108-88-3   | Toluene                            | 1.10  |    | 0.266 | 0.266 | r |
| 591-78-6   | 2-Hexanone(MBK)                    | 0.244 | U  | 0.244 | 0.244 | r |
| 127-18-4   | Tetrachloroethene                  | 0.943 |    | 0.037 | 0.037 | r |
| 108-90-7   | Chlorobenzene                      | 0.217 | U  | 0.217 | 0.217 | r |
| 100-41-4   | Ethylbenzene                       | 0.230 | U  | 0.230 | 0.230 | r |
| 100-42-5   | Styrene                            | 0.235 | U  | 0.235 | 0.235 | r |
| 95-47-6    | o-Xylene                           | 0.230 | U  | 0.230 | 0.230 | r |
| 98-82-8    | Isopropylbenzene                   | 0.204 | U  | 0.204 | 0.204 | r |
| 622-96-8   | 4-Ethyltoluene                     | 0.242 |    | 0.204 | 0.204 | r |
| 108-67-8   | 1,3,5-Trimethylbenzene             | 0.204 | U  | 0.204 | 0.204 | r |
| 95-63-6    | 1,2,4-Trimethylbenzene             | 0.256 |    | 0.204 | 0.204 | r |
| 76-14-2    | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U  | 0.143 | 0.143 | r |
| 75-01-4    | Vinyl Chloride(sim)                | 0.078 | U  | 0.078 | 0.078 | r |
| 74-83-9    | Bromomethane(sim)                  | 0.258 | U  | 0.258 | 0.258 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

DRY CLEANER IA-3

Client: CEG Lab: Phoenix Env. Labs

SDG No.: GCE81145 Lab Sample ID: CE81147

Canister: 28583 Lab File ID: 1206\_08.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/05/19

Purge Volume 200 (cc) Date Analyzed: 12/06/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|-------------|--------------------------------|-------|---|-------|-------|---|
| 75-69-4     | Trichlorofluoromethane(sim)    | 0.178 | U | 0.178 | 0.178 | r |
| 71-55-6     | 1,1,1-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 56-23-5     | Carbon Tetrachloride(sim)      | 0.079 |   | 0.032 | 0.032 | r |
| 75-35-4     | 1,1-Dichloroethene(sim)        | 0.051 | U | 0.051 | 0.051 | r |
| 76-13-1     | Trichlorotrifluoroethane(sim)  | 0.131 | U | 0.131 | 0.131 | r |
| 156-60-5    | Trans-1,2-Dichloroethene(sim)  | 0.252 | U | 0.252 | 0.252 | r |
| 75-34-3     | 1,1-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 156-59-2    | Cis-1,2-Dichloroethene(sim)    | 0.051 | U | 0.051 | 0.051 | r |
| 67-66-3     | Chloroform(sim)                | 0.205 | U | 0.205 | 0.205 | r |
| 107-06-2    | 1,2-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 78-87-5     | 1,2-dichloropropane(sim)       | 0.217 | U | 0.217 | 0.217 | r |
| 75-27-4     | Bromodichloromethane(sim)      | 0.149 | U | 0.149 | 0.149 | r |
| 123-91-1    | 1,4-Dioxane(sim)               | 0.278 | U | 0.278 | 0.278 | r |
| 10061-01-5  | cis-1,3-Dichloropropene(sim)   | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5     | 1,1,2-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1    | Dibromochloromethane(sim)      | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4    | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2     | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6    | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 179601-23-1 | m,p-Xylene(sim)                | 0.294 |   | 0.230 | 0.230 | r |
| 79-34-5     | 1,1,2,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 100-44-7    | Benzyl chloride(sim)           | 0.193 | U | 0.193 | 0.193 | r |
| 541-73-1    | 1,3-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 106-46-7    | 1,4-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 135-98-8    | sec-Butylbenzene(sim)          | 0.182 | U | 0.182 | 0.182 | r |
| 99-87-6     | 4-Isopropyltoluene(sim)        | 0.182 | U | 0.182 | 0.182 | r |
| 95-50-1     | 1,2-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 104-51-8    | n-Butylbenzene(sim)            | 0.182 | U | 0.182 | 0.182 | r |
| 120-82-1    | 1,2,4-Trichlorobenzene(sim)    | 0.135 | U | 0.135 | 0.135 | r |
| 87-68-3     | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_08.D  
 Acq On : 6 Dec 2019 7:22 pm  
 Operator : Keith  
 Client ID : DRY CLEANER IA-3  
 Lab ID : CE81147  
 ALS Vial : 104 Sample Multiplier: 1

Quant Time: Dec 09 09:01:37 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

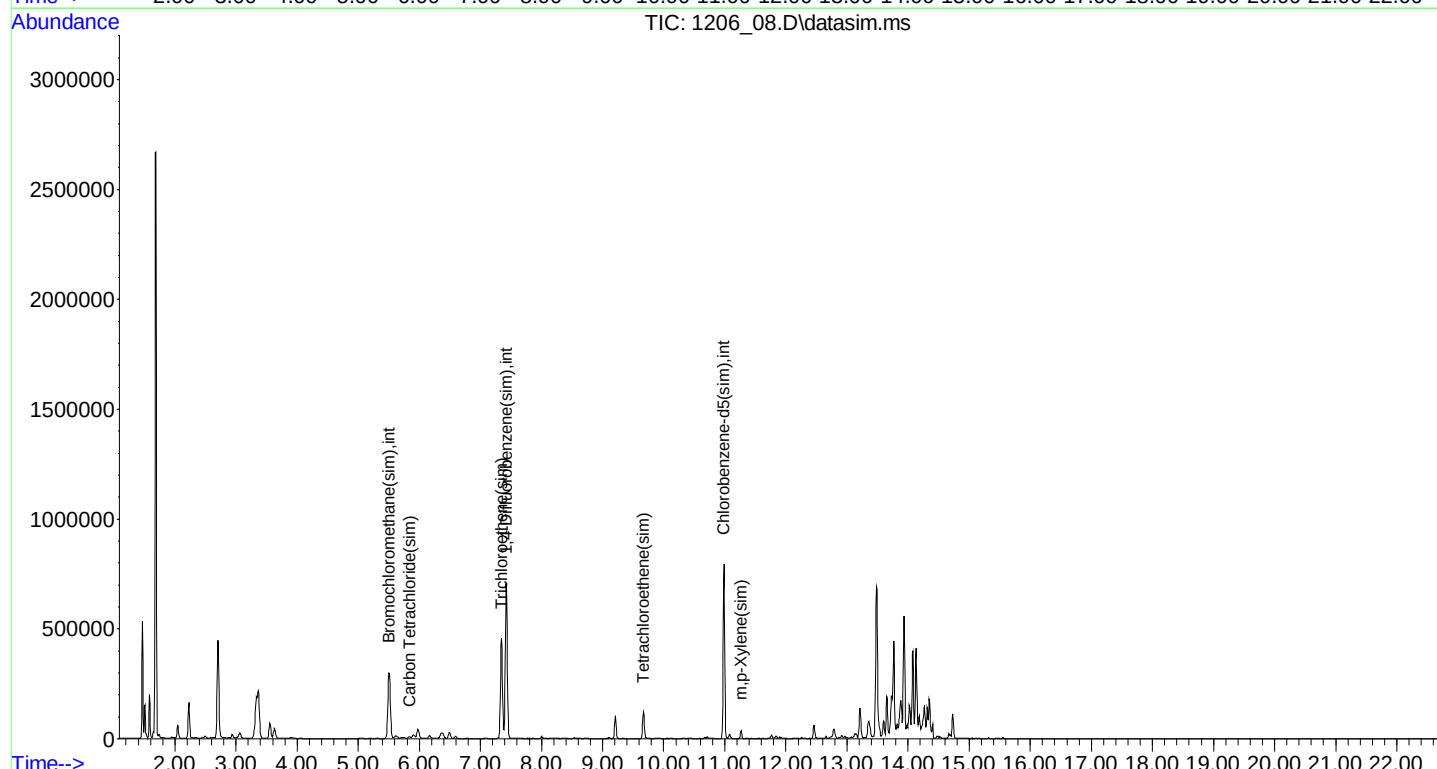
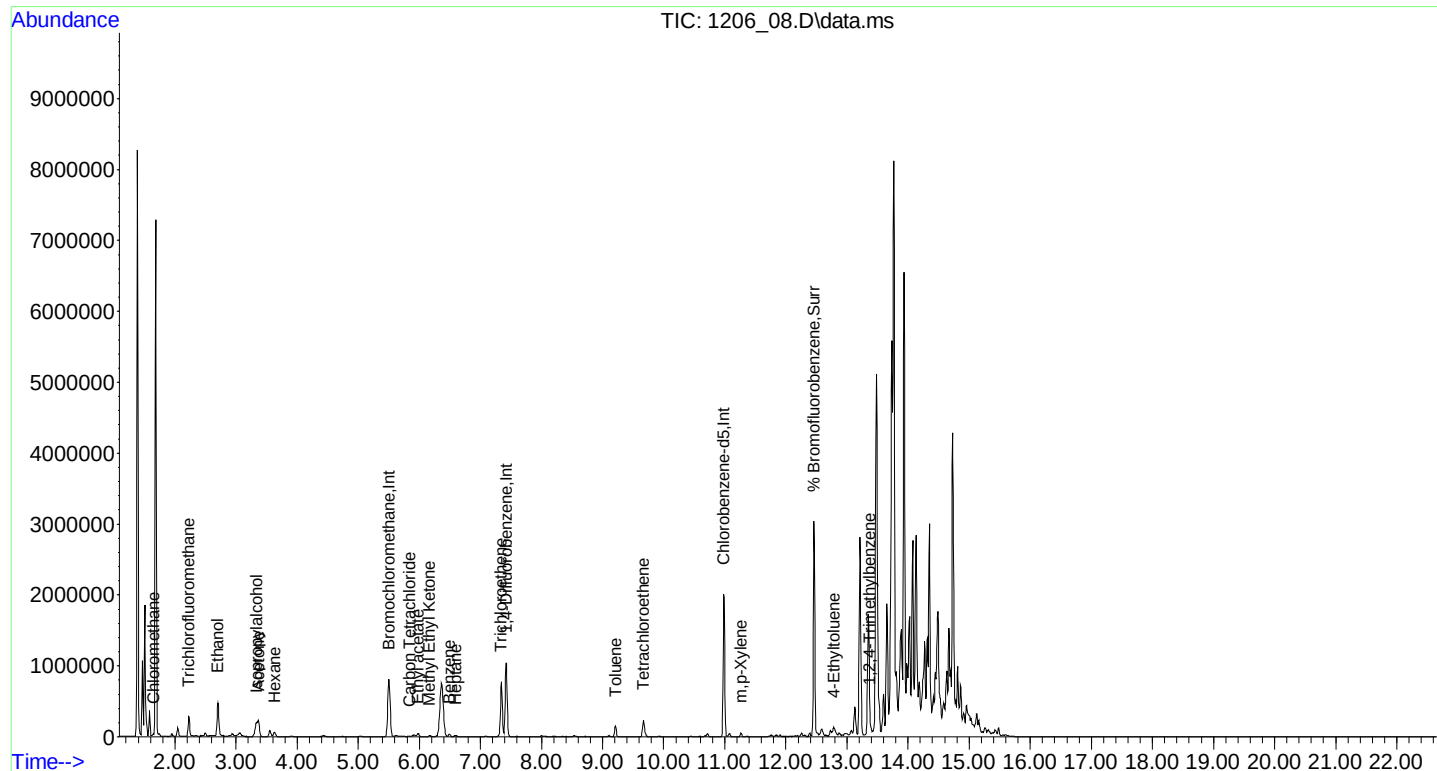
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.506  | 130   | 406976   | 10.000   | ng     | -0.03    |
| 36) 1,4-Difluorobenzene       | 7.425  | 114   | 977288   | 10.000   | ng     | -0.02    |
| 53) Chlorobenzene-d5          | 10.984 | 82    | 623786   | 10.000   | ng     | -0.02    |
| 80) Bromochloromethane(sim)   | 5.502  | 130   | 424699   | 10.000   | ng     | #-0.03   |
| 94) 1,4-Difluorobenzene(sim)  | 7.421  | 114   | 1074241  | 10.000   | ng     | #-0.02   |
| 104) Chlorobenzene-d5(sim)    | 10.987 | 82    | 679881   | 10.000   | ng     | -0.02    |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 12.461 | 95    | 926971   | 9.853    | ppbv   | -0.02    |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 98.50%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 4) Chloromethane              | 1.649  | 50    | 26445    | 0.817    | ppbv   | 87       |
| 10) Ethanol                   | 2.704  | 45    | 534991   | 52.985   | ppbv#  | 91       |
| 12) Acetone                   | 3.368  | 43    | 372581   | 5.673    | ppbv   | 98       |
| 13) Trichlorofluoromethane    | 2.225  | 101   | 25941    | 0.197    | ppbv#  | 92       |
| 14) Isopropylalcohol          | 3.333  | 45    | 259651   | 4.611    | ppbv#  | 1        |
| 25) Methyl Ethyl Ketone       | 6.170  | 43    | 21390    | 0.412    | ppbv#  | 62       |
| 27) Hexane                    | 3.627  | 57    | 33167    | 0.645    | ppbv   | 94       |
| 29) Ethyl acetate             | 5.982  | 43    | 74628    | 1.195    | ppbv   | 100      |
| 33) Benzene                   | 6.494  | 78    | 39405    | 0.423    | ppbv#  | 81       |
| 34) Carbon Tetrachloride      | 5.838  | 117   | 9198     | 0.085    | ppbv   | 88       |
| 39) Trichloroethene           | 7.343  | 130   | 287991   | 5.770    | ppbv   | 90       |
| 43) Heptane                   | 6.596  | 43    | 11380    | 0.288    | ppbv#  | 34       |
| 48) Toluene                   | 9.211  | 91    | 112433   | 1.095    | ppbv   | 94       |
| 52) Tetrachloroethene         | 9.666  | 166   | 66307    | 0.943    | ppbv   | 91       |
| 57) m,p-Xylene                | 11.265 | 91    | 31568    | 0.305    | ppbv   | 97       |
| 66) 4-Ethyltoluene            | 12.785 | 105   | 36213    | 0.242    | ppbv#  | 94       |
| 68) 1,2,4-Trimethylbenzene    | 13.376 | 105   | 31610    | 0.256    | ppbv#  | 91       |
| 86) Carbon Tetrachloride(sim) | 5.841  | 117   | 9095     | 0.079    | ppbv   | 98       |
| 97) Trichloroethene(sim)      | 7.343  | 130   | 287522   | 6.112    | ppbv#  | 87       |
| 103) Tetrachloroethene(sim)   | 9.666  | 166   | 66082    | 1.029    | ppbv   | 77       |
| 107) m,p-Xylene(sim)          | 11.265 | 91    | 31568    | 0.294    | ppbv   | 97       |

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

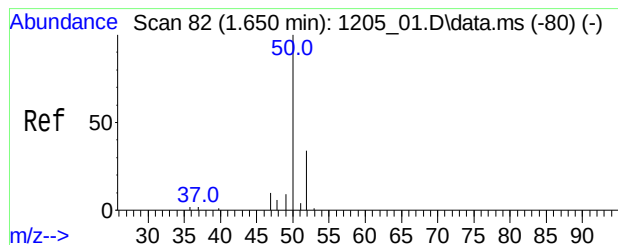
# Quantitation Report (QT Reviewed)

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 Data File : 1206\_08.D  
 Acq On : 6 Dec 2019 7:22 pm  
 Operator : Keith  
 Client ID : DRY CLEANER IA-3  
 Lab ID : CE81147  
 ALS Vial : 104 Sample Multiplier: 1

Quant Time: Dec 09 09:01:37 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

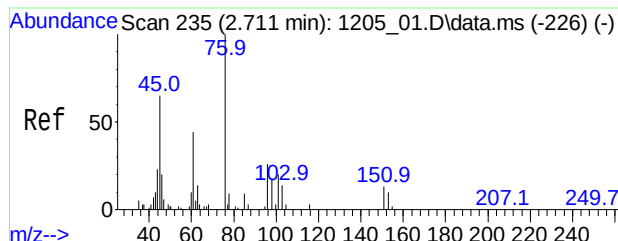
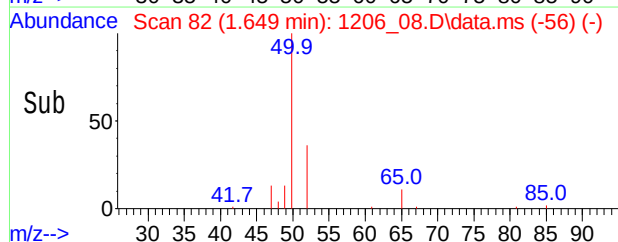
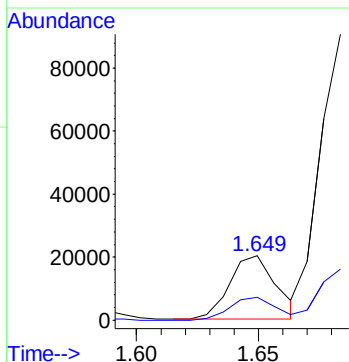
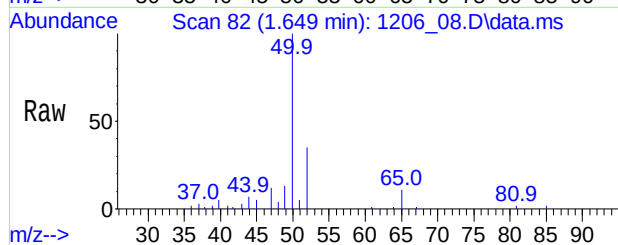






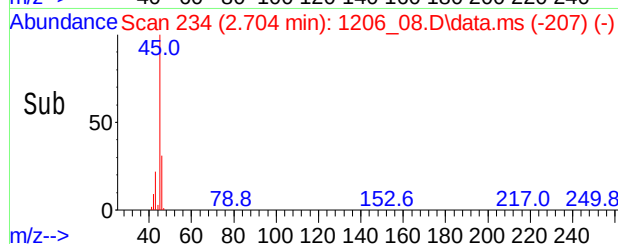
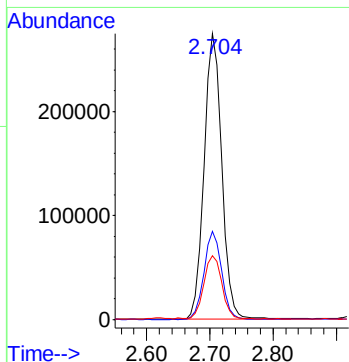
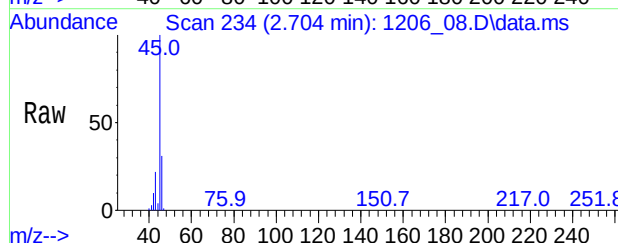
#4  
Chloromethane  
Conc: 8\$ 0.817 ppbv  
RT: 1.649 min Scan# 82  
Delta R.T. -0.021 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

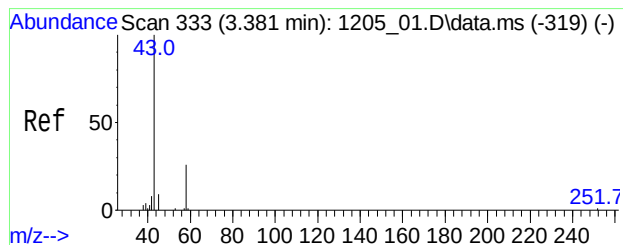
Tgt Ion: 50 Resp: 26445  
Ion Ratio Lower Upper  
50 100  
52 35.4 8.7 48.7



#10  
Ethanol  
Conc: 8\$ 52.985 ppbv  
RT: 2.704 min Scan# 234  
Delta R.T. -0.014 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

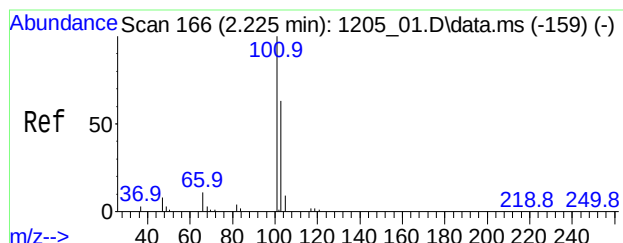
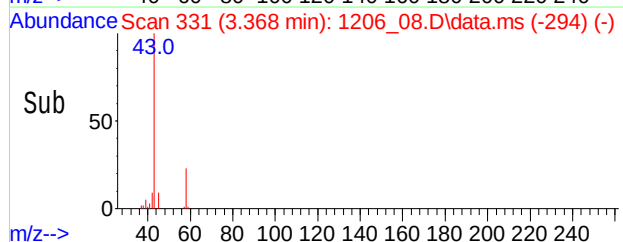
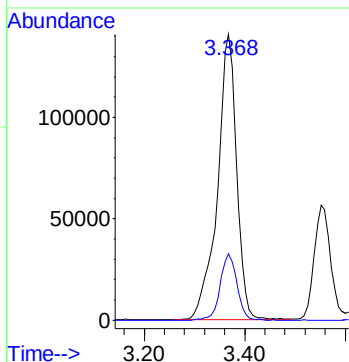
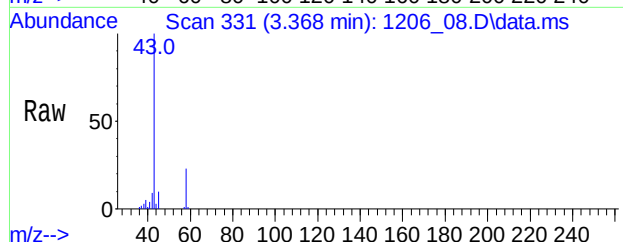
Tgt Ion: 45 Resp: 534991  
Ion Ratio Lower Upper  
45 100  
46 30.8 24.5 36.7  
43 22.4 7.0 10.4#





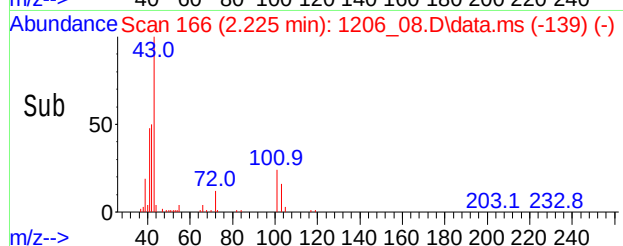
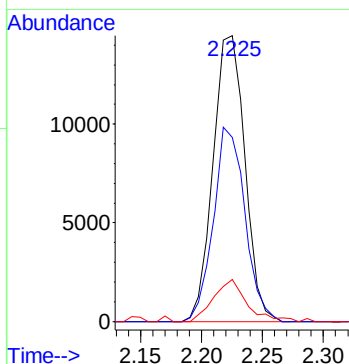
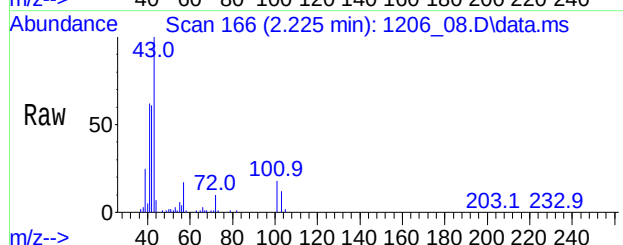
#12  
Acetone  
Conc: 8\$ 5.673 ppbv  
RT: 3.368 min Scan# 331  
Delta R.T. -0.047 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

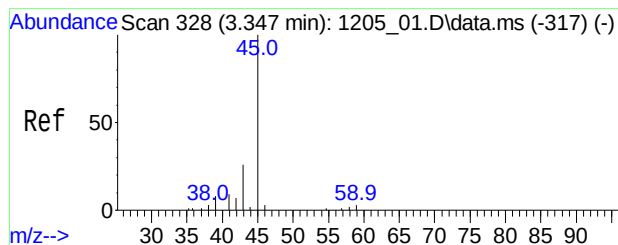
Tgt Ion: 43 Resp: 372581  
Ion Ratio Lower Upper  
43 100  
58 20.2 15.4 23.0



#13  
Trichlorofluoromethane  
Conc: 8\$ 0.197 ppbv  
RT: 2.225 min Scan# 166  
Delta R.T. -0.014 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

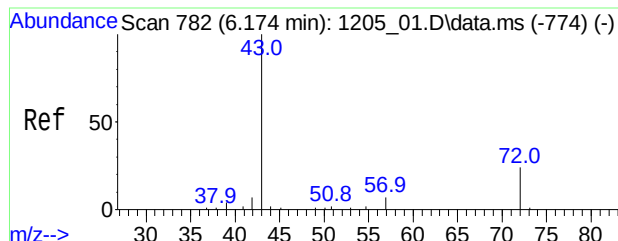
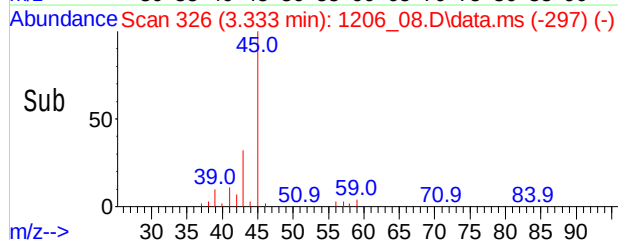
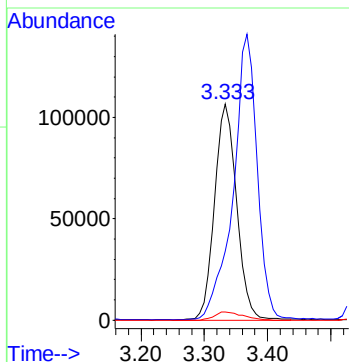
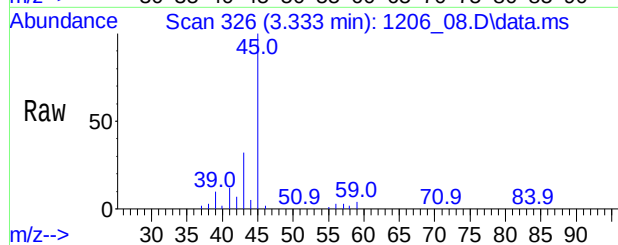
Tgt Ion: 101 Resp: 25941  
Ion Ratio Lower Upper  
101 100  
103 67.2 55.4 83.2  
66 15.5 22.0 33.0#





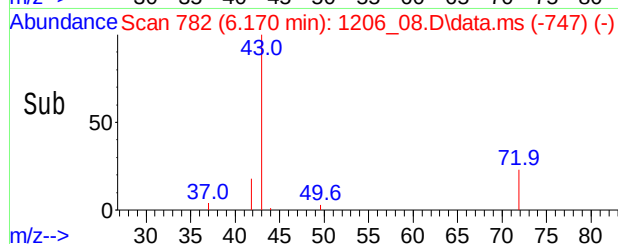
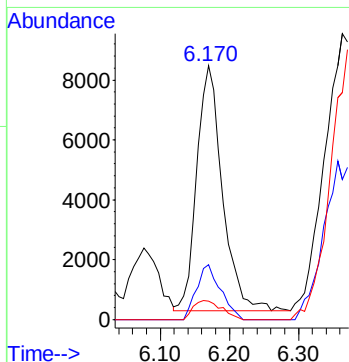
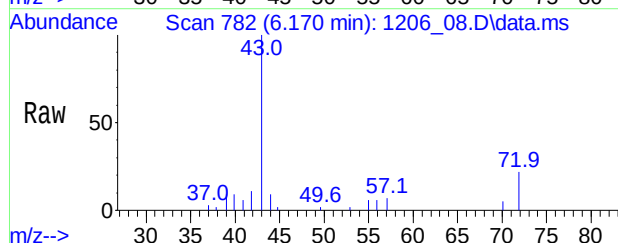
#14  
Isopropylalcohol  
Conc: 8\$ 4.611 ppbv  
RT: 3.333 min Scan# 326  
Delta R.T. 0.000 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

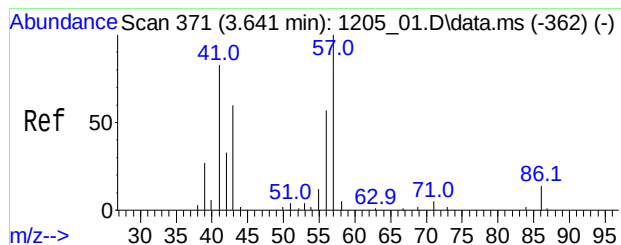
Tgt Ion: 45 Resp: 259651  
Ion Ratio Lower Upper  
45 100  
43 143.5 24.0 36.0#  
59 4.8 0.0 0.0#



#25  
Methyl Ethyl Ketone  
Conc: 8\$ 0.412 ppbv  
RT: 6.170 min Scan# 782  
Delta R.T. -0.047 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

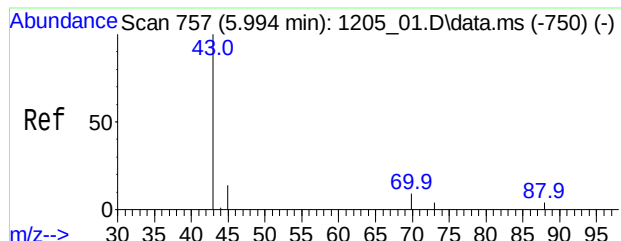
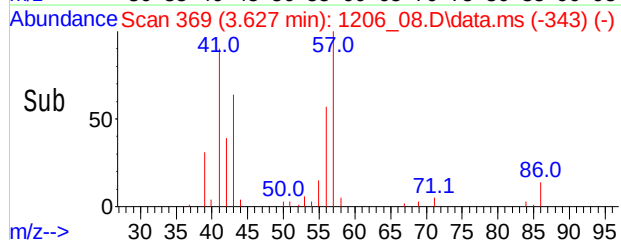
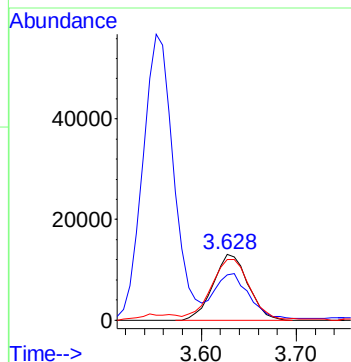
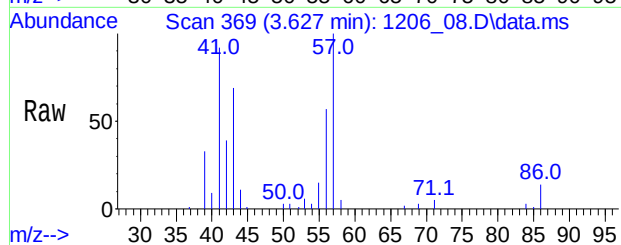
Tgt Ion: 43 Resp: 21390  
Ion Ratio Lower Upper  
43 100  
72 22.7 7.2 10.8#  
57 9.2 0.0 0.0#





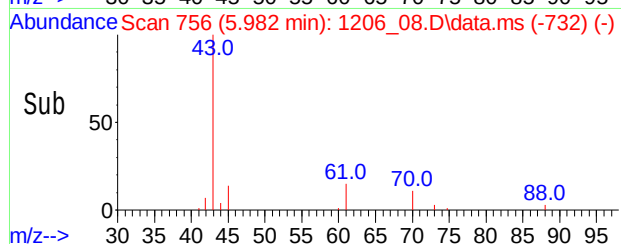
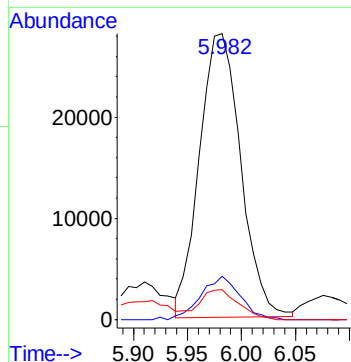
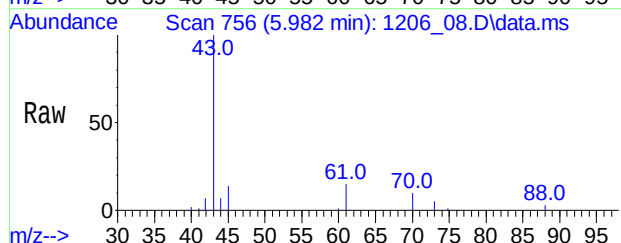
#27  
Hexane  
Conc: 8\$ 0.645 ppbv  
RT: 3.627 min Scan# 369  
Delta R.T. -0.021 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

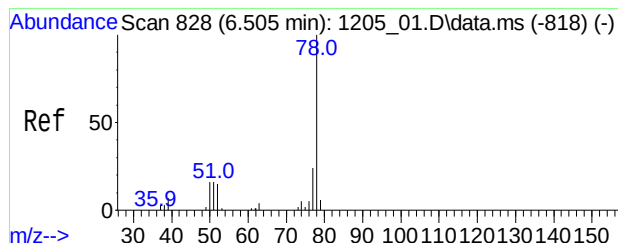
Tgt Ion: 57 Resp: 33167  
Ion Ratio Lower Upper  
57 100  
43 65.9 50.9 76.3  
41 99.3 85.5 128.3



#29  
Ethyl acetate  
Conc: 8\$ 1.195 ppbv  
RT: 5.982 min Scan# 756  
Delta R.T. -0.026 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

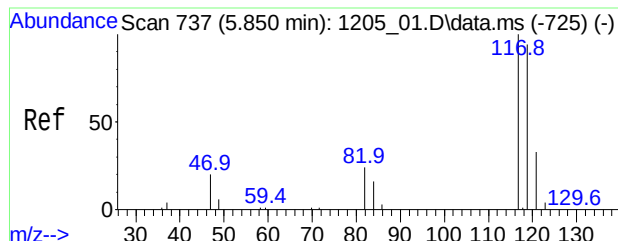
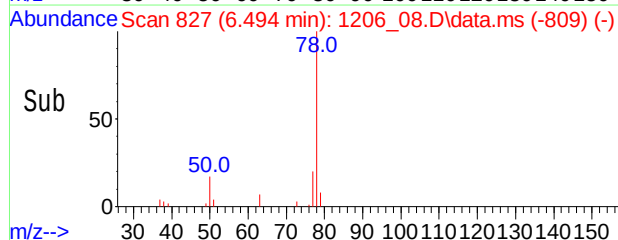
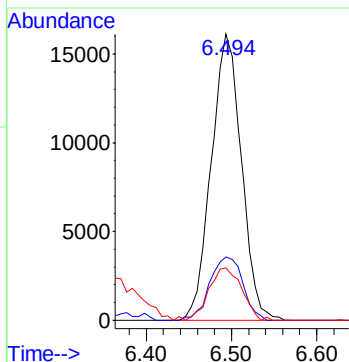
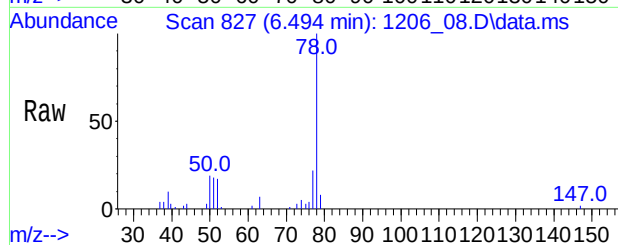
Tgt Ion: 43 Resp: 74628  
Ion Ratio Lower Upper  
43 100  
61 14.5 0.0 0.0#  
70 9.3 0.0 0.0#





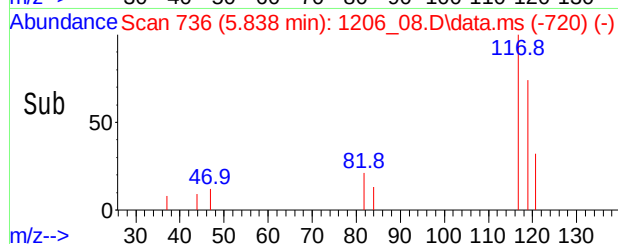
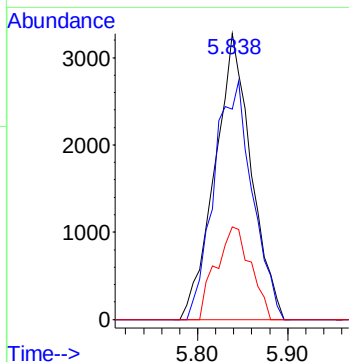
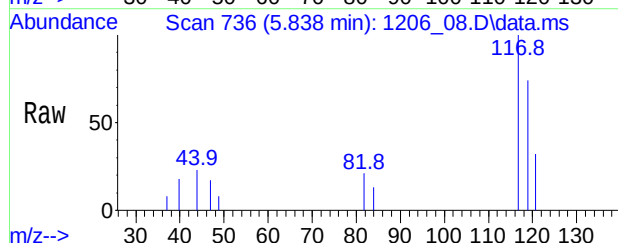
#33  
Benzene  
Conc: 8\$ 0.423 ppbv  
RT: 6.494 min Scan# 827  
Delta R.T. -0.024 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

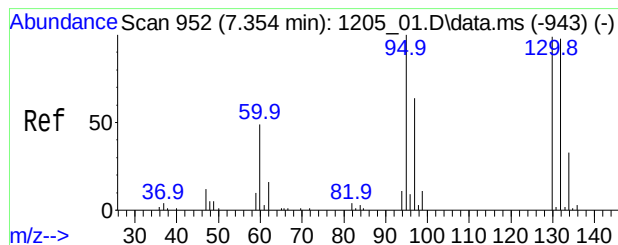
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 78      | 100   | 39405 |       |       |
| 77      | 24.1  | 8.7   | 13.1# |       |
| 51      | 19.8  | 20.6  | 30.8# |       |



#34  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 5.838 min Scan# 736  
Delta R.T. -0.033 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

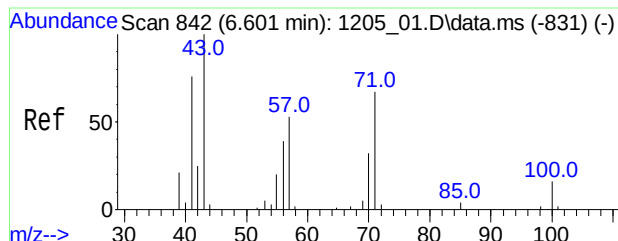
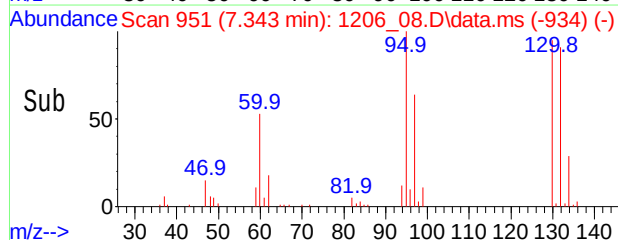
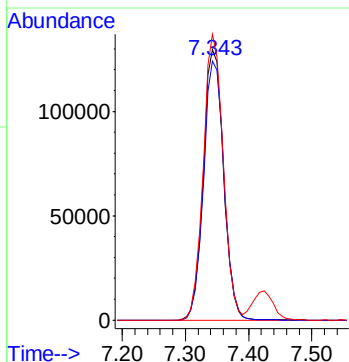
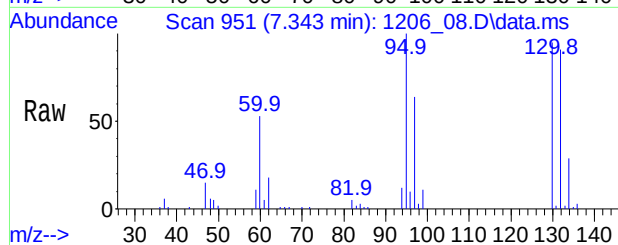
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 9198 |       |       |
| 119     | 88.2  | 75.7 | 115.7 |       |
| 121     | 30.8  | 0.0  | 34.9  |       |





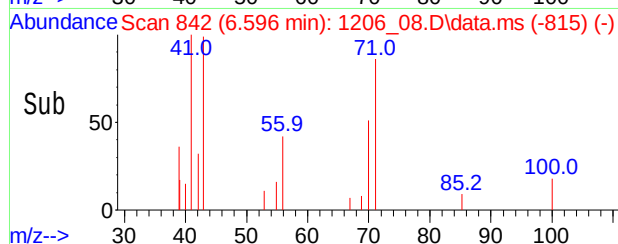
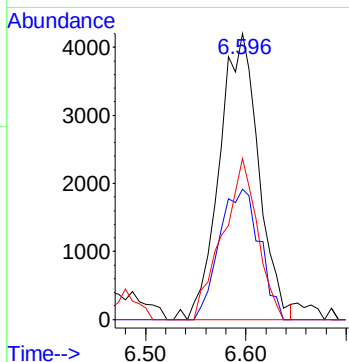
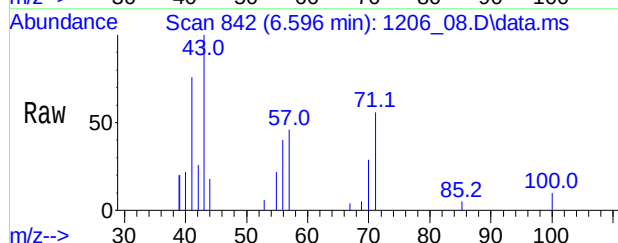
#39  
Trichloroethene  
Conc: 8\$ 5.770 ppbv  
RT: 7.343 min Scan# 951  
Delta R.T. -0.031 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

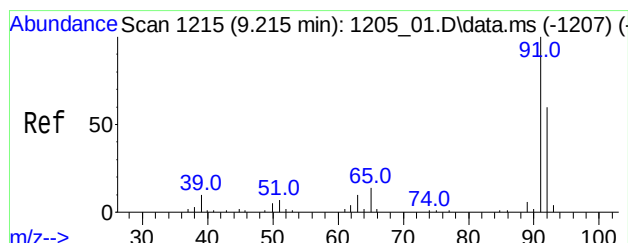
Tgt Ion: 130 Resp: 287991  
Ion Ratio Lower Upper  
130 100  
132 97.0 69.8 104.8  
95 104.4 0.0 0.0#



#43  
Heptane  
Conc: 8\$ 0.288 ppbv  
RT: 6.596 min Scan# 842  
Delta R.T. -0.018 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

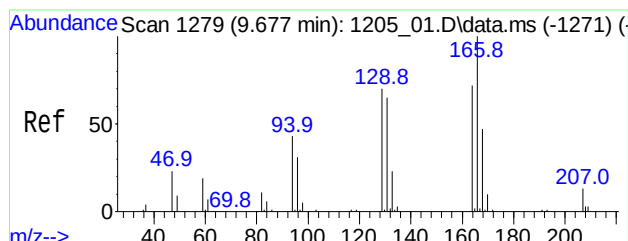
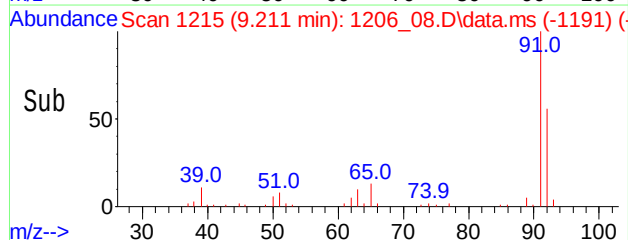
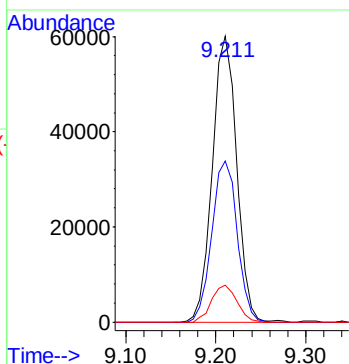
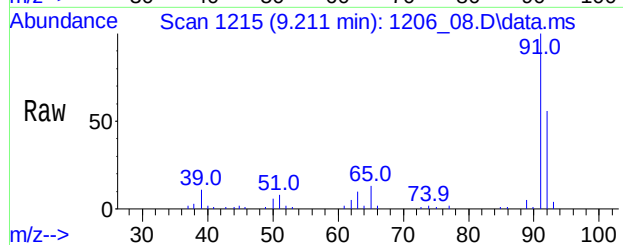
Tgt Ion: 43 Resp: 11380  
Ion Ratio Lower Upper  
43 100  
57 47.1 9.3 13.9#  
71 49.8 18.9 28.3#





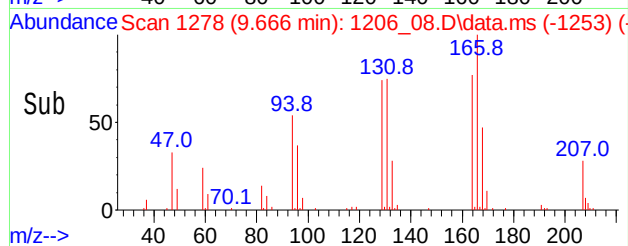
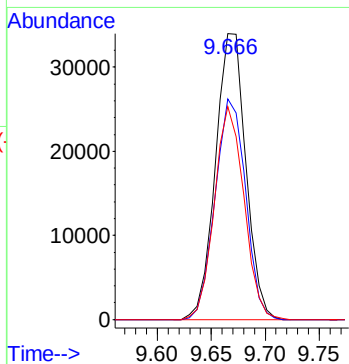
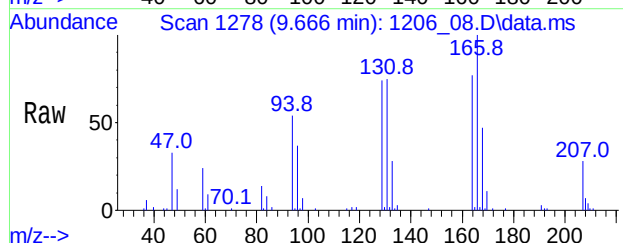
#48  
Toluene  
Conc: 8\$ 1.095 ppbv  
RT: 9.211 min Scan# 1215  
Delta R.T. -0.025 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

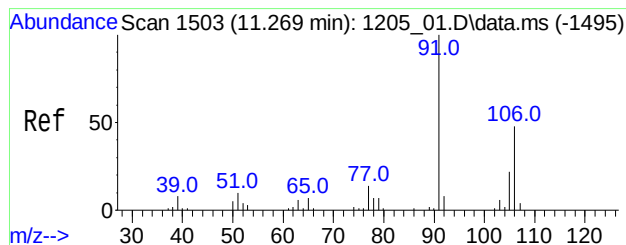
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 112433 |       |       |
| 92      | 58.6  | 50.6   | 75.8  |       |
| 65      | 13.4  | 0.0    | 0.0#  |       |



#52  
Tetrachloroethene  
Conc: 8\$ 0.943 ppbv  
RT: 9.666 min Scan# 1278  
Delta R.T. -0.018 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

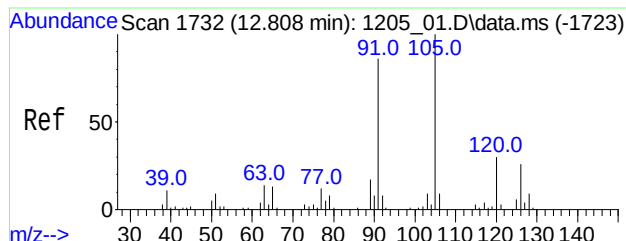
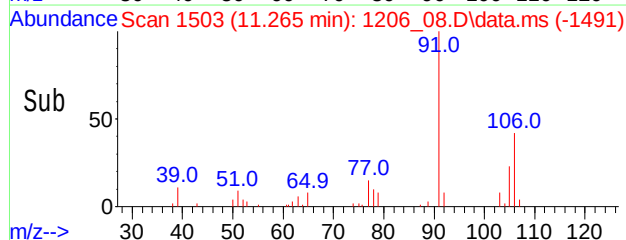
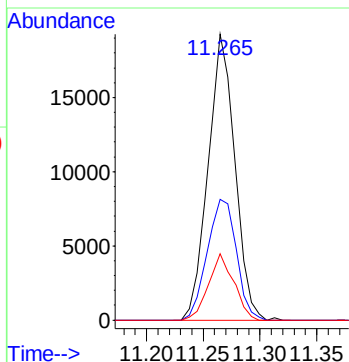
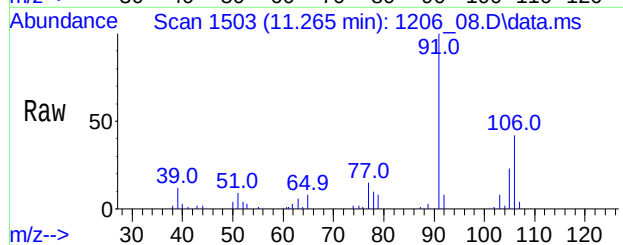
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 66307 |       |       |
| 164     | 77.3  | 53.6  | 80.4  |       |
| 129     | 72.4  | 54.5  | 81.7  |       |





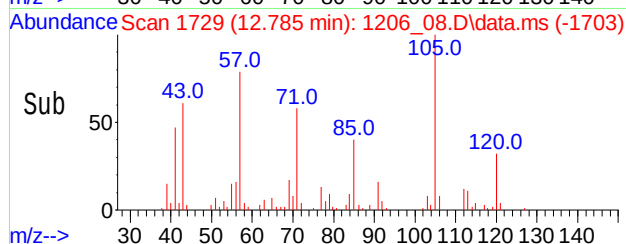
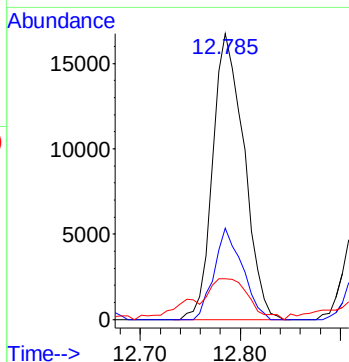
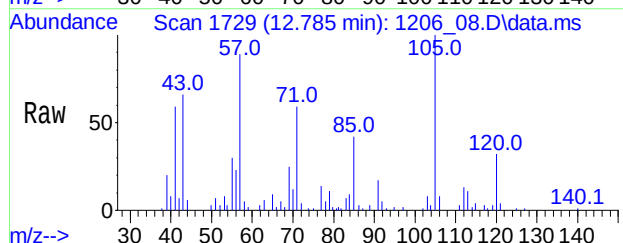
#57  
m,p-Xylene  
Conc: 8\$ 0.305 ppbv  
RT: 11.265 min Scan# 1503  
Delta R.T. -0.018 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 31568 |       |       |
| 106     | 45.9  | 34.9  | 52.3  |       |
| 105     | 22.0  | 16.3  | 24.5  |       |

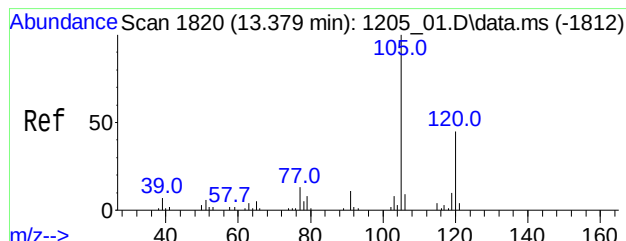


#66  
4-Ethyltoluene  
Conc: 8\$ 0.242 ppbv  
RT: 12.785 min Scan# 1729  
Delta R.T. -0.030 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 36213 |       |       |
| 120     | 28.9  | 23.0  | 34.6  |       |
| 77      | 24.7  | 14.0  | 21.0# |       |

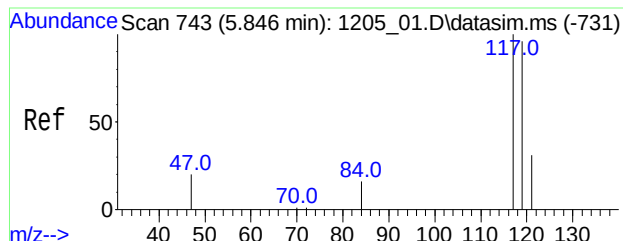
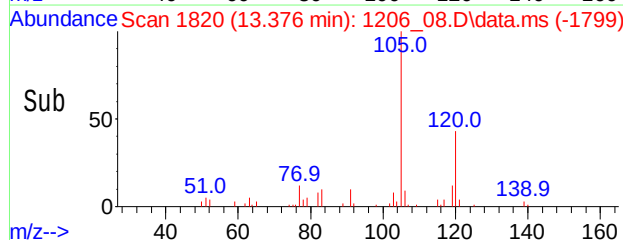
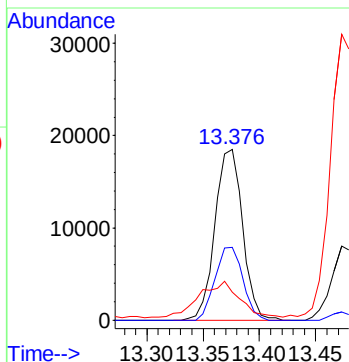
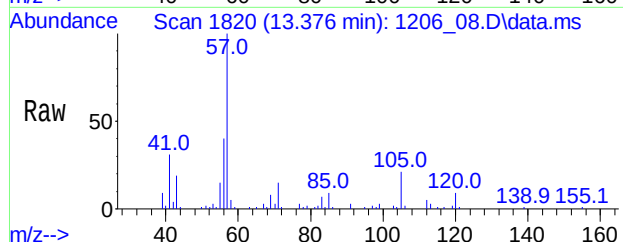






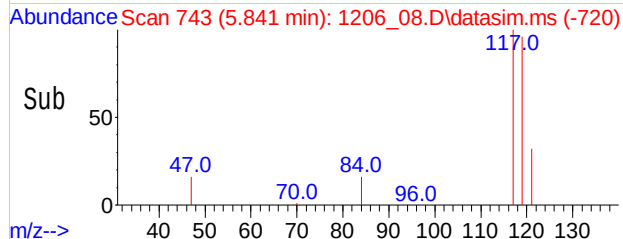
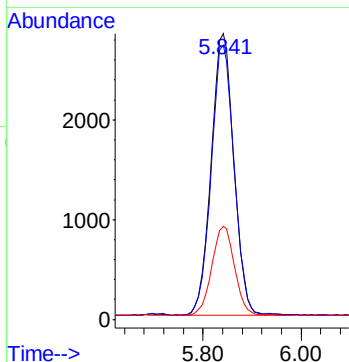
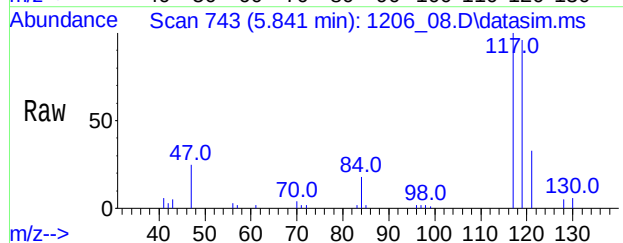
#68  
1,2,4-Trimethylbenzene  
Conc: 8\$ 0.256 ppbv  
RT: 13.376 min Scan# 1820  
Delta R.T. -0.016 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

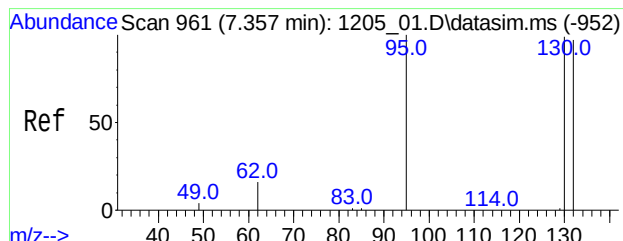
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 31610 |       |       |
| 120     | 42.9  | 34.3  | 51.5  |       |
| 77      | 31.6  | 4.4   | 6.6#  |       |



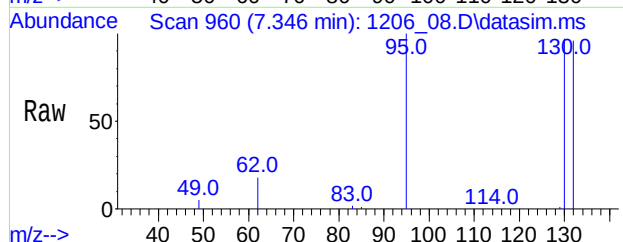
#86  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.079 ppbv  
RT: 5.841 min Scan# 743  
Delta R.T. -0.033 min  
Lab File: 1206\_08.D  
Acq: 6 Dec 2019 7:22 pm

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 9095 |       |       |
| 119     | 96.7  | 75.9 | 113.9 |       |
| 121     | 31.7  | 24.9 | 37.3  |       |

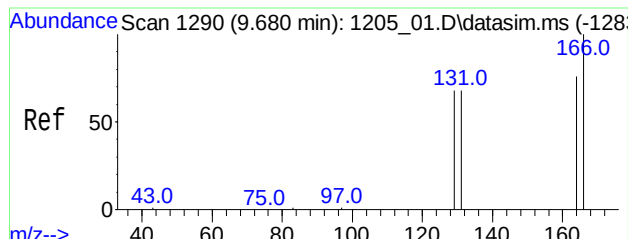
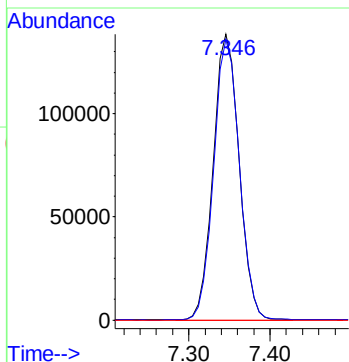
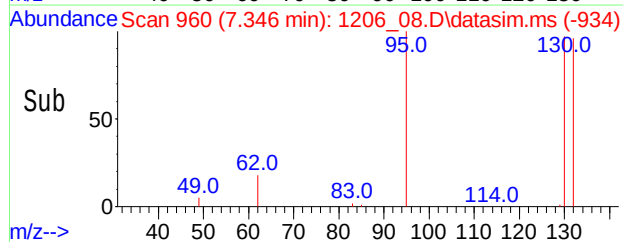




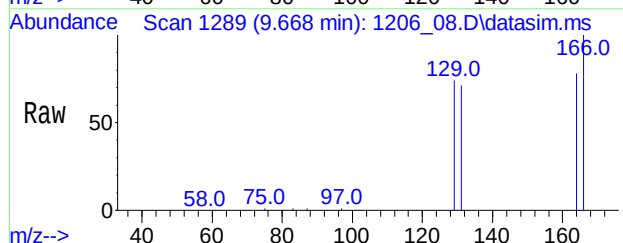
#97  
 Trichloroethene(sim)  
 Conc: 8\$ 6.112 ppbv  
 RT: 7.343 min Scan# 960  
 Delta R.T. -0.024 min  
 Lab File: 1206\_08.D  
 Acq: 6 Dec 2019 7:22 pm



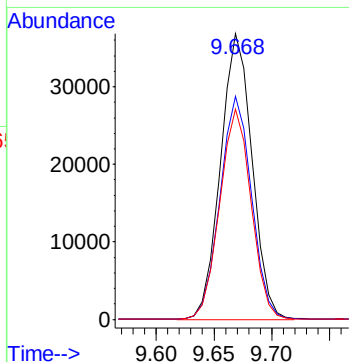
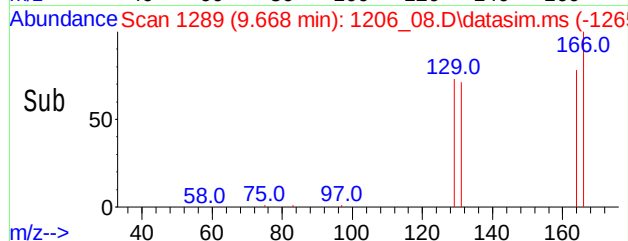
Tgt Ion: 130 Resp: 287522  
 Ion Ratio Lower Upper  
 130 100  
 132 97.1 80.2 120.2  
 97 68.1 36.6 55.0#

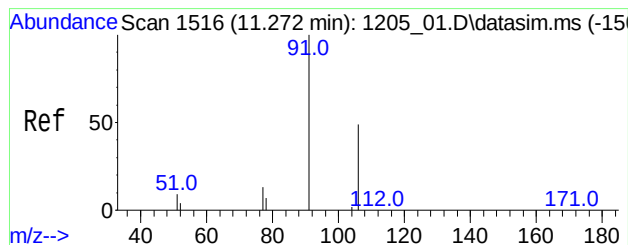


#103  
 Tetrachloroethene(sim)  
 Conc: 8\$ 1.029 ppbv  
 RT: 9.666 min Scan# 1289  
 Delta R.T. -0.032 min  
 Lab File: 1206\_08.D  
 Acq: 6 Dec 2019 7:22 pm



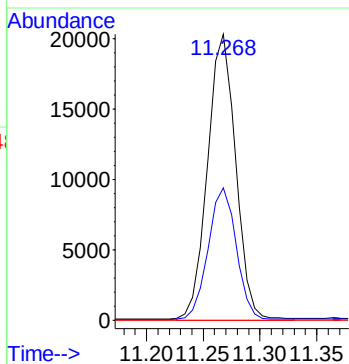
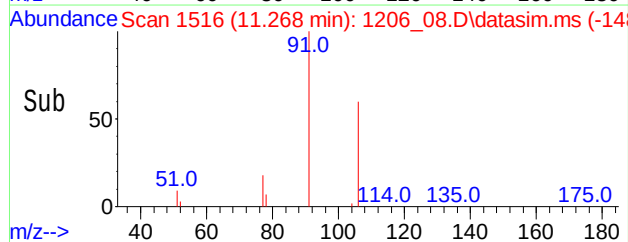
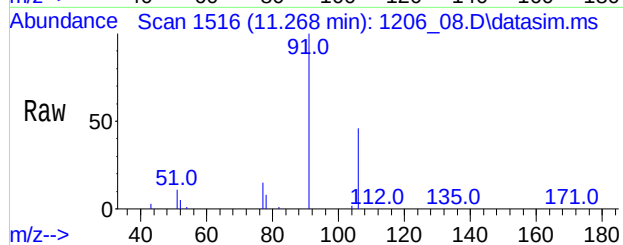
Tgt Ion: 166 Resp: 66082  
 Ion Ratio Lower Upper  
 166 100  
 164 77.6 40.5 80.5  
 129 72.6 0.0 20.0#





#107  
 m,p-Xylene(sim)  
 Conc: 8\$ 0.294 ppbv  
 RT: 11.265 min Scan# 1516  
 Delta R.T. -0.018 min  
 Lab File: 1206\_08.D  
 Acq: 6 Dec 2019 7:22 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 31568 |       |       |
| 106     | 45.9  | 39.2  | 48.0  |       |
| 105     | 22.0  | 16.3  | 24.5  |       |



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

TILE STORE IA-6

Client: CEG Lab: Phoenix Env. Labs

SDG No.: GCE81145 Lab Sample ID: CE81148

Canister: 480 Lab File ID: 1206\_10.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/05/19

Purge Volume 200 (cc) Date Analyzed: 12/06/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                           | CONC. | Q  | MDL   | PQL   | R |
|-------------|------------------------------------|-------|----|-------|-------|---|
| 115-07-1    | Propylene                          | 0.581 | U  | 0.581 | 0.581 | r |
| 75-71-8     | Dichlorodifluoromethane            | 0.202 | U  | 0.202 | 0.202 | r |
| 74-87-3     | Chloromethane                      | 0.599 |    | 0.485 | 0.485 | r |
| 106-99-0    | 1,3-Butadiene                      | 0.452 | U  | 0.452 | 0.452 | r |
| 75-00-3     | Chloroethane                       | 0.379 | U  | 0.379 | 0.379 | r |
| 64-17-5     | Ethanol                            | 185   | ES | 0.531 | 0.531 | r |
| 67-64-1     | Acetone                            | 21.7  | S  | 0.421 | 0.421 | r |
| 67-63-0     | Isopropylalcohol                   | 5.10  | S  | 0.407 | 0.407 | r |
| 107-13-1    | Acrylonitrile                      | 0.461 | U  | 0.461 | 0.461 | r |
| 75-09-2     | Methylene Chloride                 | 1.57  | S  | 0.864 | 0.864 | r |
| 75-15-0     | Carbon Disulfide                   | 0.321 | U  | 0.321 | 0.321 | r |
| 1634-04-4   | Methyl tert-butyl ether(MTBE)      | 0.278 | U  | 0.278 | 0.278 | r |
| 78-93-3     | Methyl Ethyl Ketone                | 6.32  |    | 0.339 | 0.339 | r |
| 110-54-3    | Hexane                             | 4.08  | S  | 0.284 | 0.284 | r |
| 141-78-6    | Ethyl acetate                      | 0.278 | U  | 0.278 | 0.278 | r |
| 109-99-9    | Tetrahydrofuran                    | 7.76  |    | 0.339 | 0.339 | r |
| 71-43-2     | Benzene                            | 0.432 |    | 0.313 | 0.313 | r |
| 110-82-7    | Cyclohexane                        | 0.291 | U  | 0.291 | 0.291 | r |
| 79-01-6     | Trichloroethene                    | 0.267 |    | 0.037 | 0.037 | r |
| 142-82-5    | Heptane                            | 0.246 |    | 0.244 | 0.244 | r |
| 108-10-1    | 4-Methyl-2-pentanone(MIBK)         | 0.244 | U  | 0.244 | 0.244 | r |
| 10061-02-6  | trans-1,3-Dichloropropene          | 0.221 | U  | 0.221 | 0.221 | r |
| 108-88-3    | Toluene                            | 3.01  |    | 0.266 | 0.266 | r |
| 591-78-6    | 2-Hexanone(MBK)                    | 0.244 | U  | 0.244 | 0.244 | r |
| 127-18-4    | Tetrachloroethene                  | 0.294 |    | 0.037 | 0.037 | r |
| 108-90-7    | Chlorobenzene                      | 0.217 | U  | 0.217 | 0.217 | r |
| 100-41-4    | Ethylbenzene                       | 0.614 |    | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene                         | 2.27  |    | 0.230 | 0.230 | r |
| 100-42-5    | Styrene                            | 0.235 | U  | 0.235 | 0.235 | r |
| 95-47-6     | o-Xylene                           | 0.850 |    | 0.230 | 0.230 | r |
| 98-82-8     | Isopropylbenzene                   | 0.204 | U  | 0.204 | 0.204 | r |
| 622-96-8    | 4-Ethyltoluene                     | 0.615 |    | 0.204 | 0.204 | r |
| 108-67-8    | 1,3,5-Trimethylbenzene             | 0.270 |    | 0.204 | 0.204 | r |
| 95-63-6     | 1,2,4-Trimethylbenzene             | 0.941 |    | 0.204 | 0.204 | r |
| 76-14-2     | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U  | 0.143 | 0.143 | r |
| 75-01-4     | Vinyl Chloride(sim)                | 0.078 | U  | 0.078 | 0.078 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

TILE STORE IA-6

Client: CEG Lab: Phoenix Env. Labs

SDG No.: GCE81145 Lab Sample ID: CE81148

Canister: 480 Lab File ID: 1206\_10.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/05/19

Purge Volume 200 (cc) Date Analyzed: 12/06/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|------------|--------------------------------|-------|---|-------|-------|---|
| 74-83-9    | Bromomethane(sim)              | 0.258 | U | 0.258 | 0.258 | r |
| 75-69-4    | Trichlorofluoromethane(sim)    | 0.178 | U | 0.178 | 0.178 | r |
| 71-55-6    | 1,1,1-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 56-23-5    | Carbon Tetrachloride(sim)      | 0.077 |   | 0.032 | 0.032 | r |
| 75-35-4    | 1,1-Dichloroethene(sim)        | 0.051 | U | 0.051 | 0.051 | r |
| 76-13-1    | Trichlorotrifluoroethane(sim)  | 0.131 | U | 0.131 | 0.131 | r |
| 156-60-5   | Trans-1,2-Dichloroethene(sim)  | 0.252 | U | 0.252 | 0.252 | r |
| 75-34-3    | 1,1-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 156-59-2   | Cis-1,2-Dichloroethene(sim)    | 0.051 | U | 0.051 | 0.051 | r |
| 67-66-3    | Chloroform(sim)                | 0.205 | U | 0.205 | 0.205 | r |
| 107-06-2   | 1,2-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 78-87-5    | 1,2-dichloropropane(sim)       | 0.217 | U | 0.217 | 0.217 | r |
| 75-27-4    | Bromodichloromethane(sim)      | 0.149 | U | 0.149 | 0.149 | r |
| 123-91-1   | 1,4-Dioxane(sim)               | 0.278 | U | 0.278 | 0.278 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim)   | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5    | 1,1,2-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1   | Dibromochloromethane(sim)      | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4   | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2    | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6   | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 79-34-5    | 1,1,2,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 100-44-7   | Benzyl chloride(sim)           | 0.193 | U | 0.193 | 0.193 | r |
| 541-73-1   | 1,3-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 106-46-7   | 1,4-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 135-98-8   | sec-Butylbenzene(sim)          | 0.182 | U | 0.182 | 0.182 | r |
| 99-87-6    | 4-Isopropyltoluene(sim)        | 0.182 | U | 0.182 | 0.182 | r |
| 95-50-1    | 1,2-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 104-51-8   | n-Butylbenzene(sim)            | 0.182 | U | 0.182 | 0.182 | r |
| 120-82-1   | 1,2,4-Trichlorobenzene(sim)    | 0.135 | U | 0.135 | 0.135 | r |
| 87-68-3    | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_10.D  
 Acq On : 6 Dec 2019 8:34 pm  
 Operator : Keith  
 Client ID : TILE STORE IA-6  
 Lab ID : CE81148  
 ALS Vial : 106 Sample Multiplier: 1

Quant Time: Dec 09 09:03:13 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

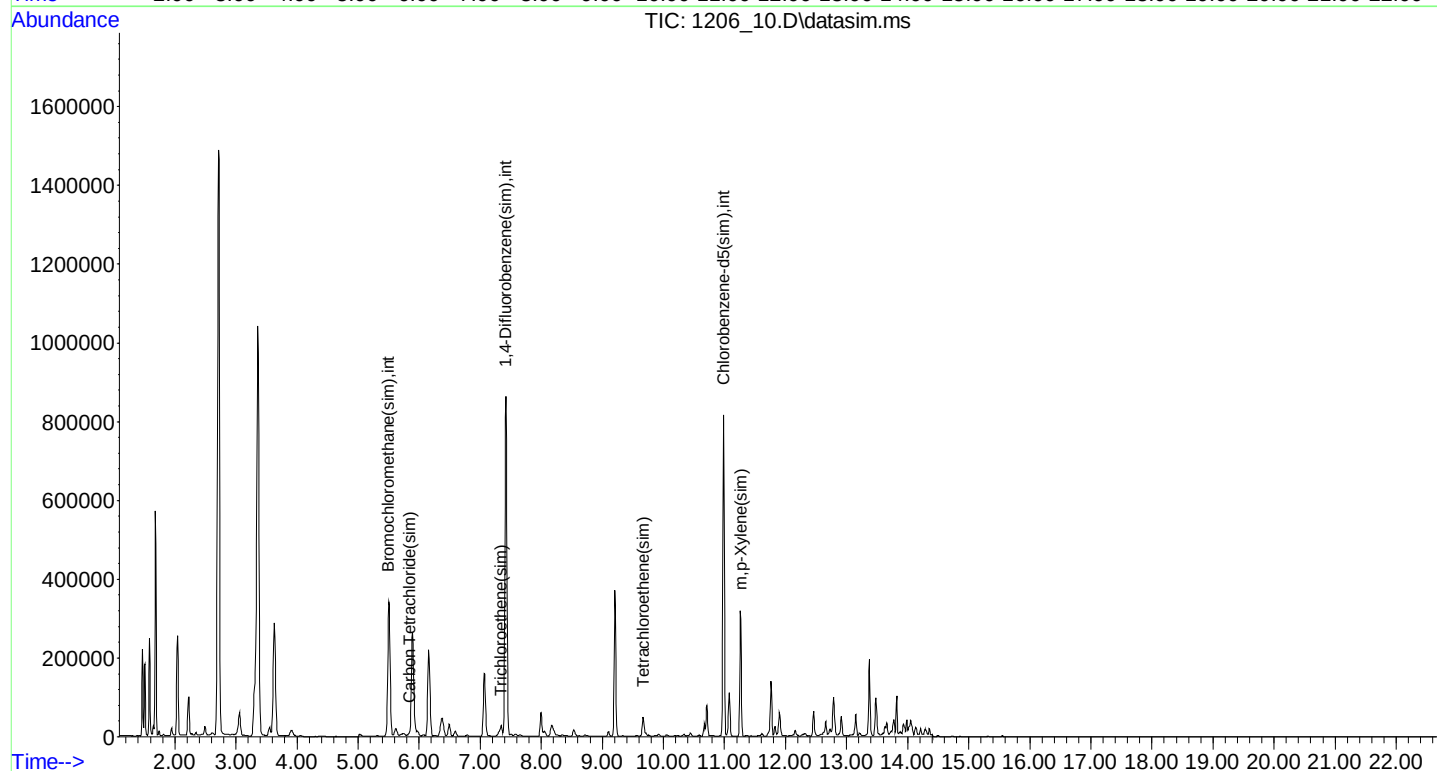
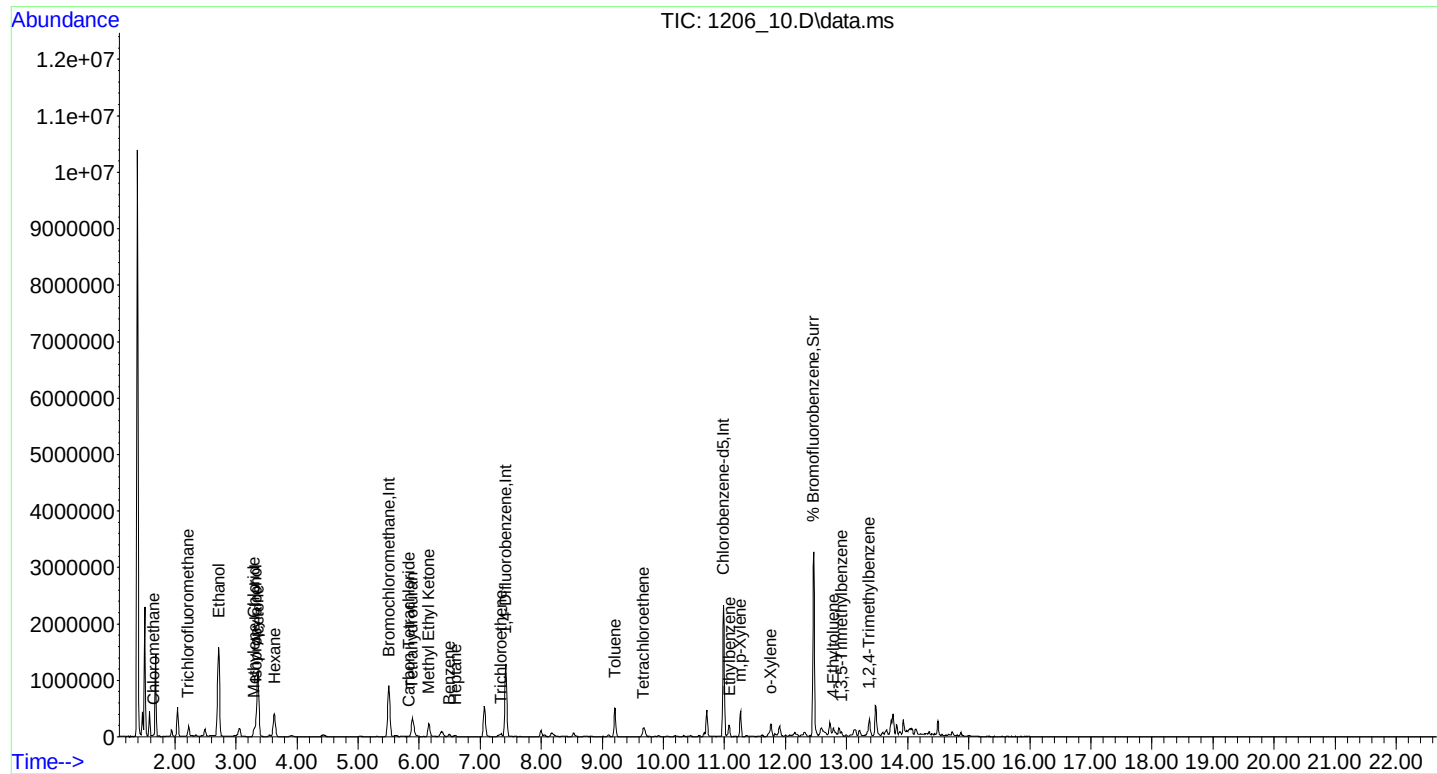
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.507  | 130   | 471373   | 10.000   | ng     | -0.03    |
| 36) 1,4-Difluorobenzene       | 7.418  | 114   | 1239863  | 10.000   | ng     | -0.02    |
| 53) Chlorobenzene-d5          | 10.984 | 82    | 698315   | 10.000   | ng     | -0.02    |
| 80) Bromochloromethane(sim)   | 5.502  | 130   | 483052   | 10.000   | ng     | #-0.03   |
| 94) 1,4-Difluorobenzene(sim)  | 7.421  | 114   | 1350334  | 10.000   | ng     | #-0.02   |
| 104) Chlorobenzene-d5(sim)    | 10.987 | 82    | 757257   | 10.000   | ng     | -0.02    |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 12.461 | 95    | 1033085  | 9.809    | ppbv   | -0.02    |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 98.10%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 4) Chloromethane              | 1.650  | 50    | 22457    | 0.599    | ppbv   | 89       |
| 10) Ethanol                   | 2.718  | 45    | 2160033  | 184.700  | ppbv#  | 91       |
| 12) Acetone                   | 3.361  | 43    | 1649338  | 21.682   | ppbv#  | 88       |
| 13) Trichlorofluoromethane    | 2.218  | 101   | 30849    | 0.202    | ppbv#  | 91       |
| 14) Isopropylalcohol          | 3.334  | 45    | 332490   | 5.098    | ppbv#  | 1        |
| 17) Methylene Chloride        | 3.299  | 49    | 76427    | 1.566    | ppbv   | 95       |
| 25) Methyl Ethyl Ketone       | 6.155  | 43    | 380289   | 6.319    | ppbv#  | 57       |
| 27) Hexane                    | 3.628  | 57    | 242890   | 4.079    | ppbv   | 87       |
| 30) Tetrahydrofuran           | 5.889  | 42    | 221769   | 7.761    | ppbv#  | 24       |
| 33) Benzene                   | 6.494  | 78    | 46618    | 0.432    | ppbv#  | 81       |
| 34) Carbon Tetrachloride      | 5.831  | 117   | 9401     | 0.075    | ppbv   | 93       |
| 39) Trichloroethene           | 7.343  | 130   | 16934    | 0.267    | ppbv   | 93       |
| 43) Heptane                   | 6.597  | 43    | 12319    | 0.246    | ppbv#  | 17       |
| 48) Toluene                   | 9.204  | 91    | 391848   | 3.008    | ppbv   | 94       |
| 52) Tetrachloroethene         | 9.666  | 166   | 26178    | 0.294    | ppbv#  | 85       |
| 56) Ethylbenzene              | 11.080 | 91    | 96503    | 0.614    | ppbv   | 93       |
| 57) m,p-Xylene                | 11.265 | 91    | 262321   | 2.266    | ppbv   | 96       |
| 61) o-Xylene                  | 11.759 | 91    | 115858   | 0.850    | ppbv#  | 91       |
| 66) 4-Ethyltoluene            | 12.785 | 105   | 103140   | 0.615    | ppbv   | 98       |
| 67) 1,3,5-Trimethylbenzene    | 12.915 | 105   | 38602    | 0.270    | ppbv   | 93       |
| 68) 1,2,4-Trimethylbenzene    | 13.369 | 105   | 129858   | 0.941    | ppbv#  | 95       |
| 86) Carbon Tetrachloride(sim) | 5.841  | 117   | 10052    | 0.077    | ppbv   | 100      |
| 97) Trichloroethene(sim)      | 7.343  | 130   | 16867    | 0.285    | ppbv#  | 85       |
| 103) Tetrachloroethene(sim)   | 9.666  | 166   | 25627    | 0.317    | ppbv#  | 68       |
| 107) m,p-Xylene(sim)          | 11.265 | 91    | 262321   | 2.137    | ppbv   | 96       |

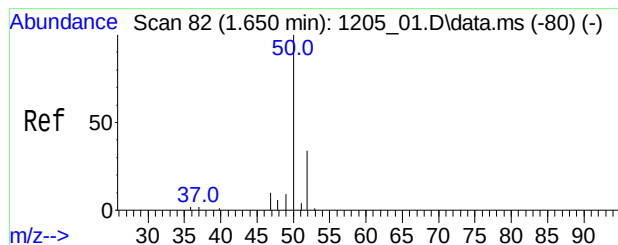
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# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_10.D  
 Acq On : 6 Dec 2019 8:34 pm  
 Operator : Keith  
 Client ID : TILE STORE IA-6  
 Lab ID : CE81148  
 ALS Vial : 106 Sample Multiplier: 1

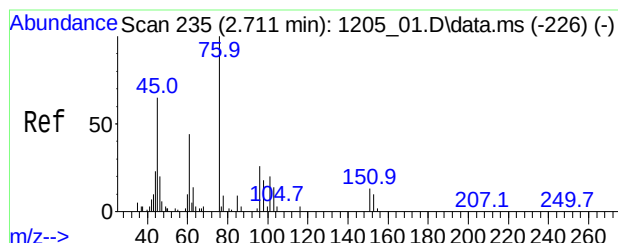
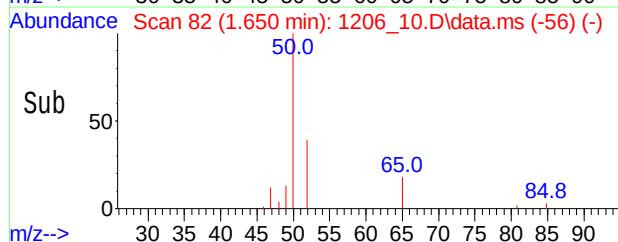
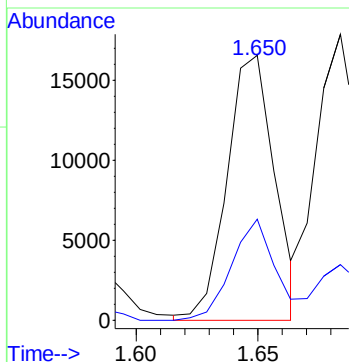
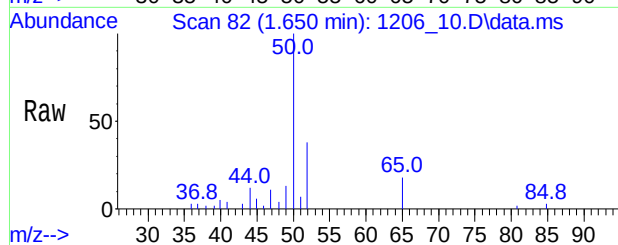
Quant Time: Dec 09 09:03:13 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration





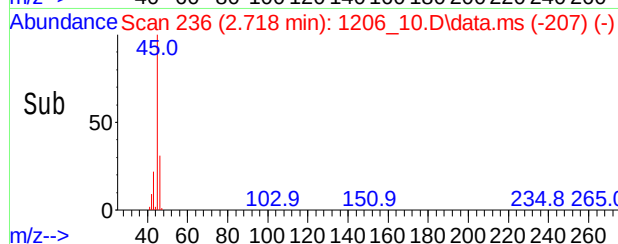
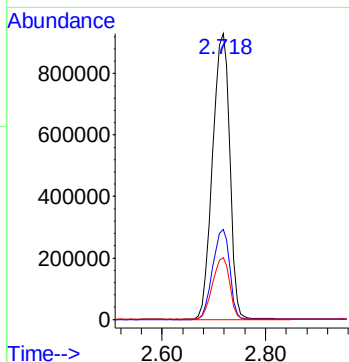
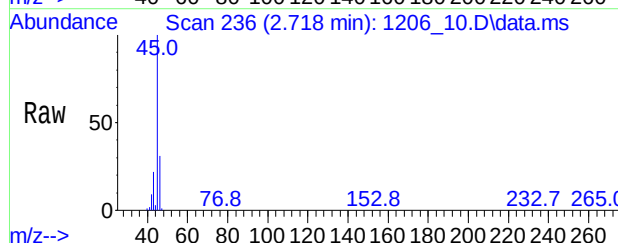
#4  
Chloromethane  
Conc: 8\$ 0.599 ppbv  
RT: 1.650 min Scan# 82  
Delta R.T. -0.020 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

Tgt Ion: 50 Resp: 22457  
Ion Ratio Lower Upper  
50 100  
52 34.3 8.7 48.7

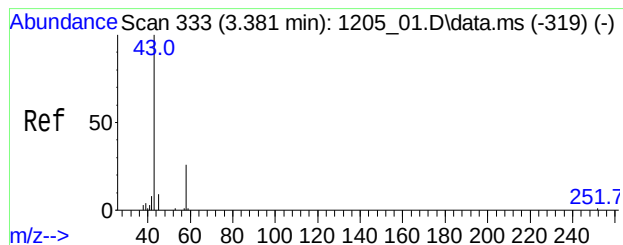


#10  
Ethanol  
Conc: 8\$ 184.700 ppbv  
RT: 2.718 min Scan# 236  
Delta R.T. -0.000 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

Tgt Ion: 45 Resp: 2160033  
Ion Ratio Lower Upper  
45 100  
46 31.3 24.5 36.7  
43 21.5 7.0 10.4#

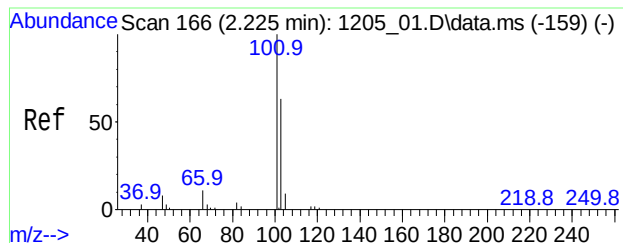
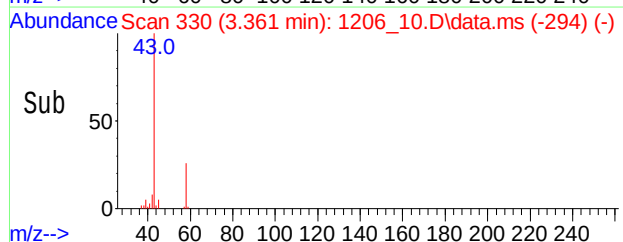
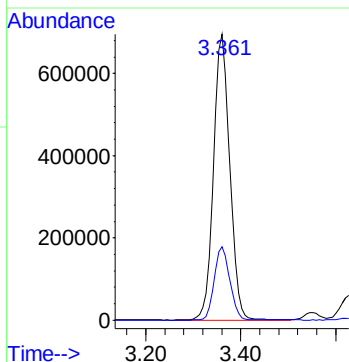
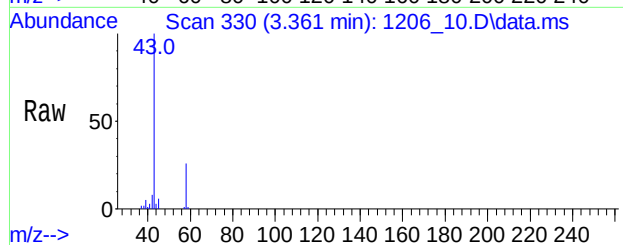






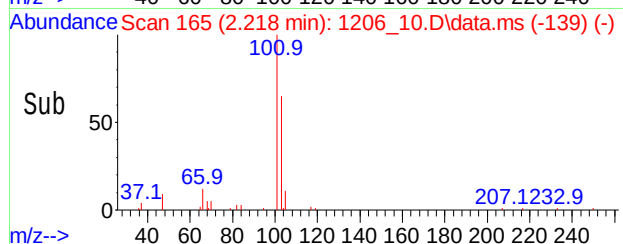
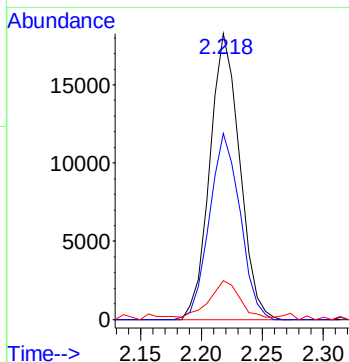
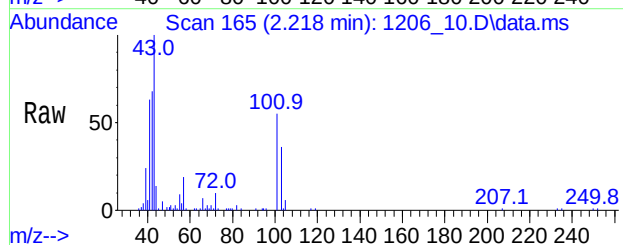
#12  
Acetone  
Conc: 8\$ 21.682 ppbv  
RT: 3.361 min Scan# 330  
Delta R.T. -0.054 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

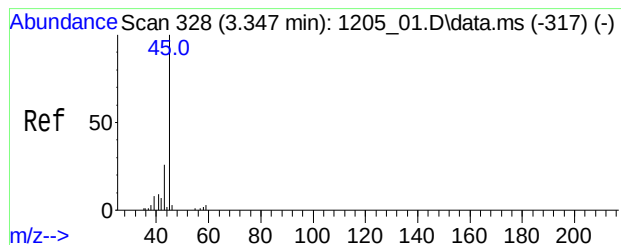
Tgt Ion: 43 Resp: 1649338  
Ion Ratio Lower Upper  
43 100  
58 24.6 15.4 23.0#



#13  
Trichlorofluoromethane  
Conc: 8\$ 0.202 ppbv  
RT: 2.218 min Scan# 165  
Delta R.T. -0.021 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

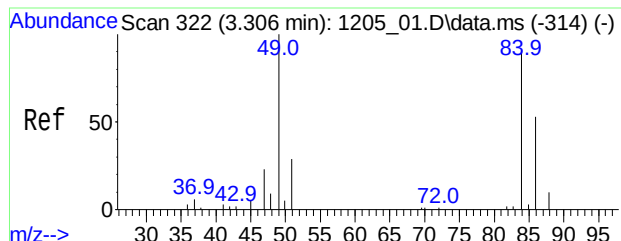
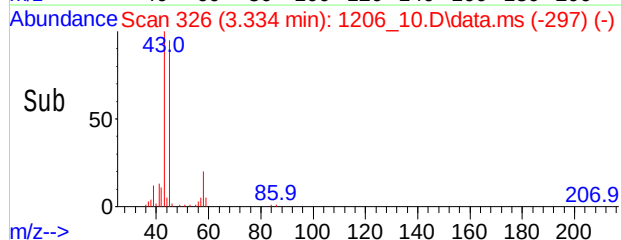
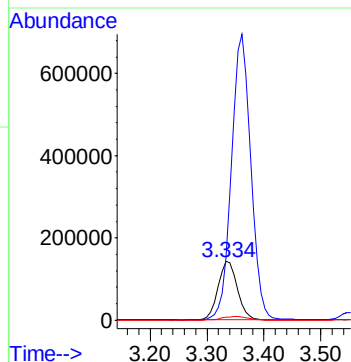
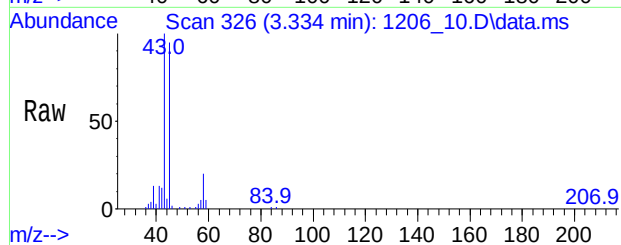
Tgt Ion: 101 Resp: 30849  
Ion Ratio Lower Upper  
101 100  
103 66.8 55.4 83.2  
66 14.9 22.0 33.0#





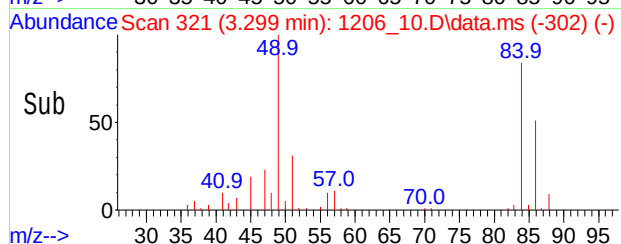
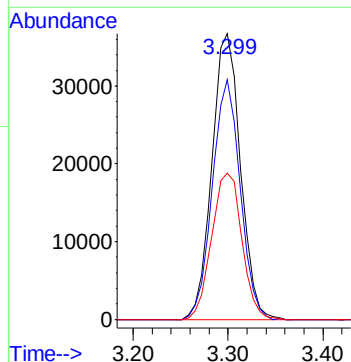
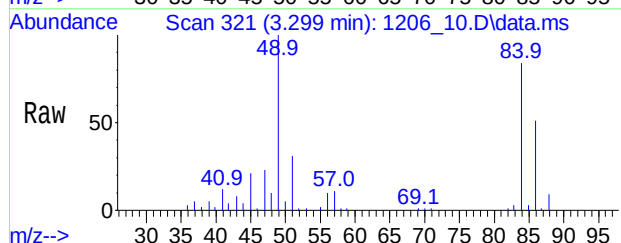
#14  
Isopropylalcohol  
Conc: 8\$ 5.098 ppbv  
RT: 3.334 min Scan# 326  
Delta R.T. 0.001 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

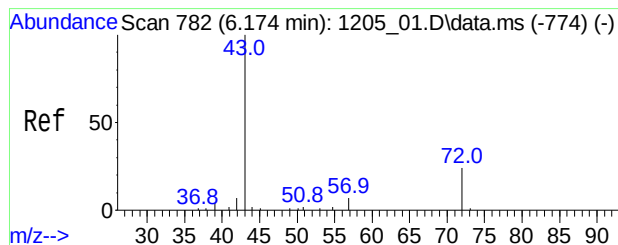
Tgt Ion: 45 Resp: 332490  
Ion Ratio Lower Upper  
45 100  
43 495.8 24.0 36.0#  
59 7.9 0.0 0.0#



#17  
Methylene Chloride  
Conc: 8\$ 1.566 ppbv  
RT: 3.299 min Scan# 321  
Delta R.T. -0.021 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

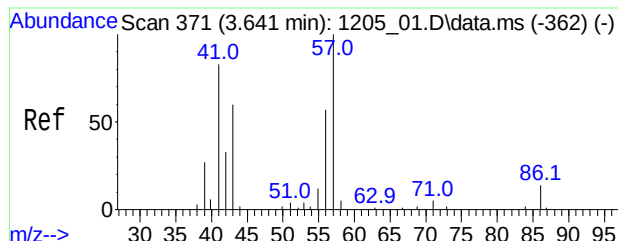
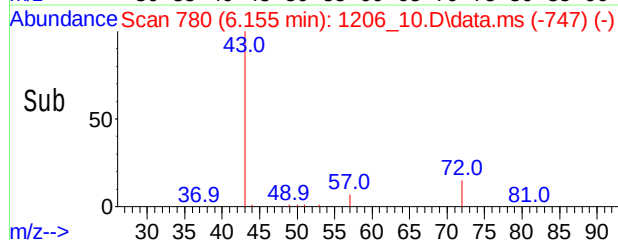
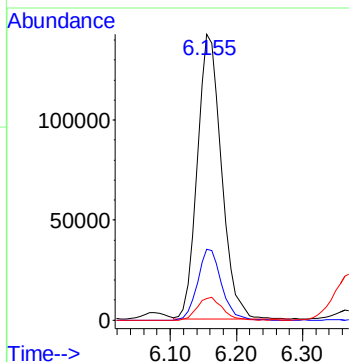
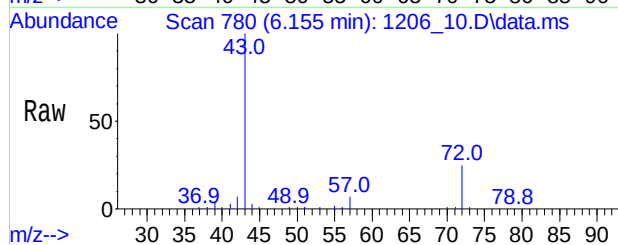
Tgt Ion: 49 Resp: 76427  
Ion Ratio Lower Upper  
49 100  
84 81.9 61.2 91.8  
86 54.4 45.3 67.9





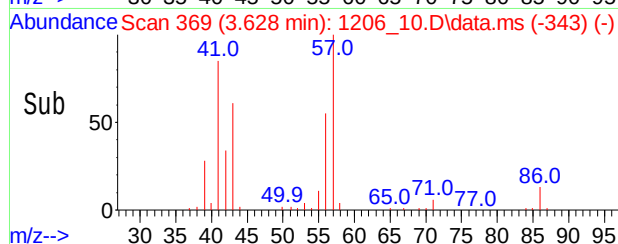
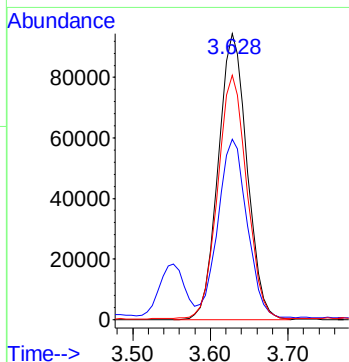
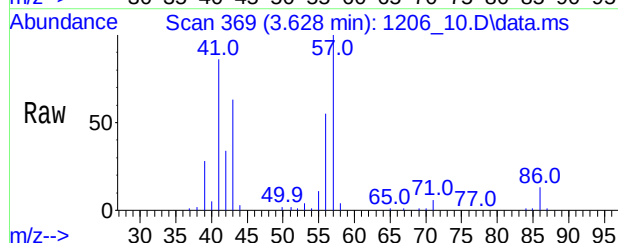
#25  
Methyl Ethyl Ketone  
Conc: 8\$ 6.319 ppbv  
RT: 6.155 min Scan# 780  
Delta R.T. -0.062 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

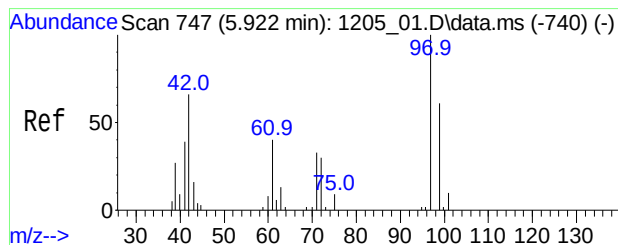
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 43      | 100   | 380289 |       |       |
| 72      | 24.7  | 7.2    | 10.8# |       |
| 57      | 8.6   | 0.0    | 0.0#  |       |



#27  
Hexane  
Conc: 8\$ 4.079 ppbv  
RT: 3.628 min Scan# 369  
Delta R.T. -0.020 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

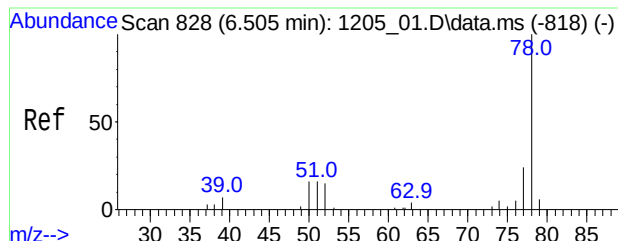
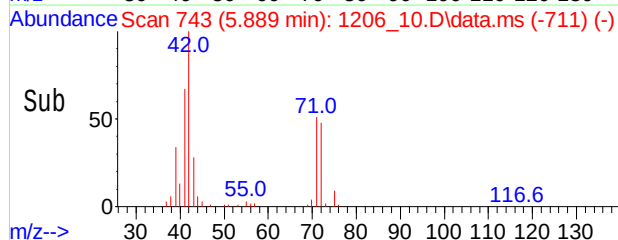
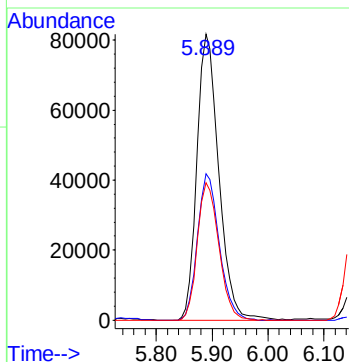
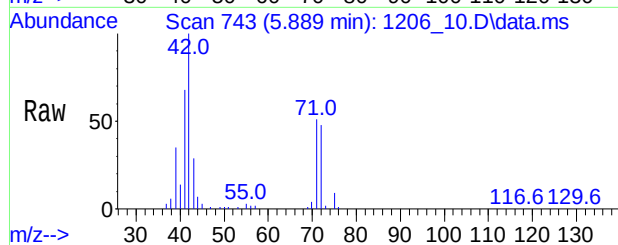
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 57      | 100   | 242890 |       |       |
| 43      | 63.0  | 50.9   | 76.3  |       |
| 41      | 86.7  | 85.5   | 128.3 |       |





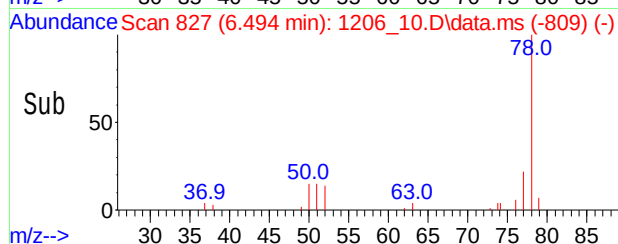
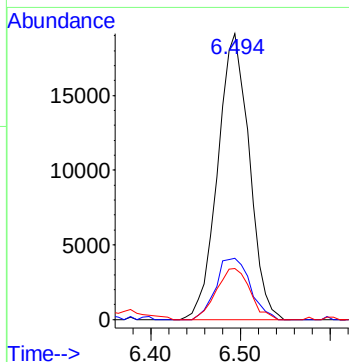
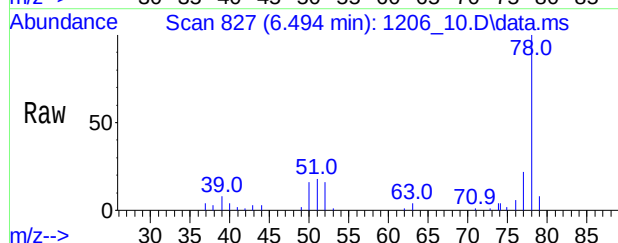
#30  
Tetrahydrofuran  
Conc: 8\$ 7.761 ppbv  
RT: 5.889 min Scan# 743  
Delta R.T. -0.069 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

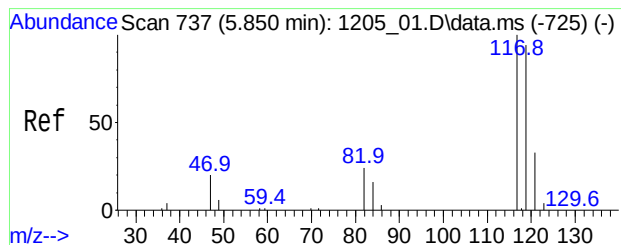
Tgt Ion: 42 Resp: 221769  
Ion Ratio Lower Upper  
42 100  
71 50.9 14.1 21.1#  
72 47.1 0.0 0.0#



#33  
Benzene  
Conc: 8\$ 0.432 ppbv  
RT: 6.494 min Scan# 827  
Delta R.T. -0.024 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

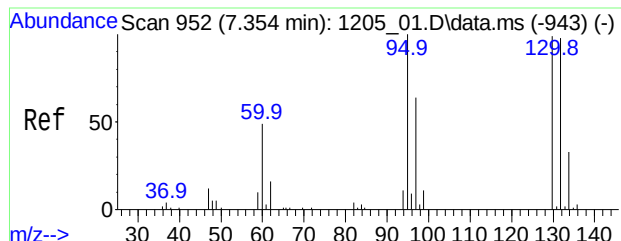
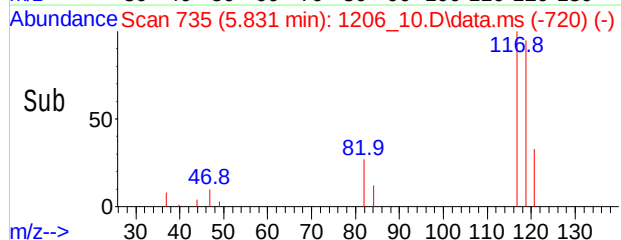
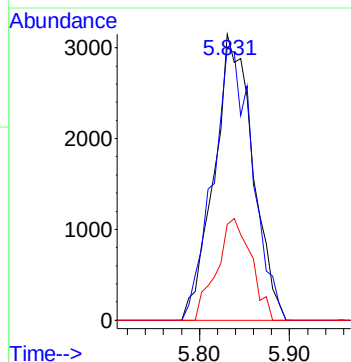
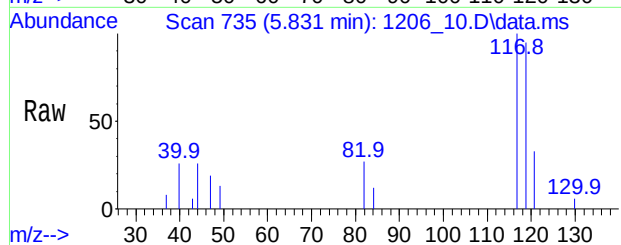
Tgt Ion: 78 Resp: 46618  
Ion Ratio Lower Upper  
78 100  
77 23.4 8.7 13.1#  
51 19.0 20.6 30.8#





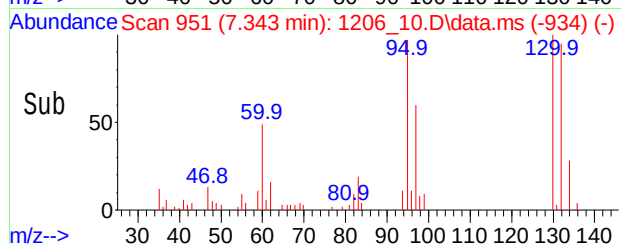
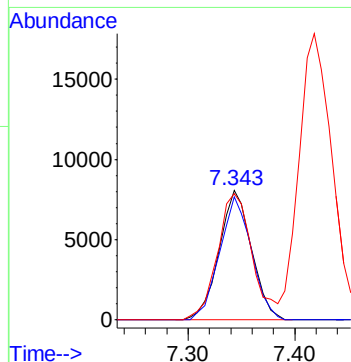
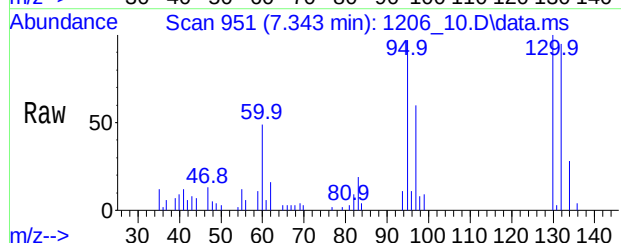
#34  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 5.831 min Scan# 735  
Delta R.T. -0.040 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

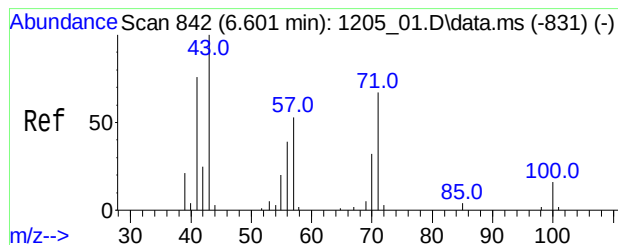
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 9401 |       |       |
| 119     | 97.8  | 75.7 | 115.7 |       |
| 121     | 31.5  | 0.0  | 34.9  |       |



#39  
Trichloroethene  
Conc: 8\$ 0.267 ppbv  
RT: 7.343 min Scan# 951  
Delta R.T. -0.031 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

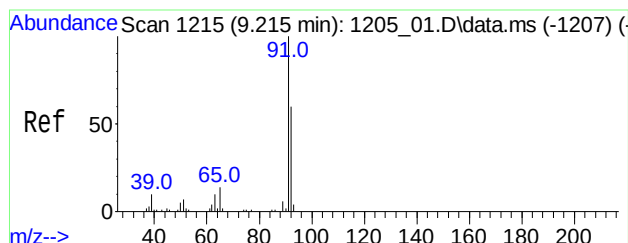
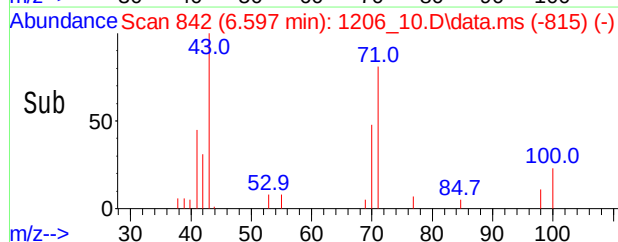
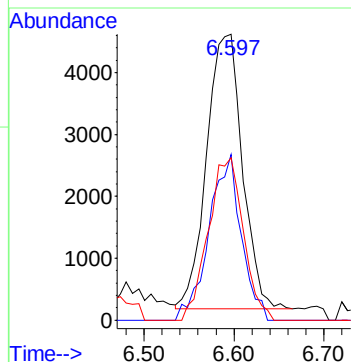
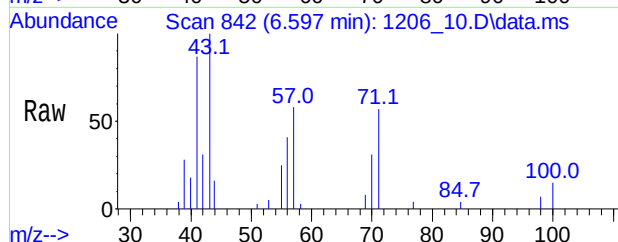
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 130     | 100   | 16934 |       |       |
| 132     | 93.8  | 69.8  | 104.8 |       |
| 95      | 104.7 | 0.0   | 0.0#  |       |





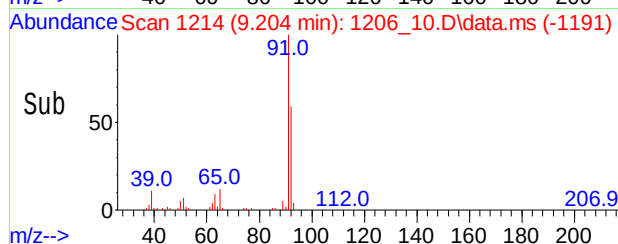
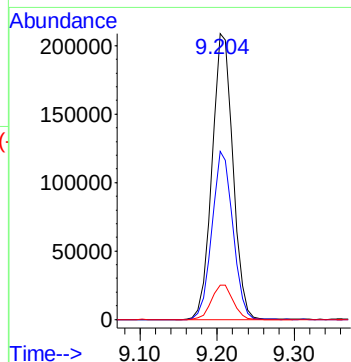
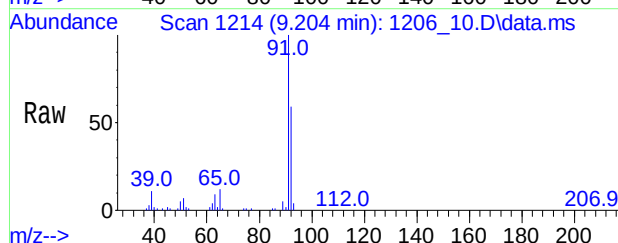
#43  
Heptane  
Conc: 8\$ 0.246 ppbv  
RT: 6.597 min Scan# 842  
Delta R.T. -0.017 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

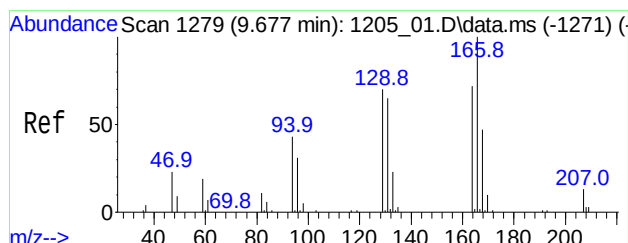
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 43      | 100   | 12319 |       |       |
| 57      | 53.8  | 9.3   | 13.9# |       |
| 71      | 57.6  | 18.9  | 28.3# |       |



#48  
Toluene  
Conc: 8\$ 3.008 ppbv  
RT: 9.204 min Scan# 1214  
Delta R.T. -0.032 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

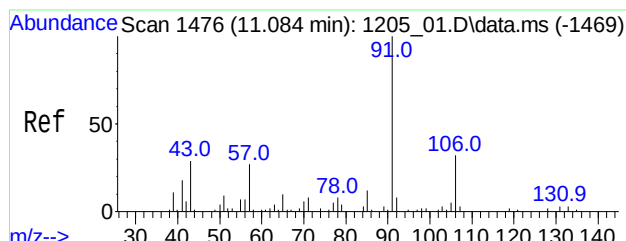
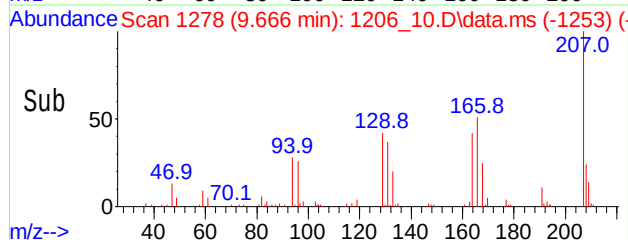
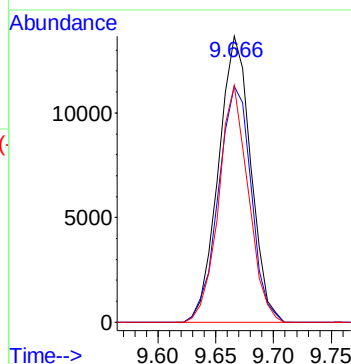
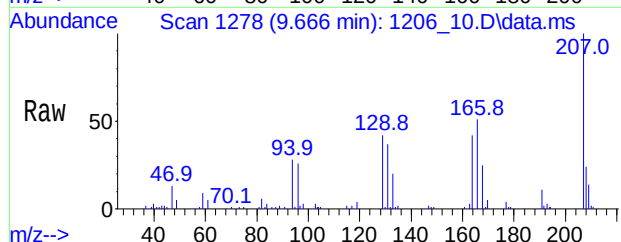
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 391848 |       |       |
| 92      | 58.8  | 50.6   | 75.8  |       |
| 65      | 12.5  | 0.0    | 0.0#  |       |





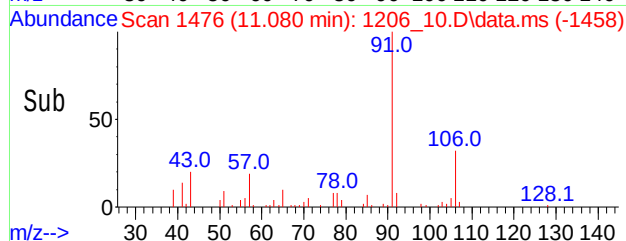
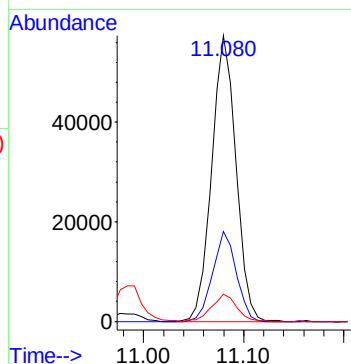
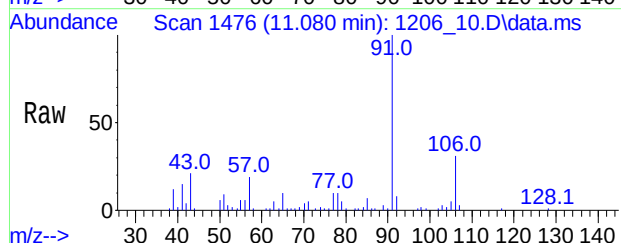
#52  
Tetrachloroethene  
Conc: 8\$ 0.294 ppbv  
RT: 9.666 min Scan# 1278  
Delta R.T. -0.018 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

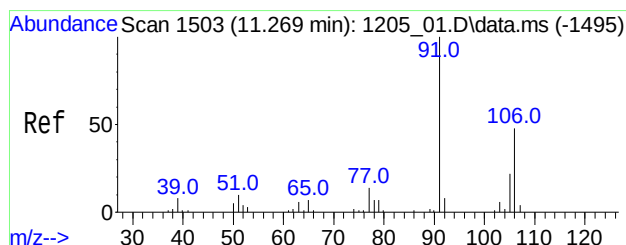
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 26178 |       |       |
| 164     | 84.0  | 53.6  | 80.4  |       |
| 129     | 75.8  | 54.5  | 81.7  |       |



#56  
Ethylbenzene  
Conc: 8\$ 0.614 ppbv  
RT: 11.080 min Scan# 1476  
Delta R.T. -0.024 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

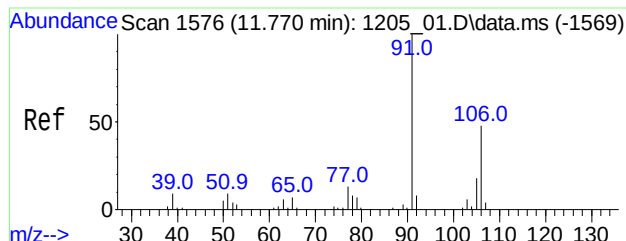
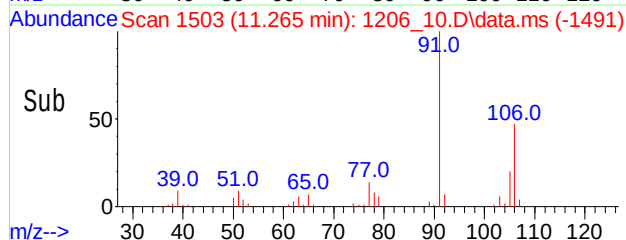
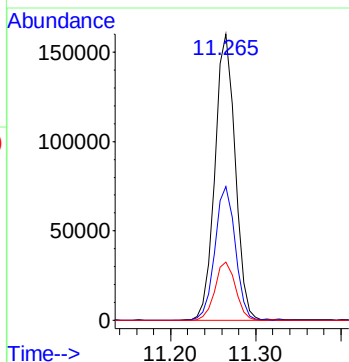
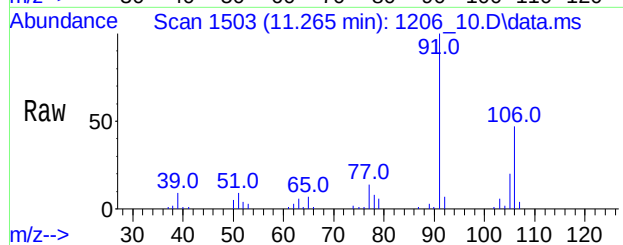
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 96503 |       |       |
| 106     | 30.6  | 6.9   | 46.9  |       |
| 77      | 9.9   | 0.0   | 20.0  |       |





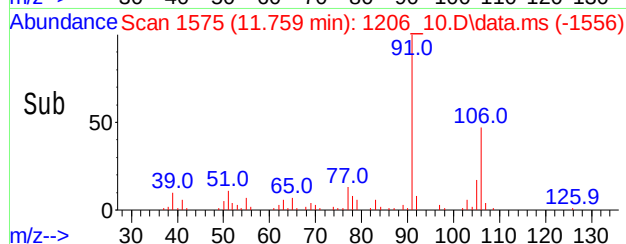
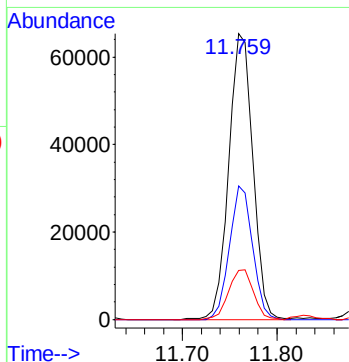
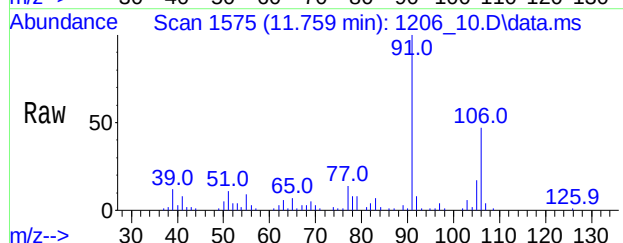
#57  
m,p-Xylene  
Conc: 8\$ 2.266 ppbv  
RT: 11.265 min Scan# 1503  
Delta R.T. -0.018 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 262321 |       |       |
| 106     | 47.0  | 34.9   | 52.3  |       |
| 105     | 20.5  | 16.3   | 24.5  |       |

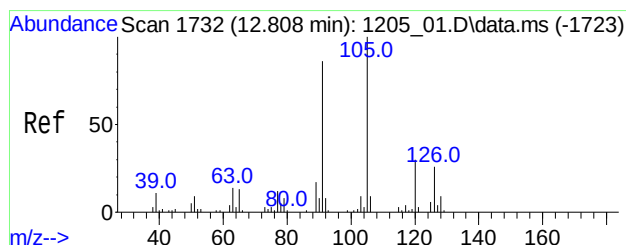


#61  
o-Xylene  
Conc: 8\$ 0.850 ppbv  
RT: 11.759 min Scan# 1575  
Delta R.T. -0.018 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 115858 |       |       |
| 106     | 44.7  | 32.4   | 48.6  |       |
| 105     | 17.9  | 9.0    | 13.4  |       |

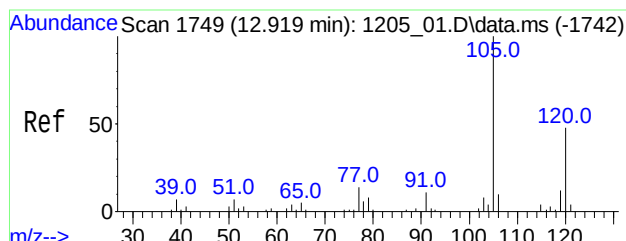
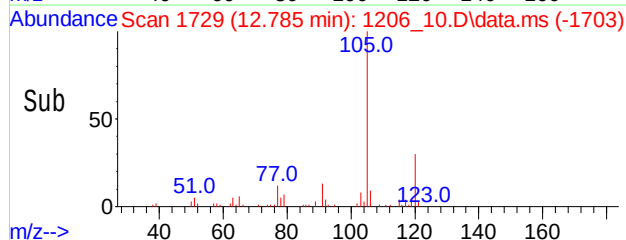
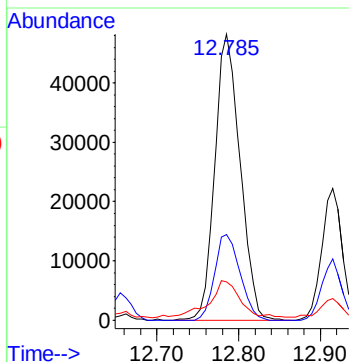
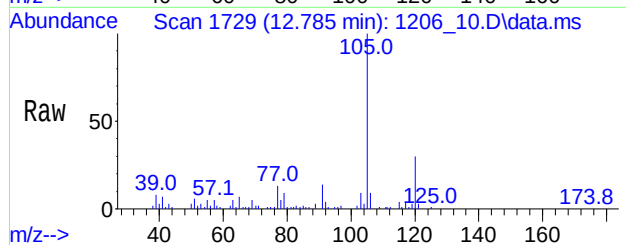






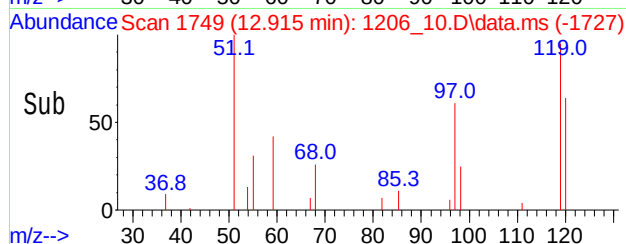
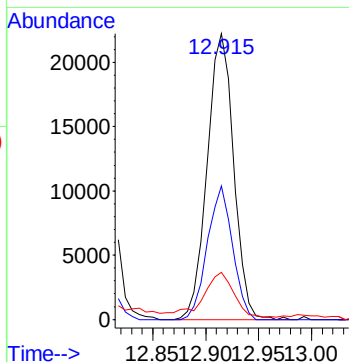
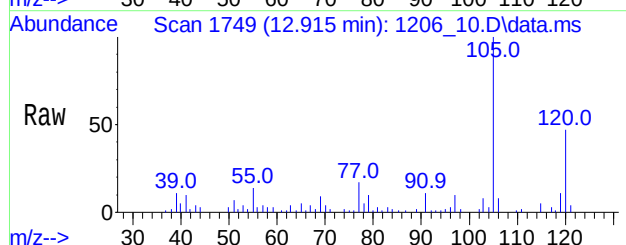
#66  
4-Ethyltoluene  
Conc: 8\$ 0.615 ppbv  
RT: 12.785 min Scan# 1729  
Delta R.T. -0.030 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

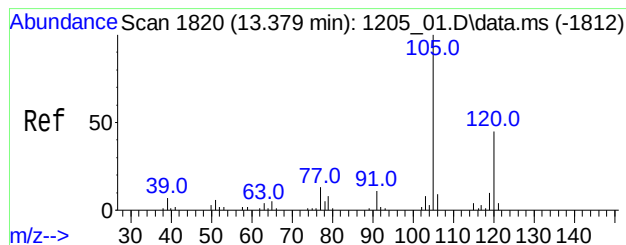
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 103140 |       |       |
| 120     | 30.0  | 23.0   | 34.6  |       |
| 77      | 17.0  | 14.0   | 21.0  |       |



#67  
1,3,5-Trimethylbenzene  
Conc: 8\$ 0.270 ppbv  
RT: 12.915 min Scan# 1749  
Delta R.T. -0.010 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

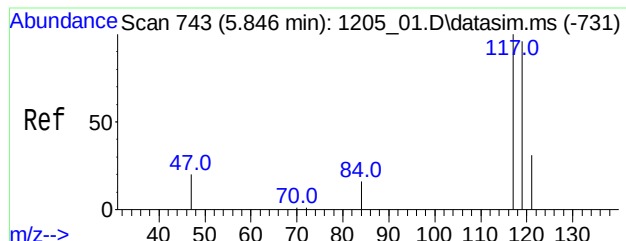
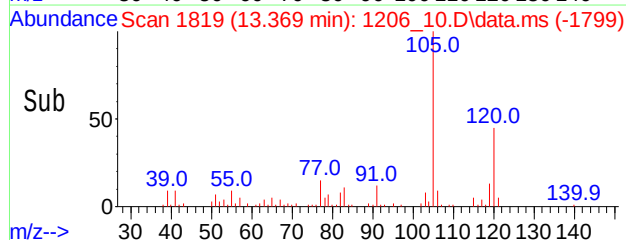
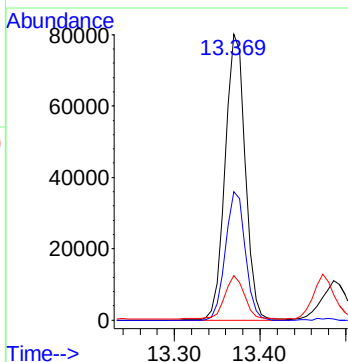
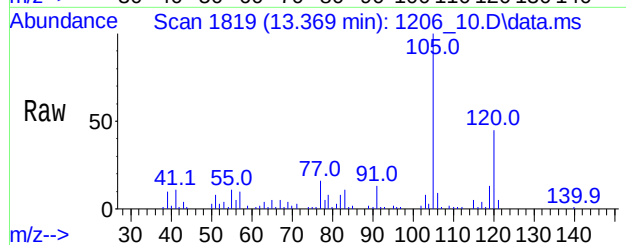
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 38602 |       |       |
| 120     | 44.3  | 31.0  | 46.4  |       |
| 77      | 17.2  | 15.0  | 22.4  |       |





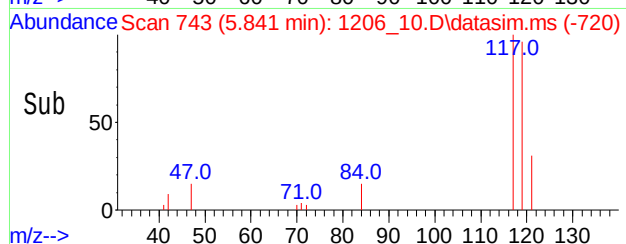
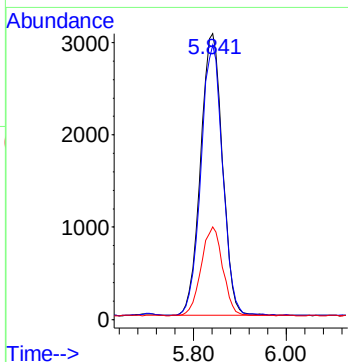
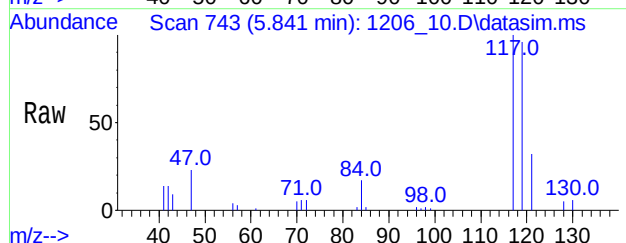
#68  
1,2,4-Trimethylbenzene  
Conc: 8\$ 0.941 ppbv  
RT: 13.369 min Scan# 1819  
Delta R.T. -0.023 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

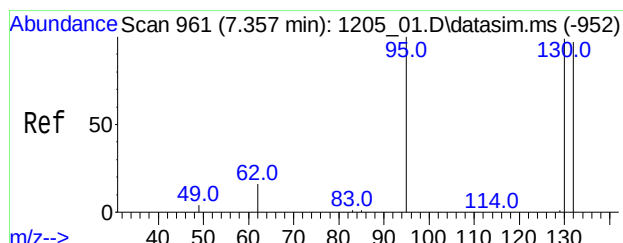
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 129858 |       |       |
| 120     | 44.2  | 34.3   | 51.5  |       |
| 77      | 14.9  | 4.4    | 6.6   |       |



#86  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.077 ppbv  
RT: 5.841 min Scan# 743  
Delta R.T. -0.033 min  
Lab File: 1206\_10.D  
Acq: 6 Dec 2019 8:34 pm

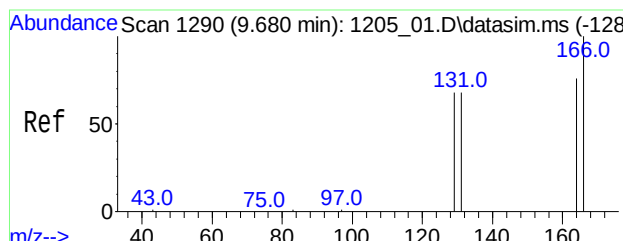
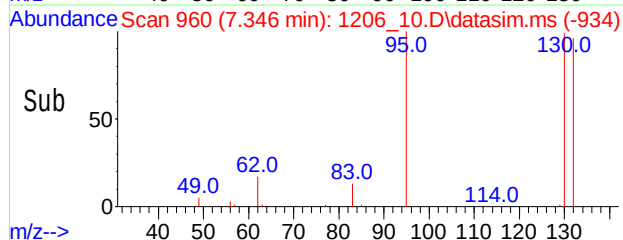
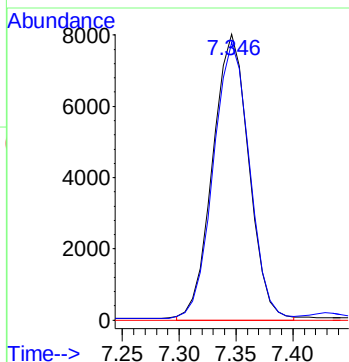
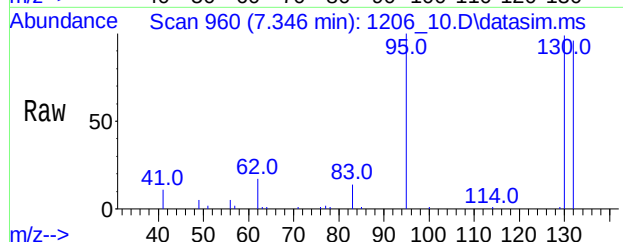
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 117     | 100   | 10052 |       |       |
| 119     | 95.0  | 75.9  | 113.9 |       |
| 121     | 31.0  | 24.9  | 37.3  |       |





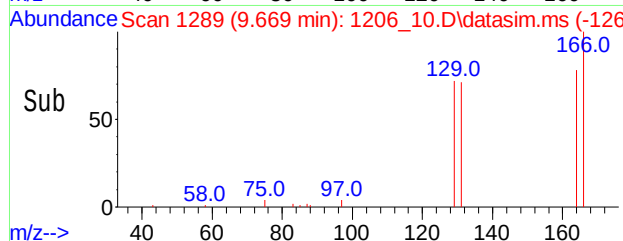
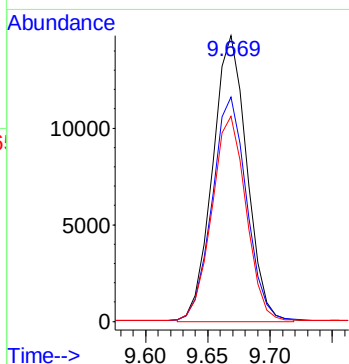
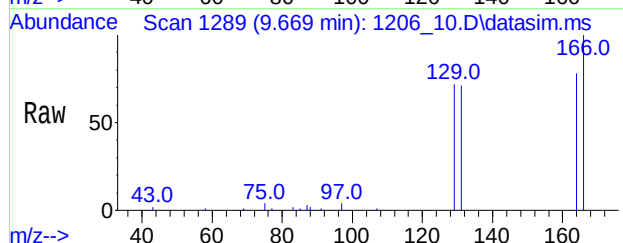
#97  
 Trichloroethene(sim)  
 Conc: 8\$ 0.285 ppbv  
 RT: 7.343 min Scan# 960  
 Delta R.T. -0.024 min  
 Lab File: 1206\_10.D  
 Acq: 6 Dec 2019 8:34 pm

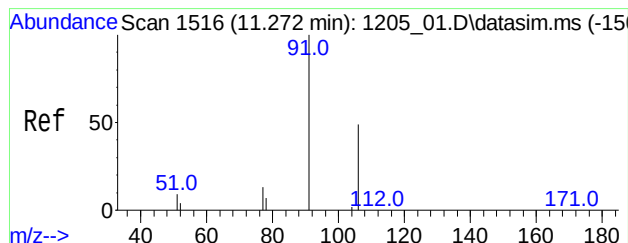
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 130     | 100   | 16867 |       |       |
| 132     | 93.6  | 80.2  | 120.2 |       |
| 97      | 67.8  | 36.6  | 55.0# |       |



#103  
 Tetrachloroethene(sim)  
 Conc: 8\$ 0.317 ppbv  
 RT: 9.666 min Scan# 1289  
 Delta R.T. -0.032 min  
 Lab File: 1206\_10.D  
 Acq: 6 Dec 2019 8:34 pm

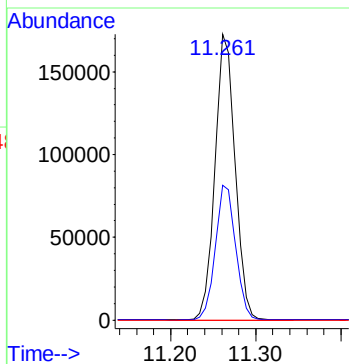
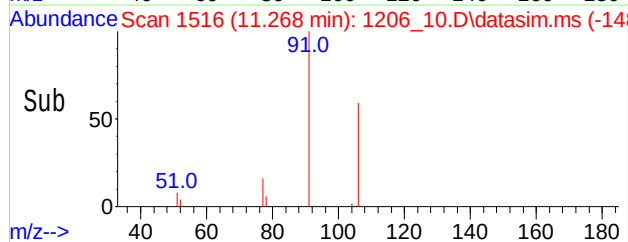
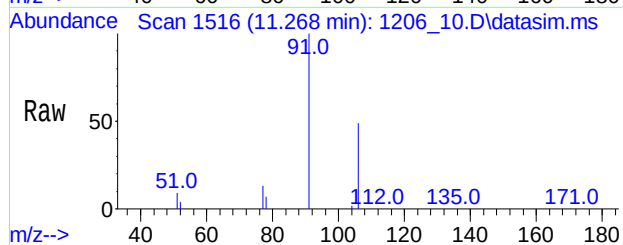
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 25627 |       |       |
| 164     | 85.1  | 40.5  | 80.5# |       |
| 129     | 77.4  | 0.0   | 20.0# |       |





#107  
 m,p-Xylene(sim)  
 Conc: 8\$ 2.137 ppbv  
 RT: 11.265 min Scan# 1516  
 Delta R.T. -0.018 min  
 Lab File: 1206\_10.D  
 Acq: 6 Dec 2019 8:34 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 262321 |       |       |
| 106     | 47.0  | 39.2   | 48.0  |       |
| 105     | 20.5  | 16.3   | 24.5  |       |



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

HAIR SALON IA-4 DUP

Client: CEG Lab: Phoenix Env. Labs

SDG No.: GCE81145 Lab Sample ID: CE81149

Canister: 492 Lab File ID: 1206\_11.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/05/19

Purge Volume 200 (cc) Date Analyzed: 12/06/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                           | CONC. | Q  | MDL   | PQL   | R |
|-------------|------------------------------------|-------|----|-------|-------|---|
| 115-07-1    | Propylene                          | 0.581 | U  | 0.581 | 0.581 | r |
| 75-71-8     | Dichlorodifluoromethane            | 0.202 | U  | 0.202 | 0.202 | r |
| 74-87-3     | Chloromethane                      | 0.485 | U  | 0.485 | 0.485 | r |
| 106-99-0    | 1,3-Butadiene                      | 0.452 | U  | 0.452 | 0.452 | r |
| 75-00-3     | Chloroethane                       | 0.379 | U  | 0.379 | 0.379 | r |
| 64-17-5     | Ethanol                            | 632   | ES | 0.531 | 0.531 | r |
| 67-64-1     | Acetone                            | 14.0  | S  | 0.421 | 0.421 | r |
| 67-63-0     | Isopropylalcohol                   | 10.9  | S  | 0.407 | 0.407 | r |
| 107-13-1    | Acrylonitrile                      | 0.461 | U  | 0.461 | 0.461 | r |
| 75-09-2     | Methylene Chloride                 | 0.864 | U  | 0.864 | 0.864 | r |
| 75-15-0     | Carbon Disulfide                   | 0.321 | U  | 0.321 | 0.321 | r |
| 1634-04-4   | Methyl tert-butyl ether(MTBE)      | 0.278 | U  | 0.278 | 0.278 | r |
| 78-93-3     | Methyl Ethyl Ketone                | 0.357 |    | 0.339 | 0.339 | r |
| 110-54-3    | Hexane                             | 1.18  | S  | 0.284 | 0.284 | r |
| 141-78-6    | Ethyl acetate                      | 0.400 |    | 0.278 | 0.278 | r |
| 109-99-9    | Tetrahydrofuran                    | 0.339 | U  | 0.339 | 0.339 | r |
| 71-43-2     | Benzene                            | 0.886 |    | 0.313 | 0.313 | r |
| 110-82-7    | Cyclohexane                        | 0.437 |    | 0.291 | 0.291 | r |
| 142-82-5    | Heptane                            | 0.551 |    | 0.244 | 0.244 | r |
| 108-10-1    | 4-Methyl-2-pentanone(MIBK)         | 0.244 | U  | 0.244 | 0.244 | r |
| 10061-02-6  | trans-1,3-Dichloropropene          | 0.221 | U  | 0.221 | 0.221 | r |
| 108-88-3    | Toluene                            | 2.85  |    | 0.266 | 0.266 | r |
| 591-78-6    | 2-Hexanone(MBK)                    | 0.244 | U  | 0.244 | 0.244 | r |
| 127-18-4    | Tetrachloroethene                  | 0.252 |    | 0.037 | 0.037 | r |
| 108-90-7    | Chlorobenzene                      | 0.217 | U  | 0.217 | 0.217 | r |
| 100-41-4    | Ethylbenzene                       | 0.252 |    | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene                         | 0.945 |    | 0.230 | 0.230 | r |
| 100-42-5    | Styrene                            | 0.235 | U  | 0.235 | 0.235 | r |
| 95-47-6     | o-Xylene                           | 0.255 |    | 0.230 | 0.230 | r |
| 98-82-8     | Isopropylbenzene                   | 0.204 | U  | 0.204 | 0.204 | r |
| 622-96-8    | 4-Ethyltoluene                     | 0.233 |    | 0.204 | 0.204 | r |
| 108-67-8    | 1,3,5-Trimethylbenzene             | 0.204 | U  | 0.204 | 0.204 | r |
| 95-63-6     | 1,2,4-Trimethylbenzene             | 0.242 |    | 0.204 | 0.204 | r |
| 76-14-2     | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U  | 0.143 | 0.143 | r |
| 75-01-4     | Vinyl Chloride(sim)                | 0.078 | U  | 0.078 | 0.078 | r |
| 74-83-9     | Bromomethane(sim)                  | 0.258 | U  | 0.258 | 0.258 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

HAIR SALON IA-4 DUP

Client: CEG Lab: Phoenix Env. Labs

SDG No.: GCE81145 Lab Sample ID: CE81149

Canister: 492 Lab File ID: 1206\_11.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/05/19

Purge Volume 200 (cc) Date Analyzed: 12/06/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|------------|--------------------------------|-------|---|-------|-------|---|
| 75-69-4    | Trichlorofluoromethane(sim)    | 0.178 | U | 0.178 | 0.178 | r |
| 71-55-6    | 1,1,1-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 56-23-5    | Carbon Tetrachloride(sim)      | 0.082 |   | 0.032 | 0.032 | r |
| 75-35-4    | 1,1-Dichloroethene(sim)        | 0.051 | U | 0.051 | 0.051 | r |
| 76-13-1    | Trichlorotrifluoroethane(sim)  | 0.131 | U | 0.131 | 0.131 | r |
| 156-60-5   | Trans-1,2-Dichloroethene(sim)  | 0.252 | U | 0.252 | 0.252 | r |
| 75-34-3    | 1,1-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 156-59-2   | Cis-1,2-Dichloroethene(sim)    | 0.051 | U | 0.051 | 0.051 | r |
| 67-66-3    | Chloroform(sim)                | 0.205 | U | 0.205 | 0.205 | r |
| 107-06-2   | 1,2-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 78-87-5    | 1,2-dichloropropane(sim)       | 0.217 | U | 0.217 | 0.217 | r |
| 75-27-4    | Bromodichloromethane(sim)      | 0.149 | U | 0.149 | 0.149 | r |
| 79-01-6    | Trichloroethene(sim)           | 0.037 | U | 0.037 | 0.037 | r |
| 123-91-1   | 1,4-Dioxane(sim)               | 0.278 | U | 0.278 | 0.278 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim)   | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5    | 1,1,2-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1   | Dibromochloromethane(sim)      | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4   | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2    | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6   | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 79-34-5    | 1,1,2,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 100-44-7   | Benzyl chloride(sim)           | 0.193 | U | 0.193 | 0.193 | r |
| 541-73-1   | 1,3-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 106-46-7   | 1,4-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 135-98-8   | sec-Butylbenzene(sim)          | 0.182 | U | 0.182 | 0.182 | r |
| 99-87-6    | 4-Isopropyltoluene(sim)        | 0.182 | U | 0.182 | 0.182 | r |
| 95-50-1    | 1,2-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 104-51-8   | n-Butylbenzene(sim)            | 0.182 | U | 0.182 | 0.182 | r |
| 120-82-1   | 1,2,4-Trichlorobenzene(sim)    | 0.135 | U | 0.135 | 0.135 | r |
| 87-68-3    | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_11.D  
 Acq On : 6 Dec 2019 9:16 pm  
 Operator : Keith  
 Client ID : HAIR SALON IA-4 DUP  
 Lab ID : CE81149  
 ALS Vial : 107 Sample Multiplier: 1

Quant Time: Dec 09 09:03:38 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

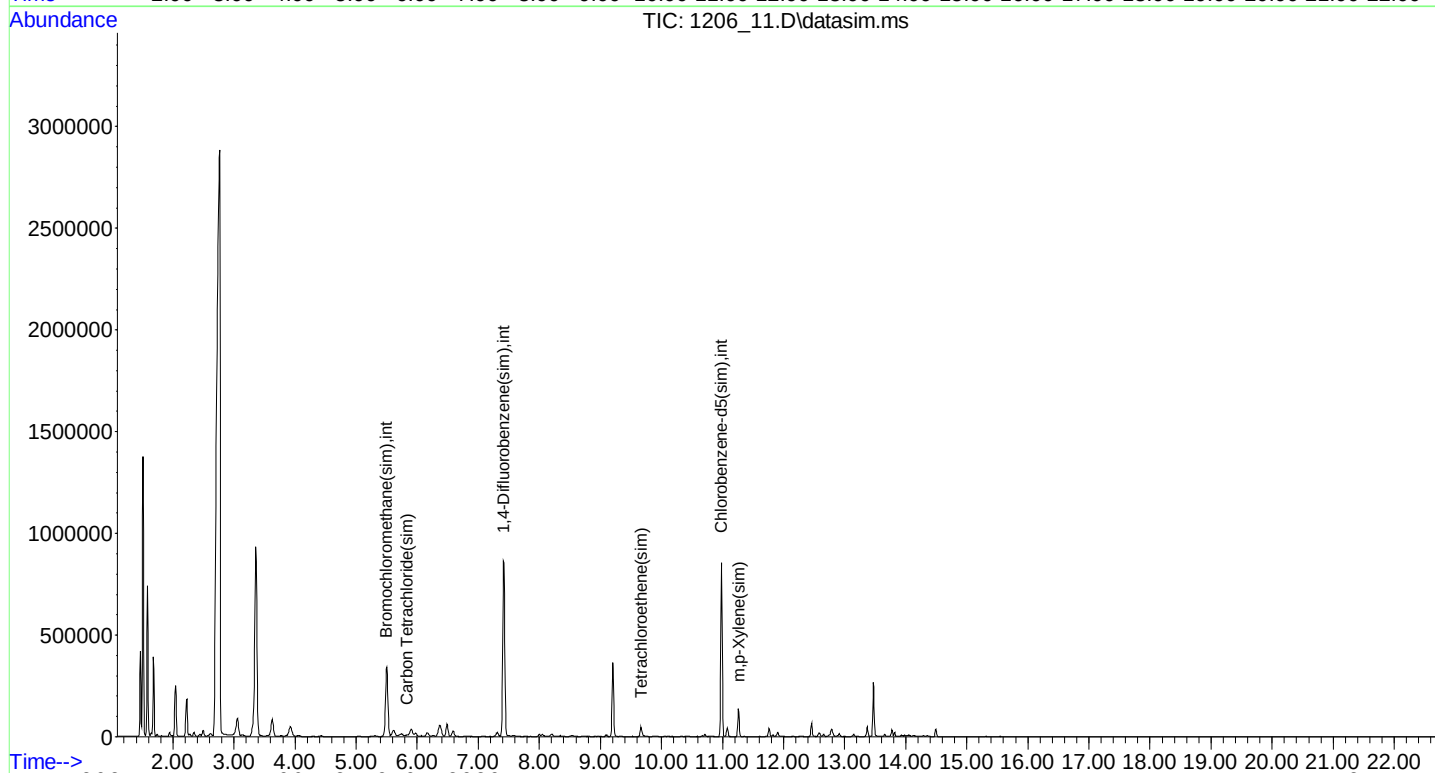
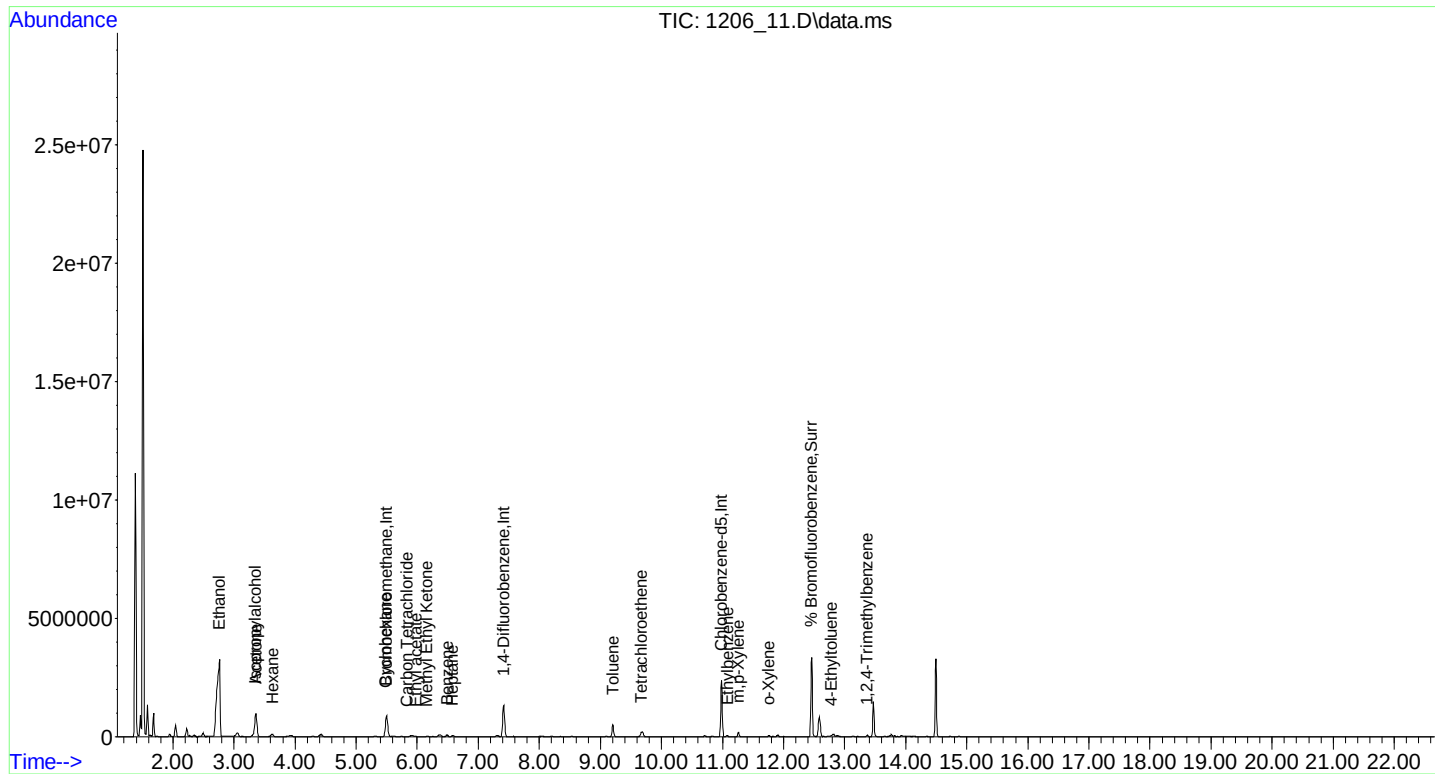
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.499  | 130   | 460297   | 10.000   | ng     | -0.03    |
| 36) 1,4-Difluorobenzene       | 7.418  | 114   | 1287716  | 10.000   | ng     | -0.02    |
| 53) Chlorobenzene-d5          | 10.984 | 82    | 710247   | 10.000   | ng     | -0.02    |
| 80) Bromochloromethane(sim)   | 5.502  | 130   | 471040   | 10.000   | ng     | #-0.03   |
| 94) 1,4-Difluorobenzene(sim)  | 7.421  | 114   | 1397609  | 10.000   | ng     | #-0.02   |
| 104) Chlorobenzene-d5(sim)    | 10.980 | 82    | 770210   | 10.000   | ng     | -0.02    |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 12.461 | 95    | 1053053  | 9.830    | ppbv   | -0.02    |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 98.30%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 10) Ethanol                   | 2.766  | 45    | 7221817  | 632.382  | ppbv#  | 91       |
| 12) Acetone                   | 3.361  | 43    | 1040946  | 14.013   | ppbv   | 93       |
| 13) Trichlorofluoromethane    | 2.218  | 101   | 26428    | 0.177    | ppbv#  | 91       |
| 14) Isopropylalcohol          | 3.354  | 45    | 692115   | 10.867   | ppbv#  | 1        |
| 25) Methyl Ethyl Ketone       | 6.162  | 43    | 21004    | 0.357    | ppbv#  | 55       |
| 27) Hexane                    | 3.628  | 57    | 68829    | 1.184    | ppbv   | 91       |
| 29) Ethyl acetate             | 5.975  | 43    | 28223    | 0.400    | ppbv   | 100      |
| 33) Benzene                   | 6.494  | 78    | 93318    | 0.886    | ppbv#  | 80       |
| 34) Carbon Tetrachloride      | 5.831  | 117   | 10557    | 0.086    | ppbv   | 92       |
| 35) Cyclohexane               | 5.492  | 56    | 21559    | 0.437    | ppbv#  | 25       |
| 43) Heptane                   | 6.583  | 43    | 28701    | 0.551    | ppbv#  | 20       |
| 48) Toluene                   | 9.204  | 91    | 385299   | 2.848    | ppbv   | 95       |
| 52) Tetrachloroethene         | 9.666  | 166   | 23382    | 0.252    | ppbv#  | 88       |
| 56) Ethylbenzene              | 11.080 | 91    | 40293    | 0.252    | ppbv   | 93       |
| 57) m,p-Xylene                | 11.265 | 91    | 111234   | 0.945    | ppbv   | 96       |
| 61) o-Xylene                  | 11.759 | 91    | 35312    | 0.255    | ppbv#  | 91       |
| 66) 4-Ethyltoluene            | 12.785 | 105   | 39695    | 0.233    | ppbv   | 97       |
| 68) 1,2,4-Trimethylbenzene    | 13.369 | 105   | 34040    | 0.242    | ppbv#  | 95       |
| 86) Carbon Tetrachloride(sim) | 5.834  | 117   | 10418    | 0.082    | ppbv   | 99       |
| 103) Tetrachloroethene(sim)   | 9.666  | 166   | 23294    | 0.279    | ppbv#  | 73       |
| 107) m,p-Xylene(sim)          | 11.265 | 91    | 111238   | 0.907    | ppbv   | 96       |

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

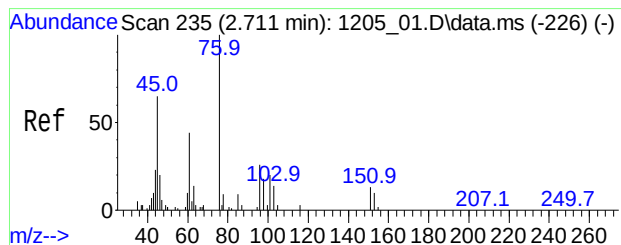
# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_11.D  
 Acq On : 6 Dec 2019 9:16 pm  
 Operator : Keith  
 Client ID : HAIR SALON IA-4 DUP  
 Lab ID : CE81149  
 ALS Vial : 107 Sample Multiplier: 1

Quant Time: Dec 09 09:03:38 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

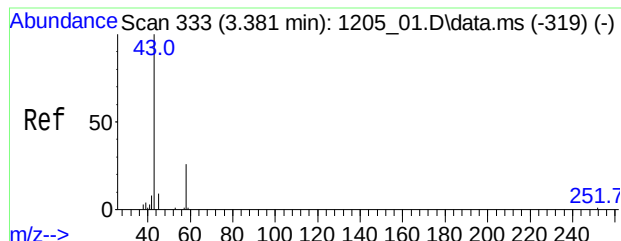
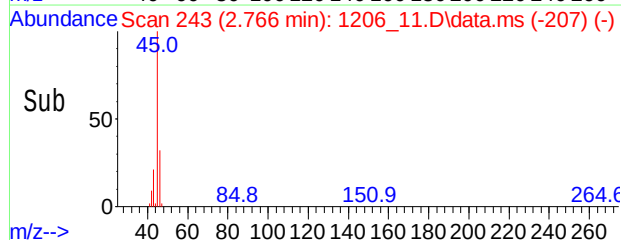
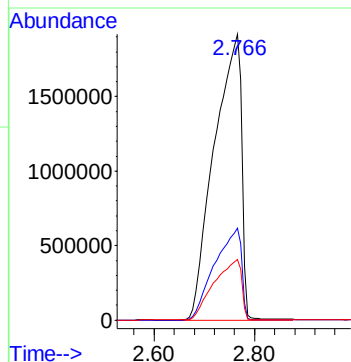
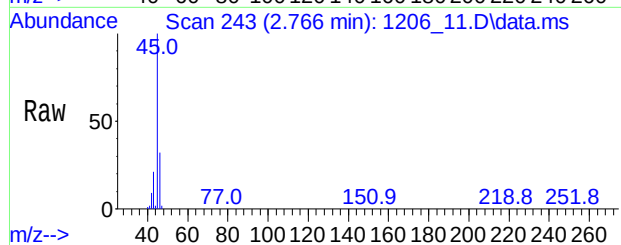






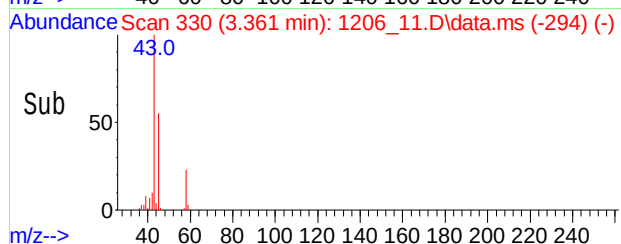
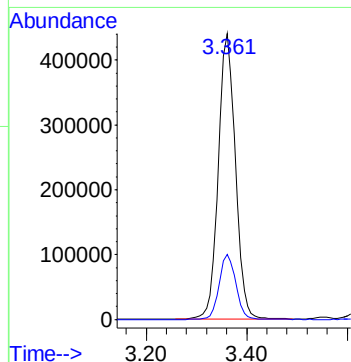
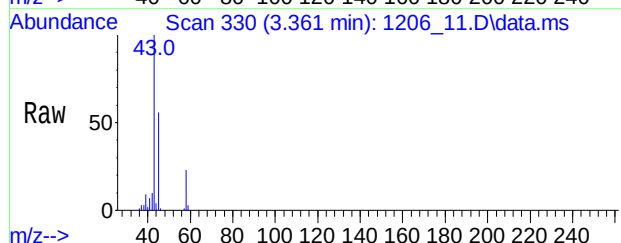
#10  
Ethanol  
Conc: 8\$ 632.382 ppbv  
RT: 2.766 min Scan# 243  
Delta R.T. 0.048 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

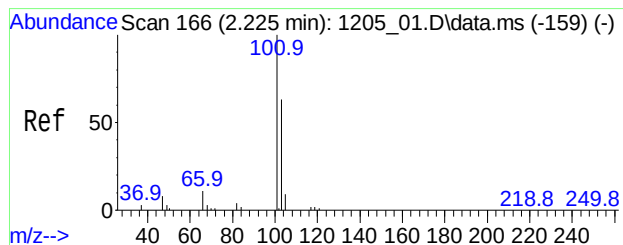
Tgt Ion: 45 Resp: 7221817  
Ion Ratio Lower Upper  
45 100  
46 31.7 24.5 36.7  
43 21.3 7.0 10.4#



#12  
Acetone  
Conc: 8\$ 14.013 ppbv  
RT: 3.361 min Scan# 330  
Delta R.T. -0.054 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

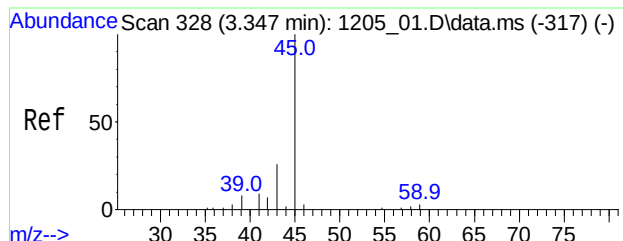
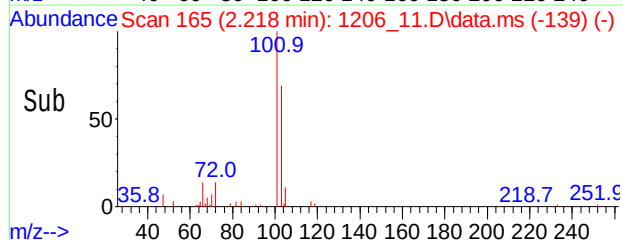
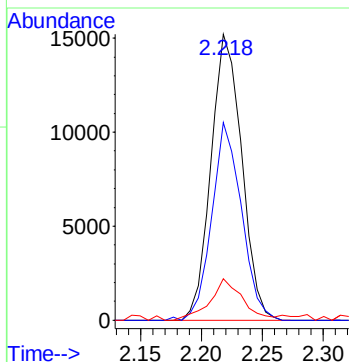
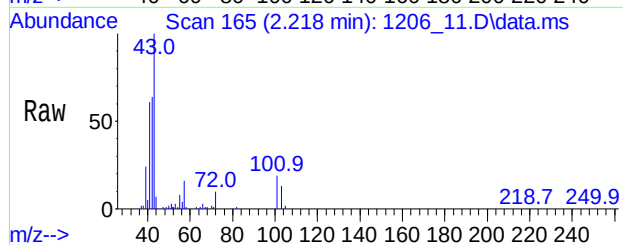
Tgt Ion: 43 Resp: 1040946  
Ion Ratio Lower Upper  
43 100  
58 22.2 15.4 23.0





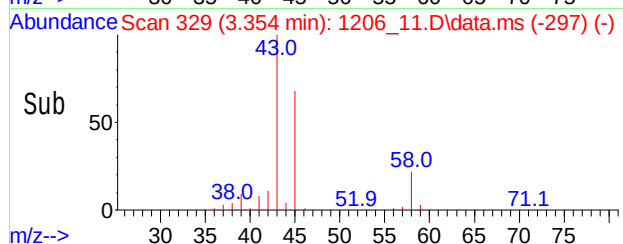
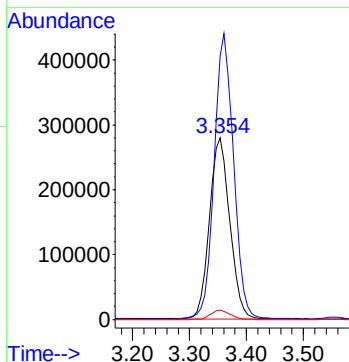
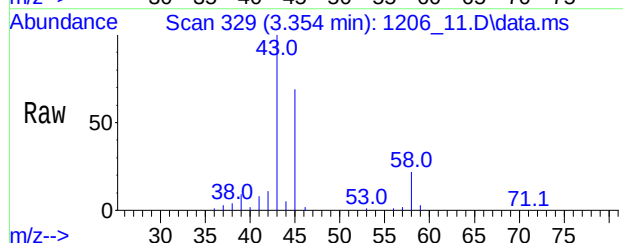
#13  
Trichlorofluoromethane  
Conc: 8\$ 0.177 ppbv  
RT: 2.218 min Scan# 165  
Delta R.T. -0.021 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

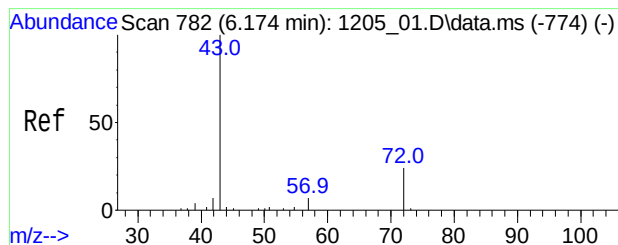
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 101     | 100   | 26428 |       |       |
| 103     | 66.6  | 55.4  | 83.2  |       |
| 66      | 15.1  | 22.0  | 33.0# |       |



#14  
Isopropylalcohol  
Conc: 8\$ 10.867 ppbv  
RT: 3.354 min Scan# 329  
Delta R.T. 0.021 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

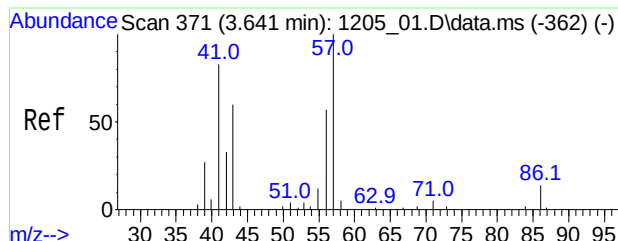
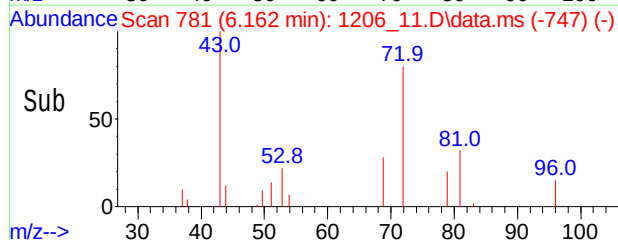
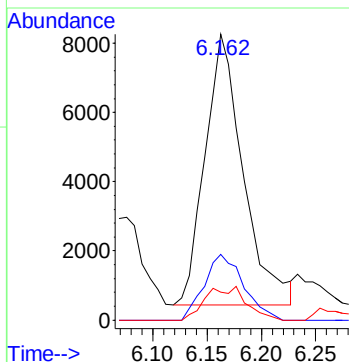
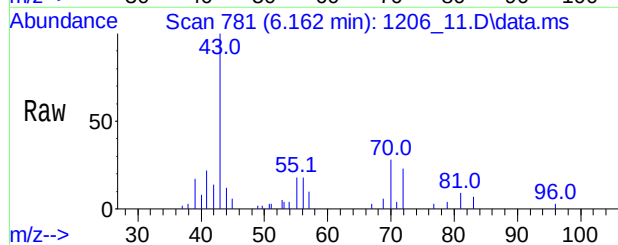
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 45      | 100   | 692115 |       |       |
| 43      | 150.4 | 24.0   | 36.0# |       |
| 59      | 5.0   | 0.0    | 0.0#  |       |





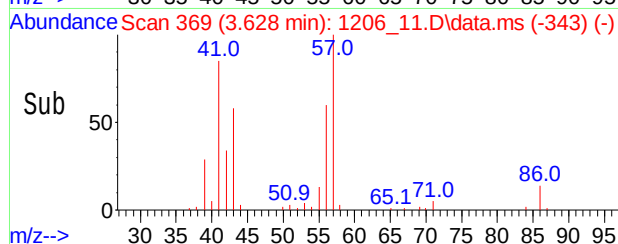
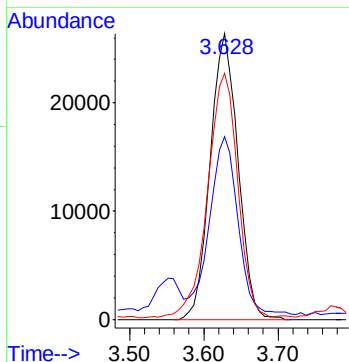
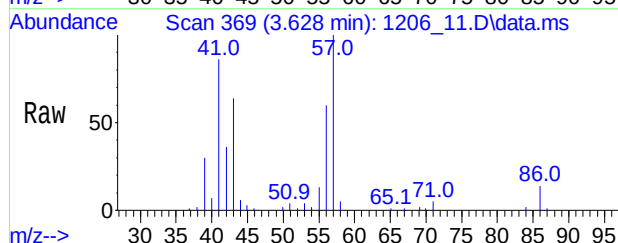
#25  
Methyl Ethyl Ketone  
Conc: 8\$ 0.357 ppbv  
RT: 6.162 min Scan# 781  
Delta R.T. -0.055 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

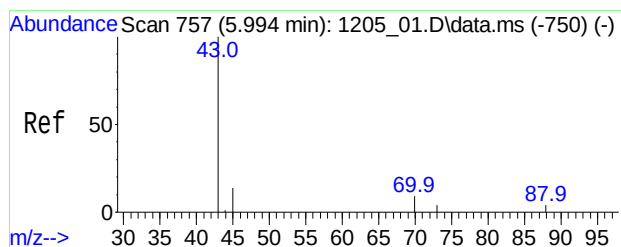
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 43      | 100   | 21004 |       |       |
| 72      | 25.3  | 7.2   | 10.8  |       |
| 57      | 0.0   | 0.0   | 0.0   |       |



#27  
Hexane  
Conc: 8\$ 1.184 ppbv  
RT: 3.628 min Scan# 369  
Delta R.T. -0.020 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

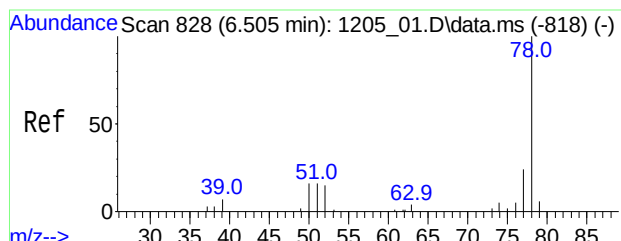
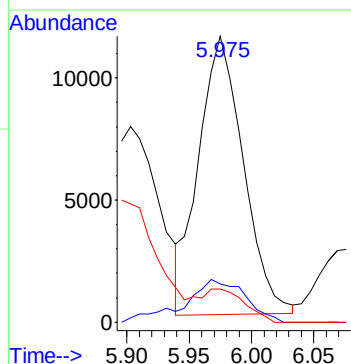
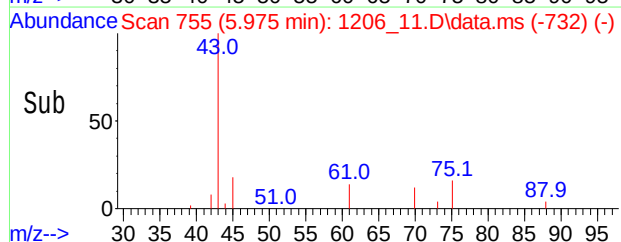
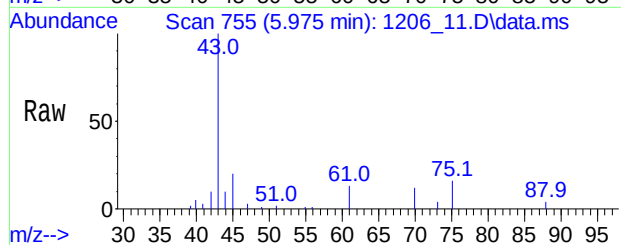
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 57      | 100   | 68829 |       |       |
| 43      | 62.9  | 50.9  | 76.3  |       |
| 41      | 92.3  | 85.5  | 128.3 |       |





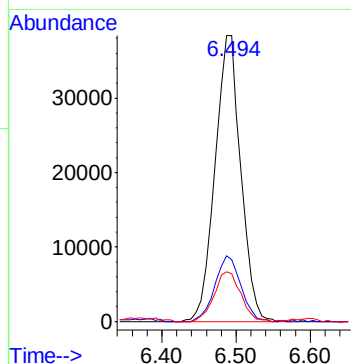
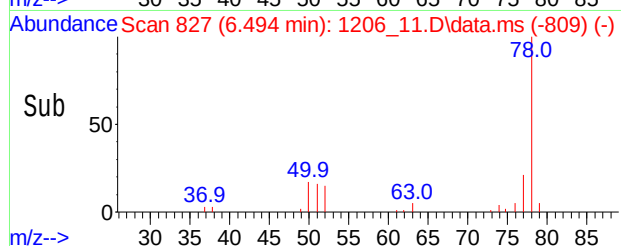
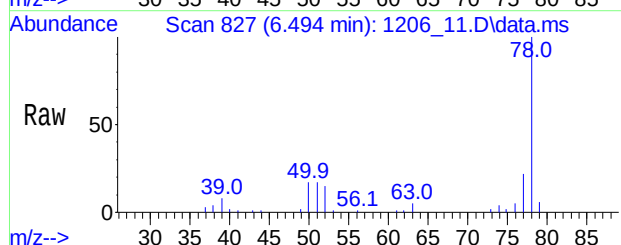
#29  
Ethyl acetate  
Conc: 8\$ 0.400 ppbv  
RT: 5.975 min Scan# 755  
Delta R.T. -0.033 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

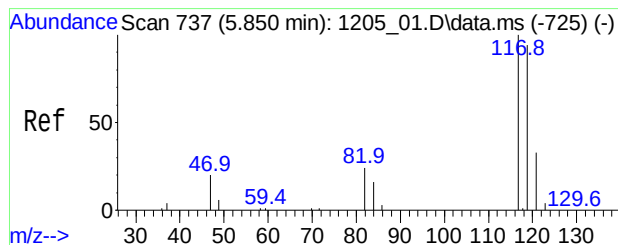
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 20.7  | 0.0   | 0.0#  |
| 70      | 9.6   | 0.0   | 0.0#  |



#33  
Benzene  
Conc: 8\$ 0.886 ppbv  
RT: 6.494 min Scan# 827  
Delta R.T. -0.024 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

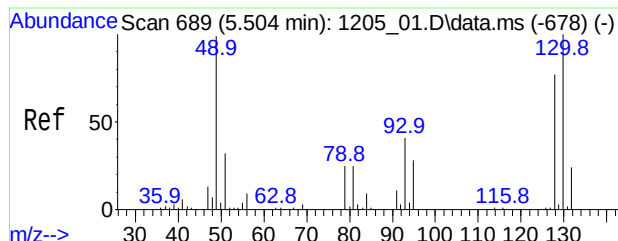
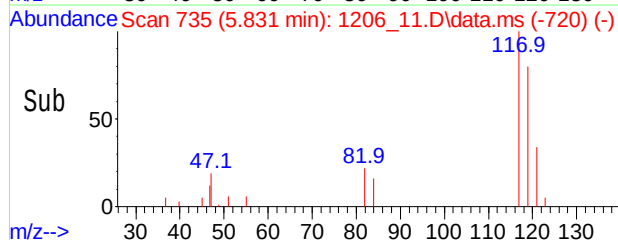
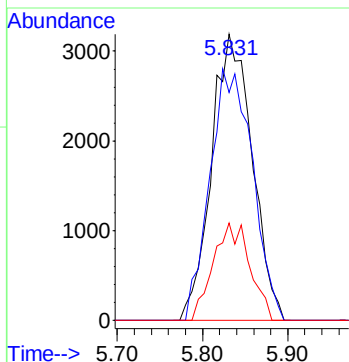
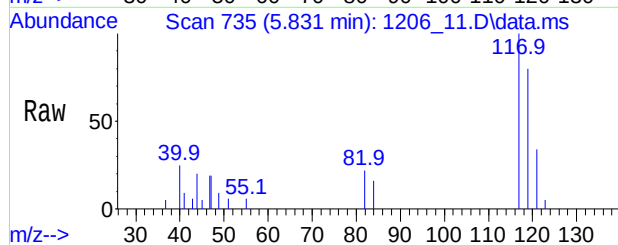
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.2  | 8.7   | 13.1# |
| 51      | 18.0  | 20.6  | 30.8# |





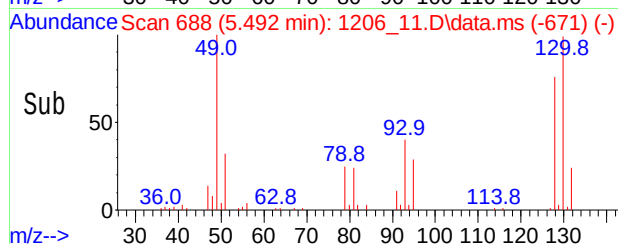
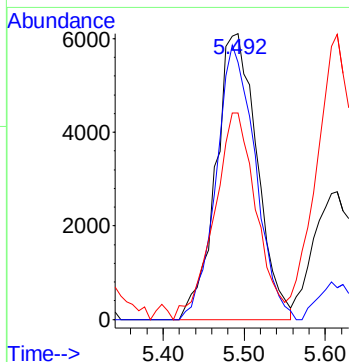
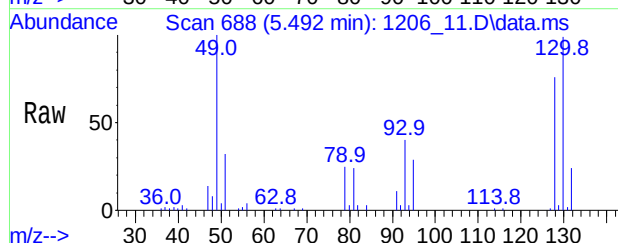
#34  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 5.831 min Scan# 735  
Delta R.T. -0.040 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

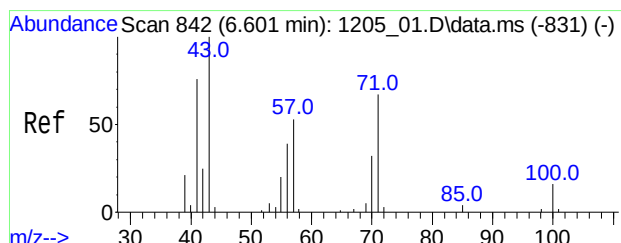
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 117     | 100   | 10557 |       |       |
| 119     | 92.1  | 75.7  | 115.7 |       |
| 121     | 30.5  | 0.0   | 34.9  |       |



#35  
Cyclohexane  
Conc: 8\$ 0.437 ppbv  
RT: 5.492 min Scan# 688  
Delta R.T. -0.026 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

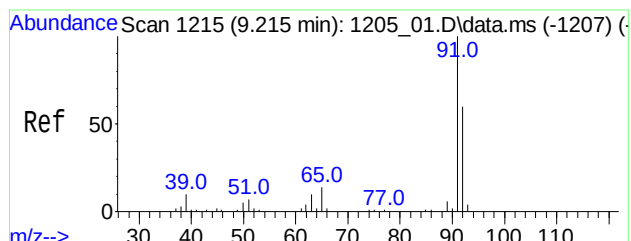
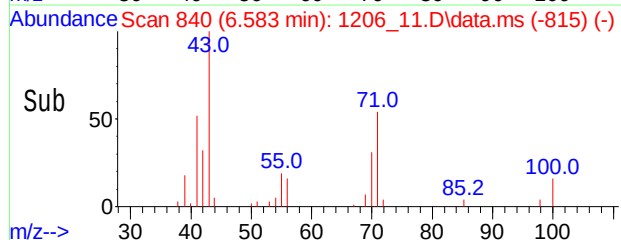
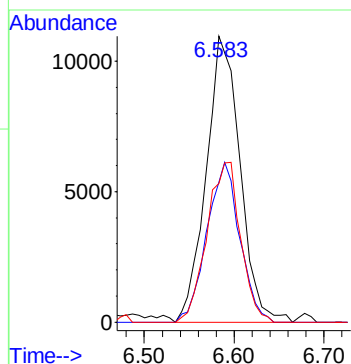
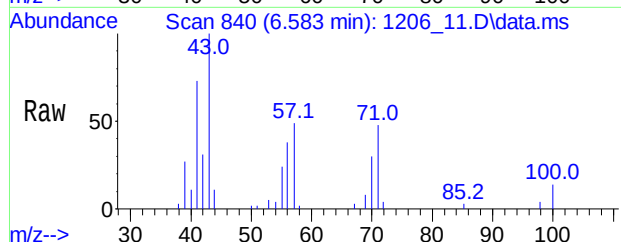
| Tgt Ion | Ratio | Resp  | Lower  | Upper |
|---------|-------|-------|--------|-------|
| 56      | 100   | 21559 |        |       |
| 84      | 91.2  | 117.8 | 176.8# |       |
| 41      | 73.4  | 182.0 | 273.0# |       |





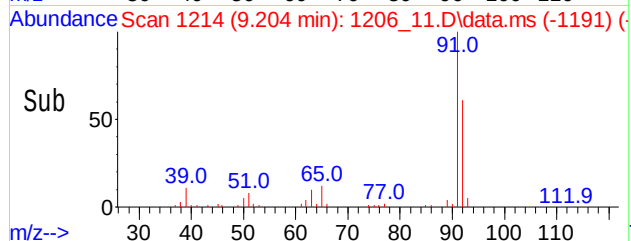
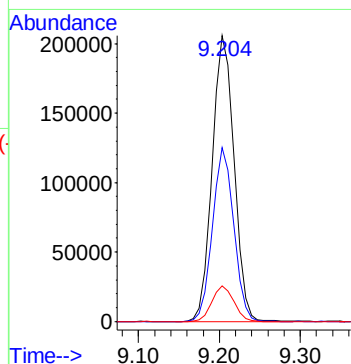
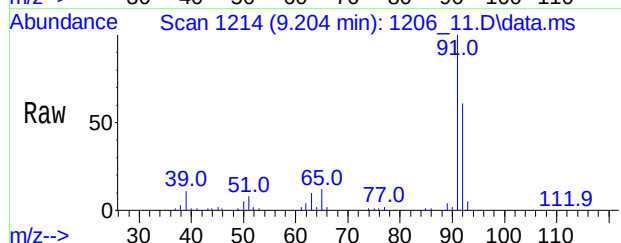
#43  
Heptane  
Conc: 8\$ 0.551 ppbv  
RT: 6.583 min Scan# 840  
Delta R.T. -0.031 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

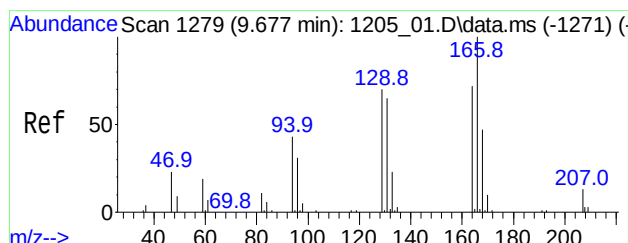
Tgt Ion: 43 Resp: 28701  
Ion Ratio Lower Upper  
43 100  
57 54.1 9.3 13.9#  
71 55.4 18.9 28.3#



#48  
Toluene  
Conc: 8\$ 2.848 ppbv  
RT: 9.204 min Scan# 1214  
Delta R.T. -0.032 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

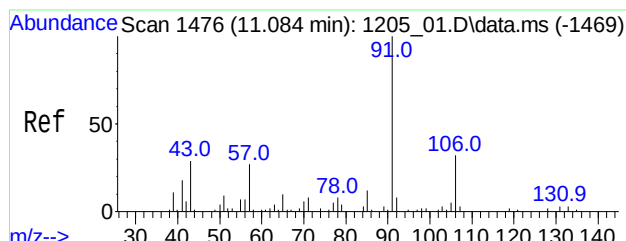
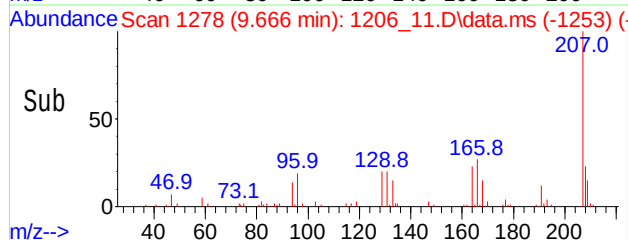
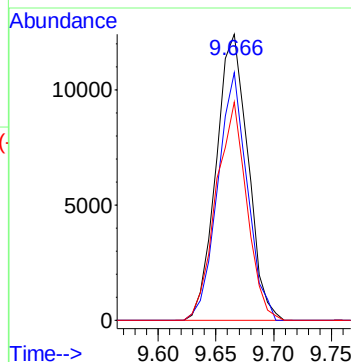
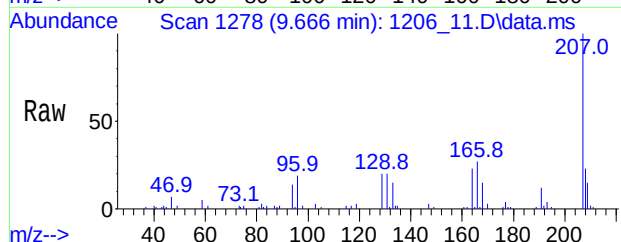
Tgt Ion: 91 Resp: 385299  
Ion Ratio Lower Upper  
91 100  
92 59.0 50.6 75.8  
65 12.3 0.0 0.0#





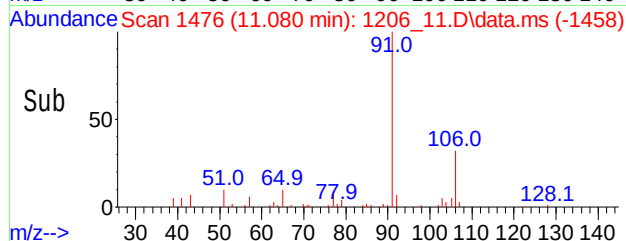
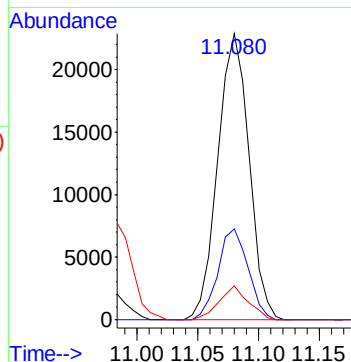
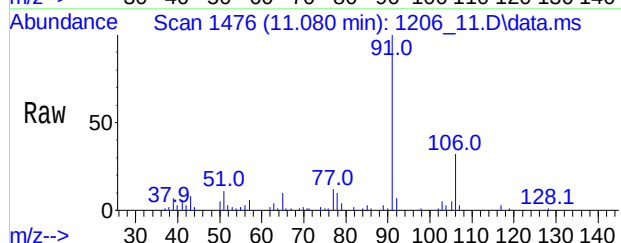
#52  
Tetrachloroethene  
Conc: 8\$ 0.252 ppbv  
RT: 9.666 min Scan# 1278  
Delta R.T. -0.018 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

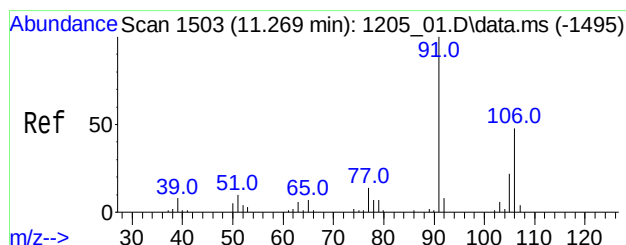
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 23382 |       |       |
| 164     | 80.5  | 53.6  | 80.4# |       |
| 129     | 73.6  | 54.5  | 81.7  |       |



#56  
Ethylbenzene  
Conc: 8\$ 0.252 ppbv  
RT: 11.080 min Scan# 1476  
Delta R.T. -0.024 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

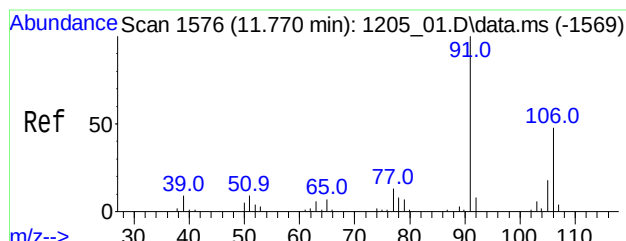
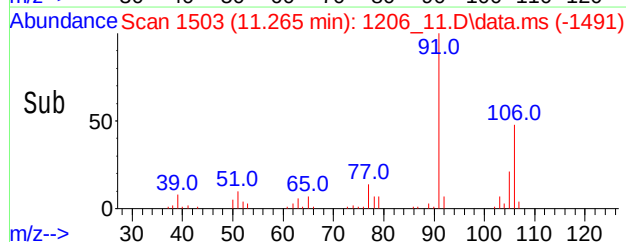
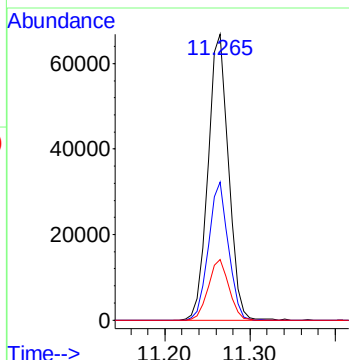
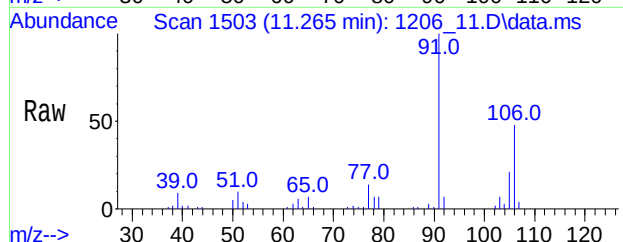
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 40293 |       |       |
| 106     | 30.5  | 6.9   | 46.9  |       |
| 77      | 10.9  | 0.0   | 20.0  |       |





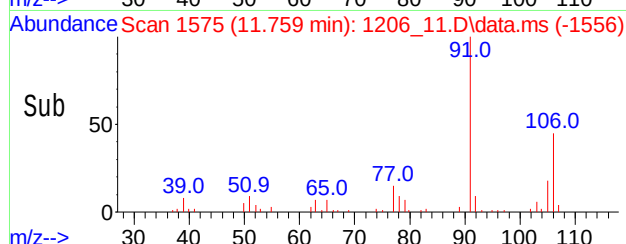
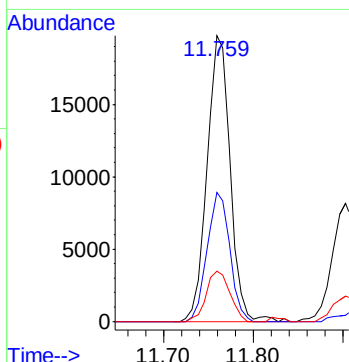
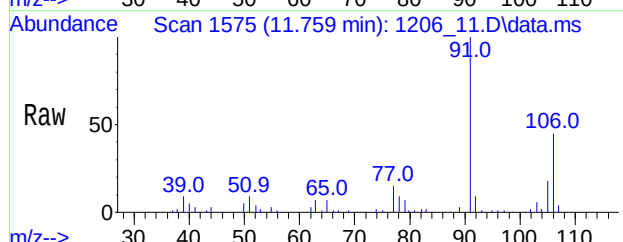
#57  
m,p-Xylene  
Conc: 8\$ 0.945 ppbv  
RT: 11.265 min Scan# 1503  
Delta R.T. -0.018 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 111234 |       |       |
| 106     | 47.0  | 34.9   | 52.3  |       |
| 105     | 21.3  | 16.3   | 24.5  |       |

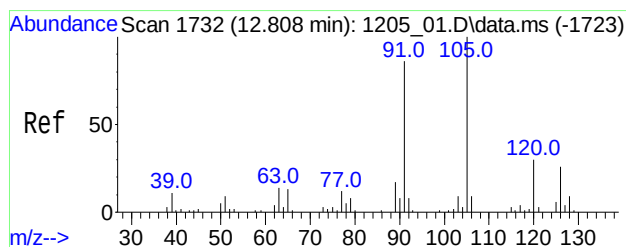


#61  
o-Xylene  
Conc: 8\$ 0.255 ppbv  
RT: 11.759 min Scan# 1575  
Delta R.T. -0.018 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 35312 |       |       |
| 106     | 44.4  | 32.4  | 48.6  |       |
| 105     | 17.9  | 9.0   | 13.4  |       |

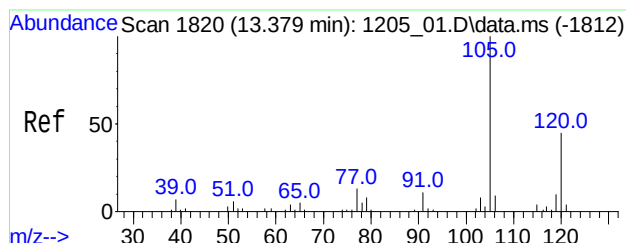
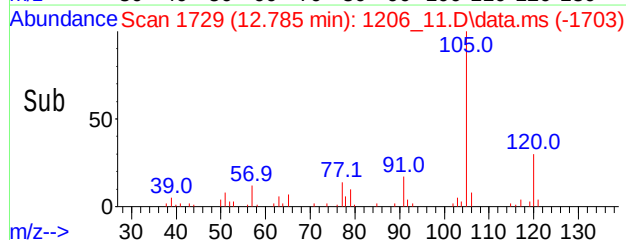
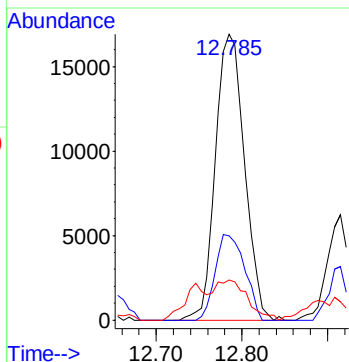
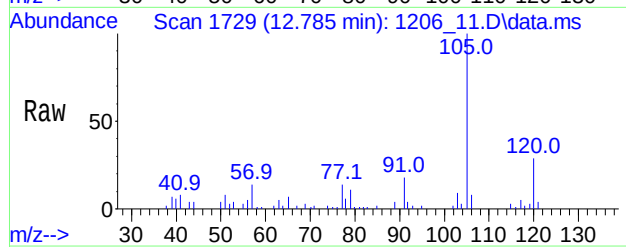






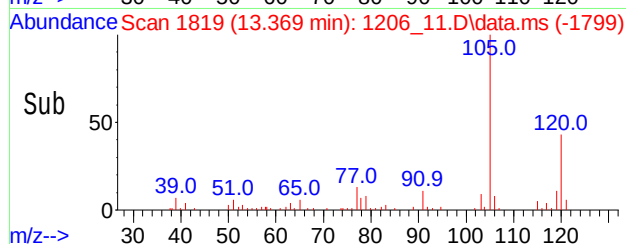
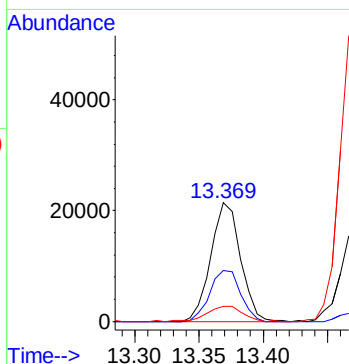
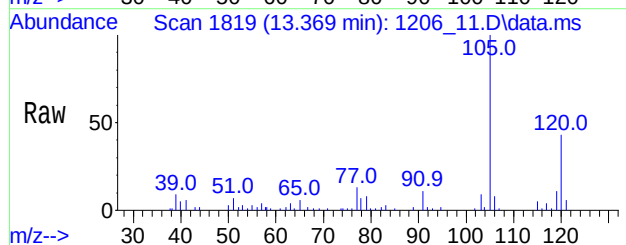
#66  
4-Ethyltoluene  
Conc: 8\$ 0.233 ppbv  
RT: 12.785 min Scan# 1729  
Delta R.T. -0.030 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

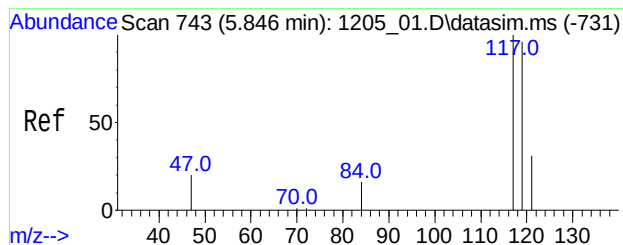
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 30.3  | 23.0  | 34.6  |
| 77      | 16.0  | 14.0  | 21.0  |



#68  
1,2,4-Trimethylbenzene  
Conc: 8\$ 0.242 ppbv  
RT: 13.369 min Scan# 1819  
Delta R.T. -0.023 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

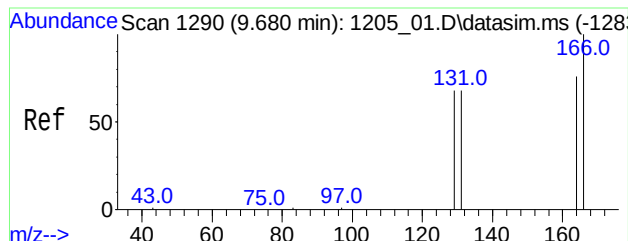
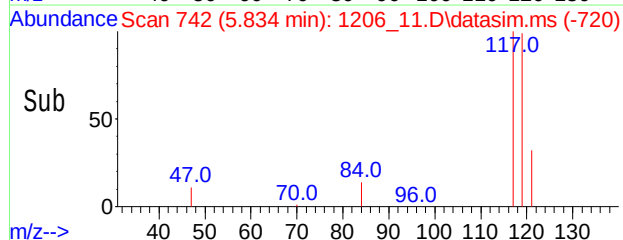
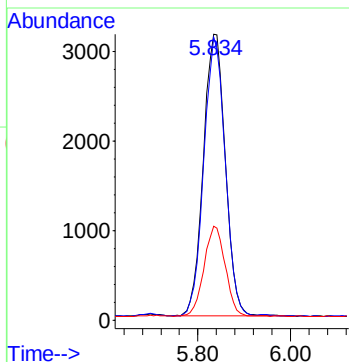
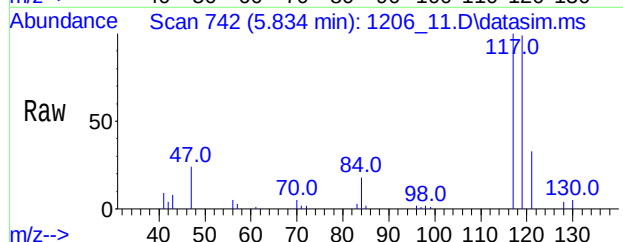
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 44.3  | 34.3  | 51.5  |
| 77      | 15.8  | 4.4   | 6.6#  |





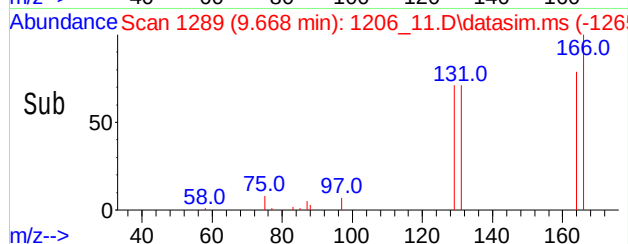
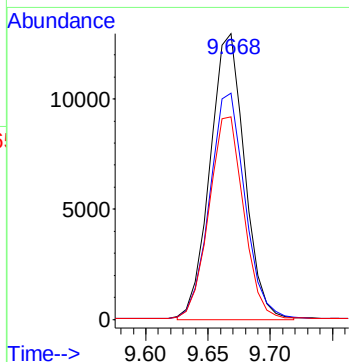
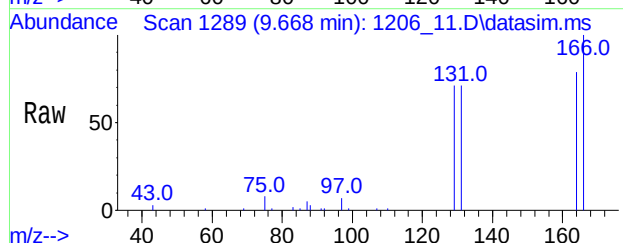
#86  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.082 ppbv  
RT: 5.834 min Scan# 742  
Delta R.T. -0.040 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

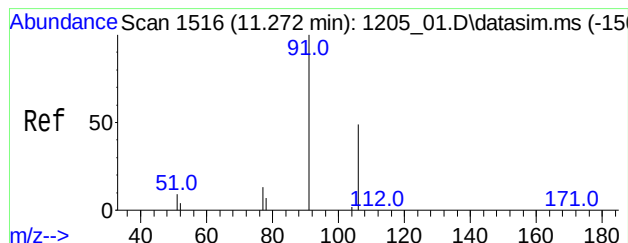
Tgt Ion: 117 Resp: 10418  
Ion Ratio Lower Upper  
117 100  
119 96.1 75.9 113.9  
121 30.9 24.9 37.3



#103  
Tetrachloroethene(sim)  
Conc: 8\$ 0.279 ppbv  
RT: 9.666 min Scan# 1289  
Delta R.T. -0.032 min  
Lab File: 1206\_11.D  
Acq: 6 Dec 2019 9:16 pm

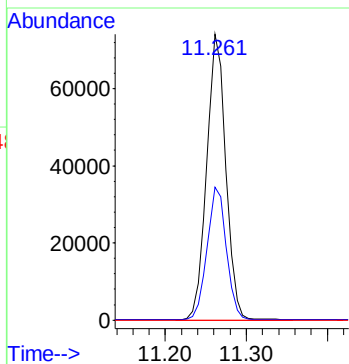
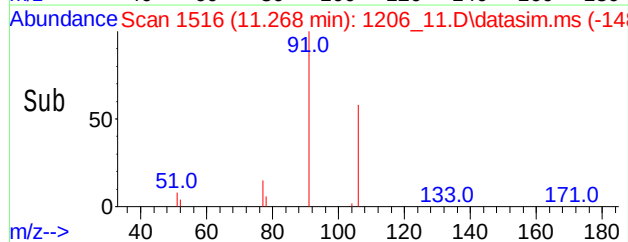
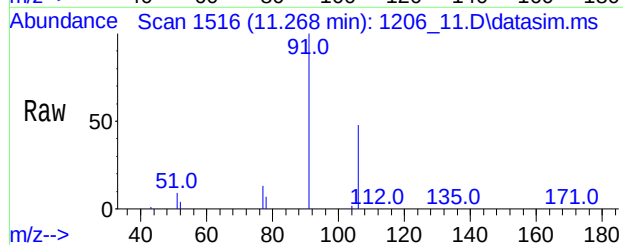
Tgt Ion: 166 Resp: 23294  
Ion Ratio Lower Upper  
166 100  
164 80.8 40.5 80.5#  
129 73.9 0.0 20.0#





#107  
 m,p-Xylene(sim)  
 Conc: 8\$ 0.907 ppbv  
 RT: 11.265 min Scan# 1516  
 Delta R.T. -0.018 min  
 Lab File: 1206\_11.D  
 Acq: 6 Dec 2019 9:16 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 111238 |       |       |
| 106     | 47.0  | 39.2   | 48.0  |       |
| 105     | 21.3  | 16.3   | 24.5  |       |



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-6 TILE STORE

|              |          |                  |                   |
|--------------|----------|------------------|-------------------|
| Client:      | CEG      | Lab:             | Phoenix Env. Labs |
| SDG No.:     | GCE81145 | Lab Sample ID:   | CE81150           |
| Canister:    | 468      | Lab File ID:     | 1208_14.D         |
| Instrument:  | CHEM24   | Column:          | RTX-VMS           |
|              |          | Date Received:   | 12/05/19          |
| Purge Volume | 200 (cc) | Date Analyzed:   | 12/09/19          |
| Matrix:      | AIR      | Dilution Factor: | 1                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                           | CONC. | Q  | MDL   | PQL   | R |
|-------------|------------------------------------|-------|----|-------|-------|---|
| 115-07-1    | Propylene                          | 0.581 | U  | 0.581 | 0.581 | r |
| 75-71-8     | Dichlorodifluoromethane            | 0.202 | U  | 0.202 | 0.202 | r |
| 74-87-3     | Chloromethane                      | 0.485 | U  | 0.485 | 0.485 | r |
| 106-99-0    | 1,3-Butadiene                      | 0.452 | U  | 0.452 | 0.452 | r |
| 75-00-3     | Chloroethane                       | 0.379 | U  | 0.379 | 0.379 | r |
| 64-17-5     | Ethanol                            | 49.4  | ES | 0.531 | 0.531 | r |
| 67-64-1     | Acetone                            | 16.0  | S  | 0.421 | 0.421 | r |
| 75-69-4     | Trichlorofluoromethane             | 0.255 |    | 0.178 | 0.178 | r |
| 67-63-0     | Isopropylalcohol                   | 0.694 | S  | 0.407 | 0.407 | r |
| 107-13-1    | Acrylonitrile                      | 0.461 | U  | 0.461 | 0.461 | r |
| 75-09-2     | Methylene Chloride                 | 0.864 | U  | 0.864 | 0.864 | r |
| 75-15-0     | Carbon Disulfide                   | 0.321 | U  | 0.321 | 0.321 | r |
| 1634-04-4   | Methyl tert-butyl ether(MTBE)      | 0.278 | U  | 0.278 | 0.278 | r |
| 78-93-3     | Methyl Ethyl Ketone                | 0.339 | U  | 0.339 | 0.339 | r |
| 110-54-3    | Hexane                             | 1.44  | S  | 0.284 | 0.284 | r |
| 141-78-6    | Ethyl acetate                      | 0.278 | U  | 0.278 | 0.278 | r |
| 109-99-9    | Tetrahydrofuran                    | 0.339 | U  | 0.339 | 0.339 | r |
| 71-43-2     | Benzene                            | 0.320 |    | 0.313 | 0.313 | r |
| 110-82-7    | Cyclohexane                        | 0.291 | U  | 0.291 | 0.291 | r |
| 142-82-5    | Heptane                            | 0.244 | U  | 0.244 | 0.244 | r |
| 108-10-1    | 4-Methyl-2-pentanone(MIBK)         | 0.244 | U  | 0.244 | 0.244 | r |
| 10061-02-6  | trans-1,3-Dichloropropene          | 0.221 | U  | 0.221 | 0.221 | r |
| 108-88-3    | Toluene                            | 3.87  |    | 0.266 | 0.266 | r |
| 591-78-6    | 2-Hexanone(MBK)                    | 0.244 | U  | 0.244 | 0.244 | r |
| 127-18-4    | Tetrachloroethene                  | 24.3  |    | 0.037 | 0.037 | r |
| 108-90-7    | Chlorobenzene                      | 0.217 | U  | 0.217 | 0.217 | r |
| 100-41-4    | Ethylbenzene                       | 0.428 |    | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene                         | 1.62  |    | 0.230 | 0.230 | r |
| 100-42-5    | Styrene                            | 0.617 |    | 0.235 | 0.235 | r |
| 95-47-6     | o-Xylene                           | 0.666 |    | 0.230 | 0.230 | r |
| 98-82-8     | Isopropylbenzene                   | 1.60  |    | 0.204 | 0.204 | r |
| 622-96-8    | 4-Ethyltoluene                     | 0.232 |    | 0.204 | 0.204 | r |
| 108-67-8    | 1,3,5-Trimethylbenzene             | 0.204 | U  | 0.204 | 0.204 | r |
| 95-63-6     | 1,2,4-Trimethylbenzene             | 0.263 |    | 0.204 | 0.204 | r |
| 76-14-2     | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U  | 0.143 | 0.143 | r |
| 75-01-4     | Vinyl Chloride(sim)                | 0.078 | U  | 0.078 | 0.078 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

|              |                 |                  |                          |                 |
|--------------|-----------------|------------------|--------------------------|-----------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> | VP-6 TILE STORE |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CE81150</u>           |                 |
| Canister:    | <u>468</u>      | Lab File ID:     | <u>1208_14.D</u>         |                 |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u>RTX-VMS</u>           | Date Received:  |
|              |                 |                  |                          | <u>12/05/19</u> |
| Purge Volume | <u>200</u> (cc) | Date Analyzed:   | <u>12/09/19</u>          |                 |
| Matrix:      | <u>AIR</u>      | Dilution Factor: | <u>1</u>                 |                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|------------|--------------------------------|-------|---|-------|-------|---|
| 74-83-9    | Bromomethane(sim)              | 0.258 | U | 0.258 | 0.258 | r |
| 71-55-6    | 1,1,1-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 56-23-5    | Carbon Tetrachloride(sim)      | 0.060 |   | 0.032 | 0.032 | r |
| 75-35-4    | 1,1-Dichloroethene(sim)        | 0.051 | U | 0.051 | 0.051 | r |
| 76-13-1    | Trichlorotrifluoroethane(sim)  | 0.131 | U | 0.131 | 0.131 | r |
| 156-60-5   | Trans-1,2-Dichloroethene(sim)  | 0.252 | U | 0.252 | 0.252 | r |
| 75-34-3    | 1,1-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 156-59-2   | Cis-1,2-Dichloroethene(sim)    | 0.051 | U | 0.051 | 0.051 | r |
| 67-66-3    | Chloroform(sim)                | 0.205 | U | 0.205 | 0.205 | r |
| 107-06-2   | 1,2-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 78-87-5    | 1,2-dichloropropane(sim)       | 0.217 | U | 0.217 | 0.217 | r |
| 75-27-4    | Bromodichloromethane(sim)      | 0.149 | U | 0.149 | 0.149 | r |
| 79-01-6    | Trichloroethene(sim)           | 0.075 |   | 0.037 | 0.037 | r |
| 123-91-1   | 1,4-Dioxane(sim)               | 0.278 | U | 0.278 | 0.278 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim)   | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5    | 1,1,2-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1   | Dibromochloromethane(sim)      | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4   | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2    | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6   | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 79-34-5    | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 100-44-7   | Benzyl chloride(sim)           | 0.193 | U | 0.193 | 0.193 | r |
| 541-73-1   | 1,3-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 106-46-7   | 1,4-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 135-98-8   | sec-Butylbenzene(sim)          | 0.182 | U | 0.182 | 0.182 | r |
| 99-87-6    | 4-Isopropyltoluene(sim)        | 0.182 | U | 0.182 | 0.182 | r |
| 95-50-1    | 1,2-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 104-51-8   | n-Butylbenzene(sim)            | 0.182 | U | 0.182 | 0.182 | r |
| 120-82-1   | 1,2,4-Trichlorobenzene(sim)    | 0.135 | U | 0.135 | 0.135 | r |
| 87-68-3    | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_14.D  
 Acq On : 9 Dec 2019 1:14 pm  
 Operator : Keith  
 Client ID : VP-6 TILE STORE  
 Lab ID : CE81150  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 09 15:03:09 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

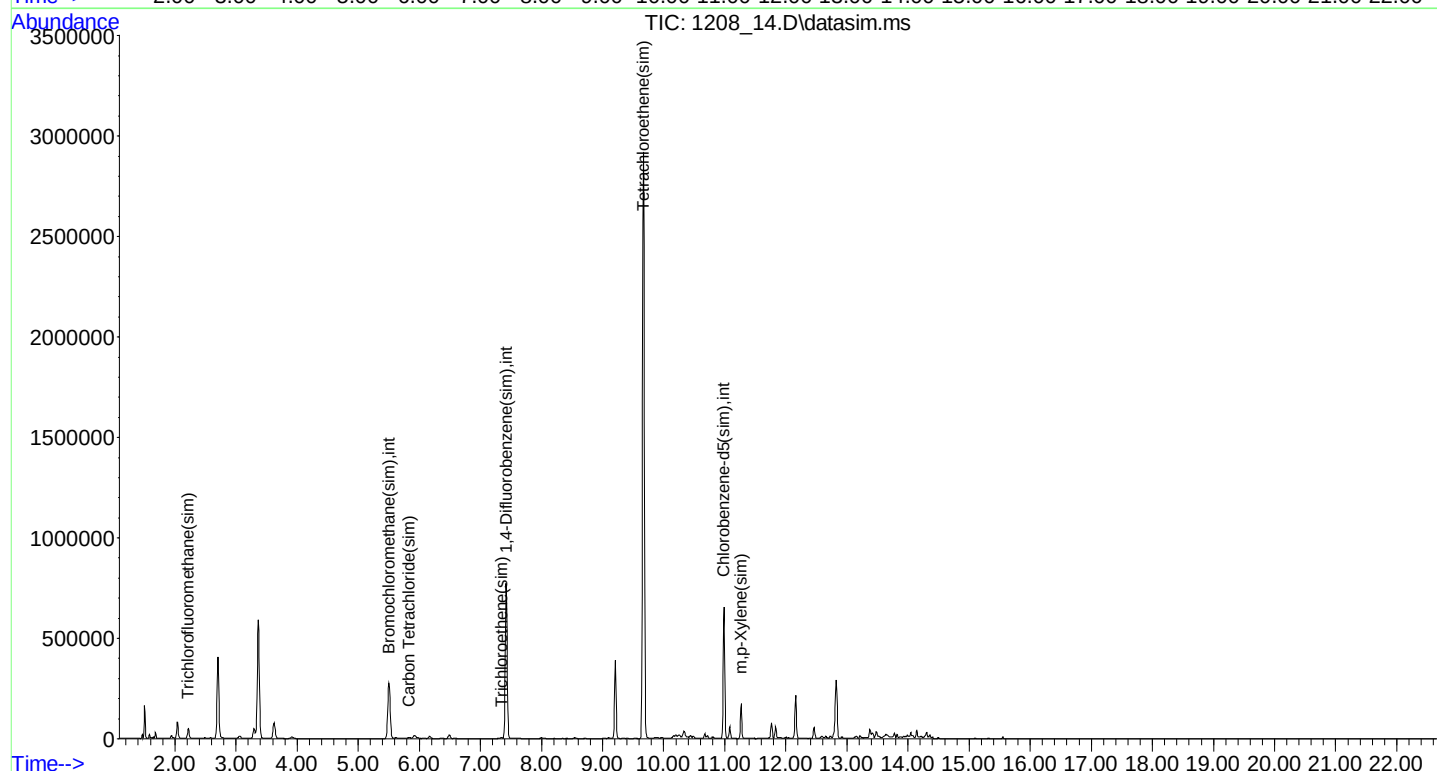
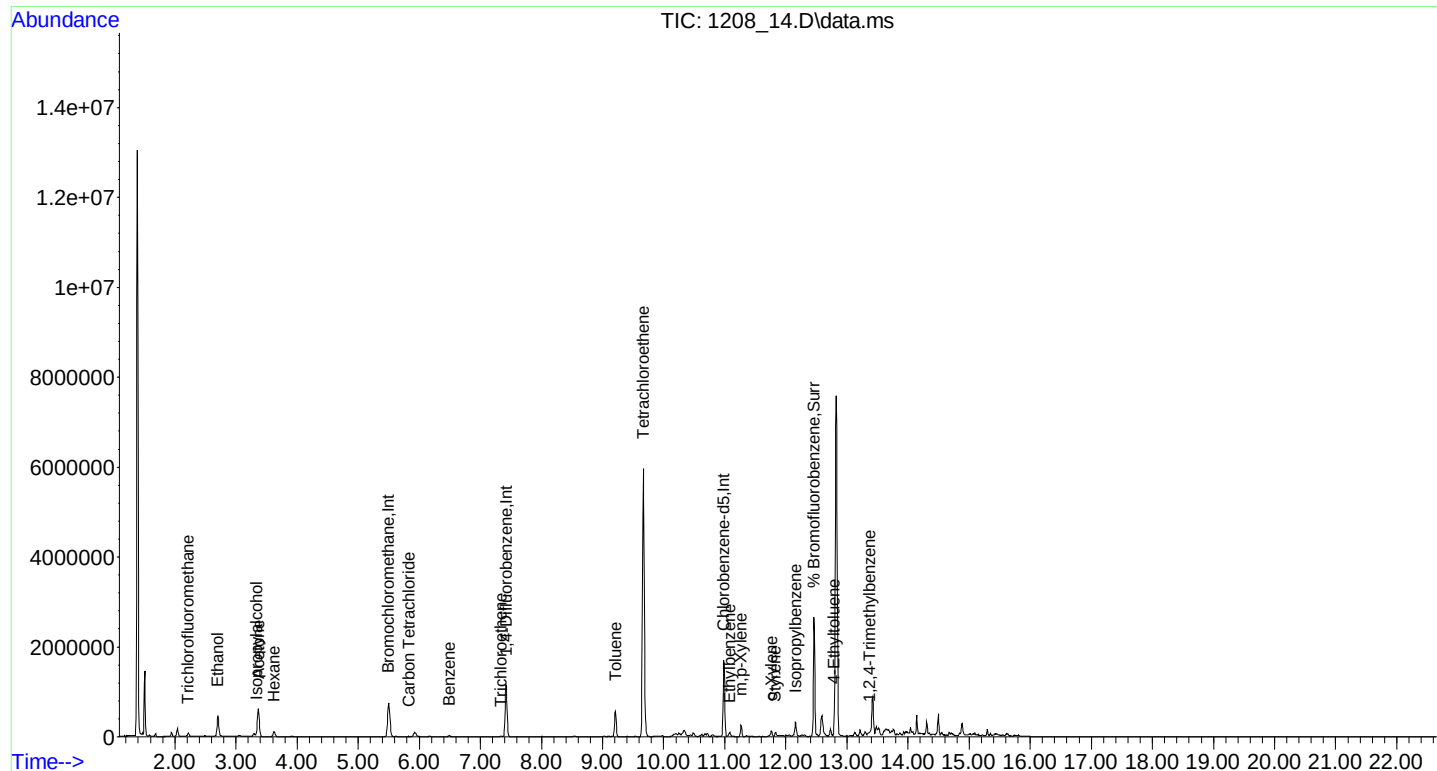
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.499  | 130   | 369612   | 10.000   | ng     | 0.02     |
| 36) 1,4-Difluorobenzene       | 7.418  | 114   | 1033784  | 10.000   | ng     | 0.02     |
| 53) Chlorobenzene-d5          | 10.984 | 82    | 526282   | 10.000   | ng     | 0.02     |
| 80) Bromochloromethane(sim)   | 5.502  | 130   | 385251   | 10.000   | ng     | # 0.02   |
| 94) 1,4-Difluorobenzene(sim)  | 7.421  | 114   | 1140798  | 10.000   | ng     | # 0.02   |
| 104) Chlorobenzene-d5(sim)    | 10.987 | 82    | 566041   | 10.000   | ng     | 0.02     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 12.461 | 95    | 787132   | 9.717    | ppbv   | 0.02     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 97.20%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 10) Ethanol                   | 2.704  | 45    | 486222   | 49.350   | ppbv#  | 62       |
| 12) Acetone                   | 3.368  | 43    | 934037   | 16.008   | ppbv   | 93       |
| 13) Trichlorofluoromethane    | 2.218  | 101   | 35102    | 0.255    | ppbv#  | 80       |
| 14) Isopropylalcohol          | 3.340  | 45    | 38977    | 0.694    | ppbv#  | 1        |
| 27) Hexane                    | 3.621  | 57    | 58361    | 1.441    | ppbv#  | 68       |
| 33) Benzene                   | 6.494  | 78    | 27187    | 0.320    | ppbv#  | 89       |
| 34) Carbon Tetrachloride      | 5.831  | 117   | 6322     | 0.059    | ppbv   | 99       |
| 39) Trichloroethene           | 7.343  | 130   | 3852     | 0.072    | ppbv   | 96       |
| 48) Toluene                   | 9.211  | 91    | 414170   | 3.873    | ppbv   | 91       |
| 52) Tetrachloroethene         | 9.666  | 166   | 1847106  | 24.288   | ppbv   | 94       |
| 56) Ethylbenzene              | 11.080 | 91    | 52414    | 0.428    | ppbv   | 89       |
| 57) m,p-Xylene                | 11.265 | 91    | 141236   | 1.620    | ppbv#  | 92       |
| 59) Styrene                   | 11.828 | 104   | 40781    | 0.617    | ppbv#  | 33       |
| 61) o-Xylene                  | 11.766 | 91    | 67317    | 0.666    | ppbv   | 88       |
| 64) Isopropylbenzene          | 12.162 | 105   | 197346   | 1.603    | ppbv   | 97       |
| 66) 4-Ethyltoluene            | 12.792 | 105   | 29622    | 0.231    | ppbv#  | 16       |
| 68) 1,2,4-Trimethylbenzene    | 13.376 | 105   | 28497    | 0.263    | ppbv#  | 94       |
| 84) Trichlorofluoromethane... | 2.221  | 101   | 36057    | 0.214    | ppbv   | 93       |
| 86) Carbon Tetrachloride(sim) | 5.834  | 117   | 6686     | 0.060    | ppbv   | 99       |
| 97) Trichloroethene(sim)      | 7.343  | 130   | 3720     | 0.075    | ppbv#  | 74       |
| 103) Tetrachloroethene(sim)   | 9.666  | 166   | 1846151  | 27.575   | ppbv#  | 80       |
| 107) m,p-Xylene(sim)          | 11.265 | 91    | 141449   | 1.596    | ppbv#  | 92       |

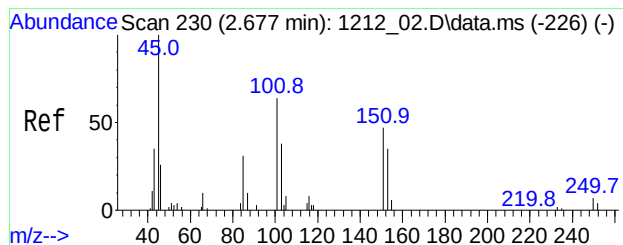
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_14.D  
 Acq On : 9 Dec 2019 1:14 pm  
 Operator : Keith  
 Client ID : VP-6 TILE STORE  
 Lab ID : CE81150  
 ALS Vial : 14 Sample Multiplier: 1

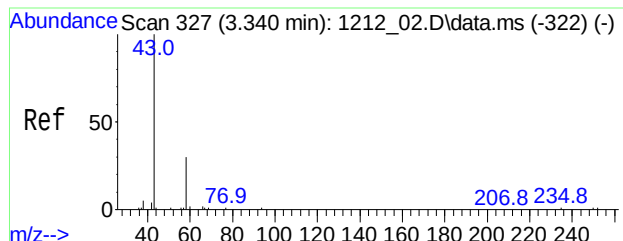
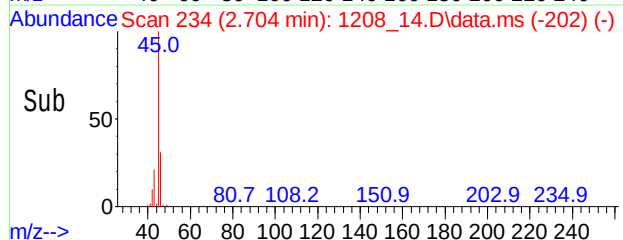
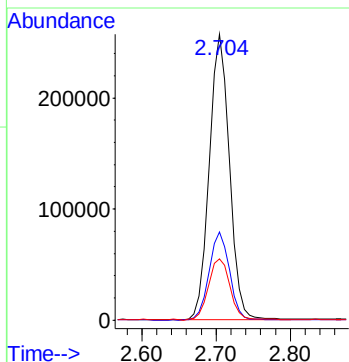
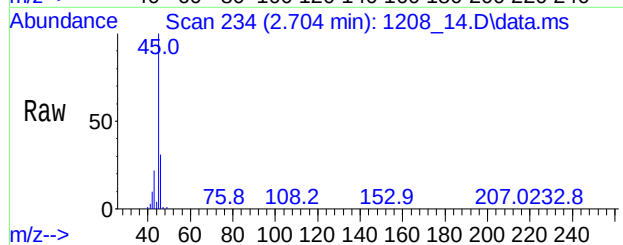
Quant Time: Dec 09 15:03:09 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration





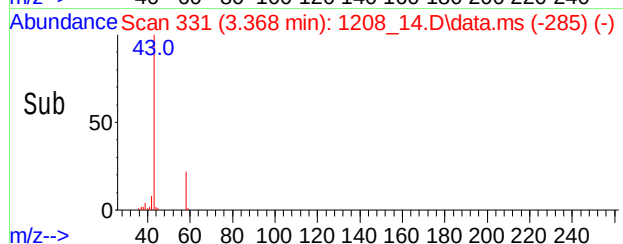
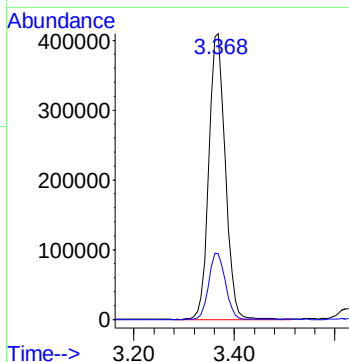
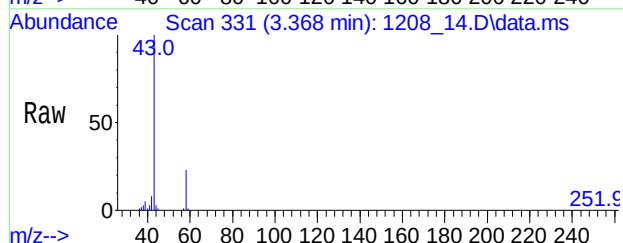
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Ethanol  
Conc: 8\$ 49.350 ppbv  
RT: 2.704 min Scan# 234  
Delta R.T. 0.020 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 45      | 100   | 486222 |       |       |
| 46      | 31.4  | 5.9    |       | 8.9#  |
| 43      | 23.4  | 35.8   |       | 53.8# |

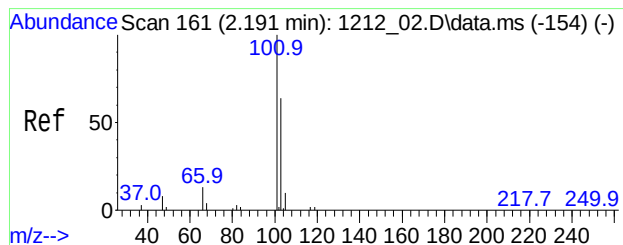


#12  
Acetone  
Conc: 8\$ 16.008 ppbv  
RT: 3.368 min Scan# 331  
Delta R.T. 0.014 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 43      | 100   | 934037 |       |       |
| 58      | 23.5  | 16.3   |       | 24.5  |

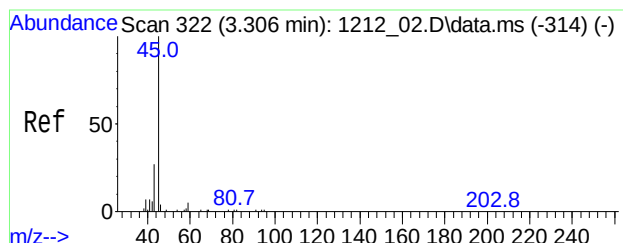
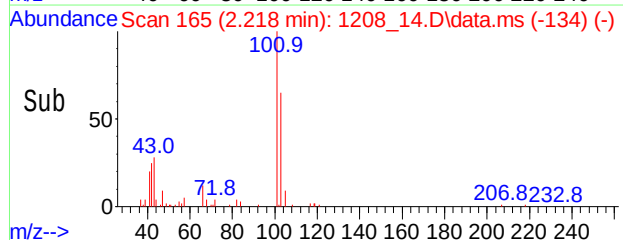
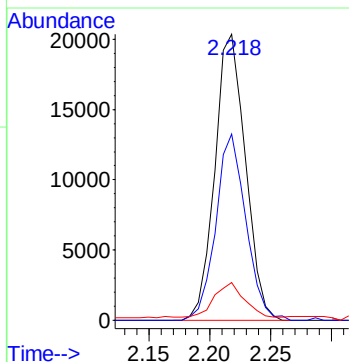
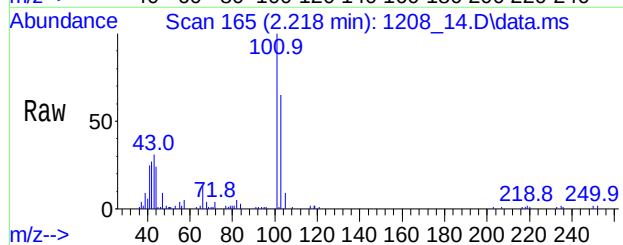






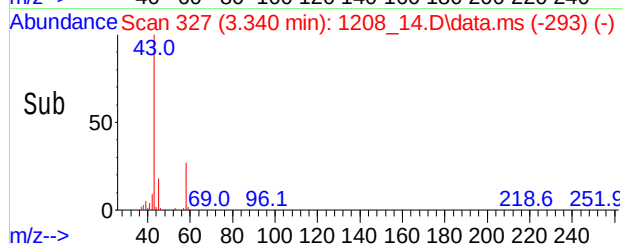
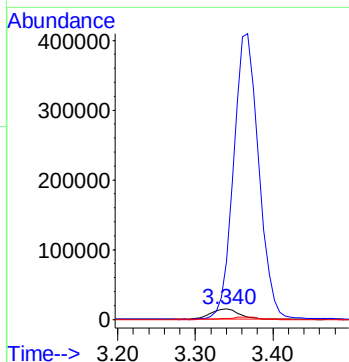
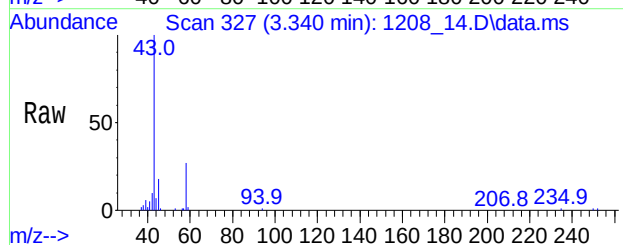
#13  
Trichlorofluoromethane  
Conc: 8\$ 0.255 ppbv  
RT: 2.218 min Scan# 165  
Delta R.T. 0.014 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

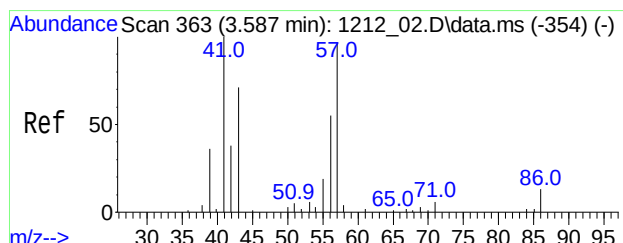
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 101     | 100   | 35102 |       |       |
| 103     | 63.7  | 60.1  | 90.1  |       |
| 66      | 11.9  | 25.4  | 38.0  |       |



#14  
Isopropylalcohol  
Conc: 8\$ 0.694 ppbv  
RT: 3.340 min Scan# 327  
Delta R.T. 0.034 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

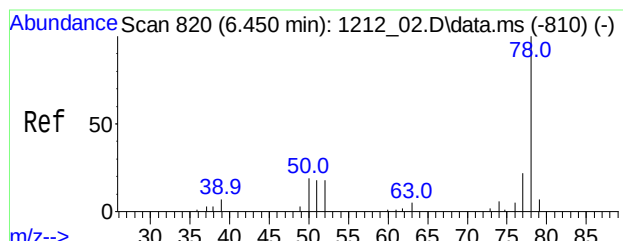
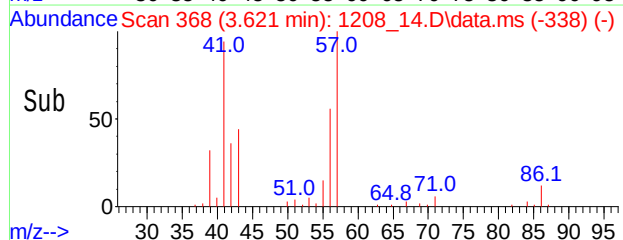
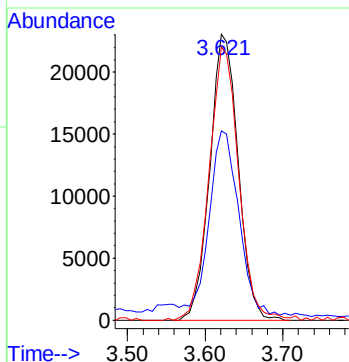
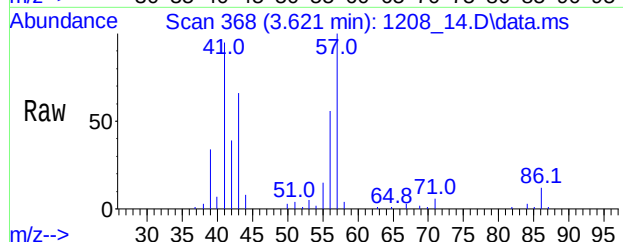
| Tgt Ion | Ratio  | Resp  | Lower | Upper |
|---------|--------|-------|-------|-------|
| 45      | 100    | 38977 |       |       |
| 43      | 2394.9 | 29.8  | 44.8  |       |
| 59      | 23.2   | 0.0   | 0.0   |       |





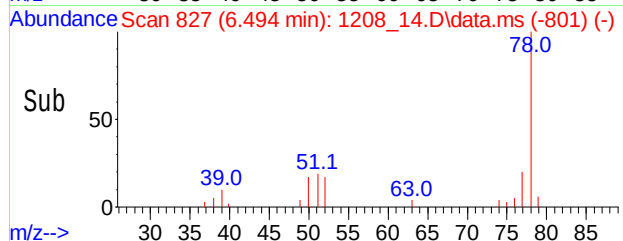
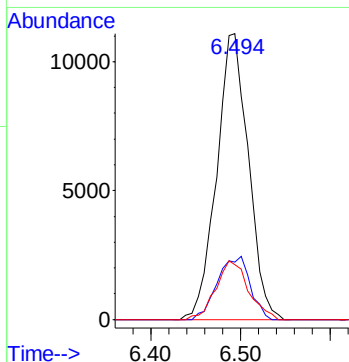
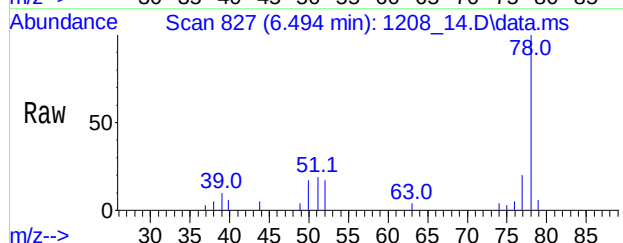
#27  
Hexane  
Conc: 8\$ 1.441 ppbv  
RT: 3.621 min Scan# 368  
Delta R.T. 0.007 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

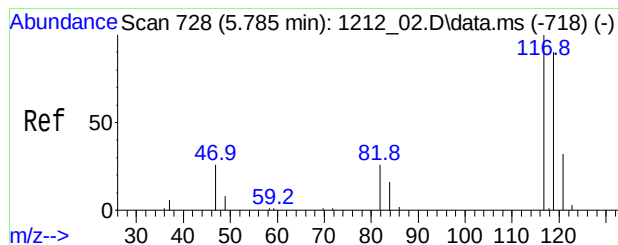
Tgt Ion: 57 Resp: 58361  
Ion Ratio Lower Upper  
57 100  
43 67.5 44.1 66.1#  
41 100.0 118.4 177.6#



#33  
Benzene  
Conc: 8\$ 0.320 ppbv  
RT: 6.494 min Scan# 827  
Delta R.T. 0.031 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

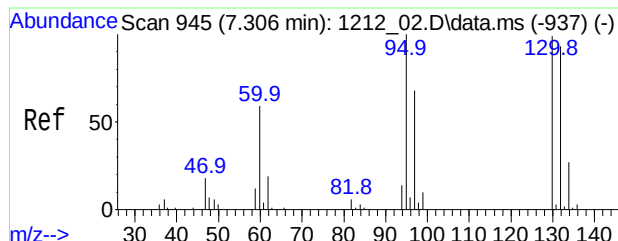
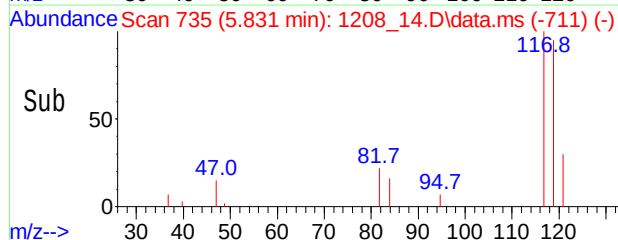
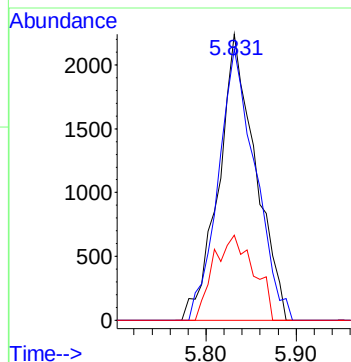
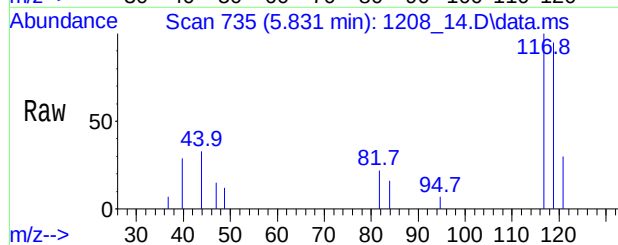
Tgt Ion: 78 Resp: 27187  
Ion Ratio Lower Upper  
78 100  
77 22.8 14.5 21.7#  
51 21.1 13.1 19.7#





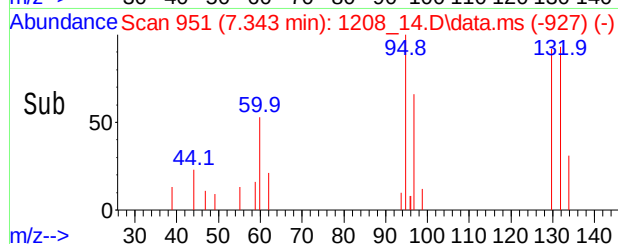
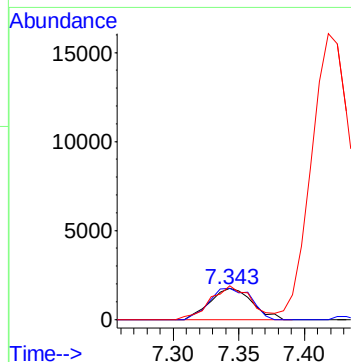
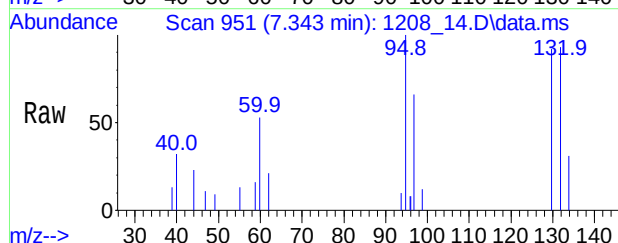
#34  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 5.831 min Scan# 735  
Delta R.T. 0.025 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

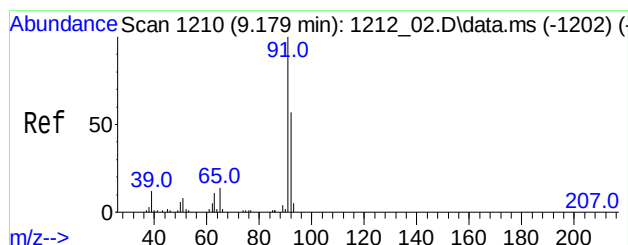
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 6322 |       |       |
| 119     | 96.0  | 75.6 | 115.6 |       |
| 121     | 32.6  | 11.2 | 51.2  |       |



#39  
Trichloroethene  
Conc: 8\$ Below Cal  
RT: 7.343 min Scan# 951  
Delta R.T. 0.017 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

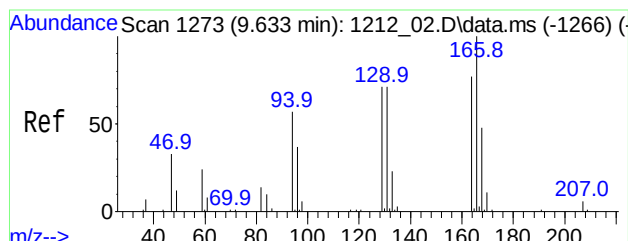
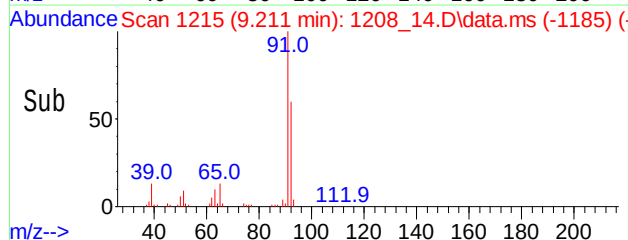
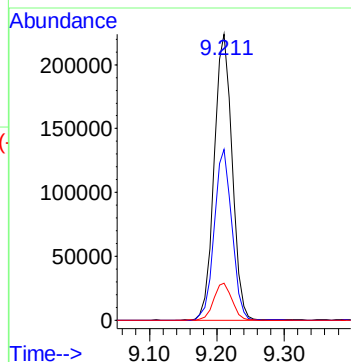
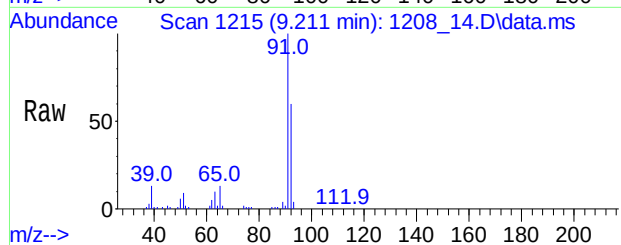
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 130     | 100   | 3852 |       |       |
| 132     | 100.9 | 84.4 | 126.6 |       |
| 95      | 105.6 | 0.0  | 0.0#  |       |





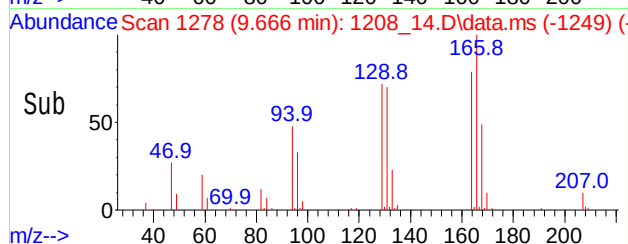
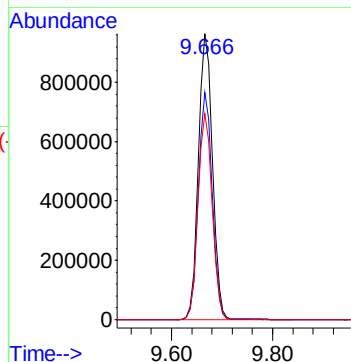
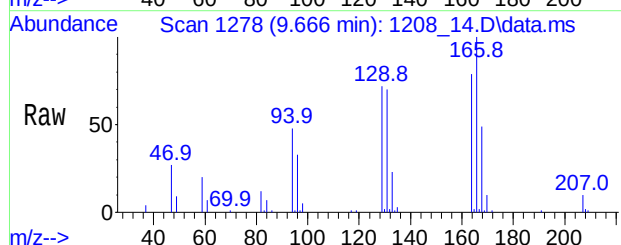
#48  
Toluene  
Conc: 8\$ 3.873 ppbv  
RT: 9.211 min Scan# 1215  
Delta R.T. 0.018 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

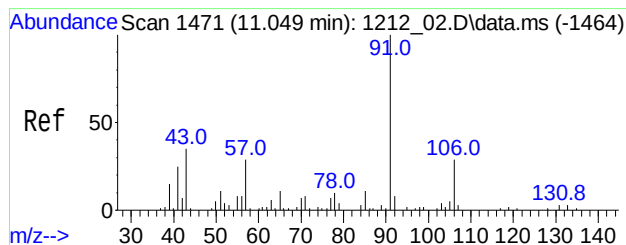
Tgt Ion: 91 Resp: 414170  
Ion Ratio Lower Upper  
91 100  
92 58.6 52.6 79.0  
65 13.0 0.0 0.0#



#52  
Tetrachloroethene  
Conc: 8\$ 24.288 ppbv  
RT: 9.666 min Scan# 1278  
Delta R.T. 0.011 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

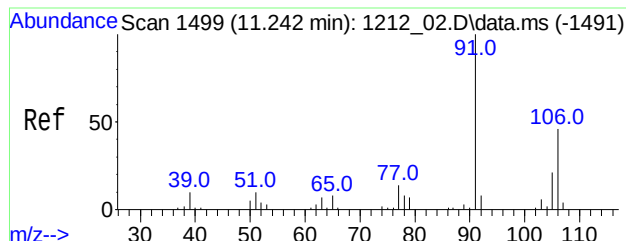
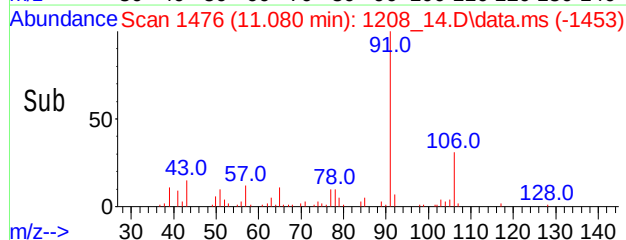
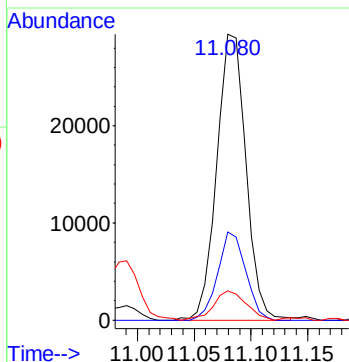
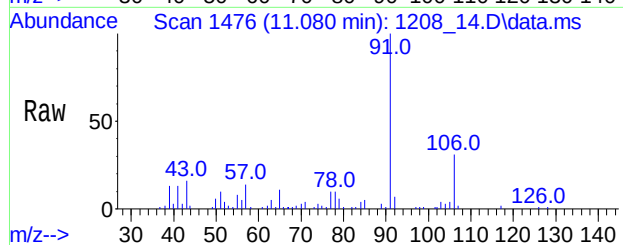
Tgt Ion: 166 Resp: 1847106  
Ion Ratio Lower Upper  
166 100  
164 78.6 58.9 88.3  
129 72.1 53.3 79.9





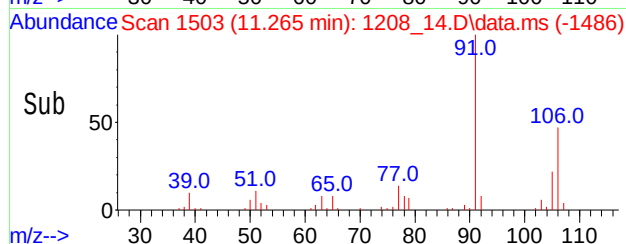
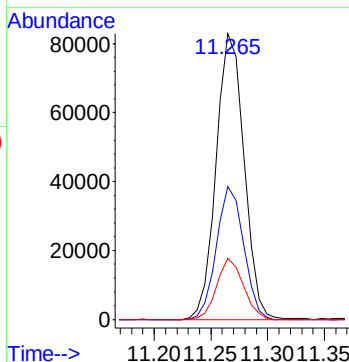
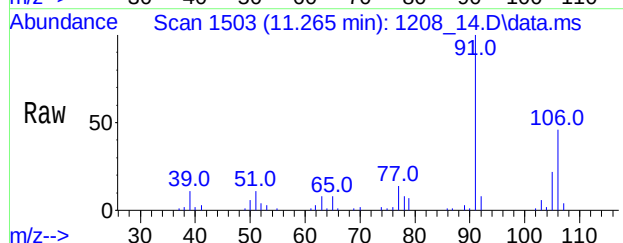
#56  
Ethylbenzene  
Conc: 8\$ 0.428 ppbv  
RT: 11.080 min Scan# 1476  
Delta R.T. 0.010 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

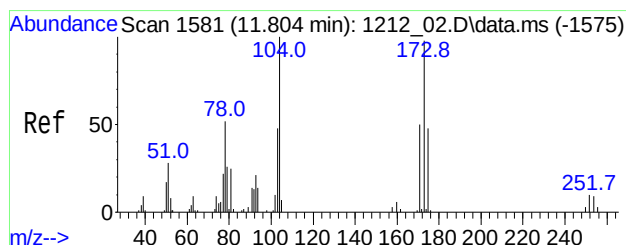
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 52414 |       |       |
| 106     | 29.5  | 4.0   | 44.0  |       |
| 77      | 11.4  | 0.0   | 20.0  |       |



#57  
m,p-Xylene  
Conc: 8\$ 1.620 ppbv  
RT: 11.265 min Scan# 1503  
Delta R.T. 0.017 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

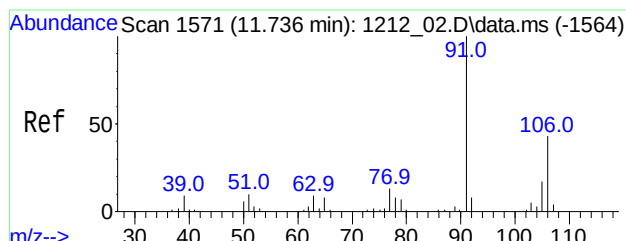
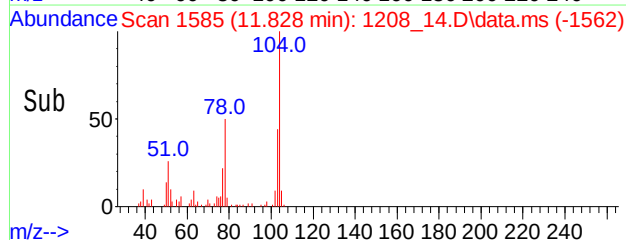
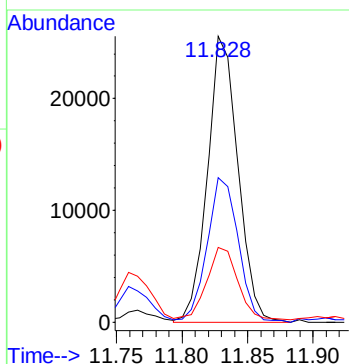
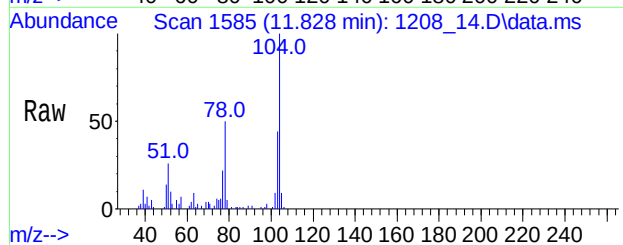
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 141236 |       |       |
| 106     | 45.5  | 33.8   | 50.8  |       |
| 105     | 20.4  | 10.8   | 16.2  |       |





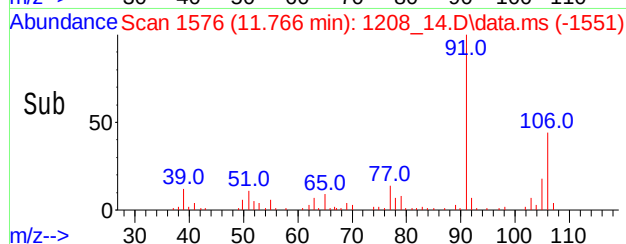
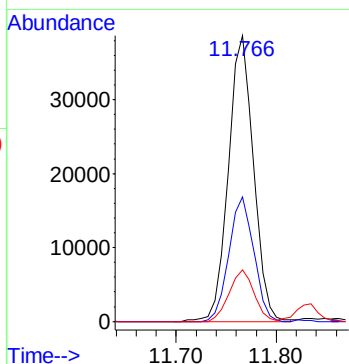
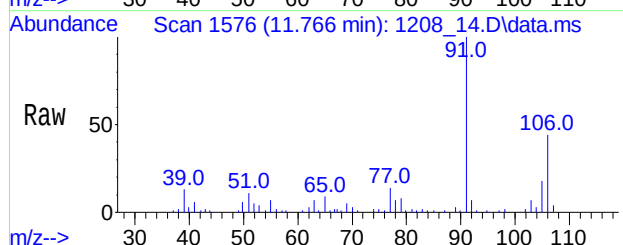
#59  
Styrene  
Conc: 8\$ 0.617 ppbv  
RT: 11.828 min Scan# 1585  
Delta R.T. 0.010 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

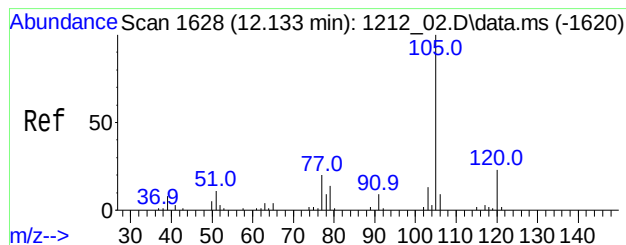
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 104     | 100   | 40781 |       |       |
| 78      | 51.7  | 16.6  |       | 24.8# |
| 51      | 26.8  | 0.0   |       | 0.0#  |



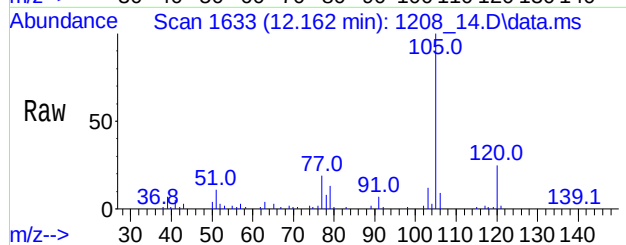
#61  
o-Xylene  
Conc: 8\$ 0.666 ppbv  
RT: 11.766 min Scan# 1576  
Delta R.T. 0.024 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 67317 |       |       |
| 106     | 43.1  | 43.0  |       | 64.4  |
| 105     | 17.9  | 15.4  |       | 23.0  |

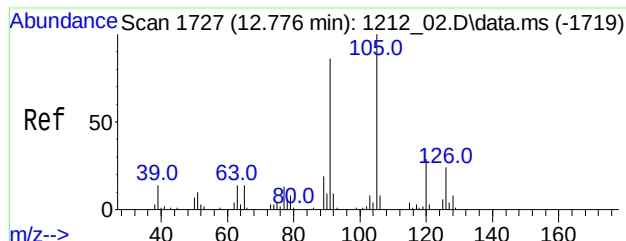
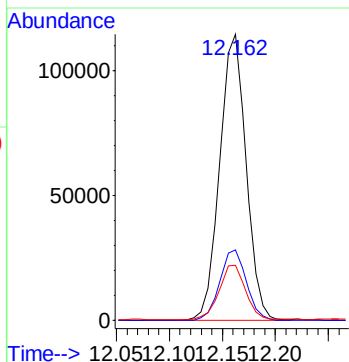
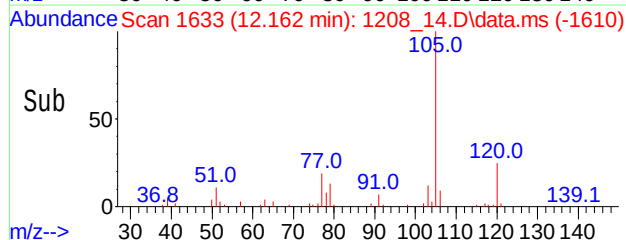




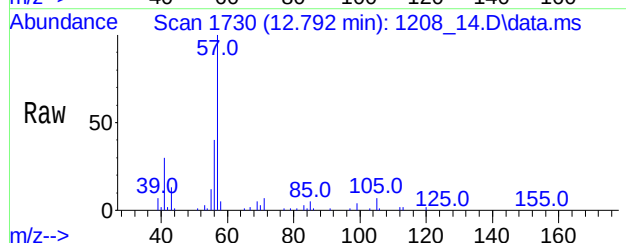
#64  
Isopropylbenzene  
Conc: 8\$ 1.603 ppbv  
RT: 12.162 min Scan# 1633  
Delta R.T. 0.016 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm



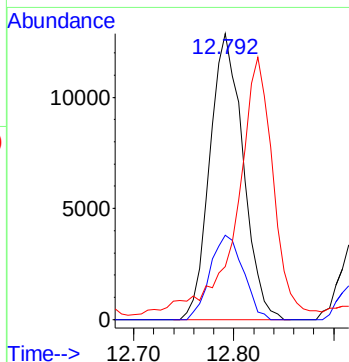
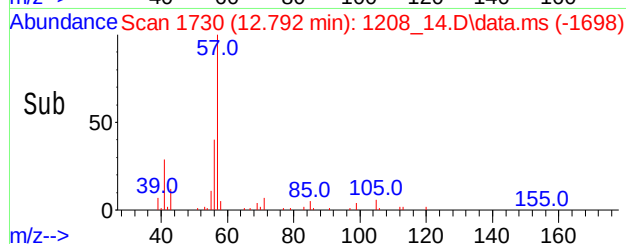
Tgt Ion: 105 Resp: 197346  
Ion Ratio Lower Upper  
105 100  
120 24.7 18.4 27.6  
77 19.2 14.2 21.2

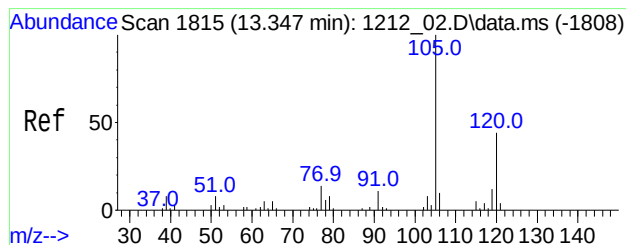


#66  
4-Ethyltoluene  
Conc: 8\$ 0.231 ppbv  
RT: 12.792 min Scan# 1730  
Delta R.T. 0.010 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm



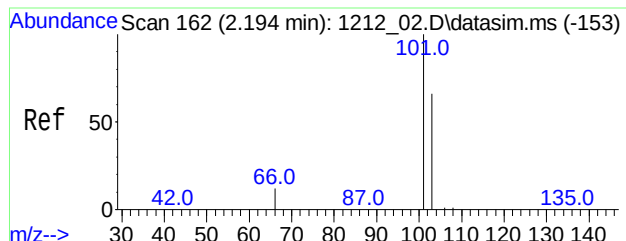
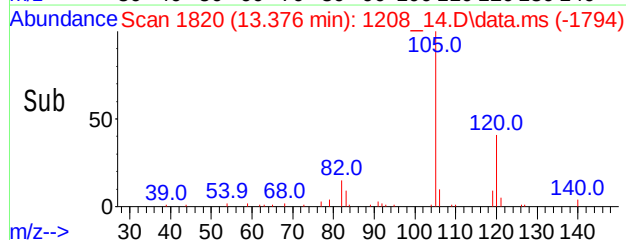
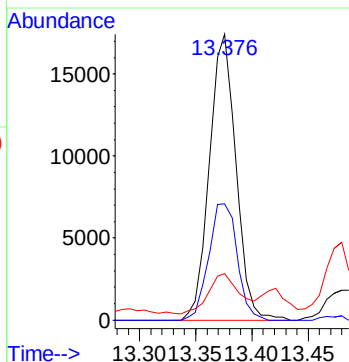
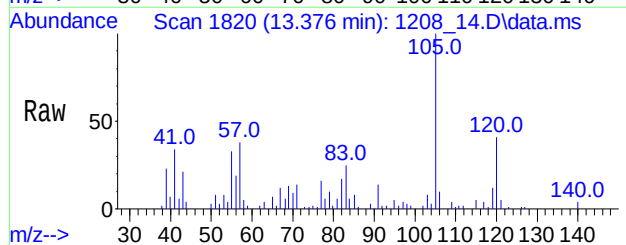
Tgt Ion: 105 Resp: 29622  
Ion Ratio Lower Upper  
105 100  
120 29.4 12.4 18.6#  
77 99.1 3.0 4.6#





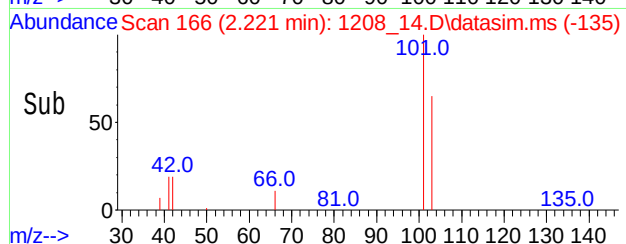
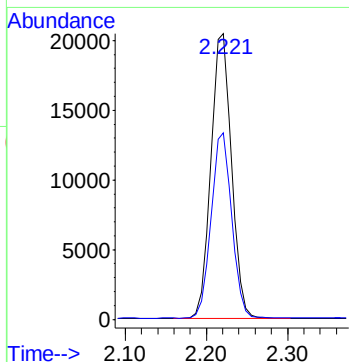
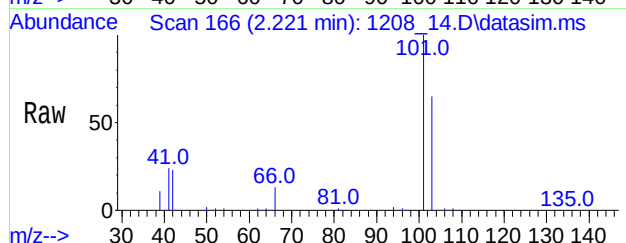
#68  
 1,2,4-Trimethylbenzene  
 Conc: 8\$ 0.263 ppbv  
 RT: 13.376 min Scan# 1820  
 Delta R.T. 0.016 min  
 Lab File: 1208\_14.D  
 Acq: 9 Dec 2019 1:14 pm

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 28497 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 43.6  | 33.8  | 50.6  |
| 77        | 16.6  | 5.3   | 7.9#  |

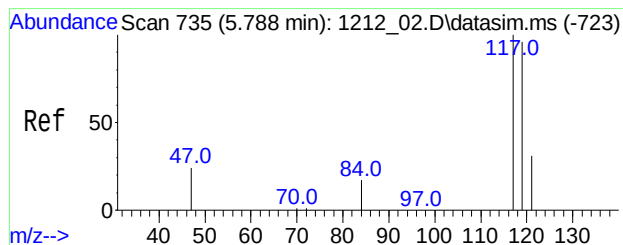


#84  
 Trichlorofluoromethane(sim)  
 Conc: 8\$ 0.214 ppbv  
 RT: 2.221 min Scan# 166  
 Delta R.T. 0.014 min  
 Lab File: 1208\_14.D  
 Acq: 9 Dec 2019 1:14 pm

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 101   | Resp: | 36057 |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 103       | 64.7  | 56.4  | 84.6  |

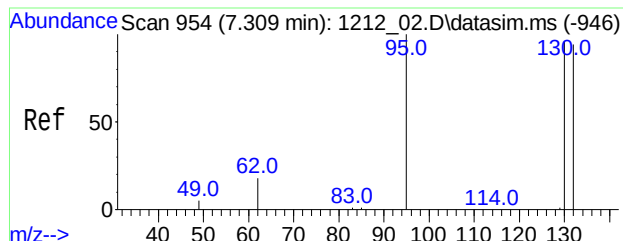
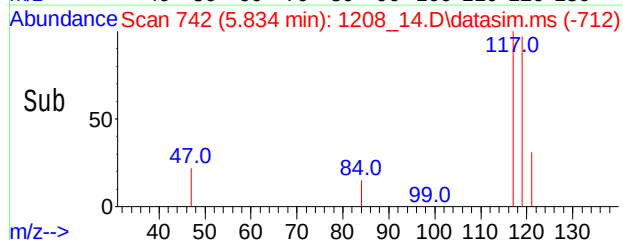
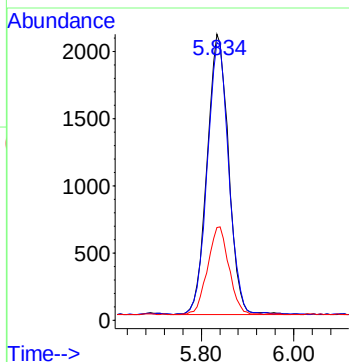
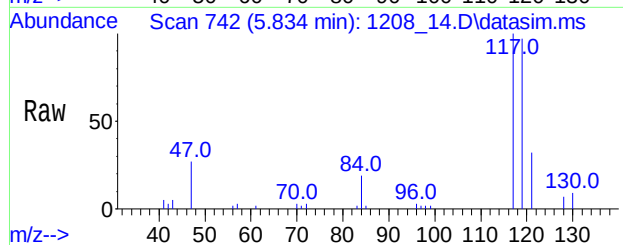






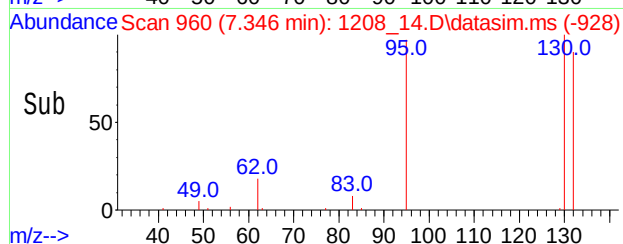
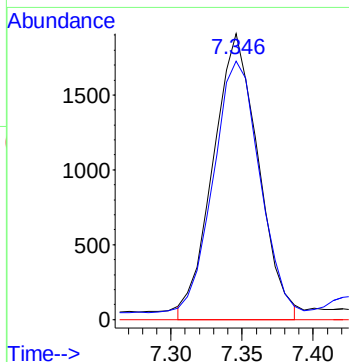
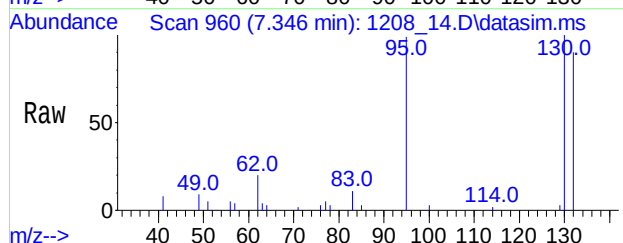
#86  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.060 ppbv  
RT: 5.834 min Scan# 742  
Delta R.T. 0.018 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

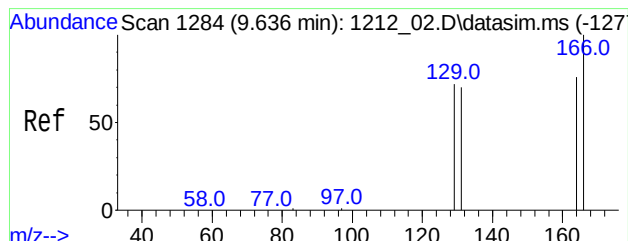
Tgt Ion: 117 Resp: 6686  
Ion Ratio Lower Upper  
117 100  
119 97.4 77.4 116.0  
121 31.3 25.4 38.2



#97  
Trichloroethene(sim)  
Conc: 8\$ 0.075 ppbv  
RT: 7.343 min Scan# 960  
Delta R.T. 0.014 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

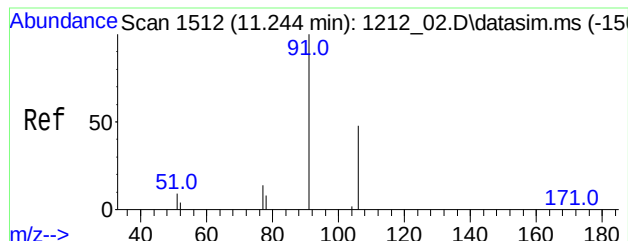
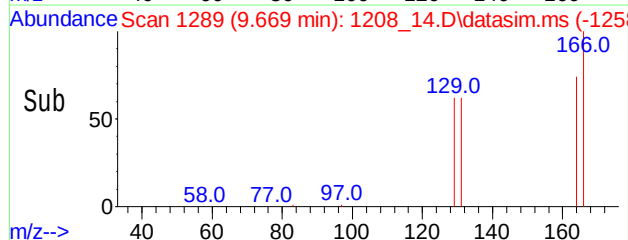
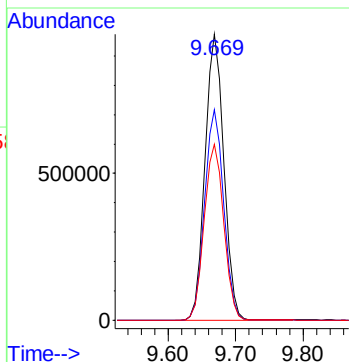
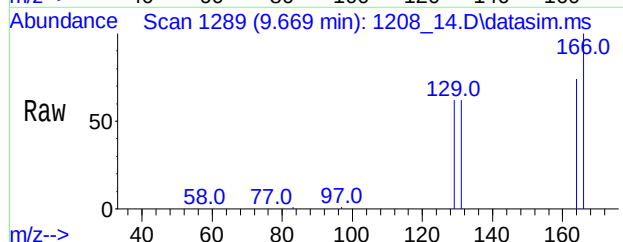
Tgt Ion: 130 Resp: 3720  
Ion Ratio Lower Upper  
130 100  
132 102.1 72.0 108.0  
97 76.2 34.1 51.1#





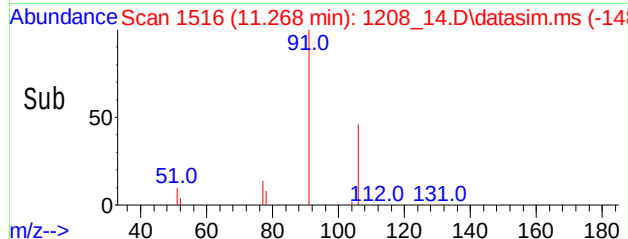
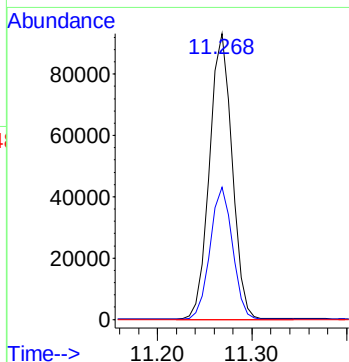
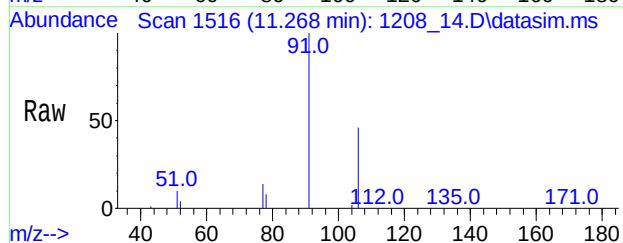
#103  
Tetrachloroethene(sim)  
Conc: 8\$ 27.575 ppbv  
RT: 9.666 min Scan# 1289  
Delta R.T. 0.018 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

Tgt Ion: 166 Resp: 1846151  
Ion Ratio Lower Upper  
166 100  
164 78.6 31.9 71.9#  
129 72.1 58.6 98.6



#107  
m,p-Xylene(sim)  
Conc: 8\$ 1.596 ppbv  
RT: 11.265 min Scan# 1516  
Delta R.T. 0.017 min  
Lab File: 1208\_14.D  
Acq: 9 Dec 2019 1:14 pm

Tgt Ion: 91 Resp: 141449  
Ion Ratio Lower Upper  
91 100  
106 45.4 38.1 46.5  
105 20.4 10.8 16.2#



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

HAIR SALON VP-4

|              |          |                  |                   |
|--------------|----------|------------------|-------------------|
| Client:      | CEG      | Lab:             | Phoenix Env. Labs |
| SDG No.:     | GCE81145 | Lab Sample ID:   | CE81151           |
| Canister:    | 28581    | Lab File ID:     | 1208_12.D         |
| Instrument:  | CHEM24   | Column:          | RTX-VMS           |
|              |          | Date Received:   | 12/05/19          |
| Purge Volume | 200 (cc) | Date Analyzed:   | 12/09/19          |
| Matrix:      | AIR      | Dilution Factor: | 1                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                           | CONC. | Q  | MDL   | PQL   | R |
|-------------|------------------------------------|-------|----|-------|-------|---|
| 115-07-1    | Propylene                          | 0.581 | U  | 0.581 | 0.581 | r |
| 75-71-8     | Dichlorodifluoromethane            | 0.566 |    | 0.202 | 0.202 | r |
| 74-87-3     | Chloromethane                      | 0.529 |    | 0.485 | 0.485 | r |
| 106-99-0    | 1,3-Butadiene                      | 0.452 | U  | 0.452 | 0.452 | r |
| 75-00-3     | Chloroethane                       | 0.379 | U  | 0.379 | 0.379 | r |
| 64-17-5     | Ethanol                            | 80.2  | ES | 0.531 | 0.531 | r |
| 67-64-1     | Acetone                            | 13.4  | S  | 0.421 | 0.421 | r |
| 75-69-4     | Trichlorofluoromethane             | 0.272 |    | 0.178 | 0.178 | r |
| 67-63-0     | Isopropylalcohol                   | 1.84  | S  | 0.407 | 0.407 | r |
| 107-13-1    | Acrylonitrile                      | 0.461 | U  | 0.461 | 0.461 | r |
| 75-09-2     | Methylene Chloride                 | 2.02  | S  | 0.864 | 0.864 | r |
| 75-15-0     | Carbon Disulfide                   | 0.321 | U  | 0.321 | 0.321 | r |
| 1634-04-4   | Methyl tert-butyl ether(MTBE)      | 0.278 | U  | 0.278 | 0.278 | r |
| 78-93-3     | Methyl Ethyl Ketone                | 1.44  |    | 0.339 | 0.339 | r |
| 110-54-3    | Hexane                             | 1.19  | S  | 0.284 | 0.284 | r |
| 141-78-6    | Ethyl acetate                      | 0.278 | U  | 0.278 | 0.278 | r |
| 109-99-9    | Tetrahydrofuran                    | 1.93  |    | 0.339 | 0.339 | r |
| 71-43-2     | Benzene                            | 0.313 | U  | 0.313 | 0.313 | r |
| 110-82-7    | Cyclohexane                        | 0.291 | U  | 0.291 | 0.291 | r |
| 142-82-5    | Heptane                            | 0.244 | U  | 0.244 | 0.244 | r |
| 108-10-1    | 4-Methyl-2-pentanone(MIBK)         | 0.244 | U  | 0.244 | 0.244 | r |
| 10061-02-6  | trans-1,3-Dichloropropene          | 0.221 | U  | 0.221 | 0.221 | r |
| 108-88-3    | Toluene                            | 4.10  |    | 0.266 | 0.266 | r |
| 591-78-6    | 2-Hexanone(MBK)                    | 0.244 | U  | 0.244 | 0.244 | r |
| 127-18-4    | Tetrachloroethene                  | 1.86  |    | 0.037 | 0.037 | r |
| 108-90-7    | Chlorobenzene                      | 0.217 | U  | 0.217 | 0.217 | r |
| 100-41-4    | Ethylbenzene                       | 0.453 |    | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene                         | 1.64  |    | 0.230 | 0.230 | r |
| 100-42-5    | Styrene                            | 0.531 |    | 0.235 | 0.235 | r |
| 95-47-6     | o-Xylene                           | 0.592 |    | 0.230 | 0.230 | r |
| 98-82-8     | Isopropylbenzene                   | 1.05  |    | 0.204 | 0.204 | r |
| 622-96-8    | 4-Ethyltoluene                     | 0.214 |    | 0.204 | 0.204 | r |
| 108-67-8    | 1,3,5-Trimethylbenzene             | 0.204 | U  | 0.204 | 0.204 | r |
| 95-63-6     | 1,2,4-Trimethylbenzene             | 0.204 | U  | 0.204 | 0.204 | r |
| 76-14-2     | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U  | 0.143 | 0.143 | r |
| 75-01-4     | Vinyl Chloride(sim)                | 0.078 | U  | 0.078 | 0.078 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

HAIR SALON VP-4

|              |                 |                  |                          |
|--------------|-----------------|------------------|--------------------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CE81151</u>           |
| Canister:    | <u>28581</u>    | Lab File ID:     | <u>1208_12.D</u>         |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u>RTX-VMS</u>           |
|              |                 | Date Received:   | <u>12/05/19</u>          |
| Purge Volume | <u>200</u> (cc) | Date Analyzed:   | <u>12/09/19</u>          |
| Matrix:      | <u>AIR</u>      | Dilution Factor: | <u>1</u>                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|------------|--------------------------------|-------|---|-------|-------|---|
| 74-83-9    | Bromomethane(sim)              | 0.258 | U | 0.258 | 0.258 | r |
| 71-55-6    | 1,1,1-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 56-23-5    | Carbon Tetrachloride(sim)      | 0.073 |   | 0.032 | 0.032 | r |
| 75-35-4    | 1,1-Dichloroethene(sim)        | 0.051 | U | 0.051 | 0.051 | r |
| 76-13-1    | Trichlorotrifluoroethane(sim)  | 0.131 | U | 0.131 | 0.131 | r |
| 156-60-5   | Trans-1,2-Dichloroethene(sim)  | 0.252 | U | 0.252 | 0.252 | r |
| 75-34-3    | 1,1-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 156-59-2   | Cis-1,2-Dichloroethene(sim)    | 0.051 | U | 0.051 | 0.051 | r |
| 67-66-3    | Chloroform(sim)                | 0.205 | U | 0.205 | 0.205 | r |
| 107-06-2   | 1,2-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 78-87-5    | 1,2-dichloropropane(sim)       | 0.217 | U | 0.217 | 0.217 | r |
| 75-27-4    | Bromodichloromethane(sim)      | 0.149 | U | 0.149 | 0.149 | r |
| 79-01-6    | Trichloroethene(sim)           | 0.121 |   | 0.037 | 0.037 | r |
| 123-91-1   | 1,4-Dioxane(sim)               | 0.278 | U | 0.278 | 0.278 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim)   | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5    | 1,1,2-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1   | Dibromochloromethane(sim)      | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4   | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2    | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6   | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 79-34-5    | 1,1,2,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 100-44-7   | Benzyl chloride(sim)           | 0.193 | U | 0.193 | 0.193 | r |
| 541-73-1   | 1,3-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 106-46-7   | 1,4-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 135-98-8   | sec-Butylbenzene(sim)          | 0.182 | U | 0.182 | 0.182 | r |
| 99-87-6    | 4-Isopropyltoluene(sim)        | 0.182 | U | 0.182 | 0.182 | r |
| 95-50-1    | 1,2-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 104-51-8   | n-Butylbenzene(sim)            | 0.182 | U | 0.182 | 0.182 | r |
| 120-82-1   | 1,2,4-Trichlorobenzene(sim)    | 0.135 | U | 0.135 | 0.135 | r |
| 87-68-3    | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_12.D  
 Acq On : 9 Dec 2019 11:23 am  
 Operator : Keith  
 Client ID : HAIR SALON VP-4  
 Lab ID : CE81151  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 09 12:03:16 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

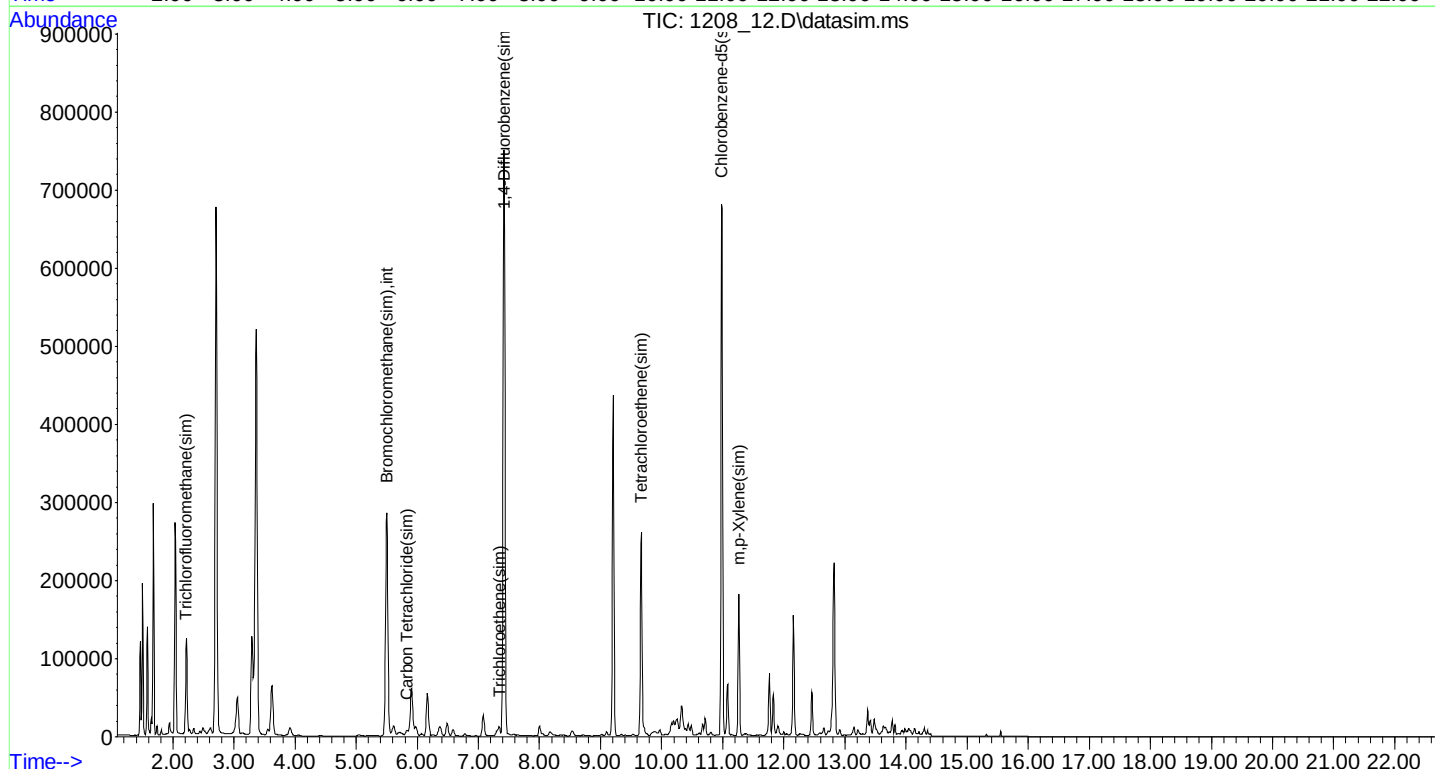
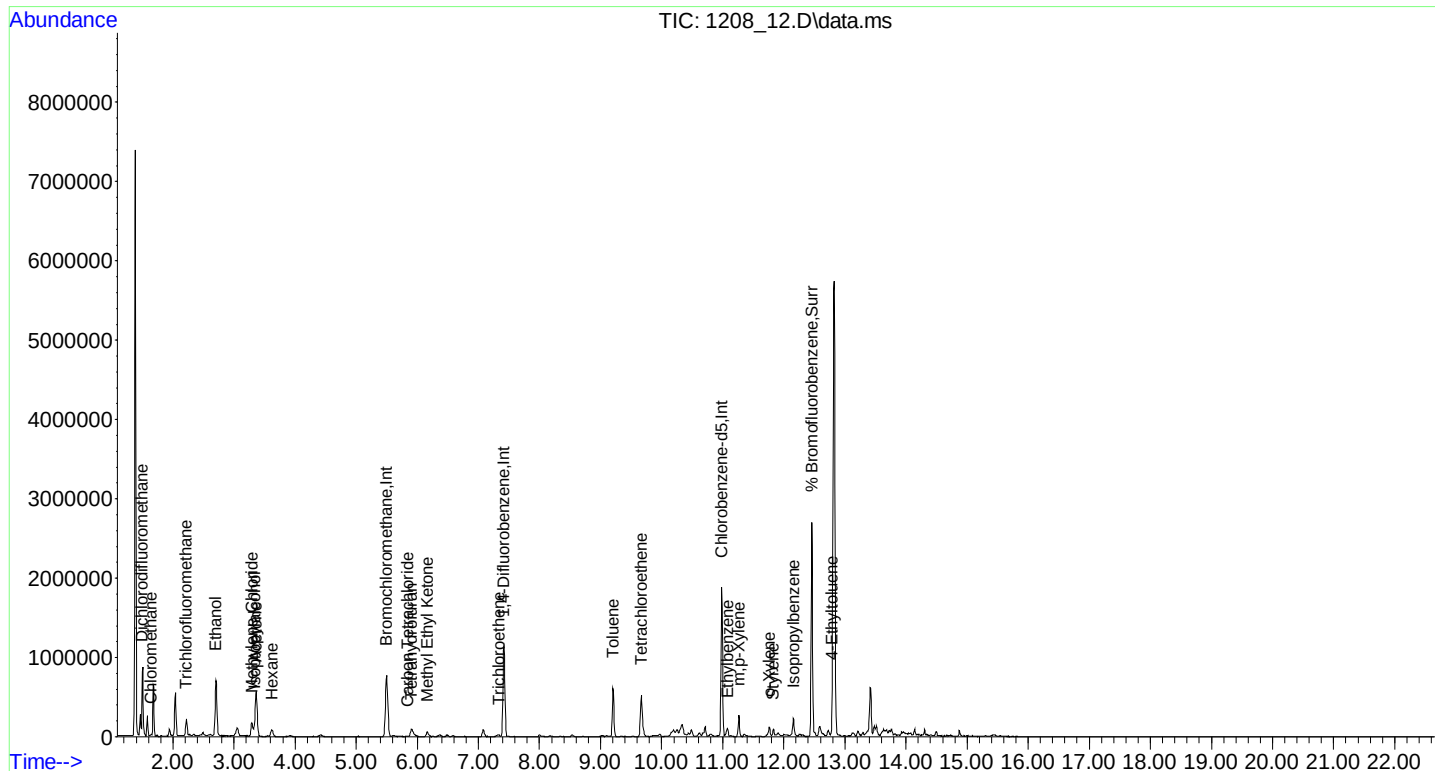
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.499  | 130   | 382562   | 10.000   | ng     | 0.02     |
| 36) 1,4-Difluorobenzene       | 7.418  | 114   | 1060015  | 10.000   | ng     | 0.02     |
| 53) Chlorobenzene-d5          | 10.984 | 82    | 563819   | 10.000   | ng     | 0.02     |
| 80) Bromochloromethane(sim)   | 5.502  | 130   | 395840   | 10.000   | ng     | # 0.02   |
| 94) 1,4-Difluorobenzene(sim)  | 7.421  | 114   | 1167366  | 10.000   | ng     | # 0.02   |
| 104) Chlorobenzene-d5(sim)    | 10.987 | 82    | 615192   | 10.000   | ng     | 0.02     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 12.461 | 95    | 809304   | 9.326    | ppbv   | 0.02     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 93.30%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane    | 1.499  | 101   | 9578     | 0.566    | ppbv#  | 64       |
| 4) Chloromethane              | 1.643  | 50    | 17208    | 0.529    | ppbv   | 93       |
| 10) Ethanol                   | 2.704  | 45    | 817766   | 80.191   | ppbv#  | 60       |
| 12) Acetone                   | 3.361  | 43    | 806658   | 13.357   | ppbv#  | 84       |
| 13) Trichlorofluoromethane    | 2.218  | 101   | 38778    | 0.272    | ppbv#  | 83       |
| 14) Isopropylalcohol          | 3.340  | 45    | 106770   | 1.836    | ppbv#  | 1        |
| 17) Methylene Chloride        | 3.292  | 49    | 88140    | 2.024    | ppbv#  | 77       |
| 25) Methyl Ethyl Ketone       | 6.162  | 43    | 90748    | 1.443    | ppbv#  | 47       |
| 27) Hexane                    | 3.621  | 57    | 50000    | 1.193    | ppbv#  | 65       |
| 30) Tetrahydrofuran           | 5.903  | 42    | 43566    | 1.926    | ppbv   | 100      |
| 34) Carbon Tetrachloride      | 5.838  | 117   | 8358     | 0.075    | ppbv   | 97       |
| 39) Trichloroethene           | 7.343  | 130   | 6143     | 0.113    | ppbv   | 97       |
| 48) Toluene                   | 9.204  | 91    | 448908   | 4.094    | ppbv   | 91       |
| 52) Tetrachloroethene         | 9.666  | 166   | 144842   | 1.857    | ppbv   | 95       |
| 56) Ethylbenzene              | 11.080 | 91    | 59436    | 0.453    | ppbv   | 88       |
| 57) m, p-Xylene               | 11.265 | 91    | 152872   | 1.636    | ppbv#  | 93       |
| 59) Styrene                   | 11.828 | 104   | 37608    | 0.531    | ppbv#  | 35       |
| 61) o-Xylene                  | 11.766 | 91    | 64149    | 0.592    | ppbv   | 89       |
| 64) Isopropylbenzene          | 12.156 | 105   | 138598   | 1.051    | ppbv   | 95       |
| 66) 4-Ethyltoluene            | 12.792 | 105   | 29365    | 0.214    | ppbv#  | 33       |
| 84) Trichlorofluoromethane... | 2.214  | 101   | 40238    | 0.232    | ppbv   | 93       |
| 86) Carbon Tetrachloride(sim) | 5.834  | 117   | 8296     | 0.073    | ppbv   | 100      |
| 97) Trichloroethene(sim)      | 7.343  | 130   | 6143     | 0.121    | ppbv#  | 73       |
| 103) Tetrachloroethene(sim)   | 9.666  | 166   | 144577   | 2.110    | ppbv#  | 81       |
| 107] m, p-Xylene(sim)         | 11.265 | 91    | 152961   | 1.589    | ppbv#  | 93       |

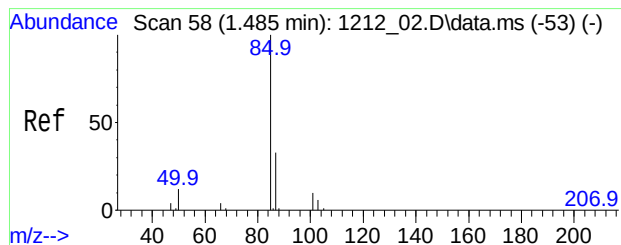
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_12.D  
 Acq On : 9 Dec 2019 11:23 am  
 Operator : Keith  
 Client ID : HAIR SALON VP-4  
 Lab ID : CE81151  
 ALS Vial : 13 Sample Multiplier: 1

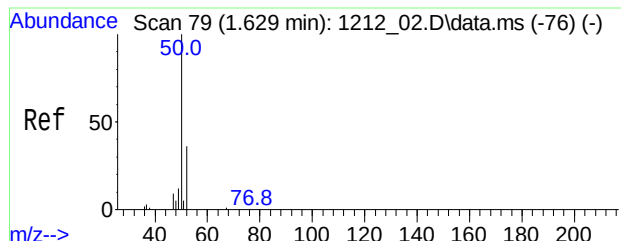
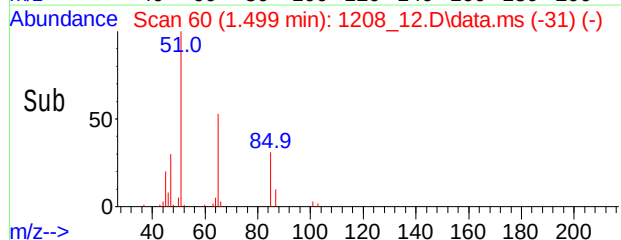
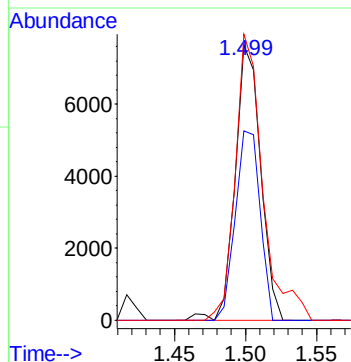
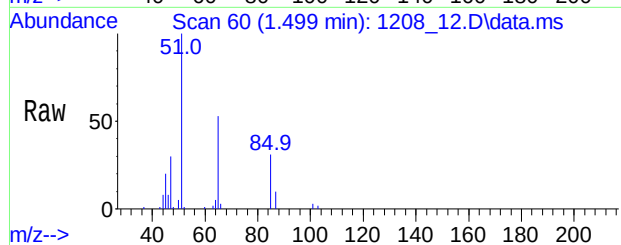
Quant Time: Dec 09 12:03:16 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration





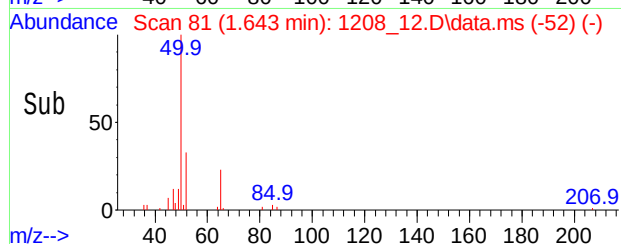
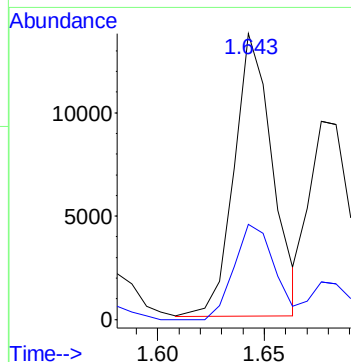
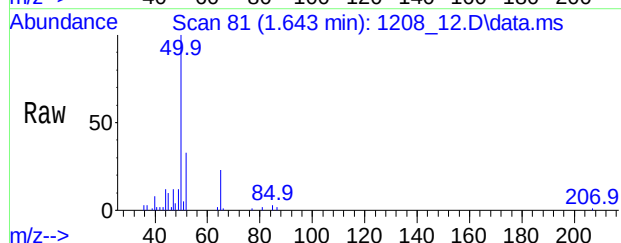
#3  
Dichlorodifluoromethane  
Conc: 8\$ 0.566 ppbv  
RT: 1.499 min Scan# 60  
Delta R.T. -0.000 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

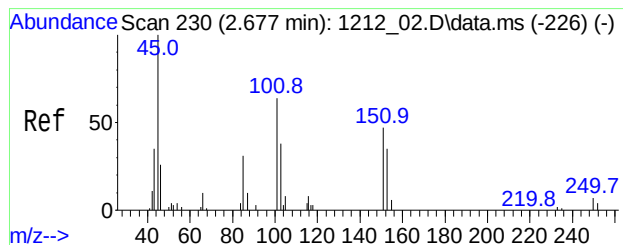
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 101     | 100   | 9578 |       |       |
| 103     | 66.7  | 55.7 | 83.5  |       |
| 66      | 111.8 | 45.1 | 67.7# |       |



#4  
Chloromethane  
Conc: 8\$ 0.529 ppbv  
RT: 1.643 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

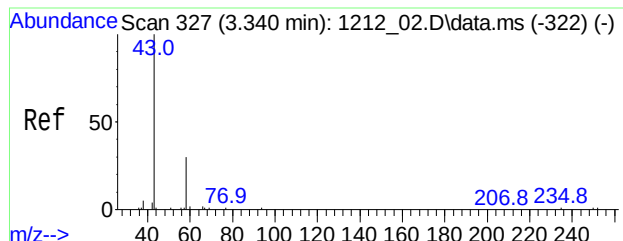
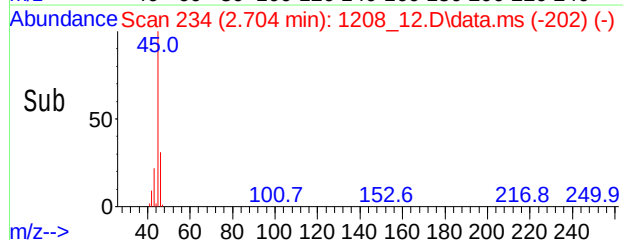
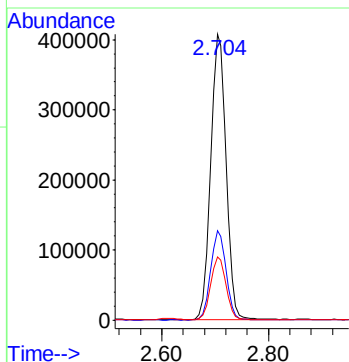
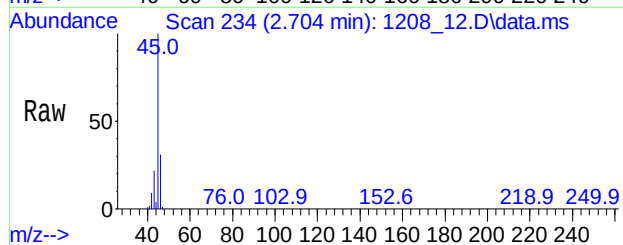
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 50      | 100   | 17208 |       |       |
| 52      | 35.2  | 11.1  | 51.1  |       |





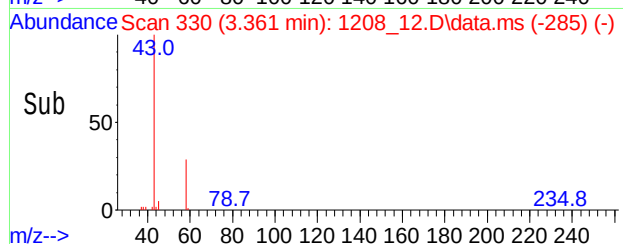
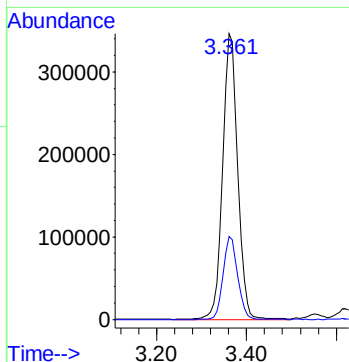
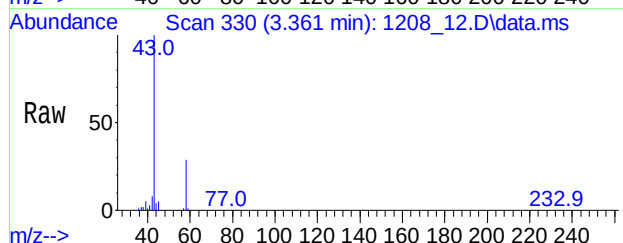
#10  
Ethanol  
Conc: 8\$ 80.191 ppbv  
RT: 2.704 min Scan# 234  
Delta R.T. 0.020 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

Tgt Ion: 45 Resp: 817766  
Ion Ratio Lower Upper  
45 100  
46 31.3 5.9 8.9#  
43 21.8 35.8 53.8#

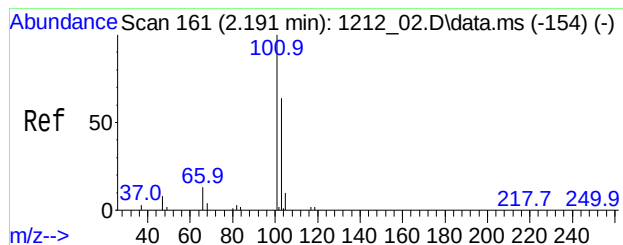


#12  
Acetone  
Conc: 8\$ 13.357 ppbv  
RT: 3.361 min Scan# 330  
Delta R.T. 0.007 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

Tgt Ion: 43 Resp: 806658  
Ion Ratio Lower Upper  
43 100  
58 27.9 16.3 24.5#

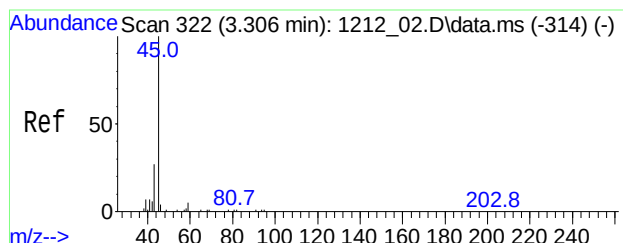
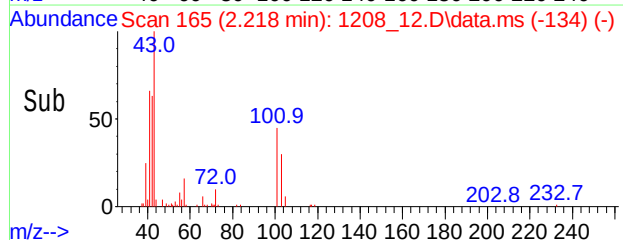
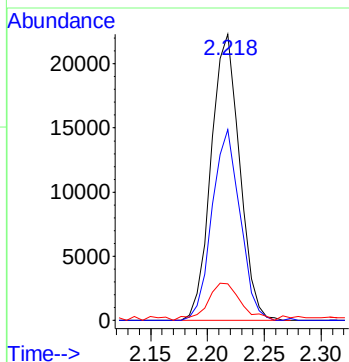
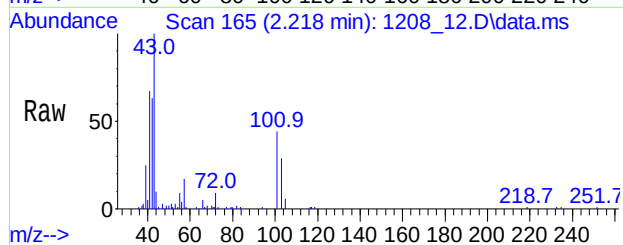






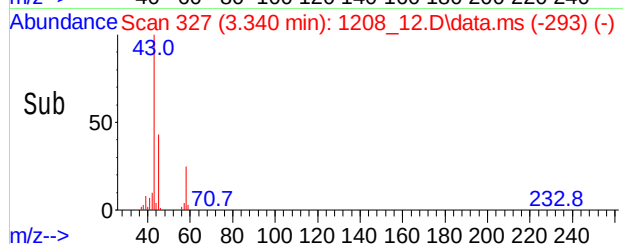
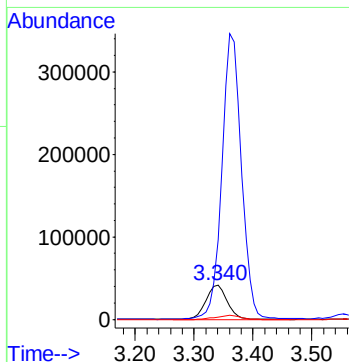
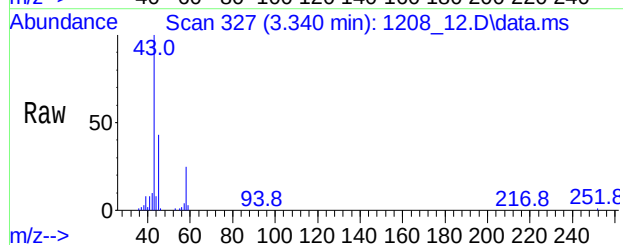
#13  
Trichlorofluoromethane  
Conc: 8\$ 0.272 ppbv  
RT: 2.218 min Scan# 165  
Delta R.T. 0.014 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

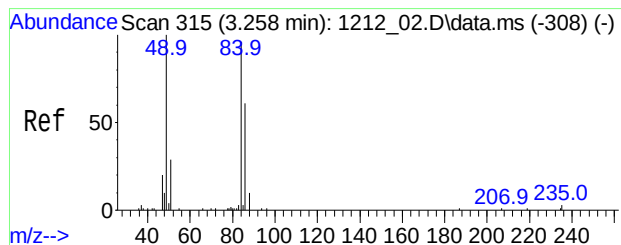
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 101     | 100   | 38778 |       |       |
| 103     | 65.3  | 60.1  | 90.1  |       |
| 66      | 14.8  | 25.4  | 38.0# |       |



#14  
Isopropylalcohol  
Conc: 8\$ 1.836 ppbv  
RT: 3.340 min Scan# 327  
Delta R.T. 0.034 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

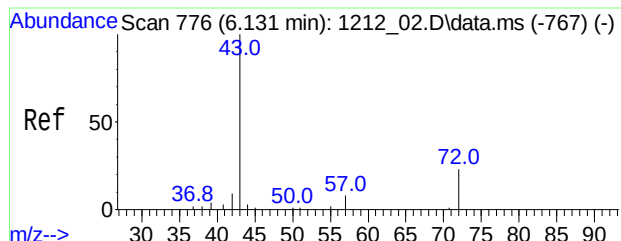
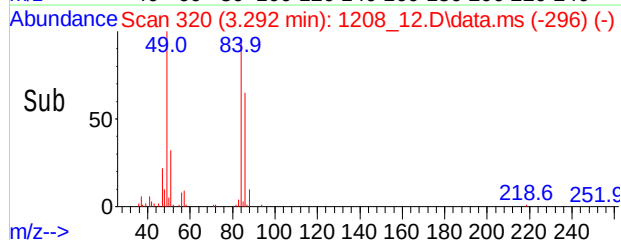
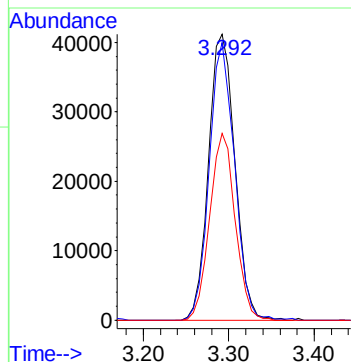
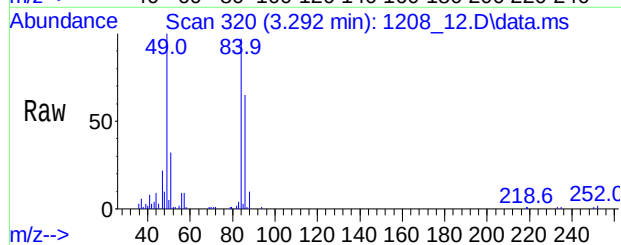
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 45      | 100   | 106770 |       |       |
| 43      | 755.5 | 29.8   | 44.8# |       |
| 59      | 13.1  | 0.0    | 0.0#  |       |





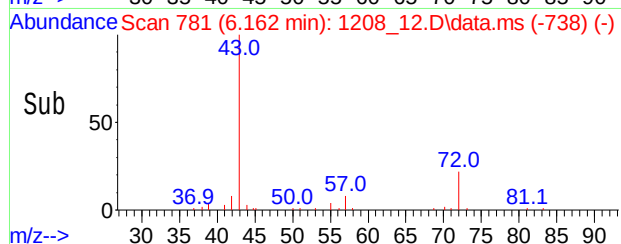
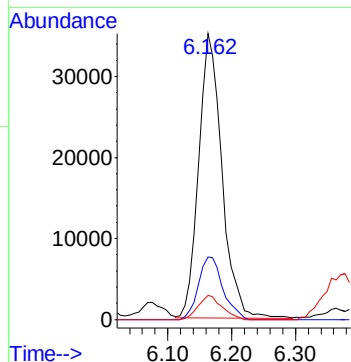
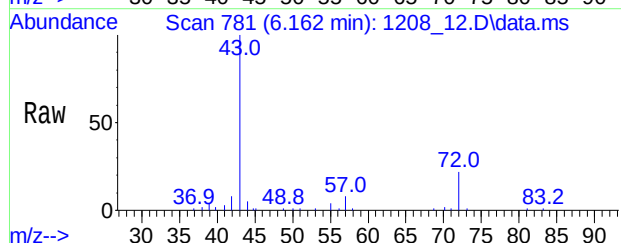
#17  
Methylene Chloride  
Conc: 8\$ 2.024 ppbv  
RT: 3.292 min Scan# 320  
Delta R.T. 0.013 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

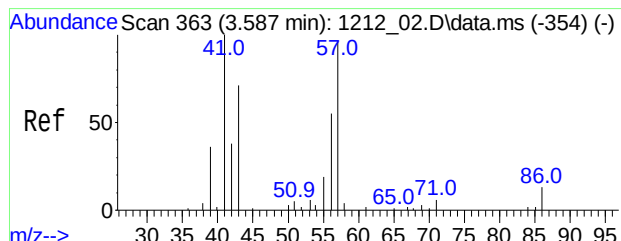
Tgt Ion: 49 Resp: 88140  
Ion Ratio Lower Upper  
49 100  
84 93.3 60.3 90.5#  
86 63.1 35.9 53.9#



#25  
Methyl Ethyl Ketone  
Conc: 8\$ 1.443 ppbv  
RT: 6.162 min Scan# 781  
Delta R.T. 0.010 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

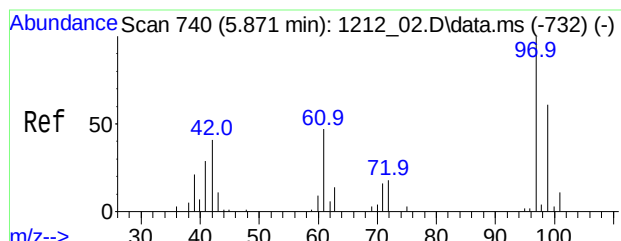
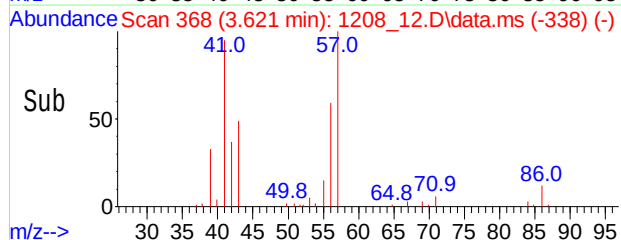
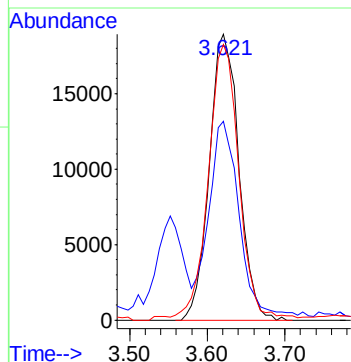
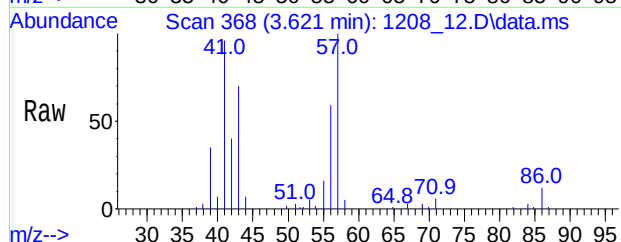
Tgt Ion: 43 Resp: 90748  
Ion Ratio Lower Upper  
43 100  
72 24.2 5.0 7.4#  
57 9.2 0.0 0.0#





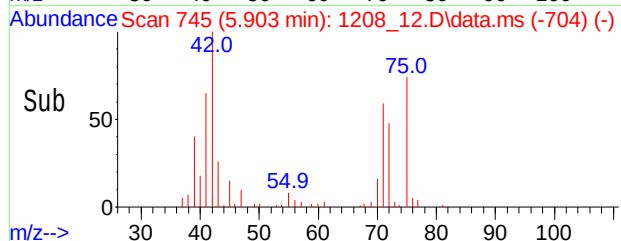
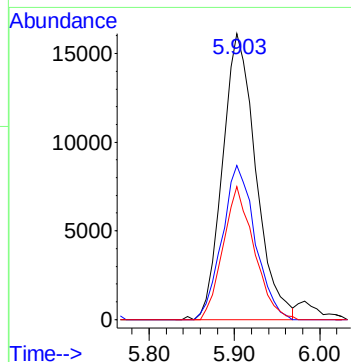
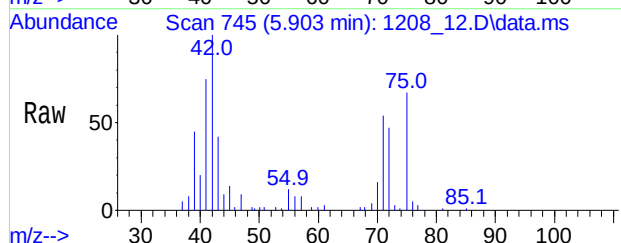
#27  
Hexane  
Conc: 8\$ 1.193 ppbv  
RT: 3.621 min Scan# 368  
Delta R.T. 0.007 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

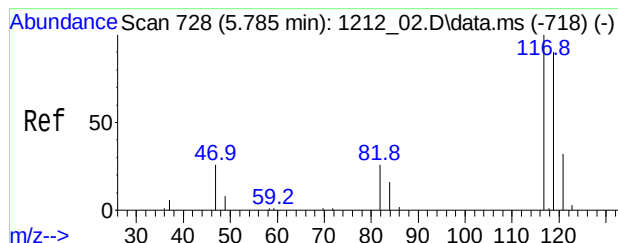
| Tgt Ion | Ratio | Resp  | Lower | Upper  |
|---------|-------|-------|-------|--------|
| 57      | 100   | 50000 |       |        |
| 43      | 69.7  | 44.1  |       | 66.1#  |
| 41      | 96.5  | 118.4 |       | 177.6# |



#30  
Tetrahydrofuran  
Conc: 8\$ 1.926 ppbv  
RT: 5.903 min Scan# 745  
Delta R.T. -0.004 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

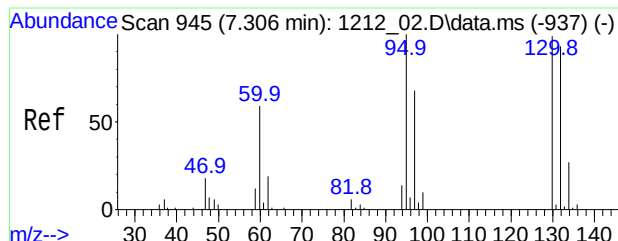
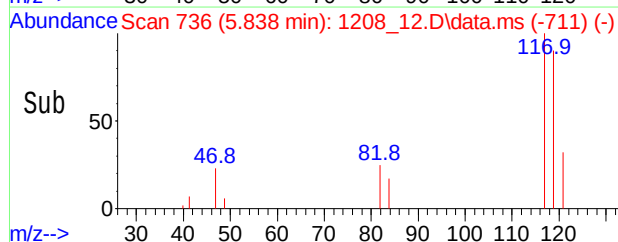
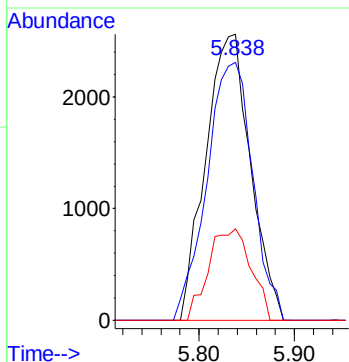
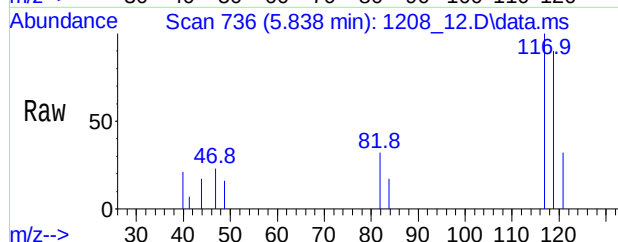
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 42      | 100   | 43566 |       |       |
| 71      | 53.6  | 0.0   |       | 0.0#  |
| 72      | 43.5  | 0.0   |       | 0.0#  |





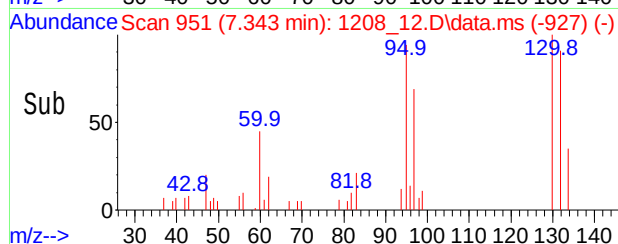
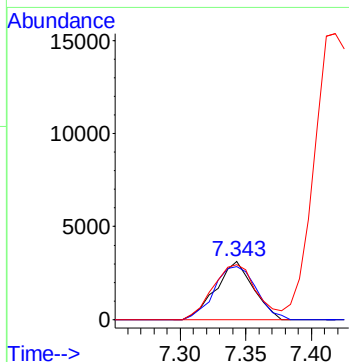
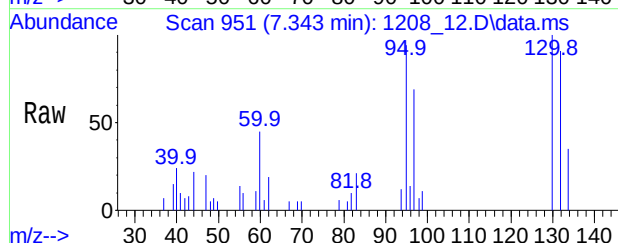
#34  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 5.838 min Scan# 736  
Delta R.T. 0.032 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

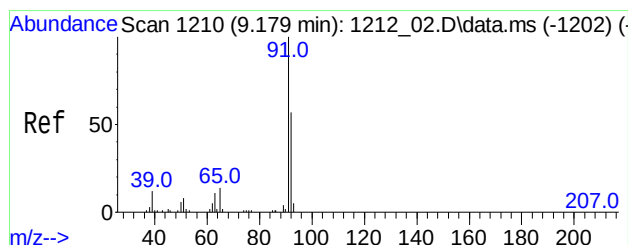
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 8358 |       |       |
| 119     | 92.4  | 75.6 | 115.6 |       |
| 121     | 30.1  | 11.2 | 51.2  |       |



#39  
Trichloroethene  
Conc: 8\$ Below Cal  
RT: 7.343 min Scan# 951  
Delta R.T. 0.017 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

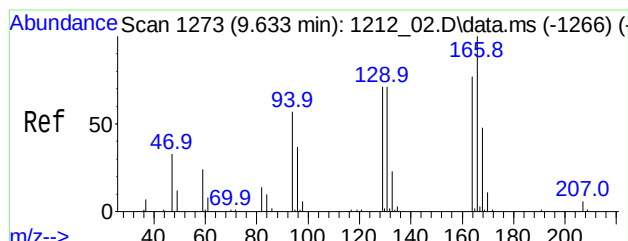
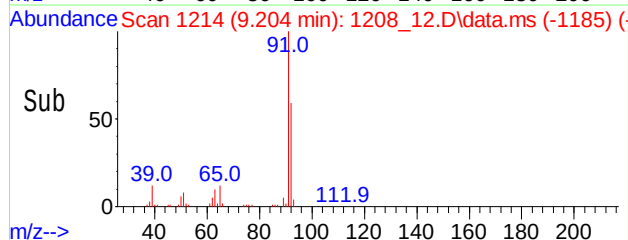
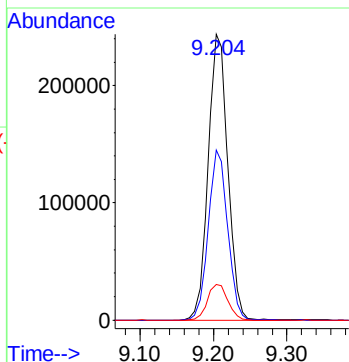
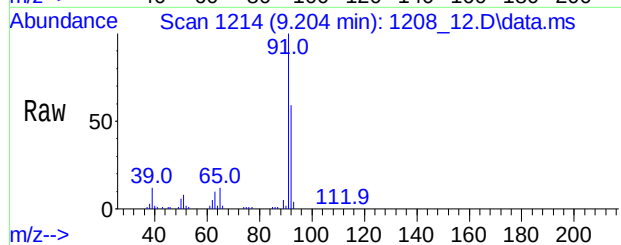
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 130     | 100   | 6143 |       |       |
| 132     | 102.9 | 84.4 | 126.6 |       |
| 95      | 110.8 | 0.0  | 0.0#  |       |





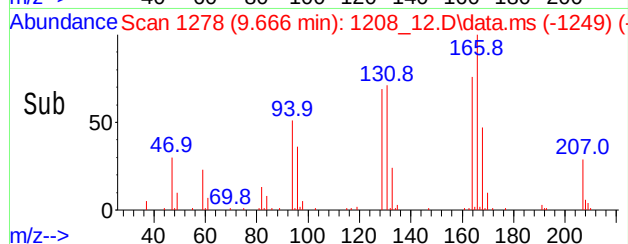
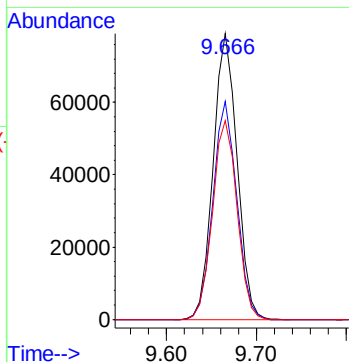
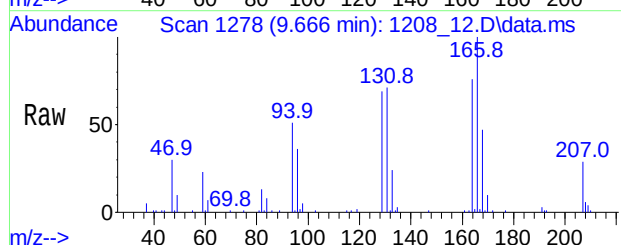
#48  
Toluene  
Conc: 8\$ 4.094 ppbv  
RT: 9.204 min Scan# 1214  
Delta R.T. 0.011 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

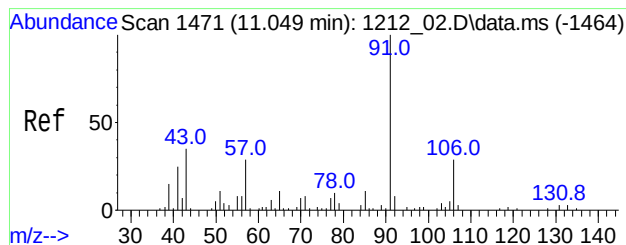
Tgt Ion: 91 Resp: 448908  
Ion Ratio Lower Upper  
91 100  
92 58.8 52.6 79.0  
65 13.0 0.0 0.0#



#52  
Tetrachloroethene  
Conc: 8\$ 1.857 ppbv  
RT: 9.666 min Scan# 1278  
Delta R.T. 0.011 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

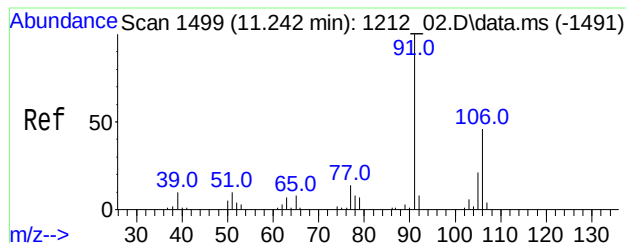
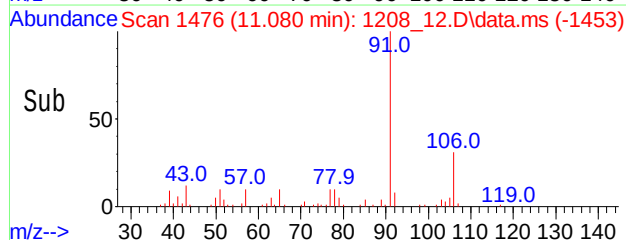
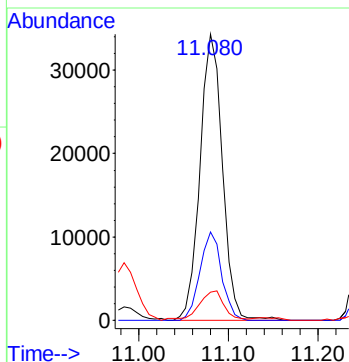
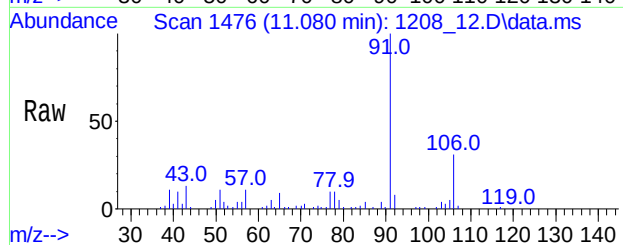
Tgt Ion: 166 Resp: 144842  
Ion Ratio Lower Upper  
166 100  
164 76.5 58.9 88.3  
129 71.2 53.3 79.9





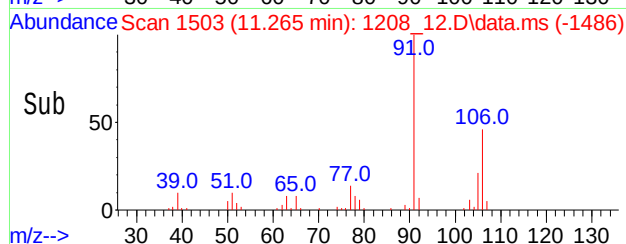
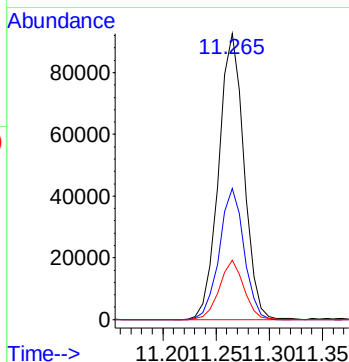
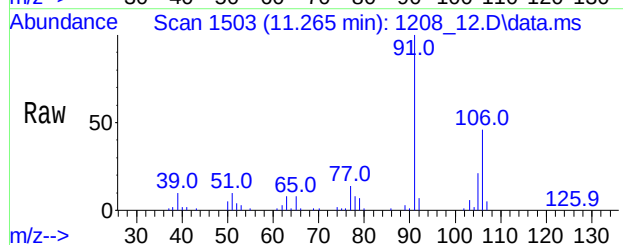
#56  
Ethylbenzene  
Conc: 8\$ 0.453 ppbv  
RT: 11.080 min Scan# 1476  
Delta R.T. 0.010 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

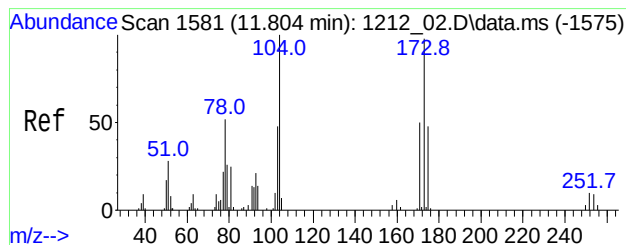
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 59436 |       |       |
| 106     | 29.7  | 4.0   | 44.0  |       |
| 77      | 11.4  | 0.0   | 20.0  |       |



#57  
m,p-Xylene  
Conc: 8\$ 1.636 ppbv  
RT: 11.265 min Scan# 1503  
Delta R.T. 0.017 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

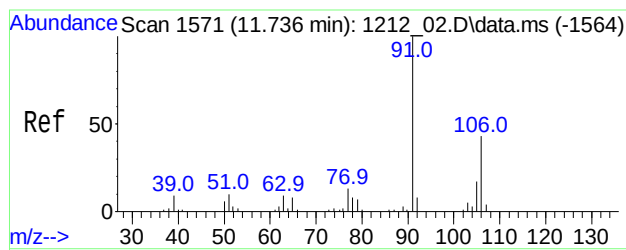
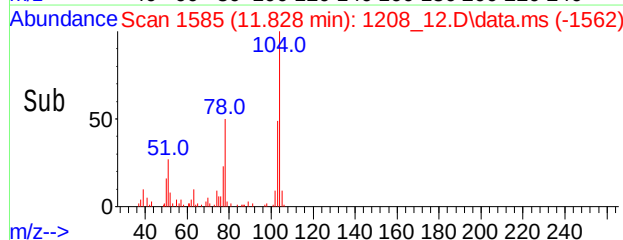
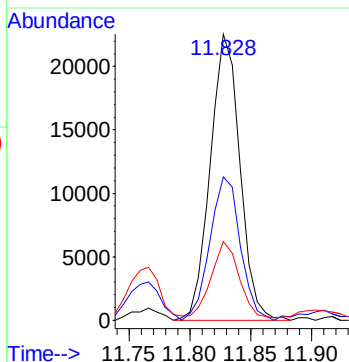
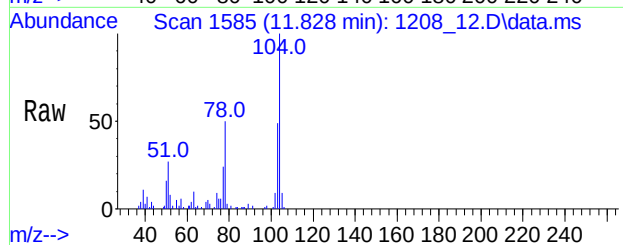
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 152872 |       |       |
| 106     | 44.7  | 33.8   | 50.8  |       |
| 105     | 19.9  | 10.8   | 16.2# |       |





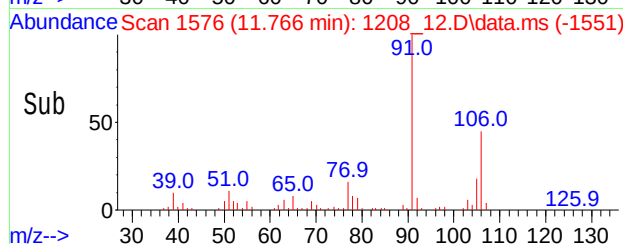
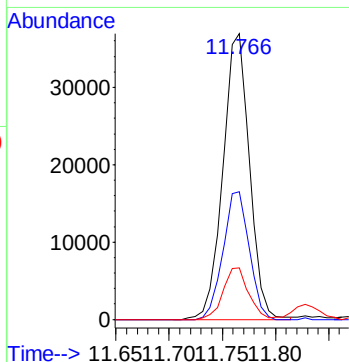
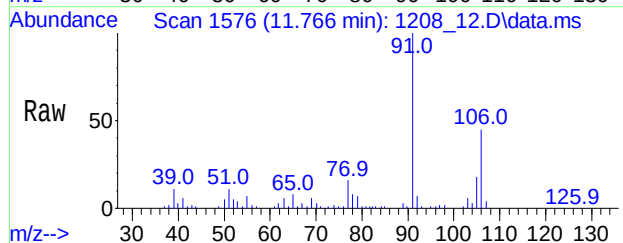
#59  
Styrene  
Conc: 8\$ 0.531 ppbv  
RT: 11.828 min Scan# 1585  
Delta R.T. 0.010 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

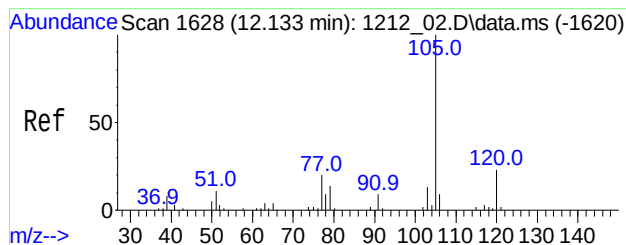
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 104     | 100   | 37608 |       |       |
| 78      | 51.2  | 16.6  |       | 24.8# |
| 51      | 25.2  | 0.0   |       | 0.0#  |



#61  
o-Xylene  
Conc: 8\$ 0.592 ppbv  
RT: 11.766 min Scan# 1576  
Delta R.T. 0.024 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

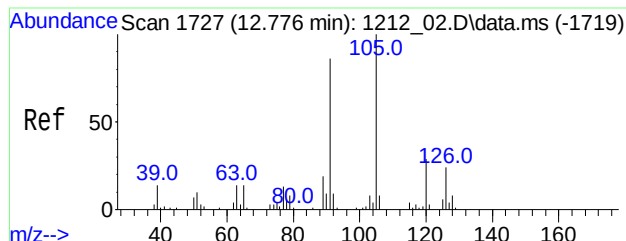
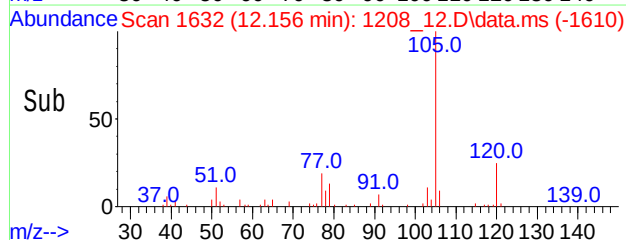
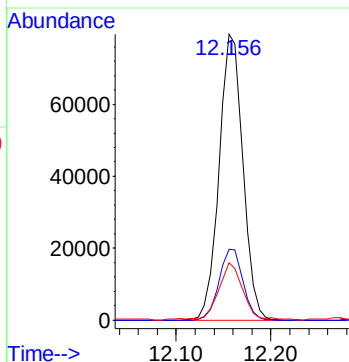
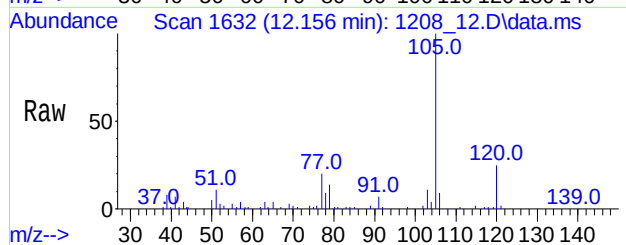
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 64149 |       |       |
| 106     | 44.1  | 43.0  |       | 64.4  |
| 105     | 17.5  | 15.4  |       | 23.0  |





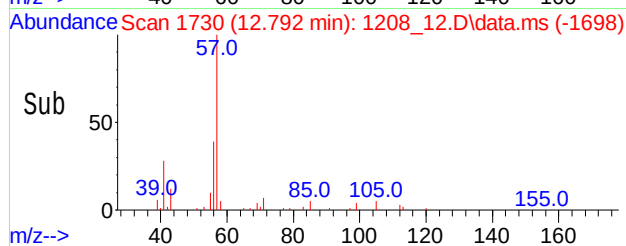
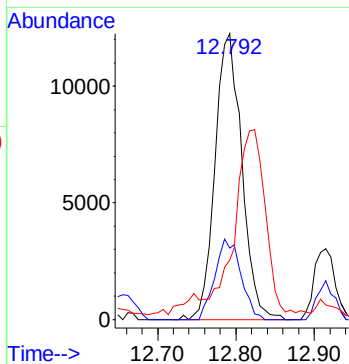
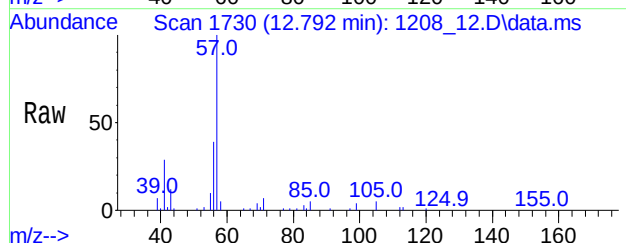
#64  
Isopropylbenzene  
Conc: 8\$ 1.051 ppbv  
RT: 12.156 min Scan# 1632  
Delta R.T. 0.010 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 24.9  | 18.4  | 27.6  |
| 77      | 20.3  | 14.2  | 21.2  |

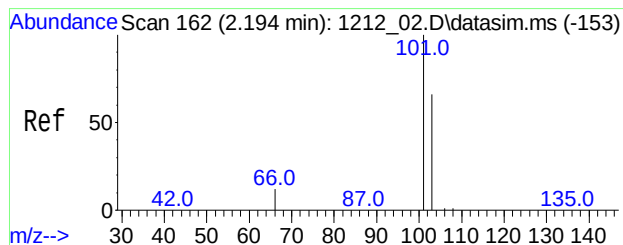


#66  
4-Ethyltoluene  
Conc: 8\$ 0.214 ppbv  
RT: 12.792 min Scan# 1730  
Delta R.T. 0.010 min  
Lab File: 1208\_12.D  
Acq: 9 Dec 2019 11:23 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 27.3  | 12.4  | 18.6# |
| 77      | 77.3  | 3.0   | 4.6#  |

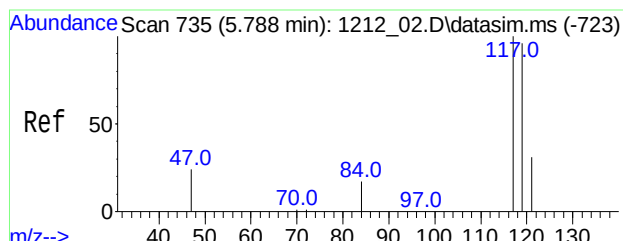
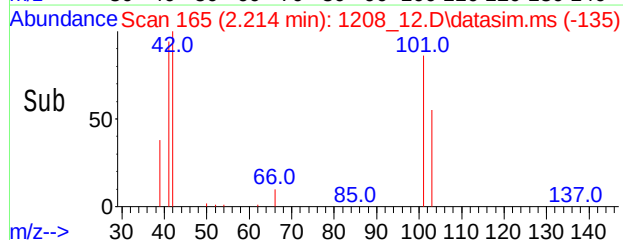
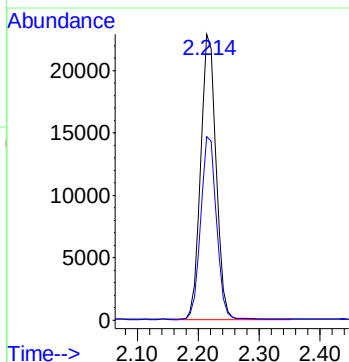
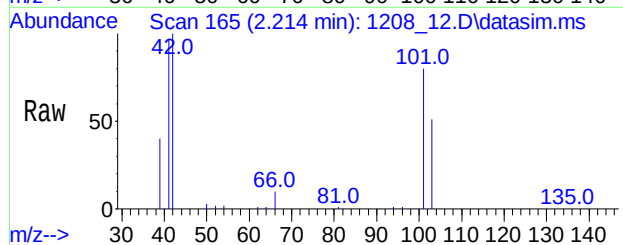






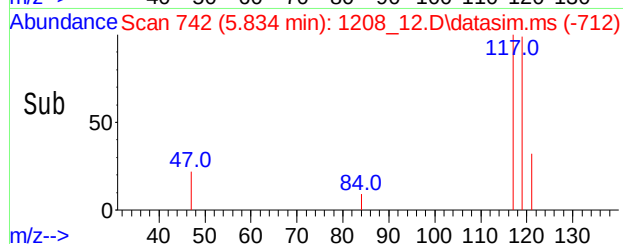
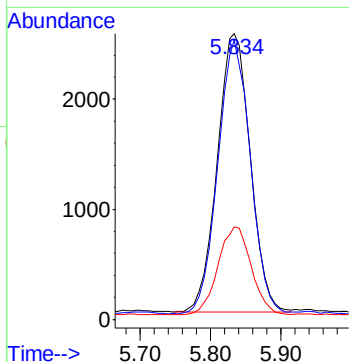
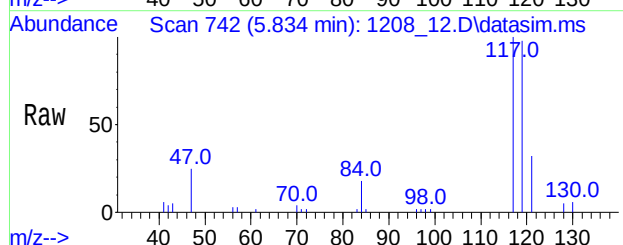
#84  
 Trichlorofluoromethane(sim)  
 Conc: 8\$ 0.232 ppbv  
 RT: 2.214 min Scan# 165  
 Delta R.T. 0.007 min  
 Lab File: 1208\_12.D  
 Acq: 9 Dec 2019 11:23 am

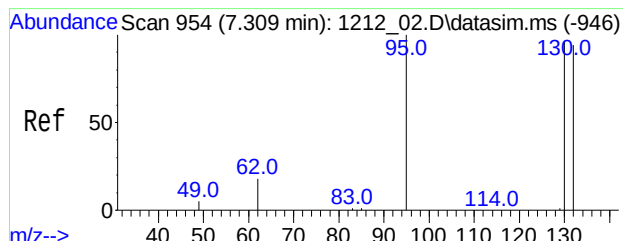
Tgt Ion: 101 Resp: 40238  
 Ion Ratio Lower Upper  
 101 100  
 103 65.1 56.4 84.6



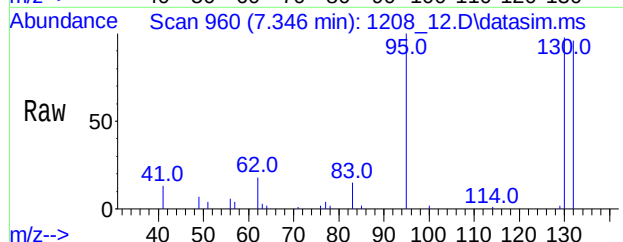
#86  
 Carbon Tetrachloride(sim)  
 Conc: 8\$ 0.073 ppbv  
 RT: 5.834 min Scan# 742  
 Delta R.T. 0.018 min  
 Lab File: 1208\_12.D  
 Acq: 9 Dec 2019 11:23 am

Tgt Ion: 117 Resp: 8296  
 Ion Ratio Lower Upper  
 117 100  
 119 96.7 77.4 116.0  
 121 31.8 25.4 38.2

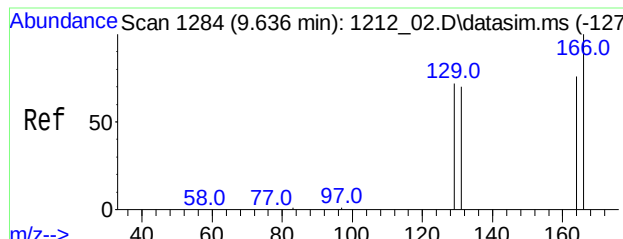
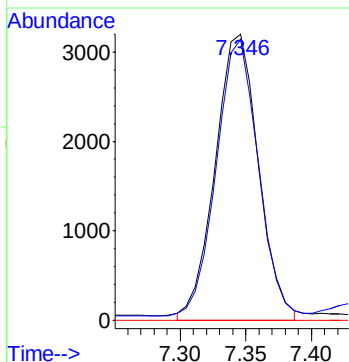
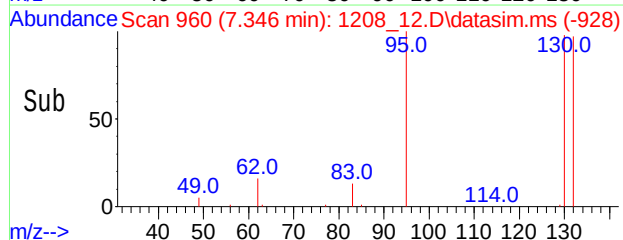




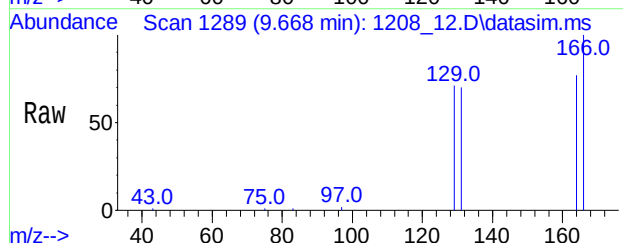
#97  
 Trichloroethene(sim)  
 Conc: 8\$ 0.121 ppbv  
 RT: 7.343 min Scan# 960  
 Delta R.T. 0.014 min  
 Lab File: 1208\_12.D  
 Acq: 9 Dec 2019 11:23 am



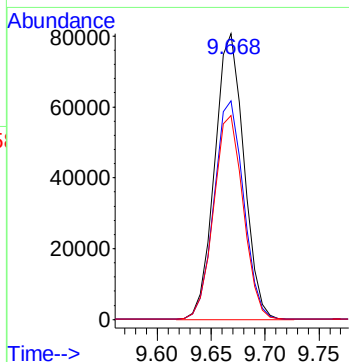
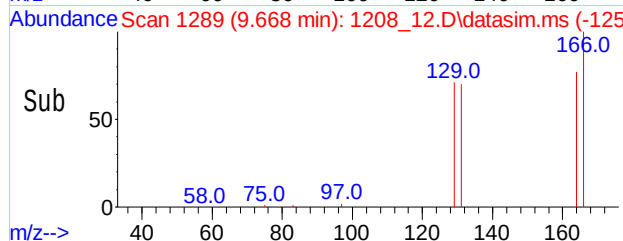
Tgt Ion:130 Resp: 6143  
 Ion Ratio Lower Upper  
 130 100  
 132 101.5 72.0 108.0  
 97 79.7 34.1 51.1#

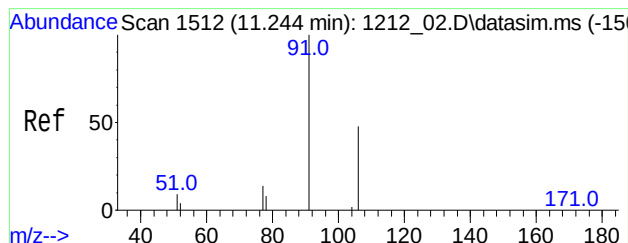


#103  
 Tetrachloroethene(sim)  
 Conc: 8\$ 2.110 ppbv  
 RT: 9.666 min Scan# 1289  
 Delta R.T. 0.018 min  
 Lab File: 1208\_12.D  
 Acq: 9 Dec 2019 11:23 am



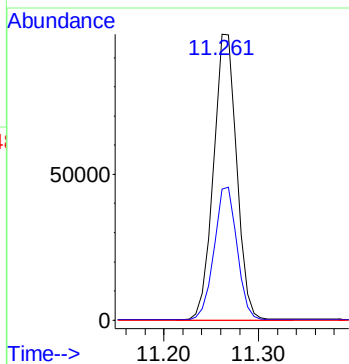
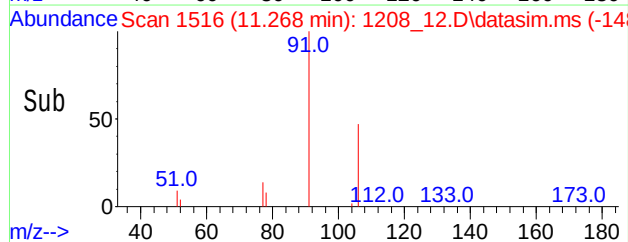
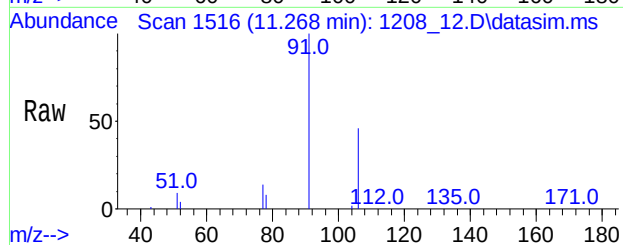
Tgt Ion:166 Resp: 144577  
 Ion Ratio Lower Upper  
 166 100  
 164 76.6 31.9 71.9#  
 129 71.2 58.6 98.6





#107  
 m,p-Xylene(sim)  
 Conc: 8\$ 1.589 ppbv  
 RT: 11.265 min Scan# 1516  
 Delta R.T. 0.017 min  
 Lab File: 1208\_12.D  
 Acq: 9 Dec 2019 11:23 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 152961 |       |       |
| 106     | 44.6  | 38.1   | 46.5  |       |
| 105     | 19.9  | 10.8   | 16.2  |       |



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

|              |                 |                  |                          |                 |
|--------------|-----------------|------------------|--------------------------|-----------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> | OUTDOOR AIR     |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CE81152</u>           |                 |
| Canister:    | <u>21368</u>    | Lab File ID:     | <u>1206_12.D</u>         |                 |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u>RTX-VMS</u>           | Date Received:  |
|              |                 |                  |                          | <u>12/05/19</u> |
| Purge Volume | <u>200</u> (cc) | Date Analyzed:   | <u>12/06/19</u>          |                 |
| Matrix:      | <u>AIR</u>      | Dilution Factor: | <u>1</u>                 |                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                           | CONC. | Q | MDL   | PQL   | R |
|------------|------------------------------------|-------|---|-------|-------|---|
| 115-07-1   | Propylene                          | 0.581 | U | 0.581 | 0.581 | r |
| 75-71-8    | Dichlorodifluoromethane            | 0.337 |   | 0.202 | 0.202 | r |
| 74-87-3    | Chloromethane                      | 0.557 |   | 0.485 | 0.485 | r |
| 106-99-0   | 1,3-Butadiene                      | 0.452 | U | 0.452 | 0.452 | r |
| 75-00-3    | Chloroethane                       | 0.379 | U | 0.379 | 0.379 | r |
| 64-17-5    | Ethanol                            | 4.92  | S | 0.531 | 0.531 | r |
| 67-64-1    | Acetone                            | 1.40  | S | 0.421 | 0.421 | r |
| 67-63-0    | Isopropylalcohol                   | 0.520 | S | 0.407 | 0.407 | r |
| 107-13-1   | Acrylonitrile                      | 0.461 | U | 0.461 | 0.461 | r |
| 75-09-2    | Methylene Chloride                 | 0.864 | U | 0.864 | 0.864 | r |
| 75-15-0    | Carbon Disulfide                   | 0.321 | U | 0.321 | 0.321 | r |
| 1634-04-4  | Methyl tert-butyl ether(MTBE)      | 0.278 | U | 0.278 | 0.278 | r |
| 78-93-3    | Methyl Ethyl Ketone                | 0.339 | U | 0.339 | 0.339 | r |
| 110-54-3   | Hexane                             | 0.289 | S | 0.284 | 0.284 | r |
| 141-78-6   | Ethyl acetate                      | 0.278 | U | 0.278 | 0.278 | r |
| 109-99-9   | Tetrahydrofuran                    | 0.339 | U | 0.339 | 0.339 | r |
| 71-43-2    | Benzene                            | 0.313 | U | 0.313 | 0.313 | r |
| 110-82-7   | Cyclohexane                        | 0.291 | U | 0.291 | 0.291 | r |
| 142-82-5   | Heptane                            | 0.244 | U | 0.244 | 0.244 | r |
| 108-10-1   | 4-Methyl-2-pentanone(MIBK)         | 0.244 | U | 0.244 | 0.244 | r |
| 10061-02-6 | trans-1,3-Dichloropropene          | 0.221 | U | 0.221 | 0.221 | r |
| 108-88-3   | Toluene                            | 0.403 |   | 0.266 | 0.266 | r |
| 591-78-6   | 2-Hexanone(MBK)                    | 0.244 | U | 0.244 | 0.244 | r |
| 108-90-7   | Chlorobenzene                      | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4   | Ethylbenzene                       | 0.230 | U | 0.230 | 0.230 | r |
| 100-42-5   | Styrene                            | 0.235 | U | 0.235 | 0.235 | r |
| 95-47-6    | o-Xylene                           | 0.230 | U | 0.230 | 0.230 | r |
| 98-82-8    | Isopropylbenzene                   | 0.204 | U | 0.204 | 0.204 | r |
| 622-96-8   | 4-Ethyltoluene                     | 0.204 | U | 0.204 | 0.204 | r |
| 108-67-8   | 1,3,5-Trimethylbenzene             | 0.204 | U | 0.204 | 0.204 | r |
| 95-63-6    | 1,2,4-Trimethylbenzene             | 0.204 | U | 0.204 | 0.204 | r |
| 76-14-2    | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U | 0.143 | 0.143 | r |
| 75-01-4    | Vinyl Chloride(sim)                | 0.078 | U | 0.078 | 0.078 | r |
| 74-83-9    | Bromomethane(sim)                  | 0.258 | U | 0.258 | 0.258 | r |
| 75-69-4    | Trichlorofluoromethane(sim)        | 0.193 |   | 0.178 | 0.178 | r |
| 71-55-6    | 1,1,1-Trichloroethane(sim)         | 0.183 | U | 0.183 | 0.183 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

OUTDOOR AIR

|              |          |                  |                   |
|--------------|----------|------------------|-------------------|
| Client:      | CEG      | Lab:             | Phoenix Env. Labs |
| SDG No.:     | GCE81145 | Lab Sample ID:   | CE81152           |
| Canister:    | 21368    | Lab File ID:     | 1206_12.D         |
| Instrument:  | CHEM24   | Column:          | RTX-VMS           |
|              |          | Date Received:   | 12/05/19          |
| Purge Volume | 200      | (cc)             |                   |
|              |          | Date Analyzed:   | 12/06/19          |
| Matrix:      | AIR      | Dilution Factor: | 1                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|-------------|--------------------------------|-------|---|-------|-------|---|
| 56-23-5     | Carbon Tetrachloride(sim)      | 0.070 |   | 0.032 | 0.032 | r |
| 75-35-4     | 1,1-Dichloroethene(sim)        | 0.051 | U | 0.051 | 0.051 | r |
| 76-13-1     | Trichlorotrifluoroethane(sim)  | 0.131 | U | 0.131 | 0.131 | r |
| 156-60-5    | Trans-1,2-Dichloroethene(sim)  | 0.252 | U | 0.252 | 0.252 | r |
| 75-34-3     | 1,1-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 156-59-2    | Cis-1,2-Dichloroethene(sim)    | 0.051 | U | 0.051 | 0.051 | r |
| 67-66-3     | Chloroform(sim)                | 0.205 | U | 0.205 | 0.205 | r |
| 107-06-2    | 1,2-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 78-87-5     | 1,2-dichloropropane(sim)       | 0.217 | U | 0.217 | 0.217 | r |
| 75-27-4     | Bromodichloromethane(sim)      | 0.149 | U | 0.149 | 0.149 | r |
| 79-01-6     | Trichloroethene(sim)           | 0.037 | U | 0.037 | 0.037 | r |
| 123-91-1    | 1,4-Dioxane(sim)               | 0.278 | U | 0.278 | 0.278 | r |
| 10061-01-5  | cis-1,3-Dichloropropene(sim)   | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5     | 1,1,2-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1    | Dibromochloromethane(sim)      | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4    | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 127-18-4    | Tetrachloroethene(sim)         | 0.119 |   | 0.037 | 0.037 | r |
| 75-25-2     | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6    | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 179601-23-1 | m,p-Xylene(sim)                | 0.230 | U | 0.230 | 0.230 | r |
| 79-34-5     | 1,1,2,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 100-44-7    | Benzyl chloride(sim)           | 0.193 | U | 0.193 | 0.193 | r |
| 541-73-1    | 1,3-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 106-46-7    | 1,4-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 135-98-8    | sec-Butylbenzene(sim)          | 0.182 | U | 0.182 | 0.182 | r |
| 99-87-6     | 4-Isopropyltoluene(sim)        | 0.182 | U | 0.182 | 0.182 | r |
| 95-50-1     | 1,2-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 104-51-8    | n-Butylbenzene(sim)            | 0.182 | U | 0.182 | 0.182 | r |
| 120-82-1    | 1,2,4-Trichlorobenzene(sim)    | 0.135 | U | 0.135 | 0.135 | r |
| 87-68-3     | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_12.D  
 Acq On : 6 Dec 2019 9:52 pm  
 Operator : Keith  
 Client ID : OUTDOOR AIR  
 Lab ID : CE81152  
 ALS Vial : 108 Sample Multiplier: 1

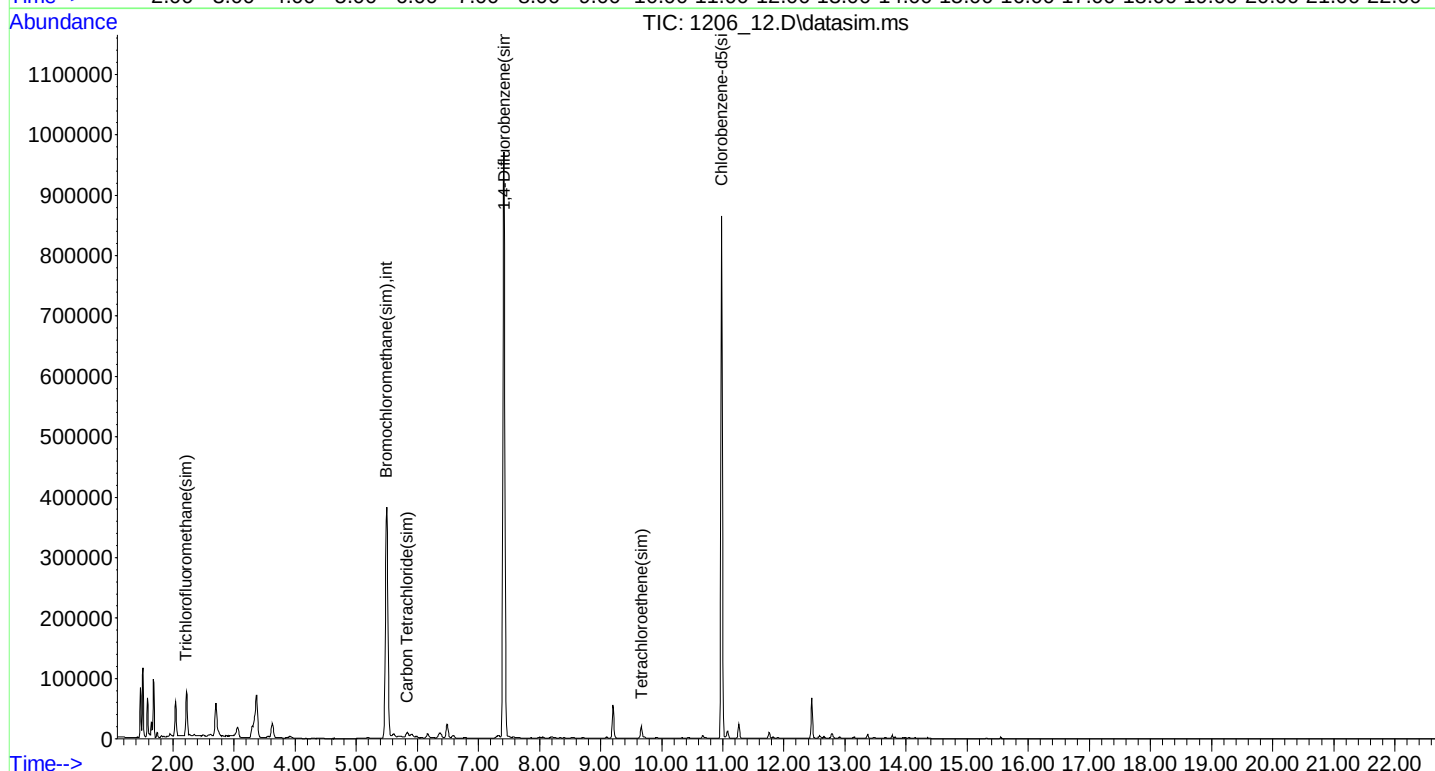
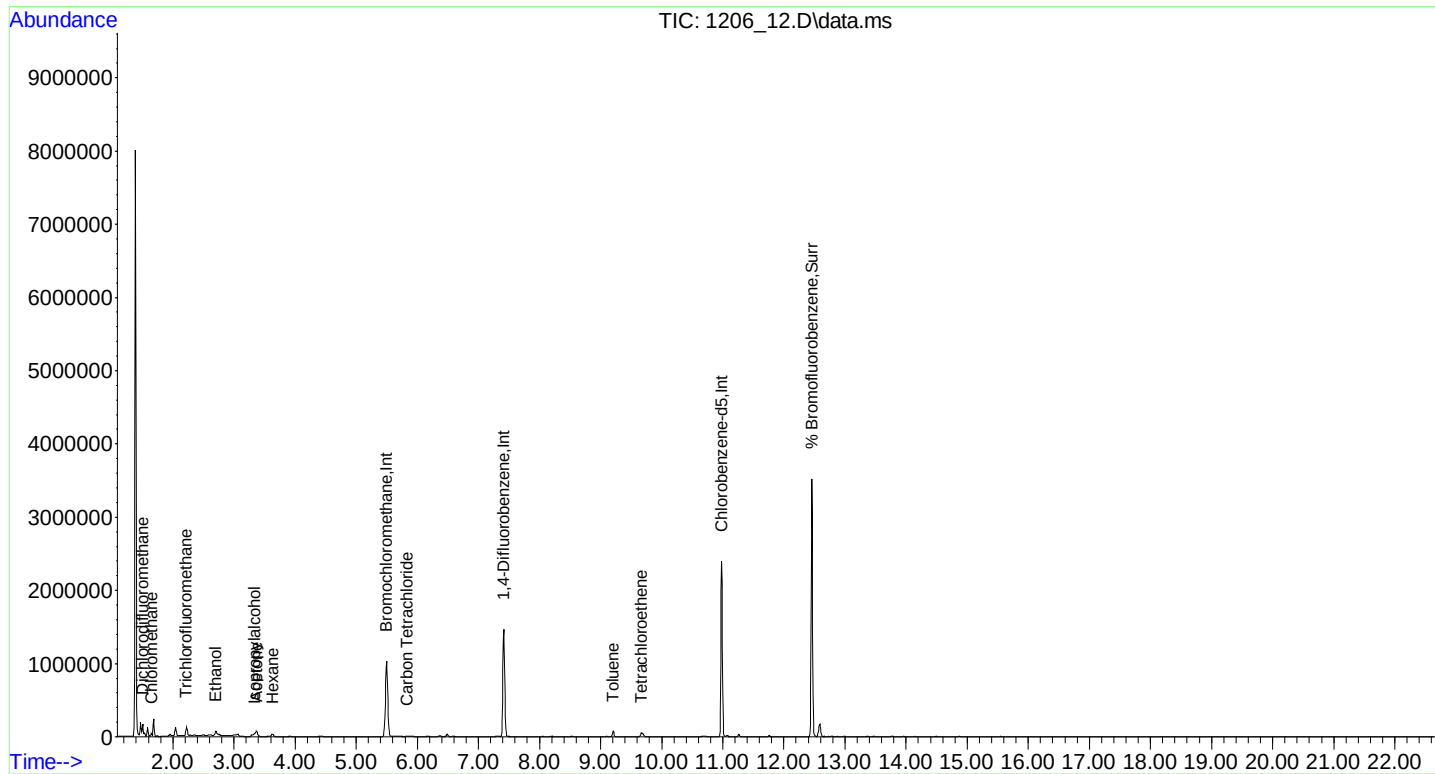
Quant Time: Dec 09 09:04:35 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

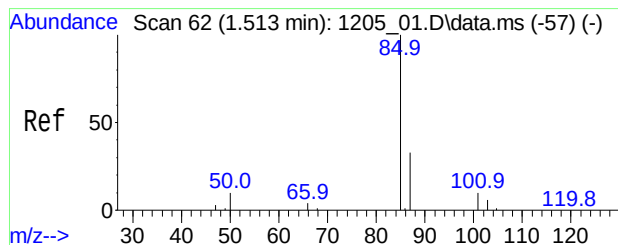
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.497  | 130   | 530795   | 10.000   | ng     | -0.04    |
| 36) 1,4-Difluorobenzene       | 7.415  | 114   | 1378045  | 10.000   | ng     | -0.03    |
| 53) Chlorobenzene-d5          | 10.981 | 82    | 733737   | 10.000   | ng     | -0.02    |
| 80) Bromochloromethane(sim)   | 5.499  | 130   | 546067   | 10.000   | ng     | #-0.04   |
| 94) 1,4-Difluorobenzene(sim)  | 7.418  | 114   | 1495837  | 10.000   | ng     | #-0.03   |
| 104) Chlorobenzene-d5(sim)    | 10.984 | 82    | 791417   | 10.000   | ng     | -0.02    |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 12.458 | 95    | 1055028  | 9.533    | ppbv   | -0.02    |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 95.30%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane    | 1.506  | 101   | 7550     | 0.337    | ppbv#  | 68       |
| 4) Chloromethane              | 1.650  | 50    | 23508    | 0.557    | ppbv   | 83       |
| 10) Ethanol                   | 2.704  | 45    | 64833    | 4.923    | ppbv#  | 87       |
| 12) Acetone                   | 3.368  | 43    | 120002   | 1.401    | ppbv#  | 90       |
| 13) Trichlorofluoromethane    | 2.218  | 101   | 39184    | 0.228    | ppbv#  | 90       |
| 14) Isopropylalcohol          | 3.340  | 45    | 38171    | 0.520    | ppbv#  | 1        |
| 27) Hexane                    | 3.628  | 57    | 19375    | 0.289    | ppbv   | 95       |
| 34) Carbon Tetrachloride      | 5.828  | 117   | 9951     | 0.070    | ppbv   | 93       |
| 48) Toluene                   | 9.208  | 91    | 58405    | 0.403    | ppbv   | 94       |
| 52) Tetrachloroethene         | 9.670  | 166   | 10672    | 0.108    | ppbv   | 88       |
| 84) Trichlorofluoromethane... | 2.221  | 101   | 41086    | 0.193    | ppbv   | 94       |
| 86) Carbon Tetrachloride(sim) | 5.831  | 117   | 10300    | 0.070    | ppbv   | 98       |
| 103) Tetrachloroethene(sim)   | 9.670  | 166   | 10672    | 0.119    | ppbv   | 75       |

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
Data File : 1206\_12.D  
Acq On : 6 Dec 2019 9:52 pm  
Operator : Keith  
Client ID : OUTDOOR AIR  
Lab ID : CE81152  
ALS Vial : 108 Sample Multiplier: 1

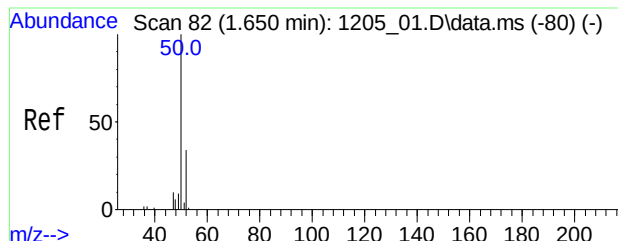
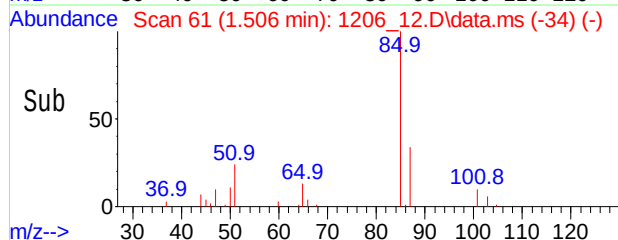
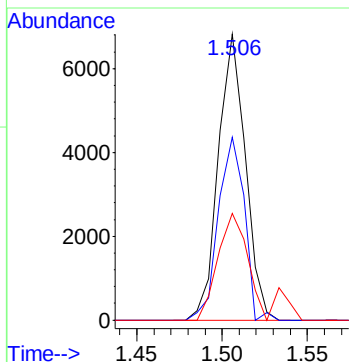
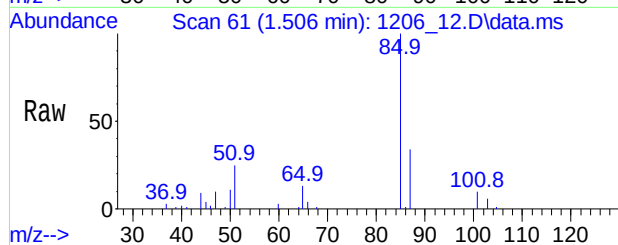
Quant Time: Dec 09 09:04:35 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Last Update : Wed Dec 04 08:59:27 2019  
Response via : Initial Calibration





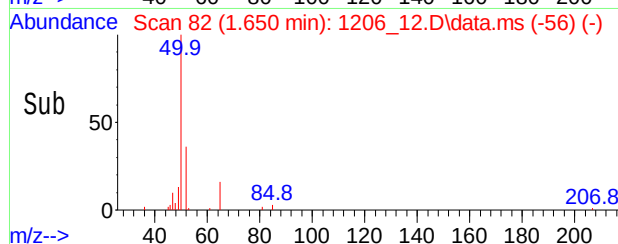
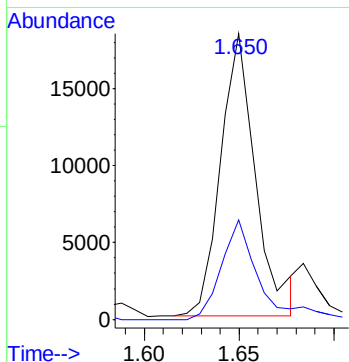
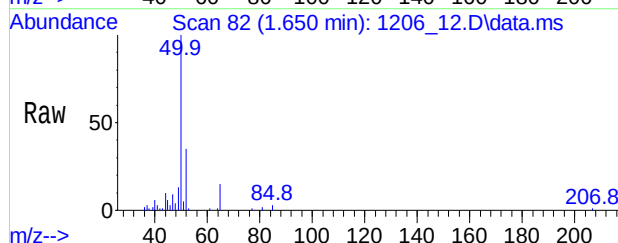
#3  
Dichlorodifluoromethane  
Conc: 8\$ 0.337 ppbv  
RT: 1.506 min Scan# 61  
Delta R.T. -0.013 min  
Lab File: 1206\_12.D  
Acq: 6 Dec 2019 9:52 pm

| Tgt Ion | Ratio | Resp | Lower  | Upper |
|---------|-------|------|--------|-------|
| 101     | 100   | 7550 |        |       |
| 103     | 61.0  | 75.3 | 112.9# |       |
| 66      | 40.7  | 51.0 | 76.6#  |       |

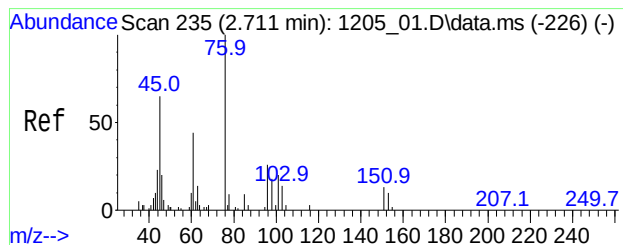


#4  
Chloromethane  
Conc: 8\$ 0.557 ppbv  
RT: 1.650 min Scan# 82  
Delta R.T. -0.020 min  
Lab File: 1206\_12.D  
Acq: 6 Dec 2019 9:52 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 50      | 100   | 23508 |       |       |
| 52      | 37.8  | 8.7   | 48.7  |       |

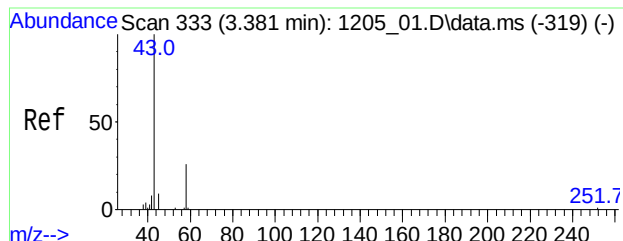
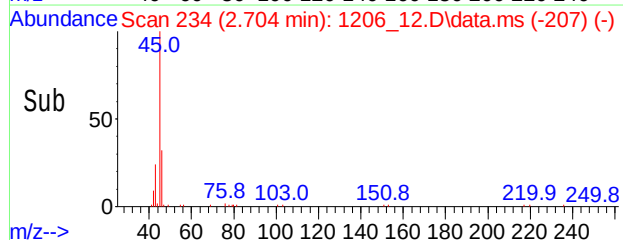
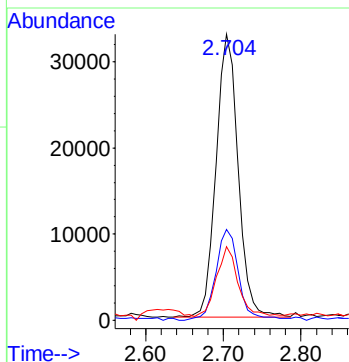
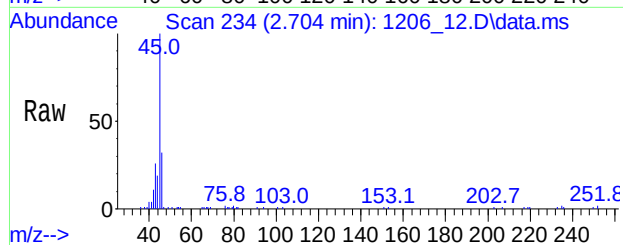






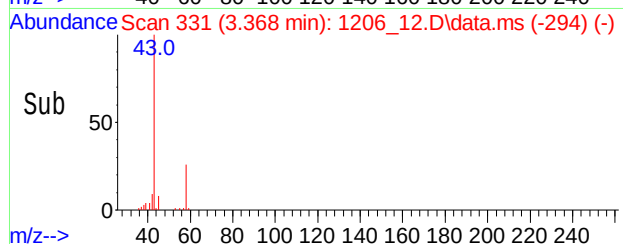
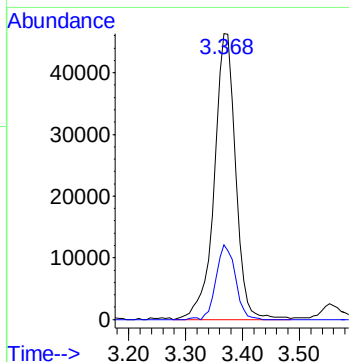
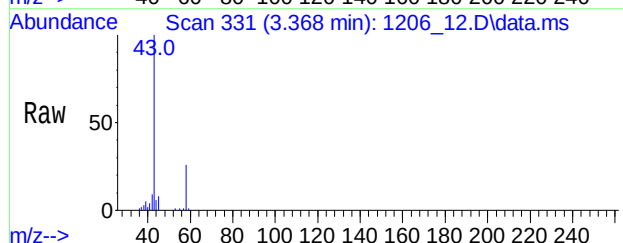
#10  
Ethanol  
Conc: 8\$ 4.923 ppbv  
RT: 2.704 min Scan# 234  
Delta R.T. -0.014 min  
Lab File: 1206\_12.D  
Acq: 6 Dec 2019 9:52 pm

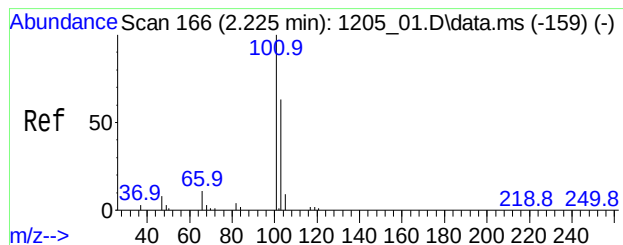
Tgt Ion: 45 Resp: 64833  
Ion Ratio Lower Upper  
45 100  
46 33.1 24.5 36.7  
43 24.7 7.0 10.4#



#12  
Acetone  
Conc: 8\$ 1.401 ppbv  
RT: 3.368 min Scan# 331  
Delta R.T. -0.047 min  
Lab File: 1206\_12.D  
Acq: 6 Dec 2019 9:52 pm

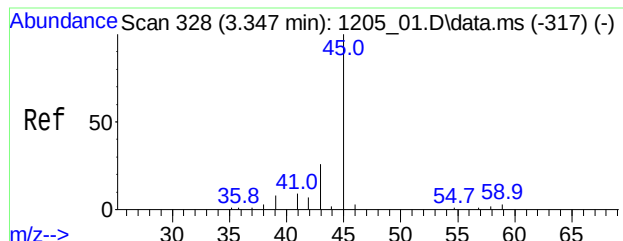
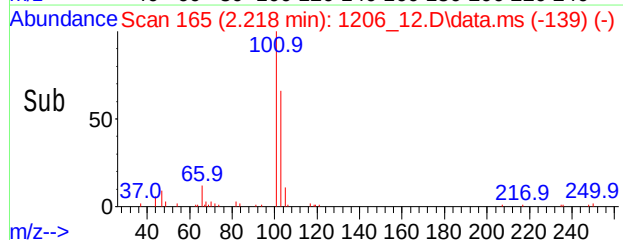
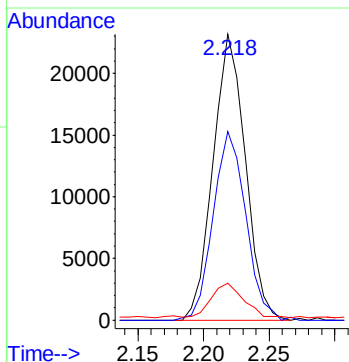
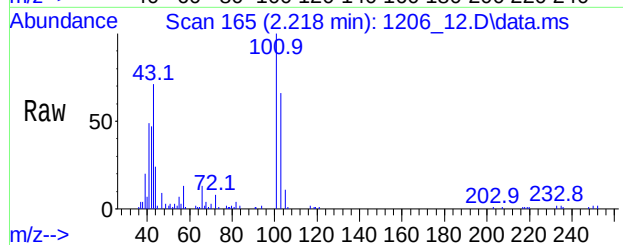
Tgt Ion: 43 Resp: 120002  
Ion Ratio Lower Upper  
43 100  
58 23.5 15.4 23.0#





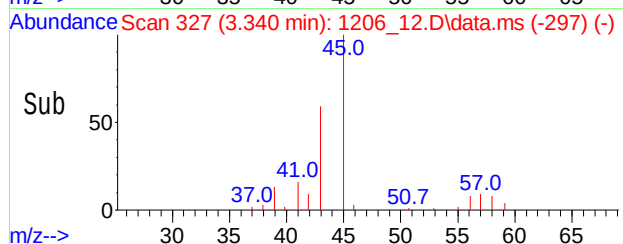
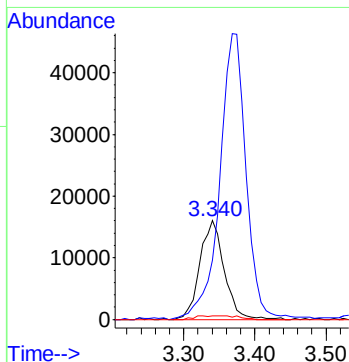
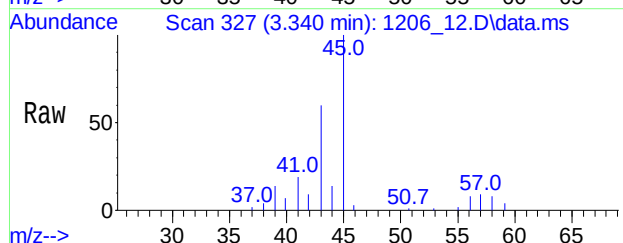
#13  
Trichlorofluoromethane  
Conc: 8\$ 0.228 ppbv  
RT: 2.218 min Scan# 165  
Delta R.T. -0.021 min  
Lab File: 1206\_12.D  
Acq: 6 Dec 2019 9:52 pm

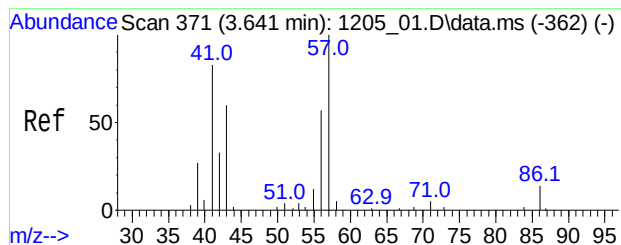
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 101     | 100   | 39184 |       |       |
| 103     | 66.7  | 55.4  | 83.2  |       |
| 66      | 13.3  | 22.0  | 33.0  |       |



#14  
Isopropylalcohol  
Conc: 8\$ 0.520 ppbv  
RT: 3.340 min Scan# 327  
Delta R.T. 0.007 min  
Lab File: 1206\_12.D  
Acq: 6 Dec 2019 9:52 pm

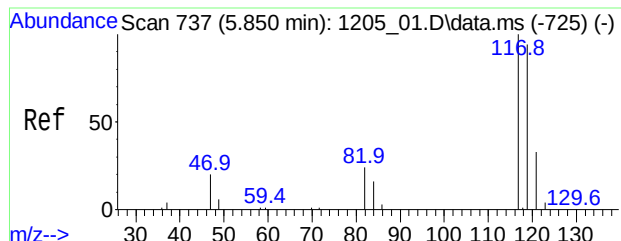
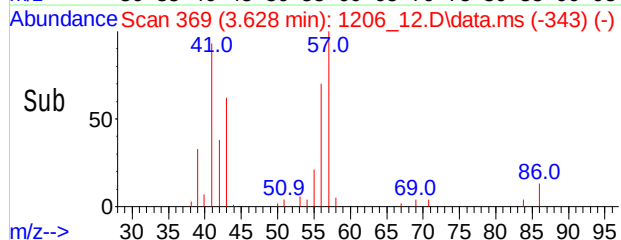
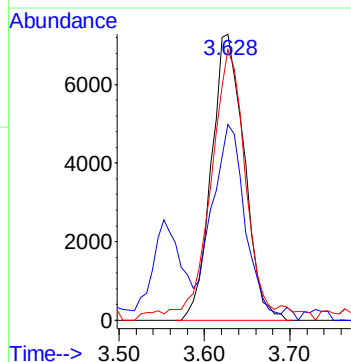
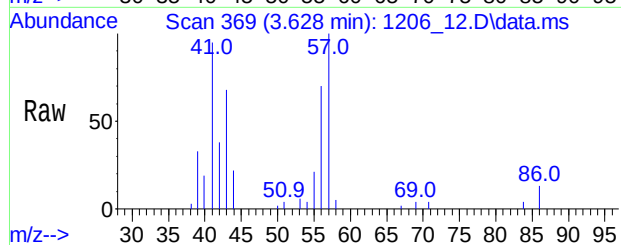
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 45      | 100   | 38171 |       |       |
| 43      | 314.4 | 24.0  | 36.0  |       |
| 59      | 2.1   | 0.0   | 0.0   |       |





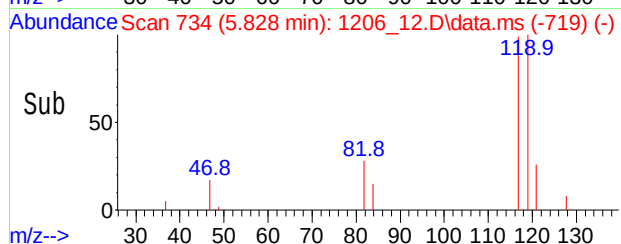
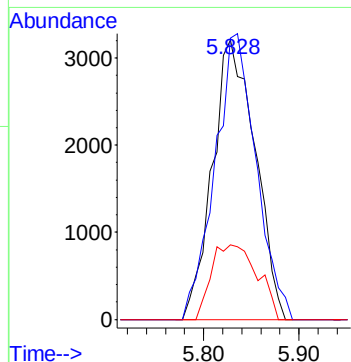
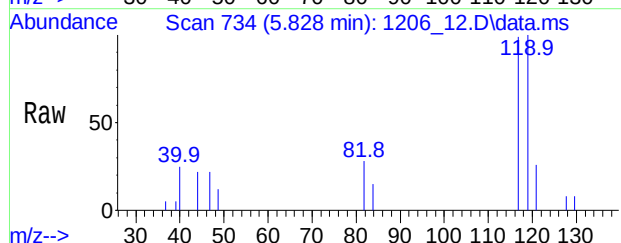
#27  
Hexane  
Conc: 8\$ 0.289 ppbv  
RT: 3.628 min Scan# 369  
Delta R.T. -0.020 min  
Lab File: 1206\_12.D  
Acq: 6 Dec 2019 9:52 pm

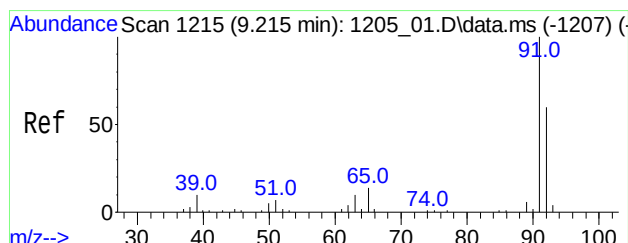
Tgt Ion: 57 Resp: 19375  
Ion Ratio Lower Upper  
57 100  
43 65.9 50.9 76.3  
41 100.7 85.5 128.3



#34  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 5.828 min Scan# 734  
Delta R.T. -0.043 min  
Lab File: 1206\_12.D  
Acq: 6 Dec 2019 9:52 pm

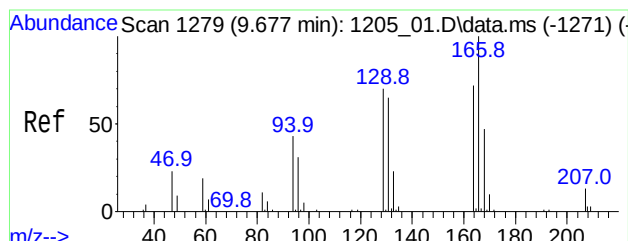
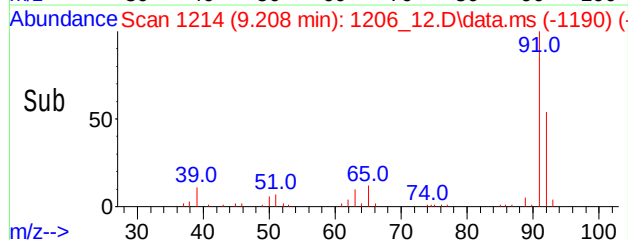
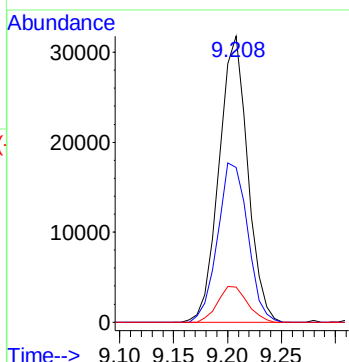
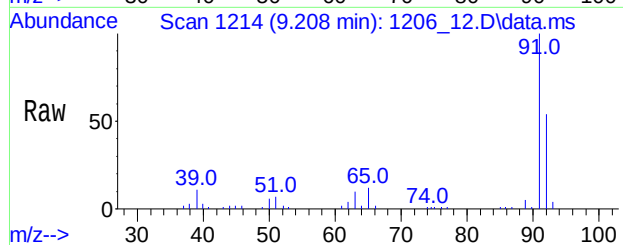
Tgt Ion: 117 Resp: 9951  
Ion Ratio Lower Upper  
117 100  
119 98.7 75.7 115.7  
121 28.8 0.0 34.9





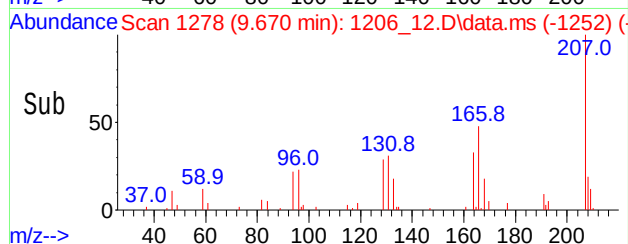
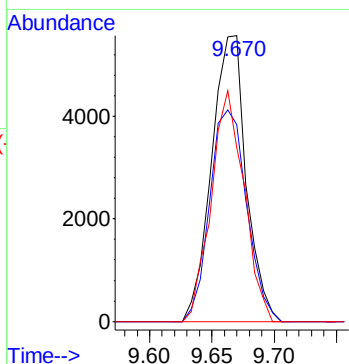
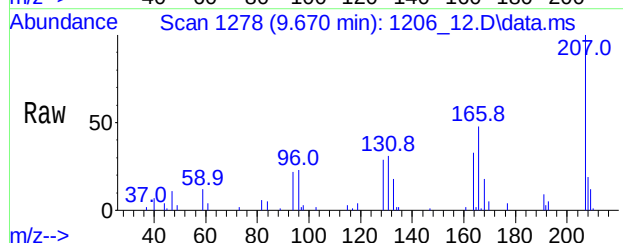
#48  
Toluene  
Conc: 8\$ 0.403 ppbv  
RT: 9.208 min Scan# 1214  
Delta R.T. -0.028 min  
Lab File: 1206\_12.D  
Acq: 6 Dec 2019 9:52 pm

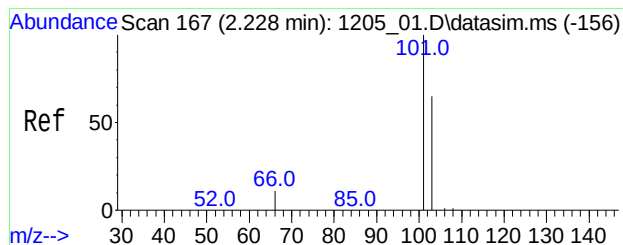
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 58405 |       |       |
| 92      | 58.6  | 50.6  | 75.8  |       |
| 65      | 12.9  | 0.0   | 0.0#  |       |



#52  
Tetrachloroethene  
Conc: 8\$ Below Cal  
RT: 9.670 min Scan# 1278  
Delta R.T. -0.014 min  
Lab File: 1206\_12.D  
Acq: 6 Dec 2019 9:52 pm

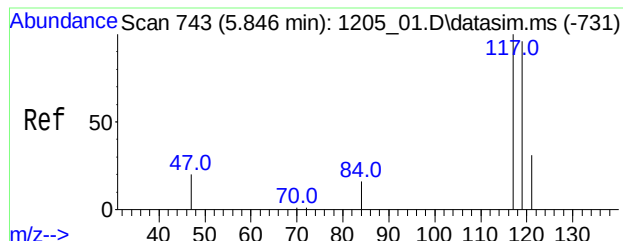
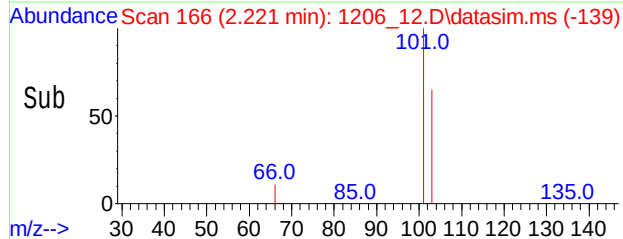
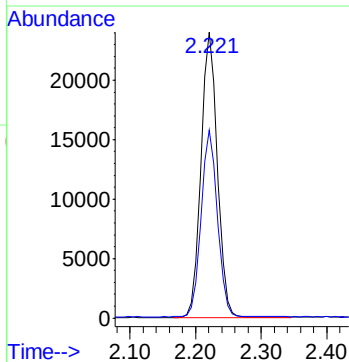
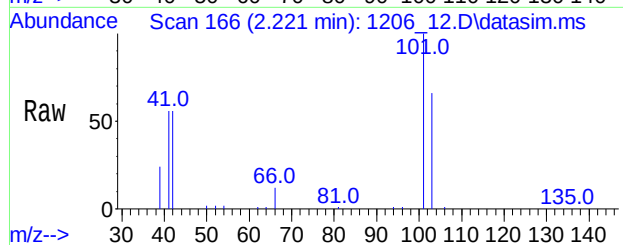
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 10672 |       |       |
| 164     | 78.8  | 53.6  | 80.4  |       |
| 129     | 76.3  | 54.5  | 81.7  |       |





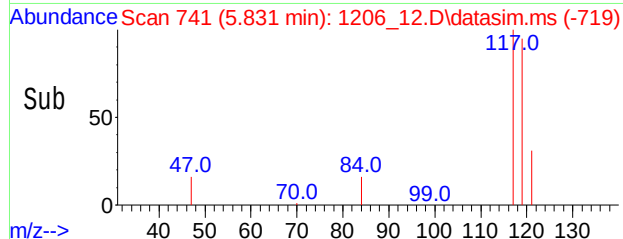
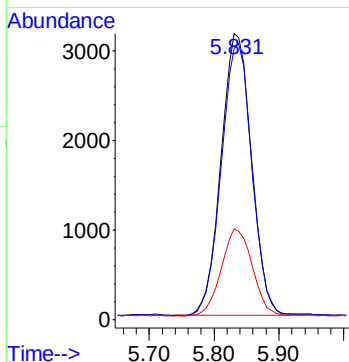
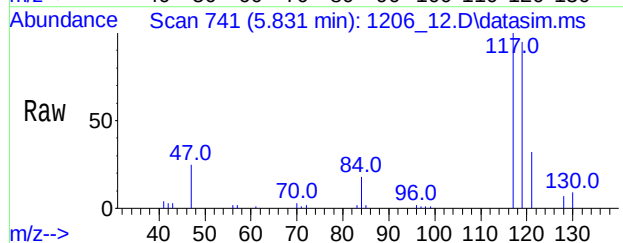
#84  
Trichlorofluoromethane(sim)  
Conc: 8\$ 0.193 ppbv  
RT: 2.221 min Scan# 166  
Delta R.T. -0.014 min  
Lab File: 1206\_12.D  
Acq: 6 Dec 2019 9:52 pm

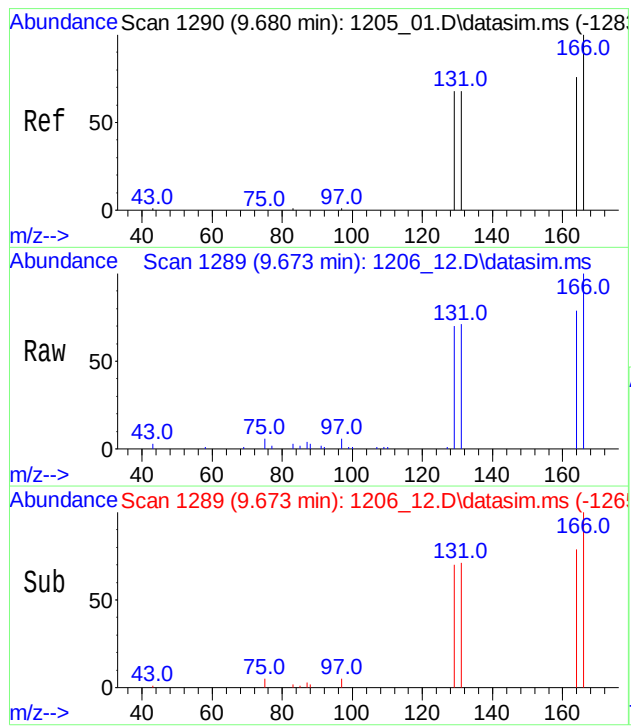
Tgt Ion: 101 Resp: 41086  
Ion Ratio Lower Upper  
101 100  
103 65.1 56.3 84.5



#86  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.070 ppbv  
RT: 5.831 min Scan# 741  
Delta R.T. -0.043 min  
Lab File: 1206\_12.D  
Acq: 6 Dec 2019 9:52 pm

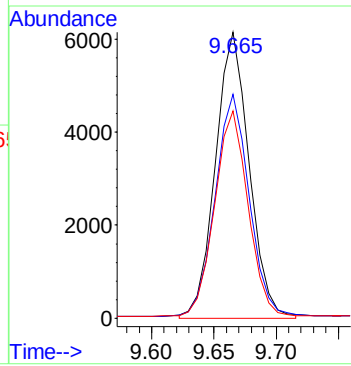
Tgt Ion: 117 Resp: 10300  
Ion Ratio Lower Upper  
117 100  
119 96.9 75.9 113.9  
121 31.4 24.9 37.3





#103  
 Tetrachloroethene(sim)  
 Conc: 8\$ 0.119 ppbv  
 RT: 9.670 min Scan# 1289  
 Delta R.T. -0.028 min  
 Lab File: 1206\_12.D  
 Acq: 6 Dec 2019 9:52 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 10672 |       |       |
| 164     | 79.9  | 40.5  | 80.5  |       |
| 129     | 76.3  | 0.0   | 20.0  |       |



## Response Factor Report Chem24

Method Path : H:\AIR2019\CHEM24\METHODS\  
 Method File : 24AIR\_1203.M  
 Title : VOA Standards for 5 point calibration  
 Last Update : Wed Dec 04 08:59:27 2019  
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)

.035=1203\_09.D 0.05=1203\_10.D 0.1=1203\_11.D 0.2=1203\_19.D 0.5=1203\_12.D 1.0=1203\_18.D 2.5=1203\_13.D 5.0=1203\_14.D  
 10=1203\_20.D 25=1203\_15.D 40=1203\_16.D 0.02=1203\_08.D

| Compound                    | .035           | 0.05  | 0.1   | 0.2   | 0.5   | 1.0   | 2.5   | 5.0   | 10    | 25    | 40    | 0.02 | Avg   | %RSD   |
|-----------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|--------|
| 1) Int Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |      |       |        |
| 2) Propylene                |                |       |       | 0.698 | 0.812 | 0.851 | 0.874 | 1.010 | 1.254 | 1.000 | 0.919 |      | 0.927 | 17.94  |
| 3) Dichlorodifluo...        |                | 0.426 | 0.427 | 0.455 | 0.438 | 0.480 | 0.497 | 0.476 | 0.340 | 0.262 |       |      | 0.422 | 17.90  |
| 4) Chloromethane            |                |       | 0.952 | 0.920 | 0.932 | 0.864 | 0.815 | 0.727 | 0.608 | 0.546 |       |      | 0.796 | 19.34  |
| 5) 1,2-Dichlorote...        |                |       | 2.639 | 2.693 | 2.826 | 2.545 | 2.406 | 2.255 | 1.766 | 1.585 |       |      | 2.339 | 19.14  |
| 6) Vinyl Chloride           |                | 1.019 | 1.041 | 1.034 | 1.106 | 0.951 | 0.926 | 0.897 | 0.779 | 0.736 |       |      | 0.943 | 13.11  |
| 7) 1,3-Butadiene            |                | 0.550 | 0.633 | 0.570 | 0.656 | 0.587 | 0.565 | 0.558 | 0.482 | 0.448 |       |      | 0.561 | 11.62  |
| 8) Bromomethane             |                | 2.136 | 1.329 | 1.531 | 1.293 | 1.369 | 1.348 | 1.230 | 1.179 | 1.073 |       |      | 1.388 | 22.25  |
| 9) Chloroethane             |                | 0.775 | 0.490 | 0.521 | 0.435 | 0.447 | 0.445 | 0.413 | 0.409 | 0.380 |       |      | 0.480 | 24.73  |
| 10) Ethanol                 |                |       |       | 0.338 | 0.249 | 0.287 | 0.264 | 0.225 | 0.205 | 0.169 |       |      | 0.248 | 22.43  |
| 12) Acetone                 |                |       |       |       | 1.695 | 1.831 | 1.808 | 1.573 | 1.449 | 1.328 |       |      | 1.614 | 12.46  |
| 13) Trichlorofluor...       |                | 4.456 | 3.147 | 4.252 | 2.926 | 3.640 | 3.356 | 2.658 | 2.532 | 2.159 |       |      | 3.236 | 23.91  |
| 14) Isopropylalcohol        |                |       | 1.474 | 1.485 | 1.464 | 1.409 | 1.484 | 1.406 | 1.248 | 1.100 |       |      | 1.384 | 10.03  |
| 15) Acrylonitrile           |                |       | 0.527 | 0.448 | 0.461 | 0.461 | 0.472 | 0.477 | 0.445 | 0.443 |       |      | 0.467 | 5.91   |
| 16) 1,1-Dichloroet...       |                | 2.085 | 1.730 | 1.889 | 1.452 | 1.725 | 1.672 | 1.488 | 1.419 | 1.267 |       |      | 1.637 | 15.62# |
| 17) Methylene Chlo...       |                |       | 1.151 | 1.151 | 1.023 | 1.041 | 1.070 | 1.018 | 0.941 | 0.890 |       |      | 1.036 | 8.83   |
| 20) Carbon Disulfide        |                |       |       | 3.579 | 2.687 | 3.087 | 2.966 | 2.661 | 2.501 | 2.216 |       |      | 2.814 | 15.75  |
| 21) Trichlorotrifl...       |                |       | 2.491 | 2.870 | 2.102 | 2.463 | 2.317 | 1.973 | 1.894 | 1.703 |       |      | 2.227 | 17.08  |
| 22) Trans-1,2-Dich...       |                | 1.418 | 1.380 | 1.340 | 1.324 | 1.306 | 1.354 | 1.310 | 1.230 | 1.205 |       |      | 1.319 | 5.13   |
| 23) 1,1-Dichloroet...       |                | 1.952 | 1.764 | 1.753 | 1.684 | 1.697 | 1.765 | 1.734 | 1.638 | 1.591 |       |      | 1.731 | 5.89   |
| 24) Methyl tert-bu...       |                |       | 2.412 | 2.269 | 2.386 | 2.225 | 2.397 | 2.218 | 2.057 | 2.025 |       |      | 2.248 | 6.64   |
| 25) Methyl Ethyl K...       |                |       | 1.015 | 1.109 | 1.127 | 1.285 | 1.465 | 1.448 | 1.444 | 1.320 |       |      | 1.277 | 13.70  |
| 26) Cis-1,2-Dichlo...       |                | 1.258 | 1.314 | 1.226 | 1.330 | 1.369 | 1.512 | 1.531 | 1.447 | 1.386 |       |      | 1.375 | 7.72   |
| 27) Hexane                  |                |       | 1.312 | 0.992 | 1.108 | 1.403 | 1.473 | 1.138 | 1.343 | 1.337 |       |      | 1.263 | 13.09  |
| 28) Chloroform              |                | 2.353 | 2.033 | 2.328 | 2.134 | 2.411 | 2.516 | 2.369 | 2.242 | 2.130 |       |      | 2.279 | 6.85   |
| 29) Ethyl acetate           |                |       | 1.519 | 1.581 | 1.533 | 1.579 | 1.660 | 1.518 | 1.469 | 1.417 |       |      | 1.535 | 4.84   |
| 30) Tetrahydrofuran         |                |       | 0.587 | 0.576 | 0.611 | 0.597 | 0.671 | 0.629 | 0.598 | 0.581 |       |      | 0.606 | 5.17   |
| 31) 1,2-Dichloroet...       |                | 1.822 | 1.545 | 1.657 | 1.495 | 1.714 | 1.823 | 1.686 | 1.685 | 1.553 |       |      | 1.664 | 7.00   |
| 32) 1,1,1-Trichlor...       |                | 2.598 | 2.312 | 2.551 | 2.263 | 2.415 | 2.420 | 2.219 | 2.136 | 2.027 |       |      | 2.327 | 8.08   |
| 33) Benzene                 |                | 2.150 | 2.352 | 2.166 | 2.420 | 2.235 | 2.372 | 2.368 | 2.277 | 2.250 |       |      | 2.288 | 4.19   |
| 34) Carbon Tetrach...       |                | 2.955 | 2.397 | 2.803 | 2.473 | 2.849 | 2.929 | 2.666 | 2.539 | 2.372 |       |      | 2.665 | 8.57   |
| 35) Cyclohexane             |                |       | 1.000 | 0.911 | 1.043 | 1.051 | 1.164 | 1.182 | 1.125 | 1.101 |       |      | 1.072 | 8.40   |
| 36) Int 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |      |       |        |
| 37) 1,2-dichloropr...       |                |       | 0.310 | 0.308 | 0.294 | 0.335 | 0.333 | 0.370 | 0.373 | 0.348 | 0.332 |      | 0.334 | 8.14   |
| 38) Bromodichlorom...       |                |       | 0.936 | 0.815 | 0.932 | 0.895 | 1.000 | 1.054 | 0.947 | 0.878 | 0.800 |      | 0.917 | 8.90   |
| 39) Trichloroethene         |                |       | 0.505 | 0.525 | 0.449 | 0.527 | 0.491 | 0.544 | 0.548 | 0.513 | 0.493 |      | 0.511 | 6.00   |
| 41) 1,4-Dioxane             |                |       |       | 0.189 | 0.150 | 0.210 | 0.190 | 0.228 | 0.238 | 0.221 | 0.201 |      | 0.203 | 13.65  |
| 43) Heptane                 |                |       | 0.365 | 0.387 | 0.368 | 0.423 | 0.418 | 0.462 | 0.428 | 0.407 | 0.382 |      | 0.404 | 7.87   |
| 44) cis-1,3-Dichlo...       |                |       | 0.440 | 0.532 | 0.498 | 0.635 | 0.624 | 0.750 | 0.760 | 0.721 | 0.668 |      | 0.625 | 18.20  |
| 45) 4-Methyl-2-pen...       |                |       | 0.490 | 0.568 | 0.575 | 0.631 | 0.675 | 0.741 | 0.618 | 0.590 | 0.526 |      | 0.602 | 12.60  |
| 46) trans-1,3-Dich...       |                |       | 0.499 | 0.535 | 0.534 | 0.574 | 0.584 | 0.613 | 0.562 | 0.534 | 0.497 |      | 0.548 | 7.08   |

## Response Factor Report Chem24

Method Path : H:\AIR2019\CHEM24\METHODS\

Method File : 24AIR\_1203.M

Title : VOA Standards for 5 point calibration

|     |                   |       |       |       |       |       |       |       |       |       |       |       |
|-----|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 47) | 1,1,2-Trichlor... | 0.467 | 0.468 | 0.439 | 0.469 | 0.443 | 0.473 | 0.448 | 0.433 | 0.414 | 0.451 | 4.49  |
| 48) | Toluene           | 0.806 | 0.974 | 0.895 | 1.132 | 1.114 | 1.231 | 1.193 | 1.090 | 1.020 | 1.051 | 13.29 |
| 49) | Dibromochlorom... | 1.069 | 0.996 | 1.017 | 1.001 | 1.058 | 1.105 | 1.038 | 1.010 | 0.923 | 1.024 | 5.08  |
| 50) | 2-Hexanone(MBK)   |       | 0.521 | 0.492 | 0.632 | 0.663 | 0.817 | 0.771 | 0.747 | 0.665 | 0.664 | 17.34 |
| 51) | 1,2-Dibromoeth... | 0.741 | 0.777 | 0.733 | 0.800 | 0.784 | 0.864 | 0.851 | 0.821 | 0.781 | 0.795 | 5.64  |
| 52) | Tetrachloroethene | 0.689 | 0.739 | 0.654 | 0.757 | 0.710 | 0.776 | 0.756 | 0.718 | 0.675 | 0.719 | 5.72  |

|     |                       |                |       |       |       |       |       |       |       |       |         |       |
|-----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|
| 53) | Int Chlorobenzene-d5  | -----ISTD----- |       |       |       |       |       |       |       |       |         |       |
| 54) | 1,1,1,2-Tetrac...     | 1.048          | 0.943 | 0.945 | 0.896 | 0.909 | 0.930 | 0.849 | 0.802 | 0.793 | 0.902   | 8.81  |
| 55) | Chlorobenzene         | 1.467          | 1.554 | 1.432 | 1.502 | 1.484 | 1.604 | 1.571 | 1.448 | 1.440 | 1.500   | 4.15  |
| 56) | Ethylbenzene          | 2.101          | 2.359 | 2.217 | 2.383 | 2.381 | 2.481 | 2.272 | 2.093 | 1.982 | 2.252   | 7.38  |
| 57) | m,p-Xylene            | 1.346          | 1.719 | 1.613 | 1.498 | 1.831 | 1.943 | 1.808 | 1.621 | 1.539 | 1.658   | 11.23 |
| 58) | Bromoform             | 1.626          | 1.688 | 1.708 | 1.736 | 1.746 | 1.624 | 1.474 | 1.398 | 1.317 | 1.591   | 9.87  |
| 59) | Styrene               |                | 1.125 | 1.017 | 1.381 | 1.305 | 1.391 | 1.340 | 1.254 | 1.244 | 1.257   | 10.33 |
| 60) | 1,1,2,2-Tetrac...     | 1.680          | 1.727 | 1.613 | 1.705 | 1.656 | 1.728 | 1.601 | 1.460 | 1.400 | 1.619   | 7.23  |
| 61) | o-Xylene              |                | 1.670 | 1.410 | 1.984 | 2.021 | 2.299 | 2.261 | 2.052 | 1.914 | 1.952   | 15.09 |
| 62) | Surr% Bromofluorob... | 1.399          | 1.415 | 1.427 | 1.471 | 1.459 | 1.522 | 1.555 | 1.619 | 1.708 | 1.508   | 6.86  |
| 64) | Isopropylbenzene      | 1.578          | 2.210 | 2.018 | 2.614 | 2.614 | 2.909 | 2.756 | 2.518 | 2.397 | 2.402   | 17.09 |
| 66) | 4-Ethyltoluene        | 1.904          | 2.396 | 2.392 | 2.683 | 2.598 | 2.702 | 2.469 | 2.300 | 2.159 | 2.400   | 10.72 |
| 67) | 1,3,5-Trimethy...     | 1.545          | 2.002 | 1.945 | 2.200 | 2.164 | 2.282 | 2.215 | 2.075 | 1.992 | 2.047   | 10.77 |
| 68) | 1,2,4-Trimethy...     | 1.317          | 1.825 | 1.899 | 2.208 | 2.232 | 2.337 | 2.117 | 2.002 | 1.853 | 1.977   | 15.48 |
| 70) | qfi Benzyl chloride   | 0.053          | 0.110 | 0.308 | 0.761 | 2.100 | 5.253 | 10.40 | 26.22 | 39.10 | Coef R2 | 1.00  |
| 71) | 1,3-Dichlorobe...     | 1.506          | 1.582 | 1.602 | 1.554 | 1.545 | 1.588 | 1.407 | 1.346 | 1.240 | 1.486   | 8.51  |
| 72) | 1,4-Dichlorobe...     | 1.297          | 1.464 | 1.387 | 1.441 | 1.477 | 1.654 | 1.558 | 1.493 | 1.400 | 1.464   | 7.02  |
| 73) | sec-Butylbenzene      | 1.985          | 2.689 | 2.687 | 2.914 | 2.977 | 3.192 | 2.868 | 2.652 | 2.470 | 2.715   | 12.75 |
| 74) | 4-Isopropyltol...     | 1.496          | 1.964 | 2.013 | 2.345 | 2.481 | 2.723 | 2.429 | 2.293 | 2.079 | 2.202   | 16.33 |
| 75) | 1,2-Dichlorobe...     | 1.306          | 1.301 | 1.375 | 1.354 | 1.438 | 1.518 | 1.353 | 1.320 | 1.163 | 1.348   | 7.27  |
| 76) | n-Butylbenzene        | 1.344          | 1.520 | 1.801 | 1.886 | 2.095 | 2.222 | 1.912 | 1.708 | 1.532 | 1.780   | 15.99 |
| 77) | qfi 1,2,4-Trichlor... |                | 0.123 | 0.226 | 0.967 | 1.848 | 5.192 | 11.06 | 25.60 | 38.96 | Coef R2 | 0.99  |
| 79) | qfi Hexachlorobuta... |                | 0.177 | 0.470 | 0.987 | 2.636 | 5.644 | 9.557 | 23.00 | 0.0   | Coef R2 | 1.00  |

|     |     |                       |                |       |       |       |       |       |       |       |       |         |       |
|-----|-----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|
| 80) | int | Bromochloromethane... | -----ISTD----- |       |       |       |       |       |       |       |       |         |       |
| 81) |     | 1,2-Dichlorote...     | 2.455          | 2.217 | 2.728 | 2.613 | 2.563 | 2.800 | 2.425 | 2.306 | 2.459 | 2.507   | 7.53  |
| 82) |     | Vinyl Chloride...     | 1.074          | 0.997 | 1.059 | 1.104 | 1.058 | 1.149 | 0.983 | 0.958 |       | 1.048   | 6.16  |
| 83) |     | Bromomethane(sim)     | 1.749          | 1.648 | 1.856 | 1.316 | 1.457 | 1.281 | 1.306 | 1.293 | 1.835 | 1.527   | 16.06 |
| 84) |     | Trichlorofluor...     | 4.263          | 4.290 | 4.460 | 3.204 | 4.204 | 2.987 | 3.605 | 3.280 | 4.783 | 3.897   | 16.38 |
| 85) |     | 1,1,1-Trichlor...     | 2.516          | 2.489 | 2.507 | 2.289 | 2.428 | 2.242 | 2.299 | 2.320 | 2.342 | 2.381   | 4.39  |
| 86) |     | Carbon Tetrach...     | 2.688          | 2.739 | 2.871 | 2.440 | 2.818 | 2.476 | 2.808 | 2.884 | 2.593 | 2.702   | 6.12  |
| 87) |     | 1,1-Dichloroet...     | 1.866          | 1.840 | 2.012 | 1.713 | 1.798 | 1.439 | 1.644 | 1.603 | 2.051 | 1.774   | 11.08 |
| 88) | qfi | Trichlorotrifl...     | 0.038          | 0.053 | 0.123 | 0.204 | 0.573 | 0.858 | 2.520 | 5.013 | 0.023 | Coef R2 | 1.00  |
| 89) |     | Trans-1,2-Dich...     | 1.434          | 1.339 | 1.369 | 1.366 | 1.275 | 1.312 | 1.242 | 1.298 | 1.343 | 1.331   | 4.27  |
| 90) |     | 1,1-Dichloroet...     | 1.932          | 1.918 | 1.956 | 1.879 | 1.793 | 1.777 | 1.766 | 1.842 | 1.970 | 1.870   | 4.22  |
| 91) |     | Cis-1,2-Dichlo...     | 1.200          | 1.124 | 1.214 | 1.310 | 1.167 | 1.318 | 1.305 | 1.450 | 1.066 | 1.239   | 9.48  |
| 92) |     | Chloroform(sim)       | 2.304          | 2.342 | 2.425 | 2.166 | 2.367 | 2.224 | 2.444 | 2.554 | 2.251 | 2.342   | 5.19  |
| 93) |     | 1,2-Dichloroet...     | 1.664          | 1.594 | 1.758 | 1.530 | 1.577 | 1.481 | 1.633 | 1.748 | 1.359 | 1.594   | 7.98  |

|     |     |                       |                |       |       |       |       |       |       |       |  |       |         |       |  |  |
|-----|-----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|--|-------|---------|-------|--|--|
| 94) | int | 1,4-Difluorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |  |       |         |       |  |  |
| 95) |     | 1,2-dichloropr...     | 0.261          | 0.251 | 0.290 | 0.283 | 0.265 | 0.310 | 0.302 | 0.334 |  | 0.278 | 0.286   | 9.21  |  |  |
| 96) |     | Bromodichlorom...     | 0.823          | 0.824 | 0.884 | 0.817 | 0.892 | 0.858 | 0.954 | 1.007 |  | 0.779 | 0.871   | 8.31  |  |  |
| 97) |     | Trichloroethen...     | 0.380          | 0.421 | 0.456 | 0.482 | 0.404 | 0.487 | 0.445 | 0.492 |  | 0.373 | 0.438   | 10.41 |  |  |
| 98) | qfi | 1,4-Dioxane(sim)      | 0.030          | 0.048 | 0.089 | 0.212 | 0.433 | 1.163 | 2.382 | 5.029 |  |       | Coef R2 | 1.00  |  |  |
| 99) |     | cis-1,3-Dichlo...     | 0.442          | 0.422 | 0.398 | 0.489 | 0.448 | 0.587 | 0.568 |       |  | 0.400 | 0.469   | 15.55 |  |  |



## Response Factor Report Chem24

|        |                                         |                |       |       |       |       |       |       |       |       |         |       |
|--------|-----------------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|
| Method | Path : H:\AIR2019\CHEM24\METHODS\       |                |       |       |       |       |       |       |       |       |         |       |
| Method | File : 24AIR_1203.M                     |                |       |       |       |       |       |       |       |       |         |       |
| Title  | : VOA Standards for 5 point calibration |                |       |       |       |       |       |       |       |       |         |       |
| 100)   | 1,1,2-Trichlor...                       | 0.421          | 0.403 | 0.450 | 0.471 | 0.439 | 0.461 | 0.442 | 0.462 | 0.429 | 0.442   | 4.91  |
| 101)   | Dibromochlorom...                       | 0.822          | 0.723 | 0.964 | 0.916 | 0.915 | 0.925 | 0.960 | 0.997 | 0.980 | 0.911   | 9.57  |
| 102)   | 1,2-Dibromoeth...                       | 0.800          | 0.661 | 0.732 | 0.778 | 0.727 | 0.789 | 0.761 | 0.831 | 0.717 | 0.755   | 6.79  |
| 103)   | Tetrachloroeth...                       | 0.558          | 0.576 | 0.622 | 0.680 | 0.589 | 0.698 | 0.644 | 0.700 | 0.220 | 0.598   | 23.88 |
| 104)   | int Chlorobenzene-d5(sim)               | -----ISTD----- |       |       |       |       |       |       |       |       |         |       |
| 105)   | Bromoform(sim)                          | 1.215          | 1.267 | 1.474 | 1.552 | 1.567 | 1.611 | 1.617 | 1.497 | 1.295 | 1.455   | 10.68 |
| 106)   | 1,1,1,2-Tetrac...                       | 0.881          | 0.839 | 0.935 | 0.920 | 0.928 | 0.889 | 0.911 | 0.915 | 0.959 | 0.908   | 3.85  |
| 107)   | m,p-Xylene(sim)                         | 0.054          | 0.070 | 0.156 | 0.402 | 0.937 | 2.153 | 5.028 | 9.968 |       | Coef R2 | 1.00  |
| 108)   | 1,1,2,2-Tetrac...                       | 1.578          | 1.449 | 1.643 | 1.694 | 1.619 | 1.671 | 1.641 | 1.699 | 2.035 | 1.670   | 9.38  |
| 111)   | Benzyl chlorid...                       | 0.031          | 0.035 | 0.085 | 0.173 | 0.470 | 1.079 | 2.520 | 4.987 | 0.014 | Coef R2 | 1.00  |
| 112)   | 1,3-Dichlorobe...                       | 1.310          | 1.266 | 1.508 | 1.643 | 1.663 | 1.589 | 1.582 | 1.609 |       | 1.521   | 9.96  |
| 113)   | 1,4-Dichlorobe...                       | 0.030          | 0.038 | 0.095 | 0.216 | 0.506 | 1.034 | 2.478 | 5.004 |       | Coef R2 | 1.00  |
| 114)   | sec-Butylbenze...                       |                |       | 0.073 | 0.193 | 0.488 | 1.027 | 2.536 | 4.981 |       | Coef R2 | 1.00  |
| 115)   | 4-Isopropyltol...                       |                | 0.032 | 0.070 | 0.185 | 0.467 | 1.058 | 2.563 | 4.969 |       | Coef R2 | 1.00  |
| 116)   | 1,2-Dichlorobe...                       | 0.031          | 0.041 | 0.096 | 0.197 | 0.524 | 0.978 | 2.527 | 4.990 | 0.020 | Coef R2 | 1.00  |
| 117)   | n-Butylbenzene...                       | 0.023          | 0.031 | 0.075 | 0.171 | 0.498 | 1.020 | 2.607 | 4.954 |       | Coef R2 | 1.00  |
| 118)   | 1,2,4-Trichlor...                       | 0.013          | 0.020 | 0.061 | 0.190 | 0.357 | 1.356 | 2.352 | 5.020 | 0.008 | Coef R2 | 0.99  |
| 119)   | Hexachlorobuta...                       | 1.169          | 1.030 | 1.187 | 1.098 | 1.164 | 1.214 | 1.271 | 1.296 | 1.405 | 1.204   | 9.21  |

(#,\$,@)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

## Response Factor Report Chem24

Method Path : H:\AIR2019\CHEM24\METHODS\  
 Method File : 24AIR\_1207.M  
 Title : VOA Standards for 5 point calibration  
 Last Update : Wed Dec 11 09:11:44 2019  
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)

.035=1207\_04.D 0.05=1207\_05.D 0.1=1207\_06.D 0.2=1207\_14.D 0.5=1207\_07.D 1.0=1207\_13.D 2.5=1207\_08.D 5.0=1207\_09.D  
 10=1207\_15.D 25=1207\_10.D 40=1207\_11.D 0.02=1207\_03.D

| Compound                    | .035           | 0.05  | 0.1   | 0.2   | 0.5   | 1.0   | 2.5   | 5.0   | 10    | 25    | 40    | 0.02 | Avg   | %RSD  |
|-----------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| 1) Int Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |      |       |       |
| 2) Propylene                |                |       |       | 0.944 | 0.750 | 0.927 | 0.861 | 0.990 | 1.056 | 1.105 | 1.027 |      | 0.957 | 11.89 |
| 3) Dichlorodifluo...        |                | 0.423 | 0.436 | 0.419 | 0.527 | 0.518 | 0.539 | 0.465 | 0.374 | 0.281 |       |      | 0.443 | 18.63 |
| 4) Chloromethane            |                |       | 1.124 | 1.101 | 1.073 | 0.868 | 0.813 | 0.701 | 0.570 | 0.548 |       |      | 0.850 | 27.46 |
| 5) 1,2-Dichlorote...        |                |       | 3.019 | 2.947 | 3.270 | 2.648 | 2.541 | 2.197 | 2.007 | 1.765 |       |      | 2.549 | 20.66 |
| 6) Vinyl Chloride           |                | 0.884 | 1.153 | 1.145 | 1.199 | 0.957 | 0.926 | 0.860 | 0.862 | 0.810 |       |      | 0.977 | 15.13 |
| 7) 1,3-Butadiene            |                | 0.555 | 0.621 | 0.592 | 0.713 | 0.581 | 0.580 | 0.534 | 0.528 | 0.497 |       |      | 0.578 | 10.92 |
| 8) Bromomethane             |                | 1.996 | 1.729 | 1.820 | 1.559 | 1.507 | 1.451 | 1.393 | 1.376 | 1.223 |       |      | 1.561 | 15.63 |
| 9) Chloroethane             |                | 0.755 | 0.691 | 0.611 | 0.515 | 0.472 | 0.482 | 0.454 | 0.466 | 0.435 |       |      | 0.542 | 21.25 |
| 10) Ethanol                 |                |       |       |       | 0.341 | 0.280 | 0.269 | 0.263 | 0.238 | 0.209 |       |      | 0.267 | 16.62 |
| 12) Acetone                 |                |       |       |       | 1.795 | 1.760 | 1.629 | 1.559 | 1.451 | 1.279 |       |      | 1.579 | 12.30 |
| 13) Trichlorofluor...       |                | 4.674 | 4.521 | 4.907 | 3.567 | 3.910 | 3.566 | 3.193 | 2.863 | 2.366 |       |      | 3.730 | 23.01 |
| 14) Isopropylalcohol        |                |       | 1.865 | 1.895 | 1.494 | 1.515 | 1.468 | 1.416 | 1.322 | 1.187 |       |      | 1.520 | 16.20 |
| 15) Acrylonitrile           |                |       | 0.485 | 0.448 | 0.485 | 0.421 | 0.447 | 0.477 | 0.467 | 0.463 |       |      | 0.462 | 4.77  |
| 16) 1,1-Dichloroet...       |                | 2.028 | 2.042 | 2.140 | 1.769 | 1.808 | 1.755 | 1.719 | 1.619 | 1.446 |       |      | 1.814 | 12.20 |
| 17) Methylene Chlo...       |                |       | 1.492 | 1.329 | 1.083 | 1.092 | 1.096 | 1.073 | 1.020 | 0.919 |       |      | 1.138 | 16.09 |
| 20) Carbon Disulfide        |                |       |       | 3.905 | 3.247 | 3.264 | 3.153 | 3.065 | 2.852 | 2.554 |       |      | 3.148 | 13.25 |
| 21) Trichlorotrifl...       |                |       | 3.231 | 3.286 | 2.594 | 2.673 | 2.486 | 2.330 | 2.200 | 1.952 |       |      | 2.594 | 18.08 |
| 22) Trans-1,2-Dich...       |                | 1.403 | 1.546 | 1.508 | 1.379 | 1.306 | 1.383 | 1.410 | 1.332 | 1.302 |       |      | 1.397 | 6.03  |
| 23) 1,1-Dichloroet...       |                | 1.921 | 1.815 | 1.873 | 1.785 | 1.672 | 1.752 | 1.771 | 1.737 | 1.662 |       |      | 1.776 | 4.80  |
| 24) Methyl tert-bu...       |                |       | 2.414 | 2.241 | 2.451 | 2.146 | 2.192 | 2.437 | 2.212 | 2.123 |       |      | 2.277 | 5.94  |
| 25) Methyl Ethyl K...       |                |       | 1.592 | 1.523 | 1.549 | 1.455 | 1.661 | 1.756 | 1.834 | 1.785 |       |      | 1.644 | 8.31  |
| 26) Cis-1,2-Dichlo...       |                | 1.234 | 1.308 | 1.273 | 1.372 | 1.283 | 1.436 | 1.545 | 1.554 | 1.471 |       |      | 1.386 | 8.70  |
| 27) Hexane                  |                |       | 1.197 | 1.038 | 1.129 | 0.986 | 1.021 | 1.202 | 1.099 | 1.094 |       |      | 1.096 | 7.21  |
| 28) Chloroform              |                | 2.383 | 2.382 | 2.517 | 2.395 | 2.449 | 2.520 | 2.530 | 2.452 | 2.277 |       |      | 2.434 | 3.42  |
| 29) Ethyl acetate           |                |       | 1.553 | 1.713 | 1.613 | 1.519 | 1.578 | 1.597 | 1.569 | 1.511 |       |      | 1.582 | 4.04  |
| 30) Tetrahydrofuran         |                |       | 0.558 | 0.546 | 0.616 | 0.560 | 0.604 | 0.620 | 0.622 | 0.605 |       |      | 0.591 | 5.29  |
| 31) 1,2-Dichloroet...       |                | 1.629 | 1.793 | 1.872 | 1.647 | 1.786 | 1.832 | 1.852 | 1.857 | 1.685 |       |      | 1.773 | 5.33  |
| 32) 1,1,1-Trichlor...       |                | 2.723 | 2.655 | 2.799 | 2.458 | 2.497 | 2.498 | 2.409 | 2.331 | 2.172 |       |      | 2.505 | 7.84  |
| 33) Benzene                 |                | 2.092 | 2.244 | 2.260 | 2.412 | 2.215 | 2.363 | 2.357 | 2.404 | 2.351 |       |      | 2.300 | 4.57  |
| 34) Carbon Tetrach...       |                | 2.993 | 2.947 | 3.146 | 2.847 | 2.986 | 3.026 | 2.904 | 2.792 | 2.590 |       |      | 2.915 | 5.47  |
| 35) Cyclohexane             |                |       | 0.902 | 0.869 | 1.006 | 0.985 | 1.091 | 1.153 | 1.175 | 1.131 |       |      | 1.039 | 11.17 |
| 36) Int 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |      |       |       |
| 37) 1,2-dichloropr...       |                |       | 0.271 | 0.305 | 0.307 | 0.329 | 0.337 | 0.366 | 0.390 | 0.379 | 0.355 |      | 0.338 | 11.48 |
| 38) Bromodichlorom...       |                |       | 0.999 | 0.931 | 1.023 | 0.961 | 1.051 | 1.064 | 1.072 | 0.999 | 0.898 |      | 1.000 | 6.05  |
| 39) Trichloroethene         |                |       | 0.431 | 0.510 | 0.459 | 0.523 | 0.487 | 0.529 | 0.575 | 0.572 | 0.547 |      | 0.515 | 9.47  |
| 41) 1,4-Dioxane             |                |       |       | 0.143 | 0.132 | 0.191 | 0.195 | 0.222 | 0.245 | 0.250 | 0.236 |      | 0.202 | 22.45 |
| 43) Heptane                 |                |       | 0.310 | 0.361 | 0.355 | 0.416 | 0.416 | 0.445 | 0.462 | 0.451 | 0.415 |      | 0.403 | 12.63 |
| 44) cis-1,3-Dichlo...       |                |       | 0.363 | 0.462 | 0.473 | 0.578 | 0.617 | 0.715 | 0.791 | 0.786 | 0.735 |      | 0.613 | 25.33 |
| 45) 4-Methyl-2-pen...       |                |       | 0.435 | 0.494 | 0.550 | 0.628 | 0.688 | 0.713 | 0.706 | 0.657 | 0.591 |      | 0.607 | 16.09 |
| 46) trans-1,3-Dich...       |                |       | 0.448 | 0.483 | 0.545 | 0.604 | 0.618 | 0.640 | 0.628 | 0.606 | 0.554 |      | 0.570 | 11.82 |

## Response Factor Report Chem24

Method Path : H:\AIR2019\CHEM24\METHODS\

Method File : 24AIR\_1207.M

Title : VOA Standards for 5 point calibration

|     |                   |       |       |       |       |       |       |       |       |       |       |       |
|-----|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 47) | 1,1,2-Trichlor... | 0.439 | 0.477 | 0.494 | 0.479 | 0.479 | 0.467 | 0.487 | 0.490 | 0.460 | 0.475 | 3.60  |
| 48) | Toluene           | 0.738 | 0.807 | 0.812 | 1.046 | 1.100 | 1.209 | 1.267 | 1.207 | 1.123 | 1.034 | 19.21 |
| 49) | Dibromochlorom... | 1.063 | 1.083 | 1.166 | 1.094 | 1.125 | 1.116 | 1.144 | 1.146 | 1.049 | 1.110 | 3.61  |
| 50) | 2-Hexanone(MBK)   |       | 0.448 | 0.458 | 0.578 | 0.677 | 0.774 | 0.857 | 0.839 | 0.753 | 0.673 | 24.08 |
| 51) | 1,2-Dibromoeth... | 0.754 | 0.761 | 0.788 | 0.812 | 0.827 | 0.877 | 0.914 | 0.933 | 0.871 | 0.837 | 7.74  |
| 52) | Tetrachloroethene | 0.672 | 0.678 | 0.676 | 0.745 | 0.728 | 0.759 | 0.799 | 0.810 | 0.755 | 0.736 | 7.05  |

|     |                       |                |       |       |       |       |       |       |       |       |         |       |
|-----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|
| 53) | Int Chlorobenzene-d5  | -----ISTD----- |       |       |       |       |       |       |       |       |         |       |
| 54) | 1,1,1,2-Tetrac...     | 0.970          | 1.025 | 1.060 | 1.016 | 0.962 | 0.948 | 0.924 | 0.902 | 0.877 | 0.965   | 6.24  |
| 55) | Chlorobenzene         | 1.542          | 1.660 | 1.593 | 1.637 | 1.569 | 1.646 | 1.658 | 1.600 | 1.560 | 1.607   | 2.78  |
| 56) | Ethylbenzene          | 1.842          | 2.147 | 2.393 | 2.540 | 2.470 | 2.532 | 2.474 | 2.345 | 2.213 | 2.328   | 9.78  |
| 57) | m,p-Xylene            | 1.121          | 1.377 | 1.588 | 1.504 | 1.877 | 1.966 | 1.937 | 1.830 | 1.712 | 1.657   | 17.19 |
| 58) | Bromoform             | 1.630          | 1.824 | 1.868 | 1.935 | 1.912 | 1.628 | 1.609 | 1.558 | 1.451 | 1.713   | 10.17 |
| 59) | Styrene               |                | 0.779 | 0.951 | 1.336 | 1.343 | 1.423 | 1.424 | 1.420 | 1.378 | 1.257   | 19.77 |
| 60) | 1,1,2,2-Tetrac...     | 1.743          | 1.885 | 1.800 | 1.865 | 1.759 | 1.767 | 1.741 | 1.621 | 1.532 | 1.746   | 6.35  |
| 61) | o-Xylene              |                | 1.223 | 1.307 | 1.819 | 1.963 | 2.281 | 2.418 | 2.244 | 2.116 | 1.921   | 23.24 |
| 62) | Surr% Bromofluorob... | 1.433          | 1.448 | 1.470 | 1.491 | 1.498 | 1.533 | 1.584 | 1.686 | 1.710 | 1.539   | 6.55  |
| 64) | Isopropylbenzene      | 1.354          | 1.647 | 1.767 | 2.463 | 2.635 | 2.878 | 2.950 | 2.782 | 2.581 | 2.340   | 25.28 |
| 66) | 4-Ethyltoluene        | 1.585          | 2.012 | 2.335 | 2.778 | 2.728 | 2.744 | 2.720 | 2.590 | 2.394 | 2.432   | 16.68 |
| 67) | 1,3,5-Trimethy...     | 1.328          | 1.639 | 1.846 | 2.235 | 2.246 | 2.359 | 2.389 | 2.335 | 2.190 | 2.063   | 18.09 |
| 68) | 1,2,4-Trimethy...     | 1.281          | 1.453 | 1.883 | 2.299 | 2.343 | 2.442 | 2.433 | 2.285 | 2.117 | 2.060   | 20.90 |
| 70) | qfi Benzyl chloride   | 0.051          | 0.136 | 0.411 | 0.928 | 2.502 | 5.164 | 10.19 | 25.03 | 39.87 | Coef R2 | 1.00  |
| 71) | 1,3-Dichlorobe...     | 1.355          | 1.813 | 1.909 | 1.860 | 1.744 | 1.764 | 1.673 | 1.587 | 1.434 | 1.682   | 11.29 |
| 72) | 1,4-Dichlorobe...     | 1.181          | 1.529 | 1.586 | 1.701 | 1.693 | 1.809 | 1.812 | 1.788 | 1.609 | 1.634   | 12.11 |
| 73) | sec-Butylbenzene      | 1.879          | 2.250 | 2.727 | 3.142 | 3.193 | 3.326 | 3.287 | 3.064 | 2.814 | 2.853   | 17.46 |
| 74) | 4-Isopropyltol...     | 1.280          | 1.610 | 2.083 | 2.474 | 2.655 | 2.820 | 2.844 | 2.642 | 2.392 | 2.311   | 23.75 |
| 75) | 1,2-Dichlorobe...     | 1.174          | 1.684 | 1.630 | 1.626 | 1.637 | 1.704 | 1.647 | 1.565 | 1.387 | 1.562   | 11.05 |
| 76) | n-Butylbenzene        | 1.210          | 1.630 | 1.967 | 2.212 | 2.363 | 2.399 | 2.295 | 2.045 | 1.826 | 1.994   | 19.56 |
| 77) | qfi 1,2,4-Trichlor... |                | 0.156 | 0.302 | 1.027 | 2.297 | 5.517 | 9.976 | 24.92 |       | Coef R2 | 1.00  |
| 79) | qfi Hexachlorobuta... |                | 0.227 | 0.521 | 1.108 | 2.704 | 5.291 | 9.336 | 23.80 | 0.0   | Coef R2 | 1.00  |

|     |                           |                |       |       |       |       |       |       |       |  |       |       |       |  |
|-----|---------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|--|
| 80) | int Bromochloromethane... | -----ISTD----- |       |       |       |       |       |       |       |  |       |       |       |  |
| 81) | 1,2-Dichlorote...         | 2.153          | 2.348 | 2.610 | 2.920 | 2.807 | 3.155 | 2.542 | 2.411 |  | 2.829 | 2.642 | 11.92 |  |
| 82) | Vinyl Chloride...         | 0.846          | 0.899 | 1.019 | 1.207 | 1.140 | 1.237 | 1.001 | 0.962 |  |       | 1.039 | 13.72 |  |
| 83) | Bromomethane(sim)         | 1.497          | 1.834 | 1.888 | 1.856 | 1.733 | 1.504 | 1.446 | 1.377 |  | 1.906 | 1.671 | 12.73 |  |
| 84) | Trichlorofluor...         | 4.099          | 4.417 | 4.809 | 4.439 | 4.869 | 3.550 | 3.815 | 3.402 |  | 6.005 | 4.378 | 18.26 |  |
| 85) | 1,1,1-Trichlor...         | 2.040          | 2.238 | 2.617 | 2.558 | 2.665 | 2.371 | 2.397 | 2.370 |  | 2.641 | 2.433 | 8.58  |  |
| 86) | Carbon Tetrach...         | 2.439          | 2.760 | 3.013 | 2.918 | 3.110 | 2.769 | 2.967 | 2.967 |  | 3.057 | 2.889 | 7.12  |  |
| 87) | 1,1-Dichloroet...         | 1.330          | 1.713 | 1.950 | 1.974 | 2.038 | 1.707 | 1.736 | 1.666 |  | 2.217 | 1.814 | 14.33 |  |
| 88) | Trichlorotrifl...         | 2.398          | 2.593 | 3.325 | 3.159 | 3.296 | 2.582 | 2.637 | 2.422 |  | 3.273 | 2.854 | 13.96 |  |
| 89) | Trans-1,2-Dich...         | 1.347          | 1.298 | 1.349 | 1.495 | 1.436 | 1.328 | 1.254 | 1.311 |  | 1.621 | 1.382 | 8.34  |  |
| 90) | 1,1-Dichloroet...         | 1.591          | 1.761 | 1.874 | 1.948 | 1.900 | 1.866 | 1.758 | 1.812 |  | 2.043 | 1.839 | 7.04  |  |
| 91) | Cis-1,2-Dichlo...         | 1.036          | 1.005 | 1.144 | 1.265 | 1.212 | 1.324 | 1.232 | 1.363 |  | 1.178 | 1.195 | 10.06 |  |
| 92) | Chloroform(sim)           | 2.018          | 2.239 | 2.442 | 2.468 | 2.542 | 2.413 | 2.512 | 2.548 |  | 2.568 | 2.417 | 7.45  |  |
| 93) | 1,2-Dichloroet...         | 1.202          | 1.541 | 1.566 | 1.734 | 1.783 | 1.589 | 1.714 | 1.739 |  | 2.044 | 1.657 | 13.74 |  |

|     |     |                       |                |       |       |       |       |       |       |       |  |       |         |       |
|-----|-----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|--|-------|---------|-------|
| 94) | int | 1,4-Difluorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |  |       |         |       |
| 95) |     | 1,2-dichloropr...     | 0.166          | 0.228 | 0.242 | 0.270 | 0.275 | 0.299 | 0.300 | 0.329 |  | 0.283 | 0.266   | 18.16 |
| 96) |     | Bromodichlorom...     | 0.720          | 0.799 | 0.889 | 0.898 | 0.976 | 0.927 | 1.001 | 1.011 |  | 0.916 | 0.904   | 10.47 |
| 97) |     | Trichloroethen...     | 0.366          | 0.418 | 0.385 | 0.454 | 0.411 | 0.474 | 0.434 | 0.475 |  | 0.486 | 0.434   | 9.67  |
| 98) | qfi | 1,4-Dioxane(sim)      | 0.023          | 0.041 | 0.081 | 0.191 | 0.428 | 1.124 | 2.503 | 4.988 |  |       | Coef R2 | 1.00  |
| 99) | qfi | cis-1,3-Dichlo...     | 0.022          | 0.042 | 0.077 | 0.195 | 0.480 | 1.096 | 2.474 |       |  | 0.012 | Coef R2 | 1.00  |

# Response Factor Report Chem24

```

Method Path : H:\AIR2019\CHEM24\METHODS\
Method File : 24AIR_1207.M
Title : VOA Standards for 5 point calibration
100) 1,1,2-Trichlor... 0.365 0.390 0.436 0.470 0.482 0.479 0.461 0.465 0.439 0.443 9.22
101) Dibromochlorom... 0.709 0.858 0.928 0.973 1.045 0.990 1.001 1.003 0.905 0.935 10.93
102) 1,2-Dibromoeth... 0.546 0.618 0.691 0.755 0.769 0.790 0.787 0.834 0.664 0.717 13.09
103) Tetrachloroeth... 0.389 0.477 0.600 0.609 0.604 0.674 0.648 0.681 0.714 0.471 0.587 18.16

104) int Chlorobenzene-d5(sim) -----ISTD-----
105) Bromoform(sim) 1.080 1.432 1.452 1.651 1.708 1.786 1.751 1.509 0.904 1.475 20.68
106) 1,1,1,2-Tetrac... 0.755 0.868 0.966 1.007 1.035 1.004 0.955 0.954 0.927 0.941 9.06
107) qfi m,p-Xylene(sim) 0.041 0.069 0.136 0.331 0.943 2.194 5.122 9.926 Coef R2 1.00
108) 1,1,2,2-Tetrac... 1.321 1.464 1.650 1.795 1.767 1.846 1.730 1.749 1.679 1.667 10.18
111) qfi Benzyl chlorid... 0.020 0.029 0.079 0.183 0.492 1.039 2.567 4.972 0.011 Coef R2 1.00
112) 1,3-Dichlorobe... 1.133 1.237 1.460 1.851 1.947 1.914 1.791 1.795 1.641 19.43
113) qf 1,4-Dichlorobe... 0.022 0.033 0.075 0.192 0.493 1.048 2.478 5.003 Coef R2 1.00
114) qfi sec-Butylbenze... 0.063 0.158 0.475 1.063 2.578 4.960 Coef R2 1.00
115) qfi 4-Isopropyltol... 0.025 0.059 0.148 0.468 1.078 2.613 4.948 Coef R2 1.00
116) qfi 1,2-Dichlorobe... 0.022 0.036 0.082 0.211 0.522 1.023 2.499 4.995 0.016 Coef R2 1.00
117) qfi n-Butylbenzene... 0.016 0.023 0.061 0.162 0.482 1.064 2.634 4.937 Coef R2 1.00
118) qf 1,2,4-Trichlor... 0.011 0.017 0.043 0.196 0.375 1.181 2.441 5.008 0.008 Coef R2 1.00
119) Hexachlorobuta... 1.228 1.142 1.327 1.711 1.578 1.668 1.583 1.512 1.568 1.480 13.49

-----
(#,$,@)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

```

6B  
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs  
Lab Code: Phoenix  
Instrument ID: CHEM24  
Heated Purge (Y/N): Y  
GC Column: \_\_\_\_\_

Client: CEG  
SDG No.: GCE81145  
Calibration Date From: 12/03/19 19:28  
Calibration Date Thru: 12/04/19 00:43  
Method File: 24AIR\_1203.M

Laboratory File Ids

| RRF1                          | 1203 08.D | RRF2 | 1203 09.D    | RRF3          | 1203 10.D    | RRF4        | 1203 11.D   | RRF5        | 1203 19.D | RRF6        | 1203 12.D |             |             |             |          |          |
|-------------------------------|-----------|------|--------------|---------------|--------------|-------------|-------------|-------------|-----------|-------------|-----------|-------------|-------------|-------------|----------|----------|
| RRF7                          | 1203 18.D | RRF8 | 1203 13.D    | RRF9          | 1203 14.D    | RRF10       | 1203 20.D   | RRF11       | 1203 15.D | RRF12       | 1203 16.D |             |             |             |          |          |
| COMPOUND                      |           |      | RRF1<br>0.02 | RRF2<br>0.035 | RRF3<br>0.05 | RRF4<br>0.1 | RRF5<br>0.2 | RRF6<br>0.5 | RRF7<br>1 | RRF8<br>2.5 | RRF9<br>5 | RRF10<br>10 | RRF11<br>25 | RRF12<br>40 | —<br>RRF | %<br>RSD |
| Propylene                     |           |      |              |               |              |             | 0.698       | 0.812       | 0.851     | 0.874       | 1.010     | 1.254       | 1.000       | 0.919       | 0.927    | 17.94    |
| Dichlorodifluoromethane       |           |      |              |               |              | 0.426       | 0.427       | 0.455       | 0.438     | 0.480       | 0.497     | 0.476       | 0.340       | 0.262       | 0.422    | 17.90    |
| Chloromethane                 |           |      |              |               |              |             | 0.952       | 0.920       | 0.932     | 0.864       | 0.815     | 0.727       | 0.608       | 0.546       | 0.796    | 19.34    |
| 1,2-Dichlorotetrafluoroethane |           |      |              |               |              |             | 2.639       | 2.693       | 2.826     | 2.545       | 2.406     | 2.255       | 1.766       | 1.585       | 2.339    | 19.14    |
| Vinyl Chloride                |           |      |              |               |              | 1.019       | 1.041       | 1.034       | 1.106     | 0.951       | 0.926     | 0.897       | 0.779       | 0.736       | 0.943    | 13.11    |
| 1,3-Butadiene                 |           |      |              |               |              | 0.550       | 0.633       | 0.570       | 0.656     | 0.587       | 0.565     | 0.558       | 0.482       | 0.448       | 0.561    | 11.62    |
| Bromomethane                  |           |      |              |               |              | 2.136       | 1.329       | 1.531       | 1.293     | 1.369       | 1.348     | 1.230       | 1.179       | 1.073       | 1.388    | 22.25    |
| Chloroethane                  |           |      |              |               |              | 0.775       | 0.490       | 0.521       | 0.435     | 0.447       | 0.445     | 0.413       | 0.409       | 0.380       | 0.480    | 24.73    |
| Ethanol                       |           |      |              |               |              |             |             | 0.338       | 0.249     | 0.287       | 0.264     | 0.225       | 0.205       | 0.169       | 0.248    | 22.43    |
| Acetone                       |           |      |              |               |              |             |             |             | 1.695     | 1.831       | 1.808     | 1.573       | 1.449       | 1.328       | 1.614    | 12.46    |
| Trichlorofluoromethane        |           |      |              |               |              | 4.456       | 3.147       | 4.252       | 2.926     | 3.640       | 3.356     | 2.658       | 2.532       | 2.159       | 3.236    | 23.91    |
| Isopropylalcohol              |           |      |              |               |              |             | 1.474       | 1.485       | 1.464     | 1.409       | 1.484     | 1.406       | 1.248       | 1.100       | 1.384    | 10.03    |
| Acrylonitrile                 |           |      |              |               |              |             | 0.527       | 0.448       | 0.461     | 0.461       | 0.472     | 0.477       | 0.445       | 0.443       | 0.467    | 5.91     |
| 1,1-Dichloroethene            |           |      |              |               |              | 2.085       | 1.730       | 1.889       | 1.452     | 1.725       | 1.672     | 1.488       | 1.419       | 1.267       | 1.637    | 15.62    |
| Methylene Chloride            |           |      |              |               |              |             | 1.151       | 1.151       | 1.023     | 1.041       | 1.070     | 1.018       | 0.941       | 0.890       | 1.036    | 8.83     |
| Carbon Disulfide              |           |      |              |               |              |             |             | 3.579       | 2.687     | 3.087       | 2.966     | 2.661       | 2.501       | 2.216       | 2.814    | 15.75    |
| Trichlorotrifluoroethane      |           |      |              |               |              |             | 2.491       | 2.870       | 2.102     | 2.463       | 2.317     | 1.973       | 1.894       | 1.703       | 2.227    | 17.08    |
| Trans-1,2-Dichloroethene      |           |      |              |               |              | 1.418       | 1.380       | 1.340       | 1.324     | 1.306       | 1.354     | 1.310       | 1.230       | 1.205       | 1.319    | 5.13     |
| 1,1-Dichloroethane            |           |      |              |               |              | 1.952       | 1.764       | 1.753       | 1.684     | 1.697       | 1.765     | 1.734       | 1.638       | 1.591       | 1.731    | 5.89     |
| Methyl tert-butyl ether(MTBE) |           |      |              |               |              |             | 2.412       | 2.269       | 2.386     | 2.225       | 2.397     | 2.218       | 2.057       | 2.025       | 2.248    | 6.64     |
| Methyl Ethyl Ketone           |           |      |              |               |              |             | 1.015       | 1.109       | 1.127     | 1.285       | 1.465     | 1.448       | 1.444       | 1.320       | 1.277    | 13.70    |
| Cis-1,2-Dichloroethene        |           |      |              |               |              | 1.258       | 1.314       | 1.226       | 1.330     | 1.369       | 1.512     | 1.531       | 1.447       | 1.386       | 1.375    | 7.72     |
| Hexane                        |           |      |              |               |              |             | 1.312       | 0.992       | 1.108     | 1.403       | 1.473     | 1.138       | 1.343       | 1.337       | 1.263    | 13.09    |
| Chloroform                    |           |      |              |               |              | 2.353       | 2.033       | 2.328       | 2.134     | 2.411       | 2.516     | 2.369       | 2.242       | 2.130       | 2.279    | 6.85     |
| Ethyl acetate                 |           |      |              |               |              |             | 1.519       | 1.581       | 1.533     | 1.579       | 1.660     | 1.518       | 1.469       | 1.417       | 1.535    | 4.84     |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B  
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs  
 Lab Code: Phoenix  
 Instrument ID: CHEM24  
 Heated Purge (Y/N): Y  
 GC Column: \_\_\_\_\_

Client: CEG  
 SDG No.: GCE81145  
 Calibration Date From: 12/03/19 19:28  
 Calibration Date Thru: 12/04/19 00:43  
 Method File: 24AIR\_1203.M

Laboratory File Ids

| RRF1                       | 1203 08.D | RRF2         | 1203 09.D     | RRF3         | 1203 10.D   | RRF4        | 1203 11.D   | RRF5      | 1203 19.D   | RRF6      | 1203 12.D   |             |             |          |          |
|----------------------------|-----------|--------------|---------------|--------------|-------------|-------------|-------------|-----------|-------------|-----------|-------------|-------------|-------------|----------|----------|
| RRF7                       | 1203 18.D | RRF8         | 1203 13.D     | RRF9         | 1203 14.D   | RRF10       | 1203 20.D   | RRF11     | 1203 15.D   | RRF12     | 1203 16.D   |             |             |          |          |
| COMPOUND                   |           | RRF1<br>0.02 | RRF2<br>0.035 | RRF3<br>0.05 | RRF4<br>0.1 | RRF5<br>0.2 | RRF6<br>0.5 | RRF7<br>1 | RRF8<br>2.5 | RRF9<br>5 | RRF10<br>10 | RRF11<br>25 | RRF12<br>40 | —<br>RRF | %<br>RSD |
| Tetrahydrofuran            |           |              |               |              |             | 0.587       | 0.576       | 0.611     | 0.597       | 0.671     | 0.629       | 0.598       | 0.581       | 0.606    | 5.17     |
| 1,2-Dichloroethane         |           |              |               |              | 1.822       | 1.545       | 1.657       | 1.495     | 1.714       | 1.823     | 1.686       | 1.685       | 1.553       | 1.664    | 7.00     |
| 1,1,1-Trichloroethane      |           |              |               |              | 2.598       | 2.312       | 2.551       | 2.263     | 2.415       | 2.420     | 2.219       | 2.136       | 2.027       | 2.327    | 8.08     |
| Benzene                    |           |              |               |              | 2.150       | 2.352       | 2.166       | 2.420     | 2.235       | 2.372     | 2.368       | 2.277       | 2.250       | 2.288    | 4.19     |
| Carbon Tetrachloride       |           |              |               |              | 2.955       | 2.397       | 2.803       | 2.473     | 2.849       | 2.929     | 2.666       | 2.539       | 2.372       | 2.665    | 8.57     |
| Cyclohexane                |           |              |               |              |             | 1.000       | 0.911       | 1.043     | 1.051       | 1.164     | 1.182       | 1.125       | 1.101       | 1.072    | 8.40     |
| 1,2-dichloropropane        |           |              |               |              | 0.310       | 0.308       | 0.294       | 0.335     | 0.333       | 0.370     | 0.373       | 0.348       | 0.332       | 0.334    | 8.14     |
| Bromodichloromethane       |           |              |               |              | 0.936       | 0.815       | 0.932       | 0.895     | 1.000       | 1.054     | 0.947       | 0.878       | 0.800       | 0.917    | 8.90     |
| Trichloroethene            |           |              |               |              | 0.505       | 0.525       | 0.449       | 0.527     | 0.491       | 0.544     | 0.548       | 0.513       | 0.493       | 0.511    | 6.00     |
| 1,4-Dioxane                |           |              |               |              |             | 0.189       | 0.150       | 0.210     | 0.190       | 0.228     | 0.238       | 0.221       | 0.201       | 0.203    | 13.65    |
| Heptane                    |           |              |               |              | 0.365       | 0.387       | 0.368       | 0.423     | 0.418       | 0.462     | 0.428       | 0.407       | 0.382       | 0.404    | 7.87     |
| cis-1,3-Dichloropropene    |           |              |               |              | 0.440       | 0.532       | 0.498       | 0.635     | 0.624       | 0.750     | 0.760       | 0.721       | 0.668       | 0.625    | 18.20    |
| 4-Methyl-2-pentanone(MIBK) |           |              |               |              | 0.490       | 0.568       | 0.575       | 0.631     | 0.675       | 0.741     | 0.618       | 0.590       | 0.526       | 0.602    | 12.60    |
| trans-1,3-Dichloropropene  |           |              |               |              | 0.499       | 0.535       | 0.534       | 0.574     | 0.584       | 0.613     | 0.562       | 0.534       | 0.497       | 0.548    | 7.08     |
| 1,1,2-Trichloroethane      |           |              |               |              | 0.467       | 0.468       | 0.439       | 0.469     | 0.443       | 0.473     | 0.448       | 0.433       | 0.414       | 0.451    | 4.49     |
| Toluene                    |           |              |               |              | 0.806       | 0.974       | 0.895       | 1.132     | 1.114       | 1.231     | 1.193       | 1.090       | 1.020       | 1.051    | 13.29    |
| Dibromochloromethane       |           |              |               |              | 1.069       | 0.996       | 1.017       | 1.001     | 1.058       | 1.105     | 1.038       | 1.010       | 0.923       | 1.024    | 5.08     |
| 2-Hexanone(MBK)            |           |              |               |              |             | 0.521       | 0.492       | 0.632     | 0.663       | 0.817     | 0.771       | 0.747       | 0.665       | 0.664    | 17.34    |
| 1,2-Dibromoethane(EDB)     |           |              |               |              | 0.741       | 0.777       | 0.733       | 0.800     | 0.784       | 0.864     | 0.851       | 0.821       | 0.781       | 0.795    | 5.64     |
| Tetrachloroethene          |           |              |               |              | 0.689       | 0.739       | 0.654       | 0.757     | 0.710       | 0.776     | 0.756       | 0.718       | 0.675       | 0.719    | 5.72     |
| 1,1,1,2-Tetrachloroethane  |           |              |               |              | 1.048       | 0.943       | 0.945       | 0.896     | 0.909       | 0.930     | 0.849       | 0.802       | 0.793       | 0.902    | 8.81     |
| Chlorobenzene              |           |              |               |              | 1.467       | 1.554       | 1.432       | 1.502     | 1.484       | 1.604     | 1.571       | 1.448       | 1.440       | 1.500    | 4.15     |
| Ethylbenzene               |           |              |               |              | 2.101       | 2.359       | 2.217       | 2.383     | 2.381       | 2.481     | 2.272       | 2.093       | 1.982       | 2.252    | 7.38     |
| m,p-Xylene                 |           |              |               |              | 1.346       | 1.719       | 1.613       | 1.498     | 1.831       | 1.943     | 1.808       | 1.621       | 1.539       | 1.658    | 11.23    |
| Bromoform                  |           |              |               |              | 1.626       | 1.688       | 1.708       | 1.736     | 1.746       | 1.624     | 1.474       | 1.398       | 1.317       | 1.591    | 9.87     |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Phoenix Environmental Laboratories, Inc.

6B  
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs  
Lab Code: Phoenix  
Instrument ID: CHEM24  
Heated Purge (Y/N): Y  
GC Column: \_\_\_\_\_

Client: CEG  
SDG No.: GCE81145  
Calibration Date From: 12/03/19 19:28  
Calibration Date Thru: 12/04/19 00:43  
Method File: 24AIR\_1203.M

Laboratory File Ids

| RRF1                               | 1203 08.D | RRF2         | 1203 09.D     | RRF3         | 1203 10.D   | RRF4        | 1203 11.D   | RRF5      | 1203 19.D   | RRF6      | 1203 12.D   |             |             |          |          |
|------------------------------------|-----------|--------------|---------------|--------------|-------------|-------------|-------------|-----------|-------------|-----------|-------------|-------------|-------------|----------|----------|
| RRF7                               | 1203 18.D | RRF8         | 1203 13.D     | RRF9         | 1203 14.D   | RRF10       | 1203 20.D   | RRF11     | 1203 15.D   | RRF12     | 1203 16.D   |             |             |          |          |
| COMPOUND                           |           | RRF1<br>0.02 | RRF2<br>0.035 | RRF3<br>0.05 | RRF4<br>0.1 | RRF5<br>0.2 | RRF6<br>0.5 | RRF7<br>1 | RRF8<br>2.5 | RRF9<br>5 | RRF10<br>10 | RRF11<br>25 | RRF12<br>40 | —<br>RRF | %<br>RSD |
| Styrene                            |           |              |               |              |             | 1.125       | 1.017       | 1.381     | 1.305       | 1.391     | 1.340       | 1.254       | 1.244       | 1.257    | 10.33    |
| 1,1,2,2-Tetrachloroethane          |           |              |               |              | 1.680       | 1.727       | 1.613       | 1.705     | 1.656       | 1.728     | 1.601       | 1.460       | 1.400       | 1.619    | 7.23     |
| o-Xylene                           |           |              |               |              |             | 1.670       | 1.410       | 1.984     | 2.021       | 2.299     | 2.261       | 2.052       | 1.914       | 1.952    | 15.09    |
| Isopropylbenzene                   |           |              |               |              | 1.578       | 2.210       | 2.018       | 2.614     | 2.614       | 2.909     | 2.756       | 2.518       | 2.397       | 2.402    | 17.09    |
| 4-Ethyltoluene                     |           |              |               |              | 1.904       | 2.396       | 2.392       | 2.683     | 2.598       | 2.702     | 2.469       | 2.300       | 2.159       | 2.400    | 10.72    |
| 1,3,5-Trimethylbenzene             |           |              |               |              | 1.545       | 2.002       | 1.945       | 2.200     | 2.164       | 2.282     | 2.215       | 2.075       | 1.992       | 2.047    | 10.77    |
| 1,2,4-Trimethylbenzene             |           |              |               |              | 1.317       | 1.825       | 1.899       | 2.208     | 2.232       | 2.337     | 2.117       | 2.002       | 1.853       | 1.977    | 15.48    |
| Benzyl chloride qfi                |           |              |               |              | 0.053       | 0.110       | 0.308       | 0.761     | 2.100       | 5.253     | 10.400      | 26.220      | 39.100      | Coef R2  | 1.00     |
| 1,3-Dichlorobenzene                |           |              |               |              | 1.506       | 1.582       | 1.602       | 1.554     | 1.545       | 1.588     | 1.407       | 1.346       | 1.240       | 1.486    | 8.51     |
| 1,4-Dichlorobenzene                |           |              |               |              | 1.297       | 1.464       | 1.387       | 1.441     | 1.477       | 1.654     | 1.558       | 1.493       | 1.400       | 1.464    | 7.02     |
| sec-Butylbenzene                   |           |              |               |              | 1.985       | 2.689       | 2.687       | 2.914     | 2.977       | 3.192     | 2.868       | 2.652       | 2.470       | 2.715    | 12.75    |
| 4-Isopropyltoluene                 |           |              |               |              | 1.496       | 1.964       | 2.013       | 2.345     | 2.481       | 2.723     | 2.429       | 2.293       | 2.079       | 2.202    | 16.33    |
| 1,2-Dichlorobenzene                |           |              |               |              | 1.306       | 1.301       | 1.375       | 1.354     | 1.438       | 1.518     | 1.353       | 1.320       | 1.163       | 1.348    | 7.27     |
| n-Butylbenzene                     |           |              |               |              | 1.344       | 1.520       | 1.801       | 1.886     | 2.095       | 2.222     | 1.912       | 1.708       | 1.532       | 1.780    | 15.99    |
| 1,2,4-Trichlorobenzene qfi         |           |              |               |              |             | 0.123       | 0.226       | 0.967     | 1.848       | 5.192     | 11.060      | 25.600      | 38.960      | Coef R2  | 0.99     |
| Hexachlorobutadiene qfi            |           |              |               |              |             | 0.177       | 0.470       | 0.987     | 2.636       | 5.644     | 9.557       | 23.000      |             | Coef R2  | 1.00     |
| 1,2-Dichlorotetrafluoroethane(sim) |           | 2.459        | 2.455         | 2.217        | 2.728       | 2.613       | 2.563       | 2.800     | 2.425       | 2.306     |             |             |             | 2.507    | 7.53     |
| Vinyl Chloride(sim)                |           |              | 1.074         | 0.997        | 1.059       | 1.104       | 1.058       | 1.149     | 0.983       | 0.958     |             |             |             | 1.048    | 6.16     |
| Bromomethane(sim)                  |           | 1.835        | 1.749         | 1.648        | 1.856       | 1.316       | 1.457       | 1.281     | 1.306       | 1.293     |             |             |             | 1.527    | 16.06    |
| Trichlorofluoromethane(sim)        |           | 4.783        | 4.263         | 4.290        | 4.460       | 3.204       | 4.204       | 2.987     | 3.605       | 3.280     |             |             |             | 3.897    | 16.38    |
| 1,1,1-Trichloroethane(sim)         |           | 2.342        | 2.516         | 2.489        | 2.507       | 2.289       | 2.428       | 2.242     | 2.299       | 2.320     |             |             |             | 2.381    | 4.39     |
| Carbon Tetrachloride(sim)          |           | 2.593        | 2.688         | 2.739        | 2.871       | 2.440       | 2.818       | 2.476     | 2.808       | 2.884     |             |             |             | 2.702    | 6.12     |
| 1,1-Dichloroethene(sim)            |           | 2.051        | 1.866         | 1.840        | 2.012       | 1.713       | 1.798       | 1.439     | 1.644       | 1.603     |             |             |             | 1.774    | 11.08    |
| Trichlorotrifluoroethane(sim) qfi  |           | 0.023        | 0.038         | 0.053        | 0.123       | 0.204       | 0.573       | 0.858     | 2.520       | 5.013     |             |             |             | Coef R2  | 1.00     |
| Trans-1,2-Dichloroethene(sim)      |           | 1.343        | 1.434         | 1.339        | 1.369       | 1.366       | 1.275       | 1.312     | 1.242       | 1.298     |             |             |             | 1.331    | 4.27     |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Phoenix Environmental Laboratories, Inc.

6B  
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs  
Lab Code: Phoenix  
Instrument ID: CHEM24  
Heated Purge (Y/N): Y  
GC Column: \_\_\_\_\_

Client: CEG  
SDG No.: GCE81145  
Calibration Date From: 12/03/19 19:28  
Calibration Date Thru: 12/04/19 00:43  
Method File: 24AIR\_1203.M

Laboratory File Ids

| RRF1                           | 1203 | 08.D | RRF2  | 1203  | 09.D  | RRF3  | 1203  | 10.D  | RRF4  | 1203  | 11.D  | RRF5  | 1203  | 19.D  | RRF6    | 1203  | 12.D |
|--------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|------|
| RRF7                           | 1203 | 18.D | RRF8  | 1203  | 13.D  | RRF9  | 1203  | 14.D  | RRF10 | 1203  | 20.D  | RRF11 | 1203  | 15.D  | RRF12   | 1203  | 16.D |
| COMPOUND                       |      |      | RRF1  | RRF2  | RRF3  | RRF4  | RRF5  | RRF6  | RRF7  | RRF8  | RRF9  | RRF10 | RRF11 | RRF12 | —       | %     |      |
|                                |      |      | 0.02  | 0.035 | 0.05  | 0.1   | 0.2   | 0.5   | 1     | 2.5   | 5     | 10    | 25    | 40    | RRF     | RSD   |      |
| 1,1-Dichloroethane(sim)        |      |      | 1.970 | 1.932 | 1.918 | 1.956 | 1.879 | 1.793 | 1.777 | 1.766 | 1.842 |       |       |       | 1.870   | 4.22  |      |
| Cis-1,2-Dichloroethene(sim)    |      |      | 1.066 | 1.200 | 1.124 | 1.214 | 1.310 | 1.167 | 1.318 | 1.305 | 1.450 |       |       |       | 1.239   | 9.48  |      |
| Chloroform(sim)                |      |      | 2.251 | 2.304 | 2.342 | 2.425 | 2.166 | 2.367 | 2.224 | 2.444 | 2.554 |       |       |       | 2.342   | 5.19  |      |
| 1,2-Dichloroethane(sim)        |      |      | 1.359 | 1.664 | 1.594 | 1.758 | 1.530 | 1.577 | 1.481 | 1.633 | 1.748 |       |       |       | 1.594   | 7.98  |      |
| 1,2-dichloropropane(sim)       |      |      | 0.278 | 0.261 | 0.251 | 0.290 | 0.283 | 0.265 | 0.310 | 0.302 | 0.334 |       |       |       | 0.286   | 9.21  |      |
| Bromodichloromethane(sim)      |      |      | 0.779 | 0.823 | 0.824 | 0.884 | 0.817 | 0.892 | 0.858 | 0.954 | 1.007 |       |       |       | 0.871   | 8.31  |      |
| Trichloroethene(sim)           |      |      | 0.373 | 0.380 | 0.421 | 0.456 | 0.482 | 0.404 | 0.487 | 0.445 | 0.492 |       |       |       | 0.438   | 10.41 |      |
| 1,4-Dioxane(sim) qfi           |      |      |       | 0.030 | 0.048 | 0.089 | 0.212 | 0.433 | 1.163 | 2.382 | 5.029 |       |       |       | Coef R2 | 1.00  |      |
| cis-1,3-Dichloropropene(sim)   |      |      | 0.400 | 0.442 | 0.422 | 0.398 | 0.489 | 0.448 | 0.587 | 0.568 |       |       |       |       | 0.469   | 15.55 |      |
| 1,1,2-Trichloroethane(sim)     |      |      | 0.429 | 0.421 | 0.403 | 0.450 | 0.471 | 0.439 | 0.461 | 0.442 | 0.462 |       |       |       | 0.442   | 4.91  |      |
| Dibromochloromethane(sim)      |      |      | 0.980 | 0.822 | 0.723 | 0.964 | 0.916 | 0.915 | 0.925 | 0.960 | 0.997 |       |       |       | 0.911   | 9.57  |      |
| 1,2-Dibromoethane(EDB)(sim)    |      |      | 0.717 | 0.800 | 0.661 | 0.732 | 0.778 | 0.727 | 0.789 | 0.761 | 0.831 |       |       |       | 0.755   | 6.79  |      |
| Tetrachloroethene(sim)         |      |      | 0.220 | 0.558 | 0.576 | 0.622 | 0.680 | 0.589 | 0.698 | 0.644 | 0.700 | 0.691 |       |       | 0.598   | 23.88 |      |
| Bromoform(sim)                 |      |      | 1.295 | 1.215 | 1.267 | 1.474 | 1.552 | 1.567 | 1.611 | 1.617 | 1.497 |       |       |       | 1.455   | 10.68 |      |
| 1,1,1,2-Tetrachloroethane(sim) |      |      | 0.959 | 0.881 | 0.839 | 0.935 | 0.920 | 0.928 | 0.889 | 0.911 | 0.915 |       |       |       | 0.908   | 3.85  |      |
| m,p-Xylene(sim) qfi            |      |      |       | 0.054 | 0.070 | 0.156 | 0.402 | 0.937 | 2.153 | 5.028 | 9.968 |       |       |       | Coef R2 | 1.00  |      |
| 1,1,2,2-Tetrachloroethane(sim) |      |      | 2.035 | 1.578 | 1.449 | 1.643 | 1.694 | 1.619 | 1.671 | 1.641 | 1.699 |       |       |       | 1.670   | 9.38  |      |
| Benzyl chloride(sim) qfi       |      |      | 0.014 | 0.031 | 0.035 | 0.085 | 0.173 | 0.470 | 1.079 | 2.520 | 4.987 |       |       |       | Coef R2 | 1.00  |      |
| 1,3-Dichlorobenzene(sim)       |      |      |       | 1.310 | 1.266 | 1.508 | 1.643 | 1.663 | 1.589 | 1.582 | 1.609 |       |       |       | 1.521   | 9.96  |      |
| 1,4-Dichlorobenzene(sim) q     |      |      |       | 0.030 | 0.038 | 0.095 | 0.216 | 0.506 | 1.034 | 2.478 | 5.004 |       |       |       | Coef R2 | 1.00  |      |
| sec-Butylbenzene(sim) qfi      |      |      |       |       |       | 0.073 | 0.193 | 0.488 | 1.027 | 2.536 | 4.981 |       |       |       | Coef R2 | 1.00  |      |
| 4-Isopropyltoluene(sim) qfi    |      |      |       |       | 0.032 | 0.070 | 0.185 | 0.467 | 1.058 | 2.563 | 4.969 |       |       |       | Coef R2 | 1.00  |      |
| 1,2-Dichlorobenzene(sim) qfi   |      |      | 0.020 | 0.031 | 0.041 | 0.096 | 0.197 | 0.524 | 0.978 | 2.527 | 4.990 |       |       |       | Coef R2 | 1.00  |      |
| n-Butylbenzene(sim) qfi        |      |      |       | 0.023 | 0.031 | 0.075 | 0.171 | 0.498 | 1.020 | 2.607 | 4.954 |       |       |       | Coef R2 | 1.00  |      |
| 1,2,4-Trichlorobenzene(sim) q  |      |      | 0.008 | 0.013 | 0.020 | 0.061 | 0.190 | 0.357 | 1.356 | 2.352 | 5.020 |       |       |       | Coef R2 | 0.99  |      |

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Phoenix Environmental Laboratories, Inc.



## 6B

Client: CEG

SDG No.: GCE81145

Calibration Date From: 12/03/19 19:28

Calibration Date Thru: 12/04/19 00:43

Method File: 24AIR 1203.M

[illegible]

(#) The maximum %RSD was not met for this compound      Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Phoenix Environmental Laboratories, Inc.

# FORM VI AIR

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_08.D  
 Acq On : 3 Dec 2019 5:18 pm  
 Operator : Keith  
 Client ID : ICAL 0.02  
 Lab ID : 0.02 ppbv  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 04 08:57:56 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:57:28 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.532  | 130  | 432413   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.443  | 114  | 1062553  | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 11.001 | 82   | 549928   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.535  | 130  | 449214   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.446  | 114  | 1178481  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 11.004 | 82   | 600905   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

62) % Bromofluorobenzene 12.477 95 733417 8.842 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 88.40%

## Target Compounds

|                               |        |     |      |       | Qvalue |     |
|-------------------------------|--------|-----|------|-------|--------|-----|
| 2) Propylene                  | 1.485  | 41  | 1154 | 0.029 | ppbv#  | 60  |
| 3) Dichlorodifluoromethane    | 1.519  | 101 | 304  | 0.017 | ppbv#  | 51  |
| 4) Chloromethane              | 1.670  | 50  | 1329 | 0.039 | ppbv   | 86  |
| 5) 1,2-Dichlorotetrafluor...  | 1.629  | 135 | 2209 | 0.022 | ppbv   | 92  |
| 6) Vinyl Chloride             | 1.738  | 62  | 880  | 0.022 | ppbv   | 97  |
| 7) 1,3-Butadiene              | 1.759  | 54  | 601  | 0.025 | ppbv#  | 79  |
| 8) Bromomethane               | 1.999  | 94  | 2041 | 0.034 | ppbv#  | 78  |
| 9) Chloroethane               | 2.108  | 64  | 866  | 0.042 | ppbv   | 81  |
| 10) Ethanol                   | 2.718  | 45  | 1005 | 0.094 | ppbv#  | 90  |
| 12) Acetone                   | 3.415  | 43  | 5092 | 0.073 | ppbv   | 92  |
| 13) Trichlorofluoromethane    | 2.239  | 101 | 4200 | 0.030 | ppbv   | 97  |
| 14) Isopropylalcohol          | 3.333  | 45  | 1723 | 0.029 | ppbv#  | 79  |
| 15) Acrylonitrile             | 4.414  | 53  | 268  | 0.013 | ppbv#  | 47  |
| 16) 1,1-Dichloroethene        | 2.697  | 61  | 1843 | 0.026 | ppbv   | 93  |
| 17) Methylene Chloride        | 3.320  | 49  | 2170 | 0.048 | ppbv#  | 88  |
| 20) Carbon Disulfide          | 2.704  | 76  | 6677 | 0.055 | ppbv   | 100 |
| 21) Trichlorotrifluoroethane  | 2.759  | 101 | 2727 | 0.028 | ppbv   | 96  |
| 22) Trans-1,2-Dichloroethene  | 3.518  | 61  | 1207 | 0.021 | ppbv   | 97  |
| 23) 1,1-Dichloroethane        | 4.351  | 63  | 865  | 0.012 | ppbv#  | 54  |
| 24) Methyl tert-butyl ethe... | 3.723  | 73  | 2106 | 0.022 | ppbv#  | 80  |
| 25) Methyl Ethyl Ketone       | 6.217  | 43  | 1534 | 0.028 | ppbv#  | 90  |
| 26) Cis-1,2-Dichloroethene    | 5.237  | 61  | 958  | 0.016 | ppbv#  | 68  |
| 27) Hexane                    | 3.648  | 57  | 2448 | 0.045 | ppbv#  | 68  |
| 28) Chloroform                | 5.727  | 83  | 1808 | 0.018 | ppbv   | 84  |
| 29) Ethyl acetate             | 6.008  | 43  | 1350 | 0.020 | ppbv   | 100 |
| 30) Tetrahydrofuran           | 5.958  | 42  | 398  | 0.015 | ppbv#  | 79  |
| 31) 1,2-Dichloroethane        | 6.806  | 62  | 1221 | 0.017 | ppbv#  | 75  |
| 32) 1,1,1-Trichloroethane     | 5.972  | 97  | 2257 | 0.022 | ppbv   | 88  |
| 33) Benzene                   | 6.518  | 78  | 1934 | 0.020 | ppbv#  | 79  |
| 34) Carbon Tetrachloride      | 5.871  | 117 | 2081 | 0.018 | ppbv   | 92  |
| 35) Cyclohexane               | 5.518  | 56  | 357  | 0.008 | ppbv#  | 1   |
| 37) 1,2-dichloropropane       | 8.011  | 63  | 394  | 0.011 | ppbv#  | 74  |
| 38) Bromodichloromethane      | 8.155  | 83  | 1798 | 0.018 | ppbv   | 80  |
| 39) Trichloroethene           | 7.374  | 130 | 1010 | 0.019 | ppbv#  | 40  |
| 41) 1,4-Dioxane               | 8.435  | 88  | 158  | 0.007 | ppbv#  | 39  |
| 43) Heptane                   | 6.614  | 43  | 559  | 0.013 | ppbv#  | 61  |
| 44) cis-1,3-Dichloropropene   | 8.948  | 75  | 943  | 0.014 | ppbv#  | 71  |
| 45) 4-Methyl-2-pentanone(M... | 9.742  | 43  | 1259 | 0.020 | ppbv#  | 90  |
| 46) trans-1,3-Dichloropropene | 9.756  | 75  | 841  | 0.014 | ppbv#  | 98  |
| 47) 1,1,2-Trichloroethane     | 9.937  | 97  | 890  | 0.019 | ppbv   | 87  |
| 48) Toluene                   | 9.236  | 91  | 1521 | 0.014 | ppbv#  | 83  |
| 49) Dibromochloromethane      | 10.139 | 129 | 2310 | 0.021 | ppbv   | 92  |
| 50) 2-Hexanone(MBK)           | 10.754 | 43  | 1079 | 0.015 | ppbv#  | 39  |
| 51) 1,2-Dibromoethane(EDB)    | 10.363 | 107 | 1480 | 0.018 | ppbv   | 95  |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_08.D  
 Acq On : 3 Dec 2019 5:18 pm  
 Operator : Keith  
 Client ID : ICAL 0.02  
 Lab ID : 0.02 ppbv  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 04 08:57:56 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:57:28 2019  
 Response via : Initial Calibration

| Compound                        | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------------|--------|------|----------|-------|-------|----------|
| 52) Tetrachloroethene           | 9.684  | 166  | 1559     | 0.020 | ppbv  | 87       |
| 54) 1,1,1,2-Tetrachloroethane   | 11.125 | 131  | 1020     | 0.021 | ppbv  | 90       |
| 55) Chlorobenzene               | 11.022 | 112  | 1671     | 0.020 | ppbv# | 1        |
| 56) Ethylbenzene                | 11.104 | 91   | 2354     | 0.019 | ppbv  | 96       |
| 57) m,p-Xylene                  | 11.283 | 91   | 2988     | 0.033 | ppbv  | 94       |
| 58) Bromoform                   | 11.838 | 173  | 2008     | 0.023 | ppbv# | 83       |
| 59) Styrene                     | 11.845 | 104  | 934      | 0.014 | ppbv# | 92       |
| 60) 1,1,2,2-Tetrachloroethane   | 12.769 | 83   | 2347     | 0.026 | ppbv# | 96       |
| 61) o-Xylene                    | 11.777 | 91   | 1537     | 0.014 | ppbv# | 89       |
| 64) Isopropylbenzene            | 12.179 | 105  | 1741     | 0.013 | ppbv# | 88       |
| 66) 4-Ethyltoluene              | 12.815 | 105  | 2505     | 0.019 | ppbv# | 95       |
| 67) 1,3,5-Trimethylbenzene      | 12.925 | 105  | 1915     | 0.017 | ppbv# | 86       |
| 68) 1,2,4-Trimethylbenzene      | 13.392 | 105  | 1666     | 0.015 | ppbv# | 92       |
| 70) Benzyl chloride             | 14.028 | 91   | 848      | 0.011 | ppbv# | 87       |
| 71) 1,3-Dichlorobenzene         | 13.697 | 146  | 1801     | 0.022 | ppbv  | 98       |
| 72) 1,4-Dichlorobenzene         | 13.781 | 146  | 1251     | 0.016 | ppbv# | 92       |
| 73) sec-Butylbenzene            | 13.509 | 105  | 2392     | 0.016 | ppbv# | 92       |
| 74) 4-Isopropyltoluene          | 13.678 | 119  | 2058     | 0.017 | ppbv# | 89       |
| 75) 1,2-Dichlorobenzene         | 14.158 | 146  | 1428     | 0.019 | ppbv# | 91       |
| 76) n-Butylbenzene              | 14.073 | 91   | 1725     | 0.018 | ppbv  | 94       |
| 77) 1,2,4-Trichlorobenzene      | 15.319 | 180  | 123      | 0.003 | ppbv# | 81       |
| 79) Hexachlorobutadiene         | 15.324 | 225  | 1689     | 0.023 | ppbv  | 99       |
| 81) 1,2-Dichlorotetrafluor...   | 1.629  | 135  | 2209     | 0.020 | ppbv  | 92       |
| 82) Vinyl Chloride(sim)         | 1.735  | 62   | 1033     | 0.022 | ppbv  | 97       |
| 83) Bromomethane(sim)           | 1.995  | 94   | 1649m    | 0.027 | ppbv  | 78       |
| 84) Trichlorofluoromethane...   | 2.235  | 101  | 4297     | 0.025 | ppbv  | 95       |
| 85) 1,1,1-Trichloroethane(...)  | 5.972  | 97   | 2104     | 0.020 | ppbv# | 93       |
| 86) Carbon Tetrachloride(sim)   | 5.874  | 117  | 2330     | 0.019 | ppbv  | 99       |
| 87) 1,1-Dichloroethene(sim)     | 2.697  | 61   | 1843     | 0.023 | ppbv  | 93       |
| 88) Trichlorotrifluoroetha...   | 2.769  | 101  | 2586     | 0.023 | ppbv  | 99       |
| 89) Trans-1,2-Dichloroethe...   | 3.518  | 61   | 1207     | 0.020 | ppbv  | 91       |
| 90) 1,1-Dichloroethane(sim)     | 4.339  | 63   | 1770     | 0.021 | ppbv  | 97       |
| 91) Cis-1,2-Dichloroethene...   | 5.237  | 61   | 958      | 0.017 | ppbv# | 72       |
| 92) Chloroform(sim)             | 5.723  | 83   | 2022     | 0.019 | ppbv# | 81       |
| 93) 1,2-Dichloroethane(sim)     | 6.806  | 62   | 1221     | 0.017 | ppbv  | 57       |
| 95) 1,2-dichloropropane(sim)    | 8.014  | 63   | 655m     | 0.019 | ppbv  | 74       |
| 96) Bromodichloromethane(sim)   | 8.158  | 83   | 1837     | 0.018 | ppbv  | 100      |
| 97) Trichloroethene(sim)        | 7.367  | 130  | 880      | 0.017 | ppbv# | 81       |
| 98) 1,4-Dioxane(sim)            | 8.438  | 88   | 459      | 0.023 | ppbv# | 90       |
| 99) cis-1,3-Dichloropropen...   | 8.948  | 75   | 943      | 0.017 | ppbv# | 71       |
| 100) 1,1,2-Trichloroethane(...) | 9.940  | 97   | 1011     | 0.019 | ppbv  | 95       |
| 101) Dibromochloromethane(sim)  | 10.139 | 129  | 2310     | 0.022 | ppbv  | 84       |
| 102) 1,2-Dibromoethane(EDB)...  | 10.365 | 107  | 1690     | 0.019 | ppbv  | 86       |
| 103) Tetrachloroethene(sim)     | 9.698  | 166  | 519      | 0.007 | ppbv# | 57       |
| 105) Bromoform(sim)             | 11.838 | 173  | 1556     | 0.018 | ppbv# | 35       |
| 106) 1,1,1,2-Tetrachloroeth...  | 11.128 | 131  | 1152     | 0.021 | ppbv  | 100      |
| 107) m,p-Xylene(sim)            | 11.283 | 91   | 2988     | 0.032 | ppbv# | 94       |
| 108) 1,1,2,2-Tetrachloroeth...  | 12.772 | 83   | 2446     | 0.024 | ppbv  | 96       |
| 111) Benzyl chloride(sim)       | 14.028 | 91   | 848      | 0.014 | ppbv  | 87       |
| 112) 1,3-Dichlorobenzene(sim)   | 13.694 | 146  | 1949     | 0.021 | ppbv  | 99       |
| 113) 1,4-Dichlorobenzene(sim)   | 13.781 | 146  | 1251     | 0.017 | ppbv  | 92       |
| 114) sec-Butylbenzene(sim)      | 13.505 | 105  | 2886     | 0.017 | ppbv  | 98       |
| 115) 4-Isopropyltoluene(sim)    | 13.678 | 119  | 2058     | 0.018 | ppbv# | 89       |
| 116) 1,2-Dichlorobenzene(sim)   | 14.161 | 146  | 1687     | 0.021 | ppbv  | 99       |
| 117) n-Butylbenzene(sim)        | 14.073 | 91   | 1725     | 0.018 | ppbv  | 94       |
| 118) 1,2,4-Trichlorobenzene...  | 15.322 | 180  | 252      | 0.008 | ppbv  | 90       |
| 119) Hexachlorobutadiene(sim)   | 15.324 | 225  | 1689     | 0.023 | ppbv# | 87       |

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_08.D  
 Acq On : 3 Dec 2019 5:18 pm  
 Operator : Keith  
 Client ID : ICAL 0.02  
 Lab ID : 0.02 ppbV  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 04 08:57:56 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:57:28 2019  
 Response via : Initial Calibration

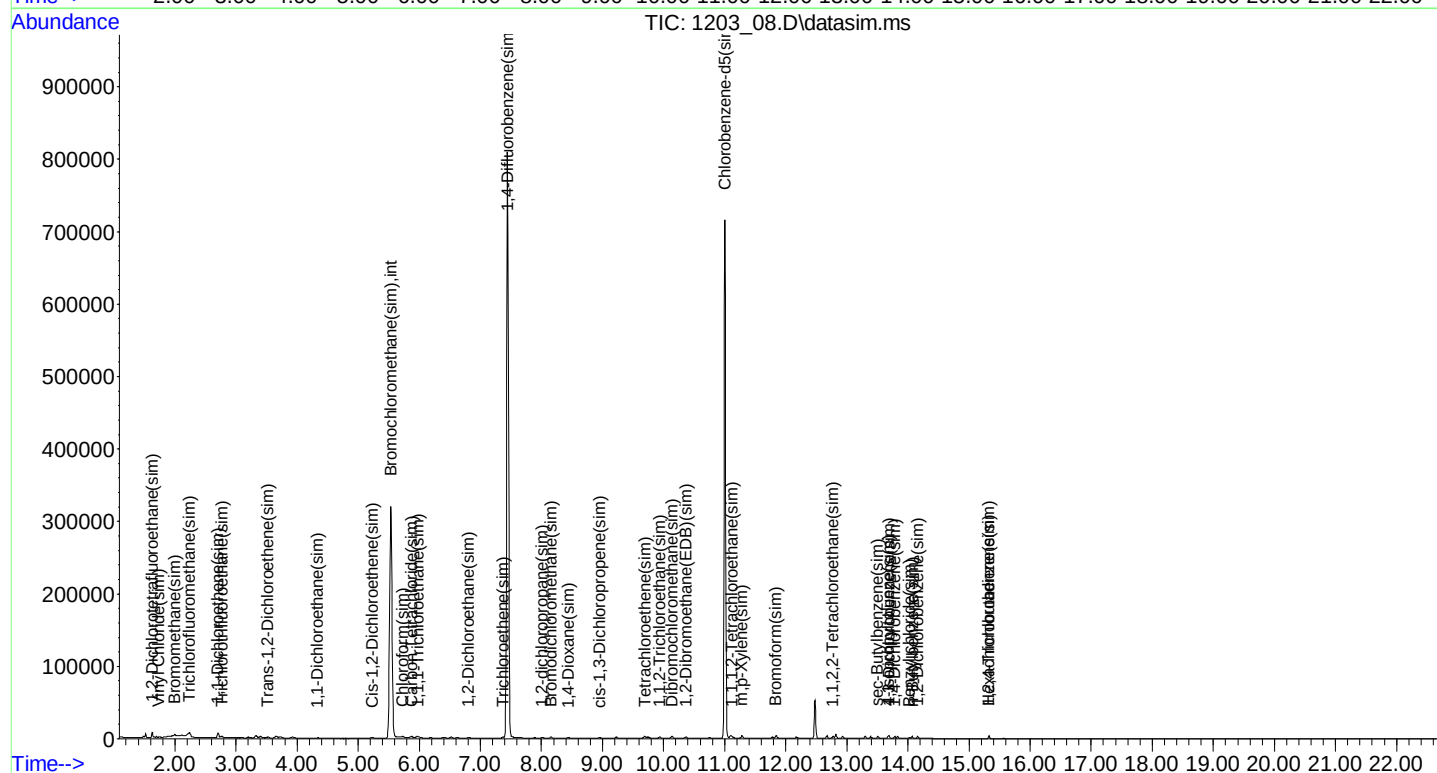
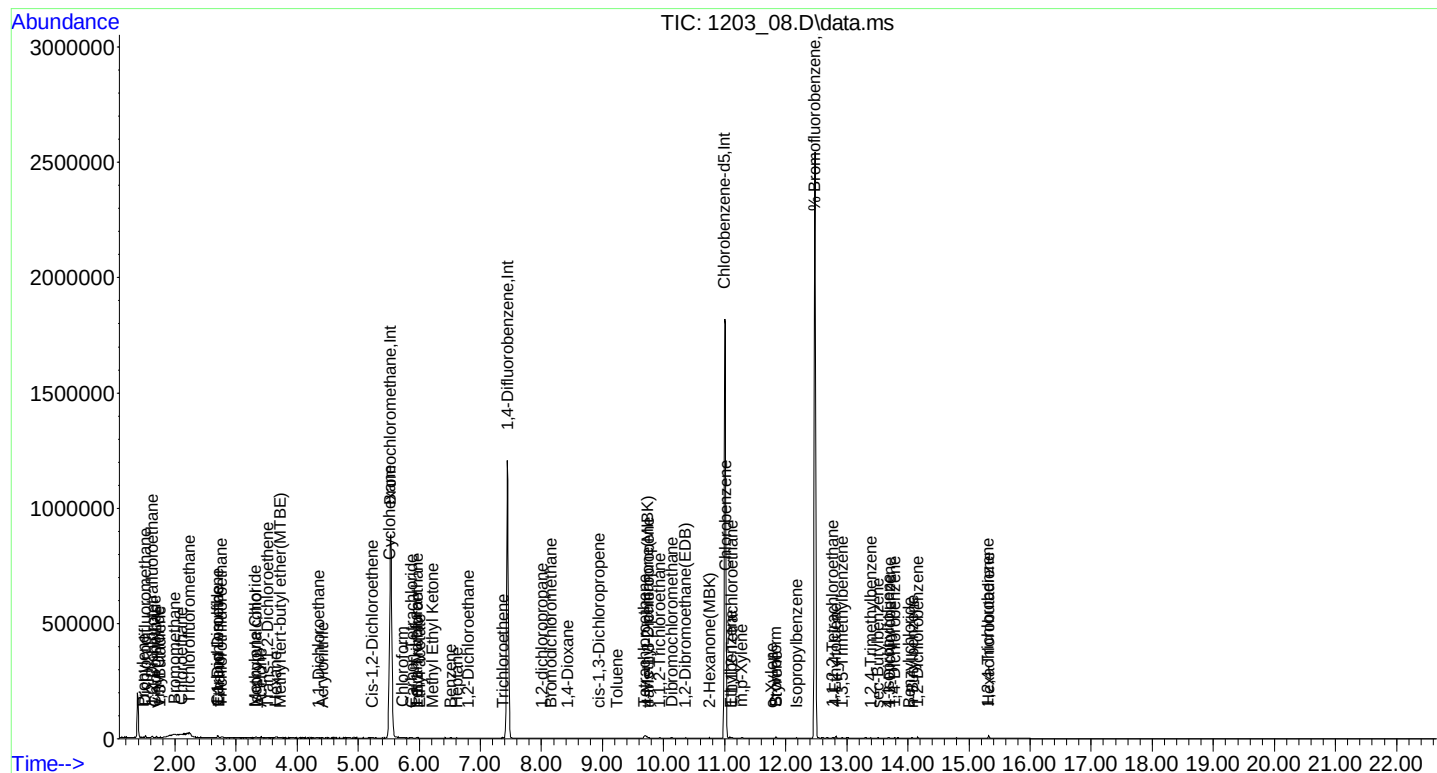
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

```
Data Path : H:\AIR2019\CHEM24\12DEC\03B\
Data File : 1203_08.D
Acq On : 3 Dec 2019 5:18 pm
Operator : Keith
Client ID :
Lab ID : ICAL 0.02
ALS Vial : 0.02 ppbV
ALS Vial : 3 Sample Multiplier: 1
```

Quant Time: Dec 04 08:57:56 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Last Update : Wed Dec 04 08:57:28 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_09.D  
 Acq On : 3 Dec 2019 5:49 pm  
 Operator : Keith  
 Client ID : ICAL 0.035  
 Lab ID : 0.035 ppbV  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 04 08:57:12 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:56:41 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.528  | 130  | 427149   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.446  | 114  | 1053704  | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 11.004 | 82   | 560836   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.531  | 130  | 443918   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.442  | 114  | 1167267  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 11.007 | 82   | 609529   | 10.000 | ng    | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 62) % Bromofluorobenzene    | 12.480 | 95    | 758502   | 8.967    | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 70 - 130 | Recovery | =    | 89.70% |

| Target Compounds              | R.T.   | QIon | Response | Conc  | Units | Qvalue |
|-------------------------------|--------|------|----------|-------|-------|--------|
| 2) Propylene                  | 1.485  | 41   | 2077     | 0.052 | ppbv  | 93     |
| 3) Dichlorodifluoromethane    | 1.519  | 101  | 676      | 0.037 | ppbv  | 89     |
| 4) Chloromethane              | 1.663  | 50   | 1362     | 0.040 | ppbv  | 88     |
| 5) 1,2-Dichlorotetrafluor...  | 1.636  | 135  | 3814     | 0.038 | ppbv  | 96     |
| 6) Vinyl Chloride             | 1.739  | 62   | 1429     | 0.035 | ppbv  | 83     |
| 7) 1,3-Butadiene              | 1.759  | 54   | 846      | 0.035 | ppbv# | 81     |
| 8) Bromomethane               | 1.999  | 94   | 2902     | 0.049 | ppbv# | 85     |
| 9) Chloroethane               | 2.115  | 64   | 1329     | 0.065 | ppbv# | 74     |
| 10) Ethanol                   | 2.731  | 45   | 898      | 0.085 | ppbv# | 60     |
| 12) Acetone                   | 3.402  | 43   | 4533     | 0.066 | ppbv  | 94     |
| 13) Trichlorofluoromethane    | 2.239  | 101  | 6464     | 0.047 | ppbv# | 86     |
| 14) Isopropylalcohol          | 3.340  | 45   | 2240     | 0.038 | ppbv  | 93     |
| 15) Acrylonitrile             | 4.402  | 53   | 266      | 0.013 | ppbv# | 1      |
| 16) 1,1-Dichloroethene        | 2.697  | 61   | 2900     | 0.041 | ppbv  | 92     |
| 17) Methylene Chloride        | 3.320  | 49   | 2683     | 0.061 | ppbv  | 92     |
| 20) Carbon Disulfide          | 2.704  | 76   | 7880     | 0.066 | ppbv  | 96     |
| 21) Trichlorotrifluoroethane  | 2.766  | 101  | 4151     | 0.044 | ppbv  | 95     |
| 22) Trans-1,2-Dichloroethene  | 3.518  | 61   | 2359     | 0.042 | ppbv# | 87     |
| 23) 1,1-Dichloroethane        | 4.349  | 63   | 2743     | 0.037 | ppbv# | 70     |
| 24) Methyl tert-butyl ethe... | 3.737  | 73   | 3220     | 0.034 | ppbv# | 42     |
| 25) Methyl Ethyl Ketone       | 6.199  | 43   | 1803     | 0.033 | ppbv  | 93     |
| 26) Cis-1,2-Dichloroethene    | 5.218  | 61   | 1865     | 0.032 | ppbv# | 91     |
| 27) Hexane                    | 3.669  | 57   | 1475     | 0.027 | ppbv  | 96     |
| 28) Chloroform                | 5.723  | 83   | 3096     | 0.032 | ppbv  | 85     |
| 29) Ethyl acetate             | 6.025  | 43   | 2399     | 0.037 | ppbv# | 85     |
| 30) Tetrahydrofuran           | 5.953  | 42   | 1015     | 0.039 | ppbv# | 61     |
| 31) 1,2-Dichloroethane        | 6.816  | 62   | 2586     | 0.036 | ppbv# | 77     |
| 32) 1,1,1-Trichloroethane     | 5.975  | 97   | 3981     | 0.040 | ppbv  | 98     |
| 33) Benzene                   | 6.514  | 78   | 3351     | 0.034 | ppbv  | 95     |
| 34) Carbon Tetrachloride      | 5.881  | 117  | 4038     | 0.035 | ppbv  | 92     |
| 35) Cyclohexane               | 5.521  | 56   | 1189     | 0.026 | ppbv# | 38     |
| 37) 1,2-dichloropropane       | 8.021  | 63   | 1068     | 0.030 | ppbv  | 90     |
| 38) Bromodichloromethane      | 8.158  | 83   | 3207     | 0.033 | ppbv  | 96     |
| 39) Trichloroethene           | 7.377  | 130  | 1837     | 0.034 | ppbv  | 94     |
| 41) 1,4-Dioxane               | 8.438  | 88   | 373      | 0.017 | ppbv# | 76     |
| 43) Heptane                   | 6.631  | 43   | 1205     | 0.028 | ppbv# | 88     |
| 44) cis-1,3-Dichloropropene   | 8.951  | 75   | 1806     | 0.027 | ppbv  | 87     |
| 45) 4-Methyl-2-pentanone(M... | 9.745  | 43   | 2161     | 0.034 | ppbv# | 91     |
| 46) trans-1,3-Dichloropropene | 9.759  | 75   | 1571     | 0.027 | ppbv# | 89     |
| 47) 1,1,2-Trichloroethane     | 9.940  | 97   | 1644     | 0.035 | ppbv  | 88     |
| 48) Toluene                   | 9.232  | 91   | 2988     | 0.027 | ppbv# | 90     |
| 49) Dibromochloromethane      | 10.135 | 129  | 3650     | 0.034 | ppbv# | 97     |
| 50) 2-Hexanone(MBK)           | 10.743 | 43   | 1392     | 0.020 | ppbv# | 87     |
| 51) 1,2-Dibromoethane(EDB)    | 10.366 | 107  | 2515     | 0.030 | ppbv  | 100    |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_09.D  
 Acq On : 3 Dec 2019 5:49 pm  
 Operator : Keith  
 Client ID : ICAL 0.035  
 Lab ID : 0.035 ppbV  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 04 08:57:12 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Wed Dec 04 08:56:41 2019  
 Response via : Initial Calibration

|      | Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|----------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene          | 9.687  | 166  | 2278     | 0.030 | ppbv# | 84       |
| 54)  | 1,1,1,2-Tetrachloroethane  | 11.128 | 131  | 1809     | 0.036 | ppbv  | 99       |
| 55)  | Chlorobenzene              | 11.025 | 112  | 2977     | 0.035 | ppbv# | 64       |
| 56)  | Ethylbenzene               | 11.100 | 91   | 3622     | 0.029 | ppbv  | 93       |
| 57)  | m,p-Xylene                 | 11.286 | 91   | 5194     | 0.056 | ppbv  | 93       |
| 58)  | Bromoform                  | 11.841 | 173  | 2809     | 0.031 | ppbv# | 90       |
| 59)  | Styrene                    | 11.848 | 104  | 1399     | 0.020 | ppbv# | 77       |
| 60)  | 1,1,2,2-Tetrachloroethane  | 12.772 | 83   | 3200     | 0.035 | ppbv# | 92       |
| 61)  | o-Xylene                   | 11.786 | 91   | 2344     | 0.021 | ppbv  | 96       |
| 64)  | Isopropylbenzene           | 12.175 | 105  | 2907     | 0.022 | ppbv  | 93       |
| 66)  | 4-Ethyltoluene             | 12.818 | 105  | 3581     | 0.027 | ppbv  | 99       |
| 67)  | 1,3,5-Trimethylbenzene     | 12.934 | 105  | 2601     | 0.023 | ppbv  | 93       |
| 68)  | 1,2,4-Trimethylbenzene     | 13.395 | 105  | 2679     | 0.024 | ppbv  | 99       |
| 70)  | Benzyl chloride            | 14.025 | 91   | 1933     | 0.024 | ppbv# | 86       |
| 71)  | 1,3-Dichlorobenzene        | 13.694 | 146  | 2553     | 0.031 | ppbv  | 94       |
| 72)  | 1,4-Dichlorobenzene        | 13.784 | 146  | 2240     | 0.027 | ppbv# | 88       |
| 73)  | sec-Butylbenzene           | 13.505 | 105  | 3775     | 0.025 | ppbv# | 89       |
| 74)  | 4-Isopropyltoluene         | 13.674 | 119  | 2729     | 0.022 | ppbv# | 94       |
| 75)  | 1,2-Dichlorobenzene        | 14.161 | 146  | 2253     | 0.030 | ppbv# | 92       |
| 76)  | n-Butylbenzene             | 14.070 | 91   | 2266     | 0.023 | ppbv  | 98       |
| 77)  | 1,2,4-Trichlorobenzene     | 15.320 | 180  | 432      | 0.009 | ppbv# | 75       |
| 79)  | Hexachlorobutadiene        | 15.325 | 225  | 2720     | 0.036 | ppbv  | 96       |
| 81)  | 1,2-Dichlorotetrafluor...  | 1.636  | 135  | 3814     | 0.034 | ppbv  | 96       |
| 82)  | Vinyl Chloride(sim)        | 1.741  | 62   | 1668     | 0.036 | ppbv  | 97       |
| 83)  | Bromomethane(sim)          | 2.002  | 94   | 2717m    | 0.045 | ppbv  | 83       |
| 84)  | Trichlorofluoromethane...  | 2.235  | 101  | 6624     | 0.038 | ppbv  | 99       |
| 85)  | 1,1,1-Trichloroethane(...) | 5.975  | 97   | 3909     | 0.037 | ppbv# | 96       |
| 86)  | Carbon Tetrachloride(sim)  | 5.870  | 117  | 4177     | 0.035 | ppbv  | 100      |
| 87)  | 1,1-Dichloroethene(sim)    | 2.697  | 61   | 2900     | 0.037 | ppbv  | 92       |
| 88)  | Trichlorotrifluoroetha...  | 2.769  | 101  | 4302     | 0.038 | ppbv  | 100      |
| 89)  | Trans-1,2-Dichloroethe...  | 3.518  | 61   | 2228     | 0.038 | ppbv# | 83       |
| 90)  | 1,1-Dichloroethane(sim)    | 4.337  | 63   | 3002     | 0.036 | ppbv  | 100      |
| 91)  | Cis-1,2-Dichloroethene...  | 5.218  | 61   | 1865     | 0.034 | ppbv  | 94       |
| 92)  | Chloroform(sim)            | 5.726  | 83   | 3580     | 0.034 | ppbv  | 98       |
| 93)  | 1,2-Dichloroethane(sim)    | 6.816  | 62   | 2586     | 0.037 | ppbv  | 85       |
| 95)  | 1,2-dichloropropane(sim)   | 8.021  | 63   | 1068     | 0.032 | ppbv  | 90       |
| 96)  | Bromodichloromethane(sim)  | 8.161  | 83   | 3364     | 0.033 | ppbv  | 100      |
| 97)  | Trichloroethene(sim)       | 7.363  | 130  | 1553     | 0.030 | ppbv  | 87       |
| 98)  | 1,4-Dioxane(sim)           | 8.434  | 88   | 600      | 0.030 | ppbv# | 84       |
| 99)  | cis-1,3-Dichloropropen...  | 8.951  | 75   | 1806     | 0.033 | ppbv# | 87       |
| 100) | 1,1,2-Trichloroethane(...) | 9.936  | 97   | 1722     | 0.033 | ppbv  | 97       |
| 101) | Dibromochloromethane(sim)  | 10.135 | 129  | 3360     | 0.032 | ppbv  | 98       |
| 102) | 1,2-Dibromoethane(EDB)...  | 10.361 | 107  | 3269     | 0.037 | ppbv  | 85       |
| 103) | Tetrachloroethene(sim)     | 9.687  | 166  | 2278     | 0.033 | ppbv  | 90       |
| 105) | Bromoform(sim)             | 11.841 | 173  | 2593     | 0.029 | ppbv  | 89       |
| 106) | 1,1,1,2-Tetrachloroeth...  | 11.124 | 131  | 1879     | 0.034 | ppbv  | 99       |
| 107) | m,p-Xylene(sim)            | 11.286 | 91   | 5194     | 0.054 | ppbv# | 93       |
| 108) | 1,1,2,2-Tetrachloroeth...  | 12.769 | 83   | 3367     | 0.033 | ppbv  | 99       |
| 111) | Benzyl chloride(sim)       | 14.025 | 91   | 1933     | 0.031 | ppbv  | 86       |
| 112) | 1,3-Dichlorobenzene(sim)   | 13.696 | 146  | 2795     | 0.030 | ppbv  | 99       |
| 113) | 1,4-Dichlorobenzene(sim)   | 13.784 | 146  | 2240     | 0.030 | ppbv  | 88       |
| 114) | sec-Butylbenzene(sim)      | 13.508 | 105  | 3970     | 0.024 | ppbv  | 99       |
| 115) | 4-Isopropyltoluene(sim)    | 13.674 | 119  | 2729     | 0.023 | ppbv# | 94       |
| 116) | 1,2-Dichlorobenzene(sim)   | 14.157 | 146  | 2560     | 0.031 | ppbv  | 98       |
| 117) | n-Butylbenzene(sim)        | 14.070 | 91   | 2266     | 0.023 | ppbv  | 98       |
| 118) | 1,2,4-Trichlorobenzene...  | 15.323 | 180  | 431      | 0.013 | ppbv  | 95       |
| 119) | Hexachlorobutadiene(sim)   | 15.325 | 225  | 2493     | 0.034 | ppbv  | 88       |

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_09.D  
 Acq On : 3 Dec 2019 5:49 pm  
 Operator : Keith  
 Client ID : ICAL 0.035  
 Lab ID : 0.035 ppbV  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 04 08:57:12 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:56:41 2019  
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

(#)out of range (m>manual integration reviewed by analyst (+)signals summed



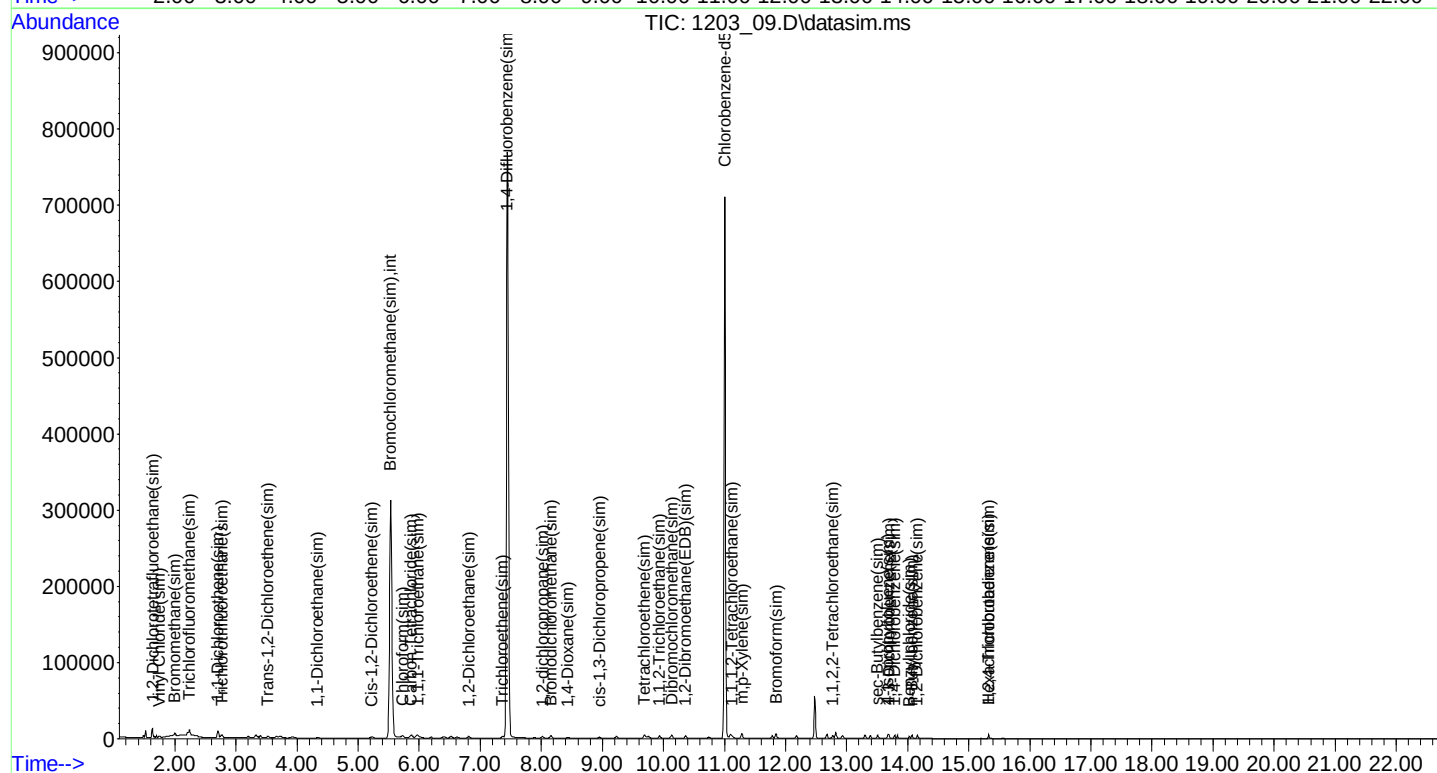
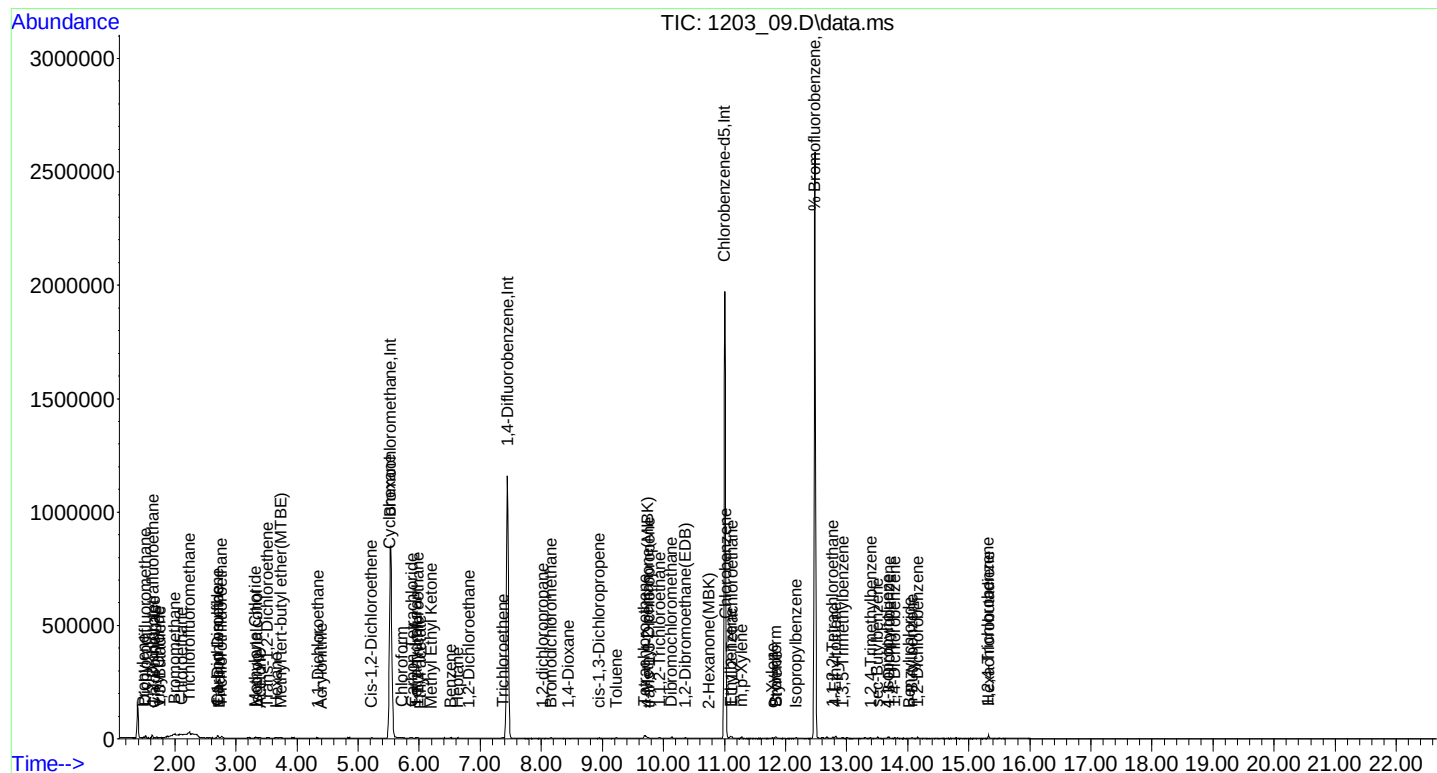
Quantitation Report (RF) (QT Reviewed)

```

Data Path   : H:\AIR2019\CHEM24\12DEC\03B\
Data File   : 1203_09.D
Acq On      : 3 Dec 2019    5:49 pm
Operator    : Keith
Client ID    : ICAL 0.035
Lab ID      : 0.035 ppbV
ALS Vial    : 4    Sample Multiplier: 1

```

Quant Time: Dec 04 08:57:12 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Last Update : Wed Dec 04 08:56:41 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_10.D  
 Acq On : 3 Dec 2019 6:20 pm  
 Operator : Keith  
 Client ID : ICAL 0.05  
 Lab ID : 0.05 ppbv  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 04 08:56:23 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:55:42 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.528  | 130  | 412607   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.446  | 114  | 1041803  | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 11.004 | 82   | 546886   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.531  | 130  | 431325   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.442  | 114  | 1145358  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 11.000 | 82   | 599821   | 10.000 | ng    | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 62) % Bromofluorobenzene    | 12.480 | 95    | 746849   | 9.054    | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 70 - 130 | Recovery | =    | 90.50% |

| Target Compounds              |        |     |      |       | Qvalue |    |
|-------------------------------|--------|-----|------|-------|--------|----|
| 2) Propylene                  | 1.485  | 41  | 2203 | 0.058 | ppbv#  | 78 |
| 3) Dichlorodifluoromethane    | 1.513  | 101 | 977  | 0.056 | ppbv   | 89 |
| 4) Chloromethane              | 1.663  | 50  | 2307 | 0.070 | ppbv   | 88 |
| 5) 1,2-Dichlorotetrafluor...  | 1.629  | 135 | 4782 | 0.050 | ppbv#  | 85 |
| 6) Vinyl Chloride             | 1.739  | 62  | 2017 | 0.052 | ppbv   | 94 |
| 7) 1,3-Butadiene              | 1.752  | 54  | 1173 | 0.051 | ppbv   | 98 |
| 8) Bromomethane               | 1.992  | 94  | 3469 | 0.061 | ppbv#  | 79 |
| 9) Chloroethane               | 2.109  | 64  | 1756 | 0.089 | ppbv   | 89 |
| 10) Ethanol                   | 2.725  | 45  | 891  | 0.087 | ppbv#  | 91 |
| 12) Acetone                   | 3.395  | 43  | 5140 | 0.077 | ppbv#  | 92 |
| 13) Trichlorofluoromethane    | 2.239  | 101 | 9462 | 0.071 | ppbv#  | 97 |
| 14) Isopropylalcohol          | 3.340  | 45  | 3396 | 0.059 | ppbv#  | 3  |
| 15) Acrylonitrile             | 4.407  | 53  | 787  | 0.041 | ppbv#  | 75 |
| 16) 1,1-Dichloroethene        | 2.697  | 61  | 3968 | 0.059 | ppbv#  | 85 |
| 17) Methylene Chloride        | 3.313  | 49  | 3093 | 0.072 | ppbv   | 96 |
| 20) Carbon Disulfide          | 2.704  | 76  | 9584 | 0.083 | ppbv   | 94 |
| 21) Trichlorotrifluoroethane  | 2.766  | 101 | 5732 | 0.062 | ppbv   | 94 |
| 22) Trans-1,2-Dichloroethene  | 3.525  | 61  | 2955 | 0.054 | ppbv#  | 89 |
| 23) 1,1-Dichloroethane        | 4.325  | 63  | 2587 | 0.036 | ppbv#  | 7  |
| 24) Methyl tert-butyl ethe... | 3.723  | 73  | 4078 | 0.044 | ppbv#  | 82 |
| 25) Methyl Ethyl Ketone       | 6.199  | 43  | 2289 | 0.043 | ppbv   | 97 |
| 26) Cis-1,2-Dichloroethene    | 5.233  | 61  | 2423 | 0.043 | ppbv   | 92 |
| 27) Hexane                    | 3.648  | 57  | 2109 | 0.040 | ppbv#  | 74 |
| 28) Chloroform                | 5.716  | 83  | 4741 | 0.050 | ppbv   | 98 |
| 29) Ethyl acetate             | 6.018  | 43  | 2791 | 0.044 | ppbv#  | 88 |
| 30) Tetrahydrofuran           | 5.961  | 42  | 1013 | 0.041 | ppbv#  | 81 |
| 31) 1,2-Dichloroethane        | 6.802  | 62  | 3583 | 0.052 | ppbv#  | 86 |
| 32) 1,1,1-Trichloroethane     | 5.968  | 97  | 5446 | 0.057 | ppbv   | 90 |
| 33) Benzene                   | 6.514  | 78  | 4375 | 0.046 | ppbv   | 97 |
| 34) Carbon Tetrachloride      | 5.874  | 117 | 5743 | 0.052 | ppbv   | 88 |
| 35) Cyclohexane               | 5.514  | 56  | 1643 | 0.037 | ppbv#  | 82 |
| 37) 1,2-dichloropropane       | 8.007  | 63  | 1438 | 0.041 | ppbv   | 90 |
| 38) Bromodichloromethane      | 8.158  | 83  | 4701 | 0.049 | ppbv   | 93 |
| 39) Trichloroethene           | 7.370  | 130 | 2409 | 0.045 | ppbv   | 94 |
| 41) 1,4-Dioxane               | 8.431  | 88  | 719  | 0.034 | ppbv#  | 60 |
| 43) Heptane                   | 6.631  | 43  | 1769 | 0.042 | ppbv   | 98 |
| 44) cis-1,3-Dichloropropene   | 8.951  | 75  | 2419 | 0.037 | ppbv   | 92 |
| 45) 4-Methyl-2-pentanone(M... | 9.738  | 43  | 2558 | 0.041 | ppbv#  | 84 |
| 46) trans-1,3-Dichloropropene | 9.759  | 75  | 2048 | 0.036 | ppbv#  | 84 |
| 47) 1,1,2-Trichloroethane     | 9.940  | 97  | 2062 | 0.044 | ppbv#  | 86 |
| 48) Toluene                   | 9.232  | 91  | 3926 | 0.036 | ppbv#  | 96 |
| 49) Dibromochloromethane      | 10.135 | 129 | 4625 | 0.043 | ppbv   | 94 |
| 50) 2-Hexanone(MBK)           | 10.750 | 43  | 2118 | 0.031 | ppbv#  | 97 |
| 51) 1,2-Dibromoethane(EDB)    | 10.359 | 107 | 3741 | 0.045 | ppbv   | 95 |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_10.D  
 Acq On : 3 Dec 2019 6:20 pm  
 Operator : Keith  
 Client ID : ICAL 0.05  
 Lab ID : 0.05 ppbv  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 04 08:56:23 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:55:42 2019  
 Response via : Initial Calibration

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene         | 9.687  | 166  | 3364     | 0.045 | ppbv  | 91       |
| 54)  | 1,1,1,2-Tetrachloroethane | 11.128 | 131  | 2274     | 0.046 | ppbv  | 91       |
| 55)  | Chlorobenzene             | 11.018 | 112  | 3862     | 0.047 | ppbv# | 18       |
| 56)  | Ethylbenzene              | 11.100 | 91   | 4976     | 0.040 | ppbv  | 96       |
| 57)  | m,p-Xylene                | 11.286 | 91   | 6585     | 0.073 | ppbv  | 100      |
| 58)  | Bromoform                 | 11.841 | 173  | 3887     | 0.045 | ppbv  | 97       |
| 59)  | Styrene                   | 11.848 | 104  | 1947     | 0.028 | ppbv# | 92       |
| 60)  | 1,1,2,2-Tetrachloroethane | 12.772 | 83   | 4036     | 0.046 | ppbv# | 93       |
| 61)  | o-Xylene                  | 11.780 | 91   | 2936     | 0.028 | ppbv# | 87       |
| 64)  | Isopropylbenzene          | 12.175 | 105  | 3954     | 0.030 | ppbv  | 95       |
| 66)  | 4-Ethyltoluene            | 12.818 | 105  | 4802     | 0.037 | ppbv  | 97       |
| 67)  | 1,3,5-Trimethylbenzene    | 12.934 | 105  | 4004     | 0.036 | ppbv# | 81       |
| 68)  | 1,2,4-Trimethylbenzene    | 13.389 | 105  | 3181     | 0.029 | ppbv  | 94       |
| 70)  | Benzyl chloride           | 14.025 | 91   | 2111     | 0.027 | ppbv# | 95       |
| 71)  | 1,3-Dichlorobenzene       | 13.687 | 146  | 3373     | 0.042 | ppbv  | 90       |
| 72)  | 1,4-Dichlorobenzene       | 13.784 | 146  | 2838     | 0.035 | ppbv  | 95       |
| 73)  | sec-Butylbenzene          | 13.505 | 105  | 4830     | 0.033 | ppbv# | 93       |
| 74)  | 4-Isopropyltoluene        | 13.674 | 119  | 3711     | 0.031 | ppbv# | 92       |
| 75)  | 1,2-Dichlorobenzene       | 14.161 | 146  | 2829     | 0.038 | ppbv  | 94       |
| 76)  | n-Butylbenzene            | 14.070 | 91   | 3038     | 0.031 | ppbv  | 94       |
| 77)  | 1,2,4-Trichlorobenzene    | 15.320 | 180  | 472      | 0.011 | ppbv  | 89       |
| 79)  | Hexachlorobutadiene       | 15.325 | 225  | 3089     | 0.042 | ppbv  | 99       |
| 81)  | 1,2-Dichlorotetrafluor... | 1.629  | 135  | 4782     | 0.044 | ppbv# | 85       |
| 82)  | Vinyl Chloride(sim)       | 1.735  | 62   | 2151     | 0.048 | ppbv  | 97       |
| 83)  | Bromomethane(sim)         | 1.995  | 94   | 3555m    | 0.060 | ppbv  | 79       |
| 84)  | Trichlorofluoromethane... | 2.235  | 101  | 9252     | 0.055 | ppbv  | 100      |
| 85)  | 1,1,1-Trichloroethane(... | 5.968  | 97   | 5367     | 0.052 | ppbv# | 91       |
| 86)  | Carbon Tetrachloride(sim) | 5.870  | 117  | 5907     | 0.051 | ppbv  | 99       |
| 87)  | 1,1-Dichloroethene(sim)   | 2.697  | 61   | 3968     | 0.052 | ppbv# | 86       |
| 88)  | Trichlorotrifluoroetha... | 2.762  | 101  | 5791     | 0.053 | ppbv  | 99       |
| 89)  | Trans-1,2-Dichloroethe... | 3.525  | 61   | 2887     | 0.050 | ppbv# | 86       |
| 90)  | 1,1-Dichloroethane(sim)   | 4.333  | 63   | 4136     | 0.051 | ppbv  | 100      |
| 91)  | Cis-1,2-Dichloroethene... | 5.233  | 61   | 2423     | 0.045 | ppbv  | 93       |
| 92)  | Chloroform(sim)           | 5.726  | 83   | 5051     | 0.050 | ppbv  | 99       |
| 93)  | 1,2-Dichloroethane(sim)   | 6.802  | 62   | 3438     | 0.050 | ppbv# | 98       |
| 95)  | 1,2-dichloropropane(sim)  | 8.007  | 63   | 1438     | 0.044 | ppbv  | 89       |
| 96)  | Bromodichloromethane(sim) | 8.154  | 83   | 4721     | 0.047 | ppbv  | 99       |
| 97)  | Trichloroethene(sim)      | 7.370  | 130  | 2409     | 0.048 | ppbv  | 99       |
| 98)  | 1,4-Dioxane(sim)          | 8.434  | 88   | 933      | 0.048 | ppbv# | 89       |
| 99)  | cis-1,3-Dichloropropen... | 8.951  | 75   | 2419     | 0.045 | ppbv  | 92       |
| 100) | 1,1,2-Trichloroethane(... | 9.936  | 97   | 2310     | 0.046 | ppbv  | 97       |
| 101) | Dibromochloromethane(sim) | 10.135 | 129  | 4141     | 0.040 | ppbv  | 79       |
| 102) | 1,2-Dibromoethane(EDB)... | 10.362 | 107  | 3786     | 0.044 | ppbv  | 100      |
| 103) | Tetrachloroethene(sim)    | 9.687  | 166  | 3299     | 0.048 | ppbv  | 89       |
| 105) | Bromoform(sim)            | 11.841 | 173  | 3800     | 0.044 | ppbv  | 92       |
| 106) | 1,1,1,2-Tetrachloroeth... | 11.124 | 131  | 2515     | 0.046 | ppbv  | 99       |
| 107) | m,p-Xylene(sim)           | 11.286 | 91   | 6585     | 0.069 | ppbv  | 100      |
| 108) | 1,1,2,2-Tetrachloroeth... | 12.775 | 83   | 4345     | 0.043 | ppbv  | 100      |
| 111) | Benzyl chloride(sim)      | 14.025 | 91   | 2111     | 0.034 | ppbv  | 95       |
| 112) | 1,3-Dichlorobenzene(sim)  | 13.697 | 146  | 3798     | 0.042 | ppbv  | 98       |
| 113) | 1,4-Dichlorobenzene(sim)  | 13.784 | 146  | 2838     | 0.038 | ppbv  | 95       |
| 114) | sec-Butylbenzene(sim)     | 13.508 | 105  | 5245     | 0.032 | ppbv  | 99       |
| 115) | 4-Isopropyltoluene(sim)   | 13.674 | 119  | 3711     | 0.032 | ppbv# | 92       |
| 116) | 1,2-Dichlorobenzene(sim)  | 14.157 | 146  | 3402     | 0.041 | ppbv  | 98       |
| 117) | n-Butylbenzene(sim)       | 14.070 | 91   | 3038     | 0.031 | ppbv  | 94       |
| 118) | 1,2,4-Trichlorobenzene... | 15.323 | 180  | 642      | 0.020 | ppbv  | 89       |
| 119) | Hexachlorobutadiene(sim)  | 15.325 | 225  | 3089     | 0.043 | ppbv  | 94       |

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_10.D  
 Acq On : 3 Dec 2019 6:20 pm  
 Operator : Keith  
 Client ID : ICAL 0.05  
 Lab ID : 0.05 ppbV  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 04 08:56:23 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:55:42 2019  
 Response via : Initial Calibration

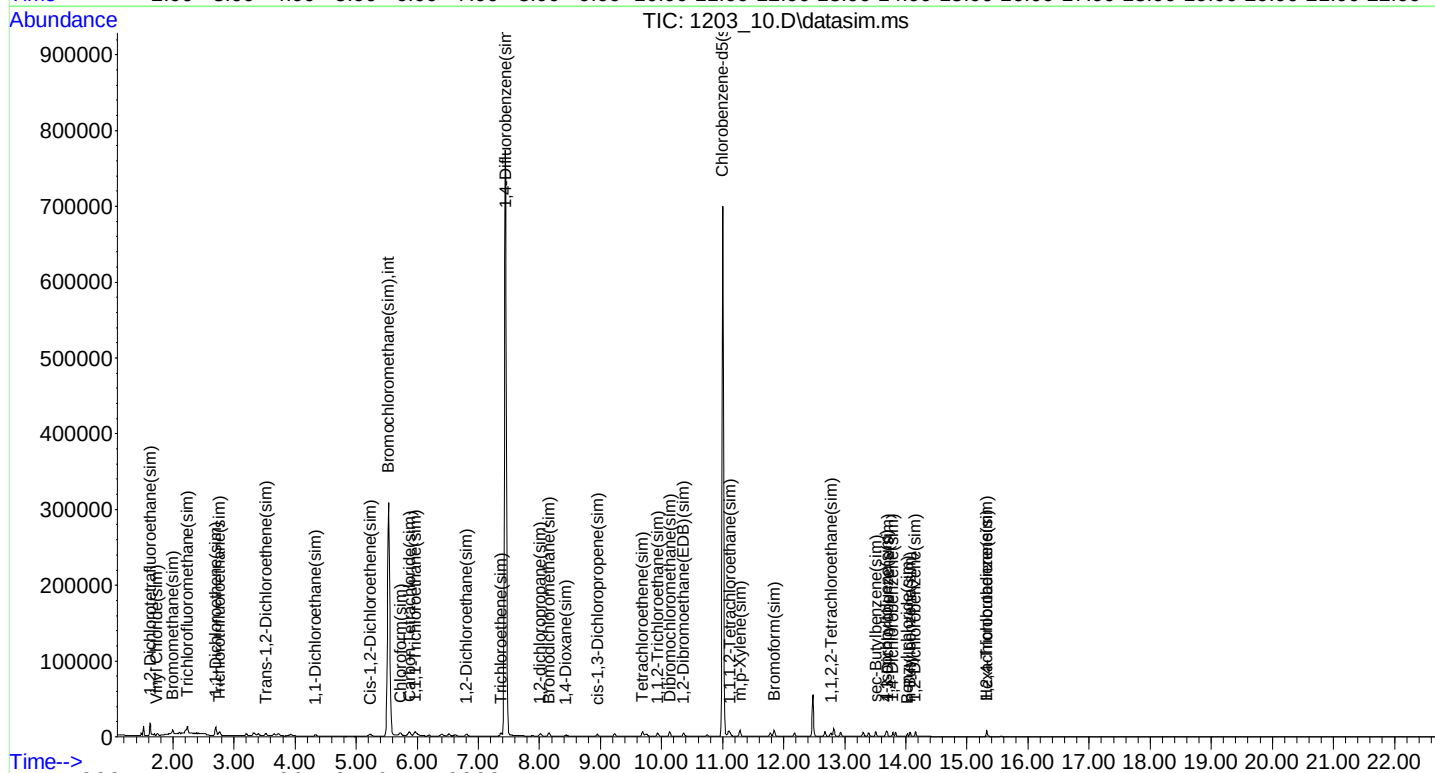
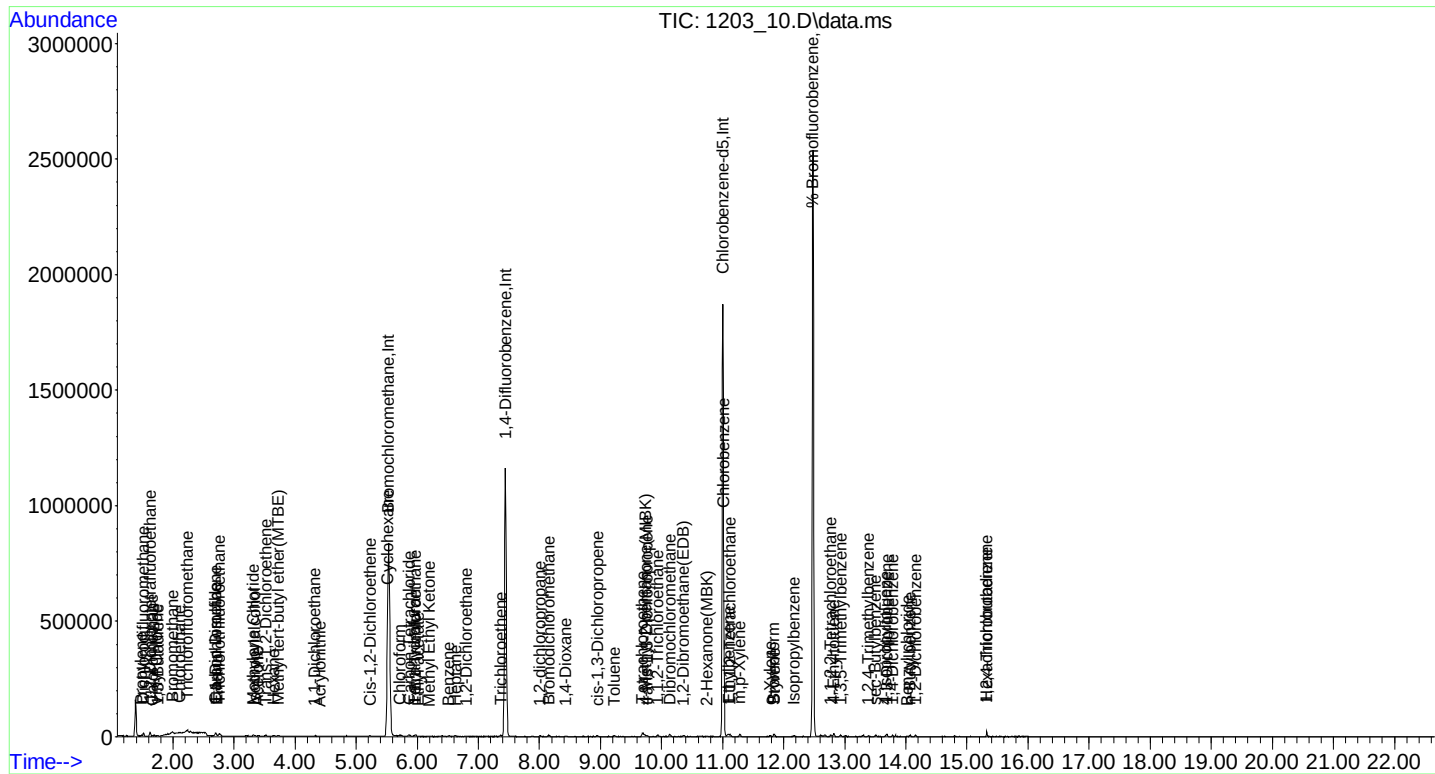
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

```
Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
Data File : 1203_10.D  
Acq On : 3 Dec 2019 6:20 pm  
Operator : Keith  
Client ID : ICAL 0.05  
Lab ID : 0.05 ppbV  
ALS Vial : 5 Sample Multiplier: 1
```

Quant Time: Dec 04 08:56:23 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Wed Dec 04 08:55:42 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_11.D  
 Acq On : 3 Dec 2019 6:52 pm  
 Operator : Keith  
 Client ID : ICAL 0.1  
 Lab ID : 0.10 ppbv  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 08:54:50 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:52:56 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.533  | 130  | 383191   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.443  | 114  | 960165   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 11.001 | 82   | 518746   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.535  | 130  | 397091   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.446  | 114  | 1063835  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 11.004 | 82   | 567692   | 10.000 | ng    | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 62) % Bromofluorobenzene    | 12.477 | 95    | 725524   | 9.189    | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 70 - 130 | Recovery | =    | 91.90% |

|                               |        |     |       |       |       |        |
|-------------------------------|--------|-----|-------|-------|-------|--------|
| Target Compounds              |        |     |       |       |       | Qvalue |
| 2) Propylene                  | 1.485  | 41  | 3202  | 0.090 | ppbv# | 76     |
| 3) Dichlorodifluoromethane    | 1.519  | 101 | 1631  | 0.101 | ppbv  | 95     |
| 4) Chloromethane              | 1.656  | 50  | 3637  | 0.119 | ppbv  | 98     |
| 5) 1,2-Dichlorotetrafluor...  | 1.629  | 135 | 10833 | 0.121 | ppbv  | 93     |
| 6) Vinyl Chloride             | 1.732  | 62  | 3904  | 0.108 | ppbv  | 85     |
| 7) 1,3-Butadiene              | 1.752  | 54  | 2106  | 0.098 | ppbv  | 91     |
| 8) Bromomethane               | 1.999  | 94  | 8186  | 0.154 | ppbv# | 82     |
| 9) Chloroethane               | 2.115  | 64  | 2970  | 0.162 | ppbv  | 91     |
| 10) Ethanol                   | 0.000  | 45  | 0m    | 0.000 | ppbv  | 76     |
| 12) Acetone                   | 3.409  | 43  | 11343 | 0.183 | ppbv  | 95     |
| 13) Trichlorofluoromethane    | 2.239  | 101 | 17074 | 0.138 | ppbv# | 96     |
| 14) Isopropylalcohol          | 3.368  | 45  | 6432  | 0.121 | ppbv# | 79     |
| 15) Acrylonitrile             | 4.419  | 53  | 1746  | 0.098 | ppbv  | 98     |
| 16) 1,1-Dichloroethene        | 2.697  | 61  | 7991  | 0.127 | ppbv  | 97     |
| 17) Methylene Chloride        | 3.313  | 49  | 5388  | 0.136 | ppbv  | 97     |
| 20) Carbon Disulfide          | 2.704  | 76  | 17889 | 0.166 | ppbv  | 94     |
| 21) Trichlorotrifluoroethane  | 2.773  | 101 | 11995 | 0.141 | ppbv  | 95     |
| 22) Trans-1,2-Dichloroethene  | 3.518  | 61  | 5435  | 0.108 | ppbv  | 95     |
| 23) 1,1-Dichloroethane        | 4.332  | 63  | 7479  | 0.113 | ppbv  | 67     |
| 24) Methyl tert-butyl ethe... | 3.723  | 73  | 8976  | 0.104 | ppbv  | 96     |
| 25) Methyl Ethyl Ketone       | 6.217  | 43  | 4731  | 0.097 | ppbv# | 82     |
| 26) Cis-1,2-Dichloroethene    | 5.223  | 61  | 4820  | 0.091 | ppbv  | 96     |
| 27) Hexane                    | 3.648  | 57  | 3928  | 0.081 | ppbv  | 91     |
| 28) Chloroform                | 5.727  | 83  | 9017  | 0.103 | ppbv  | 97     |
| 29) Ethyl acetate             | 6.023  | 43  | 6350  | 0.108 | ppbv  | 97     |
| 30) Tetrahydrofuran           | 5.958  | 42  | 2475  | 0.107 | ppbv# | 83     |
| 31) 1,2-Dichloroethane        | 6.813  | 62  | 6981  | 0.109 | ppbv  | 97     |
| 32) 1,1,1-Trichloroethane     | 5.965  | 97  | 9954  | 0.112 | ppbv  | 95     |
| 33) Benzene                   | 6.525  | 78  | 8239  | 0.094 | ppbv  | 99     |
| 34) Carbon Tetrachloride      | 5.871  | 117 | 11324 | 0.111 | ppbv  | 93     |
| 35) Cyclohexane               | 5.525  | 56  | 3383  | 0.082 | ppbv# | 88     |
| 37) 1,2-dichloropropane       | 8.025  | 63  | 2975  | 0.093 | ppbv  | 97     |
| 38) Bromodichloromethane      | 8.155  | 83  | 8986  | 0.102 | ppbv  | 95     |
| 39) Trichloroethene           | 7.367  | 130 | 4851  | 0.099 | ppbv  | 94     |
| 41) 1,4-Dioxane               | 8.428  | 88  | 1310  | 0.067 | ppbv# | 97     |
| 43) Heptane                   | 6.607  | 43  | 3506  | 0.090 | ppbv  | 94     |
| 44) cis-1,3-Dichloropropene   | 8.948  | 75  | 4229  | 0.070 | ppbv  | 95     |
| 45) 4-Methyl-2-pentanone(M... | 9.735  | 43  | 4708  | 0.081 | ppbv# | 97     |
| 46) trans-1,3-Dichloropropene | 9.763  | 75  | 4788  | 0.091 | ppbv# | 90     |
| 47) 1,1,2-Trichloroethane     | 9.937  | 97  | 4487  | 0.104 | ppbv  | 92     |
| 48) Toluene                   | 9.229  | 91  | 7741  | 0.077 | ppbv# | 98     |
| 49) Dibromochloromethane      | 10.139 | 129 | 10260 | 0.104 | ppbv  | 94     |
| 50) 2-Hexanone(MBK)           | 10.748 | 43  | 4157  | 0.065 | ppbv# | 92     |
| 51) 1,2-Dibromoethane(EDB)    | 10.363 | 107 | 7114  | 0.093 | ppbv  | 94     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_11.D  
 Acq On : 3 Dec 2019 6:52 pm  
 Operator : Keith  
 Client ID : ICAL 0.1  
 Lab ID : 0.10 ppbv  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 08:54:50 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Wed Dec 04 08:52:56 2019  
 Response via : Initial Calibration

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene         | 9.691  | 166  | 6617     | 0.096 | ppbv  | 95       |
| 54)  | 1,1,1,2-Tetrachloroethane | 11.125 | 131  | 5439     | 0.116 | ppbv  | 92       |
| 55)  | Chlorobenzene             | 11.022 | 112  | 7608     | 0.098 | ppbv# | 4        |
| 56)  | Ethylbenzene              | 11.098 | 91   | 10897    | 0.093 | ppbv  | 97       |
| 57)  | m,p-Xylene                | 11.283 | 91   | 13967    | 0.162 | ppbv  | 98       |
| 58)  | Bromoform                 | 11.839 | 173  | 8437     | 0.102 | ppbv  | 97       |
| 59)  | Styrene                   | 11.852 | 104  | 4104     | 0.063 | ppbv  | 93       |
| 60)  | 1,1,2,2-Tetrachloroethane | 12.776 | 83   | 8713     | 0.104 | ppbv  | 100      |
| 61)  | o-Xylene                  | 11.777 | 91   | 6544     | 0.065 | ppbv  | 97       |
| 64)  | Isopropylbenzene          | 12.179 | 105  | 8187     | 0.066 | ppbv  | 96       |
| 66)  | 4-Ethyltoluene            | 12.815 | 105  | 9875     | 0.079 | ppbv  | 97       |
| 67)  | 1,3,5-Trimethylbenzene    | 12.932 | 105  | 8015     | 0.075 | ppbv  | 97       |
| 68)  | 1,2,4-Trimethylbenzene    | 13.386 | 105  | 6830     | 0.067 | ppbv  | 93       |
| 70)  | Benzyl chloride           | 14.022 | 91   | 4879     | 0.063 | ppbv  | 99       |
| 71)  | 1,3-Dichlorobenzene       | 13.691 | 146  | 7813     | 0.101 | ppbv  | 99       |
| 72)  | 1,4-Dichlorobenzene       | 13.782 | 146  | 6727     | 0.089 | ppbv  | 98       |
| 73)  | sec-Butylbenzene          | 13.503 | 105  | 10297    | 0.073 | ppbv  | 98       |
| 74)  | 4-Isopropyltoluene        | 13.678 | 119  | 7761     | 0.068 | ppbv  | 99       |
| 75)  | 1,2-Dichlorobenzene       | 14.158 | 146  | 6774     | 0.097 | ppbv  | 99       |
| 76)  | n-Butylbenzene            | 14.067 | 91   | 6971     | 0.075 | ppbv  | 97       |
| 77)  | 1,2,4-Trichlorobenzene    | 15.324 | 180  | 1613     | 0.038 | ppbv  | 94       |
| 79)  | Hexachlorobutadiene       | 15.324 | 225  | 6680     | 0.096 | ppbv  | 98       |
| 81)  | 1,2-Dichlorotetrafluor... | 1.629  | 135  | 10833    | 0.109 | ppbv  | 93       |
| 82)  | Vinyl Chloride(sim)       | 1.735  | 62   | 4205     | 0.101 | ppbv  | 95       |
| 83)  | Bromomethane(sim)         | 1.999  | 94   | 7369     | 0.139 | ppbv  | 90       |
| 84)  | Trichlorofluoromethane... | 2.235  | 101  | 17710    | 0.114 | ppbv  | 100      |
| 85)  | 1,1,1-Trichloroethane(... | 5.965  | 97   | 9954     | 0.105 | ppbv# | 96       |
| 86)  | Carbon Tetrachloride(sim) | 5.867  | 117  | 11400    | 0.106 | ppbv  | 100      |
| 87)  | 1,1-Dichloroethene(sim)   | 2.697  | 61   | 7991     | 0.113 | ppbv  | 98       |
| 88)  | Trichlorotrifluoroetha... | 2.769  | 101  | 12341    | 0.125 | ppbv  | 99       |
| 89)  | Trans-1,2-Dichloroethe... | 3.518  | 61   | 5435     | 0.103 | ppbv  | 95       |
| 90)  | 1,1-Dichloroethane(sim)   | 4.339  | 63   | 7767     | 0.105 | ppbv  | 99       |
| 91)  | Cis-1,2-Dichloroethene... | 5.223  | 61   | 4820     | 0.098 | ppbv  | 96       |
| 92)  | Chloroform(sim)           | 5.723  | 83   | 9631     | 0.104 | ppbv  | 99       |
| 93)  | 1,2-Dichloroethane(sim)   | 6.813  | 62   | 6981     | 0.110 | ppbv# | 97       |
| 95)  | 1,2-dichloropropane(sim)  | 8.018  | 63   | 3087     | 0.101 | ppbv  | 98       |
| 96)  | Bromodichloromethane(sim) | 8.158  | 83   | 9406     | 0.101 | ppbv  | 100      |
| 97)  | Trichloroethene(sim)      | 7.367  | 130  | 4851     | 0.104 | ppbv  | 96       |
| 98)  | 1,4-Dioxane(sim)          | 8.431  | 88   | 1620     | 0.088 | ppbv# | 95       |
| 99)  | cis-1,3-Dichloropropen... | 8.948  | 75   | 4229     | 0.085 | ppbv  | 95       |
| 100) | 1,1,2-Trichloroethane(... | 9.940  | 97   | 4791     | 0.102 | ppbv  | 99       |
| 101) | Dibromochloromethane(sim) | 10.139 | 129  | 10260    | 0.106 | ppbv  | 91       |
| 102) | 1,2-Dibromoethane(EDB)... | 10.366 | 107  | 7787     | 0.097 | ppbv  | 98       |
| 103) | Tetrachloroethene(sim)    | 9.691  | 166  | 6617     | 0.104 | ppbv  | 90       |
| 105) | Bromoform(sim)            | 11.839 | 173  | 8369     | 0.101 | ppbv  | 93       |
| 106) | 1,1,1,2-Tetrachloroeth... | 11.128 | 131  | 5309     | 0.103 | ppbv  | 100      |
| 107) | m,p-Xylene(sim)           | 11.283 | 91   | 13967    | 0.152 | ppbv  | 98       |
| 108) | 1,1,2,2-Tetrachloroeth... | 12.772 | 83   | 9326     | 0.098 | ppbv  | 99       |
| 111) | Benzyl chloride(sim)      | 14.022 | 91   | 4879     | 0.083 | ppbv  | 99       |
| 112) | 1,3-Dichlorobenzene(sim)  | 13.694 | 146  | 8563     | 0.099 | ppbv  | 100      |
| 113) | 1,4-Dichlorobenzene(sim)  | 13.782 | 146  | 6727     | 0.095 | ppbv  | 98       |
| 114) | sec-Butylbenzene(sim)     | 13.506 | 105  | 11457    | 0.072 | ppbv  | 99       |
| 115) | 4-Isopropyltoluene(sim)   | 13.678 | 119  | 7761     | 0.068 | ppbv  | 99       |
| 116) | 1,2-Dichlorobenzene(sim)  | 14.161 | 146  | 7487     | 0.095 | ppbv  | 99       |
| 117) | n-Butylbenzene(sim)       | 14.067 | 91   | 6971     | 0.073 | ppbv  | 97       |
| 118) | 1,2,4-Trichlorobenzene... | 15.322 | 180  | 1862     | 0.061 | ppbv  | 94       |
| 119) | Hexachlorobutadiene(sim)  | 15.324 | 225  | 6736     | 0.099 | ppbv  | 96       |

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_11.D  
 Acq On : 3 Dec 2019 6:52 pm  
 Operator : Keith  
 Client ID : ICAL 0.1  
 Lab ID : 0.10 ppbv  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 08:54:50 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:52:56 2019  
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

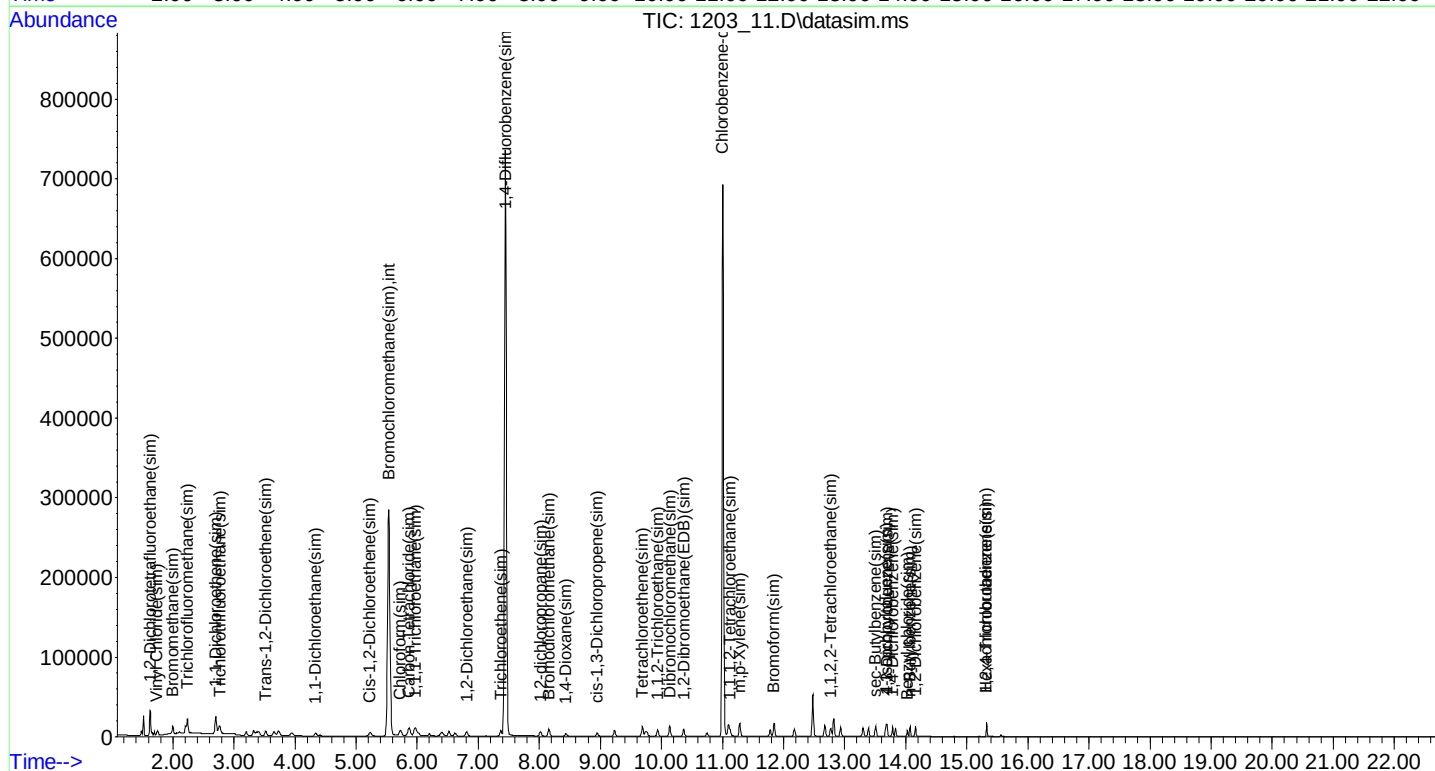
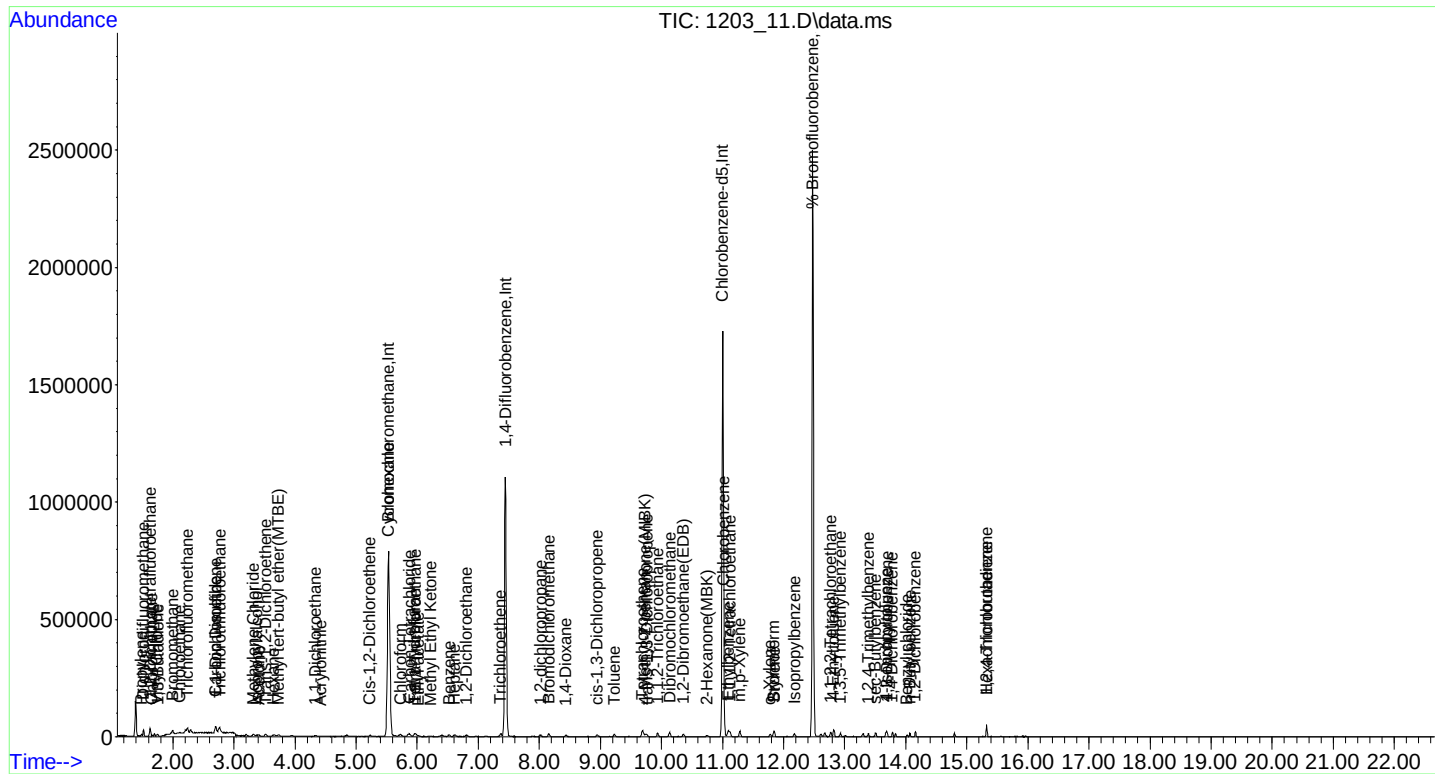
(#)out of range (m>manual integration reviewed by analyst (+)signals summed



Quantitation Report (RF) (QT Reviewed)

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Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
Data File : 1203_11.D  
Acq On : 3 Dec 2019 6:52 pm  
Operator : Keith  
Client ID : ICAI 0.1  
Lab ID : 0.10 ppbv  
ALS Vial : 6 Sample Multiplier: 1
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Quant Time: Dec 04 08:54:50 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Wed Dec 04 08:52:56 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_12.D  
 Acq On : 3 Dec 2019 7:28 pm  
 Operator : Keith  
 Client ID : ICAL 0.5  
 Lab ID : 0.5ppbv  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 04 08:52:18 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:52:08 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.532  | 130  | 349772   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.443  | 114  | 915882   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 11.001 | 82   | 507302   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.535  | 130  | 367488   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.446  | 114  | 1018169  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 11.004 | 82   | 548214   | 10.000 | ng    | 0.00     |

System Monitoring Compounds  
 62) % Bromofluorobenzene 12.477 95 724047 9.295 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 92.90%

| Target Compounds              | R.T.   | QIon | Response | Conc  | Units | Qvalue |
|-------------------------------|--------|------|----------|-------|-------|--------|
| 2) Propylene                  | 1.485  | 41   | 14198    | 0.438 | ppbv  | 92     |
| 3) Dichlorodifluoromethane    | 1.519  | 101  | 7962     | 0.539 | ppbv  | 95     |
| 4) Chloromethane              | 1.656  | 50   | 16098    | 0.578 | ppbv  | 91     |
| 5) 1,2-Dichlorotetrafluor...  | 1.622  | 135  | 47099    | 0.576 | ppbv  | 98     |
| 6) Vinyl Chloride             | 1.732  | 62   | 18087    | 0.548 | ppbv  | 96     |
| 7) 1,3-Butadiene              | 1.752  | 54   | 9967     | 0.508 | ppbv  | 88     |
| 8) Bromomethane               | 1.992  | 94   | 26778    | 0.552 | ppbv  | 96     |
| 9) Chloroethane               | 2.108  | 64   | 9113     | 0.543 | ppbv  | 91     |
| 10) Ethanol                   | 2.731  | 45   | 5917     | 0.682 | ppbv# | 68     |
| 12) Acetone                   | 3.402  | 43   | 38700    | 0.686 | ppbv  | 100    |
| 13) Trichlorofluoromethane    | 2.232  | 101  | 74356    | 0.657 | ppbv  | 99     |
| 14) Isopropylalcohol          | 3.354  | 45   | 25975    | 0.537 | ppbv  | 84     |
| 15) Acrylonitrile             | 4.409  | 53   | 7834     | 0.480 | ppbv  | 98     |
| 16) 1,1-Dichloroethene        | 2.697  | 61   | 33031    | 0.577 | ppbv  | 97     |
| 17) Methylene Chloride        | 3.313  | 49   | 20125    | 0.556 | ppbv  | 99     |
| 20) Carbon Disulfide          | 2.697  | 76   | 62599    | 0.636 | ppbv  | 97     |
| 21) Trichlorotrifluoroethane  | 2.766  | 101  | 50187    | 0.644 | ppbv  | 99     |
| 22) Trans-1,2-Dichloroethene  | 3.518  | 61   | 23435    | 0.508 | ppbv  | 95     |
| 23) 1,1-Dichloroethane        | 4.341  | 63   | 30664    | 0.506 | ppbv  | 98     |
| 24) Methyl tert-butyl ethe... | 3.716  | 73   | 39673    | 0.504 | ppbv  | 100    |
| 25) Methyl Ethyl Ketone       | 6.196  | 43   | 19394    | 0.434 | ppbv  | 99     |
| 26) Cis-1,2-Dichloroethene    | 5.222  | 61   | 21440    | 0.446 | ppbv  | 98     |
| 27) Hexane                    | 3.655  | 57   | 17343    | 0.393 | ppbv# | 65     |
| 28) Chloroform                | 5.727  | 83   | 40708    | 0.511 | ppbv  | 99     |
| 29) Ethyl acetate             | 6.008  | 43   | 27648    | 0.515 | ppbv# | 20     |
| 30) Tetrahydrofuran           | 5.943  | 42   | 10070    | 0.475 | ppbv  | 97     |
| 31) 1,2-Dichloroethane        | 6.806  | 62   | 28980    | 0.498 | ppbv  | 98     |
| 32) 1,1,1-Trichloroethane     | 5.965  | 97   | 44619    | 0.548 | ppbv  | 99     |
| 33) Benzene                   | 6.518  | 78   | 37879    | 0.473 | ppbv  | 99     |
| 34) Carbon Tetrachloride      | 5.864  | 117  | 49014    | 0.526 | ppbv  | 99     |
| 35) Cyclohexane               | 5.525  | 56   | 15935    | 0.425 | ppbv  | 98     |
| 37) 1,2-dichloropropane       | 8.018  | 63   | 13475    | 0.441 | ppbv  | 94     |
| 38) Bromodichloromethane      | 8.155  | 83   | 42679    | 0.508 | ppbv  | 99     |
| 39) Trichloroethene           | 7.367  | 130  | 20578    | 0.440 | ppbv  | 97     |
| 41) 1,4-Dioxane               | 8.421  | 88   | 6880     | 0.369 | ppbv  | 91     |
| 43) Heptane                   | 6.614  | 43   | 16847    | 0.455 | ppbv  | 99     |
| 44) cis-1,3-Dichloropropene   | 8.948  | 75   | 22816    | 0.398 | ppbv  | 99     |
| 45) 4-Methyl-2-pentanone(M... | 9.734  | 43   | 26340    | 0.478 | ppbv  | 98     |
| 46) trans-1,3-Dichloropropene | 9.763  | 75   | 24462    | 0.487 | ppbv  | 98     |
| 47) 1,1,2-Trichloroethane     | 9.937  | 97   | 20124    | 0.488 | ppbv  | 99     |
| 48) Toluene                   | 9.229  | 91   | 40966    | 0.426 | ppbv  | 98     |
| 49) Dibromochloromethane      | 10.132 | 129  | 46571    | 0.497 | ppbv  | 98     |
| 50) 2-Hexanone(MBK)           | 10.741 | 43   | 22542    | 0.371 | ppbv  | 97     |
| 51) 1,2-Dibromoethane(EDB)    | 10.363 | 107  | 33583    | 0.461 | ppbv  | 100    |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_12.D  
 Acq On : 3 Dec 2019 7:28 pm  
 Operator : Keith  
 Client ID : ICAL 0.5  
 Lab ID : 0.5ppbv  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 04 08:52:18 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Wed Dec 04 08:52:08 2019  
 Response via : Initial Calibration

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene         | 9.691  | 166  | 29965    | 0.455 | ppbv  | 97       |
| 54)  | 1,1,1,2-Tetrachloroethane | 11.125 | 131  | 23965    | 0.524 | ppbv  | 99       |
| 55)  | Chlorobenzene             | 11.022 | 112  | 36333    | 0.477 | ppbv# | 79       |
| 56)  | Ethylbenzene              | 11.097 | 91   | 56239    | 0.492 | ppbv  | 98       |
| 57)  | m,p-Xylene                | 11.283 | 91   | 81813    | 0.973 | ppbv  | 99       |
| 58)  | Bromoform                 | 11.838 | 173  | 43313    | 0.537 | ppbv  | 99       |
| 59)  | Styrene                   | 11.852 | 104  | 25785    | 0.404 | ppbv  | 99       |
| 60)  | 1,1,2,2-Tetrachloroethane | 12.776 | 83   | 40910    | 0.498 | ppbv# | 94       |
| 61)  | o-Xylene                  | 11.784 | 91   | 35763    | 0.361 | ppbv  | 97       |
| 64)  | Isopropylbenzene          | 12.179 | 105  | 51198    | 0.420 | ppbv  | 99       |
| 66)  | 4-Ethyltoluene            | 12.821 | 105  | 60662    | 0.498 | ppbv  | 98       |
| 67)  | 1,3,5-Trimethylbenzene    | 12.931 | 105  | 49331    | 0.475 | ppbv  | 99       |
| 68)  | 1,2,4-Trimethylbenzene    | 13.392 | 105  | 48175    | 0.480 | ppbv  | 99       |
| 70)  | Benzyl chloride           | 14.022 | 91   | 27536    | 0.351 | ppbv  | 98       |
| 71)  | 1,3-Dichlorobenzene       | 13.691 | 146  | 40640    | 0.539 | ppbv  | 99       |
| 72)  | 1,4-Dichlorobenzene       | 13.781 | 146  | 35183    | 0.474 | ppbv  | 99       |
| 73)  | sec-Butylbenzene          | 13.509 | 105  | 68161    | 0.495 | ppbv  | 99       |
| 74)  | 4-Isopropyltoluene        | 13.678 | 119  | 51056    | 0.457 | ppbv  | 98       |
| 75)  | 1,2-Dichlorobenzene       | 14.158 | 146  | 34871    | 0.510 | ppbv  | 99       |
| 76)  | n-Butylbenzene            | 14.067 | 91   | 45675    | 0.506 | ppbv  | 97       |
| 77)  | 1,2,4-Trichlorobenzene    | 15.324 | 180  | 9362     | 0.222 | ppbv# | 95       |
| 79)  | Hexachlorobutadiene       | 15.324 | 225  | 31915    | 0.469 | ppbv  | 100      |
| 81)  | 1,2-Dichlorotetrafluor... | 1.622  | 135  | 47099    | 0.511 | ppbv  | 98       |
| 82)  | Vinyl Chloride(sim)       | 1.735  | 62   | 19434    | 0.505 | ppbv  | 99       |
| 83)  | Bromomethane(sim)         | 1.992  | 94   | 26778    | 0.561 | ppbv  | 96       |
| 84)  | Trichlorofluoromethane... | 2.235  | 101  | 77254    | 0.539 | ppbv  | 99       |
| 85)  | 1,1,1-Trichloroethane(... | 5.965  | 97   | 44619    | 0.510 | ppbv# | 99       |
| 86)  | Carbon Tetrachloride(sim) | 5.867  | 117  | 51788    | 0.522 | ppbv  | 100      |
| 87)  | 1,1-Dichloroethene(sim)   | 2.697  | 61   | 33031    | 0.507 | ppbv  | 98       |
| 88)  | Trichlorotrifluoroetha... | 2.762  | 101  | 52690    | 0.611 | ppbv  | 99       |
| 89)  | Trans-1,2-Dichloroethe... | 3.518  | 61   | 23435    | 0.479 | ppbv  | 95       |
| 90)  | 1,1-Dichloroethane(sim)   | 4.334  | 63   | 32953    | 0.479 | ppbv  | 100      |
| 91)  | Cis-1,2-Dichloroethene... | 5.222  | 61   | 21440    | 0.471 | ppbv  | 99       |
| 92)  | Chloroform(sim)           | 5.723  | 83   | 43494    | 0.505 | ppbv  | 100      |
| 93)  | 1,2-Dichloroethane(sim)   | 6.806  | 62   | 28980    | 0.495 | ppbv  | 99       |
| 95)  | 1,2-dichloropropane(sim)  | 8.018  | 63   | 13475    | 0.463 | ppbv  | 95       |
| 96)  | Bromodichloromethane(sim) | 8.158  | 83   | 45429    | 0.512 | ppbv  | 100      |
| 97)  | Trichloroethene(sim)      | 7.367  | 130  | 20578    | 0.462 | ppbv  | 96       |
| 98)  | 1,4-Dioxane(sim)          | 8.424  | 88   | 7723     | 0.412 | ppbv  | 97       |
| 99)  | cis-1,3-Dichloropropen... | 8.948  | 75   | 22816    | 0.477 | ppbv  | 99       |
| 100) | 1,1,2-Trichloroethane(... | 9.940  | 97   | 22324    | 0.496 | ppbv  | 100      |
| 101) | Dibromochloromethane(sim) | 10.132 | 129  | 46571    | 0.502 | ppbv  | 97       |
| 102) | 1,2-Dibromoethane(EDB)... | 10.365 | 107  | 37030    | 0.482 | ppbv  | 99       |
| 103) | Tetrachloroethene(sim)    | 9.691  | 166  | 29965    | 0.492 | ppbv  | 97       |
| 105) | Bromoform(sim)            | 11.838 | 173  | 42949    | 0.538 | ppbv  | 99       |
| 106) | 1,1,1,2-Tetrachloroeth... | 11.121 | 131  | 25437    | 0.511 | ppbv  | 100      |
| 107) | m,p-Xylene(sim)           | 11.283 | 91   | 81817    | 0.894 | ppbv  | 99       |
| 108) | 1,1,2,2-Tetrachloroeth... | 12.772 | 83   | 44382    | 0.485 | ppbv  | 100      |
| 111) | Benzyl chloride(sim)      | 14.022 | 91   | 27536    | 0.451 | ppbv  | 98       |
| 112) | 1,3-Dichlorobenzene(sim)  | 13.694 | 146  | 45596    | 0.547 | ppbv  | 100      |
| 113) | 1,4-Dichlorobenzene(sim)  | 13.781 | 146  | 35183    | 0.506 | ppbv  | 99       |
| 114) | sec-Butylbenzene(sim)     | 13.505 | 105  | 74568    | 0.477 | ppbv  | 99       |
| 115) | 4-Isopropyltoluene(sim)   | 13.678 | 119  | 51056    | 0.445 | ppbv  | 98       |
| 116) | 1,2-Dichlorobenzene(sim)  | 14.161 | 146  | 39796    | 0.526 | ppbv  | 100      |
| 117) | n-Butylbenzene(sim)       | 14.067 | 91   | 45675    | 0.480 | ppbv  | 97       |
| 118) | 1,2,4-Trichlorobenzene... | 15.322 | 180  | 10812    | 0.346 | ppbv  | 96       |
| 119) | Hexachlorobutadiene(sim)  | 15.324 | 225  | 31915    | 0.484 | ppbv  | 98       |

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_12.D  
 Acq On : 3 Dec 2019 7:28 pm  
 Operator : Keith  
 Client ID : ICAL 0.5  
 Lab ID : 0.5ppbv  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 04 08:52:18 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:52:08 2019  
 Response via : Initial Calibration

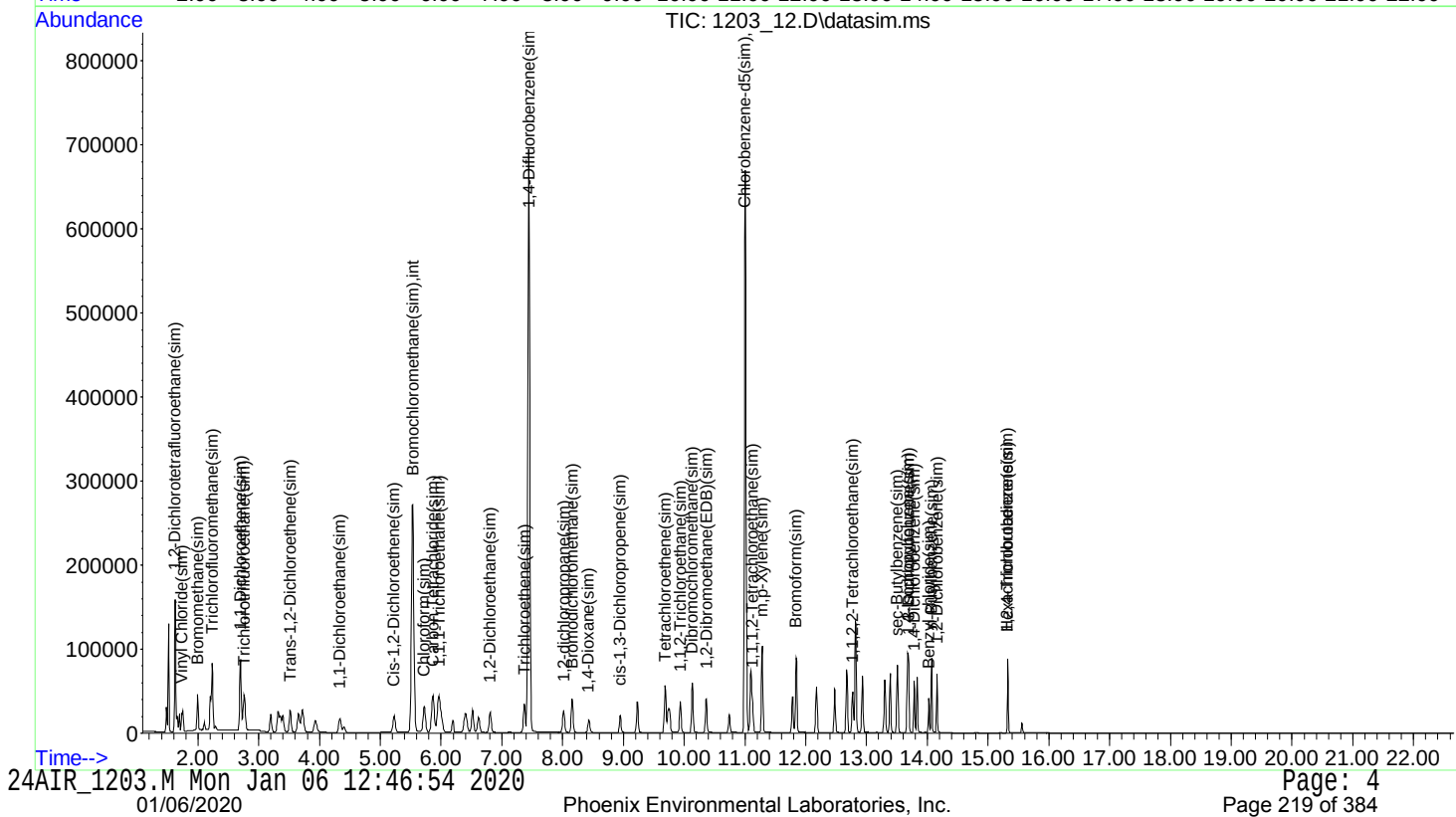
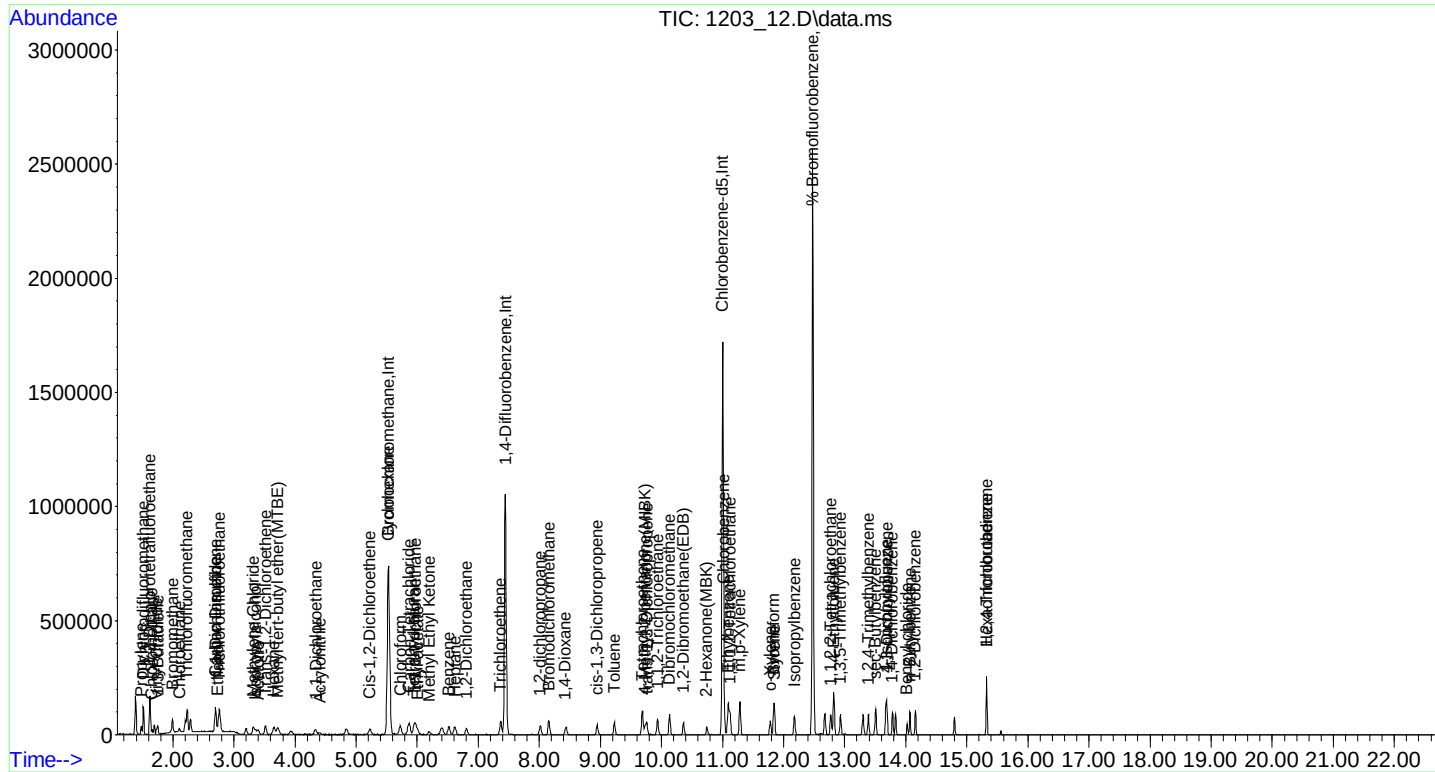
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

```
Data Path : H:\AIR2019\CHEM24\12DEC\03B\
Data File : 1203_12.D
Acq On : 3 Dec 2019 7:28 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5ppbv
ALS Vial : 8 Sample Multiplier: 1
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Quant Time: Dec 04 08:52:18 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Wed Dec 04 08:52:08 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_13.D  
 Acq On : 3 Dec 2019 8:03 pm  
 Operator : Keith  
 Client ID : ICAL 2.5  
 Lab ID : 2.5 ppbv  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 04 08:51:53 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:51:38 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.535  | 130  | 289303   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.446  | 114  | 787200   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 11.004 | 82   | 447950   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.531  | 130  | 303638   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.448  | 114  | 867876   | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 11.000 | 82   | 483588   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

62) % Bromofluorobenzene 12.480 95 653504 9.423 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 94.20%

## Target Compounds

|                               |        |     |        |       |       | Qvalue |
|-------------------------------|--------|-----|--------|-------|-------|--------|
| 2) Propylene                  | 1.478  | 41  | 63213  | 2.357 | ppbv  | 99     |
| 3) Dichlorodifluoromethane    | 1.513  | 101 | 34725  | 2.842 | ppbv  | 98     |
| 4) Chloromethane              | 1.656  | 50  | 62489  | 2.715 | ppbv  | 100    |
| 5) 1,2-Dichlorotetrafluor...  | 1.622  | 135 | 184077 | 2.720 | ppbv  | 99     |
| 6) Vinyl Chloride             | 1.732  | 62  | 68775  | 2.520 | ppbv  | 99     |
| 7) 1,3-Butadiene              | 1.752  | 54  | 42450  | 2.615 | ppbv  | 99     |
| 8) Bromomethane               | 1.992  | 94  | 99020  | 2.466 | ppbv  | 99     |
| 9) Chloroethane               | 2.102  | 64  | 32351  | 2.332 | ppbv  | 99     |
| 10) Ethanol                   | 2.718  | 45  | 20746  | 2.890 | ppbv# | 89     |
| 12) Acetone                   | 3.388  | 43  | 132434 | 2.837 | ppbv  | 100    |
| 13) Trichlorofluoromethane    | 2.232  | 101 | 263231 | 2.812 | ppbv  | 100    |
| 14) Isopropylalcohol          | 3.340  | 45  | 101882 | 2.545 | ppbv  | 93     |
| 15) Acrylonitrile             | 4.398  | 53  | 33349  | 2.470 | ppbv  | 97     |
| 16) 1,1-Dichloroethene        | 2.697  | 61  | 124781 | 2.636 | ppbv  | 98     |
| 17) Methylene Chloride        | 3.313  | 49  | 75272  | 2.512 | ppbv  | 100    |
| 20) Carbon Disulfide          | 2.697  | 76  | 223265 | 2.743 | ppbv  | 99     |
| 21) Trichlorotrifluoroethane  | 2.759  | 101 | 178137 | 2.765 | ppbv  | 100    |
| 22) Trans-1,2-Dichloroethene  | 3.511  | 61  | 94454  | 2.476 | ppbv  | 98     |
| 23) 1,1-Dichloroethane        | 4.330  | 63  | 122743 | 2.451 | ppbv  | 100    |
| 24) Methyl tert-butyl ethe... | 3.710  | 73  | 160929 | 2.474 | ppbv  | 100    |
| 25) Methyl Ethyl Ketone       | 6.191  | 43  | 92946  | 2.517 | ppbv  | 100    |
| 26) Cis-1,2-Dichloroethene    | 5.225  | 61  | 99050  | 2.490 | ppbv  | 99     |
| 27) Hexane                    | 3.655  | 57  | 101505 | 2.778 | ppbv# | 80     |
| 28) Chloroform                | 5.723  | 83  | 174409 | 2.645 | ppbv  | 100    |
| 29) Ethyl acetate             | 6.004  | 43  | 114202 | 2.572 | ppbv  | 96     |
| 30) Tetrahydrofuran           | 5.932  | 42  | 43169  | 2.462 | ppbv  | 97     |
| 31) 1,2-Dichloroethane        | 6.809  | 62  | 123932 | 2.574 | ppbv  | 99     |
| 32) 1,1,1-Trichloroethane     | 5.968  | 97  | 174644 | 2.595 | ppbv  | 100    |
| 33) Benzene                   | 6.514  | 78  | 161644 | 2.442 | ppbv  | 99     |
| 34) Carbon Tetrachloride      | 5.867  | 117 | 206059 | 2.673 | ppbv  | 100    |
| 35) Cyclohexane               | 5.528  | 56  | 75979  | 2.450 | ppbv  | 97     |
| 37) 1,2-dichloropropane       | 8.014  | 63  | 65569  | 2.496 | ppbv  | 99     |
| 38) Bromodichloromethane      | 8.158  | 83  | 196773 | 2.725 | ppbv  | 100    |
| 39) Trichloroethene           | 7.370  | 130 | 96652  | 2.404 | ppbv  | 99     |
| 41) 1,4-Dioxane               | 8.417  | 88  | 37421  | 2.337 | ppbv  | 97     |
| 43) Heptane                   | 6.617  | 43  | 82217  | 2.583 | ppbv  | 99     |
| 44) cis-1,3-Dichloropropene   | 8.951  | 75  | 122793 | 2.495 | ppbv  | 99     |
| 45) 4-Methyl-2-pentanone(M... | 9.731  | 43  | 132914 | 2.806 | ppbv  | 99     |
| 46) trans-1,3-Dichloropropene | 9.759  | 75  | 115014 | 2.666 | ppbv  | 99     |
| 47) 1,1,2-Trichloroethane     | 9.933  | 97  | 87249  | 2.460 | ppbv  | 99     |
| 48) Toluene                   | 9.225  | 91  | 219202 | 2.650 | ppbv  | 99     |
| 49) Dibromochloromethane      | 10.135 | 129 | 208232 | 2.583 | ppbv  | 99     |
| 50) 2-Hexanone(MBK)           | 10.737 | 43  | 130567 | 2.499 | ppbv  | 98     |
| 51) 1,2-Dibromoethane(EDB)    | 10.359 | 107 | 154266 | 2.466 | ppbv  | 100    |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_13.D  
 Acq On : 3 Dec 2019 8:03 pm  
 Operator : Keith  
 Client ID : ICAL 2.5  
 Lab ID : 2.5 ppbV  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 04 08:51:53 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Wed Dec 04 08:51:38 2019  
 Response via : Initial Calibration

|      | Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|----------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene          | 9.687  | 166  | 139684   | 2.467 | ppbv  | 99       |
| 54)  | 1,1,1,2-Tetrachloroethane  | 11.121 | 131  | 101847   | 2.521 | ppbv  | 98       |
| 55)  | Chlorobenzene              | 11.025 | 112  | 166189   | 2.473 | ppbv  | 97       |
| 56)  | Ethylbenzene               | 11.100 | 91   | 266687   | 2.644 | ppbv  | 99       |
| 57)  | m,p-Xylene                 | 11.279 | 91   | 410070   | 5.523 | ppbv  | 99       |
| 58)  | Bromoform                  | 11.841 | 173  | 195565   | 2.744 | ppbv  | 100      |
| 59)  | Styrene                    | 11.848 | 104  | 146147   | 2.595 | ppbv  | 98       |
| 60)  | 1,1,2,2-Tetrachloroethane  | 12.772 | 83   | 185425   | 2.557 | ppbv  | 100      |
| 61)  | o-Xylene                   | 11.780 | 91   | 226281   | 2.588 | ppbv  | 99       |
| 64)  | Isopropylbenzene           | 12.175 | 105  | 292733   | 2.721 | ppbv  | 99       |
| 66)  | 4-Ethyltoluene             | 12.818 | 105  | 290944   | 2.706 | ppbv  | 99       |
| 67)  | 1,3,5-Trimethylbenzene     | 12.928 | 105  | 242376   | 2.644 | ppbv  | 98       |
| 68)  | 1,2,4-Trimethylbenzene     | 13.389 | 105  | 250001   | 2.823 | ppbv  | 99       |
| 70)  | Benzyl chloride            | 14.025 | 91   | 165159   | 2.366 | ppbv  | 99       |
| 71)  | 1,3-Dichlorobenzene        | 13.694 | 146  | 173061   | 2.600 | ppbv  | 99       |
| 72)  | 1,4-Dichlorobenzene        | 13.784 | 146  | 165435   | 2.523 | ppbv  | 100      |
| 73)  | sec-Butylbenzene           | 13.505 | 105  | 333438   | 2.742 | ppbv  | 99       |
| 74)  | 4-Isopropyltoluene         | 13.674 | 119  | 277787   | 2.816 | ppbv  | 99       |
| 75)  | 1,2-Dichlorobenzene        | 14.161 | 146  | 161030   | 2.668 | ppbv  | 99       |
| 76)  | n-Butylbenzene             | 14.070 | 91   | 234664   | 2.943 | ppbv  | 100      |
| 77)  | 1,2,4-Trichlorobenzene     | 15.320 | 180  | 66779    | 1.735 | ppbv  | 97       |
| 79)  | Hexachlorobutadiene        | 15.325 | 225  | 153690   | 2.654 | ppbv  | 100      |
| 81)  | 1,2-Dichlorotetrafluor...  | 1.622  | 135  | 184077   | 2.418 | ppbv  | 99       |
| 82)  | Vinyl Chloride(sim)        | 1.735  | 62   | 74620    | 2.346 | ppbv  | 100      |
| 83)  | Bromomethane(sim)          | 1.992  | 94   | 99120    | 2.531 | ppbv  | 99       |
| 84)  | Trichlorofluoromethane...  | 2.235  | 101  | 273688   | 2.313 | ppbv  | 99       |
| 85)  | 1,1,1-Trichloroethane(sim) | 5.968  | 97   | 174549   | 2.414 | ppbv# | 100      |
| 86)  | Carbon Tetrachloride(sim)  | 5.870  | 117  | 213126   | 2.598 | ppbv  | 100      |
| 87)  | 1,1-Dichloroethene(sim)    | 2.697  | 61   | 124781   | 2.316 | ppbv  | 98       |
| 88)  | Trichlorotrifluoroetha...  | 2.762  | 101  | 183900   | 2.696 | ppbv  | 100      |
| 89)  | Trans-1,2-Dichloroethe...  | 3.511  | 61   | 94309    | 2.334 | ppbv  | 98       |
| 90)  | 1,1-Dichloroethane(sim)    | 4.337  | 63   | 134058   | 2.361 | ppbv  | 100      |
| 91)  | Cis-1,2-Dichloroethene...  | 5.225  | 61   | 99050    | 2.632 | ppbv  | 99       |
| 92)  | Chloroform(sim)            | 5.726  | 83   | 185519   | 2.609 | ppbv  | 100      |
| 93)  | 1,2-Dichloroethane(sim)    | 6.809  | 62   | 123932   | 2.561 | ppbv  | 99       |
| 95)  | 1,2-dichloropropane(sim)   | 8.014  | 63   | 65569    | 2.640 | ppbv  | 99       |
| 96)  | Bromodichloromethane(sim)  | 8.154  | 83   | 206921   | 2.737 | ppbv  | 100      |
| 97)  | Trichloroethene(sim)       | 7.370  | 130  | 96579    | 2.541 | ppbv  | 99       |
| 98)  | 1,4-Dioxane(sim)           | 8.420  | 88   | 40775    | 2.192 | ppbv# | 97       |
| 99)  | cis-1,3-Dichloropropen...  | 8.951  | 75   | 123215   | 3.025 | ppbv  | 99       |
| 100) | 1,1,2-Trichloroethane(...) | 9.936  | 97   | 95944    | 2.501 | ppbv  | 100      |
| 101) | Dibromochloromethane(sim)  | 10.135 | 129  | 208232   | 2.633 | ppbv  | 99       |
| 102) | 1,2-Dibromoethane(EDB)...  | 10.362 | 107  | 165091   | 2.519 | ppbv  | 99       |
| 103) | Tetrachloroethene(sim)     | 9.687  | 166  | 139684   | 2.693 | ppbv  | 99       |
| 105) | Bromoform(sim)             | 11.841 | 173  | 195502   | 2.778 | ppbv  | 100      |
| 106) | 1,1,1,2-Tetrachloroeth...  | 11.124 | 131  | 110135   | 2.507 | ppbv  | 100      |
| 107) | m,p-Xylene(sim)            | 11.279 | 91   | 410070   | 4.860 | ppbv  | 99       |
| 108) | 1,1,2,2-Tetrachloroeth...  | 12.769 | 83   | 198426   | 2.457 | ppbv  | 99       |
| 111) | Benzyl chloride(sim)       | 14.025 | 91   | 165159   | 2.473 | ppbv  | 99       |
| 112) | 1,3-Dichlorobenzene(sim)   | 13.690 | 146  | 191236   | 2.599 | ppbv  | 99       |
| 113) | 1,4-Dichlorobenzene(sim)   | 13.784 | 146  | 165435   | 2.428 | ppbv  | 100      |
| 114) | sec-Butylbenzene(sim)      | 13.508 | 105  | 363633   | 2.519 | ppbv  | 99       |
| 115) | 4-Isopropyltoluene(sim)    | 13.674 | 119  | 277787   | 2.526 | ppbv  | 99       |
| 116) | 1,2-Dichlorobenzene(sim)   | 14.157 | 146  | 176771   | 2.559 | ppbv  | 99       |
| 117) | n-Butylbenzene(sim)        | 14.070 | 91   | 234664   | 2.632 | ppbv  | 100      |
| 118) | 1,2,4-Trichlorobenzene...  | 15.323 | 180  | 74304    | 1.919 | ppbv  | 98       |
| 119) | Hexachlorobutadiene(sim)   | 15.325 | 225  | 153690   | 2.640 | ppbv  | 99       |

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_13.D  
 Acq On : 3 Dec 2019 8:03 pm  
 Operator : Keith  
 Client ID : ICAL 2.5  
 Lab ID : 2.5 ppbV  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 04 08:51:53 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:51:38 2019  
 Response via : Initial Calibration

| Compound | R.T.  | QIon  | Response | Conc  | Units | Dev(Min) |
|----------|-------|-------|----------|-------|-------|----------|
| -----    | ----- | ----- | -----    | ----- | ----- | -----    |
| -----    | ----- | ----- | -----    | ----- | ----- | -----    |

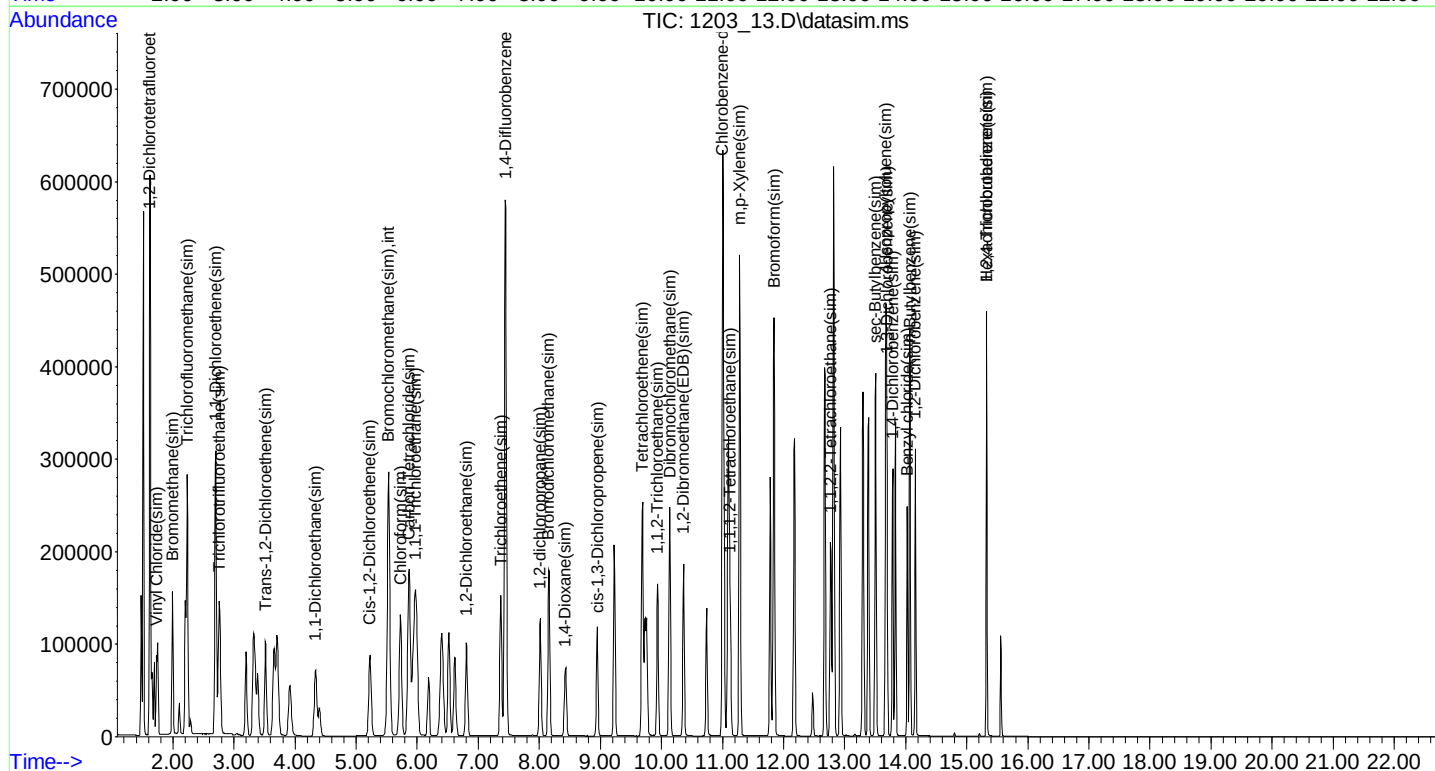
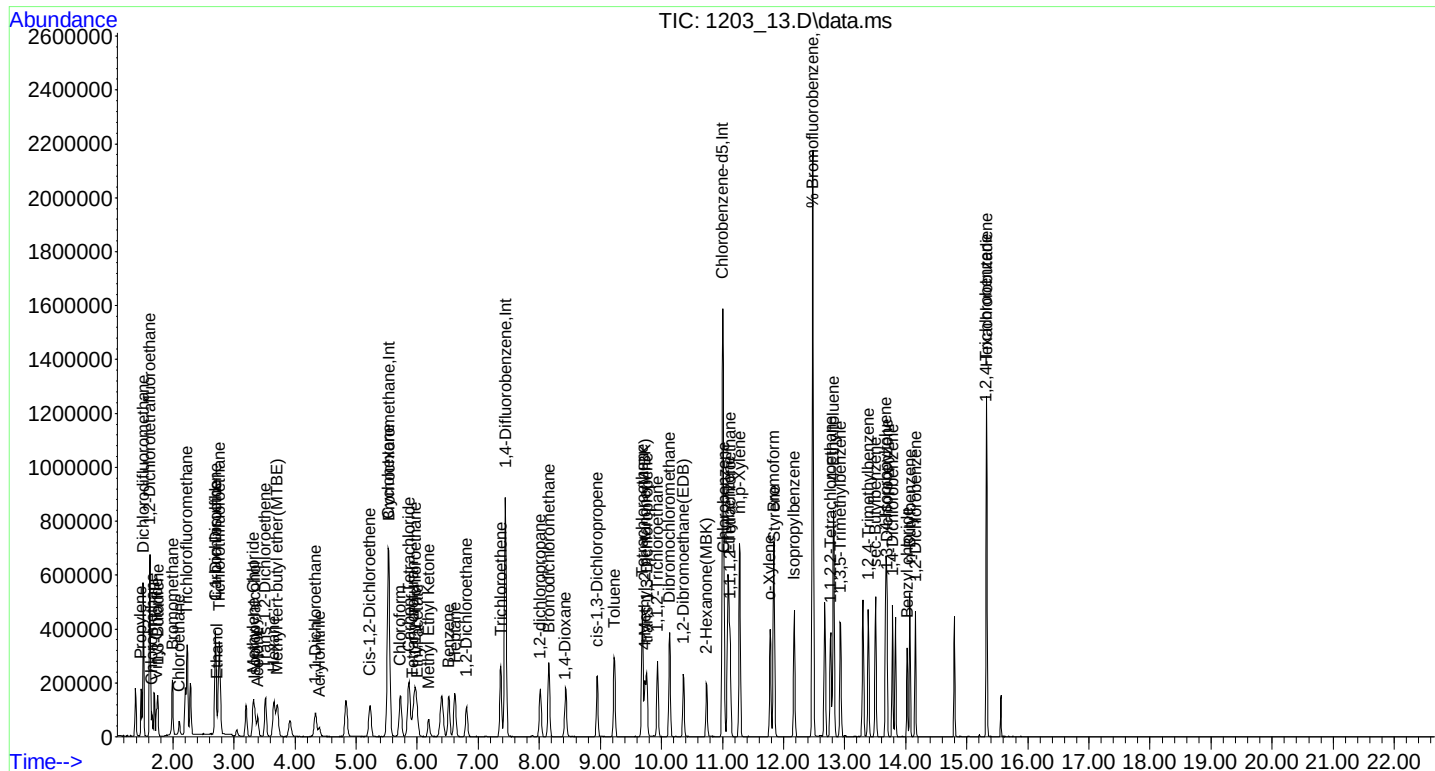
(#)out of range (m>manual integration reviewed by analyst (+)signals summed



# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_13.D  
 Acq On : 3 Dec 2019 8:03 pm  
 Operator : Keith  
 Client ID : ICAL 2.5  
 Lab ID : 2.5 ppbV  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 04 08:51:53 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Wed Dec 04 08:51:38 2019  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_14.D  
 Acq On : 3 Dec 2019 8:35 pm  
 Operator : Keith  
 Client ID : ICAL 5  
 Lab ID : 5.0 ppbv  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 04 08:51:19 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:51:09 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.535  | 130  | 278195   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.446  | 114  | 753611   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 11.004 | 82   | 441851   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.538  | 130  | 290194   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.449  | 114  | 834648   | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 11.007 | 82   | 478847   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

62) % Bromofluorobenzene 12.474 95 672553 9.798 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 98.00%

## Target Compounds

|                               |        |     |        |       |       | Qvalue |
|-------------------------------|--------|-----|--------|-------|-------|--------|
| 2) Propylene                  | 1.478  | 41  | 140475 | 5.446 | ppbv  | 99     |
| 3) Dichlorodifluoromethane    | 1.513  | 101 | 69096  | 5.881 | ppbv  | 99     |
| 4) Chloromethane              | 1.656  | 50  | 113348 | 5.121 | ppbv  | 99     |
| 5) 1,2-Dichlorotetrafluor...  | 1.622  | 135 | 334633 | 5.142 | ppbv  | 99     |
| 6) Vinyl Chloride             | 1.732  | 62  | 128806 | 4.908 | ppbv  | 99     |
| 7) 1,3-Butadiene              | 1.752  | 54  | 78645  | 5.039 | ppbv  | 96     |
| 8) Bromomethane               | 1.992  | 94  | 187561 | 4.858 | ppbv  | 99     |
| 9) Chloroethane               | 2.109  | 64  | 61831  | 4.634 | ppbv  | 98     |
| 10) Ethanol                   | 2.718  | 45  | 36706  | 5.318 | ppbv# | 94     |
| 12) Acetone                   | 3.388  | 43  | 251453 | 5.601 | ppbv  | 98     |
| 13) Trichlorofluoromethane    | 2.232  | 101 | 466862 | 5.186 | ppbv  | 99     |
| 14) Isopropylalcohol          | 3.347  | 45  | 206369 | 5.361 | ppbv  | 95     |
| 15) Acrylonitrile             | 4.398  | 53  | 65706  | 5.060 | ppbv  | 98     |
| 16) 1,1-Dichloroethene        | 2.697  | 61  | 232635 | 5.110 | ppbv  | 99     |
| 17) Methylene Chloride        | 3.320  | 49  | 148900 | 5.168 | ppbv  | 97     |
| 20) Carbon Disulfide          | 2.697  | 76  | 412523 | 5.270 | ppbv  | 100    |
| 21) Trichlorotrifluoroethane  | 2.759  | 101 | 322335 | 5.204 | ppbv  | 99     |
| 22) Trans-1,2-Dichloroethene  | 3.518  | 61  | 188329 | 5.134 | ppbv  | 97     |
| 23) 1,1-Dichloroethane        | 4.335  | 63  | 245544 | 5.099 | ppbv  | 100    |
| 24) Methyl tert-butyl ethe... | 3.710  | 73  | 333361 | 5.329 | ppbv# | 18     |
| 25) Methyl Ethyl Ketone       | 6.191  | 43  | 203741 | 5.737 | ppbv  | 99     |
| 26) Cis-1,2-Dichloroethene    | 5.233  | 61  | 210325 | 5.499 | ppbv  | 98     |
| 27) Hexane                    | 3.655  | 57  | 204879 | 5.831 | ppbv# | 78     |
| 28) Chloroform                | 5.730  | 83  | 349942 | 5.519 | ppbv  | 99     |
| 29) Ethyl acetate             | 6.004  | 43  | 230957 | 5.410 | ppbv  | 98     |
| 30) Tetrahydrofuran           | 5.925  | 42  | 93367  | 5.537 | ppbv  | 98     |
| 31) 1,2-Dichloroethane        | 6.809  | 62  | 253634 | 5.477 | ppbv  | 99     |
| 32) 1,1,1-Trichloroethane     | 5.968  | 97  | 336651 | 5.201 | ppbv  | 99     |
| 33) Benzene                   | 6.521  | 78  | 329986 | 5.185 | ppbv  | 99     |
| 34) Carbon Tetrachloride      | 5.867  | 117 | 407461 | 5.496 | ppbv  | 100    |
| 35) Cyclohexane               | 5.528  | 56  | 161918 | 5.429 | ppbv  | 97     |
| 37) 1,2-dichloropropane       | 8.014  | 63  | 139583 | 5.549 | ppbv  | 94     |
| 38) Bromodichloromethane      | 8.158  | 83  | 397304 | 5.746 | ppbv  | 99     |
| 39) Trichloroethene           | 7.370  | 130 | 205122 | 5.329 | ppbv  | 99     |
| 41) 1,4-Dioxane               | 8.417  | 88  | 86035  | 5.612 | ppbv  | 98     |
| 43) Heptane                   | 6.617  | 43  | 174166 | 5.715 | ppbv  | 97     |
| 44) cis-1,3-Dichloropropene   | 8.951  | 75  | 282518 | 5.995 | ppbv  | 99     |
| 45) 4-Methyl-2-pentanone(M... | 9.731  | 43  | 279093 | 6.155 | ppbv  | 96     |
| 46) trans-1,3-Dichloropropene | 9.759  | 75  | 231076 | 5.594 | ppbv  | 99     |
| 47) 1,1,2-Trichloroethane     | 9.940  | 97  | 178293 | 5.251 | ppbv  | 100    |
| 48) Toluene                   | 9.225  | 91  | 463812 | 5.858 | ppbv  | 99     |
| 49) Dibromochloromethane      | 10.135 | 129 | 416335 | 5.395 | ppbv  | 100    |
| 50) 2-Hexanone(MBK)           | 10.737 | 43  | 307809 | 6.155 | ppbv  | 96     |
| 51) 1,2-Dibromoethane(EDB)    | 10.359 | 107 | 325709 | 5.438 | ppbv  | 93     |

## Quantitation Report (RF) (QT Reviewed)

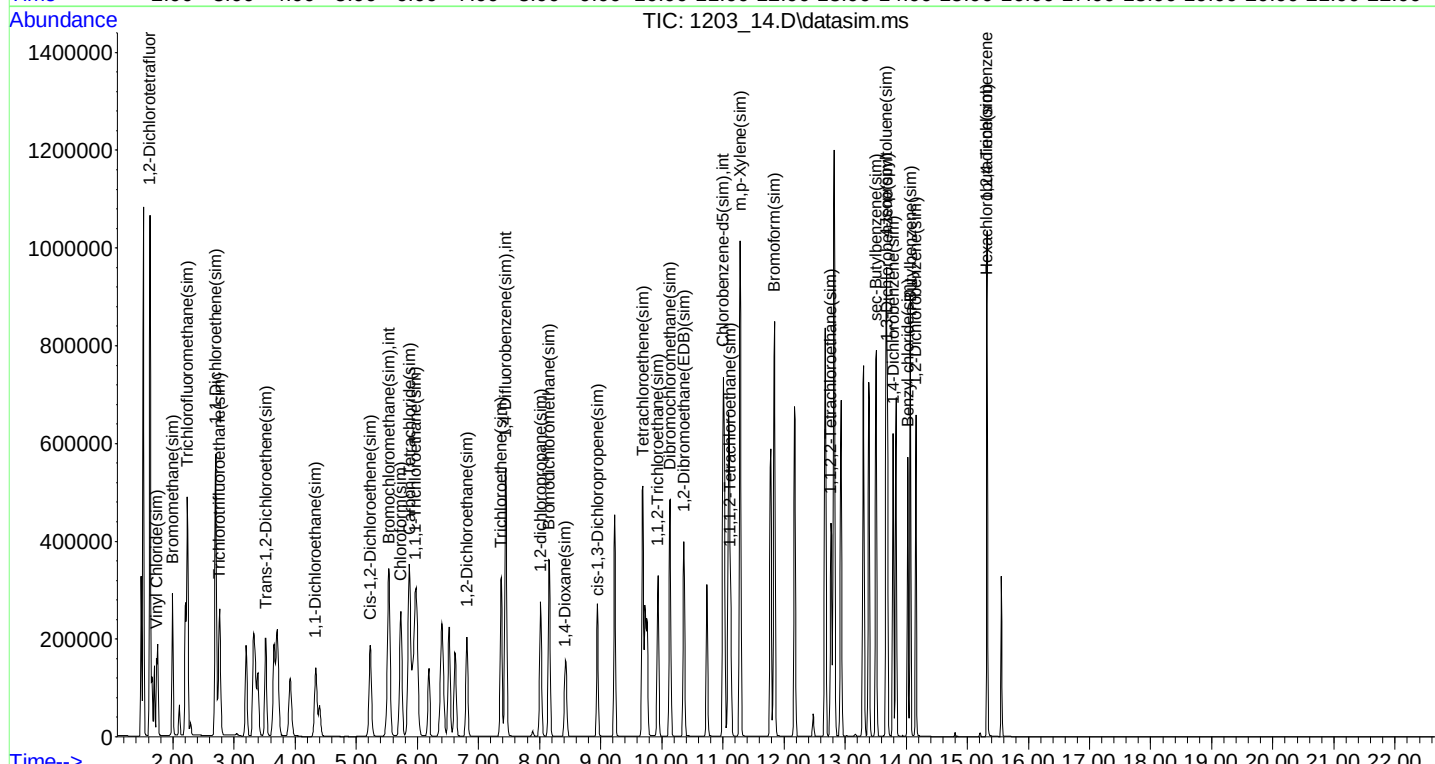
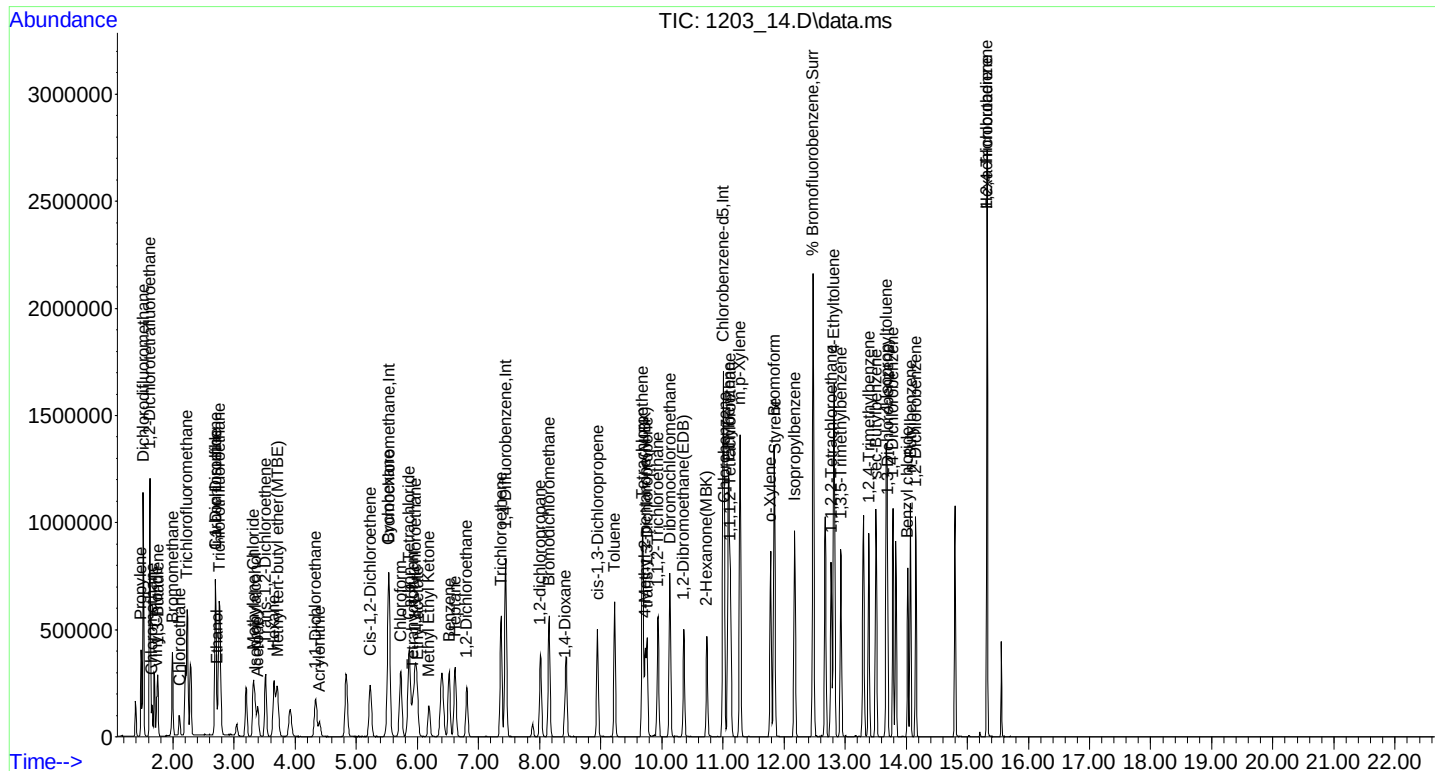
Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_14.D  
 Acq On : 3 Dec 2019 8:35 pm  
 Operator : Keith  
 Client ID : ICAL 5  
 Lab ID : 5.0 ppbv  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 04 08:51:19 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:51:09 2019  
 Response via : Initial Calibration

| Compound                        | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|--------|------|----------|--------|-------|----------|
| 52) Tetrachloroethene           | 9.687  | 166  | 292333   | 5.393  | ppbv  | 99       |
| 54) 1,1,1,2-Tetrachloroethane   | 11.121 | 131  | 205400   | 5.155  | ppbv  | 100      |
| 55) Chlorobenzene               | 11.025 | 112  | 354372   | 5.346  | ppbv  | 96       |
| 56) Ethylbenzene                | 11.100 | 91   | 548131   | 5.508  | ppbv  | 97       |
| 57) m,p-Xylene                  | 11.279 | 91   | 858363   | 11.720 | ppbv  | 96       |
| 58) Bromoform                   | 11.841 | 173  | 358753   | 5.104  | ppbv  | 99       |
| 59) Styrene                     | 11.848 | 104  | 307218   | 5.531  | ppbv  | 95       |
| 60) 1,1,2,2-Tetrachloroethane   | 12.772 | 83   | 381750   | 5.337  | ppbv  | 99       |
| 61) o-Xylene                    | 11.780 | 91   | 508004   | 5.891  | ppbv  | 97       |
| 64) Isopropylbenzene            | 12.175 | 105  | 642630   | 6.056  | ppbv  | 98       |
| 66) 4-Ethyltoluene              | 12.818 | 105  | 596900   | 5.628  | ppbv  | 98       |
| 67) 1,3,5-Trimethylbenzene      | 12.928 | 105  | 504144   | 5.575  | ppbv  | 98       |
| 68) 1,2,4-Trimethylbenzene      | 13.389 | 105  | 516404   | 5.912  | ppbv  | 98       |
| 70) Benzyl chloride             | 14.025 | 91   | 405794   | 6.110  | ppbv  | 100      |
| 71) 1,3-Dichlorobenzene         | 13.694 | 146  | 350863   | 5.345  | ppbv  | 99       |
| 72) 1,4-Dichlorobenzene         | 13.785 | 146  | 365440   | 5.651  | ppbv  | 99       |
| 73) sec-Butylbenzene            | 13.505 | 105  | 705246   | 5.879  | ppbv  | 99       |
| 74) 4-Isopropyltoluene          | 13.674 | 119  | 601492   | 6.181  | ppbv  | 98       |
| 75) 1,2-Dichlorobenzene         | 14.154 | 146  | 335449   | 5.634  | ppbv  | 100      |
| 76) n-Butylbenzene              | 14.070 | 91   | 490865   | 6.241  | ppbv  | 97       |
| 77) 1,2,4-Trichlorobenzene      | 15.320 | 180  | 180408   | 4.844  | ppbv  | 98       |
| 79) Hexachlorobutadiene         | 15.320 | 225  | 311747   | 6.008  | ppbv  | 100      |
| 81) 1,2-Dichlorotetrafluor...   | 1.622  | 135  | 334569   | 4.598  | ppbv  | 99       |
| 82) Vinyl Chloride(sim)         | 1.735  | 62   | 138942   | 4.570  | ppbv  | 99       |
| 84) Trichlorofluoromethane...   | 2.235  | 101  | 475901   | 4.208  | ppbv  | 97       |
| 85) 1,1,1-Trichloroethane(...)  | 5.968  | 97   | 336636   | 4.871  | ppbv# | 99       |
| 86) Carbon Tetrachloride(sim)   | 5.870  | 117  | 418430   | 5.336  | ppbv  | 98       |
| 87) 1,1-Dichloroethene(sim)     | 2.697  | 61   | 232635   | 4.519  | ppbv  | 99       |
| 89) Trans-1,2-Dichloroethe...   | 3.518  | 61   | 188329   | 4.876  | ppbv  | 97       |
| 90) 1,1-Dichloroethane(sim)     | 4.337  | 63   | 267256   | 4.924  | ppbv  | 99       |
| 91) Cis-1,2-Dichloroethene...   | 5.233  | 61   | 210325   | 5.848  | ppbv  | 98       |
| 92) Chloroform(sim)             | 5.726  | 83   | 370636   | 5.454  | ppbv  | 98       |
| 93) 1,2-Dichloroethane(sim)     | 6.809  | 62   | 253634   | 5.484  | ppbv  | 99       |
| 95) 1,2-dichloropropane(sim)    | 8.014  | 63   | 139583   | 5.844  | ppbv  | 94       |
| 96) Bromodichloromethane(sim)   | 8.154  | 83   | 420361   | 5.781  | ppbv  | 97       |
| 97) Trichloroethene(sim)        | 7.370  | 130  | 205122   | 5.613  | ppbv  | 99       |
| 99) cis-1,3-Dichloropropen...   | 8.951  | 75   | 282518   | 7.212  | ppbv  | 99       |
| 100) 1,1,2-Trichloroethane(...) | 9.936  | 97   | 192758   | 5.224  | ppbv  | 98       |
| 101) Dibromochloromethane(sim)  | 10.135 | 129  | 416117   | 5.470  | ppbv  | 100      |
| 102) 1,2-Dibromoethane(EDB)...  | 10.362 | 107  | 346648   | 5.500  | ppbv  | 96       |
| 103) Tetrachloroethene(sim)     | 9.687  | 166  | 292333   | 5.859  | ppbv  | 99       |
| 105) Bromoform(sim)             | 11.841 | 173  | 358453   | 5.144  | ppbv  | 99       |
| 106) 1,1,1,2-Tetrachloroeth...  | 11.124 | 131  | 219129   | 5.037  | ppbv  | 98       |
| 108) 1,1,2,2-Tetrachloroeth...  | 12.769 | 83   | 406783   | 5.087  | ppbv  | 97       |
| 112) 1,3-Dichlorobenzene(sim)   | 13.690 | 146  | 385322   | 5.289  | ppbv  | 97       |
| 113) 1,4-Dichlorobenzene(sim)   | 13.785 | 146  | 365440   | 5.969  | ppbv  | 99       |
| 118) 1,2,4-Trichlorobenzene...  | 15.323 | 180  | 189452   | 2.709  | ppbv  | 98       |
| 119) Hexachlorobutadiene(sim)   | 15.320 | 225  | 310382   | 5.384  | ppbv  | 99       |

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

```
Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
Data File : 1203_14.D  
Acq On : 3 Dec 2019 8:35 pm  
Operator : Keith  
Client ID : ICA1 5  
Lab ID : 5.0 ppbv  
ALS Vial : 11 Sample Multiplier: 1
```



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_15.D  
 Acq On : 3 Dec 2019 9:11 pm  
 Operator : Keith  
 Client ID : ICAL 25  
 Lab ID : 25 ppbV  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 04 08:50:46 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:50:35 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.542  | 130  | 249380   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.452  | 114  | 719311   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 11.004 | 82   | 447293   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.538  | 130  | 256266   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.448  | 114  | 792711   | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 11.007 | 82   | 475228   | 10.000 | ng    | 0.00     |

System Monitoring Compounds  
 62) % Bromofluorobenzene 12.480 95 724044 10.530 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 105.30%

| Target Compounds              | R.T.   | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|--------|------|----------|--------|-------|--------|
| 2) Propylene                  | 1.478  | 41   | 623446   | 26.964 | ppbv  | 99     |
| 3) Dichlorodifluoromethane    | 1.512  | 101  | 212176   | 20.147 | ppbv  | 99     |
| 4) Chloromethane              | 1.656  | 50   | 379328   | 19.119 | ppbv  | 97     |
| 5) 1,2-Dichlorotetrafluor...  | 1.622  | 135  | 1100978  | 18.872 | ppbv  | 99     |
| 6) Vinyl Chloride             | 1.732  | 62   | 485959   | 20.656 | ppbv  | 99     |
| 7) 1,3-Butadiene              | 1.752  | 54   | 300605   | 21.485 | ppbv  | 96     |
| 8) Bromomethane               | 1.992  | 94   | 735319   | 21.248 | ppbv  | 100    |
| 9) Chloroethane               | 2.108  | 64   | 255276   | 21.343 | ppbv  | 100    |
| 10) Ethanol                   | 2.725  | 45   | 127830   | 20.661 | ppbv  | 99     |
| 12) Acetone                   | 3.388  | 43   | 903076   | 22.440 | ppbv  | 96     |
| 13) Trichlorofluoromethane    | 2.239  | 101  | 1578310  | 19.557 | ppbv  | 99     |
| 14) Isopropylalcohol          | 3.347  | 45   | 778002   | 22.547 | ppbv  | 96     |
| 15) Acrylonitrile             | 4.402  | 53   | 277153   | 23.811 | ppbv  | 99     |
| 16) 1,1-Dichloroethene        | 2.697  | 61   | 884717   | 21.678 | ppbv  | 100    |
| 17) Methylene Chloride        | 3.320  | 49   | 586688   | 22.716 | ppbv  | 94     |
| 20) Carbon Disulfide          | 2.697  | 76   | 1559511  | 22.225 | ppbv  | 100    |
| 21) Trichlorotrifluoroethane  | 2.766  | 101  | 1180535  | 21.261 | ppbv  | 99     |
| 22) Trans-1,2-Dichloroethene  | 3.518  | 61   | 766760   | 23.319 | ppbv  | 96     |
| 23) 1,1-Dichloroethane        | 4.339  | 63   | 1021460  | 23.663 | ppbv  | 100    |
| 24) Methyl tert-butyl ethe... | 3.703  | 73   | 1282730  | 22.876 | ppbv  | 97     |
| 25) Methyl Ethyl Ketone       | 6.184  | 43   | 900457   | 28.283 | ppbv  | 98     |
| 26) Cis-1,2-Dichloroethene    | 5.232  | 61   | 901865   | 26.304 | ppbv  | 96     |
| 27) Hexane                    | 3.655  | 57   | 837167   | 26.577 | ppbv  | 94     |
| 28) Chloroform                | 5.730  | 83   | 1397774  | 24.590 | ppbv  | 99     |
| 29) Ethyl acetate             | 6.004  | 43   | 916042   | 23.935 | ppbv  | 97     |
| 30) Tetrahydrofuran           | 5.917  | 42   | 372927   | 24.669 | ppbv  | 96     |
| 31) 1,2-Dichloroethane        | 6.815  | 62   | 1050424  | 25.306 | ppbv  | 99     |
| 32) 1,1,1-Trichloroethane     | 5.968  | 97   | 1331524  | 22.948 | ppbv  | 99     |
| 33) Benzene                   | 6.521  | 78   | 1419578  | 24.882 | ppbv  | 99     |
| 34) Carbon Tetrachloride      | 5.867  | 117  | 1582979  | 23.821 | ppbv  | 100    |
| 35) Cyclohexane               | 5.528  | 56   | 701338   | 26.233 | ppbv  | 96     |
| 37) 1,2-dichloropropane       | 8.014  | 63   | 625819   | 26.067 | ppbv  | 93     |
| 38) Bromodichloromethane      | 8.158  | 83   | 1578382  | 23.917 | ppbv  | 100    |
| 39) Trichloroethene           | 7.370  | 130  | 923405   | 25.135 | ppbv  | 98     |
| 41) 1,4-Dioxane               | 8.409  | 88   | 396909   | 27.127 | ppbv  | 98     |
| 43) Heptane                   | 6.617  | 43   | 731972   | 25.165 | ppbv  | 97     |
| 44) cis-1,3-Dichloropropene   | 8.951  | 75   | 1296341  | 28.821 | ppbv  | 99     |
| 45) 4-Methyl-2-pentanone(M... | 9.730  | 43   | 1060986  | 24.515 | ppbv  | 97     |
| 46) trans-1,3-Dichloropropene | 9.767  | 75   | 959701   | 24.342 | ppbv  | 99     |
| 47) 1,1,2-Trichloroethane     | 9.940  | 97   | 778365   | 24.017 | ppbv  | 99     |
| 48) Toluene                   | 9.232  | 91   | 1960975  | 25.948 | ppbv  | 99     |
| 49) Dibromochloromethane      | 10.135 | 129  | 1816874  | 24.666 | ppbv  | 99     |
| 50) 2-Hexanone(MBK)           | 10.737 | 43   | 1343668  | 28.148 | ppbv  | 97     |
| 51) 1,2-Dibromoethane(EDB)    | 10.366 | 107  | 1476977  | 25.835 | ppbv  | 100    |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_15.D  
 Acq On : 3 Dec 2019 9:11 pm  
 Operator : Keith  
 Client ID : ICAL 25  
 Lab ID : 25 ppbV  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 04 08:50:46 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:50:35 2019  
 Response via : Initial Calibration

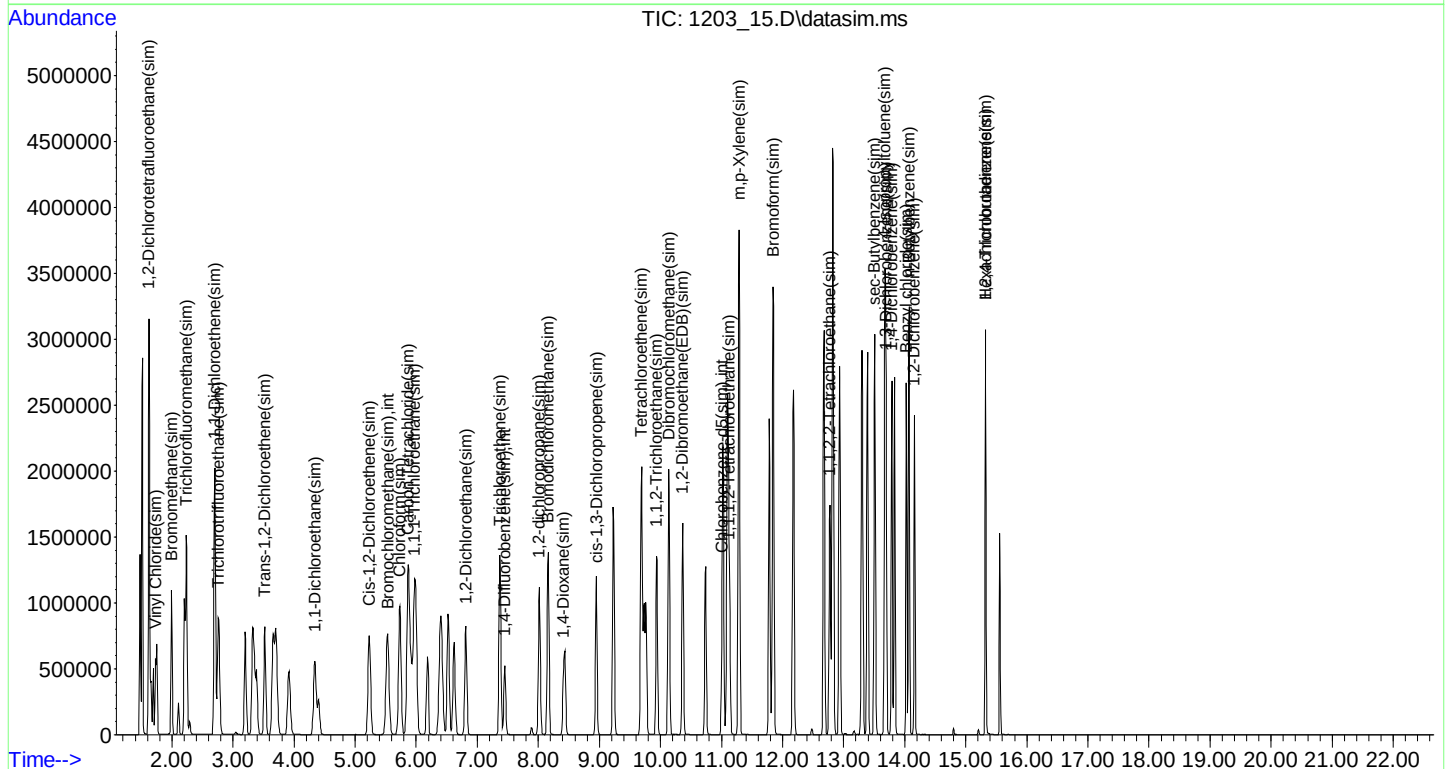
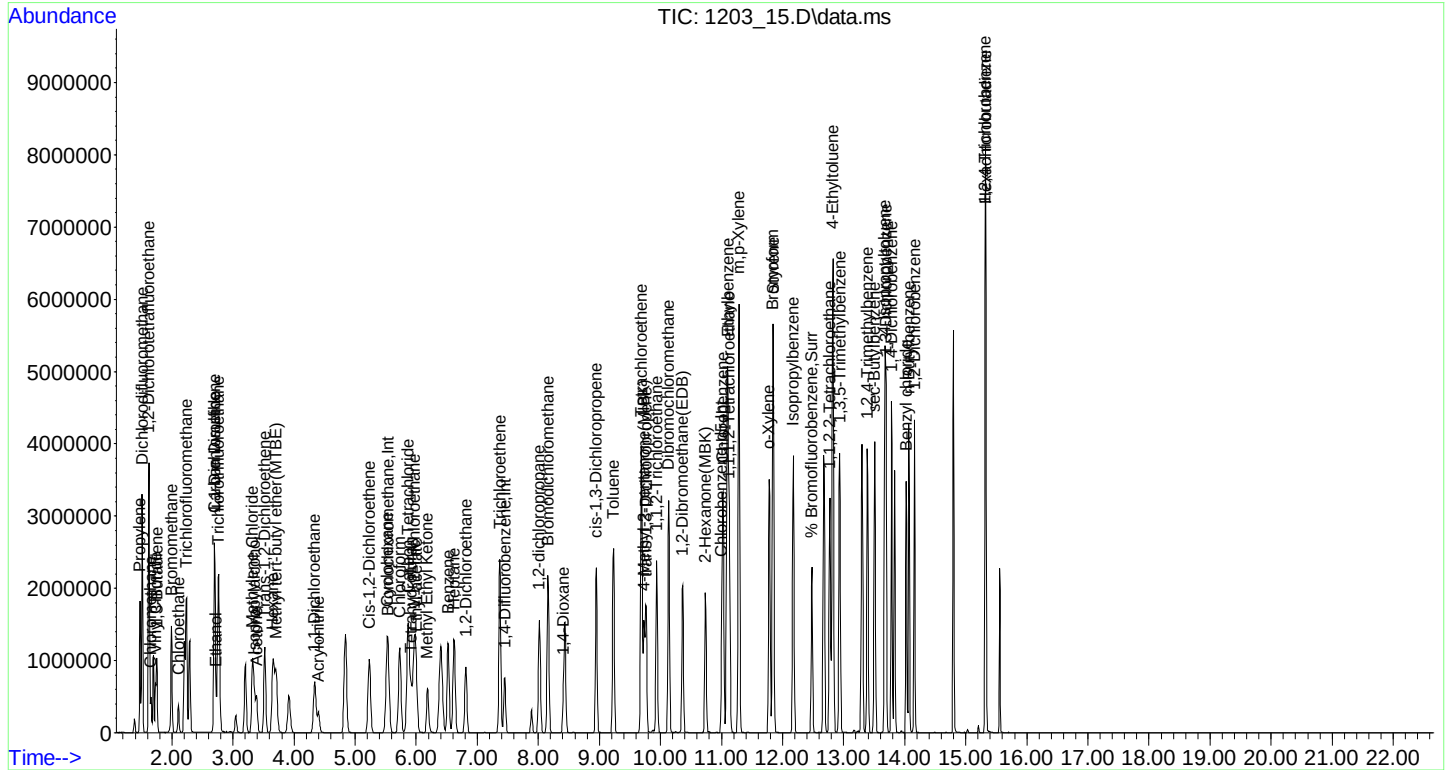
|      | Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|----------------------------|--------|------|----------|--------|-------|----------|
| 52)  | Tetrachloroethene          | 9.687  | 166  | 1290695  | 24.947 | ppbv  | 99       |
| 54)  | 1,1,1,2-Tetrachloroethane  | 11.128 | 131  | 896727   | 22.233 | ppbv  | 100      |
| 55)  | Chlorobenzene              | 11.025 | 112  | 1619643  | 24.137 | ppbv  | 99       |
| 56)  | Ethylbenzene               | 11.100 | 91   | 2339945  | 23.229 | ppbv  | 98       |
| 57)  | m,p-Xylene                 | 11.285 | 91   | 3625237  | 48.896 | ppbv  | 97       |
| 58)  | Bromoform                  | 11.841 | 173  | 1562887  | 21.964 | ppbv  | 99       |
| 59)  | Styrene                    | 11.848 | 104  | 1402343  | 24.940 | ppbv  | 96       |
| 60)  | 1,1,2,2-Tetrachloroethane  | 12.772 | 83   | 1633037  | 22.554 | ppbv  | 98       |
| 61)  | o-Xylene                   | 11.780 | 91   | 2294972  | 26.290 | ppbv  | 98       |
| 64)  | Isopropylbenzene           | 12.175 | 105  | 2816124  | 26.215 | ppbv  | 99       |
| 66)  | 4-Ethyltoluene             | 12.824 | 105  | 2571954  | 23.955 | ppbv  | 98       |
| 67)  | 1,3,5-Trimethylbenzene     | 12.934 | 105  | 2319962  | 25.343 | ppbv  | 98       |
| 68)  | 1,2,4-Trimethylbenzene     | 13.389 | 105  | 2238530  | 25.317 | ppbv  | 98       |
| 70)  | Benzyl chloride            | 14.024 | 91   | 1989730  | 31.022 | ppbv  | 99       |
| 71)  | 1,3-Dichlorobenzene        | 13.693 | 146  | 1505139  | 22.649 | ppbv  | 99       |
| 72)  | 1,4-Dichlorobenzene        | 13.784 | 146  | 1669654  | 25.505 | ppbv  | 99       |
| 73)  | sec-Butylbenzene           | 13.505 | 105  | 2965347  | 24.420 | ppbv  | 99       |
| 74)  | 4-Isopropyltoluene         | 13.674 | 119  | 2564293  | 26.030 | ppbv  | 99       |
| 75)  | 1,2-Dichlorobenzene        | 14.161 | 146  | 1476184  | 24.491 | ppbv  | 99       |
| 76)  | n-Butylbenzene             | 14.070 | 91   | 1910033  | 23.990 | ppbv  | 100      |
| 77)  | 1,2,4-Trichlorobenzene     | 15.320 | 180  | 760019   | 24.527 | ppbv  | 100      |
| 79)  | Hexachlorobutadiene        | 15.325 | 225  | 980380   | 23.653 | ppbv  | 100      |
| 81)  | 1,2-Dichlorotetrafluor...  | 1.622  | 135  | 1099019  | 17.104 | ppbv  | 99       |
| 82)  | Vinyl Chloride(sim)        | 1.734  | 62   | 515190   | 19.189 | ppbv  | 99       |
| 84)  | Trichlorofluoromethane...  | 2.235  | 101  | 1521508  | 15.234 | ppbv  | 98       |
| 85)  | 1,1,1-Trichloroethane(...) | 5.968  | 97   | 1331524  | 21.819 | ppbv# | 99       |
| 86)  | Carbon Tetrachloride(sim)  | 5.870  | 117  | 1572809  | 22.714 | ppbv  | 99       |
| 87)  | 1,1-Dichloroethene(sim)    | 2.697  | 61   | 884717   | 19.460 | ppbv  | 100      |
| 89)  | Trans-1,2-Dichloroethe...  | 3.518  | 61   | 766760   | 22.481 | ppbv  | 96       |
| 90)  | 1,1-Dichloroethane(sim)    | 4.342  | 63   | 1092501  | 22.793 | ppbv  | 99       |
| 91)  | Cis-1,2-Dichloroethene...  | 5.232  | 61   | 902005   | 28.401 | ppbv  | 96       |
| 92)  | Chloroform(sim)            | 5.733  | 83   | 1448452  | 24.135 | ppbv  | 98       |
| 93)  | 1,2-Dichloroethane(sim)    | 6.815  | 62   | 1051033  | 25.732 | ppbv  | 99       |
| 95)  | 1,2-dichloropropane(sim)   | 8.014  | 63   | 625819   | 27.590 | ppbv  | 93       |
| 96)  | Bromodichloromethane(sim)  | 8.161  | 83   | 1600952  | 23.184 | ppbv  | 98       |
| 97)  | Trichloroethene(sim)       | 7.370  | 130  | 922088   | 26.565 | ppbv  | 99       |
| 99)  | cis-1,3-Dichloropropen...  | 8.951  | 75   | 1296341  | 34.846 | ppbv  | 99       |
| 100) | 1,1,2-Trichloroethane(...) | 9.935  | 97   | 833897   | 23.795 | ppbv  | 98       |
| 101) | Dibromochloromethane(sim)  | 10.135 | 129  | 1816752  | 25.147 | ppbv  | 99       |
| 102) | 1,2-Dibromoethane(EDB)...  | 10.361 | 107  | 1476604  | 24.667 | ppbv  | 97       |
| 103) | Tetrachloroethene(sim)     | 9.687  | 166  | 1290073  | 27.226 | ppbv  | 99       |
| 105) | Bromoform(sim)             | 11.841 | 173  | 1562292  | 22.592 | ppbv  | 99       |
| 106) | 1,1,1,2-Tetrachloroeth...  | 11.131 | 131  | 919846   | 21.306 | ppbv  | 99       |
| 108) | 1,1,2,2-Tetrachloroeth...  | 12.775 | 83   | 1662275  | 20.947 | ppbv  | 98       |
| 112) | 1,3-Dichlorobenzene(sim)   | 13.696 | 146  | 1547598  | 21.405 | ppbv  | 99       |
| 113) | 1,4-Dichlorobenzene(sim)   | 13.784 | 146  | 1670525  | 45.012 | ppbv  | 99       |
| 118) | 1,2,4-Trichlorobenzene...  | 15.323 | 180  | 753933   | 5.933  | ppbv  | 100      |
| 119) | Hexachlorobutadiene(sim)   | 15.325 | 225  | 979713   | 17.124 | ppbv  | 100      |

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

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Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
Data File : 1203_15.D  
Acq On : 3 Dec 2019 9:11 pm  
Operator : Keith  
Client ID : ICAL 25  
Lab ID : 25 ppbV  
ALS Vial : 13 Sample Multiplier: 1
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Quant Time: Dec 04 08:50:46 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
QLast Update : Wed Dec 04 08:50:35 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_16.D  
 Acq On : 3 Dec 2019 9:50 pm  
 Operator : Keith  
 Client ID : ICAL 40  
 Lab ID : 40  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 04 08:50:19 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:50:07 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.547  | 130  | 273999   | 10.000 | ng    | 0.01     |
| 36) 1,4-Difluorobenzene      | 7.450  | 114  | 810564   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 11.008 | 82   | 480343   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.543  | 130  | 278597   | 10.000 | ng    | # 0.01   |
| 94) 1,4-Difluorobenzene(sim) | 7.453  | 114  | 886161   | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 11.004 | 82   | 499152   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

62) % Bromofluorobenzene 12.477 95 820357 11.537 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 115.40%

## Target Compounds

|                               |        |     |         |        |       | Qvalue |
|-------------------------------|--------|-----|---------|--------|-------|--------|
| 2) Propylene                  | 1.478  | 41  | 1006739 | 39.629 | ppbv  | 99     |
| 3) Dichlorodifluoromethane    | 1.513  | 101 | 286623  | 24.771 | ppbv  | 99     |
| 4) Chloromethane              | 1.656  | 50  | 598593  | 27.460 | ppbv  | 98     |
| 5) 1,2-Dichlorotetrafluor...  | 1.629  | 135 | 1736977 | 27.098 | ppbv  | 99     |
| 6) Vinyl Chloride             | 1.732  | 62  | 807144  | 31.226 | ppbv  | 99     |
| 7) 1,3-Butadiene              | 1.759  | 54  | 491376  | 31.964 | ppbv  | 99     |
| 8) Bromomethane               | 1.992  | 94  | 1175922 | 30.927 | ppbv  | 100    |
| 9) Chloroethane               | 2.109  | 64  | 416927  | 31.727 | ppbv  | 99     |
| 10) Ethanol                   | 2.725  | 45  | 184851  | 27.192 | ppbv  | 98     |
| 12) Acetone                   | 3.388  | 43  | 1455144 | 32.909 | ppbv  | 97     |
| 13) Trichlorofluoromethane    | 2.239  | 101 | 2366601 | 26.690 | ppbv  | 99     |
| 14) Isopropylalcohol          | 3.354  | 45  | 1205884 | 31.808 | ppbv  | 92     |
| 15) Acrylonitrile             | 4.405  | 53  | 485176  | 37.938 | ppbv  | 99     |
| 16) 1,1-Dichloroethene        | 2.697  | 61  | 1388196 | 30.959 | ppbv  | 99     |
| 17) Methylene Chloride        | 3.320  | 49  | 975487  | 34.376 | ppbv  | 97     |
| 20) Carbon Disulfide          | 2.704  | 76  | 2428254 | 31.496 | ppbv  | 99     |
| 21) Trichlorotrifluoroethane  | 2.766  | 101 | 1866193 | 30.590 | ppbv  | 99     |
| 22) Trans-1,2-Dichloroethene  | 3.525  | 61  | 1320150 | 36.541 | ppbv  | 97     |
| 23) 1,1-Dichloroethane        | 4.341  | 63  | 1743253 | 36.755 | ppbv  | 100    |
| 24) Methyl tert-butyl ethe... | 3.710  | 73  | 2218900 | 36.016 | ppbv  | 100    |
| 25) Methyl Ethyl Ketone       | 6.189  | 43  | 1447253 | 41.374 | ppbv  | 98     |
| 26) Cis-1,2-Dichloroethene    | 5.237  | 61  | 1518784 | 40.318 | ppbv  | 97     |
| 27) Hexane                    | 3.662  | 57  | 1465432 | 42.343 | ppbv# | 91     |
| 28) Chloroform                | 5.734  | 83  | 2334006 | 37.370 | ppbv  | 100    |
| 29) Ethyl acetate             | 6.008  | 43  | 1552985 | 36.932 | ppbv  | 98     |
| 30) Tetrahydrofuran           | 5.922  | 42  | 636335  | 38.312 | ppbv  | 97     |
| 31) 1,2-Dichloroethane        | 6.813  | 62  | 1702064 | 37.321 | ppbv  | 99     |
| 32) 1,1,1-Trichloroethane     | 5.972  | 97  | 2221533 | 34.847 | ppbv  | 99     |
| 33) Benzene                   | 6.525  | 78  | 2465593 | 39.333 | ppbv  | 99     |
| 34) Carbon Tetrachloride      | 5.871  | 117 | 2600092 | 35.611 | ppbv  | 99     |
| 35) Cyclohexane               | 5.533  | 56  | 1206687 | 41.080 | ppbv  | 98     |
| 37) 1,2-dichloropropane       | 8.018  | 63  | 1075268 | 39.745 | ppbv  | 97     |
| 38) Bromodichloromethane      | 8.162  | 83  | 2593005 | 34.868 | ppbv  | 99     |
| 39) Trichloroethene           | 7.374  | 130 | 1598652 | 38.616 | ppbv  | 99     |
| 41) 1,4-Dioxane               | 8.414  | 88  | 651472  | 39.512 | ppbv  | 99     |
| 43) Heptane                   | 6.621  | 43  | 1237453 | 37.753 | ppbv  | 98     |
| 44) cis-1,3-Dichloropropene   | 8.948  | 75  | 2164494 | 42.705 | ppbv  | 98     |
| 45) 4-Methyl-2-pentanone(M... | 9.735  | 43  | 1705340 | 34.967 | ppbv  | 96     |
| 46) trans-1,3-Dichloropropene | 9.764  | 75  | 1611788 | 36.279 | ppbv  | 99     |
| 47) 1,1,2-Trichloroethane     | 9.937  | 97  | 1341465 | 36.732 | ppbv  | 99     |
| 48) Toluene                   | 9.229  | 91  | 3306292 | 38.825 | ppbv  | 98     |
| 49) Dibromochloromethane      | 10.139 | 129 | 2993432 | 36.063 | ppbv  | 99     |
| 50) 2-Hexanone(MBK)           | 10.741 | 43  | 2156656 | 40.093 | ppbv  | 97     |
| 51) 1,2-Dibromoethane(EDB)    | 10.363 | 107 | 2530739 | 39.284 | ppbv  | 100    |



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_16.D  
 Acq On : 3 Dec 2019 9:50 pm  
 Operator : Keith  
 Client ID : ICAL 40  
 Lab ID : 40  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 04 08:50:19 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:50:07 2019  
 Response via : Initial Calibration

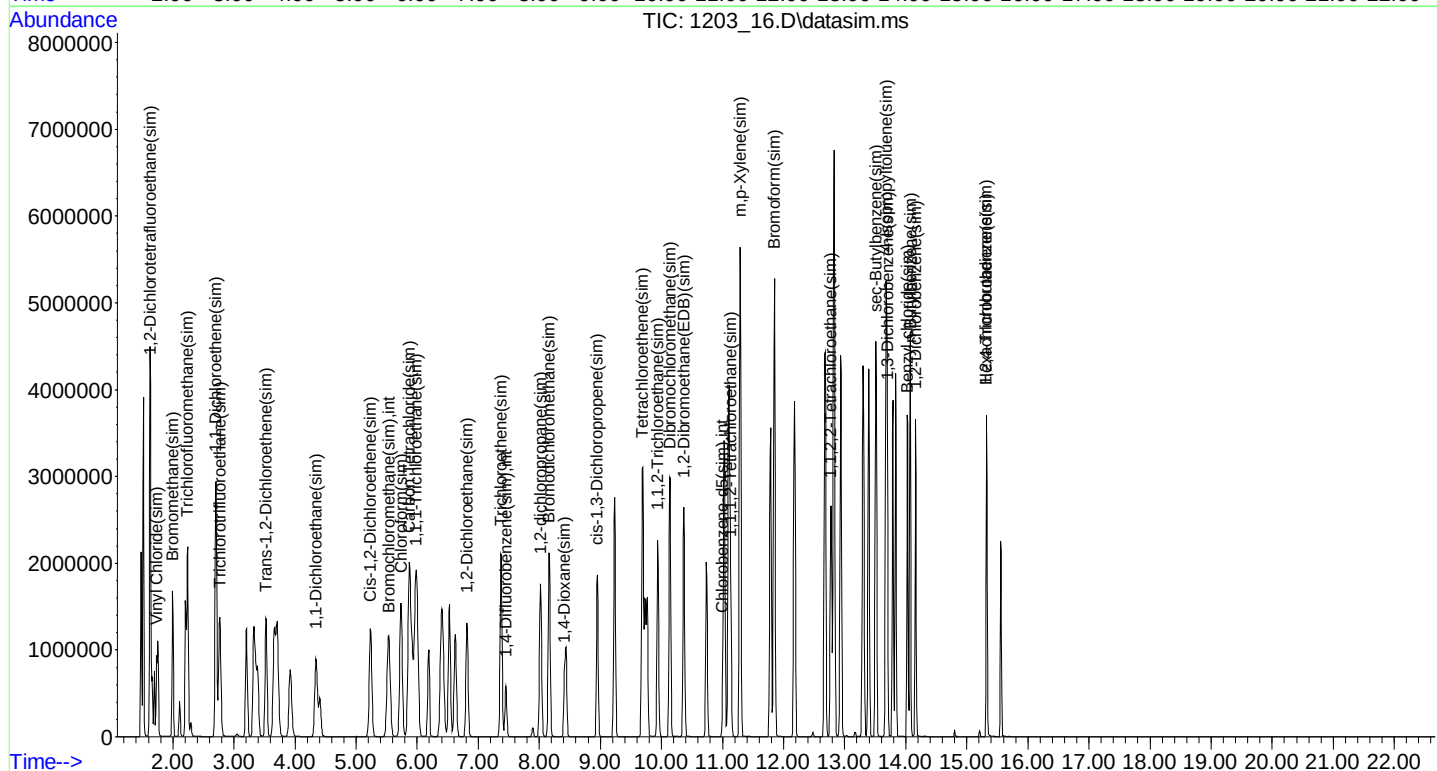
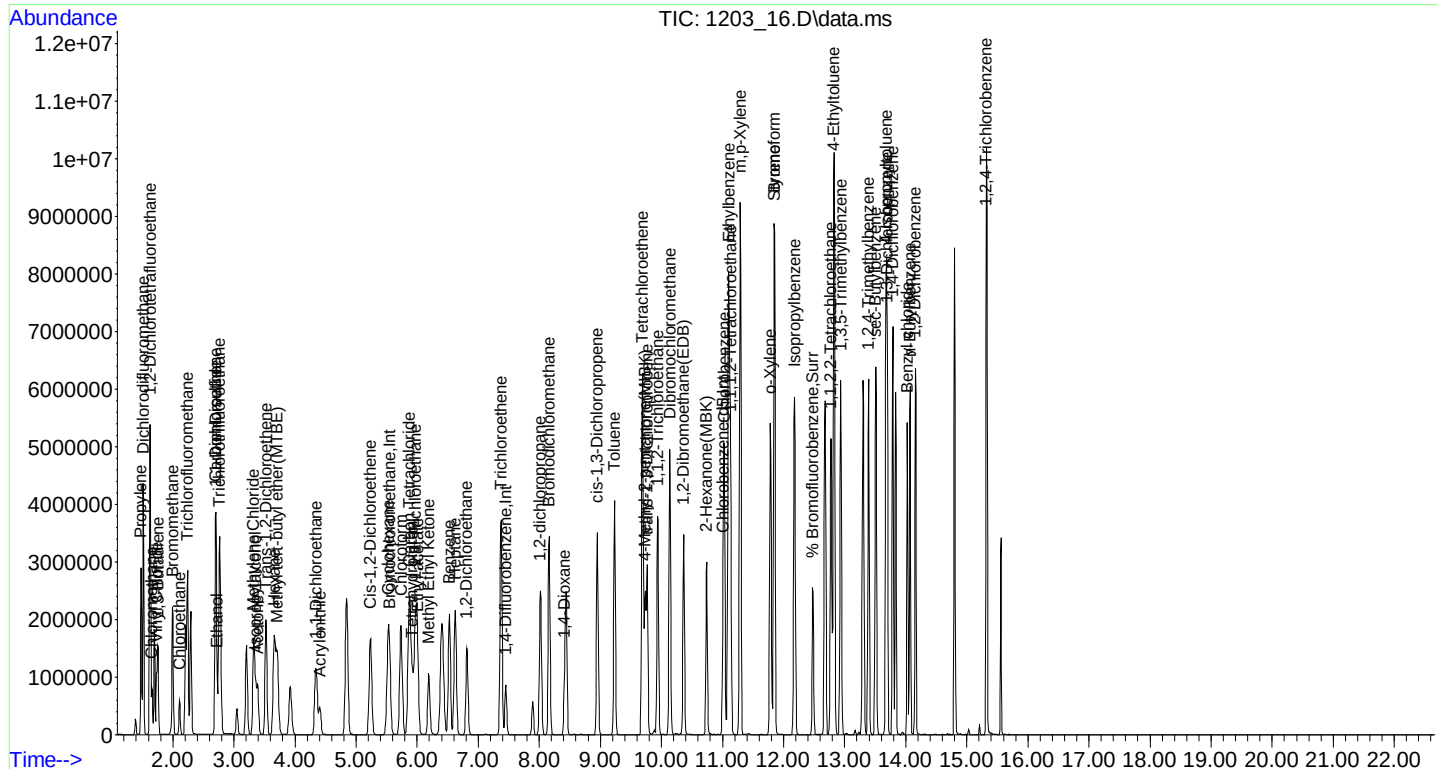
|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|-------|----------|
| 52)  | Tetrachloroethene         | 9.691  | 166  | 2187700  | 37.524 | ppbv  | 99       |
| 54)  | 1,1,1,2-Tetrachloroethane | 11.132 | 131  | 1523827  | 35.182 | ppbv  | 99       |
| 55)  | Chlorobenzene             | 11.029 | 112  | 2766205  | 38.387 | ppbv  | 98       |
| 56)  | Ethylbenzene              | 11.104 | 91   | 3807955  | 35.201 | ppbv  | 97       |
| 57)  | m,p-Xylene                | 11.290 | 91   | 5914307  | 74.281 | ppbv  | 95       |
| 58)  | Bromoform                 | 11.845 | 173  | 2529522  | 33.103 | ppbv  | 99       |
| 59)  | Styrene                   | 11.852 | 104  | 2391113  | 39.599 | ppbv  | 96       |
| 60)  | 1,1,2,2-Tetrachloroethane | 12.776 | 83   | 2689500  | 34.588 | ppbv  | 97       |
| 61)  | o-Xylene                  | 11.784 | 91   | 3678293  | 39.238 | ppbv  | 97       |
| 64)  | Isopropylbenzene          | 12.179 | 105  | 4605421  | 39.921 | ppbv  | 98       |
| 66)  | 4-Ethyltoluene            | 12.821 | 105  | 4148840  | 35.984 | ppbv  | 97       |
| 67)  | 1,3,5-Trimethylbenzene    | 12.938 | 105  | 3826697  | 38.926 | ppbv  | 97       |
| 68)  | 1,2,4-Trimethylbenzene    | 13.392 | 105  | 3560834  | 37.500 | ppbv  | 98       |
| 70)  | Benzyl chloride           | 14.028 | 91   | 3126755  | 47.533 | ppbv  | 98       |
| 71)  | 1,3-Dichlorobenzene       | 13.697 | 146  | 2383043  | 33.393 | ppbv  | 99       |
| 72)  | 1,4-Dichlorobenzene       | 13.788 | 146  | 2690601  | 38.273 | ppbv  | 99       |
| 73)  | sec-Butylbenzene          | 13.509 | 105  | 4744883  | 36.386 | ppbv  | 98       |
| 74)  | 4-Isopropyltoluene        | 13.678 | 119  | 3994582  | 37.758 | ppbv  | 98       |
| 75)  | 1,2-Dichlorobenzene       | 14.158 | 146  | 2234620  | 34.524 | ppbv  | 99       |
| 76)  | n-Butylbenzene            | 14.074 | 91   | 2943522  | 34.426 | ppbv  | 97       |
| 77)  | 1,2,4-Trichlorobenzene    | 15.319 | 180  | 1091984  | 23.359 | ppbv  | 99       |
| 81)  | 1,2-Dichlorotetrafluor... | 1.629  | 135  | 1731850  | 24.792 | ppbv  | 100      |
| 82)  | Vinyl Chloride(sim)       | 1.735  | 62   | 850881   | 29.152 | ppbv  | 98       |
| 84)  | Trichlorofluoromethane... | 2.242  | 101  | 2269142  | 20.898 | ppbv  | 96       |
| 85)  | 1,1,1-Trichloroethane(... | 5.972  | 97   | 2223519  | 33.516 | ppbv# | 99       |
| 86)  | Carbon Tetrachloride(sim) | 5.874  | 117  | 2509026  | 33.330 | ppbv  | 97       |
| 87)  | 1,1-Dichloroethene(sim)   | 2.697  | 61   | 1388196  | 28.086 | ppbv  | 99       |
| 89)  | Trans-1,2-Dichloroethe... | 3.525  | 61   | 1320444  | 35.611 | ppbv  | 97       |
| 90)  | 1,1-Dichloroethane(sim)   | 4.344  | 63   | 1826800  | 35.058 | ppbv  | 99       |
| 91)  | Cis-1,2-Dichloroethene... | 5.237  | 61   | 1520260  | 44.031 | ppbv  | 97       |
| 92)  | Chloroform(sim)           | 5.737  | 83   | 2370084  | 36.326 | ppbv  | 98       |
| 93)  | 1,2-Dichloroethane(sim)   | 6.813  | 62   | 1702241  | 38.335 | ppbv  | 99       |
| 95)  | 1,2-dichloropropane(sim)  | 8.018  | 63   | 1075145  | 42.401 | ppbv  | 97       |
| 96)  | Bromodichloromethane(sim) | 8.158  | 83   | 2530150  | 32.776 | ppbv  | 96       |
| 97)  | Trichloroethene(sim)      | 7.374  | 130  | 1598217  | 41.188 | ppbv  | 99       |
| 99)  | cis-1,3-Dichloropropen... | 8.948  | 75   | 2165230  | 52.064 | ppbv  | 98       |
| 100) | 1,1,2-Trichloroethane(... | 9.940  | 97   | 1394482  | 35.595 | ppbv  | 98       |
| 101) | Dibromochloromethane(sim) | 10.139 | 129  | 2993688  | 37.068 | ppbv  | 99       |
| 102) | 1,2-Dibromoethane(EDB)... | 10.366 | 107  | 2410900  | 36.028 | ppbv  | 95       |
| 103) | Tetrachloroethene(sim)    | 9.691  | 166  | 2187930  | 41.305 | ppbv  | 99       |
| 105) | Bromoform(sim)            | 11.845 | 173  | 2529617  | 34.827 | ppbv  | 99       |
| 106) | 1,1,1,2-Tetrachloroeth... | 11.135 | 131  | 1501770  | 33.118 | ppbv  | 97       |
| 108) | 1,1,2,2-Tetrachloroeth... | 12.772 | 83   | 2647275  | 31.760 | ppbv  | 95       |
| 112) | 1,3-Dichlorobenzene(sim)  | 13.700 | 146  | 2358046  | 31.051 | ppbv  | 97       |
| 118) | 1,2,4-Trichlorobenzene... | 15.322 | 180  | 1055434  | 6.932  | ppbv  | 99       |
| 119) | Hexachlorobutadiene(sim)  | 15.324 | 225  | 1304269  | 21.704 | ppbv  | 99       |

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_16.D  
 Acq On : 3 Dec 2019 9:50 pm  
 Operator : Keith  
 Client ID : ICAL 40  
 Lab ID : 40  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 04 08:50:19 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Wed Dec 04 08:50:07 2019  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_18.D  
 Acq On : 3 Dec 2019 10:53 pm  
 Operator : Keith  
 Client ID : ICAL 1  
 Lab ID : 1ppb  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 04 09:00:05 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.532  | 130  | 477823   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.443  | 114  | 1272845  | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 11.001 | 82   | 678018   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.528  | 130  | 482299   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.445  | 114  | 1376628  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 11.004 | 82   | 728577   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

62) % Bromofluorobenzene 12.477 95 997504 9.754 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 97.50%

## Target Compounds

|                               |        |     |        |       |       | Qvalue |
|-------------------------------|--------|-----|--------|-------|-------|--------|
| 2) Propylene                  | 1.478  | 41  | 40558  | 0.915 | ppbv# | 70     |
| 3) Dichlorodifluoromethane    | 1.512  | 101 | 20863  | 1.034 | ppbv# | 70     |
| 4) Chloromethane              | 1.656  | 50  | 44412  | 1.168 | ppbv  | 91     |
| 5) 1,2-Dichlorotetrafluor...  | 1.622  | 135 | 134648 | 1.205 | ppbv  | 88     |
| 6) Vinyl Chloride             | 1.732  | 62  | 52714  | 1.169 | ppbv  | 96     |
| 7) 1,3-Butadiene              | 1.752  | 54  | 31258  | 1.166 | ppbv# | 40     |
| 8) Bromomethane               | 1.992  | 94  | 61599  | 0.929 | ppbv# | 65     |
| 9) Chloroethane               | 2.102  | 64  | 20740  | 0.905 | ppbv# | 59     |
| 10) Ethanol                   | 2.725  | 45  | 11846  | 0.999 | ppbv# | 45     |
| 12) Acetone                   | 3.395  | 43  | 80758  | 1.047 | ppbv  | 94     |
| 13) Trichlorofluoromethane    | 2.232  | 101 | 139435 | 0.902 | ppbv# | 89     |
| 14) Isopropylalcohol          | 3.354  | 45  | 69731  | 1.055 | ppbv# | 1      |
| 15) Acrylonitrile             | 4.404  | 53  | 21943  | 0.984 | ppbv# | 84     |
| 16) 1,1-Dichloroethene        | 2.697  | 61  | 69204  | 0.885 | ppbv# | 79     |
| 17) Methylene Chloride        | 3.313  | 49  | 48736  | 0.985 | ppbv  | 93     |
| 20) Carbon Disulfide          | 2.697  | 76  | 128002 | 0.952 | ppbv  | 98     |
| 21) Trichlorotrifluoroethane  | 2.759  | 101 | 100133 | 0.941 | ppbv# | 87     |
| 22) Trans-1,2-Dichloroethene  | 3.511  | 61  | 63074  | 1.001 | ppbv  | 94     |
| 23) 1,1-Dichloroethane        | 4.332  | 63  | 80246  | 0.970 | ppbv  | 100    |
| 24) Methyl tert-butyl ethe... | 3.716  | 73  | 113669 | 1.058 | ppbv# | 89     |
| 25) Methyl Ethyl Ketone       | 6.196  | 43  | 53689  | 0.880 | ppbv# | 58     |
| 26) Cis-1,2-Dichloroethene    | 5.222  | 61  | 63383  | 0.965 | ppbv# | 57     |
| 27) Hexane                    | 3.648  | 57  | 52781  | 0.875 | ppbv  | 87     |
| 28) Chloroform                | 5.720  | 83  | 101680 | 0.934 | ppbv# | 80     |
| 29) Ethyl acetate             | 6.001  | 43  | 73064  | 0.996 | ppbv  | 100    |
| 30) Tetrahydrofuran           | 5.936  | 42  | 29123  | 1.005 | ppbv# | 29     |
| 31) 1,2-Dichloroethane        | 6.806  | 62  | 71221  | 0.895 | ppbv# | 84     |
| 32) 1,1,1-Trichloroethane     | 5.965  | 97  | 107800 | 0.970 | ppbv# | 77     |
| 33) Benzene                   | 6.518  | 78  | 115324 | 1.055 | ppbv# | 80     |
| 34) Carbon Tetrachloride      | 5.864  | 117 | 117817 | 0.925 | ppbv  | 95     |
| 35) Cyclohexane               | 5.518  | 56  | 49595  | 0.968 | ppbv# | 21     |
| 37) 1,2-dichloropropane       | 8.018  | 63  | 42701  | 1.005 | ppbv# | 56     |
| 38) Bromodichloromethane      | 8.155  | 83  | 113927 | 0.976 | ppbv  | 84     |
| 39) Trichloroethene           | 7.367  | 130 | 67134  | 1.033 | ppbv  | 91     |
| 41) 1,4-Dioxane               | 8.421  | 88  | 26669  | 1.030 | ppbv# | 66     |
| 43) Heptane                   | 6.614  | 43  | 53800  | 1.045 | ppbv# | 19     |
| 44) cis-1,3-Dichloropropene   | 8.948  | 75  | 80838  | 1.016 | ppbv  | 95     |
| 45) 4-Methyl-2-pentanone(M... | 9.734  | 43  | 80333  | 1.049 | ppbv# | 69     |
| 46) trans-1,3-Dichloropropene | 9.756  | 75  | 73088  | 1.048 | ppbv# | 87     |
| 47) 1,1,2-Trichloroethane     | 9.937  | 97  | 59692  | 1.041 | ppbv  | 90     |
| 48) Toluene                   | 9.229  | 91  | 144115 | 1.078 | ppbv  | 94     |
| 49) Dibromochloromethane      | 10.131 | 129 | 127382 | 0.977 | ppbv# | 92     |
| 50) 2-Hexanone(MBK)           | 10.741 | 43  | 80419  | 0.952 | ppbv# | 89     |
| 51) 1,2-Dibromoethane(EDB)    | 10.363 | 107 | 101837 | 1.007 | ppbv  | 95     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_18.D  
 Acq On : 3 Dec 2019 10:53 pm  
 Operator : Keith  
 Client ID : ICAL 1  
 Lab ID : 1ppb  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 04 09:00:05 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

| Compound                        | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------------|--------|------|----------|-------|-------|----------|
| 52) Tetrachloroethene           | 9.684  | 166  | 96347    | 1.052 | ppbv  | 92       |
| 54) 1,1,1,2-Tetrachloroethane   | 11.125 | 131  | 60776    | 0.994 | ppbv# | 88       |
| 55) Chlorobenzene               | 11.022 | 112  | 101840   | 1.001 | ppbv# | 1        |
| 56) Ethylbenzene                | 11.097 | 91   | 161576   | 1.058 | ppbv  | 92       |
| 57) m,p-Xylene                  | 11.283 | 91   | 254320   | 2.263 | ppbv  | 95       |
| 58) Bromoform                   | 11.838 | 173  | 117733   | 1.092 | ppbv  | 90       |
| 59) Styrene                     | 11.845 | 104  | 93663    | 1.099 | ppbv# | 71       |
| 60) 1,1,2,2-Tetrachloroethane   | 12.769 | 83   | 115630   | 1.054 | ppbv  | 96       |
| 61) o-Xylene                    | 11.784 | 91   | 134527   | 1.017 | ppbv# | 90       |
| 64) Isopropylbenzene            | 12.172 | 105  | 177246   | 1.088 | ppbv# | 91       |
| 66) 4-Ethyltoluene              | 12.815 | 105  | 181918   | 1.118 | ppbv# | 95       |
| 67) 1,3,5-Trimethylbenzene      | 12.931 | 105  | 149132   | 1.075 | ppbv# | 86       |
| 68) 1,2,4-Trimethylbenzene      | 13.386 | 105  | 149722   | 1.117 | ppbv# | 95       |
| 70) Benzyl chloride             | 14.022 | 91   | 90795    | 0.761 | ppbv# | 65       |
| 71) 1,3-Dichlorobenzene         | 13.691 | 146  | 105366   | 1.046 | ppbv  | 98       |
| 72) 1,4-Dichlorobenzene         | 13.781 | 146  | 97768    | 0.985 | ppbv# | 90       |
| 73) sec-Butylbenzene            | 13.502 | 105  | 197550   | 1.073 | ppbv  | 96       |
| 74) 4-Isopropyltoluene          | 13.671 | 119  | 158991   | 1.065 | ppbv# | 92       |
| 75) 1,2-Dichlorobenzene         | 14.158 | 146  | 91781    | 1.005 | ppbv  | 88       |
| 76) n-Butylbenzene              | 14.067 | 91   | 127866   | 1.059 | ppbv# | 91       |
| 77) 1,2,4-Trichlorobenzene      | 15.304 | 180  | 53214    | 0.967 | ppbv# | 93       |
| 79) Hexachlorobutadiene         | 15.304 | 225  | 89007    | 0.987 | ppbv  | 99       |
| 81) 1,2-Dichlorotetrafluor...   | 1.622  | 135  | 134648   | 1.113 | ppbv  | 88       |
| 82) Vinyl Chloride(sim)         | 1.735  | 62   | 55233    | 1.093 | ppbv  | 98       |
| 83) Bromomethane(sim)           | 1.992  | 94   | 61599    | 0.837 | ppbv# | 70       |
| 84) Trichlorofluoromethane...   | 2.235  | 101  | 143629   | 0.764 | ppbv  | 95       |
| 85) 1,1,1-Trichloroethane...    | 5.965  | 97   | 107800   | 0.939 | ppbv# | 83       |
| 86) Carbon Tetrachloride(sim)   | 5.867  | 117  | 119070   | 0.914 | ppbv  | 99       |
| 87) 1,1-Dichloroethene(sim)     | 2.697  | 61   | 69204    | 0.809 | ppbv# | 69       |
| 88) Trichlorotrifluoroetha...   | 2.762  | 101  | 102661   | 0.856 | ppbv  | 99       |
| 89) Trans-1,2-Dichloroethe...   | 3.511  | 61   | 63074    | 0.983 | ppbv# | 84       |
| 90) 1,1-Dichloroethane(sim)     | 4.334  | 63   | 85422    | 0.947 | ppbv  | 96       |
| 91) Cis-1,2-Dichloroethene...   | 5.222  | 61   | 63383    | 1.060 | ppbv# | 57       |
| 92) Chloroform(sim)             | 5.723  | 83   | 106913   | 0.947 | ppbv  | 100      |
| 93) 1,2-Dichloroethane(sim)     | 6.806  | 62   | 71221    | 0.926 | ppbv# | 51       |
| 95) 1,2-dichloropropane(sim)    | 8.018  | 63   | 42701    | 1.084 | ppbv# | 76       |
| 96) Bromodichloromethane(sim)   | 8.158  | 83   | 118057   | 0.984 | ppbv  | 99       |
| 97) Trichloroethene(sim)        | 7.367  | 130  | 67134    | 1.114 | ppbv# | 88       |
| 98) 1,4-Dioxane(sim)            | 8.423  | 88   | 29380    | 1.163 | ppbv# | 95       |
| 99) cis-1,3-Dichloropropen...   | 8.948  | 75   | 80838    | 1.251 | ppbv  | 95       |
| 100) 1,1,2-Trichloroethane(...) | 9.932  | 97   | 63421    | 1.042 | ppbv  | 94       |
| 101) Dibromochloromethane(sim)  | 10.131 | 129  | 127382   | 1.015 | ppbv  | 94       |
| 102) 1,2-Dibromoethane(EDB)...  | 10.358 | 107  | 108707   | 1.046 | ppbv  | 97       |
| 103) Tetrachloroethene(sim)     | 9.684  | 166  | 96074    | 1.168 | ppbv  | 77       |
| 105) Bromoform(sim)             | 11.838 | 173  | 117409   | 1.107 | ppbv# | 2        |
| 106) 1,1,1,2-Tetrachloroeth...  | 11.121 | 131  | 64782    | 0.979 | ppbv  | 99       |
| 107) m,p-Xylene(sim)            | 11.283 | 91   | 254329   | 2.153 | ppbv  | 95       |
| 108) 1,1,2,2-Tetrachloroeth...  | 12.772 | 83   | 121731   | 1.001 | ppbv  | 97       |
| 111) Benzyl chloride(sim)       | 14.022 | 91   | 90795    | 1.079 | ppbv  | 65       |
| 112) 1,3-Dichlorobenzene(sim)   | 13.694 | 146  | 115789   | 1.045 | ppbv  | 99       |
| 113) 1,4-Dichlorobenzene(sim)   | 13.781 | 146  | 97768    | 1.034 | ppbv  | 90       |
| 114) sec-Butylbenzene(sim)      | 13.505 | 105  | 211859   | 1.026 | ppbv  | 95       |
| 115) 4-Isopropyltoluene(sim)    | 13.671 | 119  | 158991   | 1.058 | ppbv# | 92       |
| 116) 1,2-Dichlorobenzene(sim)   | 14.161 | 146  | 99709    | 0.978 | ppbv  | 99       |
| 117) n-Butylbenzene(sim)        | 14.067 | 91   | 127866   | 1.020 | ppbv  | 91       |
| 118) 1,2,4-Trichlorobenzene...  | 15.302 | 180  | 59570    | 1.356 | ppbv# | 74       |
| 119) Hexachlorobutadiene(sim)   | 15.304 | 225  | 88480    | 1.009 | ppbv# | 89       |

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_18.D  
 Acq On : 3 Dec 2019 10:53 pm  
 Operator : Keith  
 Client ID : ICAL 1  
 Lab ID : 1ppb  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 04 09:00:05 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

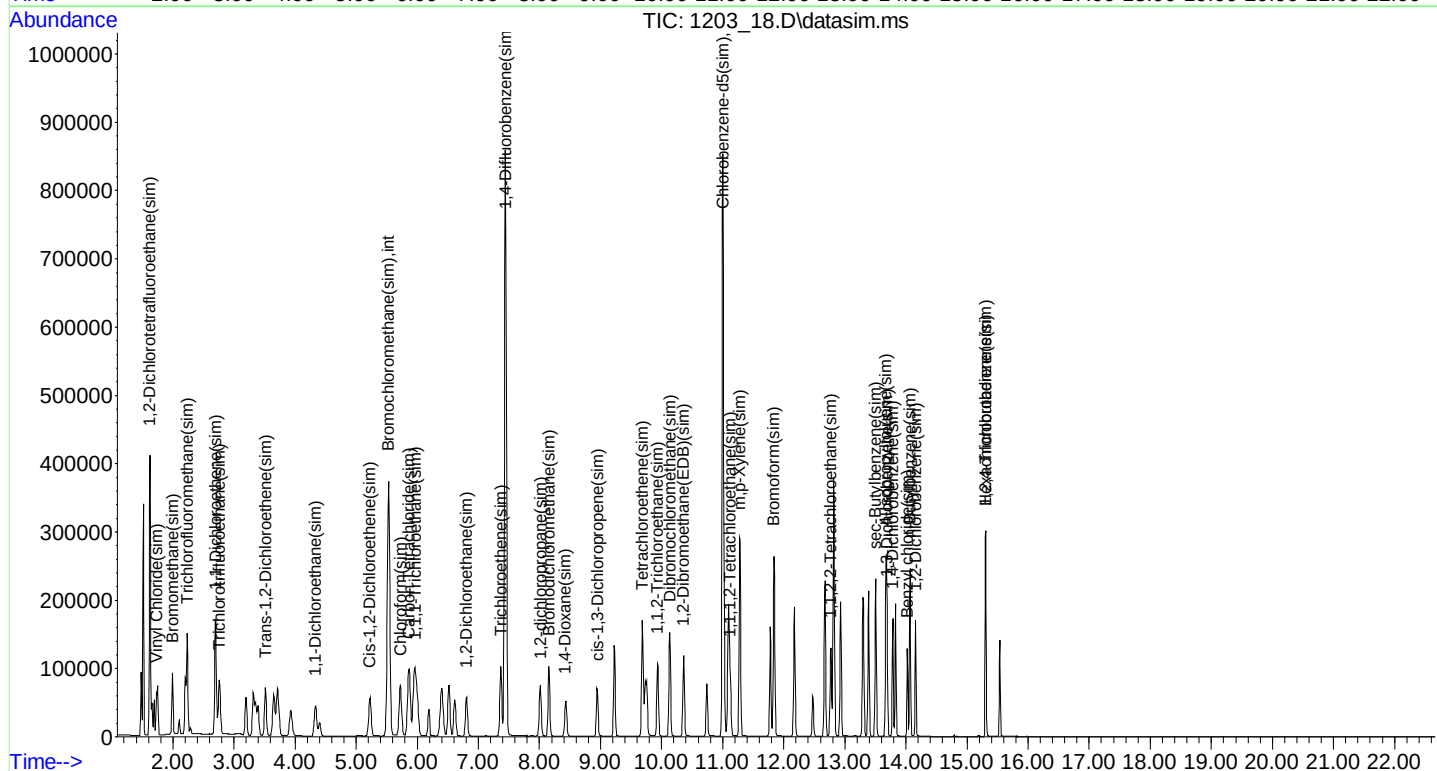
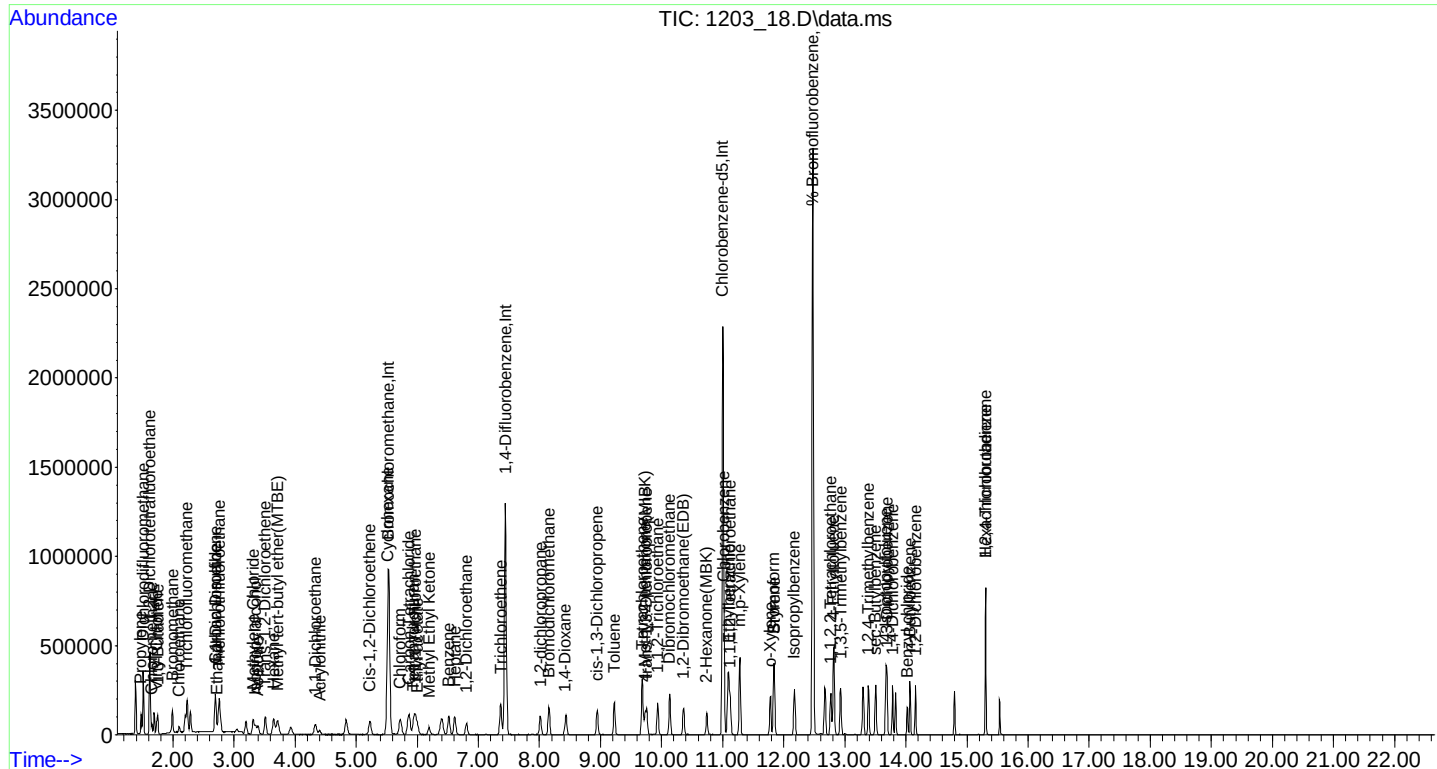
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_18.D  
 Acq On : 3 Dec 2019 10:53 pm  
 Operator : Keith  
 Client ID : ICAL 1  
 Lab ID : 1ppb  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 04 09:00:05 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_19.D  
 Acq On : 3 Dec 2019 11:24 pm  
 Operator : Keith  
 Client ID : ICAL 0.2  
 Lab ID : 0.2ppb  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 04 08:49:11 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:48:44 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.540  | 130  | 533162   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.443  | 114  | 1341657  | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 11.001 | 82   | 693077   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.542  | 130  | 538594   | 10.000 | ng    | # 0.01   |
| 94) 1,4-Difluorobenzene(sim) | 7.445  | 114  | 1458617  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 11.004 | 82   | 750723   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

|                          |        |       |          |          |      |        |
|--------------------------|--------|-------|----------|----------|------|--------|
| 62) % Bromofluorobenzene | 12.477 | 95    | 980629   | 9.619    | ppbv | 0.00   |
| Spiked Amount            | 10.000 | Range | 70 - 130 | Recovery | =    | 96.20% |

## Target Compounds

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Qvalue |
|-------------------------------|--------|------|----------|-------|-------|--------|
| 2) Propylene                  | 1.499  | 41   | 7439     | 0.150 | ppbv  | 87     |
| 3) Dichlorodifluoromethane    | 1.533  | 101  | 4553     | 0.202 | ppbv# | 77     |
| 4) Chloromethane              | 1.677  | 50   | 10154m   | 0.239 | ppbv  | 40     |
| 5) 1,2-Dichlorotetrafluor...  | 1.643  | 135  | 28144    | 0.226 | ppbv  | 93     |
| 6) Vinyl Chloride             | 1.752  | 62   | 11104    | 0.221 | ppbv  | 100    |
| 7) 1,3-Butadiene              | 1.773  | 54   | 6746     | 0.226 | ppbv# | 50     |
| 8) Bromomethane               | 2.006  | 94   | 14173    | 0.192 | ppbv# | 82     |
| 9) Chloroethane               | 2.122  | 64   | 5229m    | 0.204 | ppbv  | 86     |
| 10) Ethanol                   | 2.738  | 45   | 4285     | 0.324 | ppbv# | 78     |
| 12) Acetone                   | 3.409  | 43   | 18142    | 0.211 | ppbv  | 97     |
| 13) Trichlorofluoromethane    | 2.245  | 101  | 33553    | 0.194 | ppbv  | 99     |
| 14) Isopropylalcohol          | 3.354  | 45   | 15719    | 0.213 | ppbv# | 95     |
| 15) Acrylonitrile             | 4.414  | 53   | 5624     | 0.226 | ppbv# | 67     |
| 16) 1,1-Dichloroethene        | 2.711  | 61   | 18449    | 0.211 | ppbv  | 89     |
| 17) Methylene Chloride        | 3.333  | 49   | 12277    | 0.222 | ppbv  | 98     |
| 20) Carbon Disulfide          | 2.711  | 76   | 35508    | 0.237 | ppbv  | 99     |
| 21) Trichlorotrifluoroethane  | 2.779  | 101  | 26562    | 0.224 | ppbv  | 94     |
| 22) Trans-1,2-Dichloroethene  | 3.532  | 61   | 14716    | 0.209 | ppbv# | 92     |
| 23) 1,1-Dichloroethane        | 4.341  | 63   | 18807    | 0.204 | ppbv  | 92     |
| 24) Methyl tert-butyl ethe... | 3.737  | 73   | 25720    | 0.215 | ppbv# | 51     |
| 25) Methyl Ethyl Ketone       | 6.196  | 43   | 10819    | 0.159 | ppbv# | 88     |
| 26) Cis-1,2-Dichloroethene    | 5.237  | 61   | 14014    | 0.191 | ppbv# | 94     |
| 27) Hexane                    | 3.668  | 57   | 13986    | 0.208 | ppbv# | 62     |
| 28) Chloroform                | 5.727  | 83   | 21674    | 0.178 | ppbv  | 94     |
| 29) Ethyl acetate             | 6.015  | 43   | 16195    | 0.198 | ppbv  | 100    |
| 30) Tetrahydrofuran           | 5.950  | 42   | 6257     | 0.194 | ppbv# | 56     |
| 31) 1,2-Dichloroethane        | 6.813  | 62   | 16480    | 0.186 | ppbv# | 85     |
| 32) 1,1,1-Trichloroethane     | 5.972  | 97   | 24656    | 0.199 | ppbv  | 94     |
| 33) Benzene                   | 6.518  | 78   | 25079    | 0.206 | ppbv  | 98     |
| 34) Carbon Tetrachloride      | 5.871  | 117  | 25559    | 0.180 | ppbv  | 95     |
| 35) Cyclohexane               | 5.532  | 56   | 10659    | 0.186 | ppbv# | 33     |
| 37) 1,2-dichloropropane       | 8.018  | 63   | 8264     | 0.185 | ppbv# | 72     |
| 38) Bromodichloromethane      | 8.155  | 83   | 21873    | 0.178 | ppbv  | 97     |
| 39) Trichloroethene           | 7.374  | 130  | 14074    | 0.205 | ppbv  | 95     |
| 41) 1,4-Dioxane               | 8.421  | 88   | 5073     | 0.186 | ppbv# | 18     |
| 43) Heptane                   | 6.628  | 43   | 10390    | 0.192 | ppbv# | 71     |
| 44) cis-1,3-Dichloropropene   | 8.948  | 75   | 14276    | 0.170 | ppbv  | 90     |
| 45) 4-Methyl-2-pentanone(M... | 9.734  | 43   | 15241    | 0.189 | ppbv# | 88     |
| 46) trans-1,3-Dichloropropene | 9.763  | 75   | 14360    | 0.195 | ppbv# | 85     |
| 47) 1,1,2-Trichloroethane     | 9.937  | 97   | 12554    | 0.208 | ppbv  | 94     |
| 48) Toluene                   | 9.229  | 91   | 26148    | 0.186 | ppbv  | 97     |
| 49) Dibromochloromethane      | 10.131 | 129  | 26718    | 0.194 | ppbv  | 91     |
| 50) 2-Hexanone(MBK)           | 10.741 | 43   | 13987    | 0.157 | ppbv# | 87     |
| 51) 1,2-Dibromoethane(EDB)    | 10.363 | 107  | 20858    | 0.196 | ppbv  | 97     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_19.D  
 Acq On : 3 Dec 2019 11:24 pm  
 Operator : Keith  
 Client ID : ICAL 0.2  
 Lab ID : 0.2ppb  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 04 08:49:11 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:48:44 2019  
 Response via : Initial Calibration

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene         | 9.684  | 166  | 19830    | 0.205 | ppbv  | 91       |
| 54)  | 1,1,1,2-Tetrachloroethane | 11.118 | 131  | 13066    | 0.209 | ppbv  | 94       |
| 55)  | Chlorobenzene             | 11.022 | 112  | 21537    | 0.207 | ppbv# | 1        |
| 56)  | Ethylbenzene              | 11.097 | 91   | 32703    | 0.210 | ppbv  | 92       |
| 57)  | m,p-Xylene                | 11.283 | 91   | 47669    | 0.415 | ppbv# | 93       |
| 58)  | Bromoform                 | 11.838 | 173  | 23404    | 0.212 | ppbv  | 94       |
| 59)  | Styrene                   | 11.845 | 104  | 15590    | 0.179 | ppbv# | 94       |
| 60)  | 1,1,2,2-Tetrachloroethane | 12.769 | 83   | 23934    | 0.213 | ppbv  | 100      |
| 61)  | o-Xylene                  | 11.777 | 91   | 23155    | 0.171 | ppbv# | 95       |
| 64)  | Isopropylbenzene          | 12.172 | 105  | 30633    | 0.184 | ppbv# | 90       |
| 66)  | 4-Ethyltoluene            | 12.815 | 105  | 33218    | 0.200 | ppbv# | 88       |
| 67)  | 1,3,5-Trimethylbenzene    | 12.931 | 105  | 27753    | 0.196 | ppbv  | 92       |
| 68)  | 1,2,4-Trimethylbenzene    | 13.386 | 105  | 25304    | 0.185 | ppbv  | 96       |
| 70)  | Benzyl chloride           | 14.022 | 91   | 13376    | 0.144 | ppbv# | 86       |
| 71)  | 1,3-Dichlorobenzene       | 13.691 | 146  | 21930    | 0.213 | ppbv  | 97       |
| 72)  | 1,4-Dichlorobenzene       | 13.781 | 146  | 20300    | 0.200 | ppbv  | 95       |
| 73)  | sec-Butylbenzene          | 13.509 | 105  | 37268    | 0.198 | ppbv# | 92       |
| 74)  | 4-Isopropyltoluene        | 13.671 | 119  | 27226    | 0.178 | ppbv# | 93       |
| 75)  | 1,2-Dichlorobenzene       | 14.158 | 146  | 18033    | 0.193 | ppbv  | 96       |
| 76)  | n-Butylbenzene            | 14.067 | 91   | 21070    | 0.171 | ppbv# | 84       |
| 81)  | 1,2-Dichlorotetrafluor... | 1.643  | 135  | 28144    | 0.208 | ppbv  | 93       |
| 82)  | Vinyl Chloride(sim)       | 1.748  | 62   | 11896    | 0.211 | ppbv  | 98       |
| 84)  | Trichlorofluoromethane... | 2.248  | 101  | 34513    | 0.164 | ppbv  | 99       |
| 85)  | 1,1,1-Trichloroethane(... | 5.972  | 97   | 24656    | 0.192 | ppbv# | 94       |
| 86)  | Carbon Tetrachloride(sim) | 5.874  | 117  | 26285    | 0.181 | ppbv  | 99       |
| 87)  | 1,1-Dichloroethene(sim)   | 2.711  | 61   | 18449    | 0.193 | ppbv  | 89       |
| 89)  | Trans-1,2-Dichloroethe... | 3.532  | 61   | 14716    | 0.205 | ppbv# | 92       |
| 90)  | 1,1-Dichloroethane(sim)   | 4.349  | 63   | 20245    | 0.201 | ppbv  | 98       |
| 91)  | Cis-1,2-Dichloroethene... | 5.237  | 61   | 14115    | 0.211 | ppbv# | 87       |
| 92)  | Chloroform(sim)           | 5.730  | 83   | 23328    | 0.185 | ppbv  | 96       |
| 93)  | 1,2-Dichloroethane(sim)   | 6.813  | 62   | 16480    | 0.192 | ppbv# | 89       |
| 95)  | 1,2-dichloropropane(sim)  | 8.018  | 63   | 8264     | 0.198 | ppbv# | 72       |
| 96)  | Bromodichloromethane(sim) | 8.158  | 83   | 23832    | 0.188 | ppbv  | 98       |
| 97)  | Trichloroethene(sim)      | 7.374  | 130  | 14074    | 0.220 | ppbv  | 95       |
| 99)  | cis-1,3-Dichloropropen... | 8.948  | 75   | 14276    | 0.209 | ppbv# | 53       |
| 100) | 1,1,2-Trichloroethane(... | 9.939  | 97   | 13753    | 0.213 | ppbv  | 98       |
| 101) | Dibromochloromethane(sim) | 10.131 | 129  | 26718    | 0.201 | ppbv  | 88       |
| 102) | 1,2-Dibromoethane(EDB)... | 10.358 | 107  | 22690    | 0.206 | ppbv  | 99       |
| 103) | Tetrachloroethene(sim)    | 9.684  | 166  | 19830    | 0.227 | ppbv  | 94       |
| 105) | Bromoform(sim)            | 11.838 | 173  | 23309    | 0.213 | ppbv# | 79       |
| 106) | 1,1,1,2-Tetrachloroeth... | 11.128 | 131  | 13808    | 0.202 | ppbv  | 96       |
| 108) | 1,1,2,2-Tetrachloroeth... | 12.772 | 83   | 25428    | 0.203 | ppbv  | 100      |
| 112) | 1,3-Dichlorobenzene(sim)  | 13.694 | 146  | 24662    | 0.216 | ppbv  | 100      |
| 119) | Hexachlorobutadiene(sim)  | 15.309 | 225  | 16489    | 0.182 | ppbv  | 98       |

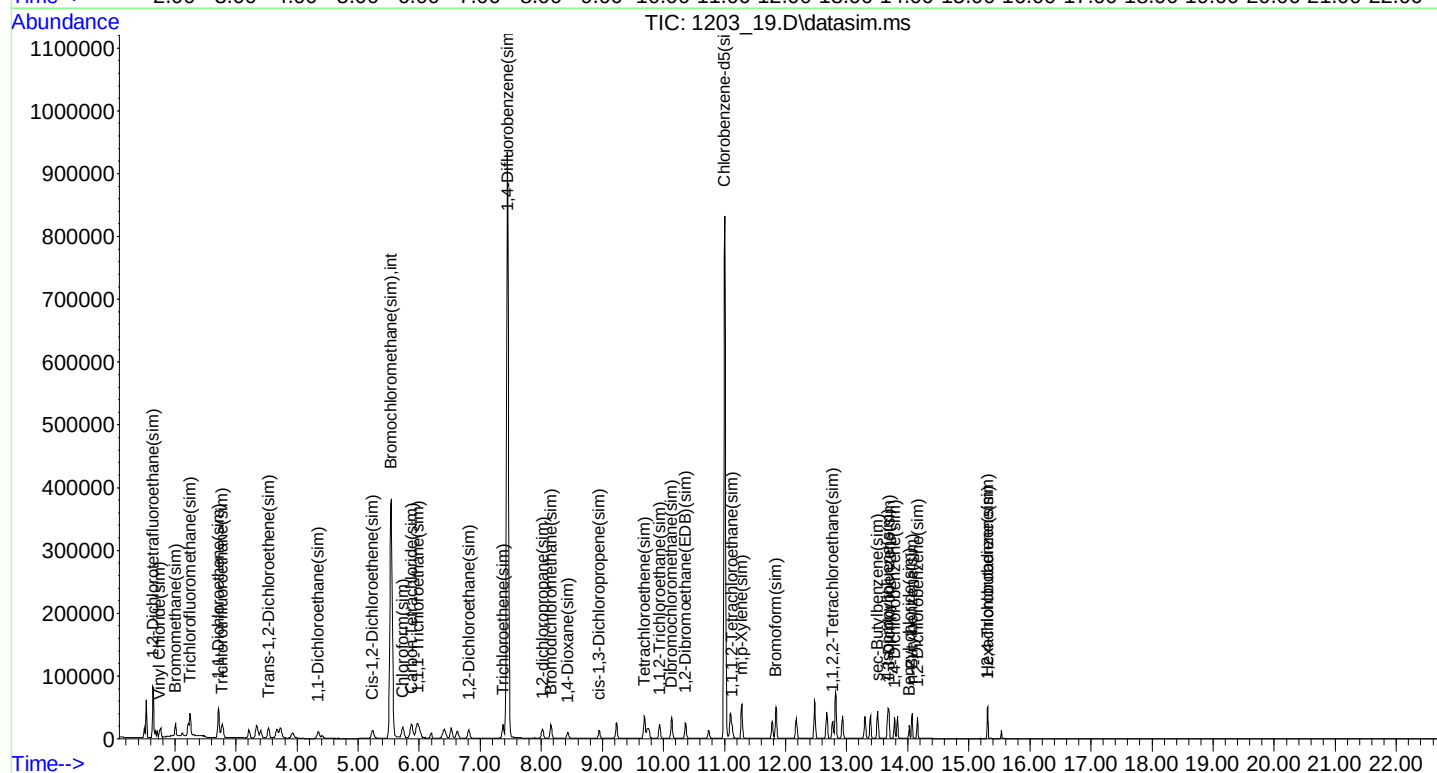
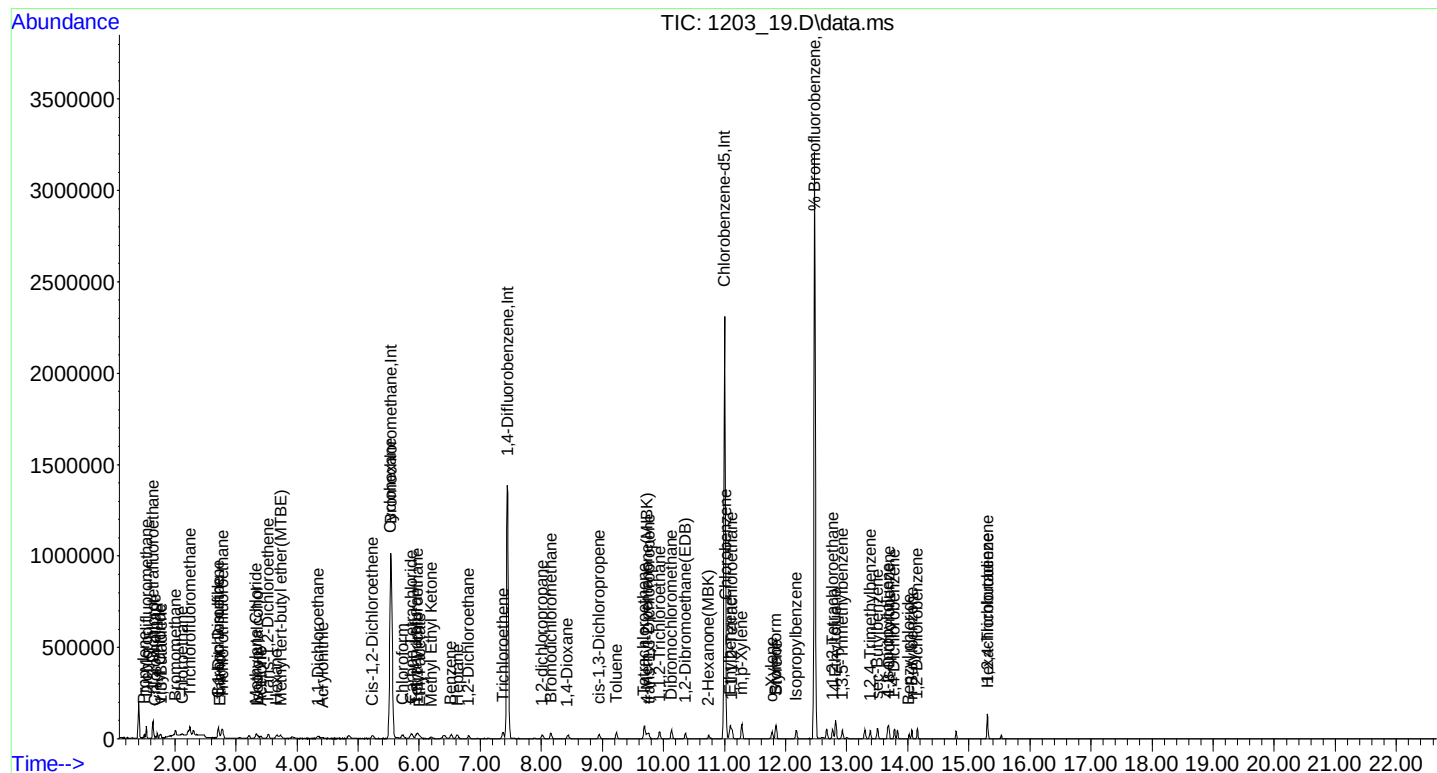
(#)out of range (m)manual integration reviewed by analyst (+)signals summed



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
Data File : 1203\_19.D  
Acq On : 3 Dec 2019 11:24 pm  
Operator : Keith  
Client ID : ICAI 0.2  
Lab ID : 0.2ppb  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 04 08:49:11 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
QLast Update : Wed Dec 04 08:48:44 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_20.D  
 Acq On : 4 Dec 2019 12:43 am  
 Operator : Keith  
 Client ID : ICAL 10  
 Lab ID : 10ppb  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 04 13:55:53 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.535  | 130  | 288023   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.446  | 114  | 812049   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 11.004 | 82   | 478178   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.531  | 130  | 296319   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.449  | 114  | 887444   | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 11.000 | 82   | 510302   | 10.000 | ng    | 0.00     |

System Monitoring Compounds  
 62) % Bromofluorobenzene 12.480 95 743644 10.311 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 103.10%

| Target Compounds              | R.T.   | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|--------|------|----------|--------|-------|--------|
| 2) Propylene                  | 1.478  | 41   | 357394m  | 13.383 | ppbv  | 69     |
| 3) Dichlorodifluoromethane    | 1.513  | 101  | 137166   | 11.277 | ppbv# | 71     |
| 4) Chloromethane              | 1.656  | 50   | 209248   | 9.132  | ppbv  | 92     |
| 5) 1,2-Dichlorotetrafluor...  | 1.622  | 135  | 649586   | 9.640  | ppbv  | 89     |
| 6) Vinyl Chloride             | 1.732  | 62   | 258301   | 9.506  | ppbv  | 95     |
| 7) 1,3-Butadiene              | 1.752  | 54   | 160837   | 9.953  | ppbv# | 41     |
| 8) Bromomethane               | 1.992  | 94   | 354262   | 8.863  | ppbv# | 67     |
| 9) Chloroethane               | 2.102  | 64   | 118937   | 8.610  | ppbv# | 57     |
| 10) Ethanol                   | 2.718  | 45   | 64898    | 9.082  | ppbv# | 76     |
| 12) Acetone                   | 3.388  | 43   | 452996   | 9.746  | ppbv  | 99     |
| 13) Trichlorofluoromethane    | 2.232  | 101  | 765474   | 8.213  | ppbv# | 88     |
| 14) Isopropylalcohol          | 3.354  | 45   | 404914   | 10.160 | ppbv# | 1      |
| 15) Acrylonitrile             | 4.398  | 53   | 137486   | 10.227 | ppbv# | 81     |
| 16) 1,1-Dichloroethene        | 2.691  | 61   | 428715   | 9.095  | ppbv# | 79     |
| 17) Methylene Chloride        | 3.313  | 49   | 293223   | 9.830  | ppbv  | 95     |
| 20) Carbon Disulfide          | 2.697  | 76   | 766373   | 9.456  | ppbv  | 100    |
| 21) Trichlorotrifluoroethane  | 2.759  | 101  | 568383   | 8.863  | ppbv# | 86     |
| 22) Trans-1,2-Dichloroethene  | 3.511  | 61   | 377399   | 9.938  | ppbv  | 96     |
| 23) 1,1-Dichloroethane        | 4.335  | 63   | 499527   | 10.019 | ppbv  | 100    |
| 24) Methyl tert-butyl ethe... | 3.703  | 73   | 638815   | 9.864  | ppbv# | 58     |
| 25) Methyl Ethyl Ketone       | 6.184  | 43   | 417985   | 11.367 | ppbv# | 59     |
| 26) Cis-1,2-Dichloroethene    | 5.225  | 61   | 441045   | 11.138 | ppbv# | 61     |
| 27) Hexane                    | 3.648  | 57   | 327639   | 9.006  | ppbv  | 88     |
| 28) Chloroform                | 5.723  | 83   | 682189   | 10.391 | ppbv# | 80     |
| 29) Ethyl acetate             | 6.004  | 43   | 437350   | 9.894  | ppbv  | 100    |
| 30) Tetrahydrofuran           | 5.918  | 42   | 181113   | 10.373 | ppbv# | 30     |
| 31) 1,2-Dichloroethane        | 6.809  | 62   | 485704   | 10.131 | ppbv# | 84     |
| 32) 1,1,1-Trichloroethane     | 5.968  | 97   | 639005   | 9.536  | ppbv# | 77     |
| 33) Benzene                   | 6.521  | 78   | 682113   | 10.352 | ppbv# | 80     |
| 34) Carbon Tetrachloride      | 5.860  | 117  | 767751   | 10.003 | ppbv  | 94     |
| 35) Cyclohexane               | 5.521  | 56   | 340272   | 11.020 | ppbv# | 22     |
| 37) 1,2-dichloropropane       | 8.014  | 63   | 302981   | 11.179 | ppbv# | 55     |
| 38) Bromodichloromethane      | 8.158  | 83   | 769301   | 10.326 | ppbv  | 83     |
| 39) Trichloroethene           | 7.363  | 130  | 445120   | 10.732 | ppbv  | 90     |
| 41) 1,4-Dioxane               | 8.410  | 88   | 193567   | 11.718 | ppbv# | 64     |
| 43) Heptane                   | 6.610  | 43   | 347404   | 10.579 | ppbv# | 16     |
| 44) cis-1,3-Dichloropropene   | 8.944  | 75   | 616953   | 12.150 | ppbv  | 94     |
| 45) 4-Methyl-2-pentanone(M... | 9.731  | 43   | 502201   | 10.279 | ppbv# | 70     |
| 46) trans-1,3-Dichloropropene | 9.760  | 75   | 456623   | 10.259 | ppbv# | 89     |
| 47) 1,1,2-Trichloroethane     | 9.933  | 97   | 364088   | 9.951  | ppbv  | 91     |
| 48) Toluene                   | 9.225  | 91   | 968869   | 11.356 | ppbv  | 94     |
| 49) Dibromochloromethane      | 10.135 | 129  | 842678   | 10.134 | ppbv# | 91     |
| 50) 2-Hexanone(MBK)           | 10.737 | 43   | 626135   | 11.619 | ppbv# | 88     |
| 51) 1,2-Dibromoethane(EDB)    | 10.359 | 107  | 691235   | 10.710 | ppbv  | 98     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_20.D  
 Acq On : 4 Dec 2019 12:43 am  
 Operator : Keith  
 Client ID : ICAL 10  
 Lab ID : 10ppb  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 04 13:55:53 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

| Compound                        | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|--------|------|----------|--------|-------|----------|
| 52) Tetrachloroethene           | 9.687  | 166  | 613886   | 10.510 | ppbv  | 90       |
| 54) 1,1,1,2-Tetrachloroethane   | 11.121 | 131  | 405909   | 9.414  | ppbv# | 90       |
| 55) Chlorobenzene               | 11.025 | 112  | 751163   | 10.471 | ppbv# | 1        |
| 56) Ethylbenzene                | 11.100 | 91   | 1086397  | 10.088 | ppbv  | 93       |
| 57) m,p-Xylene                  | 11.286 | 91   | 1728970  | 21.813 | ppbv  | 95       |
| 58) Bromoform                   | 11.842 | 173  | 704845   | 9.266  | ppbv  | 90       |
| 59) Styrene                     | 11.848 | 104  | 640751   | 10.659 | ppbv# | 70       |
| 60) 1,1,2,2-Tetrachloroethane   | 12.772 | 83   | 765386   | 9.888  | ppbv  | 95       |
| 61) o-Xylene                    | 11.780 | 91   | 1081371  | 11.588 | ppbv# | 91       |
| 64) Isopropylbenzene            | 12.175 | 105  | 1318082  | 11.477 | ppbv# | 91       |
| 66) 4-Ethyltoluene              | 12.818 | 105  | 1180589  | 10.286 | ppbv# | 95       |
| 67) 1,3,5-Trimethylbenzene      | 12.928 | 105  | 1059177  | 10.823 | ppbv# | 87       |
| 68) 1,2,4-Trimethylbenzene      | 13.389 | 105  | 1012182  | 10.708 | ppbv# | 94       |
| 70) Benzyl chloride             | 14.025 | 91   | 862762   | 10.395 | ppbv# | 62       |
| 71) 1,3-Dichlorobenzene         | 13.694 | 146  | 672817   | 9.471  | ppbv  | 98       |
| 72) 1,4-Dichlorobenzene         | 13.785 | 146  | 744961   | 10.645 | ppbv# | 90       |
| 73) sec-Butylbenzene            | 13.506 | 105  | 1371441  | 10.564 | ppbv  | 96       |
| 74) 4-Isopropyltoluene          | 13.674 | 119  | 1161399  | 11.028 | ppbv# | 91       |
| 75) 1,2-Dichlorobenzene         | 14.161 | 146  | 646964   | 10.041 | ppbv  | 89       |
| 76) n-Butylbenzene              | 14.070 | 91   | 914462   | 10.744 | ppbv# | 91       |
| 77) 1,2,4-Trichlorobenzene      | 15.320 | 180  | 397313   | 11.062 | ppbv# | 90       |
| 79) Hexachlorobutadiene         | 15.325 | 225  | 540681   | 9.557  | ppbv  | 99       |
| 81) 1,2-Dichlorotetrafluor...   | 1.622  | 135  | 648726   | 8.731  | ppbv  | 88       |
| 82) Vinyl Chloride(sim)         | 1.728  | 62   | 277275   | 8.932  | ppbv  | 99       |
| 83) Bromomethane(sim)           | 1.992  | 94   | 354262   | 7.831  | ppbv# | 68       |
| 84) Trichlorofluoromethane...   | 2.235  | 101  | 781632   | 6.768  | ppbv  | 96       |
| 85) 1,1,1-Trichloroethane...    | 5.968  | 97   | 639342   | 9.061  | ppbv# | 83       |
| 86) Carbon Tetrachloride(sim)   | 5.863  | 117  | 770355   | 9.621  | ppbv  | 98       |
| 87) 1,1-Dichloroethene(sim)     | 2.691  | 61   | 428715   | 8.155  | ppbv# | 70       |
| 88) Trichlorotrifluoroetha...   | 2.762  | 101  | 574927   | 9.464  | ppbv  | 100      |
| 89) Trans-1,2-Dichloroethe...   | 3.511  | 61   | 377399   | 9.569  | ppbv# | 86       |
| 90) 1,1-Dichloroethane(sim)     | 4.338  | 63   | 538227   | 9.711  | ppbv  | 97       |
| 91) Cis-1,2-Dichloroethene...   | 5.225  | 61   | 440978   | 12.008 | ppbv# | 61       |
| 92) Chloroform(sim)             | 5.726  | 83   | 713730   | 10.285 | ppbv  | 99       |
| 93) 1,2-Dichloroethane(sim)     | 6.809  | 62   | 485704   | 10.284 | ppbv# | 54       |
| 95) 1,2-dichloropropane(sim)    | 8.014  | 63   | 302981   | 11.931 | ppbv# | 75       |
| 96) Bromodichloromethane(sim)   | 8.154  | 83   | 796285   | 10.300 | ppbv  | 98       |
| 97) Trichloroethene(sim)        | 7.363  | 130  | 445023   | 11.452 | ppbv# | 88       |
| 98) 1,4-Dioxane(sim)            | 8.412  | 88   | 210625   | 8.795  | ppbv  | 98       |
| 99) cis-1,3-Dichloropropen...   | 8.944  | 75   | 617023   | 14.815 | ppbv  | 94       |
| 100) 1,1,2-Trichloroethane(...) | 9.936  | 97   | 392211   | 9.997  | ppbv  | 93       |
| 101) Dibromochloromethane(sim)  | 10.135 | 129  | 842497   | 10.417 | ppbv  | 93       |
| 102) 1,2-Dibromoethane(EDB)...  | 10.362 | 107  | 712531   | 10.632 | ppbv  | 95       |
| 103) Tetrachloroethene(sim)     | 9.687  | 166  | 613449   | 11.564 | ppbv  | 77       |
| 105) Bromoform(sim)             | 11.842 | 173  | 704369   | 9.486  | ppbv# | 1        |
| 106) 1,1,1,2-Tetrachloroeth...  | 11.124 | 131  | 424102   | 9.148  | ppbv  | 98       |
| 107) m,p-Xylene(sim)            | 11.286 | 91   | 1730569  | 17.265 | ppbv  | 95       |
| 108) 1,1,2,2-Tetrachloroeth...  | 12.769 | 83   | 793943   | 9.317  | ppbv  | 99       |
| 111) Benzyl chloride(sim)       | 14.025 | 91   | 862762   | 7.985  | ppbv  | 62       |
| 112) 1,3-Dichlorobenzene(sim)   | 13.697 | 146  | 727788   | 9.374  | ppbv  | 98       |
| 113) 1,4-Dichlorobenzene(sim)   | 13.785 | 146  | 744461   | 8.466  | ppbv  | 90       |
| 114) sec-Butylbenzene(sim)      | 13.508 | 105  | 1439820  | 8.165  | ppbv  | 94       |
| 115) 4-Isopropyltoluene(sim)    | 13.674 | 119  | 1161399  | 7.910  | ppbv# | 91       |
| 116) 1,2-Dichlorobenzene(sim)   | 14.157 | 146  | 685052   | 8.276  | ppbv  | 97       |
| 117) n-Butylbenzene(sim)        | 14.070 | 91   | 914462   | 7.737  | ppbv  | 91       |
| 118) 1,2,4-Trichlorobenzene...  | 15.323 | 180  | 408423   | 8.362  | ppbv# | 73       |
| 119) Hexachlorobutadiene(sim)   | 15.325 | 225  | 540687   | 8.801  | ppbv# | 90       |

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1203\_20.D  
 Acq On : 4 Dec 2019 12:43 am  
 Operator : Keith  
 Client ID : ICAL 10  
 Lab ID : 10ppb  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 04 13:55:53 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

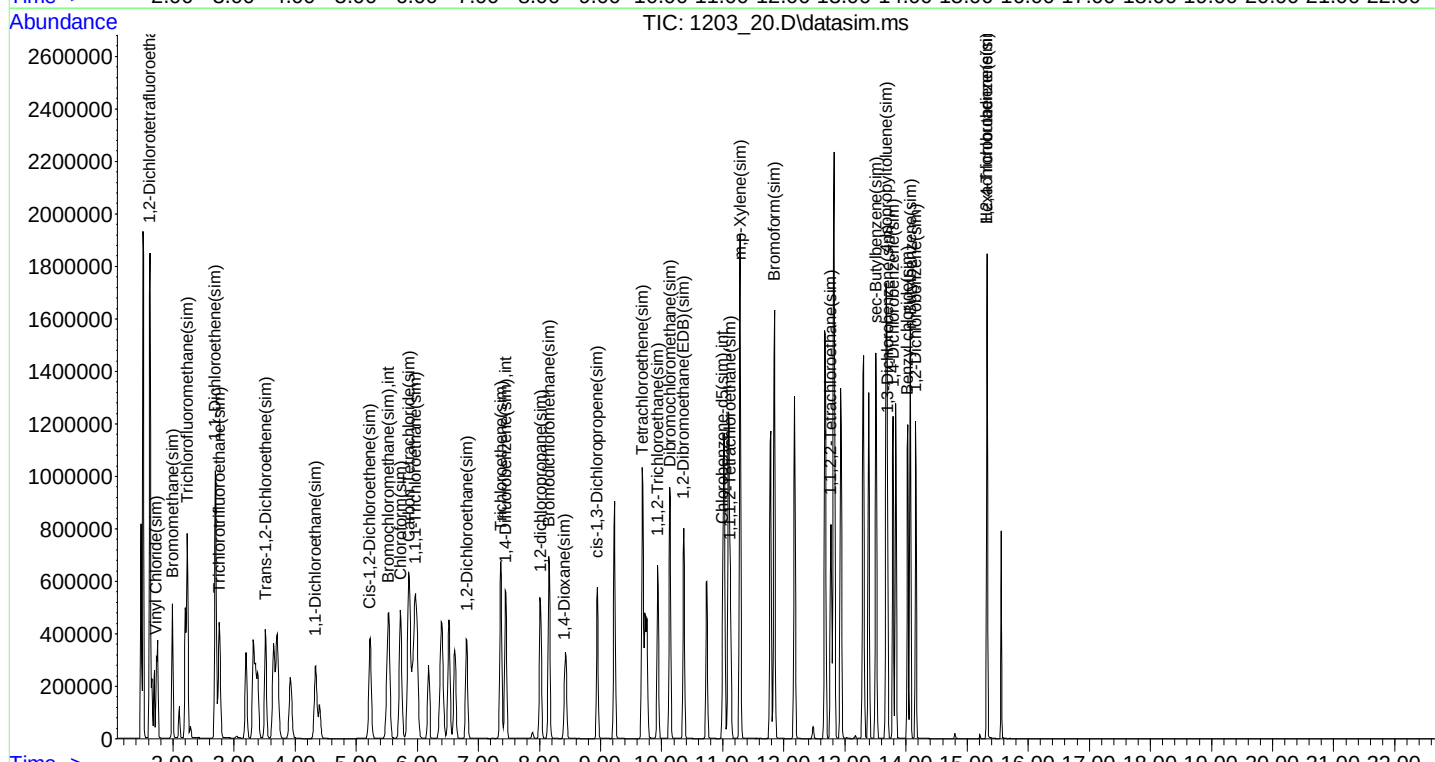
(#)out of range (m>manual integration reviewed by analyst (+)signals summed

```

Data Path   : H:\AIR2019\CHEM24\12DEC\03B\
Data File   : 1203_20.D
Acq On      : 4 Dec 2019 12:43 am
Operator    : Keith
Client ID   : ICAL 10
Lab ID      : 10ppb
ALS Vial    : 18 Sample Multiplier: 1

```

The chromatogram displays a series of peaks over a 22-minute period. The y-axis represents Abundance, ranging from 0 to 5,500,000. The x-axis represents Time in minutes, ranging from 0.00 to 22.00. Numerous peaks are labeled with their corresponding chemical names, including: Propane, Propylene, Dichlorodifluoromethane, Chloroethane, Bromomethane, Trichlorofluoromethane, Ethanol, Dichloromethane, Acetone, Methyl Chloride, Methyl tert-butyl ether (MTBE), Acrylonitrile, 1,1-Dichloroethane, Cis-1,2-Dichloroethane, Bromochloromethane, Chloroacetaldehyde, Methyl Ethyl Ketone, Benzene, 1,2-Dichloroethane, 1,4-Dichlorobenzene, 1,2-Dichloropropane, Bromochloromethane, 1,4-Dioxane, cis-1,3-Dichloropropene, Toluene, 4-Methyl-2-pentanone, 1,1,2-Trichloroethane, 1,2-Dibromoethane (EDB), 2-Hexanone (MBK), 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, m,p-Xylene, o-Xylene, Styrene, Isopropylbenzene, % Bromofluorobenzene, Surr, 1,1,2,2-Tetrachloroethane, 1,3,5-Trinitrobenzene, Ethyltoluene, 1,2,4-Trichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzyl Chloride, 1,2-Dichlorobenzene, Hexachlorobutadiene, and Hexachlorobenzene.



6B  
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs  
 Lab Code: Phoenix  
 Instrument ID: CHEM24  
 Heated Purge (Y/N): Y  
 GC Column: \_\_\_\_\_

Client: CEG  
 SDG No.: GCE81145  
 Calibration Date From: 12/07/19 18:52  
 Calibration Date Thru: 12/07/19 23:28  
 Method File: 24AIR\_1207.M

Laboratory File Ids

| RRF1                          | 1207_03.D | RRF2  | 1207_04.D | RRF3  | 1207_05.D | RRF4  | 1207_06.D | RRF5  | 1207_14.D | RRF6  | 1207_07.D | RRF7  | 1207_13.D | RRF8  | 1207_08.D | RRF9 | 1207_09.D | RRF10 | 1207_15.D | RRF11 | 1207_10.D | RRF12 | 1207_11.D |  |  |
|-------------------------------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|------|-----------|-------|-----------|-------|-----------|-------|-----------|--|--|
| COMPOUND                      | RRF1      | RRF2  | RRF3      | RRF4  | RRF5      | RRF6  | RRF7      | RRF8  | RRF9      | RRF10 | RRF11     | RRF12 | —         | %     |           |      |           |       |           |       |           |       |           |  |  |
|                               | 0.02      | 0.035 | 0.05      | 0.1   | 0.2       | 0.5   | 1         | 2.5   | 5         | 10    | 25        | 40    | RRF       | RSD   |           |      |           |       |           |       |           |       |           |  |  |
| Propylene                     |           |       |           |       | 0.944     | 0.750 | 0.927     | 0.861 | 0.990     | 1.056 | 1.105     | 1.027 | 0.957     | 11.89 |           |      |           |       |           |       |           |       |           |  |  |
| Dichlorodifluoromethane       |           |       |           | 0.423 | 0.436     | 0.419 | 0.527     | 0.518 | 0.539     | 0.465 | 0.374     | 0.281 | 0.443     | 18.63 |           |      |           |       |           |       |           |       |           |  |  |
| Chloromethane                 |           |       |           |       | 1.124     | 1.101 | 1.073     | 0.868 | 0.813     | 0.701 | 0.570     | 0.548 | 0.850     | 27.46 |           |      |           |       |           |       |           |       |           |  |  |
| 1,2-Dichlorotetrafluoroethane |           |       |           |       | 3.019     | 2.947 | 3.270     | 2.648 | 2.541     | 2.197 | 2.007     | 1.765 | 2.549     | 20.66 |           |      |           |       |           |       |           |       |           |  |  |
| Vinyl Chloride                |           |       |           | 0.884 | 1.153     | 1.145 | 1.199     | 0.957 | 0.926     | 0.860 | 0.862     | 0.810 | 0.977     | 15.13 |           |      |           |       |           |       |           |       |           |  |  |
| 1,3-Butadiene                 |           |       |           | 0.555 | 0.621     | 0.592 | 0.713     | 0.581 | 0.580     | 0.534 | 0.528     | 0.497 | 0.578     | 10.92 |           |      |           |       |           |       |           |       |           |  |  |
| Bromomethane                  |           |       |           | 1.996 | 1.729     | 1.820 | 1.559     | 1.507 | 1.451     | 1.393 | 1.376     | 1.223 | 1.561     | 15.63 |           |      |           |       |           |       |           |       |           |  |  |
| Chloroethane                  |           |       |           | 0.755 | 0.691     | 0.611 | 0.515     | 0.472 | 0.482     | 0.454 | 0.466     | 0.435 | 0.542     | 21.25 |           |      |           |       |           |       |           |       |           |  |  |
| Ethanol                       |           |       |           |       |           |       | 0.341     | 0.280 | 0.269     | 0.263 | 0.238     | 0.209 | 0.267     | 16.62 |           |      |           |       |           |       |           |       |           |  |  |
| Acetone                       |           |       |           |       |           |       | 1.795     | 1.760 | 1.629     | 1.559 | 1.451     | 1.279 | 1.579     | 12.30 |           |      |           |       |           |       |           |       |           |  |  |
| Trichlorofluoromethane        |           |       |           | 4.674 | 4.521     | 4.907 | 3.567     | 3.910 | 3.566     | 3.193 | 2.863     | 2.366 | 3.730     | 23.01 |           |      |           |       |           |       |           |       |           |  |  |
| Isopropylalcohol              |           |       |           |       | 1.865     | 1.895 | 1.494     | 1.515 | 1.468     | 1.416 | 1.322     | 1.187 | 1.520     | 16.20 |           |      |           |       |           |       |           |       |           |  |  |
| Acrylonitrile                 |           |       |           |       | 0.485     | 0.448 | 0.485     | 0.421 | 0.447     | 0.477 | 0.467     | 0.463 | 0.462     | 4.77  |           |      |           |       |           |       |           |       |           |  |  |
| 1,1-Dichloroethene            |           |       |           | 2.028 | 2.042     | 2.140 | 1.769     | 1.808 | 1.755     | 1.719 | 1.619     | 1.446 | 1.814     | 12.20 |           |      |           |       |           |       |           |       |           |  |  |
| Methylene Chloride            |           |       |           |       | 1.492     | 1.329 | 1.083     | 1.092 | 1.096     | 1.073 | 1.020     | 0.919 | 1.138     | 16.09 |           |      |           |       |           |       |           |       |           |  |  |
| Carbon Disulfide              |           |       |           |       |           | 3.905 | 3.247     | 3.264 | 3.153     | 3.065 | 2.852     | 2.554 | 3.148     | 13.25 |           |      |           |       |           |       |           |       |           |  |  |
| Trichlorotrifluoroethane      |           |       |           |       | 3.231     | 3.286 | 2.594     | 2.673 | 2.486     | 2.330 | 2.200     | 1.952 | 2.594     | 18.08 |           |      |           |       |           |       |           |       |           |  |  |
| Trans-1,2-Dichloroethene      |           |       |           | 1.403 | 1.546     | 1.508 | 1.379     | 1.306 | 1.383     | 1.410 | 1.332     | 1.302 | 1.397     | 6.03  |           |      |           |       |           |       |           |       |           |  |  |
| 1,1-Dichloroethane            |           |       |           | 1.921 | 1.815     | 1.873 | 1.785     | 1.672 | 1.752     | 1.771 | 1.737     | 1.662 | 1.776     | 4.80  |           |      |           |       |           |       |           |       |           |  |  |
| Methyl tert-butyl ether(MTBE) |           |       |           |       | 2.414     | 2.241 | 2.451     | 2.146 | 2.192     | 2.437 | 2.212     | 2.123 | 2.277     | 5.94  |           |      |           |       |           |       |           |       |           |  |  |
| Methyl Ethyl Ketone           |           |       |           |       | 1.592     | 1.523 | 1.549     | 1.455 | 1.661     | 1.756 | 1.834     | 1.785 | 1.644     | 8.31  |           |      |           |       |           |       |           |       |           |  |  |
| Cis-1,2-Dichloroethene        |           |       |           | 1.234 | 1.308     | 1.273 | 1.372     | 1.283 | 1.436     | 1.545 | 1.554     | 1.471 | 1.386     | 8.70  |           |      |           |       |           |       |           |       |           |  |  |
| Hexane                        |           |       |           |       | 1.197     | 1.038 | 1.129     | 0.986 | 1.021     | 1.202 | 1.099     | 1.094 | 1.096     | 7.21  |           |      |           |       |           |       |           |       |           |  |  |
| Chloroform                    |           |       |           | 2.383 | 2.382     | 2.517 | 2.395     | 2.449 | 2.520     | 2.530 | 2.452     | 2.277 | 2.434     | 3.42  |           |      |           |       |           |       |           |       |           |  |  |
| Ethyl acetate                 |           |       |           |       | 1.553     | 1.713 | 1.613     | 1.519 | 1.578     | 1.597 | 1.569     | 1.511 | 1.582     | 4.04  |           |      |           |       |           |       |           |       |           |  |  |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B  
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs  
Lab Code: Phoenix  
Instrument ID: CHEM24  
Heated Purge (Y/N): Y  
GC Column: \_\_\_\_\_

Client: CEG  
SDG No.: GCE81145  
Calibration Date From: 12/07/19 18:52  
Calibration Date Thru: 12/07/19 23:28  
Method File: 24AIR\_1207.M

Laboratory File Ids

| RRF1                       | 1207_03.D | RRF2  | 1207_04.D | RRF3  | 1207_05.D | RRF4  | 1207_06.D | RRF5  | 1207_14.D | RRF6  | 1207_07.D | RRF7  | 1207_13.D | RRF8  | 1207_08.D | RRF9 | 1207_09.D | RRF10 | 1207_15.D | RRF11 | 1207_10.D | RRF12 | 1207_11.D |  |  |
|----------------------------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|------|-----------|-------|-----------|-------|-----------|-------|-----------|--|--|
| COMPOUND                   | RRF1      | RRF2  | RRF3      | RRF4  | RRF5      | RRF6  | RRF7      | RRF8  | RRF9      | RRF10 | RRF11     | RRF12 | —         | %     |           |      |           |       |           |       |           |       |           |  |  |
|                            | 0.02      | 0.035 | 0.05      | 0.1   | 0.2       | 0.5   | 1         | 2.5   | 5         | 10    | 25        | 40    | RRF       | RSD   |           |      |           |       |           |       |           |       |           |  |  |
| Tetrahydrofuran            |           |       |           |       | 0.558     | 0.546 | 0.616     | 0.560 | 0.604     | 0.620 | 0.622     | 0.605 | 0.591     | 5.29  |           |      |           |       |           |       |           |       |           |  |  |
| 1,2-Dichloroethane         |           |       |           | 1.629 | 1.793     | 1.872 | 1.647     | 1.786 | 1.832     | 1.852 | 1.857     | 1.685 | 1.773     | 5.33  |           |      |           |       |           |       |           |       |           |  |  |
| 1,1,1-Trichloroethane      |           |       |           | 2.723 | 2.655     | 2.799 | 2.458     | 2.497 | 2.498     | 2.409 | 2.331     | 2.172 | 2.505     | 7.84  |           |      |           |       |           |       |           |       |           |  |  |
| Benzene                    |           |       |           | 2.092 | 2.244     | 2.260 | 2.412     | 2.215 | 2.363     | 2.357 | 2.404     | 2.351 | 2.300     | 4.57  |           |      |           |       |           |       |           |       |           |  |  |
| Carbon Tetrachloride       |           |       |           | 2.993 | 2.947     | 3.146 | 2.847     | 2.986 | 3.026     | 2.904 | 2.792     | 2.590 | 2.915     | 5.47  |           |      |           |       |           |       |           |       |           |  |  |
| Cyclohexane                |           |       |           |       | 0.902     | 0.869 | 1.006     | 0.985 | 1.091     | 1.153 | 1.175     | 1.131 | 1.039     | 11.17 |           |      |           |       |           |       |           |       |           |  |  |
| 1,2-dichloropropane        |           |       |           | 0.271 | 0.305     | 0.307 | 0.329     | 0.337 | 0.366     | 0.390 | 0.379     | 0.355 | 0.338     | 11.48 |           |      |           |       |           |       |           |       |           |  |  |
| Bromodichloromethane       |           |       |           | 0.999 | 0.931     | 1.023 | 0.961     | 1.051 | 1.064     | 1.072 | 0.999     | 0.898 | 1.000     | 6.05  |           |      |           |       |           |       |           |       |           |  |  |
| Trichloroethene            |           |       |           | 0.431 | 0.510     | 0.459 | 0.523     | 0.487 | 0.529     | 0.575 | 0.572     | 0.547 | 0.515     | 9.47  |           |      |           |       |           |       |           |       |           |  |  |
| 1,4-Dioxane                |           |       |           |       | 0.143     | 0.132 | 0.191     | 0.195 | 0.222     | 0.245 | 0.250     | 0.236 | 0.202     | 22.45 |           |      |           |       |           |       |           |       |           |  |  |
| Heptane                    |           |       |           | 0.310 | 0.361     | 0.355 | 0.416     | 0.416 | 0.445     | 0.462 | 0.451     | 0.415 | 0.403     | 12.63 |           |      |           |       |           |       |           |       |           |  |  |
| cis-1,3-Dichloropropene    |           |       |           | 0.363 | 0.462     | 0.473 | 0.578     | 0.617 | 0.715     | 0.791 | 0.786     | 0.735 | 0.613     | 25.33 |           |      |           |       |           |       |           |       |           |  |  |
| 4-Methyl-2-pentanone(MIBK) |           |       |           | 0.435 | 0.494     | 0.550 | 0.628     | 0.688 | 0.713     | 0.706 | 0.657     | 0.591 | 0.607     | 16.09 |           |      |           |       |           |       |           |       |           |  |  |
| trans-1,3-Dichloropropene  |           |       |           | 0.448 | 0.483     | 0.545 | 0.604     | 0.618 | 0.640     | 0.628 | 0.606     | 0.554 | 0.570     | 11.82 |           |      |           |       |           |       |           |       |           |  |  |
| 1,1,2-Trichloroethane      |           |       |           | 0.439 | 0.477     | 0.494 | 0.479     | 0.479 | 0.467     | 0.487 | 0.490     | 0.460 | 0.475     | 3.60  |           |      |           |       |           |       |           |       |           |  |  |
| Toluene                    |           |       |           | 0.738 | 0.807     | 0.812 | 1.046     | 1.100 | 1.209     | 1.267 | 1.207     | 1.123 | 1.034     | 19.21 |           |      |           |       |           |       |           |       |           |  |  |
| Dibromochloromethane       |           |       |           | 1.063 | 1.083     | 1.166 | 1.094     | 1.125 | 1.116     | 1.144 | 1.146     | 1.049 | 1.110     | 3.61  |           |      |           |       |           |       |           |       |           |  |  |
| 2-Hexanone(MBK)            |           |       |           |       | 0.448     | 0.458 | 0.578     | 0.677 | 0.774     | 0.857 | 0.839     | 0.753 | 0.673     | 24.08 |           |      |           |       |           |       |           |       |           |  |  |
| 1,2-Dibromoethane(EDB)     |           |       |           | 0.754 | 0.761     | 0.788 | 0.812     | 0.827 | 0.877     | 0.914 | 0.933     | 0.871 | 0.837     | 7.74  |           |      |           |       |           |       |           |       |           |  |  |
| Tetrachloroethene          |           |       |           | 0.672 | 0.678     | 0.676 | 0.745     | 0.728 | 0.759     | 0.799 | 0.810     | 0.755 | 0.736     | 7.05  |           |      |           |       |           |       |           |       |           |  |  |
| 1,1,1,2-Tetrachloroethane  |           |       |           | 0.970 | 1.025     | 1.060 | 1.016     | 0.962 | 0.948     | 0.924 | 0.902     | 0.877 | 0.965     | 6.24  |           |      |           |       |           |       |           |       |           |  |  |
| Chlorobenzene              |           |       |           | 1.542 | 1.660     | 1.593 | 1.637     | 1.569 | 1.646     | 1.658 | 1.600     | 1.560 | 1.607     | 2.78  |           |      |           |       |           |       |           |       |           |  |  |
| Ethylbenzene               |           |       |           | 1.842 | 2.147     | 2.393 | 2.540     | 2.470 | 2.532     | 2.474 | 2.345     | 2.213 | 2.328     | 9.78  |           |      |           |       |           |       |           |       |           |  |  |
| m,p-Xylene                 |           |       |           | 1.121 | 1.377     | 1.588 | 1.504     | 1.877 | 1.966     | 1.937 | 1.830     | 1.712 | 1.657     | 17.19 |           |      |           |       |           |       |           |       |           |  |  |
| Bromoform                  |           |       |           | 1.630 | 1.824     | 1.868 | 1.935     | 1.912 | 1.628     | 1.609 | 1.558     | 1.451 | 1.713     | 10.17 |           |      |           |       |           |       |           |       |           |  |  |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B  
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs  
Lab Code: Phoenix  
Instrument ID: CHEM24  
Heated Purge (Y/N): Y  
GC Column: \_\_\_\_\_

Client: CEG  
SDG No.: GCE81145  
Calibration Date From: 12/07/19 18:52  
Calibration Date Thru: 12/07/19 23:28  
Method File: 24AIR\_1207.M

Laboratory File Ids

| RRF1                               | 1207_03.D    | RRF2          | 1207_04.D    | RRF3        | 1207_05.D   | RRF4        | 1207_06.D | RRF5        | 1207_14.D | RRF6        | 1207_07.D   | RRF7        | 1207_13.D | RRF8     | 1207_08.D | RRF9 | 1207_09.D | RRF10 | 1207_15.D | RRF11 | 1207_10.D | RRF12 | 1207_11.D |  |  |
|------------------------------------|--------------|---------------|--------------|-------------|-------------|-------------|-----------|-------------|-----------|-------------|-------------|-------------|-----------|----------|-----------|------|-----------|-------|-----------|-------|-----------|-------|-----------|--|--|
| COMPOUND                           | RRF1<br>0.02 | RRF2<br>0.035 | RRF3<br>0.05 | RRF4<br>0.1 | RRF5<br>0.2 | RRF6<br>0.5 | RRF7<br>1 | RRF8<br>2.5 | RRF9<br>5 | RRF10<br>10 | RRF11<br>25 | RRF12<br>40 | —<br>RRF  | %<br>RSD |           |      |           |       |           |       |           |       |           |  |  |
| Styrene                            |              |               |              |             | 0.779       | 0.951       | 1.336     | 1.343       | 1.423     | 1.424       | 1.420       | 1.378       | 1.257     | 19.77    |           |      |           |       |           |       |           |       |           |  |  |
| 1,1,2,2-Tetrachloroethane          |              |               |              | 1.743       | 1.885       | 1.800       | 1.865     | 1.759       | 1.767     | 1.741       | 1.621       | 1.532       | 1.746     | 6.35     |           |      |           |       |           |       |           |       |           |  |  |
| o-Xylene                           |              |               |              |             | 1.223       | 1.307       | 1.819     | 1.963       | 2.281     | 2.418       | 2.244       | 2.116       | 1.921     | 23.24    |           |      |           |       |           |       |           |       |           |  |  |
| Isopropylbenzene                   |              |               |              | 1.354       | 1.647       | 1.767       | 2.463     | 2.635       | 2.878     | 2.950       | 2.782       | 2.581       | 2.340     | 25.28    |           |      |           |       |           |       |           |       |           |  |  |
| 4-Ethyltoluene                     |              |               |              | 1.585       | 2.012       | 2.335       | 2.778     | 2.728       | 2.744     | 2.720       | 2.590       | 2.394       | 2.432     | 16.68    |           |      |           |       |           |       |           |       |           |  |  |
| 1,3,5-Trimethylbenzene             |              |               |              | 1.328       | 1.639       | 1.846       | 2.235     | 2.246       | 2.359     | 2.389       | 2.335       | 2.190       | 2.063     | 18.09    |           |      |           |       |           |       |           |       |           |  |  |
| 1,2,4-Trimethylbenzene             |              |               |              | 1.281       | 1.453       | 1.883       | 2.299     | 2.343       | 2.442     | 2.433       | 2.285       | 2.117       | 2.060     | 20.90    |           |      |           |       |           |       |           |       |           |  |  |
| Benzyl chloride qfi                |              |               |              | 0.051       | 0.136       | 0.411       | 0.928     | 2.502       | 5.164     | 10.190      | 25.030      | 39.870      | Coef R2   | 1.00     |           |      |           |       |           |       |           |       |           |  |  |
| 1,3-Dichlorobenzene                |              |               |              | 1.355       | 1.813       | 1.909       | 1.860     | 1.744       | 1.764     | 1.673       | 1.587       | 1.434       | 1.682     | 11.29    |           |      |           |       |           |       |           |       |           |  |  |
| 1,4-Dichlorobenzene                |              |               |              | 1.181       | 1.529       | 1.586       | 1.701     | 1.693       | 1.809     | 1.812       | 1.788       | 1.609       | 1.634     | 12.11    |           |      |           |       |           |       |           |       |           |  |  |
| sec-Butylbenzene                   |              |               |              | 1.879       | 2.250       | 2.727       | 3.142     | 3.193       | 3.326     | 3.287       | 3.064       | 2.814       | 2.853     | 17.46    |           |      |           |       |           |       |           |       |           |  |  |
| 4-Isopropyltoluene                 |              |               |              | 1.280       | 1.610       | 2.083       | 2.474     | 2.655       | 2.820     | 2.844       | 2.642       | 2.392       | 2.311     | 23.75    |           |      |           |       |           |       |           |       |           |  |  |
| 1,2-Dichlorobenzene                |              |               |              | 1.174       | 1.684       | 1.630       | 1.626     | 1.637       | 1.704     | 1.647       | 1.565       | 1.387       | 1.562     | 11.05    |           |      |           |       |           |       |           |       |           |  |  |
| n-Butylbenzene                     |              |               |              | 1.210       | 1.630       | 1.967       | 2.212     | 2.363       | 2.399     | 2.295       | 2.045       | 1.826       | 1.994     | 19.56    |           |      |           |       |           |       |           |       |           |  |  |
| 1,2,4-Trichlorobenzene qfi         |              |               |              |             | 0.143       | 0.278       | 0.948     | 2.135       | 5.226     | 9.729       | 27.910      | 37.460      | Coef R2   | 1.00     |           |      |           |       |           |       |           |       |           |  |  |
| Hexachlorobutadiene qfi            |              |               |              |             | 0.227       | 0.521       | 1.108     | 2.704       | 5.291     | 9.336       | 23.800      |             | Coef R2   | 1.00     |           |      |           |       |           |       |           |       |           |  |  |
| 1,2-Dichlorotetrafluoroethane(sim) | 2.829        | 2.153         | 2.348        | 2.610       | 2.920       | 2.807       | 3.155     | 2.542       | 2.411     |             |             |             | 2.642     | 11.92    |           |      |           |       |           |       |           |       |           |  |  |
| Vinyl Chloride(sim)                |              | 0.846         | 0.899        | 1.019       | 1.207       | 1.140       | 1.237     | 1.001       | 0.962     |             |             |             | 1.039     | 13.72    |           |      |           |       |           |       |           |       |           |  |  |
| Bromomethane(sim)                  | 1.906        | 1.497         | 1.834        | 1.888       | 1.856       | 1.733       | 1.504     | 1.446       | 1.377     |             |             |             | 1.671     | 12.73    |           |      |           |       |           |       |           |       |           |  |  |
| Trichlorofluoromethane(sim)        | 6.005        | 4.099         | 4.417        | 4.809       | 4.439       | 4.869       | 3.550     | 3.815       | 3.402     |             |             |             | 4.378     | 18.26    |           |      |           |       |           |       |           |       |           |  |  |
| 1,1,1-Trichloroethane(sim)         | 2.641        | 2.040         | 2.238        | 2.617       | 2.558       | 2.665       | 2.371     | 2.397       | 2.370     |             |             |             | 2.433     | 8.58     |           |      |           |       |           |       |           |       |           |  |  |
| Carbon Tetrachloride(sim)          | 3.057        | 2.439         | 2.760        | 3.013       | 2.918       | 3.110       | 2.769     | 2.967       | 2.967     |             |             |             | 2.889     | 7.12     |           |      |           |       |           |       |           |       |           |  |  |
| 1,1-Dichloroethene(sim)            | 2.217        | 1.330         | 1.713        | 1.950       | 1.974       | 2.038       | 1.707     | 1.736       | 1.666     |             |             |             | 1.814     | 14.33    |           |      |           |       |           |       |           |       |           |  |  |
| Trichlorotrifluoroethane(sim) qfi  | 0.022        | 0.029         | 0.044        | 0.114       | 0.217       | 0.573       | 0.909     | 2.464       | 5.038     |             |             |             | Coef R2   | 1.00     |           |      |           |       |           |       |           |       |           |  |  |
| Trans-1,2-Dichloroethene(sim)      | 1.621        | 1.347         | 1.298        | 1.349       | 1.495       | 1.436       | 1.328     | 1.254       | 1.311     |             |             |             | 1.382     | 8.34     |           |      |           |       |           |       |           |       |           |  |  |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors



6B  
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs  
Lab Code: Phoenix  
Instrument ID: CHEM24  
Heated Purge (Y/N): Y  
GC Column: \_\_\_\_\_

Client: CEG  
SDG No.: GCE81145  
Calibration Date From: 12/07/19 18:52  
Calibration Date Thru: 12/07/19 23:28  
Method File: 24AIR\_1207.M

Laboratory File Ids

| RRF1                             | 1207_03.D | RRF2         | 1207_04.D     | RRF3         | 1207_05.D   | RRF4        | 1207_06.D   | RRF5      | 1207_14.D   | RRF6      | 1207_07.D   | RRF7        | 1207_13.D   | RRF8     | 1207_08.D | RRF9 | 1207_09.D | RRF10 | 1207_15.D | RRF11 | 1207_10.D | RRF12 | 1207_11.D |
|----------------------------------|-----------|--------------|---------------|--------------|-------------|-------------|-------------|-----------|-------------|-----------|-------------|-------------|-------------|----------|-----------|------|-----------|-------|-----------|-------|-----------|-------|-----------|
| COMPOUND                         |           | RRF1<br>0.02 | RRF2<br>0.035 | RRF3<br>0.05 | RRF4<br>0.1 | RRF5<br>0.2 | RRF6<br>0.5 | RRF7<br>1 | RRF8<br>2.5 | RRF9<br>5 | RRF10<br>10 | RRF11<br>25 | RRF12<br>40 | —<br>RRF | %<br>RSD  |      |           |       |           |       |           |       |           |
| 1,1-Dichloroethane(sim)          |           | 2.043        | 1.591         | 1.761        | 1.874       | 1.948       | 1.900       | 1.866     | 1.758       | 1.812     |             |             |             | 1.839    | 7.04      |      |           |       |           |       |           |       |           |
| Cis-1,2-Dichloroethene(sim)      |           | 1.178        | 1.036         | 1.005        | 1.144       | 1.265       | 1.212       | 1.324     | 1.232       | 1.363     |             |             |             | 1.195    | 10.06     |      |           |       |           |       |           |       |           |
| Chloroform(sim)                  |           | 2.568        | 2.018         | 2.239        | 2.442       | 2.468       | 2.542       | 2.413     | 2.512       | 2.548     |             |             |             | 2.417    | 7.45      |      |           |       |           |       |           |       |           |
| 1,2-Dichloroethane(sim)          |           | 2.044        | 1.202         | 1.541        | 1.566       | 1.734       | 1.783       | 1.589     | 1.714       | 1.739     |             |             |             | 1.657    | 13.74     |      |           |       |           |       |           |       |           |
| 1,2-dichloropropane(sim)         |           | 0.283        | 0.166         | 0.228        | 0.242       | 0.270       | 0.275       | 0.299     | 0.300       | 0.329     |             |             |             | 0.266    | 18.16     |      |           |       |           |       |           |       |           |
| Bromodichloromethane(sim)        |           | 0.916        | 0.720         | 0.799        | 0.889       | 0.898       | 0.976       | 0.927     | 1.001       | 1.011     |             |             |             | 0.904    | 10.47     |      |           |       |           |       |           |       |           |
| Trichloroethene(sim)             |           | 0.486        | 0.366         | 0.418        | 0.385       | 0.454       | 0.411       | 0.474     | 0.434       | 0.475     |             |             |             | 0.434    | 9.67      |      |           |       |           |       |           |       |           |
| 1,4-Dioxane(sim) qfi             |           |              | 0.023         | 0.041        | 0.081       | 0.191       | 0.428       | 1.124     | 2.503       | 4.988     |             |             |             | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |
| cis-1,3-Dichloropropene(sim) qfi |           | 0.012        | 0.022         | 0.042        | 0.077       | 0.195       | 0.480       | 1.096     | 2.474       |           |             |             |             | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |
| 1,1,2-Trichloroethane(sim)       |           | 0.439        | 0.365         | 0.390        | 0.436       | 0.470       | 0.482       | 0.479     | 0.461       | 0.465     |             |             |             | 0.443    | 9.22      |      |           |       |           |       |           |       |           |
| Dibromochloromethane(sim)        |           | 0.905        | 0.709         | 0.858        | 0.928       | 0.973       | 1.045       | 0.990     | 1.001       | 1.003     |             |             |             | 0.935    | 10.93     |      |           |       |           |       |           |       |           |
| 1,2-Dibromoethane(EDB)(sim)      |           | 0.664        | 0.546         | 0.618        | 0.691       | 0.755       | 0.769       | 0.790     | 0.787       | 0.834     |             |             |             | 0.717    | 13.09     |      |           |       |           |       |           |       |           |
| Tetrachloroethene(sim)           |           | 0.471        | 0.389         | 0.477        | 0.600       | 0.609       | 0.604       | 0.674     | 0.648       | 0.681     | 0.714       |             |             | 0.587    | 18.16     |      |           |       |           |       |           |       |           |
| Bromoform(sim)                   |           | 0.904        | 1.080         | 1.432        | 1.452       | 1.651       | 1.708       | 1.786     | 1.751       | 1.509     |             |             |             | 1.475    | 20.68     |      |           |       |           |       |           |       |           |
| 1,1,1,2-Tetrachloroethane(sim)   |           | 0.927        | 0.755         | 0.868        | 0.966       | 1.007       | 1.035       | 1.004     | 0.955       | 0.954     |             |             |             | 0.941    | 9.06      |      |           |       |           |       |           |       |           |
| m,p-Xylene(sim) qfi              |           |              | 0.041         | 0.069        | 0.136       | 0.331       | 0.943       | 2.194     | 5.122       | 9.926     |             |             |             | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |
| 1,1,2,2-Tetrachloroethane(sim)   |           | 1.679        | 1.321         | 1.464        | 1.650       | 1.795       | 1.767       | 1.846     | 1.730       | 1.749     |             |             |             | 1.667    | 10.18     |      |           |       |           |       |           |       |           |
| Benzyl chloride(sim) qfi         |           | 0.011        | 0.020         | 0.029        | 0.079       | 0.183       | 0.492       | 1.039     | 2.567       | 4.972     |             |             |             | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |
| 1,3-Dichlorobenzene(sim)         |           |              | 1.133         | 1.237        | 1.460       | 1.851       | 1.947       | 1.914     | 1.791       | 1.795     |             |             |             | 1.641    | 19.43     |      |           |       |           |       |           |       |           |
| 1,4-Dichlorobenzene(sim) q       |           |              | 0.022         | 0.033        | 0.075       | 0.192       | 0.493       | 1.048     | 2.478       | 5.003     |             |             |             | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |
| sec-Butylbenzene(sim) qfi        |           |              |               |              | 0.063       | 0.158       | 0.475       | 1.063     | 2.578       | 4.960     |             |             |             | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |
| 4-Isopropyltoluene(sim) qfi      |           |              |               | 0.025        | 0.059       | 0.148       | 0.468       | 1.078     | 2.613       | 4.948     |             |             |             | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |
| 1,2-Dichlorobenzene(sim) qfi     |           | 0.016        | 0.022         | 0.036        | 0.082       | 0.211       | 0.522       | 1.023     | 2.499       | 4.995     |             |             |             | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |
| n-Butylbenzene(sim) qfi          |           |              | 0.016         | 0.023        | 0.061       | 0.162       | 0.482       | 1.064     | 2.634       | 4.937     |             |             |             | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |
| 1,2,4-Trichlorobenzene(sim) q    |           | 0.008        | 0.011         | 0.017        | 0.043       | 0.196       | 0.375       | 1.181     | 2.441       | 5.008     |             |             |             | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Phoenix Environmental Laboratories, Inc.

## 6B

Client: CEG

SDG No.: GCE81145

Calibration Date From: 12/07/19 18:52

Calibration Date Thru: 12/07/19 23:28

Method File: 24AIR 1207.M

|      |                  |      |                  |      |                  |       |                  |       |                  |       |                  |
|------|------------------|------|------------------|------|------------------|-------|------------------|-------|------------------|-------|------------------|
| RRF1 | <u>1207_03.D</u> | RRF2 | <u>1207_04.D</u> | RRF3 | <u>1207_05.D</u> | RRF4  | <u>1207_06.D</u> | RRF5  | <u>1207_14.D</u> | RRF6  | <u>1207_07.D</u> |
| RRF7 | <u>1207_13.D</u> | RRF8 | <u>1207_08.D</u> | RRF9 | <u>1207_09.D</u> | RRF10 | <u>1207_15.D</u> | RRF11 | <u>1207_10.D</u> | RRF12 | <u>1207_11.D</u> |

[illegible]

(#) The maximum %RSD was not met for this compound

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Phoenix Environmental Laboratories, Inc.

Page 248 of 384

# FORM VI AIR

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_03.D  
 Acq On : 7 Dec 2019 4:38 pm  
 Operator : Keith  
 Client ID : ICAL 0.02  
 Lab ID : 0.02 ppbv  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 09 09:44:22 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:43:48 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.475  | 130  | 403678   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.402  | 114  | 974253   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.967 | 82   | 523019   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.478  | 130  | 420237   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.398  | 114  | 1093388  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.970 | 82   | 567751   | 10.000 | ng    | 0.00     |

System Monitoring Compounds

|                          |        |       |          |          |      |        |
|--------------------------|--------|-------|----------|----------|------|--------|
| 62) % Bromofluorobenzene | 12.445 | 95    | 720379   | 8.949    | ppbv | 0.00   |
| Spiked Amount            | 10.000 | Range | 70 - 130 | Recovery | =    | 89.50% |

| Target Compounds              | R.T.   | QIon | Response | Conc  | Units | Qvalue |
|-------------------------------|--------|------|----------|-------|-------|--------|
| 2) Propylene                  | 1.464  | 41   | 2517     | 0.065 | ppbv# | 68     |
| 3) Dichlorodifluoromethane    | 1.499  | 101  | 415      | 0.023 | ppbv# | 80     |
| 4) Chloromethane              | 1.643  | 50   | 1648     | 0.048 | ppbv  | 86     |
| 5) 1,2-Dichlorotetrafluor...  | 1.608  | 135  | 2378     | 0.023 | ppbv  | 95     |
| 6) Vinyl Chloride             | 1.711  | 62   | 1145     | 0.029 | ppbv  | 68     |
| 7) 1,3-Butadiene              | 1.732  | 54   | 580      | 0.025 | ppbv# | 57     |
| 8) Bromomethane               | 1.965  | 94   | 2700     | 0.043 | ppbv# | 50     |
| 9) Chloroethane               | 2.081  | 64   | 988      | 0.045 | ppbv  | 82     |
| 10) Ethanol                   | 2.684  | 45   | 1027     | 0.095 | ppbv# | 72     |
| 12) Acetone                   | 3.354  | 43   | 6435     | 0.101 | ppbv  | 98     |
| 13) Trichlorofluoromethane    | 2.204  | 101  | 4498     | 0.030 | ppbv  | 92     |
| 14) Isopropylalcohol          | 3.306  | 45   | 2517     | 0.041 | ppbv  | 91     |
| 15) Acrylonitrile             | 4.346  | 53   | 59       | 0.003 | ppbv# | 1      |
| 16) 1,1-Dichloroethene        | 2.663  | 61   | 1863     | 0.025 | ppbv  | 93     |
| 17) Methylene Chloride        | 3.279  | 49   | 2938     | 0.064 | ppbv  | 96     |
| 20) Carbon Disulfide          | 2.670  | 76   | 4903     | 0.039 | ppbv# | 94     |
| 21) Trichlorotrifluoroethane  | 2.731  | 101  | 2646     | 0.025 | ppbv  | 92     |
| 22) Trans-1,2-Dichloroethene  | 3.477  | 61   | 1362     | 0.024 | ppbv# | 68     |
| 23) 1,1-Dichloroethane        | 4.283  | 63   | 1498     | 0.021 | ppbv  | 82     |
| 24) Methyl tert-butyl ethe... | 3.675  | 73   | 1569     | 0.017 | ppbv# | 64     |
| 25) Methyl Ethyl Ketone       | 6.152  | 43   | 1085     | 0.016 | ppbv# | 95     |
| 26) Cis-1,2-Dichloroethene    | 5.172  | 61   | 1064     | 0.019 | ppbv# | 69     |
| 27) Hexane                    | 3.614  | 57   | 1373     | 0.031 | ppbv# | 57     |
| 28) Chloroform                | 5.655  | 83   | 1990     | 0.020 | ppbv  | 91     |
| 29) Ethyl acetate             | 5.965  | 43   | 976      | 0.015 | ppbv  | 100    |
| 30) Tetrahydrofuran           | 5.907  | 42   | 315      | 0.013 | ppbv# | 59     |
| 31) 1,2-Dichloroethane        | 6.758  | 62   | 1622     | 0.023 | ppbv# | 71     |
| 32) 1,1,1-Trichloroethane     | 5.914  | 97   | 2243     | 0.022 | ppbv# | 78     |
| 33) Benzene                   | 6.463  | 78   | 2102     | 0.023 | ppbv  | 96     |
| 34) Carbon Tetrachloride      | 5.806  | 117  | 2439     | 0.021 | ppbv  | 89     |
| 35) Cyclohexane               | 5.468  | 56   | 455      | 0.011 | ppbv# | 46     |
| 37) 1,2-dichloropropane       | 7.977  | 63   | 475      | 0.014 | ppbv# | 83     |
| 38) Bromodichloromethane      | 8.107  | 83   | 1874     | 0.019 | ppbv  | 94     |
| 39) Trichloroethene           | 7.326  | 130  | 906      | 0.018 | ppbv# | 38     |
| 41) 1,4-Dioxane               | 8.384  | 88   | 107      | 0.005 | ppbv# | 20     |
| 43) Heptane                   | 6.566  | 43   | 611      | 0.016 | ppbv# | 60     |
| 44) cis-1,3-Dichloropropene   | 8.911  | 75   | 627      | 0.010 | ppbv# | 51     |
| 45) 4-Methyl-2-pentanone(M... | 9.698  | 43   | 719      | 0.012 | ppbv# | 90     |
| 46) trans-1,3-Dichloropropene | 9.727  | 75   | 651      | 0.012 | ppbv# | 78     |
| 47) 1,1,2-Trichloroethane     | 9.908  | 97   | 1041     | 0.023 | ppbv# | 79     |
| 48) Toluene                   | 9.193  | 91   | 1337     | 0.013 | ppbv# | 86     |
| 49) Dibromochloromethane      | 10.095 | 129  | 1978     | 0.018 | ppbv# | 89     |
| 50) 2-Hexanone(MBK)           | 10.699 | 43   | 1253     | 0.019 | ppbv# | 95     |
| 51) 1,2-Dibromoethane(EDB)    | 10.326 | 107  | 1379     | 0.017 | ppbv  | 95     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_03.D  
 Acq On : 7 Dec 2019 4:38 pm  
 Operator : Keith  
 Client ID : ICAL 0.02  
 Lab ID : 0.02 ppbv  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 09 09:44:22 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Dec 09 09:43:48 2019  
 Response via : Initial Calibration

|      | Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|----------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene          | 9.655  | 166  | 1216     | 0.017 | ppbv  | 97       |
| 54)  | 1,1,1,2-Tetrachloroethane  | 11.090 | 131  | 954      | 0.019 | ppbv# | 93       |
| 55)  | Chlorobenzene              | 10.981 | 112  | 1487     | 0.018 | ppbv# | 12       |
| 56)  | Ethylbenzene               | 11.070 | 91   | 1941     | 0.016 | ppbv  | 86       |
| 57)  | m,p-Xylene                 | 11.248 | 91   | 2750     | 0.032 | ppbv# | 93       |
| 58)  | Bromoform                  | 11.804 | 173  | 1437     | 0.016 | ppbv  | 92       |
| 59)  | Styrene                    | 11.818 | 104  | 720      | 0.011 | ppbv# | 36       |
| 60)  | 1,1,2,2-Tetrachloroethane  | 12.737 | 83   | 2004     | 0.022 | ppbv  | 99       |
| 61)  | o-Xylene                   | 11.742 | 91   | 955      | 0.010 | ppbv# | 82       |
| 64)  | Isopropylbenzene           | 12.146 | 105  | 1216     | 0.010 | ppbv# | 83       |
| 66)  | 4-Ethyltoluene             | 12.782 | 105  | 1551     | 0.012 | ppbv# | 77       |
| 67)  | 1,3,5-Trimethylbenzene     | 12.899 | 105  | 1416     | 0.013 | ppbv# | 92       |
| 68)  | 1,2,4-Trimethylbenzene     | 13.360 | 105  | 1227     | 0.011 | ppbv# | 84       |
| 70)  | Benzyl chloride            | 14.041 | 91   | 1019     | 0.008 | ppbv# | 82       |
| 71)  | 1,3-Dichlorobenzene        | 13.671 | 146  | 1443     | 0.016 | ppbv# | 91       |
| 72)  | 1,4-Dichlorobenzene        | 13.762 | 146  | 1149     | 0.013 | ppbv  | 97       |
| 73)  | sec-Butylbenzene           | 13.476 | 105  | 1553     | 0.010 | ppbv# | 94       |
| 74)  | 4-Isopropyltoluene         | 13.652 | 119  | 1359     | 0.011 | ppbv# | 86       |
| 75)  | 1,2-Dichlorobenzene        | 14.138 | 146  | 1310     | 0.016 | ppbv# | 82       |
| 76)  | n-Butylbenzene             | 14.041 | 91   | 1019     | 0.010 | ppbv# | 75       |
| 77)  | 1,2,4-Trichlorobenzene     | 15.304 | 180  | 263      | 0.004 | ppbv# | 84       |
| 79)  | Hexachlorobutadiene        | 15.309 | 225  | 1932     | 0.022 | ppbv  | 98       |
| 81)  | 1,2-Dichlorotetrafluor...  | 1.608  | 135  | 2378     | 0.021 | ppbv  | 95       |
| 82)  | Vinyl Chloride(sim)        | 1.714  | 62   | 949      | 0.022 | ppbv  | 90       |
| 83)  | Bromomethane(sim)          | 1.974  | 94   | 1602m    | 0.023 | ppbv  | 64       |
| 84)  | Trichlorofluoromethane...  | 2.207  | 101  | 5047     | 0.027 | ppbv  | 93       |
| 85)  | 1,1,1-Trichloroethane(sim) | 5.917  | 97   | 2220m    | 0.022 | ppbv  | 81       |
| 86)  | Carbon Tetrachloride(sim)  | 5.816  | 117  | 2569     | 0.021 | ppbv  | 98       |
| 87)  | 1,1-Dichloroethene(sim)    | 2.663  | 61   | 1863     | 0.024 | ppbv# | 87       |
| 88)  | Trichlorotrifluoroetha...  | 2.727  | 101  | 2751     | 0.022 | ppbv  | 98       |
| 89)  | Trans-1,2-Dichloroethe...  | 3.477  | 61   | 1362     | 0.023 | ppbv# | 68       |
| 90)  | 1,1-Dichloroethane(sim)    | 4.281  | 63   | 1717     | 0.022 | ppbv  | 99       |
| 91)  | Cis-1,2-Dichloroethene...  | 5.172  | 61   | 990      | 0.020 | ppbv# | 85       |
| 92)  | Chloroform(sim)            | 5.672  | 83   | 2158     | 0.021 | ppbv  | 99       |
| 93)  | 1,2-Dichloroethane(sim)    | 6.761  | 62   | 1718m    | 0.025 | ppbv  | 13       |
| 95)  | 1,2-dichloropropane(sim)   | 7.973  | 63   | 619m     | 0.021 | ppbv  | 83       |
| 96)  | Bromodichloromethane(sim)  | 8.117  | 83   | 2004     | 0.020 | ppbv  | 99       |
| 97)  | Trichloroethene(sim)       | 7.329  | 130  | 1062m    | 0.022 | ppbv  | 1        |
| 98)  | 1,4-Dioxane(sim)           | 8.395  | 88   | 325m     | 0.019 | ppbv  | 49       |
| 99)  | cis-1,3-Dichloropropen...  | 8.911  | 75   | 561      | 0.013 | ppbv# | 53       |
| 100) | 1,1,2-Trichloroethane(...) | 9.903  | 97   | 959      | 0.020 | ppbv  | 97       |
| 101) | Dibromochloromethane(sim)  | 10.095 | 129  | 1978     | 0.019 | ppbv  | 92       |
| 102) | 1,2-Dibromoethane(EDB)...  | 10.322 | 107  | 1453     | 0.019 | ppbv  | 96       |
| 103) | Tetrachloroethene(sim)     | 9.648  | 166  | 1030     | 0.016 | ppbv# | 76       |
| 105) | Bromoform(sim)             | 11.804 | 173  | 1026     | 0.012 | ppbv# | 1        |
| 106) | 1,1,1,2-Tetrachloroeth...  | 11.093 | 131  | 1053     | 0.020 | ppbv  | 99       |
| 107) | m,p-Xylene(sim)            | 11.248 | 91   | 2750     | 0.032 | ppbv# | 93       |
| 108) | 1,1,2,2-Tetrachloroeth...  | 12.740 | 83   | 1906     | 0.020 | ppbv  | 99       |
| 111) | Benzyl chloride(sim)       | 14.002 | 91   | 773      | 0.011 | ppbv  | 65       |
| 112) | 1,3-Dichlorobenzene(sim)   | 13.668 | 146  | 1542     | 0.017 | ppbv  | 100      |
| 113) | 1,4-Dichlorobenzene(sim)   | 13.762 | 146  | 1018     | 0.012 | ppbv  | 91       |
| 114) | sec-Butylbenzene(sim)      | 13.479 | 105  | 1965     | 0.012 | ppbv  | 99       |
| 115) | 4-Isopropyltoluene(sim)    | 13.652 | 119  | 1359     | 0.012 | ppbv# | 86       |
| 116) | 1,2-Dichlorobenzene(sim)   | 14.135 | 146  | 1409     | 0.016 | ppbv  | 100      |
| 117) | n-Butylbenzene(sim)        | 14.041 | 91   | 1019     | 0.010 | ppbv  | 75       |
| 118) | 1,2,4-Trichlorobenzene...  | 15.307 | 180  | 412      | 0.008 | ppbv  | 96       |
| 119) | Hexachlorobutadiene(sim)   | 15.309 | 225  | 1781     | 0.021 | ppbv# | 86       |

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_03.D  
 Acq On : 7 Dec 2019 4:38 pm  
 Operator : Keith  
 Client ID : ICAL 0.02  
 Lab ID : 0.02 ppbV  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 09 09:44:22 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:43:48 2019  
 Response via : Initial Calibration

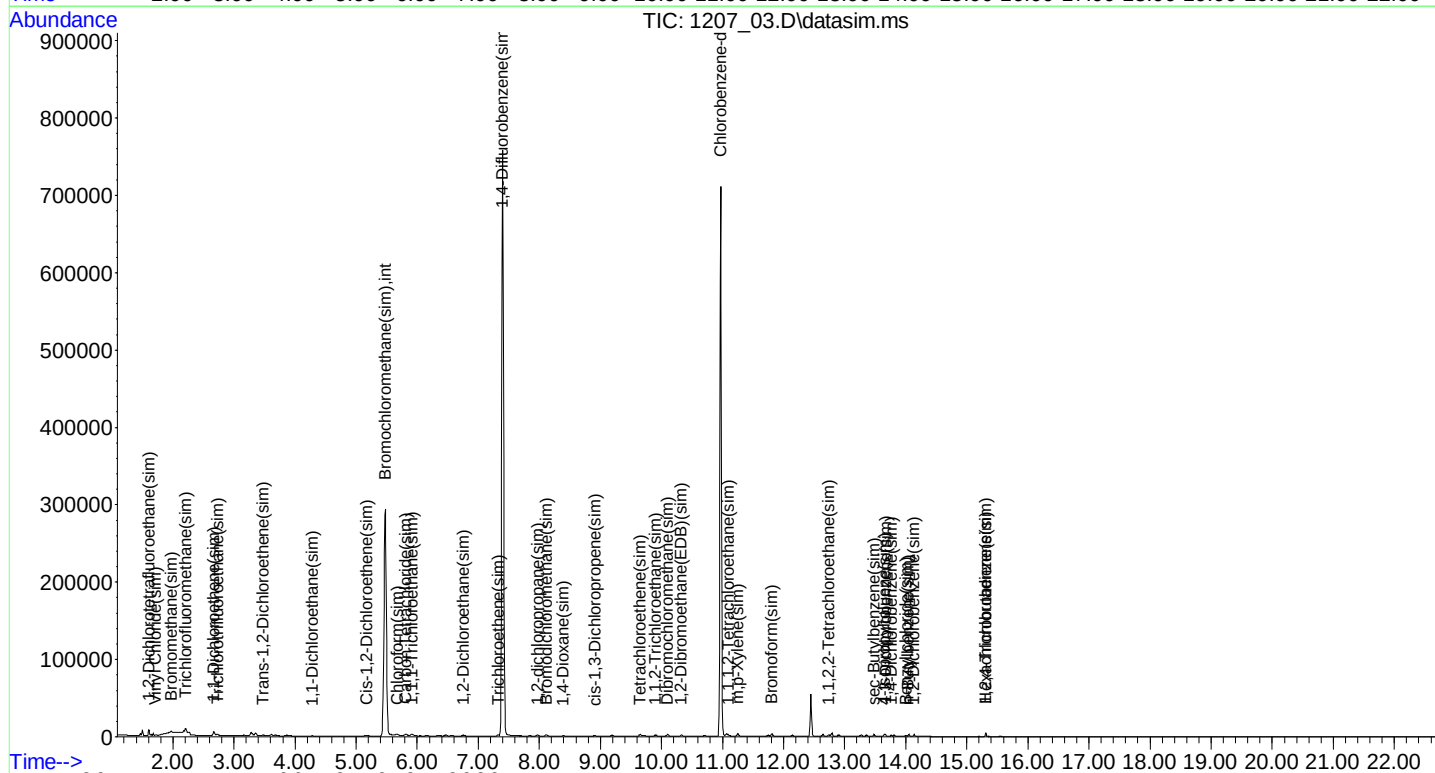
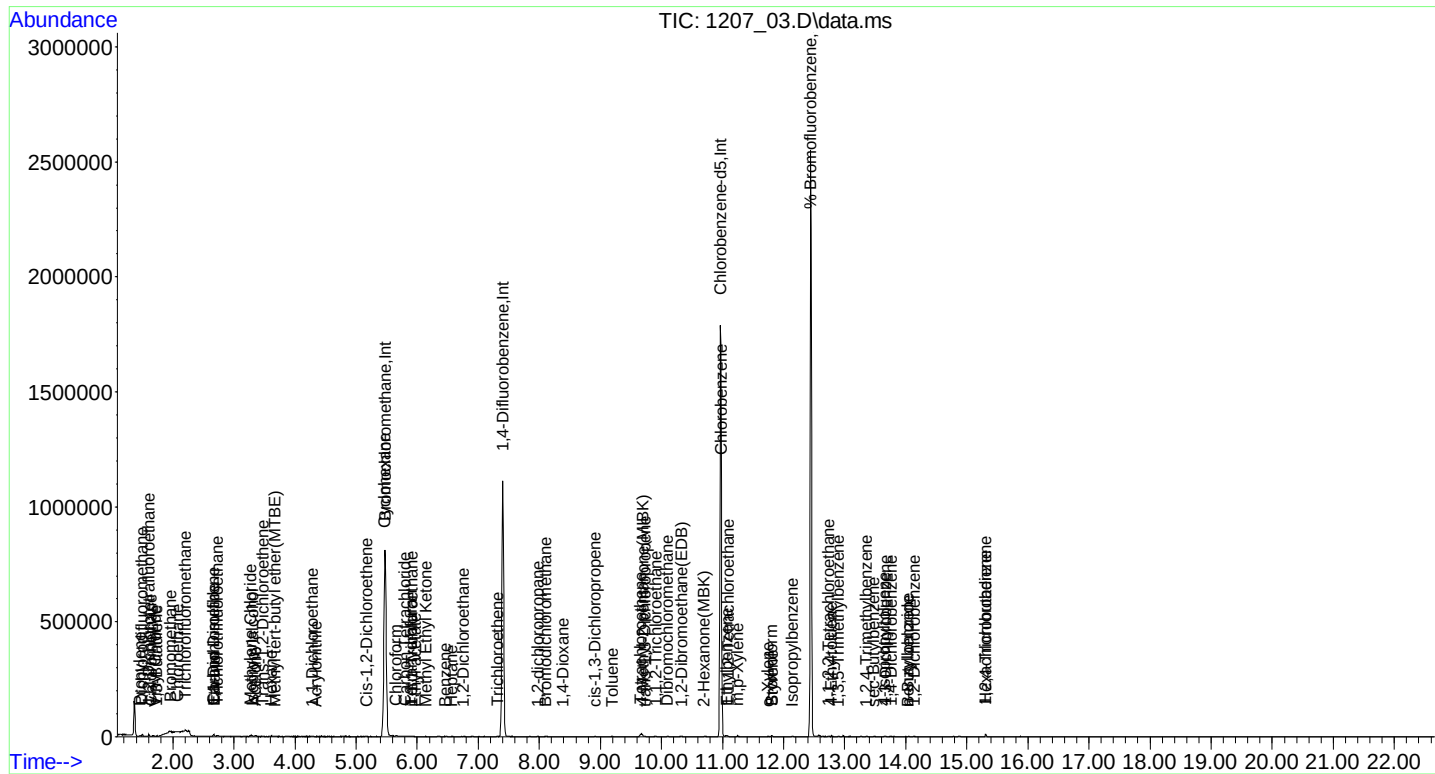
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

```
Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
Data File : 1207_03.D  
Acq On : 7 Dec 2019 4:38 pm  
Operator : Keith  
Client ID : ICAL 0.02  
Lab ID : 0.02 ppbV  
ALS Vial : 3 Sample Multiplier: 1
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Quant Time: Dec 09 09:44:22 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Mon Dec 09 09:43:48 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_04.D  
 Acq On : 7 Dec 2019 5:10 pm  
 Operator : Keith  
 Client ID : ICAL 0.035  
 Lab ID : 0.035 ppbV  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 09:43:36 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:43:11 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.471  | 130  | 404872   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.398  | 114  | 989964   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.970 | 82   | 517260   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.473  | 130  | 423274   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.401  | 114  | 1097836  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.966 | 82   | 565008   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

|                          |        |       |          |          |      |        |
|--------------------------|--------|-------|----------|----------|------|--------|
| 62) % Bromofluorobenzene | 12.448 | 95    | 720618   | 9.051    | ppbv | 0.00   |
| Spiked Amount            | 10.000 | Range | 70 - 130 | Recovery | =    | 90.50% |

## Target Compounds

|                               |        |     |      |       |       | Qvalue |
|-------------------------------|--------|-----|------|-------|-------|--------|
| 2) Propylene                  | 1.465  | 41  | 1895 | 0.049 | ppbv# | 70     |
| 3) Dichlorodifluoromethane    | 1.499  | 101 | 637  | 0.036 | ppbv# | 41     |
| 4) Chloromethane              | 1.643  | 50  | 1792 | 0.052 | ppbv  | 81     |
| 5) 1,2-Dichlorotetrafluor...  | 1.602  | 135 | 3189 | 0.031 | ppbv  | 98     |
| 6) Vinyl Chloride             | 1.718  | 62  | 1251 | 0.032 | ppbv  | 95     |
| 7) 1,3-Butadiene              | 1.739  | 54  | 637  | 0.027 | ppbv# | 65     |
| 8) Bromomethane               | 1.972  | 94  | 2160 | 0.034 | ppbv# | 64     |
| 9) Chloroethane               | 2.081  | 64  | 1527 | 0.070 | ppbv  | 65     |
| 10) Ethanol                   | 2.684  | 45  | 1277 | 0.118 | ppbv  | 90     |
| 12) Acetone                   | 3.354  | 43  | 5127 | 0.080 | ppbv  | 93     |
| 13) Trichlorofluoromethane    | 2.205  | 101 | 5972 | 0.040 | ppbv# | 91     |
| 14) Isopropylalcohol          | 3.293  | 45  | 2600 | 0.042 | ppbv# | 73     |
| 15) Acrylonitrile             | 4.335  | 53  | 61   | 0.003 | ppbv# | 1      |
| 16) 1,1-Dichloroethene        | 2.670  | 61  | 2035 | 0.028 | ppbv  | 97     |
| 17) Methylene Chloride        | 3.272  | 49  | 3031 | 0.066 | ppbv  | 96     |
| 20) Carbon Disulfide          | 2.663  | 76  | 5865 | 0.046 | ppbv# | 88     |
| 21) Trichlorotrifluoroethane  | 2.718  | 101 | 3549 | 0.034 | ppbv  | 90     |
| 22) Trans-1,2-Dichloroethene  | 3.470  | 61  | 1996 | 0.035 | ppbv  | 89     |
| 23) 1,1-Dichloroethane        | 4.281  | 63  | 1964 | 0.027 | ppbv  | 83     |
| 24) Methyl tert-butyl ethe... | 3.662  | 73  | 2247 | 0.024 | ppbv# | 61     |
| 25) Methyl Ethyl Ketone       | 6.141  | 43  | 2000 | 0.030 | ppbv# | 87     |
| 26) Cis-1,2-Dichloroethene    | 5.146  | 61  | 788  | 0.014 | ppbv# | 85     |
| 27) Hexane                    | 3.600  | 57  | 1667 | 0.038 | ppbv# | 82     |
| 28) Chloroform                | 5.672  | 83  | 2857 | 0.029 | ppbv  | 95     |
| 29) Ethyl acetate             | 5.961  | 43  | 1595 | 0.025 | ppbv  | 100    |
| 30) Tetrahydrofuran           | 5.910  | 42  | 356  | 0.015 | ppbv# | 48     |
| 31) 1,2-Dichloroethane        | 6.754  | 62  | 1781 | 0.025 | ppbv# | 79     |
| 32) 1,1,1-Trichloroethane     | 5.918  | 97  | 3022 | 0.030 | ppbv  | 97     |
| 33) Benzene                   | 6.466  | 78  | 3268 | 0.035 | ppbv# | 86     |
| 34) Carbon Tetrachloride      | 5.809  | 117 | 3616 | 0.031 | ppbv  | 90     |
| 35) Cyclohexane               | 5.478  | 56  | 1043 | 0.025 | ppbv# | 4      |
| 37) 1,2-dichloropropane       | 7.966  | 63  | 636  | 0.019 | ppbv# | 76     |
| 38) Bromodichloromethane      | 8.110  | 83  | 2620 | 0.026 | ppbv  | 93     |
| 39) Trichloroethene           | 7.322  | 130 | 1572 | 0.031 | ppbv# | 80     |
| 41) 1,4-Dioxane               | 8.388  | 88  | 279  | 0.014 | ppbv# | 32     |
| 43) Heptane                   | 6.576  | 43  | 751  | 0.019 | ppbv# | 86     |
| 44) cis-1,3-Dichloropropene   | 8.908  | 75  | 994  | 0.016 | ppbv# | 73     |
| 45) 4-Methyl-2-pentanone(M... | 9.695  | 43  | 1310 | 0.022 | ppbv# | 74     |
| 46) trans-1,3-Dichloropropene | 9.723  | 75  | 1163 | 0.021 | ppbv# | 92     |
| 47) 1,1,2-Trichloroethane     | 9.904  | 97  | 1391 | 0.030 | ppbv  | 93     |
| 48) Toluene                   | 9.189  | 91  | 1974 | 0.019 | ppbv# | 97     |
| 49) Dibromochloromethane      | 10.099 | 129 | 2726 | 0.025 | ppbv  | 93     |
| 50) 2-Hexanone(MBK)           | 10.716 | 43  | 1117 | 0.017 | ppbv# | 33     |
| 51) 1,2-Dibromoethane(EDB)    | 10.323 | 107 | 1899 | 0.023 | ppbv  | 97     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_04.D  
 Acq On : 7 Dec 2019 5:10 pm  
 Operator : Keith  
 Client ID : ICAL 0.035  
 Lab ID : 0.035 ppbV  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 09:43:36 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Dec 09 09:43:11 2019  
 Response via : Initial Calibration

|      | Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|----------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene          | 9.644  | 166  | 1753     | 0.024 | ppbv  | 92       |
| 54)  | 1,1,1,2-Tetrachloroethane  | 11.087 | 131  | 1567     | 0.031 | ppbv  | 88       |
| 55)  | Chlorobenzene              | 10.991 | 112  | 2279     | 0.027 | ppbv# | 23       |
| 56)  | Ethylbenzene               | 11.066 | 91   | 2800     | 0.023 | ppbv  | 89       |
| 57)  | m,p-Xylene                 | 11.251 | 91   | 3544     | 0.041 | ppbv  | 98       |
| 58)  | Bromoform                  | 11.800 | 173  | 2359     | 0.027 | ppbv  | 93       |
| 59)  | Styrene                    | 11.814 | 104  | 805      | 0.012 | ppbv# | 74       |
| 60)  | 1,1,2,2-Tetrachloroethane  | 12.740 | 83   | 2636     | 0.029 | ppbv# | 96       |
| 61)  | o-Xylene                   | 11.752 | 91   | 1503     | 0.015 | ppbv  | 95       |
| 64)  | Isopropylbenzene           | 12.143 | 105  | 1871     | 0.015 | ppbv# | 91       |
| 66)  | 4-Ethyltoluene             | 12.785 | 105  | 2302     | 0.018 | ppbv  | 98       |
| 67)  | 1,3,5-Trimethylbenzene     | 12.896 | 105  | 1835     | 0.017 | ppbv# | 90       |
| 68)  | 1,2,4-Trimethylbenzene     | 13.356 | 105  | 1391     | 0.013 | ppbv  | 90       |
| 70)  | Benzyl chloride            | 14.051 | 91   | 1607     | 0.013 | ppbv# | 89       |
| 71)  | 1,3-Dichlorobenzene        | 13.668 | 146  | 1971     | 0.023 | ppbv  | 97       |
| 72)  | 1,4-Dichlorobenzene        | 13.759 | 146  | 1836     | 0.022 | ppbv# | 93       |
| 73)  | sec-Butylbenzene           | 13.480 | 105  | 2855     | 0.019 | ppbv# | 81       |
| 74)  | 4-Isopropyltoluene         | 13.648 | 119  | 2268     | 0.019 | ppbv# | 90       |
| 75)  | 1,2-Dichlorobenzene        | 14.135 | 146  | 2072     | 0.026 | ppbv# | 75       |
| 76)  | n-Butylbenzene             | 14.051 | 91   | 1607     | 0.016 | ppbv  | 90       |
| 77)  | 1,2,4-Trichlorobenzene     | 15.306 | 180  | 499      | 0.008 | ppbv  | 85       |
| 79)  | Hexachlorobutadiene        | 15.311 | 225  | 2429     | 0.028 | ppbv  | 97       |
| 81)  | 1,2-Dichlorotetrafluor...  | 1.602  | 135  | 3189     | 0.029 | ppbv  | 98       |
| 82)  | Vinyl Chloride(sim)        | 1.714  | 62   | 1253     | 0.028 | ppbv  | 98       |
| 83)  | Bromomethane(sim)          | 1.972  | 94   | 2218     | 0.031 | ppbv# | 55       |
| 84)  | Trichlorofluoromethane...  | 2.207  | 101  | 6073     | 0.033 | ppbv  | 98       |
| 85)  | 1,1,1-Trichloroethane(sim) | 5.918  | 97   | 3022     | 0.029 | ppbv# | 96       |
| 86)  | Carbon Tetrachloride(sim)  | 5.812  | 117  | 3613     | 0.030 | ppbv  | 99       |
| 87)  | 1,1-Dichloroethene(sim)    | 2.670  | 61   | 1970     | 0.026 | ppbv# | 90       |
| 88)  | Trichlorotrifluoroetha...  | 2.728  | 101  | 3553     | 0.029 | ppbv  | 99       |
| 89)  | Trans-1,2-Dichloroethe...  | 3.470  | 61   | 1996     | 0.034 | ppbv  | 89       |
| 90)  | 1,1-Dichloroethane(sim)    | 4.279  | 63   | 2357     | 0.030 | ppbv  | 99       |
| 91)  | Cis-1,2-Dichloroethene...  | 5.164  | 61   | 1535m    | 0.030 | ppbv  | 76       |
| 92)  | Chloroform(sim)            | 5.661  | 83   | 2989     | 0.029 | ppbv  | 98       |
| 93)  | 1,2-Dichloroethane(sim)    | 6.754  | 62   | 1781     | 0.025 | ppbv  | 87       |
| 95)  | 1,2-dichloropropane(sim)   | 7.966  | 63   | 636      | 0.022 | ppbv# | 76       |
| 96)  | Bromodichloromethane(sim)  | 8.113  | 83   | 2767     | 0.028 | ppbv  | 99       |
| 97)  | Trichloroethene(sim)       | 7.322  | 130  | 1406     | 0.030 | ppbv# | 69       |
| 98)  | 1,4-Dioxane(sim)           | 8.398  | 88   | 394m     | 0.023 | ppbv  | 73       |
| 99)  | cis-1,3-Dichloropropen...  | 8.908  | 75   | 994      | 0.021 | ppbv# | 73       |
| 100) | 1,1,2-Trichloroethane(...) | 9.900  | 97   | 1403     | 0.029 | ppbv  | 95       |
| 101) | Dibromochloromethane(sim)  | 10.099 | 129  | 2726     | 0.027 | ppbv  | 91       |
| 102) | 1,2-Dibromoethane(EDB)...  | 10.326 | 107  | 2099     | 0.027 | ppbv  | 100      |
| 103) | Tetrachloroethene(sim)     | 9.644  | 166  | 1494     | 0.023 | ppbv# | 66       |
| 105) | Bromoform(sim)             | 11.800 | 173  | 2135     | 0.026 | ppbv# | 57       |
| 106) | 1,1,1,2-Tetrachloroeth...  | 11.090 | 131  | 1494     | 0.028 | ppbv  | 98       |
| 107) | m,p-Xylene(sim)            | 11.251 | 91   | 3544     | 0.041 | ppbv  | 98       |
| 108) | 1,1,2,2-Tetrachloroeth...  | 12.736 | 83   | 2613     | 0.028 | ppbv  | 99       |
| 111) | Benzyl chloride(sim)       | 13.999 | 91   | 1426     | 0.020 | ppbv  | 89       |
| 112) | 1,3-Dichlorobenzene(sim)   | 13.671 | 146  | 2241     | 0.024 | ppbv  | 98       |
| 113) | 1,4-Dichlorobenzene(sim)   | 13.759 | 146  | 1836     | 0.022 | ppbv  | 91       |
| 114) | sec-Butylbenzene(sim)      | 13.483 | 105  | 2696     | 0.017 | ppbv  | 100      |
| 115) | 4-Isopropyltoluene(sim)    | 13.648 | 119  | 2268     | 0.020 | ppbv# | 90       |
| 116) | 1,2-Dichlorobenzene(sim)   | 14.138 | 146  | 2021     | 0.022 | ppbv  | 100      |
| 117) | n-Butylbenzene(sim)        | 14.051 | 91   | 1607     | 0.015 | ppbv  | 90       |
| 118) | 1,2,4-Trichlorobenzene...  | 15.309 | 180  | 593      | 0.011 | ppbv  | 97       |
| 119) | Hexachlorobutadiene(sim)   | 15.311 | 225  | 2429     | 0.029 | ppbv# | 64       |



# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_04.D  
 Acq On : 7 Dec 2019 5:10 pm  
 Operator : Keith  
 Client ID : ICAL 0.035  
 Lab ID : 0.035 ppbV  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 09:43:36 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:43:11 2019  
 Response via : Initial Calibration

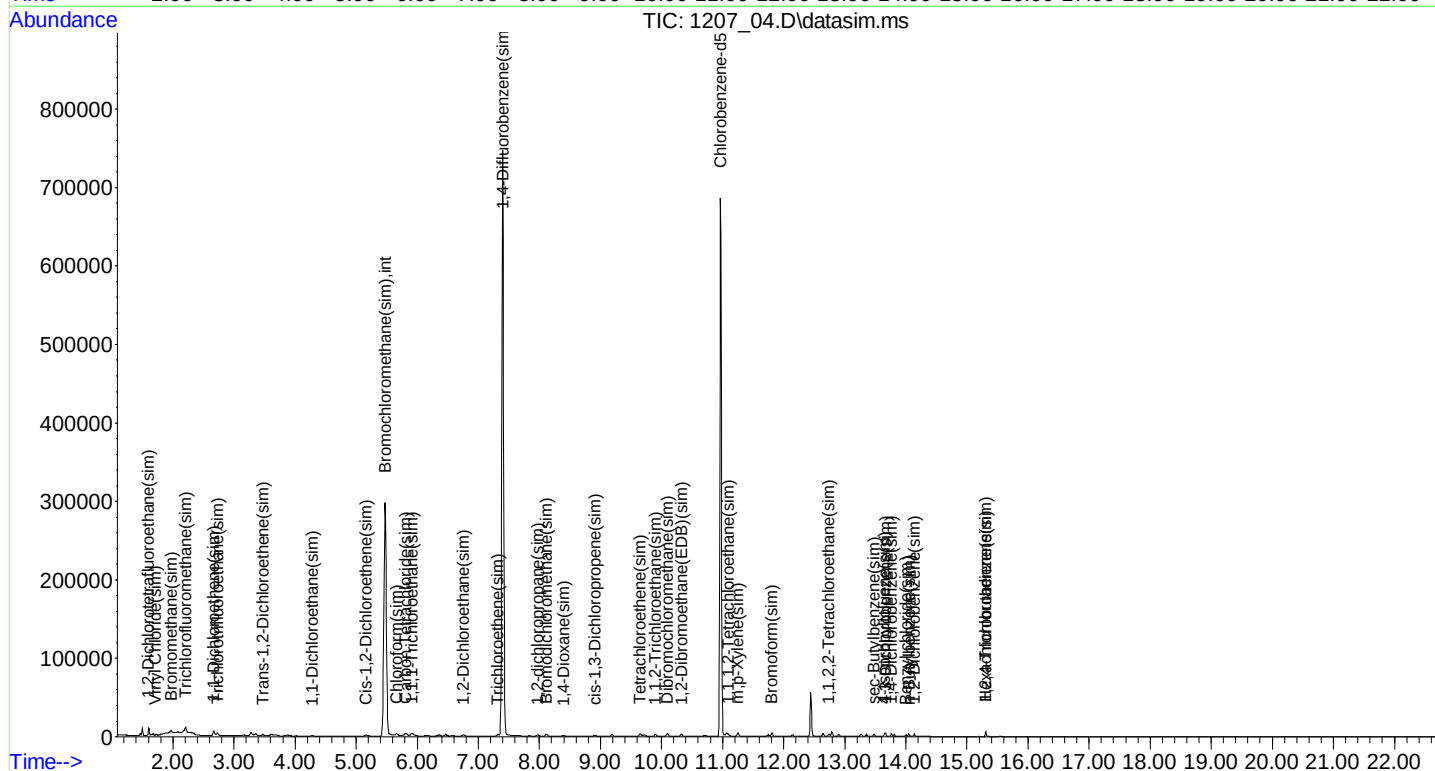
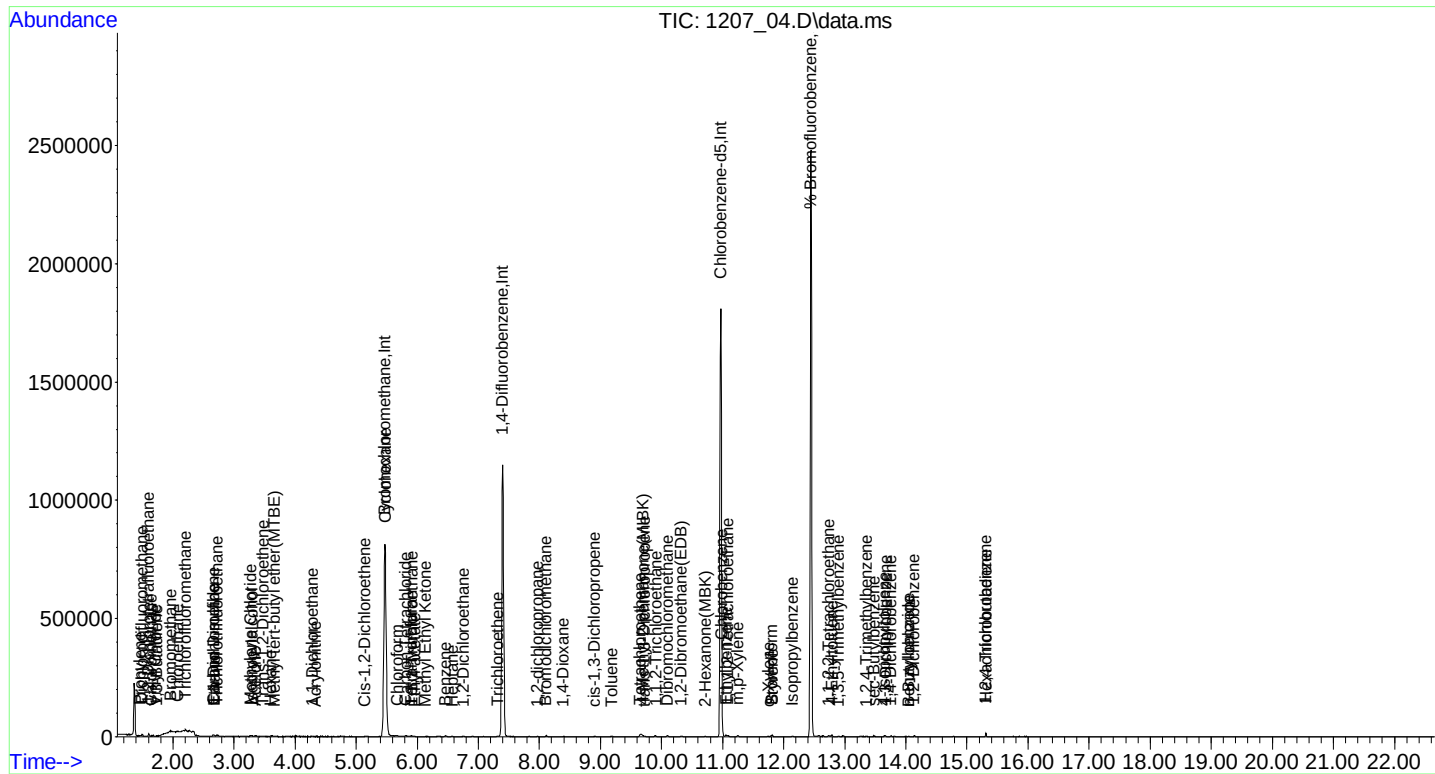
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

```
Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
Data File : 1207_04.D  
Acq On : 7 Dec 2019 5:10 pm  
Operator : Keith  
Client ID : ICAL 0.035  
Lab ID : 0.035 ppbV  
ALS Vial : 4 Sample Multiplier: 1
```

Quant Time: Dec 09 09:43:36 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Mon Dec 09 09:43:11 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_05.D  
 Acq On : 7 Dec 2019 5:42 pm  
 Operator : Keith  
 Client ID : ICAL 0.05  
 Lab ID : 0.05 ppbv  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 09:42:57 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:42:34 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.475  | 130  | 398131   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.395  | 114  | 971907   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.967 | 82   | 513940   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.471  | 130  | 414378   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.398  | 114  | 1082467  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.970 | 82   | 561964   | 10.000 | ng    | 0.00     |

System Monitoring Compounds  
 62) % Bromofluorobenzene 12.445 95 735032 9.292 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 92.90%

| Target Compounds              |        |     |      |             | Qvalue |
|-------------------------------|--------|-----|------|-------------|--------|
| 2) Propylene                  | 1.458  | 41  | 2257 | 0.059 ppbv  | 99     |
| 3) Dichlorodifluoromethane    | 1.499  | 101 | 461  | 0.026 ppbv# | 48     |
| 4) Chloromethane              | 1.636  | 50  | 1978 | 0.058 ppbv  | 74     |
| 5) 1,2-Dichlorotetrafluor...  | 1.608  | 135 | 4864 | 0.048 ppbv  | 96     |
| 6) Vinyl Chloride             | 1.711  | 62  | 1632 | 0.042 ppbv  | 76     |
| 7) 1,3-Butadiene              | 1.732  | 54  | 993  | 0.043 ppbv# | 91     |
| 8) Bromomethane               | 1.972  | 94  | 3799 | 0.061 ppbv# | 84     |
| 9) Chloroethane               | 2.081  | 64  | 1352 | 0.063 ppbv# | 66     |
| 10) Ethanol                   | 2.697  | 45  | 1580 | 0.149 ppbv# | 82     |
| 12) Acetone                   | 3.354  | 43  | 6814 | 0.108 ppbv  | 100    |
| 13) Trichlorofluoromethane    | 2.198  | 101 | 9016 | 0.061 ppbv# | 96     |
| 14) Isopropylalcohol          | 3.299  | 45  | 3148 | 0.052 ppbv# | 1      |
| 15) Acrylonitrile             | 4.337  | 53  | 564  | 0.031 ppbv# | 62     |
| 16) 1,1-Dichloroethene        | 2.663  | 61  | 3647 | 0.050 ppbv# | 76     |
| 17) Methylene Chloride        | 3.272  | 49  | 3718 | 0.082 ppbv  | 94     |
| 20) Carbon Disulfide          | 2.663  | 76  | 7149 | 0.057 ppbv# | 87     |
| 21) Trichlorotrifluoroethane  | 2.725  | 101 | 4951 | 0.048 ppbv# | 92     |
| 22) Trans-1,2-Dichloroethene  | 3.470  | 61  | 2690 | 0.048 ppbv  | 92     |
| 23) 1,1-Dichloroethane        | 4.278  | 63  | 3378 | 0.048 ppbv  | 88     |
| 24) Methyl tert-butyl ethe... | 3.676  | 73  | 3818 | 0.042 ppbv# | 59     |
| 25) Methyl Ethyl Ketone       | 6.152  | 43  | 3188 | 0.049 ppbv# | 75     |
| 26) Cis-1,2-Dichloroethene    | 5.158  | 61  | 2082 | 0.038 ppbv  | 93     |
| 27) Hexane                    | 3.600  | 57  | 1950 | 0.045 ppbv  | 96     |
| 28) Chloroform                | 5.662  | 83  | 4362 | 0.045 ppbv  | 97     |
| 29) Ethyl acetate             | 5.965  | 43  | 2774 | 0.044 ppbv# | 95     |
| 30) Tetrahydrofuran           | 5.900  | 42  | 660  | 0.028 ppbv# | 67     |
| 31) 1,2-Dichloroethane        | 6.765  | 62  | 3193 | 0.045 ppbv# | 87     |
| 32) 1,1,1-Trichloroethane     | 5.907  | 97  | 4847 | 0.049 ppbv  | 94     |
| 33) Benzene                   | 6.464  | 78  | 3949 | 0.043 ppbv# | 94     |
| 34) Carbon Tetrachloride      | 5.806  | 117 | 5521 | 0.048 ppbv  | 98     |
| 35) Cyclohexane               | 5.446  | 56  | 729  | 0.018 ppbv# | 1      |
| 37) 1,2-dichloropropane       | 7.977  | 63  | 1235 | 0.038 ppbv  | 93     |
| 38) Bromodichloromethane      | 8.114  | 83  | 4063 | 0.042 ppbv  | 96     |
| 39) Trichloroethene           | 7.320  | 130 | 2076 | 0.041 ppbv  | 96     |
| 41) 1,4-Dioxane               | 8.392  | 88  | 419  | 0.021 ppbv# | 46     |
| 43) Heptane                   | 6.573  | 43  | 1146 | 0.029 ppbv  | 92     |
| 44) cis-1,3-Dichloropropene   | 8.904  | 75  | 1903 | 0.032 ppbv  | 93     |
| 45) 4-Methyl-2-pentanone(M... | 9.699  | 43  | 1923 | 0.033 ppbv# | 88     |
| 46) trans-1,3-Dichloropropene | 9.727  | 75  | 1928 | 0.035 ppbv# | 90     |
| 47) 1,1,2-Trichloroethane     | 9.893  | 97  | 2077 | 0.045 ppbv  | 96     |
| 48) Toluene                   | 9.193  | 91  | 3151 | 0.031 ppbv# | 90     |
| 49) Dibromochloromethane      | 10.096 | 129 | 4643 | 0.043 ppbv  | 96     |
| 50) 2-Hexanone(MBK)           | 10.713 | 43  | 1412 | 0.022 ppbv# | 85     |
| 51) 1,2-Dibromoethane(EDB)    | 10.327 | 107 | 3280 | 0.040 ppbv  | 99     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_05.D  
 Acq On : 7 Dec 2019 5:42 pm  
 Operator : Keith  
 Client ID : ICAL 0.05  
 Lab ID : 0.05 ppbv  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 09:42:57 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Dec 09 09:42:34 2019  
 Response via : Initial Calibration

|      | Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|----------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene          | 9.648  | 166  | 2582     | 0.036 | ppbv  | 96       |
| 54)  | 1,1,1,2-Tetrachloroethane  | 11.098 | 131  | 2118     | 0.043 | ppbv# | 94       |
| 55)  | Chlorobenzene              | 10.988 | 112  | 3890     | 0.047 | ppbv# | 20       |
| 56)  | Ethylbenzene               | 11.063 | 91   | 4479     | 0.037 | ppbv  | 99       |
| 57)  | m,p-Xylene                 | 11.249 | 91   | 5835     | 0.069 | ppbv  | 96       |
| 58)  | Bromoform                  | 11.804 | 173  | 4025     | 0.046 | ppbv  | 93       |
| 59)  | Styrene                    | 11.818 | 104  | 1389     | 0.022 | ppbv  | 90       |
| 60)  | 1,1,2,2-Tetrachloroethane  | 12.737 | 83   | 3877     | 0.043 | ppbv# | 93       |
| 61)  | o-Xylene                   | 11.749 | 91   | 2466     | 0.025 | ppbv# | 88       |
| 64)  | Isopropylbenzene           | 12.146 | 105  | 3086     | 0.026 | ppbv# | 91       |
| 66)  | 4-Ethyltoluene             | 12.782 | 105  | 3595     | 0.029 | ppbv# | 94       |
| 67)  | 1,3,5-Trimethylbenzene     | 12.899 | 105  | 2856     | 0.027 | ppbv  | 94       |
| 68)  | 1,2,4-Trimethylbenzene     | 13.353 | 105  | 2501     | 0.024 | ppbv# | 69       |
| 70)  | Benzyl chloride            | 14.048 | 91   | 2408     | 0.020 | ppbv# | 88       |
| 71)  | 1,3-Dichlorobenzene        | 13.665 | 146  | 3187     | 0.037 | ppbv  | 96       |
| 72)  | 1,4-Dichlorobenzene        | 13.762 | 146  | 2667     | 0.032 | ppbv  | 96       |
| 73)  | sec-Butylbenzene           | 13.483 | 105  | 4161     | 0.028 | ppbv# | 87       |
| 74)  | 4-Isopropyltoluene         | 13.652 | 119  | 2766     | 0.023 | ppbv  | 92       |
| 75)  | 1,2-Dichlorobenzene        | 14.139 | 146  | 2706     | 0.034 | ppbv  | 94       |
| 76)  | n-Butylbenzene             | 14.048 | 91   | 2408     | 0.023 | ppbv# | 93       |
| 77)  | 1,2,4-Trichlorobenzene     | 15.304 | 180  | 853      | 0.013 | ppbv  | 94       |
| 79)  | Hexachlorobutadiene        | 15.309 | 225  | 3310     | 0.039 | ppbv  | 96       |
| 81)  | 1,2-Dichlorotetrafluor...  | 1.608  | 135  | 4864     | 0.044 | ppbv  | 96       |
| 82)  | Vinyl Chloride(sim)        | 1.714  | 62   | 1862     | 0.043 | ppbv  | 99       |
| 83)  | Bromomethane(sim)          | 1.972  | 94   | 3799     | 0.055 | ppbv# | 82       |
| 84)  | Trichlorofluoromethane...  | 2.207  | 101  | 9151     | 0.050 | ppbv  | 100      |
| 85)  | 1,1,1-Trichloroethane(sim) | 5.907  | 97   | 4636     | 0.046 | ppbv# | 93       |
| 86)  | Carbon Tetrachloride(sim)  | 5.809  | 117  | 5719     | 0.048 | ppbv  | 100      |
| 87)  | 1,1-Dichloroethene(sim)    | 2.663  | 61   | 3549     | 0.047 | ppbv# | 81       |
| 88)  | Trichlorotrifluoroetha...  | 2.728  | 101  | 5372     | 0.044 | ppbv  | 98       |
| 89)  | Trans-1,2-Dichloroethe...  | 3.470  | 61   | 2690     | 0.047 | ppbv  | 92       |
| 90)  | 1,1-Dichloroethane(sim)    | 4.276  | 63   | 3648     | 0.048 | ppbv  | 100      |
| 91)  | Cis-1,2-Dichloroethene...  | 5.158  | 61   | 2082     | 0.042 | ppbv  | 95       |
| 92)  | Chloroform(sim)            | 5.665  | 83   | 4639     | 0.046 | ppbv  | 98       |
| 93)  | 1,2-Dichloroethane(sim)    | 6.765  | 62   | 3193     | 0.047 | ppbv  | 82       |
| 95)  | 1,2-dichloropropane(sim)   | 7.977  | 63   | 1235     | 0.043 | ppbv  | 93       |
| 96)  | Bromodichloromethane(sim)  | 8.117  | 83   | 4323     | 0.044 | ppbv  | 99       |
| 97)  | Trichloroethene(sim)       | 7.322  | 130  | 2264m    | 0.048 | ppbv  | 36       |
| 98)  | 1,4-Dioxane(sim)           | 8.388  | 88   | 711      | 0.041 | ppbv# | 74       |
| 99)  | cis-1,3-Dichloropropen...  | 8.904  | 75   | 1903     | 0.039 | ppbv# | 93       |
| 100) | 1,1,2-Trichloroethane(...) | 9.896  | 97   | 2111     | 0.044 | ppbv  | 99       |
| 101) | Dibromochloromethane(sim)  | 10.096 | 129  | 4643     | 0.046 | ppbv  | 91       |
| 102) | 1,2-Dibromoethane(EDB)...  | 10.322 | 107  | 3345     | 0.043 | ppbv  | 98       |
| 103) | Tetrachloroethene(sim)     | 9.648  | 166  | 2582     | 0.041 | ppbv# | 79       |
| 105) | Bromoform(sim)             | 11.804 | 173  | 4025     | 0.049 | ppbv  | 84       |
| 106) | 1,1,1,2-Tetrachloroeth...  | 11.094 | 131  | 2439     | 0.046 | ppbv  | 100      |
| 107) | m,p-Xylene(sim)            | 11.249 | 91   | 5835     | 0.067 | ppbv  | 96       |
| 108) | 1,1,2,2-Tetrachloroeth...  | 12.740 | 83   | 4114     | 0.044 | ppbv  | 98       |
| 111) | Benzyl chloride(sim)       | 14.002 | 91   | 2031     | 0.028 | ppbv  | 89       |
| 112) | 1,3-Dichlorobenzene(sim)   | 13.668 | 146  | 3476     | 0.038 | ppbv  | 99       |
| 113) | 1,4-Dichlorobenzene(sim)   | 13.762 | 146  | 2667     | 0.033 | ppbv  | 94       |
| 114) | sec-Butylbenzene(sim)      | 13.480 | 105  | 4281     | 0.027 | ppbv  | 99       |
| 115) | 4-Isopropyltoluene(sim)    | 13.652 | 119  | 2766     | 0.025 | ppbv  | 92       |
| 116) | 1,2-Dichlorobenzene(sim)   | 14.135 | 146  | 3185     | 0.035 | ppbv  | 99       |
| 117) | n-Butylbenzene(sim)        | 14.048 | 91   | 2408     | 0.023 | ppbv  | 93       |
| 118) | 1,2,4-Trichlorobenzene...  | 15.307 | 180  | 915      | 0.017 | ppbv  | 96       |
| 119) | Hexachlorobutadiene(sim)   | 15.309 | 225  | 3208     | 0.039 | ppbv# | 75       |

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_05.D  
 Acq On : 7 Dec 2019 5:42 pm  
 Operator : Keith  
 Client ID : ICAL 0.05  
 Lab ID : 0.05 ppbV  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 09:42:57 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:42:34 2019  
 Response via : Initial Calibration

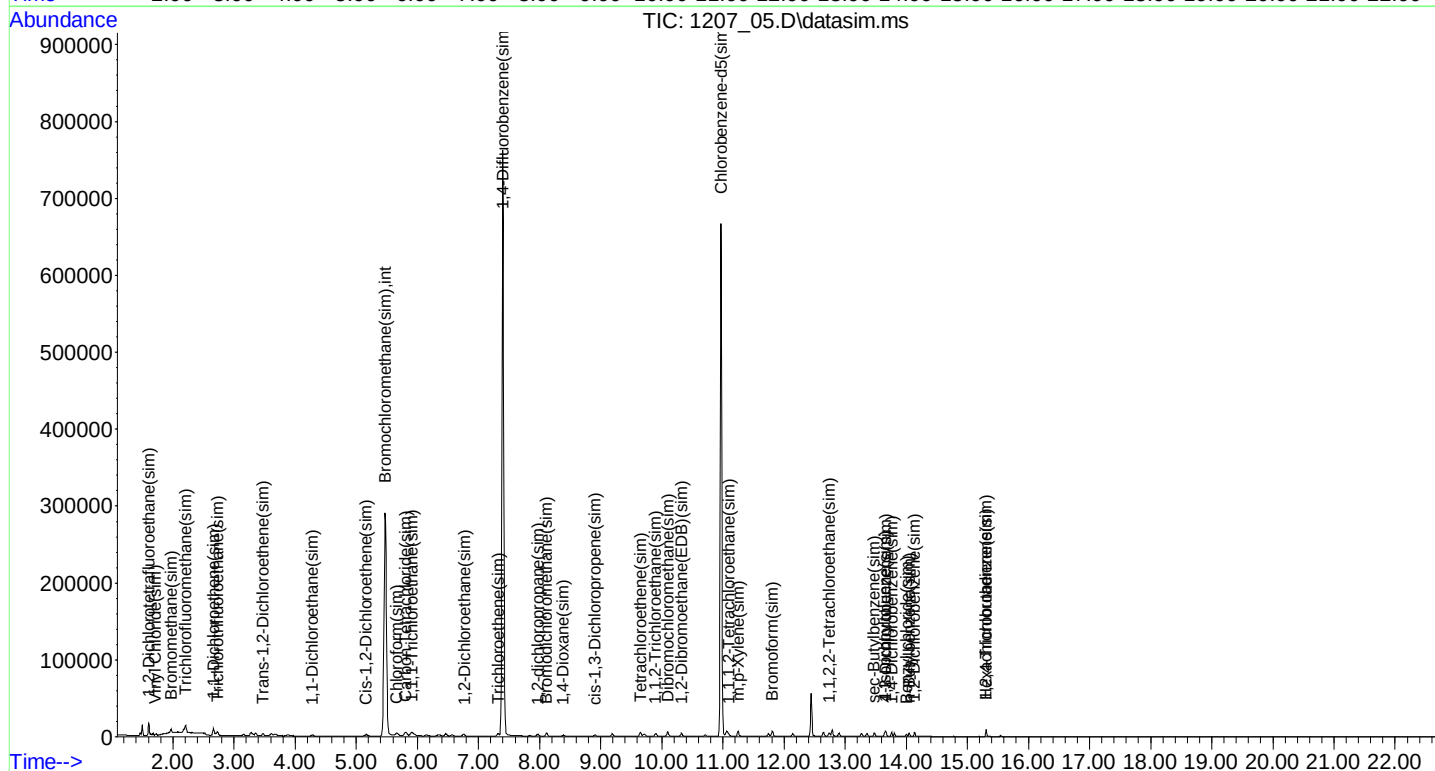
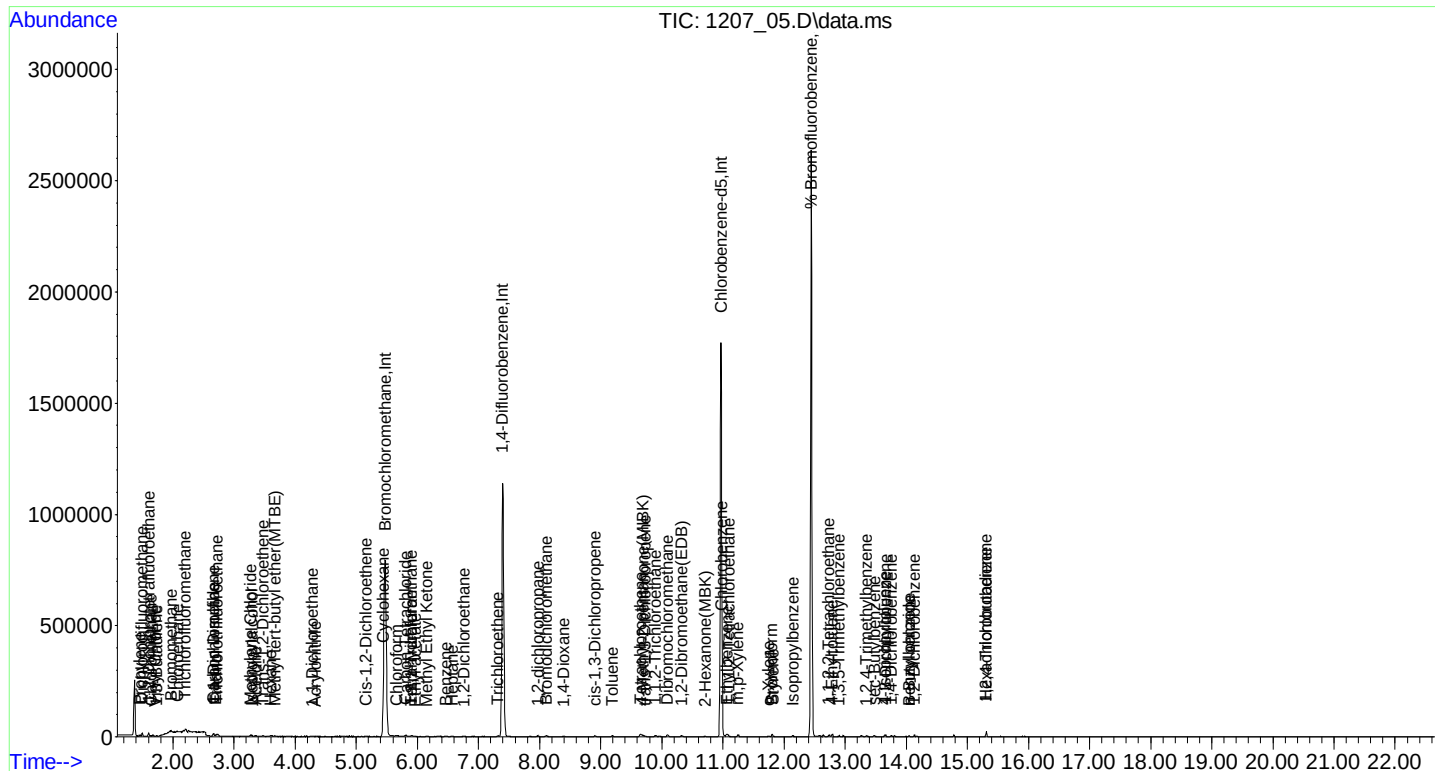
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_05.D  
 Acq On : 7 Dec 2019 5:42 pm  
 Operator : Keith  
 Client ID : ICAL 0.05  
 Lab ID : 0.05 ppbV  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 09:42:57 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Dec 09 09:42:34 2019  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_06.D  
 Acq On : 7 Dec 2019 6:14 pm  
 Operator : Keith  
 Client ID : ICAL 0.1  
 Lab ID : 0.10 ppbv  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 09 09:42:13 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:41:55 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.470  | 130  | 366775   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.398  | 114  | 908230   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.970 | 82   | 481974   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.473  | 130  | 381526   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.401  | 114  | 1016170  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.966 | 82   | 523213   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

62) % Bromofluorobenzene 12.441 95 690472 9.228 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 92.30%

## Target Compounds

|                               |        |     |       |       | Qvalue |     |
|-------------------------------|--------|-----|-------|-------|--------|-----|
| 2) Propylene                  | 1.465  | 41  | 4061  | 0.116 | ppbv#  | 76  |
| 3) Dichlorodifluoromethane    | 1.499  | 101 | 1550  | 0.095 | ppbv#  | 84  |
| 4) Chloromethane              | 1.643  | 50  | 4784  | 0.153 | ppbv   | 82  |
| 5) 1,2-Dichlorotetrafluor...  | 1.608  | 135 | 9956  | 0.106 | ppbv   | 100 |
| 6) Vinyl Chloride             | 1.711  | 62  | 3242  | 0.090 | ppbv   | 69  |
| 7) 1,3-Butadiene              | 1.732  | 54  | 2036  | 0.096 | ppbv   | 87  |
| 8) Bromomethane               | 1.971  | 94  | 7320  | 0.128 | ppbv#  | 87  |
| 9) Chloroethane               | 2.081  | 64  | 2768  | 0.139 | ppbv   | 91  |
| 10) Ethanol                   | 2.704  | 45  | 2352  | 0.241 | ppbv#  | 71  |
| 12) Acetone                   | 3.361  | 43  | 12276 | 0.212 | ppbv#  | 87  |
| 13) Trichlorofluoromethane    | 2.204  | 101 | 17144 | 0.125 | ppbv   | 97  |
| 14) Isopropylalcohol          | 3.327  | 45  | 5753  | 0.103 | ppbv#  | 21  |
| 15) Acrylonitrile             | 4.354  | 53  | 1645  | 0.097 | ppbv#  | 75  |
| 16) 1,1-Dichloroethene        | 2.663  | 61  | 7440  | 0.112 | ppbv   | 89  |
| 17) Methylene Chloride        | 3.279  | 49  | 6116  | 0.147 | ppbv#  | 80  |
| 20) Carbon Disulfide          | 2.663  | 76  | 15408 | 0.133 | ppbv#  | 82  |
| 21) Trichlorotrifluoroethane  | 2.725  | 101 | 11833 | 0.124 | ppbv   | 98  |
| 22) Trans-1,2-Dichloroethene  | 3.470  | 61  | 5147  | 0.100 | ppbv   | 91  |
| 23) 1,1-Dichloroethane        | 4.281  | 63  | 7047  | 0.108 | ppbv   | 84  |
| 24) Methyl tert-butyl ethe... | 3.682  | 73  | 7958  | 0.095 | ppbv#  | 86  |
| 25) Methyl Ethyl Ketone       | 6.162  | 43  | 5343  | 0.089 | ppbv#  | 93  |
| 26) Cis-1,2-Dichloroethene    | 5.168  | 61  | 4525  | 0.089 | ppbv   | 90  |
| 27) Hexane                    | 3.607  | 57  | 3966  | 0.099 | ppbv#  | 80  |
| 28) Chloroform                | 5.672  | 83  | 8741  | 0.098 | ppbv   | 93  |
| 29) Ethyl acetate             | 5.961  | 43  | 5127  | 0.088 | ppbv#  | 82  |
| 30) Tetrahydrofuran           | 5.896  | 42  | 1775  | 0.082 | ppbv#  | 84  |
| 31) 1,2-Dichloroethane        | 6.761  | 62  | 5976  | 0.092 | ppbv#  | 92  |
| 32) 1,1,1-Trichloroethane     | 5.910  | 97  | 9986  | 0.109 | ppbv   | 95  |
| 33) Benzene                   | 6.473  | 78  | 7674  | 0.091 | ppbv   | 98  |
| 34) Carbon Tetrachloride      | 5.809  | 117 | 10978 | 0.103 | ppbv   | 97  |
| 35) Cyclohexane               | 5.463  | 56  | 2862  | 0.075 | ppbv#  | 69  |
| 37) 1,2-dichloropropane       | 7.973  | 63  | 2459  | 0.080 | ppbv   | 96  |
| 38) Bromodichloromethane      | 8.110  | 83  | 9075  | 0.100 | ppbv   | 97  |
| 39) Trichloroethene           | 7.315  | 130 | 3917  | 0.084 | ppbv   | 94  |
| 41) 1,4-Dioxane               | 8.388  | 88  | 1017  | 0.055 | ppbv#  | 89  |
| 43) Heptane                   | 6.569  | 43  | 2813  | 0.077 | ppbv   | 98  |
| 44) cis-1,3-Dichloropropene   | 8.908  | 75  | 3294  | 0.059 | ppbv   | 92  |
| 45) 4-Methyl-2-pentanone(M... | 9.702  | 43  | 3948  | 0.072 | ppbv#  | 86  |
| 46) trans-1,3-Dichloropropene | 9.723  | 75  | 4066  | 0.079 | ppbv#  | 93  |
| 47) 1,1,2-Trichloroethane     | 9.904  | 97  | 3989  | 0.092 | ppbv   | 94  |
| 48) Toluene                   | 9.189  | 91  | 6707  | 0.071 | ppbv   | 91  |
| 49) Dibromochloromethane      | 10.099 | 129 | 9654  | 0.096 | ppbv   | 98  |
| 50) 2-Hexanone(MBK)           | 10.709 | 43  | 3204  | 0.052 | ppbv#  | 94  |
| 51) 1,2-Dibromoethane(EDB)    | 10.323 | 107 | 6850  | 0.090 | ppbv   | 98  |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_06.D  
 Acq On : 7 Dec 2019 6:14 pm  
 Operator : Keith  
 Client ID : ICAL 0.1  
 Lab ID : 0.10 ppbv  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 09 09:42:13 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:41:55 2019  
 Response via : Initial Calibration

|      | Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|----------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene          | 9.651  | 166  | 6101     | 0.091 | ppbv  | 98       |
| 54)  | 1,1,1,2-Tetrachloroethane  | 11.087 | 131  | 4674     | 0.101 | ppbv  | 92       |
| 55)  | Chlorobenzene              | 10.991 | 112  | 7431     | 0.096 | ppbv# | 8        |
| 56)  | Ethylbenzene               | 11.059 | 91   | 8877     | 0.079 | ppbv  | 94       |
| 57)  | m,p-Xylene                 | 11.251 | 91   | 10809    | 0.135 | ppbv  | 94       |
| 58)  | Bromoform                  | 11.807 | 173  | 7855     | 0.095 | ppbv  | 96       |
| 59)  | Styrene                    | 11.814 | 104  | 3082     | 0.051 | ppbv  | 96       |
| 60)  | 1,1,2,2-Tetrachloroethane  | 12.740 | 83   | 8403     | 0.100 | ppbv# | 96       |
| 61)  | o-Xylene                   | 11.745 | 91   | 5176     | 0.056 | ppbv  | 96       |
| 64)  | Isopropylbenzene           | 12.143 | 105  | 6526     | 0.058 | ppbv  | 98       |
| 66)  | 4-Ethyltoluene             | 12.785 | 105  | 7640     | 0.065 | ppbv# | 96       |
| 67)  | 1,3,5-Trimethylbenzene     | 12.895 | 105  | 6400     | 0.064 | ppbv  | 99       |
| 68)  | 1,2,4-Trimethylbenzene     | 13.356 | 105  | 6175     | 0.062 | ppbv  | 93       |
| 70)  | Benzyl chloride            | 14.044 | 91   | 5833     | 0.050 | ppbv# | 92       |
| 71)  | 1,3-Dichlorobenzene        | 13.661 | 146  | 6531     | 0.081 | ppbv  | 96       |
| 72)  | 1,4-Dichlorobenzene        | 13.758 | 146  | 5692     | 0.072 | ppbv  | 94       |
| 73)  | sec-Butylbenzene           | 13.479 | 105  | 9056     | 0.066 | ppbv  | 95       |
| 74)  | 4-Isopropyltoluene         | 13.648 | 119  | 6168     | 0.055 | ppbv  | 96       |
| 75)  | 1,2-Dichlorobenzene        | 14.135 | 146  | 5658     | 0.075 | ppbv  | 93       |
| 76)  | n-Butylbenzene             | 14.044 | 91   | 5833     | 0.061 | ppbv  | 95       |
| 77)  | 1,2,4-Trichlorobenzene     | 15.306 | 180  | 1934     | 0.032 | ppbv# | 90       |
| 79)  | Hexachlorobutadiene        | 15.311 | 225  | 7045     | 0.088 | ppbv  | 100      |
| 81)  | 1,2-Dichlorotetrafluor...  | 1.608  | 135  | 9956     | 0.099 | ppbv  | 100      |
| 82)  | Vinyl Chloride(sim)        | 1.714  | 62   | 3888     | 0.098 | ppbv  | 98       |
| 83)  | Bromomethane(sim)          | 1.971  | 94   | 7204     | 0.113 | ppbv  | 89       |
| 84)  | Trichlorofluoromethane...  | 2.207  | 101  | 18347    | 0.110 | ppbv  | 98       |
| 85)  | 1,1,1-Trichloroethane(sim) | 5.910  | 97   | 9986     | 0.108 | ppbv# | 95       |
| 86)  | Carbon Tetrachloride(sim)  | 5.812  | 117  | 11495    | 0.104 | ppbv  | 98       |
| 87)  | 1,1-Dichloroethene(sim)    | 2.663  | 61   | 7440     | 0.107 | ppbv  | 93       |
| 88)  | Trichlorotrifluoroetha...  | 2.728  | 101  | 12687    | 0.114 | ppbv  | 99       |
| 89)  | Trans-1,2-Dichloroethe...  | 3.470  | 61   | 5147     | 0.098 | ppbv  | 91       |
| 90)  | 1,1-Dichloroethane(sim)    | 4.284  | 63   | 7151     | 0.102 | ppbv  | 99       |
| 91)  | Cis-1,2-Dichloroethene...  | 5.168  | 61   | 4366     | 0.096 | ppbv  | 89       |
| 92)  | Chloroform(sim)            | 5.668  | 83   | 9315     | 0.101 | ppbv  | 99       |
| 93)  | 1,2-Dichloroethane(sim)    | 6.761  | 62   | 5976     | 0.095 | ppbv# | 88       |
| 95)  | 1,2-dichloropropane(sim)   | 7.973  | 63   | 2459     | 0.091 | ppbv  | 96       |
| 96)  | Bromodichloromethane(sim)  | 8.113  | 83   | 9030     | 0.098 | ppbv  | 99       |
| 97)  | Trichloroethene(sim)       | 7.315  | 130  | 3917     | 0.089 | ppbv  | 94       |
| 98)  | 1,4-Dioxane(sim)           | 8.391  | 88   | 1302     | 0.079 | ppbv# | 80       |
| 99)  | cis-1,3-Dichloropropen...  | 8.908  | 75   | 3294     | 0.068 | ppbv# | 92       |
| 100) | 1,1,2-Trichloroethane(...) | 9.899  | 97   | 4433     | 0.098 | ppbv  | 99       |
| 101) | Dibromochloromethane(sim)  | 10.099 | 129  | 9428     | 0.099 | ppbv  | 94       |
| 102) | 1,2-Dibromoethane(EDB)...  | 10.325 | 107  | 7023     | 0.096 | ppbv  | 100      |
| 103) | Tetrachloroethene(sim)     | 9.651  | 166  | 6101     | 0.102 | ppbv  | 93       |
| 105) | Bromoform(sim)             | 11.807 | 173  | 7599     | 0.098 | ppbv  | 90       |
| 106) | 1,1,1,2-Tetrachloroeth...  | 11.090 | 131  | 5053     | 0.103 | ppbv  | 99       |
| 107) | m,p-Xylene(sim)            | 11.251 | 91   | 10809    | 0.132 | ppbv  | 94       |
| 108) | 1,1,2,2-Tetrachloroeth...  | 12.736 | 83   | 8631     | 0.099 | ppbv  | 99       |
| 111) | Benzyl chloride(sim)       | 14.005 | 91   | 5221     | 0.076 | ppbv  | 89       |
| 112) | 1,3-Dichlorobenzene(sim)   | 13.664 | 146  | 7640     | 0.089 | ppbv  | 100      |
| 113) | 1,4-Dichlorobenzene(sim)   | 13.758 | 146  | 5692     | 0.075 | ppbv  | 94       |
| 114) | sec-Butylbenzene(sim)      | 13.476 | 105  | 9399     | 0.062 | ppbv  | 100      |
| 115) | 4-Isopropyltoluene(sim)    | 13.648 | 119  | 6168     | 0.057 | ppbv  | 96       |
| 116) | 1,2-Dichlorobenzene(sim)   | 14.138 | 146  | 6890     | 0.080 | ppbv  | 99       |
| 117) | n-Butylbenzene(sim)        | 14.044 | 91   | 5833     | 0.058 | ppbv  | 95       |
| 118) | 1,2,4-Trichlorobenzene...  | 15.304 | 180  | 2110     | 0.043 | ppbv  | 93       |
| 119) | Hexachlorobutadiene(sim)   | 15.311 | 225  | 6944     | 0.090 | ppbv  | 97       |



# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_06.D  
 Acq On : 7 Dec 2019 6:14 pm  
 Operator : Keith  
 Client ID : ICAL 0.1  
 Lab ID : 0.10 ppbv  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 09 09:42:13 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:41:55 2019  
 Response via : Initial Calibration

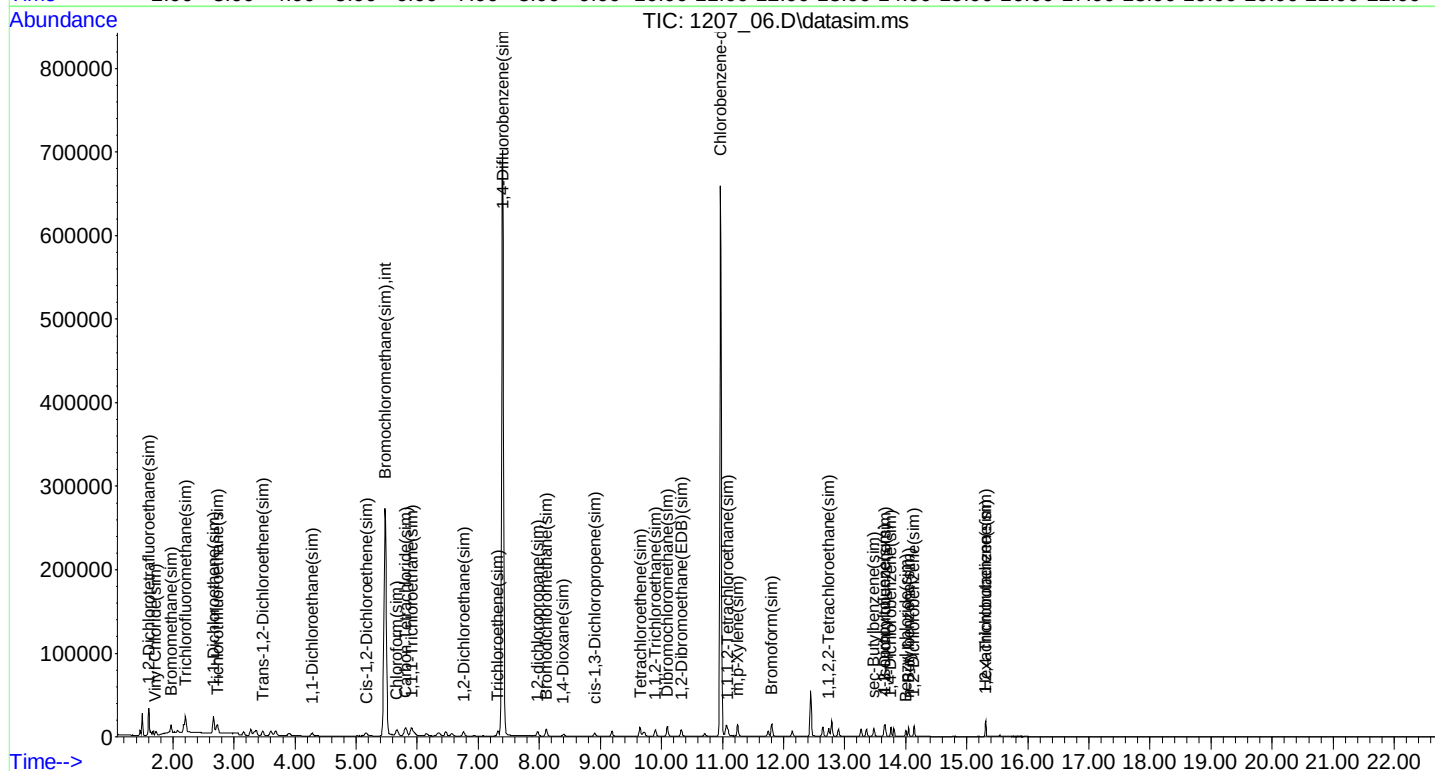
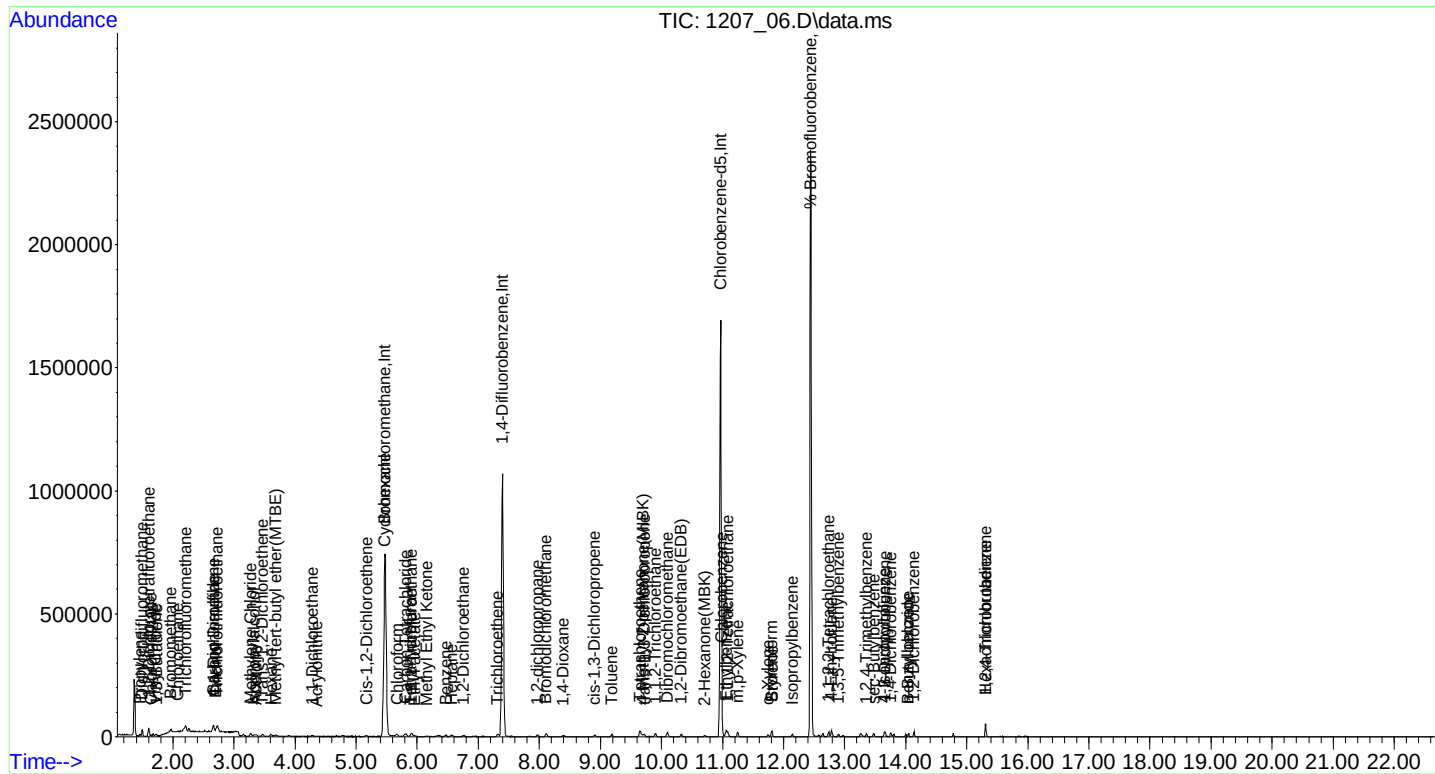
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

```
Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
Data File : 1207_06.D  
Acq On : 7 Dec 2019 6:14 pm  
Operator : Keith  
Client ID : ICAI 0.1  
Lab ID : 0.10 ppbv  
ALS Vial : 6 Sample Multiplier: 1
```

Quant Time: Dec 09 09:42:13 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Mon Dec 09 09:41:55 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_07.D  
 Acq On : 7 Dec 2019 6:52 pm  
 Operator : Keith  
 Client ID : ICAL 0.5  
 Lab ID : 0.5ppbv  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 09:41:38 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:41:26 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.470  | 130  | 331885   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.398  | 114  | 846830   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.970 | 82   | 474541   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.473  | 130  | 348492   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.394  | 114  | 944798   | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.966 | 82   | 517501   | 10.000 | ng    | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 62) % Bromofluorobenzene    | 12.441 | 95    | 697577   | 9.397    | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 70 - 130 | Recovery | =    | 94.00% |

|                               |        |     |       |       |       |        |
|-------------------------------|--------|-----|-------|-------|-------|--------|
| Target Compounds              |        |     |       |       |       | Qvalue |
| 2) Propylene                  | 1.458  | 41  | 12453 | 0.392 | ppbv  | 88     |
| 3) Dichlorodifluoromethane    | 1.492  | 101 | 6955  | 0.474 | ppbv  | 91     |
| 4) Chloromethane              | 1.636  | 50  | 18266 | 0.648 | ppbv  | 100    |
| 5) 1,2-Dichlorotetrafluor...  | 1.601  | 135 | 48905 | 0.578 | ppbv  | 98     |
| 6) Vinyl Chloride             | 1.711  | 62  | 18996 | 0.586 | ppbv  | 97     |
| 7) 1,3-Butadiene              | 1.732  | 54  | 9832  | 0.513 | ppbv  | 91     |
| 8) Bromomethane               | 1.965  | 94  | 30199 | 0.583 | ppbv# | 98     |
| 9) Chloroethane               | 2.074  | 64  | 10144 | 0.564 | ppbv  | 99     |
| 10) Ethanol                   | 2.697  | 45  | 7947  | 0.898 | ppbv# | 88     |
| 12) Acetone                   | 3.354  | 43  | 38368 | 0.732 | ppbv  | 96     |
| 13) Trichlorofluoromethane    | 2.204  | 101 | 81434 | 0.658 | ppbv  | 96     |
| 14) Isopropylalcohol          | 3.327  | 45  | 31453 | 0.623 | ppbv  | 95     |
| 15) Acrylonitrile             | 4.349  | 53  | 7435  | 0.485 | ppbv  | 100    |
| 16) 1,1-Dichloroethene        | 2.663  | 61  | 35510 | 0.590 | ppbv  | 98     |
| 17) Methylene Chloride        | 3.272  | 49  | 22047 | 0.584 | ppbv  | 99     |
| 20) Carbon Disulfide          | 2.663  | 76  | 64800 | 0.620 | ppbv  | 96     |
| 21) Trichlorotrifluoroethane  | 2.725  | 101 | 54525 | 0.633 | ppbv  | 97     |
| 22) Trans-1,2-Dichloroethene  | 3.463  | 61  | 25029 | 0.540 | ppbv  | 92     |
| 23) 1,1-Dichloroethane        | 4.276  | 63  | 31081 | 0.527 | ppbv  | 99     |
| 24) Methyl tert-butyl ethe... | 3.675  | 73  | 37186 | 0.492 | ppbv# | 90     |
| 25) Methyl Ethyl Ketone       | 6.148  | 43  | 25270 | 0.463 | ppbv  | 97     |
| 26) Cis-1,2-Dichloroethene    | 5.160  | 61  | 21118 | 0.459 | ppbv  | 94     |
| 27) Hexane                    | 3.607  | 57  | 17224 | 0.474 | ppbv  | 91     |
| 28) Chloroform                | 5.665  | 83  | 41762 | 0.517 | ppbv  | 100    |
| 29) Ethyl acetate             | 5.968  | 43  | 28432 | 0.542 | ppbv  | 96     |
| 30) Tetrahydrofuran           | 5.896  | 42  | 9063  | 0.462 | ppbv  | 94     |
| 31) 1,2-Dichloroethane        | 6.761  | 62  | 31069 | 0.528 | ppbv  | 99     |
| 32) 1,1,1-Trichloroethane     | 5.910  | 97  | 46440 | 0.559 | ppbv  | 98     |
| 33) Benzene                   | 6.466  | 78  | 37499 | 0.491 | ppbv  | 99     |
| 34) Carbon Tetrachloride      | 5.809  | 117 | 52201 | 0.540 | ppbv  | 99     |
| 35) Cyclohexane               | 5.478  | 56  | 14415 | 0.418 | ppbv  | 98     |
| 37) 1,2-dichloropropane       | 7.973  | 63  | 12999 | 0.455 | ppbv  | 95     |
| 38) Bromodichloromethane      | 8.110  | 83  | 43320 | 0.512 | ppbv  | 99     |
| 39) Trichloroethene           | 7.322  | 130 | 19437 | 0.446 | ppbv  | 95     |
| 41) 1,4-Dioxane               | 8.380  | 88  | 5579  | 0.326 | ppbv# | 82     |
| 43) Heptane                   | 6.562  | 43  | 15047 | 0.440 | ppbv  | 98     |
| 44) cis-1,3-Dichloropropene   | 8.908  | 75  | 20046 | 0.386 | ppbv  | 97     |
| 45) 4-Methyl-2-pentanone(M... | 9.702  | 43  | 23288 | 0.453 | ppbv  | 97     |
| 46) trans-1,3-Dichloropropene | 9.723  | 75  | 23072 | 0.478 | ppbv  | 97     |
| 47) 1,1,2-Trichloroethane     | 9.904  | 97  | 20930 | 0.520 | ppbv  | 98     |
| 48) Toluene                   | 9.189  | 91  | 34362 | 0.392 | ppbv  | 99     |
| 49) Dibromochloromethane      | 10.091 | 129 | 49379 | 0.526 | ppbv  | 98     |
| 50) 2-Hexanone(MBK)           | 10.709 | 43  | 19404 | 0.340 | ppbv  | 94     |
| 51) 1,2-Dibromoethane(EDB)    | 10.322 | 107 | 33358 | 0.470 | ppbv  | 96     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_07.D  
 Acq On : 7 Dec 2019 6:52 pm  
 Operator : Keith  
 Client ID : ICAL 0.5  
 Lab ID : 0.5ppbv  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 09:41:38 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:41:26 2019  
 Response via : Initial Calibration

|      | Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|----------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene          | 9.644  | 166  | 28621    | 0.459 | ppbv  | 99       |
| 54)  | 1,1,1,2-Tetrachloroethane  | 11.087 | 131  | 25147    | 0.549 | ppbv  | 98       |
| 55)  | Chlorobenzene              | 10.984 | 112  | 37809    | 0.496 | ppbv# | 83       |
| 56)  | Ethylbenzene               | 11.066 | 91   | 56775    | 0.514 | ppbv  | 99       |
| 57)  | m,p-Xylene                 | 11.251 | 91   | 75347    | 0.958 | ppbv  | 98       |
| 58)  | Bromoform                  | 11.807 | 173  | 44331    | 0.545 | ppbv  | 99       |
| 59)  | Styrene                    | 11.814 | 104  | 22575    | 0.379 | ppbv  | 98       |
| 60)  | 1,1,2,2-Tetrachloroethane  | 12.740 | 83   | 42701    | 0.515 | ppbv  | 99       |
| 61)  | o-Xylene                   | 11.745 | 91   | 31008    | 0.340 | ppbv  | 98       |
| 64)  | Isopropylbenzene           | 12.143 | 105  | 41930    | 0.378 | ppbv  | 97       |
| 66)  | 4-Ethyltoluene             | 12.785 | 105  | 55396    | 0.480 | ppbv  | 99       |
| 67)  | 1,3,5-Trimethylbenzene     | 12.902 | 105  | 43790    | 0.447 | ppbv  | 98       |
| 68)  | 1,2,4-Trimethylbenzene     | 13.356 | 105  | 44683    | 0.457 | ppbv  | 99       |
| 70)  | Benzyl chloride            | 14.044 | 91   | 46665    | 0.408 | ppbv  | 97       |
| 71)  | 1,3-Dichlorobenzene        | 13.661 | 146  | 45295    | 0.567 | ppbv  | 97       |
| 72)  | 1,4-Dichlorobenzene        | 13.758 | 146  | 37641    | 0.485 | ppbv  | 99       |
| 73)  | sec-Butylbenzene           | 13.479 | 105  | 64702    | 0.478 | ppbv  | 99       |
| 74)  | 4-Isopropyltoluene         | 13.648 | 119  | 49426    | 0.451 | ppbv  | 99       |
| 75)  | 1,2-Dichlorobenzene        | 14.135 | 146  | 38671    | 0.522 | ppbv  | 99       |
| 76)  | n-Butylbenzene             | 14.044 | 91   | 46665    | 0.493 | ppbv  | 98       |
| 77)  | 1,2,4-Trichlorobenzene     | 15.310 | 180  | 16646    | 0.274 | ppbv  | 98       |
| 79)  | Hexachlorobutadiene        | 15.310 | 225  | 40685    | 0.522 | ppbv  | 100      |
| 81)  | 1,2-Dichlorotetrafluor...  | 1.601  | 135  | 48905    | 0.531 | ppbv  | 98       |
| 82)  | Vinyl Chloride(sim)        | 1.707  | 62   | 19859    | 0.549 | ppbv  | 100      |
| 83)  | Bromomethane(sim)          | 1.965  | 94   | 30199    | 0.519 | ppbv# | 97       |
| 84)  | Trichlorofluoromethane...  | 2.207  | 101  | 84845    | 0.556 | ppbv  | 99       |
| 85)  | 1,1,1-Trichloroethane(sim) | 5.910  | 97   | 46440    | 0.548 | ppbv# | 98       |
| 86)  | Carbon Tetrachloride(sim)  | 5.805  | 117  | 54192    | 0.538 | ppbv  | 100      |
| 87)  | 1,1-Dichloroethene(sim)    | 2.663  | 61   | 35510    | 0.562 | ppbv  | 98       |
| 88)  | Trichlorotrifluoroetha...  | 2.728  | 101  | 57428    | 0.600 | ppbv  | 100      |
| 89)  | Trans-1,2-Dichloroethe...  | 3.463  | 61   | 25029    | 0.520 | ppbv  | 92       |
| 90)  | 1,1-Dichloroethane(sim)    | 4.279  | 63   | 33103    | 0.516 | ppbv  | 100      |
| 91)  | Cis-1,2-Dichloroethene...  | 5.160  | 61   | 21118    | 0.507 | ppbv  | 94       |
| 92)  | Chloroform(sim)            | 5.668  | 83   | 44301    | 0.526 | ppbv  | 100      |
| 93)  | 1,2-Dichloroethane(sim)    | 6.761  | 62   | 31069    | 0.538 | ppbv  | 99       |
| 95)  | 1,2-dichloropropane(sim)   | 7.973  | 63   | 12999    | 0.518 | ppbv  | 95       |
| 96)  | Bromodichloromethane(sim)  | 8.113  | 83   | 46091    | 0.540 | ppbv  | 100      |
| 97)  | Trichloroethene(sim)       | 7.322  | 130  | 19437    | 0.474 | ppbv  | 98       |
| 98)  | 1,4-Dioxane(sim)           | 8.383  | 88   | 6608     | 0.401 | ppbv# | 86       |
| 99)  | cis-1,3-Dichloropropen...  | 8.908  | 75   | 20046    | 0.428 | ppbv  | 97       |
| 100) | 1,1,2-Trichloroethane(...) | 9.899  | 97   | 22780    | 0.544 | ppbv  | 100      |
| 101) | Dibromochloromethane(sim)  | 10.091 | 129  | 49379    | 0.559 | ppbv  | 97       |
| 102) | 1,2-Dibromoethane(EDB)...  | 10.325 | 107  | 36331    | 0.536 | ppbv  | 99       |
| 103) | Tetrachloroethene(sim)     | 9.644  | 166  | 28551    | 0.515 | ppbv  | 99       |
| 105) | Bromoform(sim)             | 11.807 | 173  | 44189    | 0.579 | ppbv  | 99       |
| 106) | 1,1,1,2-Tetrachloroeth...  | 11.089 | 131  | 26793    | 0.550 | ppbv  | 99       |
| 107) | m,p-Xylene(sim)            | 11.251 | 91   | 75350    | 0.893 | ppbv  | 98       |
| 108) | 1,1,2,2-Tetrachloroeth...  | 12.736 | 83   | 45729    | 0.530 | ppbv  | 100      |
| 111) | Benzyl chloride(sim)       | 14.005 | 91   | 33738    | 0.471 | ppbv  | 97       |
| 112) | 1,3-Dichlorobenzene(sim)   | 13.664 | 146  | 50371    | 0.593 | ppbv  | 99       |
| 113) | 1,4-Dichlorobenzene(sim)   | 13.758 | 146  | 37641    | 0.492 | ppbv  | 99       |
| 114) | sec-Butylbenzene(sim)      | 13.476 | 105  | 70582    | 0.457 | ppbv  | 99       |
| 115) | 4-Isopropyltoluene(sim)    | 13.648 | 119  | 49426    | 0.442 | ppbv  | 99       |
| 116) | 1,2-Dichlorobenzene(sim)   | 14.138 | 146  | 43385    | 0.512 | ppbv  | 99       |
| 117) | n-Butylbenzene(sim)        | 14.044 | 91   | 46665    | 0.452 | ppbv  | 98       |
| 118) | 1,2,4-Trichlorobenzene...  | 15.309 | 180  | 18697    | 0.365 | ppbv  | 96       |
| 119) | Hexachlorobutadiene(sim)   | 15.310 | 225  | 40821    | 0.533 | ppbv  | 98       |

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_07.D  
 Acq On : 7 Dec 2019 6:52 pm  
 Operator : Keith  
 Client ID : ICAL 0.5  
 Lab ID : 0.5ppbv  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 09:41:38 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:41:26 2019  
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

(#)out of range (m>manual integration reviewed by analyst (+)signals summed



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_08.D  
 Acq On : 7 Dec 2019 7:29 pm  
 Operator : Keith  
 Client ID : ICAL 2.5  
 Lab ID : 2.5 ppbv  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 09:41:18 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:41:08 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.470  | 130  | 289810   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.398  | 114  | 748672   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.970 | 82   | 434858   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.473  | 130  | 301902   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.400  | 114  | 840431   | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.966 | 82   | 474257   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

|                          |        |       |          |          |      |        |
|--------------------------|--------|-------|----------|----------|------|--------|
| 62) % Bromofluorobenzene | 12.441 | 95    | 651546   | 9.511    | ppbv | 0.00   |
| Spiked Amount            | 10.000 | Range | 70 - 130 | Recovery | =    | 95.10% |

## Target Compounds

|                               |        |     |        |       |      | Qvalue |
|-------------------------------|--------|-----|--------|-------|------|--------|
| 2) Propylene                  | 1.458  | 41  | 62352  | 2.247 | ppbv | 95     |
| 3) Dichlorodifluoromethane    | 1.492  | 101 | 37531  | 2.926 | ppbv | 98     |
| 4) Chloromethane              | 1.636  | 50  | 62918  | 2.554 | ppbv | 99     |
| 5) 1,2-Dichlorotetrafluor...  | 1.601  | 135 | 191879 | 2.597 | ppbv | 99     |
| 6) Vinyl Chloride             | 1.711  | 62  | 69311  | 2.447 | ppbv | 100    |
| 7) 1,3-Butadiene              | 1.732  | 54  | 42098  | 2.513 | ppbv | 98     |
| 8) Bromomethane               | 1.965  | 94  | 109160 | 2.412 | ppbv | 99     |
| 9) Chloroethane               | 2.074  | 64  | 34219  | 2.177 | ppbv | 96     |
| 10) Ethanol                   | 2.690  | 45  | 20260  | 2.623 | ppbv | 96     |
| 12) Acetone                   | 3.354  | 43  | 127508 | 2.787 | ppbv | 99     |
| 13) Trichlorofluoromethane    | 2.204  | 101 | 283281 | 2.621 | ppbv | 100    |
| 14) Isopropylalcohol          | 3.313  | 45  | 109785 | 2.492 | ppbv | 95     |
| 15) Acrylonitrile             | 4.354  | 53  | 30505  | 2.280 | ppbv | 98     |
| 16) 1,1-Dichloroethene        | 2.663  | 61  | 131012 | 2.492 | ppbv | 98     |
| 17) Methylene Chloride        | 3.272  | 49  | 79148  | 2.400 | ppbv | 100    |
| 20) Carbon Disulfide          | 2.663  | 76  | 236468 | 2.592 | ppbv | 99     |
| 21) Trichlorotrifluoroethane  | 2.725  | 101 | 193699 | 2.577 | ppbv | 100    |
| 22) Trans-1,2-Dichloroethene  | 3.470  | 61  | 94630  | 2.338 | ppbv | 95     |
| 23) 1,1-Dichloroethane        | 4.276  | 63  | 121153 | 2.353 | ppbv | 99     |
| 24) Methyl tert-butyl ethe... | 3.669  | 73  | 155517 | 2.357 | ppbv | 95     |
| 25) Methyl Ethyl Ketone       | 6.141  | 43  | 105443 | 2.213 | ppbv | 100    |
| 26) Cis-1,2-Dichloroethene    | 5.168  | 61  | 92960  | 2.314 | ppbv | 99     |
| 27) Hexane                    | 3.607  | 57  | 71433  | 2.249 | ppbv | 98     |
| 28) Chloroform                | 5.672  | 83  | 177431 | 2.515 | ppbv | 99     |
| 29) Ethyl acetate             | 5.953  | 43  | 110022 | 2.400 | ppbv | 98     |
| 30) Tetrahydrofuran           | 5.881  | 42  | 40578  | 2.368 | ppbv | 99     |
| 31) 1,2-Dichloroethane        | 6.761  | 62  | 129395 | 2.519 | ppbv | 99     |
| 32) 1,1,1-Trichloroethane     | 5.910  | 97  | 180933 | 2.493 | ppbv | 98     |
| 33) Benzene                   | 6.466  | 78  | 160465 | 2.408 | ppbv | 99     |
| 34) Carbon Tetrachloride      | 5.809  | 117 | 216360 | 2.561 | ppbv | 99     |
| 35) Cyclohexane               | 5.463  | 56  | 71400  | 2.371 | ppbv | 98     |
| 37) 1,2-dichloropropane       | 7.973  | 63  | 62984  | 2.492 | ppbv | 97     |
| 38) Bromodichloromethane      | 8.117  | 83  | 196713 | 2.628 | ppbv | 100    |
| 39) Trichloroethene           | 7.322  | 130 | 91236  | 2.367 | ppbv | 98     |
| 41) 1,4-Dioxane               | 8.381  | 88  | 36418  | 2.410 | ppbv | 100    |
| 43) Heptane                   | 6.562  | 43  | 77797  | 2.576 | ppbv | 99     |
| 44) cis-1,3-Dichloropropene   | 8.908  | 75  | 115569 | 2.517 | ppbv | 98     |
| 45) 4-Methyl-2-pentanone(M... | 9.694  | 43  | 128699 | 2.833 | ppbv | 100    |
| 46) trans-1,3-Dichloropropene | 9.723  | 75  | 115610 | 2.711 | ppbv | 99     |
| 47) 1,1,2-Trichloroethane     | 9.897  | 97  | 89726  | 2.524 | ppbv | 97     |
| 48) Toluene                   | 9.189  | 91  | 205971 | 2.660 | ppbv | 100    |
| 49) Dibromochloromethane      | 10.099 | 129 | 210604 | 2.535 | ppbv | 100    |
| 50) 2-Hexanone(MBK)           | 10.702 | 43  | 126646 | 2.514 | ppbv | 99     |
| 51) 1,2-Dibromoethane(EDB)    | 10.322 | 107 | 154791 | 2.469 | ppbv | 99     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_08.D  
 Acq On : 7 Dec 2019 7:29 pm  
 Operator : Keith  
 Client ID : ICAL 2.5  
 Lab ID : 2.5 ppbV  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 09:41:18 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:41:08 2019  
 Response via : Initial Calibration

|      | Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|----------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene          | 9.644  | 166  | 136192   | 2.473 | ppbv  | 100      |
| 54)  | 1,1,1,2-Tetrachloroethane  | 11.087 | 131  | 104591   | 2.493 | ppbv  | 99       |
| 55)  | Chlorobenzene              | 10.984 | 112  | 170520   | 2.440 | ppbv  | 96       |
| 56)  | Ethylbenzene               | 11.059 | 91   | 268489   | 2.652 | ppbv  | 99       |
| 57)  | m,p-Xylene                 | 11.244 | 91   | 408173   | 5.665 | ppbv  | 99       |
| 58)  | Bromoform                  | 11.807 | 173  | 207855   | 2.791 | ppbv  | 99       |
| 59)  | Styrene                    | 11.814 | 104  | 146032   | 2.672 | ppbv  | 98       |
| 60)  | 1,1,2,2-Tetrachloroethane  | 12.740 | 83   | 191222   | 2.519 | ppbv  | 99       |
| 61)  | o-Xylene                   | 11.745 | 91   | 213378   | 2.554 | ppbv  | 99       |
| 64)  | Isopropylbenzene           | 12.143 | 105  | 286452   | 2.815 | ppbv  | 99       |
| 66)  | 4-Ethyltoluene             | 12.785 | 105  | 296563   | 2.804 | ppbv  | 98       |
| 67)  | 1,3,5-Trimethylbenzene     | 12.895 | 105  | 244170   | 2.722 | ppbv  | 98       |
| 68)  | 1,2,4-Trimethylbenzene     | 13.356 | 105  | 254770   | 2.845 | ppbv  | 99       |
| 70)  | Benzyl chloride            | 14.044 | 91   | 256908   | 2.478 | ppbv  | 100      |
| 71)  | 1,3-Dichlorobenzene        | 13.661 | 146  | 189629   | 2.592 | ppbv  | 99       |
| 72)  | 1,4-Dichlorobenzene        | 13.758 | 146  | 184104   | 2.590 | ppbv  | 99       |
| 73)  | sec-Butylbenzene           | 13.479 | 105  | 347156   | 2.798 | ppbv  | 99       |
| 74)  | 4-Isopropyltoluene         | 13.648 | 119  | 288638   | 2.872 | ppbv  | 99       |
| 75)  | 1,2-Dichlorobenzene        | 14.135 | 146  | 177950   | 2.621 | ppbv  | 100      |
| 76)  | n-Butylbenzene             | 14.044 | 91   | 256908   | 2.962 | ppbv  | 100      |
| 77)  | 1,2,4-Trichlorobenzene     | 15.306 | 180  | 115504   | 2.050 | ppbv  | 98       |
| 79)  | Hexachlorobutadiene        | 15.306 | 225  | 188039   | 2.747 | ppbv  | 100      |
| 81)  | 1,2-Dichlorotetrafluor...  | 1.601  | 135  | 191879   | 2.406 | ppbv  | 99       |
| 82)  | Vinyl Chloride(sim)        | 1.707  | 62   | 75550    | 2.409 | ppbv  | 100      |
| 83)  | Bromomethane(sim)          | 1.965  | 94   | 109160   | 2.163 | ppbv  | 99       |
| 84)  | Trichlorofluoromethane...  | 2.207  | 101  | 287961   | 2.178 | ppbv  | 99       |
| 85)  | 1,1,1-Trichloroethane(sim) | 5.910  | 97   | 180933   | 2.463 | ppbv# | 98       |
| 86)  | Carbon Tetrachloride(sim)  | 5.812  | 117  | 223916   | 2.567 | ppbv  | 99       |
| 87)  | 1,1-Dichloroethene(sim)    | 2.663  | 61   | 131012   | 2.392 | ppbv  | 99       |
| 88)  | Trichlorotrifluoroetha...  | 2.728  | 101  | 199027   | 2.555 | ppbv  | 100      |
| 89)  | Trans-1,2-Dichloroethe...  | 3.470  | 61   | 94630    | 2.268 | ppbv  | 94       |
| 90)  | 1,1-Dichloroethane(sim)    | 4.279  | 63   | 132659   | 2.389 | ppbv  | 100      |
| 91)  | Cis-1,2-Dichloroethene...  | 5.168  | 61   | 92960    | 2.576 | ppbv  | 99       |
| 92)  | Chloroform(sim)            | 5.668  | 83   | 189630   | 2.599 | ppbv  | 100      |
| 93)  | 1,2-Dichloroethane(sim)    | 6.761  | 62   | 129395   | 2.587 | ppbv  | 99       |
| 95)  | 1,2-dichloropropane(sim)   | 7.973  | 63   | 62984    | 2.821 | ppbv  | 97       |
| 96)  | Bromodichloromethane(sim)  | 8.113  | 83   | 210262   | 2.768 | ppbv  | 99       |
| 97)  | Trichloroethene(sim)       | 7.322  | 130  | 91236    | 2.503 | ppbv  | 99       |
| 98)  | 1,4-Dioxane(sim)           | 8.376  | 88   | 39845    | 2.388 | ppbv  | 98       |
| 99)  | cis-1,3-Dichloropropen...  | 8.908  | 75   | 115569   | 2.930 | ppbv  | 98       |
| 100) | 1,1,2-Trichloroethane(...) | 9.899  | 97   | 96901    | 2.602 | ppbv  | 100      |
| 101) | Dibromochloromethane(sim)  | 10.099 | 129  | 210349   | 2.678 | ppbv  | 100      |
| 102) | 1,2-Dibromoethane(EDB)...  | 10.325 | 107  | 165279   | 2.742 | ppbv  | 99       |
| 103) | Tetrachloroethene(sim)     | 9.644  | 166  | 136192   | 2.761 | ppbv  | 99       |
| 105) | Bromoform(sim)             | 11.807 | 173  | 207607   | 2.968 | ppbv  | 100      |
| 106) | 1,1,1,2-Tetrachloroeth...  | 11.089 | 131  | 113271   | 2.537 | ppbv  | 100      |
| 107) | m,p-Xylene(sim)            | 11.244 | 91   | 408202   | 5.010 | ppbv  | 99       |
| 108) | 1,1,2,2-Tetrachloroeth...  | 12.736 | 83   | 205099   | 2.594 | ppbv  | 99       |
| 111) | Benzyl chloride(sim)       | 14.005 | 91   | 197151   | 2.553 | ppbv  | 100      |
| 112) | 1,3-Dichlorobenzene(sim)   | 13.664 | 146  | 212378   | 2.729 | ppbv  | 99       |
| 113) | 1,4-Dichlorobenzene(sim)   | 13.758 | 146  | 184104   | 2.415 | ppbv  | 99       |
| 114) | sec-Butylbenzene(sim)      | 13.476 | 105  | 377634   | 2.569 | ppbv  | 99       |
| 115) | 4-Isopropyltoluene(sim)    | 13.648 | 119  | 288638   | 2.604 | ppbv  | 99       |
| 116) | 1,2-Dichlorobenzene(sim)   | 14.138 | 146  | 195790   | 2.458 | ppbv  | 99       |
| 117) | n-Butylbenzene(sim)        | 14.044 | 91   | 256908   | 2.626 | ppbv  | 100      |
| 118) | 1,2,4-Trichlorobenzene...  | 15.309 | 180  | 126360   | 2.210 | ppbv  | 98       |
| 119) | Hexachlorobutadiene(sim)   | 15.306 | 225  | 187646   | 2.674 | ppbv  | 99       |



# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_08.D  
 Acq On : 7 Dec 2019 7:29 pm  
 Operator : Keith  
 Client ID : ICAL 2.5  
 Lab ID : 2.5 ppbV  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 09:41:18 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:41:08 2019  
 Response via : Initial Calibration

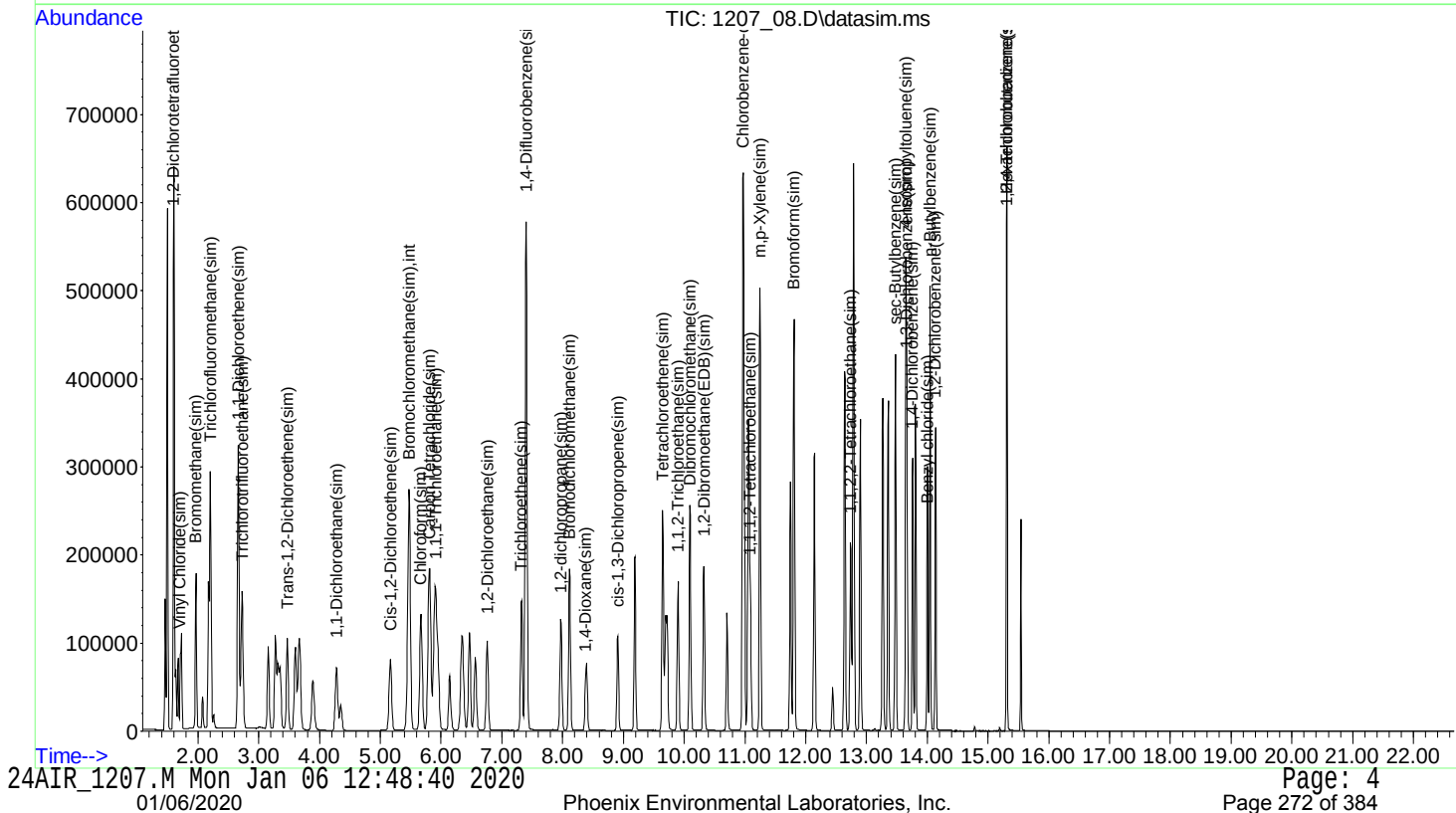
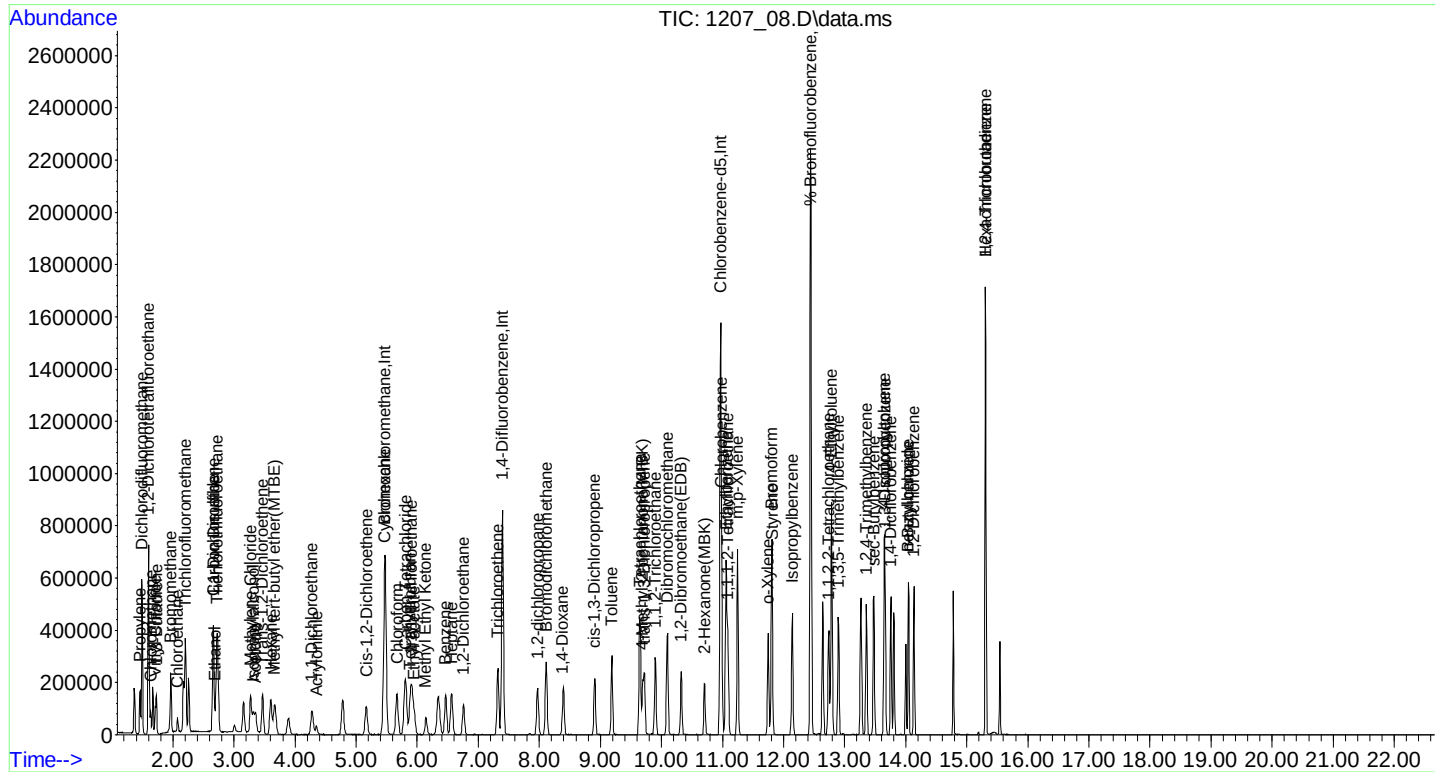
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

```
Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
Data File : 1207_08.D  
Acq On : 7 Dec 2019 7:29 pm  
Operator : Keith  
Client ID : ICAL 2.5  
Lab ID : 2.5 ppbV  
ALS Vial : 10 Sample Multiplier: 1
```

Quant Time: Dec 09 09:41:18 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Mon Dec 09 09:41:08 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_09.D  
 Acq On : 7 Dec 2019 8:02 pm  
 Operator : Keith  
 Client ID : ICAL 5  
 Lab ID : 5.0 ppbv  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 09 09:40:59 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:40:43 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.475  | 130  | 267496   | 10.000 | ng    | -0.01    |
| 36) 1,4-Difluorobenzene      | 7.402  | 114  | 715128   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.967 | 82   | 416889   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.478  | 130  | 281886   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.398  | 114  | 795985   | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.970 | 82   | 449514   | 10.000 | ng    | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 62) % Bromofluorobenzene    | 12.445 | 95    | 638968   | 9.677    | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 70 - 130 | Recovery | =    | 96.80% |

| Target Compounds              | R.T.   | QIon | Response | Conc  | Units | Qvalue |
|-------------------------------|--------|------|----------|-------|-------|--------|
| 2) Propylene                  | 1.458  | 41   | 132376   | 5.169 | ppbv  | 96     |
| 3) Dichlorodifluoromethane    | 1.492  | 101  | 72117    | 6.092 | ppbv  | 98     |
| 4) Chloromethane              | 1.636  | 50   | 108728   | 4.783 | ppbv  | 98     |
| 5) 1,2-Dichlorotetrafluor...  | 1.601  | 135  | 339907   | 4.984 | ppbv  | 99     |
| 6) Vinyl Chloride             | 1.711  | 62   | 123872   | 4.738 | ppbv  | 99     |
| 7) 1,3-Butadiene              | 1.732  | 54   | 77612    | 5.020 | ppbv  | 99     |
| 8) Bromomethane               | 1.965  | 94   | 194043   | 4.646 | ppbv  | 100    |
| 9) Chloroethane               | 2.074  | 64   | 64519    | 4.447 | ppbv  | 99     |
| 10) Ethanol                   | 2.684  | 45   | 35996    | 5.048 | ppbv# | 93     |
| 12) Acetone                   | 3.354  | 43   | 217852   | 5.159 | ppbv  | 99     |
| 13) Trichlorofluoromethane    | 2.204  | 101  | 476954   | 4.781 | ppbv  | 99     |
| 14) Isopropylalcohol          | 3.313  | 45   | 196310   | 4.827 | ppbv  | 99     |
| 15) Acrylonitrile             | 4.351  | 53   | 59801    | 4.843 | ppbv  | 99     |
| 16) 1,1-Dichloroethene        | 2.656  | 61   | 234794   | 4.838 | ppbv  | 99     |
| 17) Methylene Chloride        | 3.272  | 49   | 146546   | 4.814 | ppbv  | 99     |
| 20) Carbon Disulfide          | 2.663  | 76   | 421702   | 5.007 | ppbv  | 100    |
| 21) Trichlorotrifluoroethane  | 2.725  | 101  | 332526   | 4.792 | ppbv  | 100    |
| 22) Trans-1,2-Dichloroethene  | 3.470  | 61   | 184917   | 4.950 | ppbv  | 89     |
| 23) 1,1-Dichloroethane        | 4.278  | 63   | 234303   | 4.931 | ppbv  | 100    |
| 24) Methyl tert-butyl ethe... | 3.662  | 73   | 293192   | 4.814 | ppbv# | 88     |
| 25) Methyl Ethyl Ketone       | 6.145  | 43   | 222094   | 5.049 | ppbv  | 99     |
| 26) Cis-1,2-Dichloroethene    | 5.165  | 61   | 192125   | 5.181 | ppbv  | 100    |
| 27) Hexane                    | 3.600  | 57   | 136601   | 4.660 | ppbv# | 78     |
| 28) Chloroform                | 5.669  | 83   | 337088   | 5.178 | ppbv  | 100    |
| 29) Ethyl acetate             | 5.950  | 43   | 211024   | 4.988 | ppbv  | 100    |
| 30) Tetrahydrofuran           | 5.878  | 42   | 80847    | 5.111 | ppbv  | 97     |
| 31) 1,2-Dichloroethane        | 6.758  | 62   | 245031   | 5.168 | ppbv  | 100    |
| 32) 1,1,1-Trichloroethane     | 5.914  | 97   | 334092   | 4.987 | ppbv  | 99     |
| 33) Benzene                   | 6.470  | 78   | 316081   | 5.138 | ppbv  | 99     |
| 34) Carbon Tetrachloride      | 5.806  | 117  | 404785   | 5.192 | ppbv  | 99     |
| 35) Cyclohexane               | 5.460  | 56   | 145913   | 5.250 | ppbv  | 98     |
| 37) 1,2-dichloropropane       | 7.970  | 63   | 130823   | 5.418 | ppbv  | 96     |
| 38) Bromodichloromethane      | 8.114  | 83   | 380621   | 5.323 | ppbv  | 100    |
| 39) Trichloroethene           | 7.319  | 130  | 189168   | 5.138 | ppbv  | 99     |
| 41) 1,4-Dioxane               | 8.377  | 88   | 79464    | 5.506 | ppbv  | 98     |
| 43) Heptane                   | 6.566  | 43   | 159062   | 5.514 | ppbv  | 100    |
| 44) cis-1,3-Dichloropropene   | 8.904  | 75   | 255581   | 5.827 | ppbv  | 100    |
| 45) 4-Methyl-2-pentanone(M... | 9.691  | 43   | 254894   | 5.874 | ppbv  | 98     |
| 46) trans-1,3-Dichloropropene | 9.720  | 75   | 228683   | 5.615 | ppbv  | 99     |
| 47) 1,1,2-Trichloroethane     | 9.900  | 97   | 167113   | 4.921 | ppbv  | 98     |
| 48) Toluene                   | 9.186  | 91   | 432205   | 5.843 | ppbv  | 99     |
| 49) Dibromochloromethane      | 10.095 | 129  | 399075   | 5.029 | ppbv  | 100    |
| 50) 2-Hexanone(MBK)           | 10.706 | 43   | 276887   | 5.753 | ppbv  | 99     |
| 51) 1,2-Dibromoethane(EDB)    | 10.326 | 107  | 313551   | 5.235 | ppbv  | 99     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_09.D  
 Acq On : 7 Dec 2019 8:02 pm  
 Operator : Keith  
 Client ID : ICAL 5  
 Lab ID : 5.0 ppbv  
 ALS Vial : 11 Sample Multiplier: 1

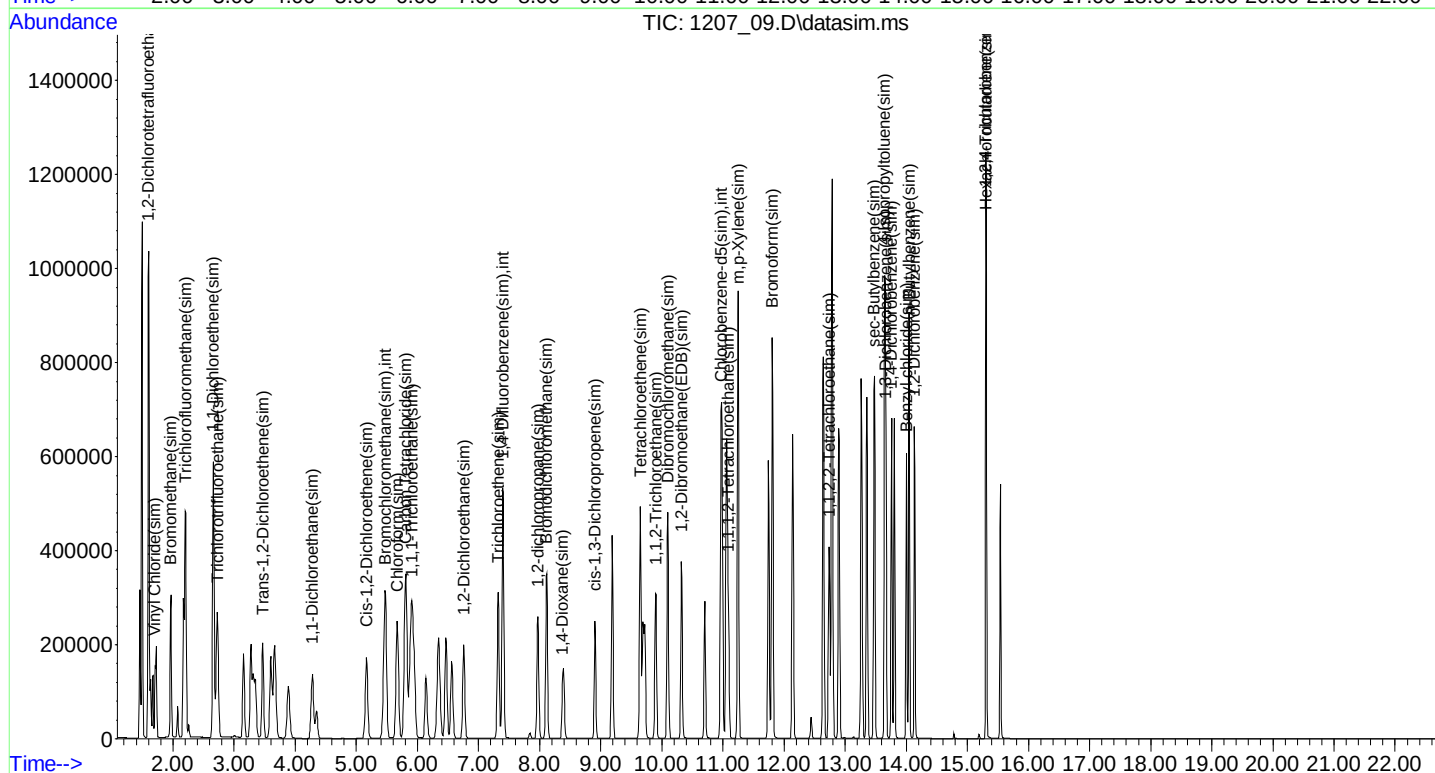
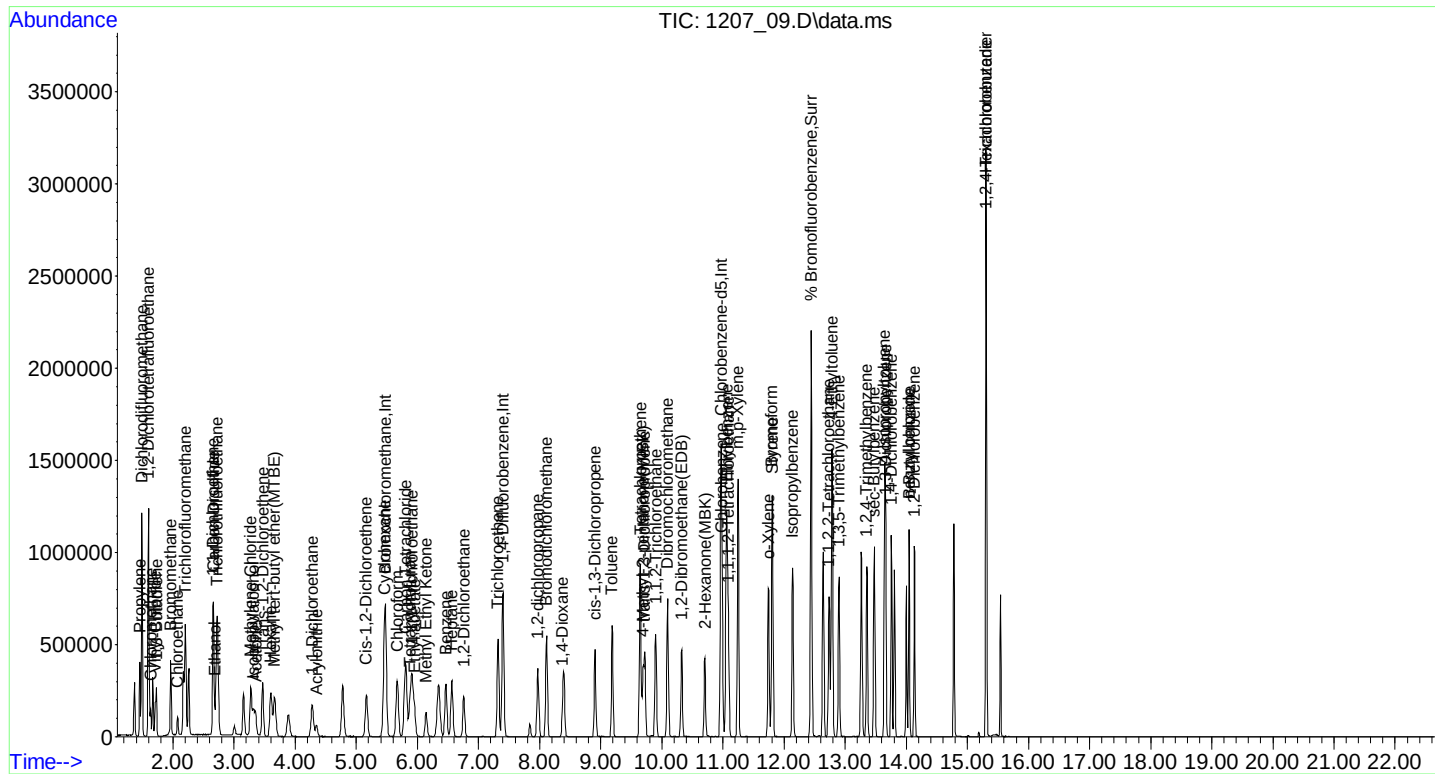
Quant Time: Dec 09 09:40:59 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:40:43 2019  
 Response via : Initial Calibration

|      | Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|----------------------------|--------|------|----------|--------|-------|----------|
| 52)  | Tetrachloroethene          | 9.648  | 166  | 271265   | 5.156  | ppbv  | 99       |
| 54)  | 1,1,1,2-Tetrachloroethane  | 11.091 | 131  | 197547   | 4.911  | ppbv  | 100      |
| 55)  | Chlorobenzene              | 10.988 | 112  | 343015   | 5.119  | ppbv  | 99       |
| 56)  | Ethylbenzene               | 11.063 | 91   | 527806   | 5.437  | ppbv  | 99       |
| 57)  | m,p-Xylene                 | 11.248 | 91   | 819523   | 11.864 | ppbv  | 98       |
| 58)  | Bromoform                  | 11.804 | 173  | 339259   | 4.751  | ppbv  | 100      |
| 59)  | Styrene                    | 11.811 | 104  | 296589   | 5.661  | ppbv  | 98       |
| 60)  | 1,1,2,2-Tetrachloroethane  | 12.737 | 83   | 368341   | 5.061  | ppbv  | 98       |
| 61)  | o-Xylene                   | 11.742 | 91   | 475364   | 5.935  | ppbv  | 100      |
| 64)  | Isopropylbenzene           | 12.140 | 105  | 599835   | 6.149  | ppbv  | 99       |
| 66)  | 4-Ethyltoluene             | 12.782 | 105  | 571906   | 5.641  | ppbv  | 100      |
| 67)  | 1,3,5-Trimethylbenzene     | 12.899 | 105  | 491712   | 5.717  | ppbv  | 99       |
| 68)  | 1,2,4-Trimethylbenzene     | 13.353 | 105  | 508923   | 5.927  | ppbv  | 98       |
| 70)  | Benzyl chloride            | 14.048 | 91   | 500162   | 5.163  | ppbv  | 100      |
| 71)  | 1,3-Dichlorobenzene        | 13.665 | 146  | 367652   | 5.243  | ppbv  | 99       |
| 72)  | 1,4-Dichlorobenzene        | 13.756 | 146  | 377162   | 5.535  | ppbv  | 99       |
| 73)  | sec-Butylbenzene           | 13.477 | 105  | 693260   | 5.828  | ppbv  | 99       |
| 74)  | 4-Isopropyltoluene         | 13.645 | 119  | 587841   | 6.101  | ppbv  | 99       |
| 75)  | 1,2-Dichlorobenzene        | 14.132 | 146  | 355245   | 5.457  | ppbv  | 99       |
| 76)  | n-Butylbenzene             | 14.048 | 91   | 500162   | 6.016  | ppbv  | 99       |
| 77)  | 1,2,4-Trichlorobenzene     | 15.304 | 180  | 264439   | 5.038  | ppbv  | 99       |
| 79)  | Hexachlorobutadiene        | 15.309 | 225  | 340808   | 5.538  | ppbv  | 99       |
| 81)  | 1,2-Dichlorotetrafluor...  | 1.601  | 135  | 339836   | 4.564  | ppbv  | 99       |
| 82)  | Vinyl Chloride(sim)        | 1.707  | 62   | 135629   | 4.632  | ppbv  | 100      |
| 83)  | Bromomethane(sim)          | 1.965  | 94   | 194043   | 4.119  | ppbv  | 100      |
| 84)  | Trichlorofluoromethane...  | 2.207  | 101  | 479527   | 3.885  | ppbv  | 99       |
| 85)  | 1,1,1-Trichloroethane(sim) | 5.914  | 97   | 334092   | 4.871  | ppbv# | 99       |
| 86)  | Carbon Tetrachloride(sim)  | 5.809  | 117  | 418149   | 5.135  | ppbv  | 99       |
| 87)  | 1,1-Dichloroethene(sim)    | 2.656  | 61   | 234794   | 4.591  | ppbv  | 99       |
| 89)  | Trans-1,2-Dichloroethe...  | 3.470  | 61   | 184739   | 4.742  | ppbv  | 89       |
| 90)  | 1,1-Dichloroethane(sim)    | 4.281  | 63   | 255329   | 4.925  | ppbv  | 100      |
| 91)  | Cis-1,2-Dichloroethene...  | 5.165  | 61   | 192125   | 5.702  | ppbv  | 100      |
| 92)  | Chloroform(sim)            | 5.672  | 83   | 359098   | 5.271  | ppbv  | 99       |
| 93)  | 1,2-Dichloroethane(sim)    | 6.758  | 62   | 245031   | 5.246  | ppbv  | 100      |
| 95)  | 1,2-dichloropropane(sim)   | 7.970  | 63   | 130823   | 6.187  | ppbv  | 96       |
| 96)  | Bromodichloromethane(sim)  | 8.117  | 83   | 402194   | 5.589  | ppbv  | 99       |
| 97)  | Trichloroethene(sim)       | 7.319  | 130  | 189168   | 5.479  | ppbv  | 99       |
| 99)  | cis-1,3-Dichloropropen...  | 8.904  | 75   | 255581   | 6.842  | ppbv  | 100      |
| 100) | 1,1,2-Trichloroethane(sim) | 9.903  | 97   | 185210   | 5.251  | ppbv  | 99       |
| 101) | Dibromochloromethane(sim)  | 10.095 | 129  | 399075   | 5.364  | ppbv  | 100      |
| 102) | 1,2-Dibromoethane(EDB)...  | 10.322 | 107  | 331928   | 5.814  | ppbv  | 99       |
| 103) | Tetrachloroethene(sim)     | 9.648  | 166  | 271005   | 5.801  | ppbv  | 99       |
| 105) | Bromoform(sim)             | 11.804 | 173  | 339259   | 5.118  | ppbv  | 99       |
| 106) | 1,1,1,2-Tetrachloroeth...  | 11.087 | 131  | 214376   | 5.066  | ppbv  | 100      |
| 108) | 1,1,2,2-Tetrachloroeth...  | 12.740 | 83   | 393183   | 5.248  | ppbv  | 99       |
| 112) | 1,3-Dichlorobenzene(sim)   | 13.668 | 146  | 403372   | 5.468  | ppbv  | 99       |
| 113) | 1,4-Dichlorobenzene(sim)   | 13.756 | 146  | 378446   | 3.851  | ppbv  | 100      |
| 118) | 1,2,4-Trichlorobenzene...  | 15.302 | 180  | 281447   | 3.232  | ppbv  | 99       |
| 119) | Hexachlorobutadiene(sim)   | 15.309 | 225  | 339727   | 5.108  | ppbv  | 99       |

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

```
Data Path : H:\AIR2019\CHEM24\12DEC\07A\
Data File : 1207_09.D
Acq On : 7 Dec 2019 8:02 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0 ppbv
ALS Vial : 11 Sample Multiplier: 1
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Quant Time: Dec 09 09:40:59 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Mon Dec 09 09:40:43 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_10.D  
 Acq On : 7 Dec 2019 8:38 pm  
 Operator : Keith  
 Client ID : ICAL 25  
 Lab ID : 25 ppbV  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 09 09:37:46 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.485  | 130  | 231027   | 10.000 | ng    | -0.05    |
| 36) 1,4-Difluorobenzene      | 7.404  | 114  | 640431   | 10.000 | ng    | -0.04    |
| 53) Chlorobenzene-d5         | 10.970 | 82   | 410799   | 10.000 | ng    | -0.03    |
| 80) Bromochloromethane(sim)  | 5.481  | 130  | 243369   | 10.000 | ng    | #-0.05   |
| 94) 1,4-Difluorobenzene(sim) | 7.400  | 114  | 712021   | 10.000 | ng    | #-0.05   |
| 104) Chlorobenzene-d5(sim)   | 10.966 | 82   | 440202   | 10.000 | ng    | -0.04    |

System Monitoring Compounds  
 62) % Bromofluorobenzene 12.441 95 692773 11.181 ppbv -0.04  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 111.80%

| Target Compounds              | R.T.   | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|--------|------|----------|--------|-------|--------|
| 2) Propylene                  | 1.458  | 41   | 638336   | 28.858 | ppbv# | 70     |
| 3) Dichlorodifluoromethane    | 1.492  | 101  | 216059   | 21.134 | ppbv# | 70     |
| 4) Chloromethane              | 1.636  | 50   | 329439   | 16.778 | ppbv  | 83     |
| 5) 1,2-Dichlorotetrafluor...  | 1.601  | 135  | 1159218  | 19.681 | ppbv  | 89     |
| 6) Vinyl Chloride             | 1.711  | 62   | 498089   | 22.058 | ppbv  | 95     |
| 7) 1,3-Butadiene              | 1.732  | 54   | 304907   | 22.833 | ppbv# | 43     |
| 8) Bromomethane               | 1.965  | 94   | 794453   | 22.022 | ppbv# | 67     |
| 9) Chloroethane               | 2.081  | 64   | 269008   | 21.469 | ppbv# | 56     |
| 10) Ethanol                   | 2.690  | 45   | 137581   | 22.341 | ppbv# | 77     |
| 12) Acetone                   | 3.347  | 43   | 837958   | 22.976 | ppbv# | 91     |
| 13) Trichlorofluoromethane    | 2.204  | 101  | 1653393  | 19.189 | ppbv# | 88     |
| 14) Isopropylalcohol          | 3.320  | 45   | 763467   | 21.736 | ppbv# | 1      |
| 15) Acrylonitrile             | 4.349  | 53   | 269885   | 25.305 | ppbv# | 82     |
| 16) 1,1-Dichloroethene        | 2.663  | 61   | 934925   | 22.307 | ppbv# | 78     |
| 17) Methylene Chloride        | 3.279  | 49   | 589297   | 22.412 | ppbv# | 87     |
| 20) Carbon Disulfide          | 2.663  | 76   | 1646958  | 22.642 | ppbv  | 99     |
| 21) Trichlorotrifluoroethane  | 2.725  | 101  | 1270911  | 21.207 | ppbv# | 85     |
| 22) Trans-1,2-Dichloroethene  | 3.470  | 61   | 769461   | 23.849 | ppbv# | 91     |
| 23) 1,1-Dichloroethane        | 4.286  | 63   | 1003018  | 24.439 | ppbv  | 100    |
| 24) Methyl tert-butyl ethe... | 3.662  | 73   | 1277386  | 24.283 | ppbv# | 58     |
| 25) Methyl Ethyl Ketone       | 6.141  | 43   | 1059043  | 27.878 | ppbv# | 61     |
| 26) Cis-1,2-Dichloroethene    | 5.168  | 61   | 897814   | 28.033 | ppbv# | 63     |
| 27) Hexane                    | 3.607  | 57   | 634674   | 25.069 | ppbv  | 88     |
| 28) Chloroform                | 5.672  | 83   | 1416238  | 25.187 | ppbv  | 81     |
| 29) Ethyl acetate             | 5.953  | 43   | 906130   | 24.799 | ppbv  | 100    |
| 30) Tetrahydrofuran           | 5.874  | 42   | 359091   | 26.285 | ppbv# | 31     |
| 31) 1,2-Dichloroethane        | 6.761  | 62   | 1072261  | 26.183 | ppbv# | 84     |
| 32) 1,1,1-Trichloroethane     | 5.917  | 97   | 1346525  | 23.271 | ppbv# | 76     |
| 33) Benzene                   | 6.473  | 78   | 1388271  | 26.129 | ppbv# | 81     |
| 34) Carbon Tetrachloride      | 5.809  | 117  | 1612580  | 23.948 | ppbv  | 94     |
| 35) Cyclohexane               | 5.463  | 56   | 678531   | 28.270 | ppbv# | 23     |
| 37) 1,2-dichloropropane       | 7.973  | 63   | 606038   | 28.028 | ppbv# | 57     |
| 38) Bromodichloromethane      | 8.117  | 83   | 1600088  | 24.986 | ppbv  | 83     |
| 39) Trichloroethene           | 7.322  | 130  | 916287   | 27.790 | ppbv  | 90     |
| 41) 1,4-Dioxane               | 8.373  | 88   | 400714   | 31.002 | ppbv# | 63     |
| 43) Heptane                   | 6.569  | 43   | 721568   | 27.929 | ppbv# | 18     |
| 44) cis-1,3-Dichloropropene   | 8.908  | 75   | 1258061  | 32.029 | ppbv  | 93     |
| 45) 4-Methyl-2-pentanone(M... | 9.694  | 43   | 1051812  | 27.065 | ppbv# | 71     |
| 46) trans-1,3-Dichloropropene | 9.723  | 75   | 970550   | 26.608 | ppbv# | 89     |
| 47) 1,1,2-Trichloroethane     | 9.897  | 97   | 783987   | 25.779 | ppbv# | 91     |
| 48) Toluene                   | 9.189  | 91   | 1932152  | 29.169 | ppbv  | 95     |
| 49) Dibromochloromethane      | 10.099 | 129  | 1834715  | 25.819 | ppbv# | 91     |
| 50) 2-Hexanone(MBK)           | 10.702 | 43   | 1343566  | 31.173 | ppbv# | 88     |
| 51) 1,2-Dibromoethane(EDB)    | 10.322 | 107  | 1493440  | 27.844 | ppbv  | 95     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_10.D  
 Acq On : 7 Dec 2019 8:38 pm  
 Operator : Keith  
 Client ID : ICAL 25  
 Lab ID : 25 ppbV  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 09 09:37:46 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

| Compound                        | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|--------|------|----------|--------|-------|----------|
| 52) Tetrachloroethene           | 9.651  | 166  | 1296421  | 27.517 | ppbv  | 91       |
| 54) 1,1,1,2-Tetrachloroethane   | 11.093 | 131  | 926701   | 23.379 | ppbv# | 90       |
| 55) Chlorobenzene               | 10.990 | 112  | 1643299  | 24.890 | ppbv# | 1        |
| 56) Ethylbenzene                | 11.066 | 91   | 2408495  | 25.180 | ppbv  | 91       |
| 57) m,p-Xylene                  | 11.251 | 91   | 3759556  | 55.235 | ppbv  | 93       |
| 58) Bromoform                   | 11.807 | 173  | 1600534  | 22.747 | ppbv  | 89       |
| 59) Styrene                     | 11.814 | 104  | 1458398  | 28.248 | ppbv# | 70       |
| 60) 1,1,2,2-Tetrachloroethane   | 12.740 | 83   | 1664833  | 23.214 | ppbv  | 98       |
| 61) o-Xylene                    | 11.745 | 91   | 2304642  | 29.201 | ppbv# | 90       |
| 64) Isopropylbenzene            | 12.143 | 105  | 2857447  | 29.728 | ppbv# | 91       |
| 66) 4-Ethyltoluene              | 12.785 | 105  | 2659464  | 26.622 | ppbv# | 94       |
| 67) 1,3,5-Trimethylbenzene      | 12.902 | 105  | 2397689  | 28.292 | ppbv# | 87       |
| 68) 1,2,4-Trimethylbenzene      | 13.356 | 105  | 2346939  | 27.738 | ppbv# | 93       |
| 70) Benzyl chloride             | 14.044 | 91   | 2100698  | 30.322 | ppbv# | 76       |
| 71) 1,3-Dichlorobenzene         | 13.668 | 146  | 1629893  | 23.586 | ppbv  | 98       |
| 72) 1,4-Dichlorobenzene         | 13.758 | 146  | 1835962  | 27.345 | ppbv# | 90       |
| 73) sec-Butylbenzene            | 13.479 | 105  | 3146462  | 26.842 | ppbv  | 97       |
| 74) 4-Isopropyltoluene          | 13.648 | 119  | 2713252  | 28.580 | ppbv# | 90       |
| 75) 1,2-Dichlorobenzene         | 14.135 | 146  | 1607707  | 25.062 | ppbv  | 89       |
| 76) n-Butylbenzene              | 14.044 | 91   | 2100698  | 25.642 | ppbv# | 92       |
| 77) 1,2,4-Trichlorobenzene      | 15.306 | 180  | 1136803  | 63.200 | ppbv# | 88       |
| 81) 1,2-Dichlorotetrafluor...   | 1.601  | 135  | 1156643  | 17.992 | ppbv  | 89       |
| 82) Vinyl Chloride(sim)         | 1.707  | 62   | 532597   | 21.067 | ppbv  | 100      |
| 83) Bromomethane(sim)           | 1.965  | 94   | 794453   | 19.532 | ppbv# | 68       |
| 84) Trichlorofluoromethane...   | 2.207  | 101  | 1637404  | 15.367 | ppbv  | 98       |
| 85) 1,1,1-Trichloroethane(...)  | 5.917  | 97   | 1347529  | 22.756 | ppbv# | 82       |
| 86) Carbon Tetrachloride(sim)   | 5.812  | 117  | 1618027  | 23.014 | ppbv  | 96       |
| 87) 1,1-Dichloroethene(sim)     | 2.663  | 61   | 934925   | 21.172 | ppbv# | 69       |
| 89) Trans-1,2-Dichloroethe...   | 3.470  | 61   | 769461   | 22.876 | ppbv# | 81       |
| 90) 1,1-Dichloroethane(sim)     | 4.284  | 63   | 1078190  | 24.089 | ppbv  | 98       |
| 91) Cis-1,2-Dichloroethene...   | 5.168  | 61   | 897869   | 30.863 | ppbv# | 63       |
| 92) Chloroform(sim)             | 5.675  | 83   | 1473459  | 25.052 | ppbv  | 98       |
| 93) 1,2-Dichloroethane(sim)     | 6.761  | 62   | 1072261  | 26.590 | ppbv# | 55       |
| 95) 1,2-dichloropropane(sim)    | 7.973  | 63   | 606038   | 32.043 | ppbv# | 78       |
| 96) Bromodichloromethane(sim)   | 8.113  | 83   | 1616441  | 25.113 | ppbv  | 96       |
| 97) Trichloroethene(sim)        | 7.322  | 130  | 916494   | 29.675 | ppbv# | 88       |
| 98) 1,4-Dioxane(sim)            | 8.376  | 88   | 437684   | 16.964 | ppbv  | 100      |
| 99) cis-1,3-Dichloropropen...   | 8.908  | 75   | 1258061  | 37.649 | ppbv  | 93       |
| 100) 1,1,2-Trichloroethane(...) | 9.899  | 97   | 839564   | 26.610 | ppbv  | 93       |
| 101) Dibromochloromethane(sim)  | 10.099 | 129  | 1834681  | 27.568 | ppbv  | 93       |
| 102) 1,2-Dibromoethane(EDB)...  | 10.325 | 107  | 1505117  | 29.471 | ppbv  | 92       |
| 103) Tetrachloroethene(sim)     | 9.651  | 166  | 1296311  | 31.022 | ppbv  | 77       |
| 105) Bromoform(sim)             | 11.807 | 173  | 1599890  | 24.645 | ppbv# | 1        |
| 106) 1,1,1,2-Tetrachloroeth...  | 11.089 | 131  | 952881   | 22.994 | ppbv  | 97       |
| 107) m,p-Xylene(sim)            | 11.251 | 91   | 3760649  | 35.814 | ppbv# | 93       |
| 108) 1,1,2,2-Tetrachloroeth...  | 12.743 | 83   | 1702823  | 23.207 | ppbv  | 98       |
| 111) Benzyl chloride(sim)       | 14.005 | 91   | 2182439  | 15.597 | ppbv  | 62       |
| 112) 1,3-Dichlorobenzene(sim)   | 13.670 | 146  | 1673136  | 23.162 | ppbv  | 96       |
| 113) 1,4-Dichlorobenzene(sim)   | 13.758 | 146  | 1832912  | 18.241 | ppbv  | 90       |
| 114) sec-Butylbenzene(sim)      | 13.482 | 105  | 3215546  | 17.210 | ppbv  | 93       |
| 115) 4-Isopropyltoluene(sim)    | 13.648 | 119  | 2713252  | 16.038 | ppbv# | 90       |
| 116) 1,2-Dichlorobenzene(sim)   | 14.138 | 146  | 1616973  | 18.875 | ppbv  | 96       |
| 117) n-Butylbenzene(sim)        | 14.044 | 91   | 2100698  | 15.760 | ppbv  | 92       |
| 118) 1,2,4-Trichlorobenzene...  | 15.304 | 180  | 1111916  | 17.684 | ppbv# | 73       |
| 119) Hexachlorobutadiene(sim)   | 15.310 | 225  | 1132853  | 17.393 | ppbv# | 89       |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
Data File : 1207\_10.D  
Acq On : 7 Dec 2019 8:38 pm  
Operator : Keith  
Client ID : ICAL 25  
Lab ID : 25 ppbV  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 09 09:37:46 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Wed Dec 04 08:59:27 2019  
Response via : Initial Calibration

| Compound                                                                    | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                       |      |      |          |      |       |          |
| (#)out of range (m>manual integration reviewed by analyst (+)signals summed |      |      |          |      |       |          |





## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_11.D  
 Acq On : 7 Dec 2019 9:18 pm  
 Operator : Keith  
 Client ID : ICAL 40  
 Lab ID : 40  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 09 09:38:40 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:38:28 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.485  | 130  | 254707   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.405  | 114  | 724277   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.970 | 82   | 443605   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.481  | 130  | 264142   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.407  | 114  | 800356   | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.973 | 82   | 463192   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

62) % Bromofluorobenzene 12.441 95 758559 10.140 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 101.40%

## Target Compounds

|                               |        |     |         |        |      | Qvalue |
|-------------------------------|--------|-----|---------|--------|------|--------|
| 2) Propylene                  | 1.458  | 41  | 1046215 | 42.901 | ppbv | 99     |
| 3) Dichlorodifluoromethane    | 1.492  | 101 | 286736  | 25.440 | ppbv | 99     |
| 4) Chloromethane              | 1.636  | 50  | 558021  | 25.778 | ppbv | 100    |
| 5) 1,2-Dichlorotetrafluor...  | 1.602  | 135 | 1798358 | 27.694 | ppbv | 99     |
| 6) Vinyl Chloride             | 1.711  | 62  | 825651  | 33.165 | ppbv | 99     |
| 7) 1,3-Butadiene              | 1.732  | 54  | 506129  | 34.377 | ppbv | 97     |
| 8) Bromomethane               | 1.965  | 94  | 1245964 | 31.327 | ppbv | 99     |
| 9) Chloroethane               | 2.081  | 64  | 443332  | 32.091 | ppbv | 99     |
| 10) Ethanol                   | 2.697  | 45  | 212626  | 31.317 | ppbv | 98     |
| 12) Acetone                   | 3.354  | 43  | 1303112 | 32.409 | ppbv | 98     |
| 13) Trichlorofluoromethane    | 2.204  | 101 | 2410588 | 25.376 | ppbv | 100    |
| 14) Isopropylalcohol          | 3.327  | 45  | 1209377 | 31.231 | ppbv | 98     |
| 15) Acrylonitrile             | 4.354  | 53  | 471421  | 40.093 | ppbv | 99     |
| 16) 1,1-Dichloroethene        | 2.663  | 61  | 1473531 | 31.889 | ppbv | 100    |
| 17) Methylene Chloride        | 3.279  | 49  | 936270  | 32.298 | ppbv | 100    |
| 20) Carbon Disulfide          | 2.663  | 76  | 2602296 | 32.450 | ppbv | 100    |
| 21) Trichlorotrifluoroethane  | 2.725  | 101 | 1988275 | 30.093 | ppbv | 99     |
| 22) Trans-1,2-Dichloroethene  | 3.477  | 61  | 1326249 | 37.284 | ppbv | 99     |
| 23) 1,1-Dichloroethane        | 4.281  | 63  | 1693158 | 37.419 | ppbv | 100    |
| 24) Methyl tert-butyl ethe... | 3.662  | 73  | 2162691 | 37.290 | ppbv | 100    |
| 25) Methyl Ethyl Ketone       | 6.141  | 43  | 1818422 | 43.417 | ppbv | 98     |
| 26) Cis-1,2-Dichloroethene    | 5.168  | 61  | 1498758 | 42.445 | ppbv | 97     |
| 27) Hexane                    | 3.607  | 57  | 1114854 | 39.942 | ppbv | 95     |
| 28) Chloroform                | 5.672  | 83  | 2319770 | 37.420 | ppbv | 99     |
| 29) Ethyl acetate             | 5.954  | 43  | 1539339 | 38.213 | ppbv | 96     |
| 30) Tetrahydrofuran           | 5.874  | 42  | 616223  | 40.913 | ppbv | 97     |
| 31) 1,2-Dichloroethane        | 6.761  | 62  | 1716757 | 38.024 | ppbv | 99     |
| 32) 1,1,1-Trichloroethane     | 5.917  | 97  | 2212758 | 34.686 | ppbv | 99     |
| 33) Benzene                   | 6.473  | 78  | 2395181 | 40.889 | ppbv | 99     |
| 34) Carbon Tetrachloride      | 5.817  | 117 | 2638577 | 35.542 | ppbv | 100    |
| 35) Cyclohexane               | 5.463  | 56  | 1151823 | 43.528 | ppbv | 97     |
| 37) 1,2-dichloropropane       | 7.973  | 63  | 1029840 | 42.114 | ppbv | 94     |
| 38) Bromodichloromethane      | 8.117  | 83  | 2601107 | 35.916 | ppbv | 99     |
| 39) Trichloroethene           | 7.322  | 130 | 1584245 | 42.485 | ppbv | 99     |
| 41) 1,4-Dioxane               | 8.373  | 88  | 684912  | 46.855 | ppbv | 98     |
| 43) Heptane                   | 6.569  | 43  | 1202392 | 41.153 | ppbv | 97     |
| 44) cis-1,3-Dichloropropene   | 8.908  | 75  | 2129149 | 47.930 | ppbv | 99     |
| 45) 4-Methyl-2-pentanone(M... | 9.695  | 43  | 1712089 | 38.955 | ppbv | 97     |
| 46) trans-1,3-Dichloropropene | 9.731  | 75  | 1606038 | 38.934 | ppbv | 99     |
| 47) 1,1,2-Trichloroethane     | 9.904  | 97  | 1333599 | 38.775 | ppbv | 99     |
| 48) Toluene                   | 9.189  | 91  | 3253832 | 43.436 | ppbv | 99     |
| 49) Dibromochloromethane      | 10.099 | 129 | 3038466 | 37.809 | ppbv | 100    |
| 50) 2-Hexanone(MBK)           | 10.702 | 43  | 2180973 | 44.744 | ppbv | 97     |
| 51) 1,2-Dibromoethane(EDB)    | 10.323 | 107 | 2524436 | 41.618 | ppbv | 99     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_11.D  
 Acq On : 7 Dec 2019 9:18 pm  
 Operator : Keith  
 Client ID : ICAL 40  
 Lab ID : 40  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 09 09:38:40 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:38:28 2019  
 Response via : Initial Calibration

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|-------|----------|
| 52)  | Tetrachloroethene         | 9.651  | 166  | 2187816  | 41.061 | ppbv  | 99       |
| 54)  | 1,1,1,2-Tetrachloroethane | 11.094 | 131  | 1555655  | 36.344 | ppbv  | 100      |
| 55)  | Chlorobenzene             | 10.991 | 112  | 2768336  | 38.829 | ppbv  | 99       |
| 56)  | Ethylbenzene              | 11.066 | 91   | 3926094  | 38.010 | ppbv  | 98       |
| 57)  | m,p-Xylene                | 11.251 | 91   | 6074220  | 82.642 | ppbv  | 97       |
| 58)  | Bromoform                 | 11.807 | 173  | 2575100  | 33.891 | ppbv  | 99       |
| 59)  | Styrene                   | 11.814 | 104  | 2445084  | 43.857 | ppbv  | 97       |
| 60)  | 1,1,2,2-Tetrachloroethane | 12.740 | 83   | 2717664  | 35.092 | ppbv# | 93       |
| 61)  | o-Xylene                  | 11.745 | 91   | 3754859  | 44.058 | ppbv  | 98       |
| 64)  | Isopropylbenzene          | 12.143 | 105  | 4580063  | 44.126 | ppbv  | 98       |
| 66)  | 4-Ethyltoluene            | 12.792 | 105  | 4248671  | 39.386 | ppbv  | 98       |
| 67)  | 1,3,5-Trimethylbenzene    | 12.902 | 105  | 3886358  | 42.466 | ppbv  | 98       |
| 68)  | 1,2,4-Trimethylbenzene    | 13.363 | 105  | 3756293  | 41.112 | ppbv  | 98       |
| 71)  | 1,3-Dichlorobenzene       | 13.668 | 146  | 2544394  | 34.097 | ppbv  | 99       |
| 72)  | 1,4-Dichlorobenzene       | 13.759 | 146  | 2855782  | 39.389 | ppbv  | 99       |
| 73)  | sec-Butylbenzene          | 13.480 | 105  | 4993980  | 39.453 | ppbv  | 99       |
| 74)  | 4-Isopropyltoluene        | 13.648 | 119  | 4244421  | 41.402 | ppbv  | 99       |
| 75)  | 1,2-Dichlorobenzene       | 14.135 | 146  | 2460320  | 35.517 | ppbv  | 99       |
| 76)  | n-Butylbenzene            | 14.051 | 91   | 3240660  | 36.632 | ppbv  | 99       |
| 81)  | 1,2-Dichlorotetrafluor... | 1.602  | 135  | 1795872  | 25.739 | ppbv  | 99       |
| 82)  | Vinyl Chloride(sim)       | 1.707  | 62   | 874209   | 31.860 | ppbv  | 99       |
| 83)  | Bromomethane(sim)         | 1.965  | 94   | 1247281  | 28.254 | ppbv  | 99       |
| 84)  | Trichlorofluoromethane... | 2.207  | 101  | 2351708  | 20.334 | ppbv  | 99       |
| 85)  | 1,1,1-Trichloroethane(... | 5.917  | 97   | 2214885  | 34.461 | ppbv# | 99       |
| 86)  | Carbon Tetrachloride(sim) | 5.812  | 117  | 2551346  | 33.436 | ppbv  | 99       |
| 87)  | 1,1-Dichloroethene(sim)   | 2.663  | 61   | 1473531  | 30.745 | ppbv  | 100      |
| 89)  | Trans-1,2-Dichloroethe... | 3.477  | 61   | 1326249  | 36.329 | ppbv  | 99       |
| 90)  | 1,1-Dichloroethane(sim)   | 4.284  | 63   | 1782817  | 36.699 | ppbv  | 99       |
| 91)  | Cis-1,2-Dichloroethene... | 5.168  | 61   | 1499982  | 47.504 | ppbv  | 97       |
| 92)  | Chloroform(sim)           | 5.675  | 83   | 2371330  | 37.148 | ppbv  | 98       |
| 93)  | 1,2-Dichloroethane(sim)   | 6.761  | 62   | 1717144  | 39.233 | ppbv  | 99       |
| 95)  | 1,2-dichloropropane(sim)  | 7.973  | 63   | 1029840  | 48.440 | ppbv  | 94       |
| 96)  | Bromodichloromethane(sim) | 8.120  | 83   | 2546877  | 35.201 | ppbv  | 98       |
| 97)  | Trichloroethene(sim)      | 7.322  | 130  | 1584245  | 45.635 | ppbv  | 99       |
| 99)  | cis-1,3-Dichloropropen... | 8.908  | 75   | 2129660  | 0.000  | ppbv  | 99       |
| 100) | 1,1,2-Trichloroethane(... | 9.900  | 97   | 1399646  | 39.465 | ppbv  | 99       |
| 101) | Dibromochloromethane(sim) | 10.099 | 129  | 3038466  | 40.617 | ppbv  | 100      |
| 102) | 1,2-Dibromoethane(EDB)... | 10.326 | 107  | 2439465  | 42.494 | ppbv  | 97       |
| 103) | Tetrachloroethene(sim)    | 9.651  | 166  | 2187217  | 46.566 | ppbv  | 99       |
| 105) | Bromoform(sim)            | 11.807 | 173  | 2572247  | 37.657 | ppbv  | 99       |
| 106) | 1,1,1,2-Tetrachloroeth... | 11.096 | 131  | 1557009  | 35.708 | ppbv  | 99       |
| 108) | 1,1,2,2-Tetrachloroeth... | 12.743 | 83   | 2708430  | 35.080 | ppbv  | 97       |
| 112) | 1,3-Dichlorobenzene(sim)  | 13.671 | 146  | 2542282  | 33.447 | ppbv  | 99       |
| 119) | Hexachlorobutadiene(sim)  | 15.311 | 225  | 1485336  | 21.673 | ppbv  | 100      |

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

```

Data Path   : H:\AIR2019\CHEM24\12DEC\07A\
Data File   : 1207_11.D
Acq On      : 7 Dec 2019    9:18 pm
Operator    : Keith
Client ID   : ICAL 40
Lab ID      : 40
ALS Vial    : 14    Sample Multiplier: 1

```

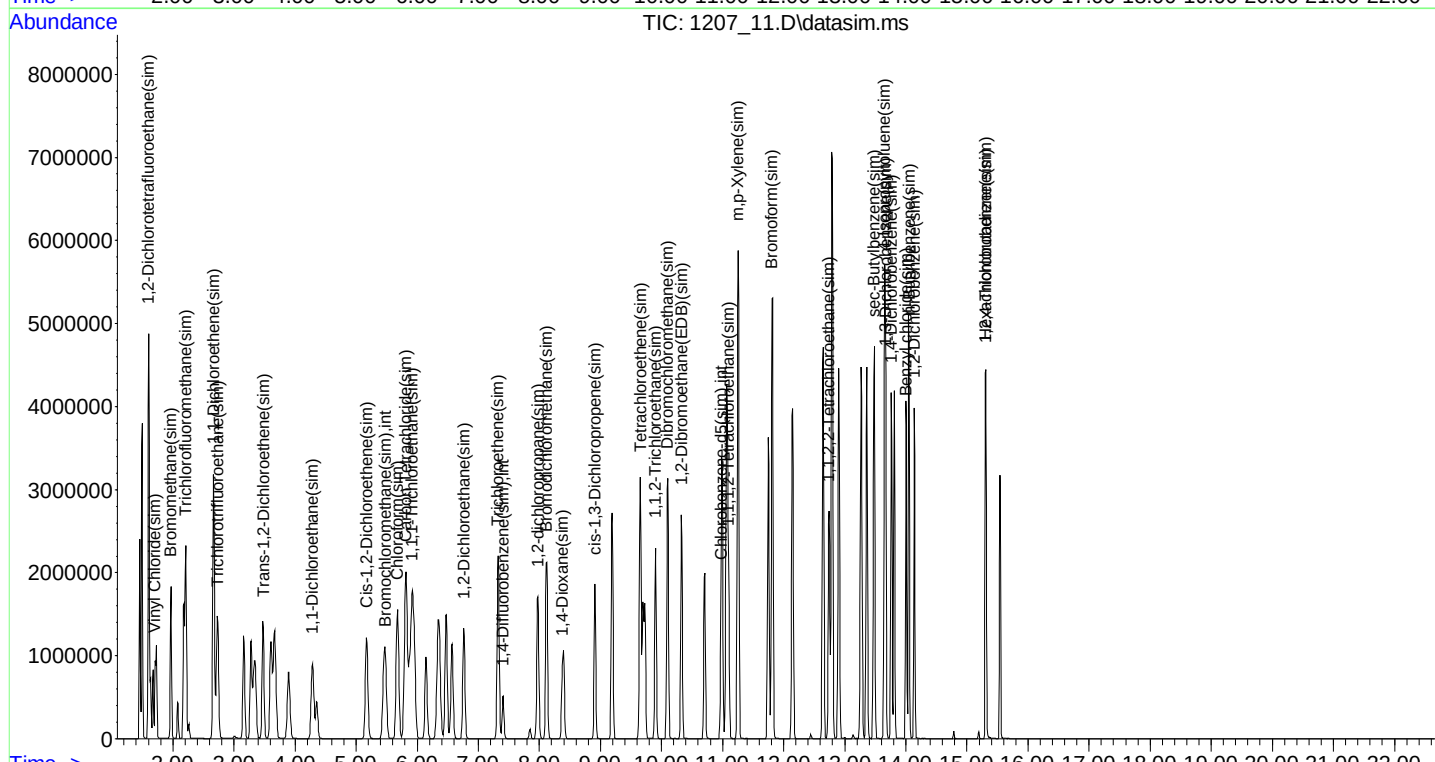
TIC: 1207\_11.D\data.ms

Abundance

Time-->

Labeled compounds (from left to right):

- Propylene Dichloride
- Dichloroethane
- Bromomethane
- Chloroethane
- Trichlorofluoroethane
- Ethanol
- Trichloroethylene
- Acetone
- Methyl Chloride
- Methyl tert-butyl ether (MTBE)
- Acrylonitrile
- Cis-1,2-Dichloroethene
- Bromochloromethane
- Perfluorobenzene
- Methyl Ethyl Ketone
- Benzene
- 1,2-Dichloroethane
- 1,4-Difluorobenzene
- Trichloroethene
- 1,2-dichloropropane
- Bromodichloromethane
- cis-1,3-Dichloropropene
- Toluene
- 4-Methyl-2-pentanone
- 1,1,2-Trichloroethane
- 1,1,2-Dibromoethane
- 1,2-Dibromoethane (EDB)
- 2-Hexanone (MBK)
- Chlorobenzene
- 1,1,2-Trichloroethane
- n,p-Xylene
- o-Xylene
- Isopropylbenzene
- % Bromofluorobenzene, Surrogate
- 1,2-Tetrachloroethane
- 1,3,5-Trimethylbenzene
- 1,3,6-Ethyltoluene
- 1,3,5-Tribenzene
- 1,2,4-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,2,4-Trichlorobenzene



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_13.D  
 Acq On : 7 Dec 2019 10:22 pm  
 Operator : Keith  
 Client ID : ICAL 1  
 Lab ID : 1ppb  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 09 09:46:08 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.470  | 130  | 393482   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.398  | 114  | 1030453  | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.963 | 82   | 546106   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.473  | 130  | 407685   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.401  | 114  | 1136624  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.966 | 82   | 590777   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

62) % Bromofluorobenzene 12.441 95 814147 9.686 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 96.90%

## Target Compounds

|                               |        |     |        |       | Qvalue |     |
|-------------------------------|--------|-----|--------|-------|--------|-----|
| 2) Propylene                  | 1.464  | 41  | 36460  | 0.968 | ppbv#  | 78  |
| 3) Dichlorodifluoromethane    | 1.492  | 101 | 20746  | 1.191 | ppbv#  | 86  |
| 4) Chloromethane              | 1.636  | 50  | 42238  | 1.263 | ppbv   | 96  |
| 5) 1,2-Dichlorotetrafluor...  | 1.602  | 135 | 128666 | 1.283 | ppbv   | 95  |
| 6) Vinyl Chloride             | 1.711  | 62  | 47186  | 1.227 | ppbv#  | 48  |
| 7) 1,3-Butadiene              | 1.732  | 54  | 28059  | 1.234 | ppbv#  | 38  |
| 8) Bromomethane               | 1.965  | 94  | 61350  | 0.999 | ppbv   | 91  |
| 9) Chloroethane               | 2.074  | 64  | 20255  | 0.949 | ppbv   | 88  |
| 10) Ethanol                   | 2.690  | 45  | 13400  | 1.278 | ppbv#  | 77  |
| 12) Acetone                   | 3.354  | 43  | 70612  | 1.137 | ppbv   | 96  |
| 13) Trichlorofluoromethane    | 2.204  | 101 | 140337 | 0.956 | ppbv#  | 82  |
| 14) Isopropylalcohol          | 3.320  | 45  | 58776  | 0.983 | ppbv#  | 1   |
| 15) Acrylonitrile             | 4.349  | 53  | 19092  | 1.051 | ppbv#  | 7   |
| 16) 1,1-Dichloroethene        | 2.656  | 61  | 69612  | 0.975 | ppbv#  | 71  |
| 17) Methylene Chloride        | 3.272  | 49  | 42631  | 0.952 | ppbv#  | 79  |
| 20) Carbon Disulfide          | 2.663  | 76  | 127935 | 1.033 | ppbv   | 98  |
| 21) Trichlorotrifluoroethane  | 2.718  | 101 | 102059 | 1.000 | ppbv   | 96  |
| 22) Trans-1,2-Dichloroethene  | 3.463  | 61  | 54265  | 0.987 | ppbv#  | 88  |
| 23) 1,1-Dichloroethane        | 4.281  | 63  | 70255  | 1.005 | ppbv   | 69  |
| 24) Methyl tert-butyl ethe... | 3.675  | 73  | 96445  | 1.076 | ppbv#  | 59  |
| 25) Methyl Ethyl Ketone       | 6.148  | 43  | 60970  | 0.942 | ppbv#  | 45  |
| 26) Cis-1,2-Dichloroethene    | 5.168  | 61  | 53992  | 0.990 | ppbv#  | 67  |
| 27) Hexane                    | 3.607  | 57  | 44420  | 1.030 | ppbv#  | 64  |
| 28) Chloroform                | 5.665  | 83  | 94237  | 0.984 | ppbv   | 87  |
| 29) Ethyl acetate             | 5.961  | 43  | 63488  | 1.020 | ppbv#  | 33  |
| 30) Tetrahydrofuran           | 5.881  | 42  | 24221  | 1.041 | ppbv   | 100 |
| 31) 1,2-Dichloroethane        | 6.761  | 62  | 64807  | 0.929 | ppbv#  | 73  |
| 32) 1,1,1-Trichloroethane     | 5.910  | 97  | 96720  | 0.981 | ppbv#  | 77  |
| 33) Benzene                   | 6.466  | 78  | 94915  | 1.049 | ppbv#  | 91  |
| 34) Carbon Tetrachloride      | 5.802  | 117 | 112029 | 0.977 | ppbv   | 98  |
| 35) Cyclohexane               | 5.456  | 56  | 39713  | 0.971 | ppbv#  | 89  |
| 37) 1,2-dichloropropane       | 7.966  | 63  | 33942  | 0.976 | ppbv#  | 61  |
| 38) Bromodichloromethane      | 8.110  | 83  | 99049  | 0.961 | ppbv   | 97  |
| 39) Trichloroethene           | 7.322  | 130 | 53859  | 1.015 | ppbv   | 91  |
| 41) 1,4-Dioxane               | 8.381  | 88  | 19668  | 0.946 | ppbv   | 100 |
| 43) Heptane                   | 6.569  | 43  | 42851  | 1.031 | ppbv   | 99  |
| 44) cis-1,3-Dichloropropene   | 8.908  | 75  | 59510  | 0.942 | ppbv#  | 48  |
| 45) 4-Methyl-2-pentanone(M... | 9.694  | 43  | 64708  | 1.035 | ppbv#  | 47  |
| 46) trans-1,3-Dichloropropene | 9.723  | 75  | 62286  | 1.061 | ppbv   | 94  |
| 47) 1,1,2-Trichloroethane     | 9.897  | 97  | 49372  | 1.009 | ppbv#  | 65  |
| 48) Toluene                   | 9.189  | 91  | 107774 | 1.011 | ppbv   | 91  |
| 49) Dibromochloromethane      | 10.099 | 129 | 112751 | 0.986 | ppbv#  | 96  |
| 50) 2-Hexanone(MBK)           | 10.709 | 43  | 59548  | 0.859 | ppbv#  | 70  |
| 51) 1,2-Dibromoethane(EDB)    | 10.323 | 107 | 83718  | 0.970 | ppbv   | 97  |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_13.D  
 Acq On : 7 Dec 2019 10:22 pm  
 Operator : Keith  
 Client ID : ICAL 1  
 Lab ID : 1ppb  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 09 09:46:08 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene         | 9.644  | 166  | 76784    | 1.013 | ppbv  | 94       |
| 54)  | 1,1,1,2-Tetrachloroethane | 11.087 | 131  | 55511    | 1.053 | ppbv# | 81       |
| 55)  | Chlorobenzene             | 10.984 | 112  | 89389    | 1.018 | ppbv# | 1        |
| 56)  | Ethylbenzene              | 11.066 | 91   | 138732   | 1.091 | ppbv  | 88       |
| 57)  | m,p-Xylene                | 11.244 | 91   | 205325   | 2.269 | ppbv# | 91       |
| 58)  | Bromoform                 | 11.800 | 173  | 105670   | 1.130 | ppbv  | 92       |
| 59)  | Styrene                   | 11.807 | 104  | 72971    | 1.063 | ppbv# | 39       |
| 60)  | 1,1,2,2-Tetrachloroethane | 12.733 | 83   | 101846   | 1.068 | ppbv  | 85       |
| 61)  | o-Xylene                  | 11.745 | 91   | 99316    | 0.947 | ppbv  | 89       |
| 64)  | Isopropylbenzene          | 12.143 | 105  | 134528   | 1.053 | ppbv  | 97       |
| 66)  | 4-Ethyltoluene            | 12.785 | 105  | 151723   | 1.143 | ppbv# | 69       |
| 67)  | 1,3,5-Trimethylbenzene    | 12.895 | 105  | 122073   | 1.084 | ppbv# | 93       |
| 68)  | 1,2,4-Trimethylbenzene    | 13.356 | 105  | 125526   | 1.116 | ppbv# | 95       |
| 70)  | Benzyl chloride           | 14.044 | 91   | 120808   | 0.928 | ppbv# | 88       |
| 71)  | 1,3-Dichlorobenzene       | 13.661 | 146  | 101593   | 1.106 | ppbv  | 95       |
| 72)  | 1,4-Dichlorobenzene       | 13.758 | 146  | 92911    | 1.041 | ppbv# | 92       |
| 73)  | sec-Butylbenzene          | 13.473 | 105  | 171579   | 1.101 | ppbv# | 92       |
| 74)  | 4-Isopropyltoluene        | 13.648 | 119  | 135093   | 1.070 | ppbv# | 90       |
| 75)  | 1,2-Dichlorobenzene       | 14.135 | 146  | 88803    | 1.041 | ppbv  | 92       |
| 76)  | n-Butylbenzene            | 14.044 | 91   | 120808   | 1.109 | ppbv# | 92       |
| 77)  | 1,2,4-Trichlorobenzene    | 15.306 | 180  | 65024    | 0.948 | ppbv# | 76       |
| 79)  | Hexachlorobutadiene       | 15.310 | 225  | 98718    | 1.108 | ppbv  | 98       |
| 81)  | 1,2-Dichlorotetrafluor... | 1.602  | 135  | 128666   | 1.195 | ppbv  | 95       |
| 82)  | Vinyl Chloride(sim)       | 1.707  | 62   | 50456    | 1.191 | ppbv  | 91       |
| 83)  | Bromomethane(sim)         | 1.965  | 94   | 61350    | 0.900 | ppbv# | 53       |
| 84)  | Trichlorofluoromethane... | 2.200  | 101  | 144790   | 0.811 | ppbv  | 94       |
| 85)  | 1,1,1-Trichloroethane(... | 5.910  | 97   | 96720    | 0.975 | ppbv# | 78       |
| 86)  | Carbon Tetrachloride(sim) | 5.805  | 117  | 112933   | 0.959 | ppbv  | 99       |
| 87)  | 1,1-Dichloroethene(sim)   | 2.656  | 61   | 69612    | 0.941 | ppbv# | 58       |
| 88)  | Trichlorotrifluoroetha... | 2.728  | 101  | 105295   | 0.909 | ppbv  | 98       |
| 89)  | Trans-1,2-Dichloroethe... | 3.463  | 61   | 54151    | 0.961 | ppbv# | 88       |
| 90)  | 1,1-Dichloroethane(sim)   | 4.279  | 63   | 76112    | 1.015 | ppbv  | 98       |
| 91)  | Cis-1,2-Dichloroethene... | 5.168  | 61   | 53992    | 1.108 | ppbv# | 65       |
| 92)  | Chloroform(sim)           | 5.668  | 83   | 98435    | 0.999 | ppbv# | 95       |
| 93)  | 1,2-Dichloroethane(sim)   | 6.761  | 62   | 64807    | 0.959 | ppbv  | 80       |
| 95)  | 1,2-dichloropropane(sim)  | 7.966  | 63   | 33942    | 1.124 | ppbv# | 75       |
| 96)  | Bromodichloromethane(sim) | 8.113  | 83   | 105429   | 1.026 | ppbv  | 98       |
| 97)  | Trichloroethene(sim)      | 7.322  | 130  | 53859    | 1.092 | ppbv# | 84       |
| 98)  | 1,4-Dioxane(sim)          | 8.383  | 88   | 21990    | 1.125 | ppbv# | 15       |
| 99)  | cis-1,3-Dichloropropen... | 8.908  | 75   | 59509    | 1.097 | ppbv# | 53       |
| 100) | 1,1,2-Trichloroethane(... | 9.899  | 97   | 54500    | 1.082 | ppbv  | 98       |
| 101) | Dibromochloromethane(sim) | 10.099 | 129  | 112589   | 1.060 | ppbv  | 99       |
| 102) | 1,2-Dibromoethane(EDB)... | 10.325 | 107  | 89916    | 1.103 | ppbv  | 97       |
| 103) | Tetrachloroethene(sim)    | 9.644  | 166  | 76673    | 1.149 | ppbv# | 84       |
| 105) | Bromoform(sim)            | 11.800 | 173  | 105486   | 1.211 | ppbv# | 81       |
| 106) | 1,1,1,2-Tetrachloroeth... | 11.089 | 131  | 59310    | 1.066 | ppbv  | 98       |
| 107) | m,p-Xylene(sim)           | 11.244 | 91   | 205384   | 2.194 | ppbv# | 91       |
| 108) | 1,1,2,2-Tetrachloroeth... | 12.736 | 83   | 109069   | 1.108 | ppbv  | 99       |
| 111) | Benzyl chloride(sim)      | 13.999 | 91   | 86142    | 1.039 | ppbv  | 93       |
| 112) | 1,3-Dichlorobenzene(sim)  | 13.664 | 146  | 113085   | 1.166 | ppbv  | 98       |
| 113) | 1,4-Dichlorobenzene(sim)  | 13.758 | 146  | 92911    | 1.048 | ppbv  | 87       |
| 114) | sec-Butylbenzene(sim)     | 13.476 | 105  | 184231   | 1.063 | ppbv  | 97       |
| 115) | 4-Isopropyltoluene(sim)   | 13.648 | 119  | 135093   | 1.078 | ppbv# | 90       |
| 116) | 1,2-Dichlorobenzene(sim)  | 14.138 | 146  | 97801    | 1.023 | ppbv  | 99       |
| 117) | n-Butylbenzene(sim)       | 14.044 | 91   | 120808   | 1.064 | ppbv  | 92       |
| 118) | 1,2,4-Trichlorobenzene... | 15.304 | 180  | 70691    | 1.181 | ppbv# | 88       |
| 119) | Hexachlorobutadiene(sim)  | 15.310 | 225  | 98515    | 1.127 | ppbv# | 81       |

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_13.D  
 Acq On : 7 Dec 2019 10:22 pm  
 Operator : Keith  
 Client ID : ICAL 1  
 Lab ID : 1ppb  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 09 09:46:08 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

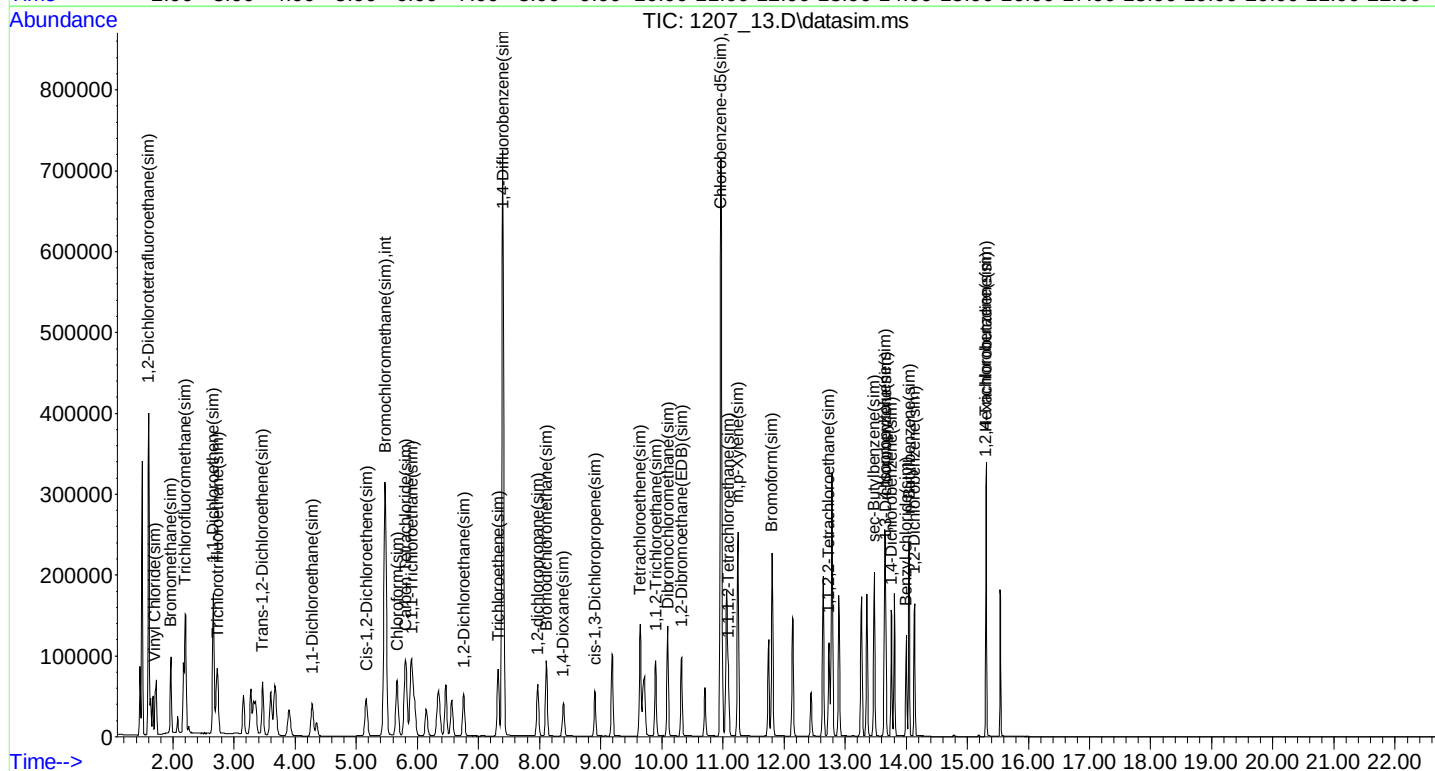
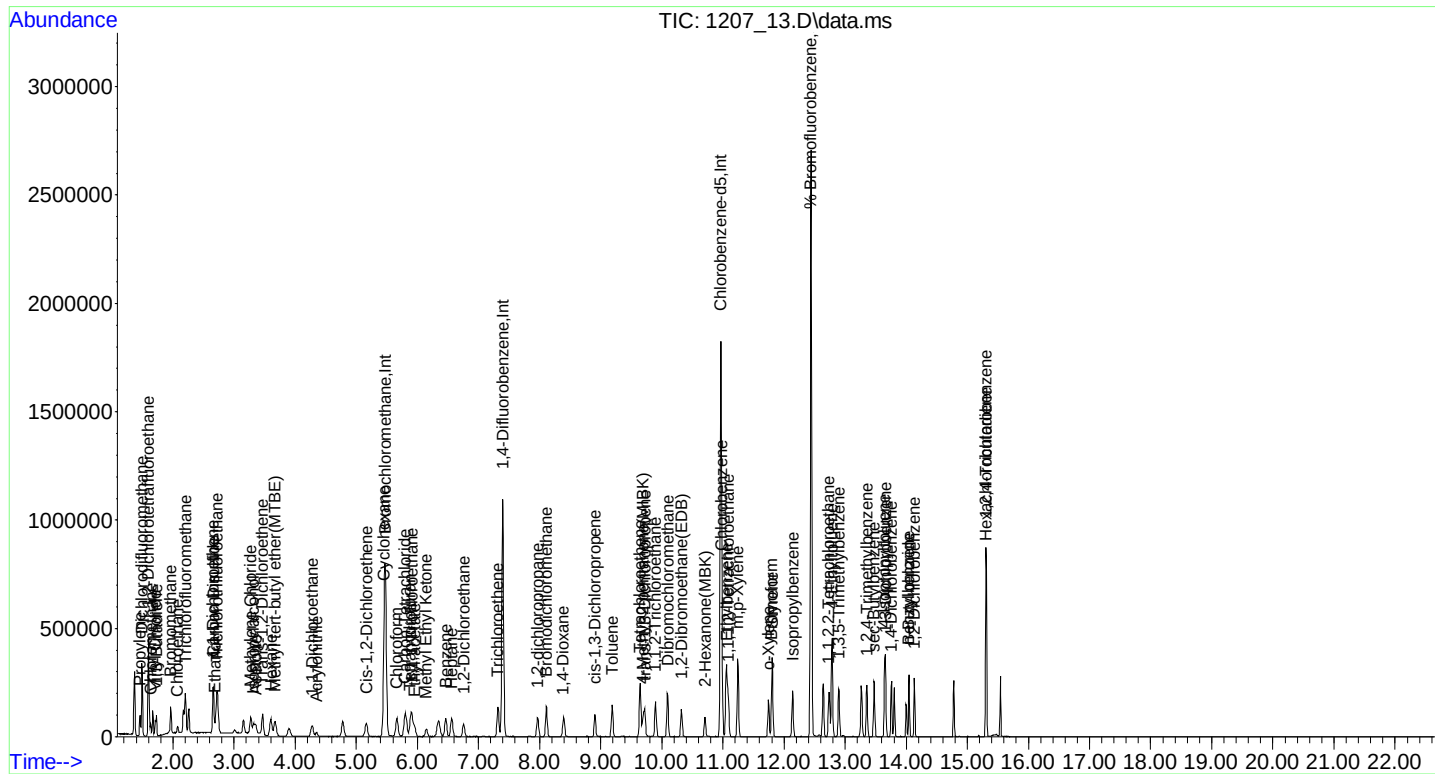
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_13.D  
 Acq On : 7 Dec 2019 10:22 pm  
 Operator : Keith  
 Client ID : ICAL 1  
 Lab ID : 1ppb  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 09 09:46:08 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration





## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_14.D  
 Acq On : 7 Dec 2019 10:56 pm  
 Operator : Keith  
 Client ID : ICAL 0.2  
 Lab ID : 0.2ppb  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 09 09:40:01 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:39:53 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.475  | 130  | 392207   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.395  | 114  | 989991   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.967 | 82   | 528393   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.470  | 130  | 405593   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.398  | 114  | 1101675  | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.963 | 82   | 576739   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

62) % Bromofluorobenzene 12.438 95 764972 8.887 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 88.90%

## Target Compounds

|                               |        |     |       |       |       | Qvalue |
|-------------------------------|--------|-----|-------|-------|-------|--------|
| 2) Propylene                  | 1.464  | 41  | 7408  | 0.197 | ppbv  | 96     |
| 3) Dichlorodifluoromethane    | 1.499  | 101 | 3419  | 0.197 | ppbv  | 88     |
| 4) Chloromethane              | 1.636  | 50  | 8818  | 0.265 | ppbv  | 96     |
| 5) 1,2-Dichlorotetrafluor...  | 1.601  | 135 | 23684 | 0.237 | ppbv  | 95     |
| 6) Vinyl Chloride             | 1.711  | 62  | 9048  | 0.236 | ppbv  | 99     |
| 7) 1,3-Butadiene              | 1.732  | 54  | 4872  | 0.215 | ppbv# | 76     |
| 8) Bromomethane               | 1.965  | 94  | 13566 | 0.222 | ppbv# | 90     |
| 9) Chloroethane               | 2.081  | 64  | 5419  | 0.255 | ppbv  | 96     |
| 10) Ethanol                   | 2.697  | 45  | 4747  | 0.454 | ppbv# | 88     |
| 12) Acetone                   | 3.361  | 43  | 24160 | 0.390 | ppbv  | 96     |
| 13) Trichlorofluoromethane    | 2.204  | 101 | 35461 | 0.242 | ppbv  | 99     |
| 14) Isopropylalcohol          | 3.326  | 45  | 14631 | 0.245 | ppbv# | 1      |
| 15) Acrylonitrile             | 4.346  | 53  | 3801  | 0.210 | ppbv  | 94     |
| 16) 1,1-Dichloroethene        | 2.663  | 61  | 16015 | 0.225 | ppbv  | 99     |
| 17) Methylene Chloride        | 3.272  | 49  | 11705 | 0.262 | ppbv  | 95     |
| 20) Carbon Disulfide          | 2.663  | 76  | 31360 | 0.254 | ppbv# | 91     |
| 21) Trichlorotrifluoroethane  | 2.718  | 101 | 25342 | 0.249 | ppbv  | 98     |
| 22) Trans-1,2-Dichloroethene  | 3.463  | 61  | 12126 | 0.221 | ppbv  | 96     |
| 23) 1,1-Dichloroethane        | 4.278  | 63  | 14239 | 0.204 | ppbv  | 98     |
| 24) Methyl tert-butyl ethe... | 3.682  | 73  | 18934 | 0.212 | ppbv# | 84     |
| 25) Methyl Ethyl Ketone       | 6.152  | 43  | 12486 | 0.194 | ppbv  | 97     |
| 26) Cis-1,2-Dichloroethene    | 5.165  | 61  | 10260 | 0.189 | ppbv  | 99     |
| 27) Hexane                    | 3.600  | 57  | 9392  | 0.219 | ppbv  | 94     |
| 28) Chloroform                | 5.662  | 83  | 18688 | 0.196 | ppbv  | 98     |
| 29) Ethyl acetate             | 5.965  | 43  | 12182 | 0.196 | ppbv  | 98     |
| 30) Tetrahydrofuran           | 5.893  | 42  | 4374  | 0.189 | ppbv  | 96     |
| 31) 1,2-Dichloroethane        | 6.758  | 62  | 14066 | 0.202 | ppbv  | 97     |
| 32) 1,1,1-Trichloroethane     | 5.907  | 97  | 20828 | 0.212 | ppbv  | 98     |
| 33) Benzene                   | 6.463  | 78  | 17606 | 0.195 | ppbv  | 94     |
| 34) Carbon Tetrachloride      | 5.799  | 117 | 23120 | 0.202 | ppbv  | 97     |
| 35) Cyclohexane               | 5.467  | 56  | 7073  | 0.174 | ppbv  | 95     |
| 37) 1,2-dichloropropane       | 7.970  | 63  | 6046  | 0.181 | ppbv  | 94     |
| 38) Bromodichloromethane      | 8.114  | 83  | 18431 | 0.186 | ppbv  | 96     |
| 39) Trichloroethene           | 7.319  | 130 | 10107 | 0.198 | ppbv  | 95     |
| 41) 1,4-Dioxane               | 8.384  | 88  | 2835  | 0.142 | ppbv# | 96     |
| 43) Heptane                   | 6.580  | 43  | 7149  | 0.179 | ppbv  | 92     |
| 44) cis-1,3-Dichloropropene   | 8.911  | 75  | 9146  | 0.151 | ppbv  | 98     |
| 45) 4-Methyl-2-pentanone(M... | 9.698  | 43  | 9791  | 0.163 | ppbv  | 98     |
| 46) trans-1,3-Dichloropropene | 9.720  | 75  | 9573  | 0.170 | ppbv  | 97     |
| 47) 1,1,2-Trichloroethane     | 9.900  | 97  | 9446  | 0.201 | ppbv  | 98     |
| 48) Toluene                   | 9.186  | 91  | 15970 | 0.156 | ppbv  | 96     |
| 49) Dibromochloromethane      | 10.088 | 129 | 21437 | 0.195 | ppbv  | 98     |
| 50) 2-Hexanone(MBK)           | 10.706 | 43  | 8871  | 0.133 | ppbv# | 92     |
| 51) 1,2-Dibromoethane(EDB)    | 10.319 | 107 | 15069 | 0.182 | ppbv  | 100    |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_14.D  
 Acq On : 7 Dec 2019 10:56 pm  
 Operator : Keith  
 Client ID : ICAL 0.2  
 Lab ID : 0.2ppb  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 09 09:40:01 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:39:53 2019  
 Response via : Initial Calibration

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene         | 9.648  | 166  | 13423    | 0.184 | ppbv  | 97       |
| 54)  | 1,1,1,2-Tetrachloroethane | 11.084 | 131  | 10834    | 0.212 | ppbv  | 99       |
| 55)  | Chlorobenzene             | 10.988 | 112  | 17541    | 0.207 | ppbv# | 59       |
| 56)  | Ethylbenzene              | 11.063 | 91   | 22692    | 0.184 | ppbv  | 97       |
| 57)  | m,p-Xylene                | 11.248 | 91   | 29108    | 0.332 | ppbv  | 99       |
| 58)  | Bromoform                 | 11.804 | 173  | 19281    | 0.213 | ppbv  | 98       |
| 59)  | Styrene                   | 11.811 | 104  | 8230     | 0.124 | ppbv  | 95       |
| 60)  | 1,1,2,2-Tetrachloroethane | 12.737 | 83   | 19916    | 0.216 | ppbv  | 94       |
| 61)  | o-Xylene                  | 11.742 | 91   | 12920    | 0.127 | ppbv  | 96       |
| 64)  | Isopropylbenzene          | 12.140 | 105  | 17405    | 0.141 | ppbv  | 98       |
| 66)  | 4-Ethyltoluene            | 12.789 | 105  | 21265    | 0.165 | ppbv  | 98       |
| 67)  | 1,3,5-Trimethylbenzene    | 12.899 | 105  | 17322    | 0.159 | ppbv  | 98       |
| 68)  | 1,2,4-Trimethylbenzene    | 13.360 | 105  | 15360    | 0.141 | ppbv# | 95       |
| 70)  | Benzyl chloride           | 14.047 | 91   | 17226    | 0.138 | ppbv  | 98       |
| 71)  | 1,3-Dichlorobenzene       | 13.665 | 146  | 19157    | 0.216 | ppbv  | 99       |
| 72)  | 1,4-Dichlorobenzene       | 13.755 | 146  | 16156    | 0.187 | ppbv  | 95       |
| 73)  | sec-Butylbenzene          | 13.476 | 105  | 23773    | 0.158 | ppbv  | 97       |
| 74)  | 4-Isopropyltoluene        | 13.645 | 119  | 17014    | 0.139 | ppbv  | 96       |
| 75)  | 1,2-Dichlorobenzene       | 14.138 | 146  | 17797    | 0.216 | ppbv  | 99       |
| 76)  | n-Butylbenzene            | 14.047 | 91   | 17226    | 0.163 | ppbv  | 95       |
| 77)  | 1,2,4-Trichlorobenzene    | 15.304 | 180  | 9580     | 0.124 | ppbv  | 95       |
| 79)  | Hexachlorobutadiene       | 15.309 | 225  | 19805    | 0.232 | ppbv  | 98       |
| 81)  | 1,2-Dichlorotetrafluor... | 1.601  | 135  | 23684    | 0.221 | ppbv  | 95       |
| 82)  | Vinyl Chloride(sim)       | 1.714  | 62   | 9789     | 0.232 | ppbv  | 100      |
| 83)  | Bromomethane(sim)         | 1.965  | 94   | 15056    | 0.222 | ppbv# | 95       |
| 84)  | Trichlorofluoromethane... | 2.207  | 101  | 36007    | 0.203 | ppbv  | 100      |
| 85)  | 1,1,1-Trichloroethane...  | 5.907  | 97   | 20754    | 0.210 | ppbv# | 97       |
| 86)  | Carbon Tetrachloride(sim) | 5.809  | 117  | 23672    | 0.202 | ppbv  | 100      |
| 87)  | 1,1-Dichloroethene(sim)   | 2.663  | 61   | 16015    | 0.218 | ppbv  | 97       |
| 89)  | Trans-1,2-Dichloroethe... | 3.463  | 61   | 12126    | 0.216 | ppbv  | 96       |
| 90)  | 1,1-Dichloroethane(sim)   | 4.276  | 63   | 15805    | 0.212 | ppbv  | 99       |
| 91)  | Cis-1,2-Dichloroethene... | 5.165  | 61   | 10260    | 0.212 | ppbv  | 98       |
| 92)  | Chloroform(sim)           | 5.665  | 83   | 20023    | 0.204 | ppbv  | 99       |
| 93)  | 1,2-Dichloroethane(sim)   | 6.758  | 62   | 14066    | 0.209 | ppbv# | 96       |
| 95)  | 1,2-dichloropropane(sim)  | 7.970  | 63   | 5943     | 0.203 | ppbv  | 92       |
| 96)  | Bromodichloromethane(sim) | 8.110  | 83   | 19779    | 0.199 | ppbv  | 100      |
| 97)  | Trichloroethene(sim)      | 7.319  | 130  | 9996     | 0.209 | ppbv  | 95       |
| 99)  | cis-1,3-Dichloropropen... | 8.911  | 75   | 9146     | 0.159 | ppbv  | 98       |
| 100) | 1,1,2-Trichloroethane...  | 9.896  | 97   | 10355    | 0.212 | ppbv  | 100      |
| 101) | Dibromochloromethane(sim) | 10.088 | 129  | 21437    | 0.208 | ppbv  | 99       |
| 102) | 1,2-Dibromoethane(EDB)... | 10.322 | 107  | 16644    | 0.211 | ppbv  | 100      |
| 103) | Tetrachloroethene(sim)    | 9.648  | 166  | 13423    | 0.208 | ppbv  | 97       |
| 105) | Bromoform(sim)            | 11.804 | 173  | 19039    | 0.224 | ppbv  | 97       |
| 106) | 1,1,1,2-Tetrachloroeth... | 11.087 | 131  | 11618    | 0.214 | ppbv  | 99       |
| 108) | 1,1,2,2-Tetrachloroeth... | 12.740 | 83   | 20708    | 0.215 | ppbv  | 100      |
| 112) | 1,3-Dichlorobenzene(sim)  | 13.661 | 146  | 21347    | 0.226 | ppbv  | 99       |
| 119) | Hexachlorobutadiene(sim)  | 15.309 | 225  | 19741    | 0.231 | ppbv  | 95       |

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

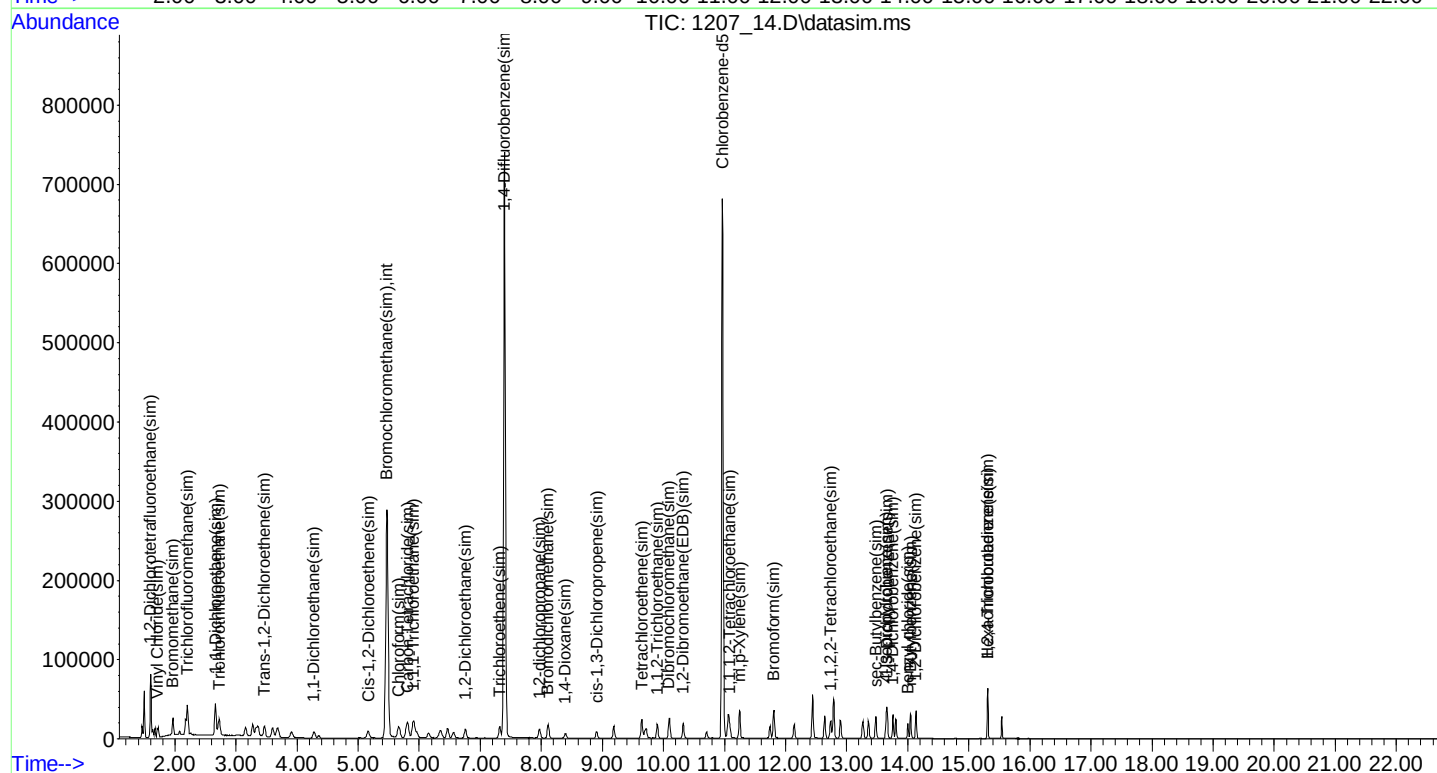
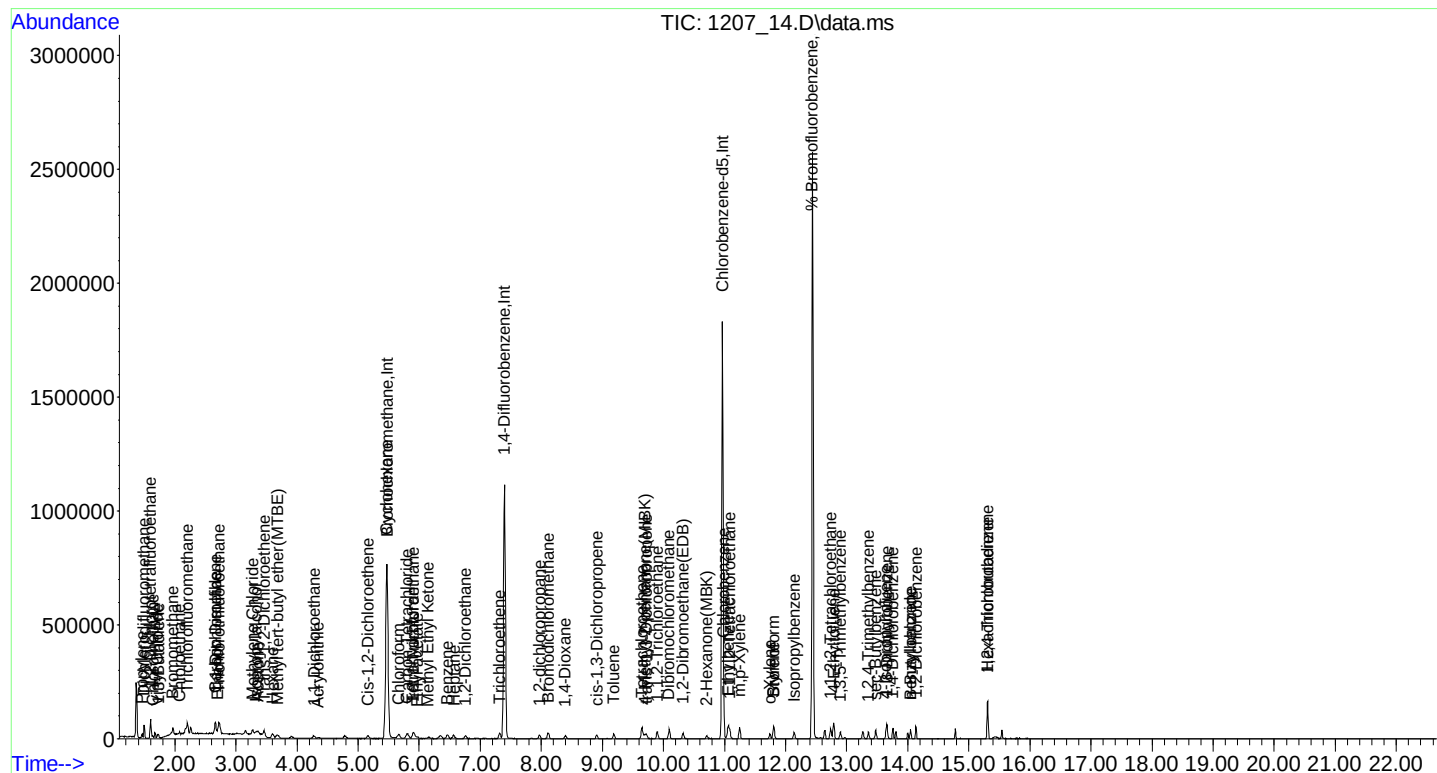
Quantitation Report (RF) (QT Reviewed)

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Data Path  : H:\AIR2019\CHEM24\12DEC\07A\
Data File  : 1207_14.D
Acq On     : 7 Dec 2019 10:56 pm
Operator   : Keith
Client ID  : ICAL 0.2
Lab ID     : 0.2ppb
ALS Vial   : 17 Sample Multiplier: 1

```

Quant Time: Dec 09 09:40:01 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
Quant Title : VOA Standards for 5 point calibration  
Quant Update : Mon Dec 09 09:39:53 2019  
Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_15.D  
 Acq On : 7 Dec 2019 11:28 pm  
 Operator : Keith  
 Client ID : ICAL 10  
 Lab ID : 10ppb  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 09 09:40:29 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:40:21 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.489  | 130  | 246610   | 10.000 | ng    | 0.01     |
| 36) 1,4-Difluorobenzene      | 7.402  | 114  | 656013   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.967 | 82   | 399206   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.485  | 130  | 256686   | 10.000 | ng    | # 0.01   |
| 94) 1,4-Difluorobenzene(sim) | 7.405  | 114  | 733812   | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.970 | 82   | 427901   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

62) % Bromofluorobenzene 12.445 95 632393 10.002 ppbv 0.00  
 Spiked Amount 10.000 Range 70 - 130 Recovery = 100.00%

## Target Compounds

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|--------|------|----------|--------|-------|--------|
| 2) Propylene                  | 1.471  | 41   | 260345   | 11.026 | ppbv  | 97     |
| 3) Dichlorodifluoromethane    | 1.506  | 101  | 114697   | 10.510 | ppbv  | 91     |
| 4) Chloromethane              | 1.650  | 50   | 172950   | 8.252  | ppbv  | 97     |
| 5) 1,2-Dichlorotetrafluor...  | 1.615  | 135  | 541881   | 8.619  | ppbv  | 98     |
| 6) Vinyl Chloride             | 1.725  | 62   | 212012   | 8.796  | ppbv  | 99     |
| 7) 1,3-Butadiene              | 1.745  | 54   | 131791   | 9.245  | ppbv  | 85     |
| 8) Bromomethane               | 1.978  | 94   | 343607   | 8.923  | ppbv# | 92     |
| 9) Chloroethane               | 2.088  | 64   | 112012   | 8.374  | ppbv  | 91     |
| 10) Ethanol                   | 2.697  | 45   | 64899    | 9.872  | ppbv  | 98     |
| 12) Acetone                   | 3.361  | 43   | 384373   | 9.873  | ppbv  | 94     |
| 13) Trichlorofluoromethane    | 2.218  | 101  | 787426   | 8.561  | ppbv  | 99     |
| 14) Isopropylalcohol          | 3.327  | 45   | 349287   | 9.316  | ppbv  | 97     |
| 15) Acrylonitrile             | 4.366  | 53   | 117670   | 10.336 | ppbv  | 93     |
| 16) 1,1-Dichloroethene        | 2.670  | 61   | 424020   | 9.478  | ppbv  | 98     |
| 17) Methylene Chloride        | 3.286  | 49   | 264681   | 9.430  | ppbv  | 96     |
| 20) Carbon Disulfide          | 2.677  | 76   | 755787   | 9.734  | ppbv# | 93     |
| 21) Trichlorotrifluoroethane  | 2.738  | 101  | 574586   | 8.982  | ppbv  | 99     |
| 22) Trans-1,2-Dichloroethene  | 3.484  | 61   | 347691   | 10.095 | ppbv  | 95     |
| 23) 1,1-Dichloroethane        | 4.293  | 63   | 436697   | 9.968  | ppbv  | 97     |
| 24) Methyl tert-butyl ethe... | 3.676  | 73   | 600993   | 10.703 | ppbv# | 64     |
| 25) Methyl Ethyl Ketone       | 6.152  | 43   | 433141   | 10.681 | ppbv# | 98     |
| 26) Cis-1,2-Dichloroethene    | 5.179  | 61   | 381069   | 11.146 | ppbv  | 97     |
| 27) Hexane                    | 3.614  | 57   | 296451   | 10.970 | ppbv# | 80     |
| 28) Chloroform                | 5.684  | 83   | 623856   | 10.394 | ppbv  | 98     |
| 29) Ethyl acetate             | 5.965  | 43   | 393723   | 10.095 | ppbv  | 99     |
| 30) Tetrahydrofuran           | 5.886  | 42   | 152955   | 10.489 | ppbv  | 91     |
| 31) 1,2-Dichloroethane        | 6.765  | 62   | 456742   | 10.448 | ppbv  | 97     |
| 32) 1,1,1-Trichloroethane     | 5.922  | 97   | 594032   | 9.617  | ppbv  | 98     |
| 33) Benzene                   | 6.477  | 78   | 581190   | 10.248 | ppbv  | 94     |
| 34) Carbon Tetrachloride      | 5.814  | 117  | 716198   | 9.964  | ppbv  | 99     |
| 35) Cyclohexane               | 5.468  | 56   | 284304   | 11.097 | ppbv  | 95     |
| 37) 1,2-dichloropropane       | 7.977  | 63   | 255696   | 11.544 | ppbv  | 95     |
| 38) Bromodichloromethane      | 8.114  | 83   | 703427   | 10.724 | ppbv  | 98     |
| 39) Trichloroethene           | 7.326  | 130  | 376895   | 11.159 | ppbv  | 96     |
| 41) 1,4-Dioxane               | 8.377  | 88   | 160898   | 12.153 | ppbv# | 96     |
| 43) Heptane                   | 6.566  | 43   | 303368   | 11.463 | ppbv  | 91     |
| 44) cis-1,3-Dichloropropene   | 8.912  | 75   | 519205   | 12.904 | ppbv  | 99     |
| 45) 4-Methyl-2-pentanone(M... | 9.699  | 43   | 462991   | 11.631 | ppbv  | 98     |
| 46) trans-1,3-Dichloropropene | 9.720  | 75   | 411689   | 11.019 | ppbv  | 97     |
| 47) 1,1,2-Trichloroethane     | 9.901  | 97   | 319700   | 10.263 | ppbv  | 99     |
| 48) Toluene                   | 9.186  | 91   | 831219   | 12.251 | ppbv  | 97     |
| 49) Dibromochloromethane      | 10.096 | 129  | 750511   | 10.311 | ppbv  | 98     |
| 50) 2-Hexanone(MBK)           | 10.706 | 43   | 562021   | 12.730 | ppbv# | 92     |
| 51) 1,2-Dibromoethane(EDB)    | 10.319 | 107  | 599476   | 10.911 | ppbv  | 99     |

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\  
 Data File : 1207\_15.D  
 Acq On : 7 Dec 2019 11:28 pm  
 Operator : Keith  
 Client ID : ICAL 10  
 Lab ID : 10ppb  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 09 09:40:29 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:40:21 2019  
 Response via : Initial Calibration

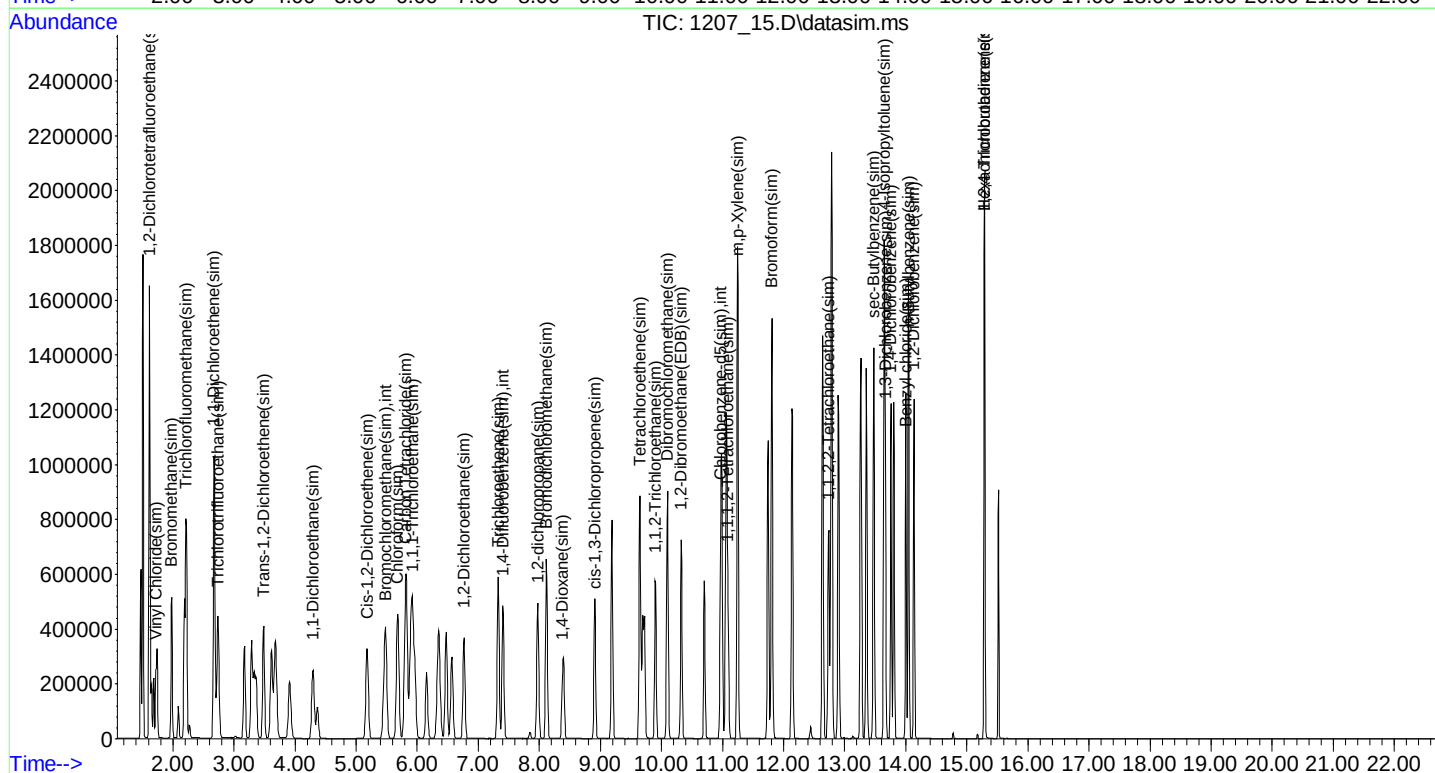
|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|-------|----------|
| 52)  | Tetrachloroethene         | 9.648  | 166  | 524131   | 10.861 | ppbv  | 98       |
| 54)  | 1,1,1,2-Tetrachloroethane | 11.091 | 131  | 368860   | 9.576  | ppbv  | 98       |
| 55)  | Chlorobenzene             | 10.988 | 112  | 662020   | 10.318 | ppbv# | 58       |
| 56)  | Ethylbenzene              | 11.063 | 91   | 987627   | 10.625 | ppbv  | 96       |
| 57)  | m,p-Xylene                | 11.248 | 91   | 1546363  | 23.379 | ppbv  | 98       |
| 58)  | Bromoform                 | 11.804 | 173  | 642207   | 9.392  | ppbv  | 99       |
| 59)  | Styrene                   | 11.811 | 104  | 568351   | 11.328 | ppbv  | 95       |
| 60)  | 1,1,2,2-Tetrachloroethane | 12.737 | 83   | 694966   | 9.972  | ppbv# | 94       |
| 61)  | o-Xylene                  | 11.743 | 91   | 965328   | 12.587 | ppbv  | 96       |
| 64)  | Isopropylbenzene          | 12.140 | 105  | 1177828  | 12.610 | ppbv  | 99       |
| 66)  | 4-Ethyltoluene            | 12.782 | 105  | 1085736  | 11.184 | ppbv  | 98       |
| 67)  | 1,3,5-Trimethylbenzene    | 12.899 | 105  | 953862   | 11.582 | ppbv  | 98       |
| 68)  | 1,2,4-Trimethylbenzene    | 13.353 | 105  | 971388   | 11.814 | ppbv# | 96       |
| 70)  | Benzyl chloride           | 14.048 | 91   | 916001   | 10.440 | ppbv  | 99       |
| 71)  | 1,3-Dichlorobenzene       | 13.665 | 146  | 667998   | 9.947  | ppbv  | 98       |
| 72)  | 1,4-Dichlorobenzene       | 13.756 | 146  | 723374   | 11.087 | ppbv  | 96       |
| 73)  | sec-Butylbenzene          | 13.477 | 105  | 1311991  | 11.518 | ppbv  | 98       |
| 74)  | 4-Isopropyltoluene        | 13.645 | 119  | 1135198  | 12.305 | ppbv  | 96       |
| 75)  | 1,2-Dichlorobenzene       | 14.132 | 146  | 657521   | 10.548 | ppbv  | 99       |
| 76)  | n-Butylbenzene            | 14.048 | 91   | 916001   | 11.506 | ppbv  | 93       |
| 77)  | 1,2,4-Trichlorobenzene    | 15.285 | 180  | 454282   | 8.699  | ppbv  | 95       |
| 79)  | Hexachlorobutadiene       | 15.290 | 225  | 544398   | 9.456  | ppbv  | 99       |
| 81)  | 1,2-Dichlorotetrafluor... | 1.615  | 135  | 540636   | 7.974  | ppbv  | 99       |
| 82)  | Vinyl Chloride(sim)       | 1.721  | 62   | 228495   | 8.569  | ppbv  | 99       |
| 83)  | Bromomethane(sim)         | 1.978  | 94   | 343607   | 8.010  | ppbv# | 94       |
| 84)  | Trichlorofluoromethane... | 2.214  | 101  | 791765   | 7.045  | ppbv  | 98       |
| 85)  | 1,1,1-Trichloroethane...  | 5.922  | 97   | 594119   | 9.512  | ppbv# | 98       |
| 86)  | Carbon Tetrachloride(sim) | 5.817  | 117  | 735480   | 9.919  | ppbv  | 99       |
| 87)  | 1,1-Dichloroethene(sim)   | 2.670  | 61   | 424020   | 9.104  | ppbv  | 96       |
| 89)  | Trans-1,2-Dichloroethe... | 3.484  | 61   | 347691   | 9.801  | ppbv  | 95       |
| 90)  | 1,1-Dichloroethane(sim)   | 4.296  | 63   | 473035   | 10.020 | ppbv  | 100      |
| 91)  | Cis-1,2-Dichloroethene... | 5.179  | 61   | 381069   | 12.419 | ppbv  | 98       |
| 92)  | Chloroform(sim)           | 5.680  | 83   | 661444   | 10.663 | ppbv  | 99       |
| 93)  | 1,2-Dichloroethane(sim)   | 6.765  | 62   | 456742   | 10.739 | ppbv# | 97       |
| 95)  | 1,2-dichloropropane(sim)  | 7.977  | 63   | 255696   | 13.118 | ppbv  | 95       |
| 96)  | Bromodichloromethane(sim) | 8.117  | 83   | 732650   | 11.045 | ppbv  | 99       |
| 97)  | Trichloroethene(sim)      | 7.326  | 130  | 376895   | 11.841 | ppbv  | 94       |
| 99)  | cis-1,3-Dichloropropen... | 8.912  | 75   | 519205   | 15.078 | ppbv  | 99       |
| 100) | 1,1,2-Trichloroethane(... | 9.904  | 97   | 347523   | 10.688 | ppbv  | 100      |
| 101) | Dibromochloromethane(sim) | 10.096 | 129  | 750569   | 10.943 | ppbv  | 98       |
| 102) | 1,2-Dibromoethane(EDB)... | 10.322 | 107  | 628628   | 11.943 | ppbv  | 98       |
| 103) | Tetrachloroethene(sim)    | 9.648  | 166  | 524131   | 12.171 | ppbv  | 98       |
| 105) | Bromoform(sim)            | 11.804 | 173  | 642136   | 10.176 | ppbv  | 98       |
| 106) | 1,1,1,2-Tetrachloroeth... | 11.087 | 131  | 393523   | 9.769  | ppbv  | 98       |
| 108) | 1,1,2,2-Tetrachloroeth... | 12.740 | 83   | 731663   | 10.258 | ppbv  | 98       |
| 112) | 1,3-Dichlorobenzene(sim)  | 13.668 | 146  | 725100   | 10.326 | ppbv  | 98       |
| 113) | 1,4-Dichlorobenzene(sim)  | 13.756 | 146  | 723873   | 6.258  | ppbv  | 96       |
| 118) | 1,2,4-Trichlorobenzene... | 15.288 | 180  | 466966   | 4.579  | ppbv  | 95       |
| 119) | Hexachlorobutadiene(sim)  | 15.290 | 225  | 543553   | 8.585  | ppbv  | 97       |

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

```

Data Path   : H:\AIR2019\CHEM24\12DEC\07A\
Data File   : 1207_15.D
Acq On      : 7 Dec 2019 11:28 pm
Operator    : Keith
Client ID   : ICAL 10
Lab ID      : 10ppb
ALS Vial    : 18 Sample Multiplier: 1

```



7A  
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.:  SAS No.:  SDG No.: GCE81145

Instrument: CHEM24 Calibration Date: 12/06/19 Time: 15:09

Lab File Id: 1206\_01.D Init. Calib. Date(s): 12/03/19 12/04/19

Heated Purge (Y/N): Y Init. Calib. Times: 17:18 00:43

GC Column: RTX-VMS Method File: 24AIR\_1203.M

| COMPOUND                      | RRF   | RRF1  | RRF MIN | %D    | % D LIMITS |
|-------------------------------|-------|-------|---------|-------|------------|
| Propylene                     | 0.927 | 0.757 |         | 18.3  | 30         |
| Dichlorodifluoromethane       | 0.422 | 0.491 |         | -16.4 | 30         |
| Chloromethane                 | 0.796 | 0.924 |         | -16.1 | 30         |
| 1,2-Dichlorotetrafluoroethane | 2.339 | 2.677 |         | -14.5 | 30         |
| Vinyl Chloride                | 0.943 | 1.005 |         | -6.6  | 30         |
| 1,3-Butadiene                 | 0.561 | 0.586 |         | -4.5  | 30         |
| Bromomethane                  | 1.388 | 1.473 |         | -6.1  | 30         |
| Chloroethane                  | 0.480 | 0.492 |         | -2.5  | 30         |
| Ethanol                       | 0.248 | 0.291 |         | -17.3 | 30         |
| Acetone                       | 1.614 | 1.906 |         | -18.1 | 30         |
| Trichlorofluoromethane        | 3.236 | 3.909 |         | -20.8 | 30         |
| Isopropylalcohol              | 1.384 | 1.396 |         | -0.9  | 30         |
| Acrylonitrile                 | 0.467 | 0.404 |         | 13.5  | 30         |
| 1,1-Dichloroethene            | 1.637 | 1.790 |         | -9.3  | 30         |
| Methylene Chloride            | 1.036 | 1.080 |         | -4.2  | 30         |
| Carbon Disulfide              | 2.814 | 3.250 |         | -15.5 | 30         |
| Trichlorotrifluoroethane      | 2.227 | 2.667 |         | -19.8 | 30         |
| Trans-1,2-Dichloroethene      | 1.319 | 1.280 |         | 3.0   | 30         |
| 1,1-Dichloroethane            | 1.731 | 1.644 |         | 5.0   | 30         |
| Methyl tert-butyl ether(MTBE) | 2.248 | 2.123 |         | 5.6   | 30         |
| Methyl Ethyl Ketone           | 1.277 | 1.274 |         | 0.2   | 30         |
| Cis-1,2-Dichloroethene        | 1.375 | 1.248 |         | 9.2   | 30         |
| Hexane                        | 1.263 | 0.928 |         | 26.5  | 30         |
| Chloroform                    | 2.279 | 2.274 |         | 0.2   | 30         |
| Ethyl acetate                 | 1.535 | 1.490 |         | 2.9   | 30         |
| Tetrahydrofuran               | 0.606 | 0.494 |         | 18.5  | 30         |
| 1,2-Dichloroethane            | 1.664 | 1.652 |         | 0.7   | 30         |
| 1,1,1-Trichloroethane         | 2.327 | 2.447 |         | -5.2  | 30         |
| Benzene                       | 2.288 | 2.177 |         | 4.9   | 30         |
| Carbon Tetrachloride          | 2.665 | 2.758 |         | -3.5  | 30         |
| Cyclohexane                   | 1.072 | 0.882 |         | 17.7  | 30         |
| 1,2-dichloropropane           | 0.334 | 0.300 |         | 10.2  | 30         |
| Bromodichloromethane          | 0.917 | 0.930 |         | -1.4  | 30         |
| Trichloroethene               | 0.511 | 0.445 |         | 12.9  | 30         |
| 1,4-Dioxane                   | 0.203 | 0.155 |         | 23.6  | 30         |

(\*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B  
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.:  SAS No.:  SDG No.: GCE81145

Instrument: CHEM24 Calibration Date: 12/06/19 Time: 15:09

Lab File Id: 1206\_01.D Init. Calib. Date(s): 12/03/19 12/04/19

Heated Purge (Y/N): Y Init. Calib. Times: 17:18 00:43

GC Column: RTX-VMS Method File: 24AIR\_1203.M

| COMPOUND                           | RRF   | RRF1  | RRF MIN | %D     | % D LIMITS |
|------------------------------------|-------|-------|---------|--------|------------|
| Heptane                            | 0.404 | 0.378 |         | 6.4    | 30         |
| cis-1,3-Dichloropropene            | 0.625 | 0.516 |         | 17.4   | 30         |
| 4-Methyl-2-pentanone(MIBK)         | 0.602 | 0.604 |         | -0.3   | 30         |
| trans-1,3-Dichloropropene          | 0.548 | 0.569 |         | -3.8   | 30         |
| 1,1,2-Trichloroethane              | 0.451 | 0.437 |         | 3.1    | 30         |
| Toluene                            | 1.051 | 0.932 |         | 11.3   | 30         |
| Dibromochloromethane               | 1.024 | 1.020 |         | 0.4    | 30         |
| 2-Hexanone(MBK)                    | 0.664 | 0.501 |         | 24.5   | 30         |
| 1,2-Dibromoethane(EDB)             | 0.795 | 0.735 |         | 7.5    | 30         |
| Tetrachloroethene                  | 0.719 | 0.676 |         | 6.0    | 30         |
| 1,1,1,2-Tetrachloroethane          | 0.902 | 0.926 |         | -2.7   | 30         |
| Chlorobenzene                      | 1.500 | 1.454 |         | 3.1    | 30         |
| Ethylbenzene                       | 2.252 | 2.305 |         | -2.4   | 30         |
| m,p-Xylene                         | 1.658 | 1.373 |         | 17.2   | 30         |
| Bromoform                          | 1.591 | 1.681 |         | -5.7   | 30         |
| Styrene                            | 1.257 | 1.149 |         | 8.6    | 30         |
| 1,1,2,2-Tetrachloroethane          | 1.619 | 1.620 |         | -0.1   | 30         |
| o-Xylene                           | 1.952 | 1.540 |         | 21.1   | 30         |
| Isopropylbenzene                   | 2.402 | 2.113 |         | 12.0   | 30         |
| 4-Ethyltoluene                     | 2.400 | 2.464 |         | -2.7   | 30         |
| 1,3,5-Trimethylbenzene             | 2.047 | 1.966 |         | 4.0    | 30         |
| 1,2,4-Trimethylbenzene             | 1.977 | 2.034 |         | -2.9   | 30         |
| Benzyl chloride qfi                | 1.000 | 0.68  |         | 32.0 # | 20         |
| 1,3-Dichlorobenzene                | 1.486 | 1.599 |         | -7.6   | 30         |
| 1,4-Dichlorobenzene                | 1.464 | 1.401 |         | 4.3    | 30         |
| sec-Butylbenzene                   | 2.715 | 2.828 |         | -4.2   | 30         |
| 4-Isopropyltoluene                 | 2.202 | 2.149 |         | 2.4    | 30         |
| 1,2-Dichlorobenzene                | 1.348 | 1.426 |         | -5.8   | 30         |
| n-Butylbenzene                     | 1.780 | 1.949 |         | -9.5   | 30         |
| 1,2,4-Trichlorobenzene qfi         | 1.000 | 0.61  |         | 39.0 # | 20         |
| Hexachlorobutadiene qfi            | 1.000 | 1.04  |         | -4.0   | 20         |
| 1,2-Dichlorotetrafluoroethane(sim) | 2.507 | 2.576 |         | -2.8   | 30         |
| Vinyl Chloride(sim)                | 1.048 | 1.032 |         | 1.5    | 30         |
| Bromomethane(sim)                  | 1.527 | 1.417 |         | 7.2    | 30         |
| Trichlorofluoromethane(sim)        | 3.897 | 3.906 |         | -0.2   | 30         |

(\*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.



7B  
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.:  SAS No.:  SDG No.: GCE81145

Instrument: CHEM24 Calibration Date: 12/06/19 Time: 15:09

Lab File Id: 1206\_01.D Init. Calib. Date(s): 12/03/19 12/04/19

Heated Purge (Y/N): Y Init. Calib. Times: 17:18 00:43

GC Column: RTX-VMS Method File: 24AIR\_1203.M

| COMPOUND                          | RRF   | RRF1  | RRF MIN | %D   | % D LIMITS |
|-----------------------------------|-------|-------|---------|------|------------|
| 1,1,1-Trichloroethane(sim)        | 2.381 | 2.353 |         | 1.2  | 30         |
| Carbon Tetrachloride(sim)         | 2.702 | 2.747 |         | -1.7 | 30         |
| 1,1-Dichloroethene(sim)           | 1.774 | 1.722 |         | 2.9  | 30         |
| Trichlorotrifluoroethane(sim) qfi | 1.000 | 1.06  |         | -6.0 | 20         |
| Trans-1,2-Dichloroethene(sim)     | 1.331 | 1.232 |         | 7.4  | 30         |
| 1,1-Dichloroethane(sim)           | 1.870 | 1.737 |         | 7.1  | 30         |
| Cis-1,2-Dichloroethene(sim)       | 1.239 | 1.198 |         | 3.3  | 30         |
| Chloroform(sim)                   | 2.342 | 2.319 |         | 1.0  | 30         |
| 1,2-Dichloroethane(sim)           | 1.594 | 1.589 |         | 0.3  | 30         |
| 1,2-dichloropropane(sim)          | 0.286 | 0.271 |         | 5.2  | 30         |
| Bromodichloromethane(sim)         | 0.871 | 0.904 |         | -3.8 | 30         |
| Trichloroethene(sim)              | 0.438 | 0.402 |         | 8.2  | 30         |
| 1,4-Dioxane(sim) qfi              | 1.000 | 0.89  |         | 11.0 | 20         |
| cis-1,3-Dichloropropene(sim)      | 0.469 | 0.465 |         | 0.9  | 30         |
| 1,1,2-Trichloroethane(sim)        | 0.442 | 0.443 |         | -0.2 | 30         |
| Dibromochloromethane(sim)         | 0.911 | 0.921 |         | -1.1 | 30         |
| 1,2-Dibromoethane(EDB)(sim)       | 0.755 | 0.723 |         | 4.2  | 30         |
| Tetrachloroethene(sim)            | 0.598 | 0.610 |         | -2.0 | 30         |
| Bromoform(sim)                    | 1.455 | 1.534 |         | -5.4 | 30         |
| 1,1,1,2-Tetrachloroethane(sim)    | 0.908 | 0.908 |         | 0.0  | 30         |
| m,p-Xylene(sim) qfi               | 2.000 | 1.95  |         | 2.5  | 20         |
| 1,1,2,2-Tetrachloroethane(sim)    | 1.670 | 1.622 |         | 2.9  | 30         |
| Benzyl chloride(sim) qfi          | 1.000 | 0.97  |         | 3.0  | 20         |
| 1,3-Dichlorobenzene(sim)          | 1.521 | 1.639 |         | -7.8 | 30         |
| 1,4-Dichlorobenzene(sim) q        | 1.000 | 0.99  |         | 1.0  | 20         |
| sec-Butylbenzene(sim) qfi         | 1.000 | 0.99  |         | 1.0  | 20         |
| 4-Isopropyltoluene(sim) qfi       | 1.000 | 0.96  |         | 4.0  | 20         |
| 1,2-Dichlorobenzene(sim) qfi      | 1.000 | 1.03  |         | -3.0 | 20         |
| n-Butylbenzene(sim) qfi           | 1.000 | 1.04  |         | -4.0 | 20         |
| 1,2,4-Trichlorobenzene(sim) q     | 1.000 | 0.84  |         | 16.0 | 20         |
| Hexachlorobutadiene(sim)          | 1.204 | 1.262 |         | -4.8 | 30         |
| % Bromofluorobenzene              | 1.508 | 1.466 |         | 2.8  | 30         |
|                                   |       |       |         |      |            |
|                                   |       |       |         |      |            |
|                                   |       |       |         |      |            |

(\*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

# Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_01.D  
 Acq On : 6 Dec 2019 3:09 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
 Lab ID : 1ppb cc - 1ppb cc  
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 06 15:54:15 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.  
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|        | Compound                     | AvgRF | CCRF  | %Dev  | Area% |
|--------|------------------------------|-------|-------|-------|-------|
| 1 Int  | Bromochloromethane           | 1.000 | 1.000 | 0.0   | 81    |
| 2      | Propylene                    | 0.927 | 0.757 | 18.3  |       |
| 3      | Dichlorodifluoromethane      | 0.422 | 0.491 | -16.4 |       |
| 4      | Chloromethane                | 0.796 | 0.924 | -16.1 |       |
| 5      | 1,2-Dichlorotetrafluoroetha  | 2.339 | 2.677 | -14.5 |       |
| 6      | Vinyl Chloride               | 0.943 | 1.005 | -6.6  |       |
| 7      | 1,3-Butadiene                | 0.561 | 0.586 | -4.5  |       |
| 8      | Bromomethane                 | 1.388 | 1.473 | -6.1  |       |
| 9      | Chloroethane                 | 0.480 | 0.492 | -2.5  |       |
| 10     | Ethanol                      | 0.248 | 0.291 | -17.3 |       |
| 12     | Acetone                      | 1.614 | 1.906 | -18.1 |       |
| 13     | Trichlorofluoromethane       | 3.236 | 3.909 | -20.8 |       |
| 14     | Isopropylalcohol             | 1.384 | 1.396 | -0.9  |       |
| 15     | Acrylonitrile                | 0.467 | 0.404 | 13.5  |       |
| 16     | 1,1-Dichloroethene           | 1.637 | 1.790 | -9.3  |       |
| 17     | Methylene Chloride           | 1.036 | 1.080 | -4.2  |       |
| 20     | Carbon Disulfide             | 2.814 | 3.250 | -15.5 |       |
| 21     | Trichlorotrifluoroethane     | 2.227 | 2.667 | -19.8 |       |
| 22     | Trans-1,2-Dichloroethene     | 1.319 | 1.280 | 3.0   |       |
| 23     | 1,1-Dichloroethane           | 1.731 | 1.644 | 5.0   |       |
| 24     | Methyl tert-butyl ether(MTB) | 2.248 | 2.123 | 5.6   |       |
| 25     | Methyl Ethyl Ketone          | 1.277 | 1.274 | 0.2   |       |
| 26     | Cis-1,2-Dichloroethene       | 1.375 | 1.248 | 9.2   |       |
| 27     | Hexane                       | 1.263 | 0.928 | 26.5  |       |
| 28     | Chloroform                   | 2.279 | 2.274 | 0.2   |       |
| 29     | Ethyl acetate                | 1.535 | 1.490 | 2.9   |       |
| 30     | Tetrahydrofuran              | 0.606 | 0.494 | 18.5  |       |
| 31     | 1,2-Dichloroethane           | 1.664 | 1.652 | 0.7   |       |
| 32     | 1,1,1-Trichloroethane        | 2.327 | 2.447 | -5.2  |       |
| 33     | Benzene                      | 2.288 | 2.177 | 4.9   |       |
| 34     | Carbon Tetrachloride         | 2.665 | 2.758 | -3.5  |       |
| 35     | Cyclohexane                  | 1.072 | 0.882 | 17.7  |       |
| 36 Int | 1,4-Difluorobenzene          | 1.000 | 1.000 | 0.0   | 78    |
| 37     | 1,2-dichloropropane          | 0.334 | 0.300 | 10.2  |       |
| 38     | Bromodichloromethane         | 0.917 | 0.930 | -1.4  |       |
| 39     | Trichloroethene              | 0.511 | 0.445 | 12.9  |       |
| 41     | 1,4-Dioxane                  | 0.203 | 0.155 | 23.6  |       |
| 43     | Heptane                      | 0.404 | 0.378 | 6.4   |       |
| 44     | cis-1,3-Dichloropropene      | 0.625 | 0.516 | 17.4  |       |
| 45     | 4-Methyl-2-pentanone(MIBK)   | 0.602 | 0.604 | -0.3  |       |
| 46     | trans-1,3-Dichloropropene    | 0.548 | 0.569 | -3.8  |       |
| 47     | 1,1,2-Trichloroethane        | 0.451 | 0.437 | 3.1   |       |
| 48     | Toluene                      | 1.051 | 0.932 | 11.3  |       |
| 49     | Dibromochloromethane         | 1.024 | 1.020 | 0.4   |       |
| 50     | 2-Hexanone(MBK)              | 0.664 | 0.501 | 24.5  |       |
| 51     | 1,2-Dibromoethane(EDB)       | 0.795 | 0.735 | 7.5   |       |
| 52     | Tetrachloroethene            | 0.719 | 0.676 | 6.0   |       |
| 53 Int | Chlorobenzene-d5             | 1.000 | 1.000 | 0.0   | 82    |
| 54     | 1,1,1,2-Tetrachloroethane    | 0.902 | 0.926 | -2.7  |       |
| 55     | Chlorobenzene                | 1.500 | 1.454 | 3.1   |       |
| 56     | Ethylbenzene                 | 2.252 | 2.305 | -2.4  |       |

## Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_01.D  
 Acq On : 6 Dec 2019 3:09 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
 Lab ID : 1ppb cc - 1ppb cc  
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 06 15:54:15 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

Note: Curves (l, lf, g, qf) display calculated concentration.  
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|     | Compound                       | AvgRF | CCRF  | %Dev Area% |    |
|-----|--------------------------------|-------|-------|------------|----|
| 57  | m, p-Xylene                    | 1.658 | 1.373 | 17.2       |    |
| 58  | Bromoform                      | 1.591 | 1.681 | -5.7       |    |
| 59  | Styrene                        | 1.257 | 1.149 | 8.6        |    |
| 60  | 1,1,2,2-Tetrachloroethane      | 1.619 | 1.620 | -0.1       |    |
| 61  | o-Xylene                       | 1.952 | 1.540 | 21.1       |    |
| 62  | Surr % Bromofluorobenzene      | 1.508 | 1.466 | 2.8        |    |
| 64  | Isopropylbenzene               | 2.402 | 2.113 | 12.0       |    |
| 66  | 4-Ethyltoluene                 | 2.400 | 2.464 | -2.7       |    |
| 67  | 1,3,5-Trimethylbenzene         | 2.047 | 1.966 | 4.0        |    |
| 68  | 1,2,4-Trimethylbenzene         | 1.977 | 2.034 | -2.9       |    |
| 70  | qf Benzyl chloride             | 1.000 | 0.685 | 31.5       |    |
| 71  | 1,3-Dichlorobenzene            | 1.486 | 1.599 | -7.6       |    |
| 72  | 1,4-Dichlorobenzene            | 1.464 | 1.401 | 4.3        |    |
| 73  | sec-Butylbenzene               | 2.715 | 2.828 | -4.2       |    |
| 74  | 4-Isopropyltoluene             | 2.202 | 2.149 | 2.4        |    |
| 75  | 1,2-Dichlorobenzene            | 1.348 | 1.426 | -5.8       |    |
| 76  | n-Butylbenzene                 | 1.780 | 1.949 | -9.5       |    |
| 77  | qf 1,2,4-Trichlorobenzene      | 1.000 | 0.607 | 39.3       |    |
| 79  | qf Hexachlorobutadiene         | 1.000 | 1.036 | -3.6       |    |
| 80  | int Bromochloromethane(sim)    | 1.000 | 1.000 | 0.0        | 83 |
| 81  | 1,2-Dichlorotetrafluoroetha    | 2.507 | 2.576 | -2.8       |    |
| 82  | Vinyl Chloride(sim)            | 1.048 | 1.032 | 1.5        |    |
| 83  | Bromomethane(sim)              | 1.527 | 1.417 | 7.2        |    |
| 84  | Trichlorofluoromethane(sim)    | 3.897 | 3.906 | -0.2       |    |
| 85  | 1,1,1-Trichloroethane(sim)     | 2.381 | 2.353 | 1.2        |    |
| 86  | Carbon Tetrachloride(sim)      | 2.702 | 2.747 | -1.7       |    |
| 87  | 1,1-Dichloroethene(sim)        | 1.774 | 1.722 | 2.9        |    |
| 88  | qf Trichlorotrifluoroethane(si | 1.000 | 1.061 | -6.1       |    |
| 89  | Trans-1,2-Dichloroethene(si    | 1.331 | 1.232 | 7.4        |    |
| 90  | 1,1-Dichloroethane(sim)        | 1.870 | 1.737 | 7.1        |    |
| 91  | Cis-1,2-Dichloroethene(sim)    | 1.239 | 1.198 | 3.3        |    |
| 92  | Chloroform(sim)                | 2.342 | 2.319 | 1.0        |    |
| 93  | 1,2-Dichloroethane(sim)        | 1.594 | 1.589 | 0.3        |    |
| 94  | int 1,4-Difluorobenzene(sim)   | 1.000 | 1.000 | 0.0        | 80 |
| 95  | 1,2-dichloropropane(sim)       | 0.286 | 0.271 | 5.2        |    |
| 96  | Bromodichloromethane(sim)      | 0.871 | 0.904 | -3.8       |    |
| 97  | Trichloroethene(sim)           | 0.438 | 0.402 | 8.2        |    |
| 98  | qf 1,4-Dioxane(sim)            | 1.000 | 0.891 | 10.9       |    |
| 99  | cis-1,3-Dichloropropene(sim)   | 0.469 | 0.465 | 0.9        |    |
| 100 | 1,1,2-Trichloroethane(sim)     | 0.442 | 0.443 | -0.2       |    |
| 101 | Dibromochloromethane(sim)      | 0.911 | 0.921 | -1.1       |    |
| 102 | 1,2-Dibromoethane(EDB)(sim)    | 0.755 | 0.723 | 4.2        |    |
| 103 | Tetrachloroethene(sim)         | 0.598 | 0.610 | -2.0       |    |
| 104 | int Chlorobenzene-d5(sim)      | 1.000 | 1.000 | 0.0        | 83 |
| 105 | Bromoform(sim)                 | 1.455 | 1.534 | -5.4       |    |
| 106 | 1,1,1,2-Tetrachloroethane(s    | 0.908 | 0.908 | 0.0        |    |
| 107 | qf m, p-Xylene(sim)            | 2.000 | 1.946 | 2.7        |    |
| 108 | 1,1,2,2-Tetrachloroethane(s    | 1.670 | 1.622 | 2.9        |    |
| 111 | qf Benzyl chloride(sim)        | 1.000 | 0.969 | 3.1        |    |
| 112 | 1,3-Dichlorobenzene(sim)       | 1.521 | 1.639 | -7.8       |    |

# Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_01.D  
 Acq On : 6 Dec 2019 3:09 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
 Lab ID : 1ppb cc - 1ppb cc  
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 06 15:54:15 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.  
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|        | Compound                    | AvgRF | CCRF  | %Dev Area% |
|--------|-----------------------------|-------|-------|------------|
| 113 qf | 1,4-Dichlorobenzene(sim)    | 1.000 | 0.991 | 0.9        |
| 114 qf | sec-Butylbenzene(sim)       | 1.000 | 0.987 | 1.3        |
| 115 qf | 4-Isopropyltoluene(sim)     | 1.000 | 0.960 | 4.0        |
| 116 qf | 1,2-Dichlorobenzene(sim)    | 1.000 | 1.029 | -2.9       |
| 117 qf | n-Butylbenzene(sim)         | 1.000 | 1.038 | -3.8       |
| 118 qf | 1,2,4-Trichlorobenzene(sim) | 1.000 | 0.844 | 15.6       |
| 119    | Hexachlorobutadiene(sim)    | 1.204 | 1.262 | -4.8       |

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)  
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_01.D  
 Acq On : 6 Dec 2019 3:09 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
 Lab ID : 1ppb cc - 1ppb cc  
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 06 15:54:15 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.504  | 130  | 383702   | 10.000 | ng    | -0.03    |
| 36) 1,4-Difluorobenzene      | 7.422  | 114  | 997765   | 10.000 | ng    | -0.02    |
| 53) Chlorobenzene-d5         | 10.988 | 82   | 554032   | 10.000 | ng    | -0.01    |
| 80) Bromochloromethane(sim)  | 5.506  | 130  | 398762   | 10.000 | ng    | #-0.03   |
| 94) 1,4-Difluorobenzene(sim) | 7.425  | 114  | 1105557  | 10.000 | ng    | #-0.02   |
| 104) Chlorobenzene-d5(sim)   | 10.990 | 82   | 604568   | 10.000 | ng    | -0.01    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 62) % Bromofluorobenzene    | 12.464 | 95    | 812211   | 9.720    | ppbv | -0.01  |
| Spiked Amount               | 10.000 | Range | 70 - 130 | Recovery | =    | 97.20% |

| Target Compounds              | R.T.   | QIon | Response | Conc  | Units | Qvalue |
|-------------------------------|--------|------|----------|-------|-------|--------|
| 2) Propylene                  | 1.471  | 41   | 29065    | 0.817 | ppbv# | 71     |
| 3) Dichlorodifluoromethane    | 1.506  | 101  | 18834    | 1.162 | ppbv# | 72     |
| 4) Chloromethane              | 1.649  | 50   | 35454    | 1.161 | ppbv  | 92     |
| 5) 1,2-Dichlorotetrafluor...  | 1.615  | 135  | 102711   | 1.144 | ppbv  | 89     |
| 6) Vinyl Chloride             | 1.725  | 62   | 38573    | 1.066 | ppbv  | 97     |
| 7) 1,3-Butadiene              | 1.745  | 54   | 22498    | 1.045 | ppbv# | 44     |
| 8) Bromomethane               | 1.985  | 94   | 56522    | 1.062 | ppbv# | 67     |
| 9) Chloroethane               | 2.095  | 64   | 18881    | 1.026 | ppbv# | 60     |
| 10) Ethanol                   | 2.711  | 45   | 11148    | 1.171 | ppbv# | 62     |
| 12) Acetone                   | 3.381  | 43   | 73136    | 1.181 | ppbv  | 100    |
| 13) Trichlorofluoromethane    | 2.225  | 101  | 149972   | 1.208 | ppbv# | 90     |
| 14) Isopropylalcohol          | 3.340  | 45   | 53583    | 1.009 | ppbv# | 1      |
| 15) Acrylonitrile             | 4.380  | 53   | 15486    | 0.865 | ppbv# | 82     |
| 16) 1,1-Dichloroethene        | 2.684  | 61   | 68664    | 1.093 | ppbv# | 79     |
| 17) Methylene Chloride        | 3.299  | 49   | 41453    | 1.043 | ppbv  | 93     |
| 20) Carbon Disulfide          | 2.684  | 76   | 124716   | 1.155 | ppbv  | 99     |
| 21) Trichlorotrifluoroethane  | 2.745  | 101  | 102323   | 1.198 | ppbv# | 85     |
| 22) Trans-1,2-Dichloroethene  | 3.498  | 61   | 49127    | 0.971 | ppbv  | 97     |
| 23) 1,1-Dichloroethane        | 4.317  | 63   | 63092    | 0.950 | ppbv  | 100    |
| 24) Methyl tert-butyl ethe... | 3.696  | 73   | 81457    | 0.944 | ppbv# | 94     |
| 25) Methyl Ethyl Ketone       | 6.181  | 43   | 48881    | 0.998 | ppbv# | 63     |
| 26) Cis-1,2-Dichloroethene    | 5.194  | 61   | 47867    | 0.907 | ppbv# | 67     |
| 27) Hexane                    | 3.634  | 57   | 35624    | 0.735 | ppbv  | 95     |
| 28) Chloroform                | 5.698  | 83   | 87239    | 0.997 | ppbv  | 82     |
| 29) Ethyl acetate             | 5.987  | 43   | 57155    | 0.971 | ppbv  | 100    |
| 30) Tetrahydrofuran           | 5.922  | 42   | 18938    | 0.814 | ppbv# | 31     |
| 31) 1,2-Dichloroethane        | 6.785  | 62   | 63383    | 0.992 | ppbv# | 84     |
| 32) 1,1,1-Trichloroethane     | 5.943  | 97   | 93910    | 1.052 | ppbv# | 77     |
| 33) Benzene                   | 6.498  | 78   | 83518    | 0.951 | ppbv# | 82     |
| 34) Carbon Tetrachloride      | 5.842  | 117  | 105812   | 1.035 | ppbv  | 93     |
| 35) Cyclohexane               | 5.496  | 56   | 33842    | 0.823 | ppbv# | 26     |
| 37) 1,2-dichloropropane       | 7.997  | 63   | 29918    | 0.898 | ppbv# | 63     |
| 38) Bromodichloromethane      | 8.141  | 83   | 92784    | 1.014 | ppbv  | 83     |
| 39) Trichloroethene           | 7.347  | 130  | 44392    | 0.871 | ppbv  | 92     |
| 41) 1,4-Dioxane               | 8.406  | 88   | 15442    | 0.761 | ppbv# | 71     |
| 43) Heptane                   | 6.593  | 43   | 37723    | 0.935 | ppbv# | 23     |
| 44) cis-1,3-Dichloropropene   | 8.933  | 75   | 51455    | 0.825 | ppbv  | 94     |
| 45) 4-Methyl-2-pentanone(M... | 9.720  | 43   | 60265    | 1.004 | ppbv# | 79     |
| 46) trans-1,3-Dichloropropene | 9.742  | 75   | 56724    | 1.037 | ppbv# | 89     |
| 47) 1,1,2-Trichloroethane     | 9.922  | 97   | 43553    | 0.969 | ppbv# | 92     |
| 48) Toluene                   | 9.215  | 91   | 92955    | 0.887 | ppbv  | 92     |
| 49) Dibromochloromethane      | 10.117 | 129  | 101809   | 0.996 | ppbv# | 91     |
| 50) 2-Hexanone(MBK)           | 10.727 | 43   | 49949    | 0.754 | ppbv# | 92     |
| 51) 1,2-Dibromoethane(EDB)    | 10.341 | 107  | 73352    | 0.925 | ppbv  | 95     |

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_01.D  
 Acq On : 6 Dec 2019 3:09 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
 Lab ID : 1ppb cc - 1ppb cc  
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 06 15:54:15 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

|      | Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|----------------------------|--------|------|----------|-------|-------|----------|
| 52)  | Tetrachloroethene          | 9.669  | 166  | 67492    | 0.940 | ppbv  | 91       |
| 54)  | 1,1,1,2-Tetrachloroethane  | 11.111 | 131  | 51300    | 1.027 | ppbv# | 91       |
| 55)  | Chlorobenzene              | 11.008 | 112  | 80570    | 0.969 | ppbv# | 1        |
| 56)  | Ethylbenzene               | 11.084 | 91   | 127730   | 1.024 | ppbv  | 96       |
| 57)  | m,p-Xylene                 | 11.269 | 91   | 190135   | 2.070 | ppbv  | 98       |
| 58)  | Bromoform                  | 11.825 | 173  | 93120    | 1.057 | ppbv  | 89       |
| 59)  | Styrene                    | 11.832 | 104  | 63663    | 0.914 | ppbv# | 75       |
| 60)  | 1,1,2,2-Tetrachloroethane  | 12.756 | 83   | 89764    | 1.001 | ppbv  | 99       |
| 61)  | o-Xylene                   | 11.770 | 91   | 85339    | 0.789 | ppbv# | 91       |
| 64)  | Isopropylbenzene           | 12.159 | 105  | 117040   | 0.880 | ppbv# | 91       |
| 66)  | 4-Ethyltoluene             | 12.802 | 105  | 136498   | 1.026 | ppbv  | 96       |
| 67)  | 1,3,5-Trimethylbenzene     | 12.918 | 105  | 108935   | 0.961 | ppbv  | 90       |
| 68)  | 1,2,4-Trimethylbenzene     | 13.373 | 105  | 112704   | 1.029 | ppbv# | 96       |
| 70)  | Benzyl chloride            | 14.015 | 91   | 66769    | 0.685 | ppbv# | 65       |
| 71)  | 1,3-Dichlorobenzene        | 13.678 | 146  | 88594    | 1.076 | ppbv  | 98       |
| 72)  | 1,4-Dichlorobenzene        | 13.775 | 146  | 77616    | 0.957 | ppbv# | 91       |
| 73)  | sec-Butylbenzene           | 13.496 | 105  | 156695   | 1.042 | ppbv  | 97       |
| 74)  | 4-Isopropyltoluene         | 13.665 | 119  | 119046   | 0.976 | ppbv# | 89       |
| 75)  | 1,2-Dichlorobenzene        | 14.151 | 146  | 79032    | 1.059 | ppbv  | 88       |
| 76)  | n-Butylbenzene             | 14.060 | 91   | 107998   | 1.095 | ppbv# | 90       |
| 77)  | 1,2,4-Trichlorobenzene     | 15.314 | 180  | 27385    | 0.607 | ppbv  | 91       |
| 79)  | Hexachlorobutadiene        | 15.319 | 225  | 76303    | 1.036 | ppbv  | 99       |
| 81)  | 1,2-Dichlorotetrafluor...  | 1.615  | 135  | 102711   | 1.027 | ppbv  | 89       |
| 82)  | Vinyl Chloride(sim)        | 1.721  | 62   | 41140    | 0.985 | ppbv  | 98       |
| 83)  | Bromomethane(sim)          | 1.985  | 94   | 56522    | 0.928 | ppbv# | 72       |
| 84)  | Trichlorofluoromethane...  | 2.221  | 101  | 155751   | 1.002 | ppbv  | 94       |
| 85)  | 1,1,1-Trichloroethane...   | 5.943  | 97   | 93830    | 0.988 | ppbv# | 83       |
| 86)  | Carbon Tetrachloride(sim)  | 5.845  | 117  | 109526   | 1.017 | ppbv  | 98       |
| 87)  | 1,1-Dichloroethene(sim)    | 2.684  | 61   | 68659    | 0.971 | ppbv# | 70       |
| 88)  | Trichlorotrifluoroetha...  | 2.748  | 101  | 104827   | 1.061 | ppbv  | 100      |
| 89)  | Trans-1,2-Dichloroethe...  | 3.498  | 61   | 49127    | 0.926 | ppbv  | 90       |
| 90)  | 1,1-Dichloroethane(sim)    | 4.315  | 63   | 69274    | 0.929 | ppbv  | 97       |
| 91)  | Cis-1,2-Dichloroethene...  | 5.194  | 61   | 47780    | 0.967 | ppbv# | 67       |
| 92)  | Chloroform(sim)            | 5.701  | 83   | 92456    | 0.990 | ppbv  | 100      |
| 93)  | 1,2-Dichloroethane(sim)    | 6.785  | 62   | 63383    | 0.997 | ppbv# | 54       |
| 95)  | 1,2-dichloropropane(sim)   | 7.997  | 63   | 29918    | 0.946 | ppbv# | 76       |
| 96)  | Bromodichloromethane(sim)  | 8.137  | 83   | 99925    | 1.038 | ppbv  | 99       |
| 97)  | Trichloroethene(sim)       | 7.347  | 130  | 44392    | 0.917 | ppbv# | 86       |
| 98)  | 1,4-Dioxane(sim)           | 8.409  | 88   | 17769    | 0.891 | ppbv# | 90       |
| 99)  | cis-1,3-Dichloropropen...  | 8.933  | 75   | 51455    | 0.992 | ppbv  | 94       |
| 100) | 1,1,2-Trichloroethane(...) | 9.918  | 97   | 49023    | 1.003 | ppbv  | 95       |
| 101) | Dibromochloromethane(sim)  | 10.117 | 129  | 101809   | 1.010 | ppbv  | 93       |
| 102) | 1,2-Dibromoethane(EDB)...  | 10.344 | 107  | 79934    | 0.957 | ppbv  | 98       |
| 103) | Tetrachloroethene(sim)     | 9.669  | 166  | 67492    | 1.021 | ppbv  | 79       |
| 105) | Bromoform(sim)             | 11.825 | 173  | 92713    | 1.054 | ppbv# | 1        |
| 106) | 1,1,1,2-Tetrachloroeth...  | 11.107 | 131  | 54894    | 0.999 | ppbv  | 99       |
| 107) | m,p-Xylene(sim)            | 11.269 | 91   | 190142   | 1.946 | ppbv  | 98       |
| 108) | 1,1,2,2-Tetrachloroeth...  | 12.759 | 83   | 98083    | 0.972 | ppbv  | 98       |
| 111) | Benzyl chloride(sim)       | 14.015 | 91   | 66769    | 0.969 | ppbv  | 65       |
| 112) | 1,3-Dichlorobenzene(sim)   | 13.681 | 146  | 99085    | 1.077 | ppbv  | 99       |
| 113) | 1,4-Dichlorobenzene(sim)   | 13.775 | 146  | 77616    | 0.991 | ppbv  | 91       |
| 114) | sec-Butylbenzene(sim)      | 13.492 | 105  | 168905   | 0.987 | ppbv  | 97       |
| 115) | 4-Isopropyltoluene(sim)    | 13.665 | 119  | 119046   | 0.960 | ppbv# | 89       |
| 116) | 1,2-Dichlorobenzene(sim)   | 14.148 | 146  | 87120    | 1.029 | ppbv  | 99       |
| 117) | n-Butylbenzene(sim)        | 14.060 | 91   | 107998   | 1.038 | ppbv  | 90       |
| 118) | 1,2,4-Trichlorobenzene...  | 15.317 | 180  | 29432    | 0.844 | ppbv# | 79       |
| 119) | Hexachlorobutadiene(sim)   | 15.319 | 225  | 76303    | 1.048 | ppbv# | 90       |

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
Data File : 1206\_01.D  
Acq On : 6 Dec 2019 3:09 pm  
Operator : Keith  
Client ID : BFB TUNE - CCAL 1  
Lab ID : 1ppb cc - 1ppb cc  
ALS Vial : 97 Sample Multiplier: 1

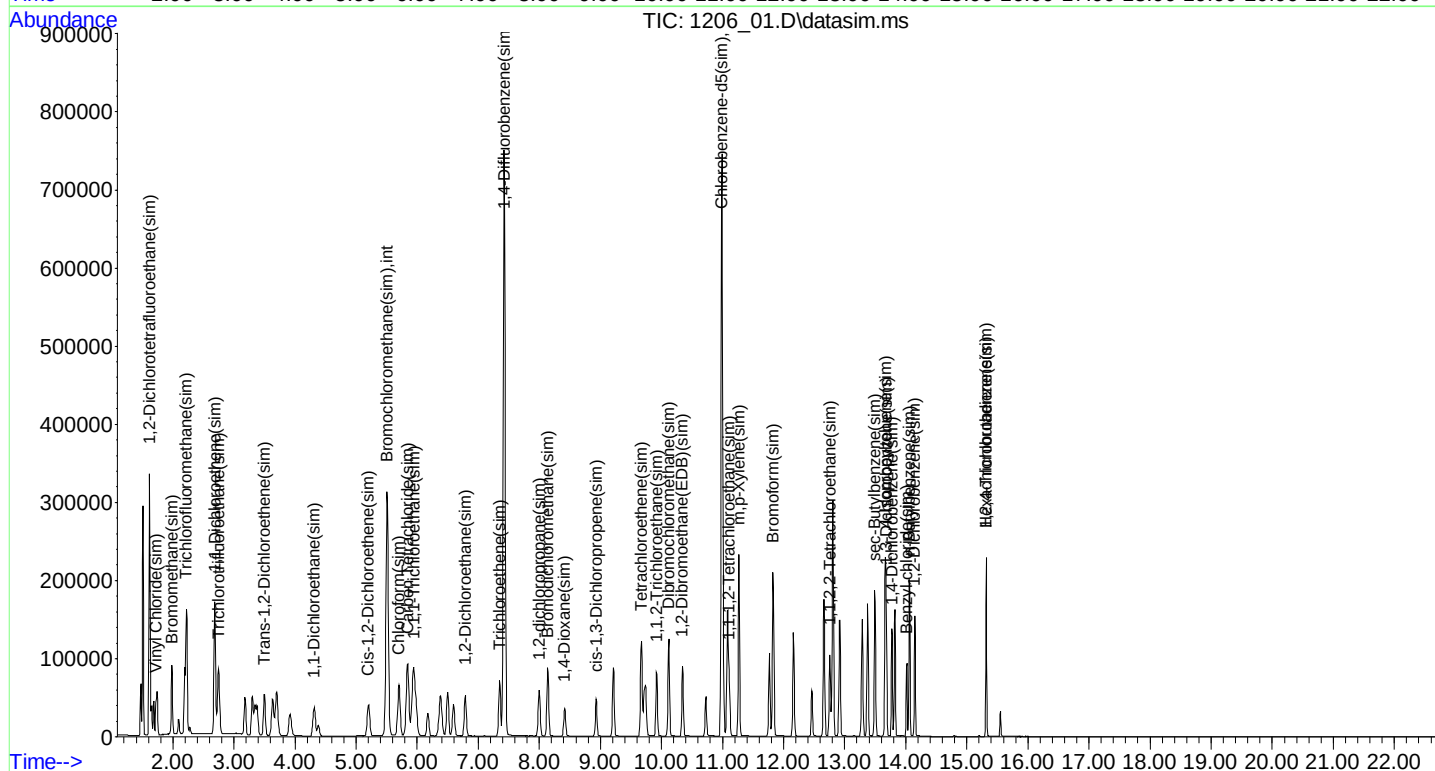
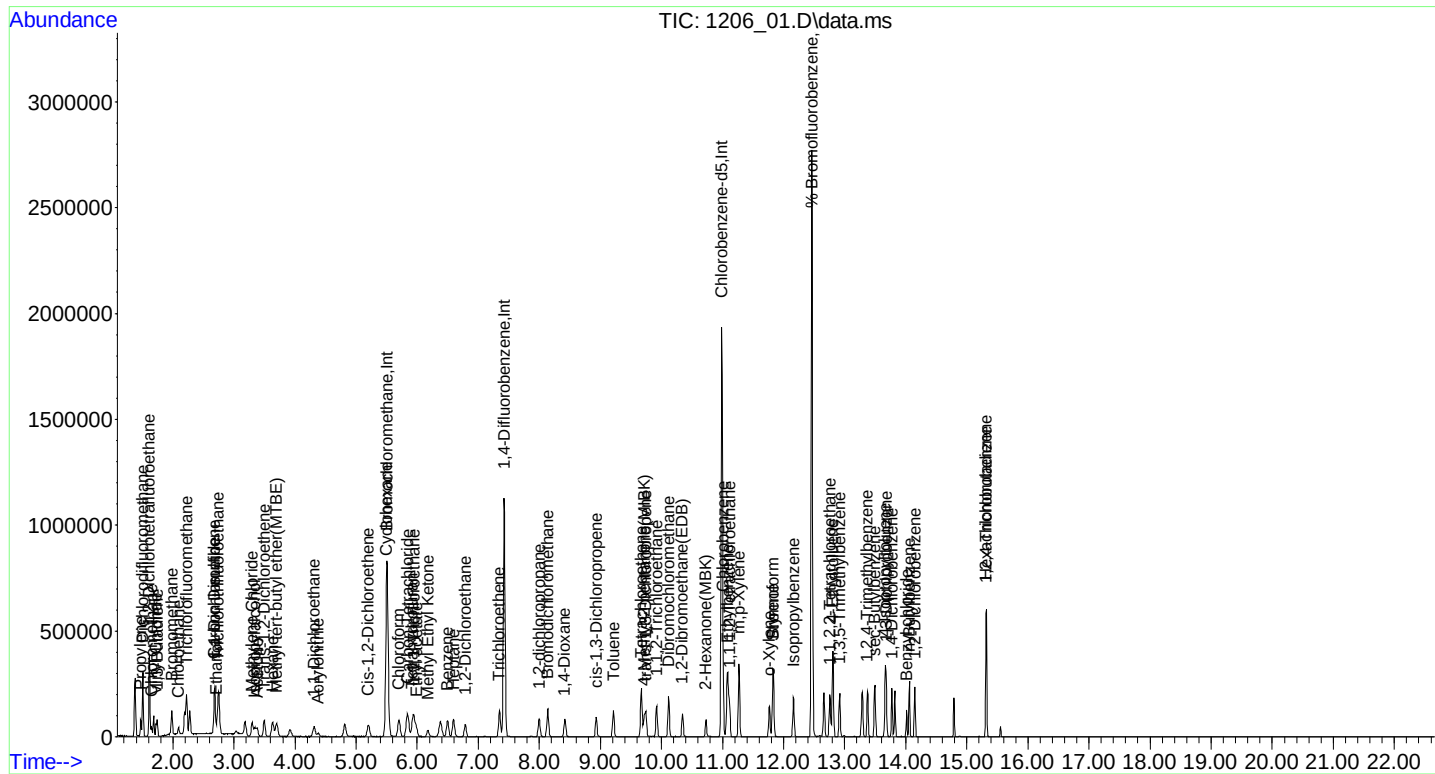
Quant Time: Dec 06 15:54:15 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Wed Dec 04 08:59:27 2019  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
Data File : 1206\_01.D  
Acq On : 6 Dec 2019 3:09 pm  
Operator : Keith  
Client ID : BFB TUNE - CCAL 1  
Lab ID : 1ppb cc - 1ppb cc  
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 06 15:54:15 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Last Update : Wed Dec 04 08:59:27 2019  
Response via : Initial Calibration





7A  
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.:  SAS No.:  SDG No.: GCE81145

Instrument: CHEM24 Calibration Date: 12/08/19 Time: 23:01

Lab File Id: 1208\_02.D Init. Calib. Date(s): 12/07/19 12/07/19

Heated Purge (Y/N): Y Init. Calib. Times: 16:38 23:28

GC Column: RTX-VMS Method File: 24AIR\_1207.M

| COMPOUND                      | RRF   | RRF1  | RRF MIN | %D      | % D LIMITS |
|-------------------------------|-------|-------|---------|---------|------------|
| Propylene                     | 0.957 | 0.791 |         | 17.3    | 30         |
| Dichlorodifluoromethane       | 0.443 | 0.536 |         | -21.0   | 30         |
| Chloromethane                 | 0.850 | 1.048 |         | -23.3   | 30         |
| 1,2-Dichlorotetrafluoroethane | 2.549 | 2.998 |         | -17.6   | 30         |
| Vinyl Chloride                | 0.977 | 1.081 |         | -10.6   | 30         |
| 1,3-Butadiene                 | 0.578 | 0.624 |         | -8.0    | 30         |
| Bromomethane                  | 1.561 | 1.694 |         | -8.5    | 30         |
| Chloroethane                  | 0.542 | 0.552 |         | -1.8    | 30         |
| Ethanol                       | 0.267 | 0.362 |         | -35.6 # | 30         |
| Acetone                       | 1.579 | 1.766 |         | -11.8   | 30         |
| Trichlorofluoromethane        | 3.730 | 4.368 |         | -17.1   | 30         |
| Isopropylalcohol              | 1.520 | 1.620 |         | -6.6    | 30         |
| Acrylonitrile                 | 0.462 | 0.461 |         | 0.2     | 30         |
| 1,1-Dichloroethene            | 1.814 | 1.972 |         | -8.7    | 30         |
| Methylene Chloride            | 1.138 | 1.244 |         | -9.3    | 30         |
| Carbon Disulfide              | 3.148 | 3.838 |         | -21.9   | 30         |
| Trichlorotrifluoroethane      | 2.594 | 2.943 |         | -13.5   | 30         |
| Trans-1,2-Dichloroethene      | 1.397 | 1.433 |         | -2.6    | 30         |
| 1,1-Dichloroethane            | 1.776 | 1.783 |         | -0.4    | 30         |
| Methyl tert-butyl ether(MTBE) | 2.277 | 2.354 |         | -3.4    | 30         |
| Methyl Ethyl Ketone           | 1.644 | 1.587 |         | 3.5     | 30         |
| Cis-1,2-Dichloroethene        | 1.386 | 1.302 |         | 6.1     | 30         |
| Hexane                        | 1.096 | 1.067 |         | 2.6     | 30         |
| Chloroform                    | 2.434 | 2.482 |         | -2.0    | 30         |
| Ethyl acetate                 | 1.582 | 1.670 |         | -5.6    | 30         |
| Tetrahydrofuran               | 0.591 | 0.625 |         | -5.8    | 30         |
| 1,2-Dichloroethane            | 1.773 | 1.825 |         | -2.9    | 30         |
| 1,1,1-Trichloroethane         | 2.505 | 2.673 |         | -6.7    | 30         |
| Benzene                       | 2.300 | 2.345 |         | -2.0    | 30         |
| Carbon Tetrachloride          | 2.915 | 3.039 |         | -4.3    | 30         |
| Cyclohexane                   | 1.039 | 0.954 |         | 8.2     | 30         |
| 1,2-dichloropropane           | 0.338 | 0.326 |         | 3.6     | 30         |
| Bromodichloromethane          | 1.000 | 1.025 |         | -2.5    | 30         |
| Trichloroethene               | 0.515 | 0.502 |         | 2.5     | 30         |
| 1,4-Dioxane                   | 0.202 | 0.173 |         | 14.4    | 30         |

(\*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B  
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.:  SAS No.:  SDG No.: GCE81145

Instrument: CHEM24 Calibration Date: 12/08/19 Time: 23:01

Lab File Id: 1208\_02.D Init. Calib. Date(s): 12/07/19 12/07/19

Heated Purge (Y/N): Y Init. Calib. Times: 16:38 23:28

GC Column: RTX-VMS Method File: 24AIR\_1207.M

| COMPOUND                           | RRF   | RRF1  | RRF MIN | %D     | % D LIMITS |
|------------------------------------|-------|-------|---------|--------|------------|
| Heptane                            | 0.403 | 0.398 |         | 1.2    | 30         |
| cis-1,3-Dichloropropene            | 0.613 | 0.554 |         | 9.6    | 30         |
| 4-Methyl-2-pentanone(MIBK)         | 0.607 | 0.642 |         | -5.8   | 30         |
| trans-1,3-Dichloropropene          | 0.570 | 0.641 |         | -12.5  | 30         |
| 1,1,2-Trichloroethane              | 0.475 | 0.496 |         | -4.4   | 30         |
| Toluene                            | 1.034 | 0.987 |         | 4.5    | 30         |
| Dibromochloromethane               | 1.110 | 1.137 |         | -2.4   | 30         |
| 2-Hexanone(MBK)                    | 0.673 | 0.555 |         | 17.5   | 30         |
| 1,2-Dibromoethane(EDB)             | 0.837 | 0.828 |         | 1.1    | 30         |
| Tetrachloroethene                  | 0.736 | 0.730 |         | 0.8    | 30         |
| 1,1,1,2-Tetrachloroethane          | 0.965 | 1.041 |         | -7.9   | 30         |
| Chlorobenzene                      | 1.607 | 1.668 |         | -3.8   | 30         |
| Ethylbenzene                       | 2.328 | 2.582 |         | -10.9  | 30         |
| m,p-Xylene                         | 1.657 | 1.502 |         | 9.4    | 30         |
| Bromoform                          | 1.713 | 1.972 |         | -15.1  | 30         |
| Styrene                            | 1.257 | 1.274 |         | -1.4   | 30         |
| 1,1,2,2-Tetrachloroethane          | 1.746 | 1.840 |         | -5.4   | 30         |
| o-Xylene                           | 1.921 | 1.676 |         | 12.8   | 30         |
| Isopropylbenzene                   | 2.340 | 2.304 |         | 1.5    | 30         |
| 4-Ethyltoluene                     | 2.432 | 2.762 |         | -13.6  | 30         |
| 1,3,5-Trimethylbenzene             | 2.063 | 2.193 |         | -6.3   | 30         |
| 1,2,4-Trimethylbenzene             | 2.060 | 2.281 |         | -10.7  | 30         |
| Benzyl chloride qfi                | 1.000 | 0.96  |         | 4.0    | 20         |
| 1,3-Dichlorobenzene                | 1.682 | 1.908 |         | -13.4  | 30         |
| 1,4-Dichlorobenzene                | 1.634 | 1.766 |         | -8.1   | 30         |
| sec-Butylbenzene                   | 2.853 | 3.142 |         | -10.1  | 30         |
| 4-Isopropyltoluene                 | 2.311 | 2.436 |         | -5.4   | 30         |
| 1,2-Dichlorobenzene                | 1.562 | 1.667 |         | -6.7   | 30         |
| n-Butylbenzene                     | 1.994 | 2.284 |         | -14.5  | 30         |
| 1,2,4-Trichlorobenzene qfi         | 1.000 | 0.76  |         | 24.0 # | 20         |
| Hexachlorobutadiene qfi            | 1.000 | 1.05  |         | -5.0   | 20         |
| 1,2-Dichlorotetrafluoroethane(sim) | 2.642 | 2.874 |         | -8.8   | 30         |
| Vinyl Chloride(sim)                | 1.039 | 1.126 |         | -8.4   | 30         |
| Bromomethane(sim)                  | 1.671 | 1.649 |         | 1.3    | 30         |
| Trichlorofluoromethane(sim)        | 4.378 | 4.257 |         | 2.8    | 30         |

(\*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B  
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: CEG

Lab Code: Phoenix Case No.:                      SAS No.:                      SDG No.: GCE81145

Instrument: CHEM24 Calibration Date: 12/08/19 Time: 23:01

Lab File Id: 1208\_02.D Init. Calib. Date(s): 12/07/19 12/07/19

Heated Purge (Y/N): Y Init. Calib. Times: 16:38 23:28

GC Column: RTX-VMS Method File: 24AIR\_1207.M

| COMPOUND                          | RRF   | RRF1  | RRF MIN | %D    | % D LIMITS |
|-----------------------------------|-------|-------|---------|-------|------------|
| 1,1,1-Trichloroethane(sim)        | 2.433 | 2.562 |         | -5.3  | 30         |
| Carbon Tetrachloride(sim)         | 2.889 | 3.027 |         | -4.8  | 30         |
| 1,1-Dichloroethene(sim)           | 1.814 | 1.888 |         | -4.1  | 30         |
| Trichlorotrifluoroethane(sim) qfi | 1.000 | 1.03  |         | -3.0  | 20         |
| Trans-1,2-Dichloroethene(sim)     | 1.382 | 1.373 |         | 0.7   | 30         |
| 1,1-Dichloroethane(sim)           | 1.839 | 1.859 |         | -1.1  | 30         |
| Cis-1,2-Dichloroethene(sim)       | 1.195 | 1.248 |         | -4.4  | 30         |
| Chloroform(sim)                   | 2.417 | 2.551 |         | -5.5  | 30         |
| 1,2-Dichloroethane(sim)           | 1.657 | 1.750 |         | -5.6  | 30         |
| 1,2-dichloropropane(sim)          | 0.266 | 0.291 |         | -9.4  | 30         |
| Bromodichloromethane(sim)         | 0.904 | 0.977 |         | -8.1  | 30         |
| Trichloroethene(sim)              | 0.434 | 0.447 |         | -3.0  | 30         |
| 1,4-Dioxane(sim) qfi              | 1.000 | 1.03  |         | -3.0  | 20         |
| cis-1,3-Dichloropropene(sim) qfi  | 1.000 | 1.04  |         | -4.0  | 20         |
| 1,1,2-Trichloroethane(sim)        | 0.443 | 0.478 |         | -7.9  | 30         |
| Dibromochloromethane(sim)         | 0.935 | 1.012 |         | -8.2  | 30         |
| 1,2-Dibromoethane(EDB)(sim)       | 0.717 | 0.785 |         | -9.5  | 30         |
| Tetrachloroethene(sim)            | 0.587 | 0.650 |         | -10.7 | 30         |
| Bromoform(sim)                    | 1.475 | 1.814 |         | -23.0 | 30         |
| 1,1,1,2-Tetrachloroethane(sim)    | 0.941 | 1.035 |         | -10.0 | 30         |
| m,p-Xylene(sim) qfi               | 2.000 | 2.19  |         | -9.5  | 20         |
| 1,1,2,2-Tetrachloroethane(sim)    | 1.667 | 1.815 |         | -8.9  | 30         |
| Benzyl chloride(sim) qfi          | 1.000 | 1.05  |         | -5.0  | 20         |
| 1,3-Dichlorobenzene(sim)          | 1.641 | 1.967 |         | -19.9 | 30         |
| 1,4-Dichlorobenzene(sim) q        | 1.000 | 1.08  |         | -8.0  | 20         |
| sec-Butylbenzene(sim) qfi         | 1.000 | 1.08  |         | -8.0  | 20         |
| 4-Isopropyltoluene(sim) qfi       | 1.000 | 1.06  |         | -6.0  | 20         |
| 1,2-Dichlorobenzene(sim) qfi      | 1.000 | 1.06  |         | -6.0  | 20         |
| n-Butylbenzene(sim) qfi           | 1.000 | 1.09  |         | -9.0  | 20         |
| 1,2,4-Trichlorobenzene(sim) q     | 1.000 | 0.97  |         | 3.0   | 20         |
| Hexachlorobutadiene(sim)          | 1.480 | 1.586 |         | -7.2  | 30         |
| % Bromofluorobenzene              | 1.539 | 1.516 |         | 1.5   | 30         |
|                                   |       |       |         |       |            |
|                                   |       |       |         |       |            |
|                                   |       |       |         |       |            |

(\*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

## Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_02.D  
 Acq On : 8 Dec 2019 11:01 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
 Lab ID : 1ppb cc ; 31w - 1ppb cc ; 31w  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 09:50:17 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.  
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|        | Compound                     | AvgRF | CCRF  | %Dev   | Area% |
|--------|------------------------------|-------|-------|--------|-------|
| 1 Int  | Bromochloromethane           | 1.000 | 1.000 | 0.0    | 79    |
| 2      | Propylene                    | 0.957 | 0.791 | 17.3   |       |
| 3      | Dichlorodifluoromethane      | 0.443 | 0.536 | -21.0  |       |
| 4      | Chloromethane                | 0.850 | 1.048 | -23.3  |       |
| 5      | 1,2-Dichlorotetrafluoroetha  | 2.549 | 2.998 | -17.6  |       |
| 6      | Vinyl Chloride               | 0.977 | 1.081 | -10.6  |       |
| 7      | 1,3-Butadiene                | 0.578 | 0.624 | -8.0   |       |
| 8      | Bromomethane                 | 1.561 | 1.694 | -8.5   |       |
| 9      | Chloroethane                 | 0.542 | 0.552 | -1.8   |       |
| 10     | Ethanol                      | 0.267 | 0.362 | -35.6# |       |
| 12     | Acetone                      | 1.579 | 1.766 | -11.8  |       |
| 13     | Trichlorofluoromethane       | 3.730 | 4.368 | -17.1  |       |
| 14     | Isopropylalcohol             | 1.520 | 1.620 | -6.6   |       |
| 15     | Acrylonitrile                | 0.462 | 0.461 | 0.2    |       |
| 16     | 1,1-Dichloroethene           | 1.814 | 1.972 | -8.7   |       |
| 17     | Methylene Chloride           | 1.138 | 1.244 | -9.3   |       |
| 20     | Carbon Disulfide             | 3.148 | 3.838 | -21.9  |       |
| 21     | Trichlorotrifluoroethane     | 2.594 | 2.943 | -13.5  |       |
| 22     | Trans-1,2-Dichloroethene     | 1.397 | 1.433 | -2.6   |       |
| 23     | 1,1-Dichloroethane           | 1.776 | 1.783 | -0.4   |       |
| 24     | Methyl tert-butyl ether(MTB) | 2.277 | 2.354 | -3.4   |       |
| 25     | Methyl Ethyl Ketone          | 1.644 | 1.587 | 3.5    |       |
| 26     | Cis-1,2-Dichloroethene       | 1.386 | 1.302 | 6.1    |       |
| 27     | Hexane                       | 1.096 | 1.067 | 2.6    |       |
| 28     | Chloroform                   | 2.434 | 2.482 | -2.0   |       |
| 29     | Ethyl acetate                | 1.582 | 1.670 | -5.6   |       |
| 30     | Tetrahydrofuran              | 0.591 | 0.625 | -5.8   |       |
| 31     | 1,2-Dichloroethane           | 1.773 | 1.825 | -2.9   |       |
| 32     | 1,1,1-Trichloroethane        | 2.505 | 2.673 | -6.7   |       |
| 33     | Benzene                      | 2.300 | 2.345 | -2.0   |       |
| 34     | Carbon Tetrachloride         | 2.915 | 3.039 | -4.3   |       |
| 35     | Cyclohexane                  | 1.039 | 0.954 | 8.2    |       |
| 36 Int | 1,4-Difluorobenzene          | 1.000 | 1.000 | 0.0    | 78    |
| 37     | 1,2-dichloropropane          | 0.338 | 0.326 | 3.6    |       |
| 38     | Bromodichloromethane         | 1.000 | 1.025 | -2.5   |       |
| 39     | Trichloroethene              | 0.515 | 0.502 | 2.5    |       |
| 41     | 1,4-Dioxane                  | 0.202 | 0.173 | 14.4   |       |
| 43     | Heptane                      | 0.403 | 0.398 | 1.2    |       |
| 44     | cis-1,3-Dichloropropene      | 0.613 | 0.554 | 9.6    |       |
| 45     | 4-Methyl-2-pentanone(MIBK)   | 0.607 | 0.642 | -5.8   |       |
| 46     | trans-1,3-Dichloropropene    | 0.570 | 0.641 | -12.5  |       |
| 47     | 1,1,2-Trichloroethane        | 0.475 | 0.496 | -4.4   |       |
| 48     | Toluene                      | 1.034 | 0.987 | 4.5    |       |
| 49     | Dibromochloromethane         | 1.110 | 1.137 | -2.4   |       |
| 50     | 2-Hexanone(MBK)              | 0.673 | 0.555 | 17.5   |       |
| 51     | 1,2-Dibromoethane(EDB)       | 0.837 | 0.828 | 1.1    |       |
| 52     | Tetrachloroethene            | 0.736 | 0.730 | 0.8    |       |
| 53 Int | Chlorobenzene-d5             | 1.000 | 1.000 | 0.0    | 81    |
| 54     | 1,1,1,2-Tetrachloroethane    | 0.965 | 1.041 | -7.9   |       |
| 55     | Chlorobenzene                | 1.607 | 1.668 | -3.8   |       |
| 56     | Ethylbenzene                 | 2.328 | 2.582 | -10.9  |       |

## Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_02.D  
 Acq On : 8 Dec 2019 11:01 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
 Lab ID : 1ppb cc ; 31w - 1ppb cc ; 31w  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 09:50:17 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

Note: Curves (l, lf, g, qf) display calculated concentration.  
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|     | Compound                       | AvgRF | CCRF  | %Dev  | Area% |
|-----|--------------------------------|-------|-------|-------|-------|
| 57  | m, p-Xylene                    | 1.657 | 1.502 | 9.4   |       |
| 58  | Bromoform                      | 1.713 | 1.972 | -15.1 |       |
| 59  | Styrene                        | 1.257 | 1.274 | -1.4  |       |
| 60  | 1,1,2,2-Tetrachloroethane      | 1.746 | 1.840 | -5.4  |       |
| 61  | o-Xylene                       | 1.921 | 1.676 | 12.8  |       |
| 62  | Surr % Bromofluorobenzene      | 1.539 | 1.516 | 1.5   |       |
| 64  | Isopropylbenzene               | 2.340 | 2.304 | 1.5   |       |
| 66  | 4-Ethyltoluene                 | 2.432 | 2.762 | -13.6 |       |
| 67  | 1,3,5-Trimethylbenzene         | 2.063 | 2.193 | -6.3  |       |
| 68  | 1,2,4-Trimethylbenzene         | 2.060 | 2.281 | -10.7 |       |
| 70  | qf Benzyl chloride             | 1.000 | 0.959 | 4.1   |       |
| 71  | 1,3-Dichlorobenzene            | 1.682 | 1.908 | -13.4 |       |
| 72  | 1,4-Dichlorobenzene            | 1.634 | 1.766 | -8.1  |       |
| 73  | sec-Butylbenzene               | 2.853 | 3.142 | -10.1 |       |
| 74  | 4-Isopropyltoluene             | 2.311 | 2.436 | -5.4  |       |
| 75  | 1,2-Dichlorobenzene            | 1.562 | 1.667 | -6.7  |       |
| 76  | n-Butylbenzene                 | 1.994 | 2.284 | -14.5 |       |
| 77  | qf 1,2,4-Trichlorobenzene      | 1.000 | 0.758 | 24.2  |       |
| 79  | qf Hexachlorobutadiene         | 1.000 | 1.053 | -5.3  |       |
| 80  | int Bromochloromethane(sim)    | 1.000 | 1.000 | 0.0   | 80    |
| 81  | 1,2-Dichlorotetrafluoroetha    | 2.642 | 2.874 | -8.8  |       |
| 82  | Vinyl Chloride(sim)            | 1.039 | 1.126 | -8.4  |       |
| 83  | Bromomethane(sim)              | 1.671 | 1.649 | 1.3   |       |
| 84  | Trichlorofluoromethane(sim)    | 4.378 | 4.257 | 2.8   |       |
| 85  | 1,1,1-Trichloroethane(sim)     | 2.433 | 2.562 | -5.3  |       |
| 86  | Carbon Tetrachloride(sim)      | 2.889 | 3.027 | -4.8  |       |
| 87  | 1,1-Dichloroethene(sim)        | 1.814 | 1.888 | -4.1  |       |
| 88  | Trichlorotrifluoroethane(si    | 2.854 | 2.919 | -2.3  |       |
| 89  | Trans-1,2-Dichloroethene(si    | 1.382 | 1.373 | 0.7   |       |
| 90  | 1,1-Dichloroethane(sim)        | 1.839 | 1.859 | -1.1  |       |
| 91  | Cis-1,2-Dichloroethene(sim)    | 1.195 | 1.248 | -4.4  |       |
| 92  | Chloroform(sim)                | 2.417 | 2.551 | -5.5  |       |
| 93  | 1,2-Dichloroethane(sim)        | 1.657 | 1.750 | -5.6  |       |
| 94  | int 1,4-Difluorobenzene(sim)   | 1.000 | 1.000 | 0.0   | 80    |
| 95  | 1,2-dichloropropane(sim)       | 0.266 | 0.291 | -9.4  |       |
| 96  | Bromodichloromethane(sim)      | 0.904 | 0.977 | -8.1  |       |
| 97  | Trichloroethene(sim)           | 0.434 | 0.447 | -3.0  |       |
| 98  | qf 1,4-Dioxane(sim)            | 1.000 | 1.034 | -3.4  |       |
| 99  | qf cis-1,3-Dichloropropene(sim | 1.000 | 1.041 | -4.1  |       |
| 100 | 1,1,2-Trichloroethane(sim)     | 0.443 | 0.478 | -7.9  |       |
| 101 | Dibromochloromethane(sim)      | 0.935 | 1.012 | -8.2  |       |
| 102 | 1,2-Dibromoethane(EDB)(sim)    | 0.717 | 0.785 | -9.5  |       |
| 103 | Tetrachloroethene(sim)         | 0.587 | 0.650 | -10.7 |       |
| 104 | int Chlorobenzene-d5(sim)      | 1.000 | 1.000 | 0.0   | 81    |
| 105 | Bromoform(sim)                 | 1.475 | 1.814 | -23.0 |       |
| 106 | 1,1,1,2-Tetrachloroethane(s    | 0.941 | 1.035 | -10.0 |       |
| 107 | qf m, p-Xylene(sim)            | 2.000 | 2.186 | -9.3  |       |
| 108 | 1,1,2,2-Tetrachloroethane(s    | 1.667 | 1.815 | -8.9  |       |
| 111 | qf Benzyl chloride(sim)        | 1.000 | 1.053 | -5.3  |       |
| 112 | 1,3-Dichlorobenzene(sim)       | 1.641 | 1.967 | -19.9 |       |

# Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_02.D  
 Acq On : 8 Dec 2019 11:01 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
 Lab ID : 1ppb cc ; 31w - 1ppb cc ; 31w  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 09:50:17 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.  
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|        | Compound                    | AvgRF | CCRF  | %Dev Area% |
|--------|-----------------------------|-------|-------|------------|
| 113 qf | 1,4-Dichlorobenzene(sim)    | 1.000 | 1.083 | -8.3       |
| 114 qf | sec-Butylbenzene(sim)       | 1.000 | 1.077 | -7.7       |
| 115 qf | 4-Isopropyltoluene(sim)     | 1.000 | 1.060 | -6.0       |
| 116 qf | 1,2-Dichlorobenzene(sim)    | 1.000 | 1.065 | -6.5       |
| 117 qf | n-Butylbenzene(sim)         | 1.000 | 1.094 | -9.4#      |
| 118 qf | 1,2,4-Trichlorobenzene(sim) | 1.000 | 0.965 | 3.5#       |
| 119    | Hexachlorobutadiene(sim)    | 1.480 | 1.586 | -7.2       |

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)  
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_02.D  
 Acq On : 8 Dec 2019 11:01 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
 Lab ID : 1ppb cc ; 31w - 1ppb cc ; 31w  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 09:50:17 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.475  | 130  | 310891   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.402  | 114  | 806456   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.974 | 82   | 442586   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.478  | 130  | 324293   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.405  | 114  | 904937   | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.970 | 82   | 480002   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

|                          |        |       |          |          |      |        |
|--------------------------|--------|-------|----------|----------|------|--------|
| 62) % Bromofluorobenzene | 12.445 | 95    | 670810   | 9.847    | ppbv | 0.00   |
| Spiked Amount            | 10.000 | Range | 70 - 130 | Recovery | =    | 98.50% |

## Target Compounds

|                               |        |     |        |       | Qvalue |     |
|-------------------------------|--------|-----|--------|-------|--------|-----|
| 2) Propylene                  | 1.465  | 41  | 24603  | 0.827 | ppbv#  | 64  |
| 3) Dichlorodifluoromethane    | 1.492  | 101 | 16649  | 1.210 | ppbv#  | 84  |
| 4) Chloromethane              | 1.636  | 50  | 32578  | 1.233 | ppbv   | 96  |
| 5) 1,2-Dichlorotetrafluor...  | 1.602  | 135 | 93205  | 1.176 | ppbv#  | 95  |
| 6) Vinyl Chloride             | 1.711  | 62  | 33605  | 1.106 | ppbv   | 49  |
| 7) 1,3-Butadiene              | 1.732  | 54  | 19396  | 1.079 | ppbv#  | 45  |
| 8) Bromomethane               | 1.965  | 94  | 52650  | 1.085 | ppbv   | 92  |
| 9) Chloroethane               | 2.074  | 64  | 17162  | 1.018 | ppbv#  | 85  |
| 10) Ethanol                   | 2.697  | 45  | 11242m | 1.357 | ppbv   | 85  |
| 12) Acetone                   | 3.361  | 43  | 54892m | 1.118 | ppbv   | 96  |
| 13) Trichlorofluoromethane    | 2.204  | 101 | 135809 | 1.171 | ppbv#  | 81  |
| 14) Isopropylalcohol          | 3.320  | 45  | 50370  | 1.066 | ppbv#  | 38  |
| 15) Acrylonitrile             | 4.356  | 53  | 14334  | 0.999 | ppbv#  | 8   |
| 16) 1,1-Dichloroethene        | 2.663  | 61  | 61298  | 1.087 | ppbv#  | 73  |
| 17) Methylene Chloride        | 3.279  | 49  | 38683  | 1.093 | ppbv#  | 81  |
| 20) Carbon Disulfide          | 2.663  | 76  | 119324 | 1.219 | ppbv   | 99  |
| 21) Trichlorotrifluoroethane  | 2.725  | 101 | 91485  | 1.134 | ppbv   | 95  |
| 22) Trans-1,2-Dichloroethene  | 3.470  | 61  | 44536  | 1.026 | ppbv#  | 78  |
| 23) 1,1-Dichloroethane        | 4.278  | 63  | 55439  | 1.004 | ppbv   | 69  |
| 24) Methyl tert-butyl ethe... | 3.676  | 73  | 73197  | 1.034 | ppbv#  | 61  |
| 25) Methyl Ethyl Ketone       | 6.152  | 43  | 49342  | 0.965 | ppbv#  | 52  |
| 26) Cis-1,2-Dichloroethene    | 5.172  | 61  | 40482  | 0.939 | ppbv#  | 69  |
| 27) Hexane                    | 3.607  | 57  | 33176  | 0.974 | ppbv#  | 69  |
| 28) Chloroform                | 5.677  | 83  | 77155  | 1.020 | ppbv   | 86  |
| 29) Ethyl acetate             | 5.965  | 43  | 51907  | 1.056 | ppbv#  | 33  |
| 30) Tetrahydrofuran           | 5.893  | 42  | 19424  | 1.057 | ppbv   | 100 |
| 31) 1,2-Dichloroethane        | 6.765  | 62  | 56738  | 1.030 | ppbv#  | 75  |
| 32) 1,1,1-Trichloroethane     | 5.915  | 97  | 83100  | 1.067 | ppbv#  | 77  |
| 33) Benzene                   | 6.470  | 78  | 72905  | 1.020 | ppbv#  | 89  |
| 34) Carbon Tetrachloride      | 5.814  | 117 | 94470  | 1.043 | ppbv   | 98  |
| 35) Cyclohexane               | 5.468  | 56  | 29650  | 0.918 | ppbv   | 89  |
| 37) 1,2-dichloropropane       | 7.977  | 63  | 26309  | 0.966 | ppbv#  | 65  |
| 38) Bromodichloromethane      | 8.114  | 83  | 82624  | 1.025 | ppbv   | 97  |
| 39) Trichloroethene           | 7.326  | 130 | 40470  | 0.975 | ppbv   | 90  |
| 41) 1,4-Dioxane               | 8.392  | 88  | 13971  | 0.858 | ppbv   | 100 |
| 43) Heptane                   | 6.566  | 43  | 32115  | 0.987 | ppbv   | 99  |
| 44) cis-1,3-Dichloropropene   | 8.912  | 75  | 44696  | 0.904 | ppbv   | 53  |
| 45) 4-Methyl-2-pentanone(M... | 9.699  | 43  | 51785  | 1.058 | ppbv#  | 53  |
| 46) trans-1,3-Dichloropropene | 9.727  | 75  | 51666  | 1.125 | ppbv   | 90  |
| 47) 1,1,2-Trichloroethane     | 9.901  | 97  | 39989  | 1.044 | ppbv#  | 70  |
| 48) Toluene                   | 9.193  | 91  | 79626  | 0.955 | ppbv   | 92  |
| 49) Dibromochloromethane      | 10.103 | 129 | 91655  | 1.024 | ppbv#  | 95  |
| 50) 2-Hexanone(MBK)           | 10.713 | 43  | 44796  | 0.825 | ppbv#  | 71  |
| 51) 1,2-Dibromoethane(EDB)    | 10.327 | 107 | 66807  | 0.989 | ppbv   | 99  |

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_02.D  
 Acq On : 8 Dec 2019 11:01 pm  
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 Lab ID : 1ppb cc ; 31w - 1ppb cc ; 31w  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 09:50:17 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

| Compound                        | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------------|--------|------|----------|-------|-------|----------|
| 52) Tetrachloroethene           | 9.648  | 166  | 58865    | 0.992 | ppbv  | 93       |
| 54) 1,1,1,2-Tetrachloroethane   | 11.091 | 131  | 46066    | 1.079 | ppbv# | 78       |
| 55) Chlorobenzene               | 10.988 | 112  | 73830    | 1.038 | ppbv# | 1        |
| 56) Ethylbenzene                | 11.070 | 91   | 114287   | 1.109 | ppbv  | 88       |
| 57) m,p-Xylene                  | 11.255 | 91   | 166157   | 2.266 | ppbv# | 93       |
| 58) Bromoform                   | 11.811 | 173  | 87263    | 1.151 | ppbv  | 91       |
| 59) Styrene                     | 11.818 | 104  | 56390    | 1.014 | ppbv# | 37       |
| 60) 1,1,2,2-Tetrachloroethane   | 12.743 | 83   | 81435    | 1.054 | ppbv  | 87       |
| 61) o-Xylene                    | 11.749 | 91   | 74175    | 0.872 | ppbv  | 89       |
| 64) Isopropylbenzene            | 12.146 | 105  | 101951   | 0.985 | ppbv  | 97       |
| 66) 4-Ethyltoluene              | 12.789 | 105  | 122252   | 1.136 | ppbv# | 70       |
| 67) 1,3,5-Trimethylbenzene      | 12.906 | 105  | 97073    | 1.063 | ppbv# | 95       |
| 68) 1,2,4-Trimethylbenzene      | 13.360 | 105  | 100972   | 1.108 | ppbv# | 95       |
| 70) Benzyl chloride             | 14.048 | 91   | 101103   | 0.959 | ppbv# | 89       |
| 71) 1,3-Dichlorobenzene         | 13.665 | 146  | 84431    | 1.134 | ppbv  | 96       |
| 72) 1,4-Dichlorobenzene         | 13.762 | 146  | 78169    | 1.081 | ppbv# | 91       |
| 73) sec-Butylbenzene            | 13.483 | 105  | 139039   | 1.101 | ppbv# | 90       |
| 74) 4-Isopropyltoluene          | 13.652 | 119  | 107804   | 1.054 | ppbv# | 91       |
| 75) 1,2-Dichlorobenzene         | 14.139 | 146  | 73770    | 1.067 | ppbv  | 92       |
| 76) n-Butylbenzene              | 14.048 | 91   | 101103   | 1.145 | ppbv# | 93       |
| 77) 1,2,4-Trichlorobenzene      | 15.290 | 180  | 42166    | 0.758 | ppbv# | 76       |
| 79) Hexachlorobutadiene         | 15.290 | 225  | 76150    | 1.053 | ppbv  | 98       |
| 81) 1,2-Dichlorotetrafluor...   | 1.602  | 135  | 93205    | 1.088 | ppbv# | 95       |
| 82) Vinyl Chloride(sim)         | 1.714  | 62   | 36521    | 1.084 | ppbv  | 91       |
| 83) Bromomethane(sim)           | 1.965  | 94   | 53466    | 0.986 | ppbv# | 52       |
| 84) Trichlorofluoromethane...   | 2.207  | 101  | 138063   | 0.972 | ppbv  | 94       |
| 85) 1,1,1-Trichloroethane(...)  | 5.915  | 97   | 83100    | 1.053 | ppbv# | 78       |
| 86) Carbon Tetrachloride(sim)   | 5.817  | 117  | 98153    | 1.048 | ppbv  | 99       |
| 87) 1,1-Dichloroethene(sim)     | 2.663  | 61   | 61221    | 1.040 | ppbv# | 60       |
| 88) Trichlorotrifluoroetha...   | 2.728  | 101  | 94673    | 1.033 | ppbv  | 99       |
| 89) Trans-1,2-Dichloroethe...   | 3.470  | 61   | 44536    | 0.994 | ppbv# | 78       |
| 90) 1,1-Dichloroethane(sim)     | 4.286  | 63   | 60288    | 1.011 | ppbv  | 98       |
| 91) Cis-1,2-Dichloroethene...   | 5.172  | 61   | 40482    | 1.044 | ppbv# | 68       |
| 92) Chloroform(sim)             | 5.672  | 83   | 82726    | 1.056 | ppbv  | 96       |
| 93) 1,2-Dichloroethane(sim)     | 6.765  | 62   | 56738    | 1.056 | ppbv  | 82       |
| 95) 1,2-dichloropropane(sim)    | 7.977  | 63   | 26309    | 1.094 | ppbv# | 79       |
| 96) Bromodichloromethane(sim)   | 8.117  | 83   | 88374    | 1.080 | ppbv  | 98       |
| 97) Trichloroethene(sim)        | 7.326  | 130  | 40470    | 1.031 | ppbv# | 84       |
| 98) 1,4-Dioxane(sim)            | 8.388  | 88   | 15992    | 1.034 | ppbv# | 17       |
| 99) cis-1,3-Dichloropropen...   | 8.912  | 75   | 44696    | 1.041 | ppbv# | 58       |
| 100) 1,1,2-Trichloroethane(...) | 9.904  | 97   | 43252    | 1.079 | ppbv  | 99       |
| 101) Dibromochloromethane(sim)  | 10.103 | 129  | 91583    | 1.083 | ppbv  | 98       |
| 102) 1,2-Dibromoethane(EDB)...  | 10.329 | 107  | 71076    | 1.095 | ppbv  | 98       |
| 103) Tetrachloroethene(sim)     | 9.648  | 166  | 58784    | 1.107 | ppbv# | 82       |
| 105) Bromoform(sim)             | 11.811 | 173  | 87054    | 1.230 | ppbv# | 79       |
| 106) 1,1,1,2-Tetrachloroeth...  | 11.094 | 131  | 49684    | 1.100 | ppbv  | 99       |
| 107) m,p-Xylene(sim)            | 11.255 | 91   | 166238   | 2.186 | ppbv# | 93       |
| 108) 1,1,2,2-Tetrachloroeth...  | 12.740 | 83   | 87113    | 1.089 | ppbv  | 99       |
| 111) Benzyl chloride(sim)       | 14.002 | 91   | 71019    | 1.053 | ppbv  | 93       |
| 112) 1,3-Dichlorobenzene(sim)   | 13.668 | 146  | 94425    | 1.199 | ppbv  | 98       |
| 113) 1,4-Dichlorobenzene(sim)   | 13.762 | 146  | 78108    | 1.083 | ppbv  | 86       |
| 114) sec-Butylbenzene(sim)      | 13.480 | 105  | 151663   | 1.077 | ppbv  | 98       |
| 115) 4-Isopropyltoluene(sim)    | 13.652 | 119  | 107804   | 1.060 | ppbv# | 91       |
| 116) 1,2-Dichlorobenzene(sim)   | 14.141 | 146  | 82798    | 1.065 | ppbv  | 99       |
| 117) n-Butylbenzene(sim)        | 14.048 | 91   | 101103   | 1.094 | ppbv  | 93       |
| 118) 1,2,4-Trichlorobenzene...  | 15.293 | 180  | 46312    | 0.965 | ppbv# | 89       |
| 119) Hexachlorobutadiene(sim)   | 15.290 | 225  | 76150    | 1.072 | ppbv# | 81       |



Data Path : H:\AIR2019\CHEM24\12DEC\08\  
Data File : 1208\_02.D  
Acq On : 8 Dec 2019 11:01 pm  
Operator : Keith  
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Lab ID : 1ppb cc ; 31w - 1ppb cc ; 31w  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 09:50:17 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Mon Dec 09 09:45:44 2019  
Response via : Initial Calibration

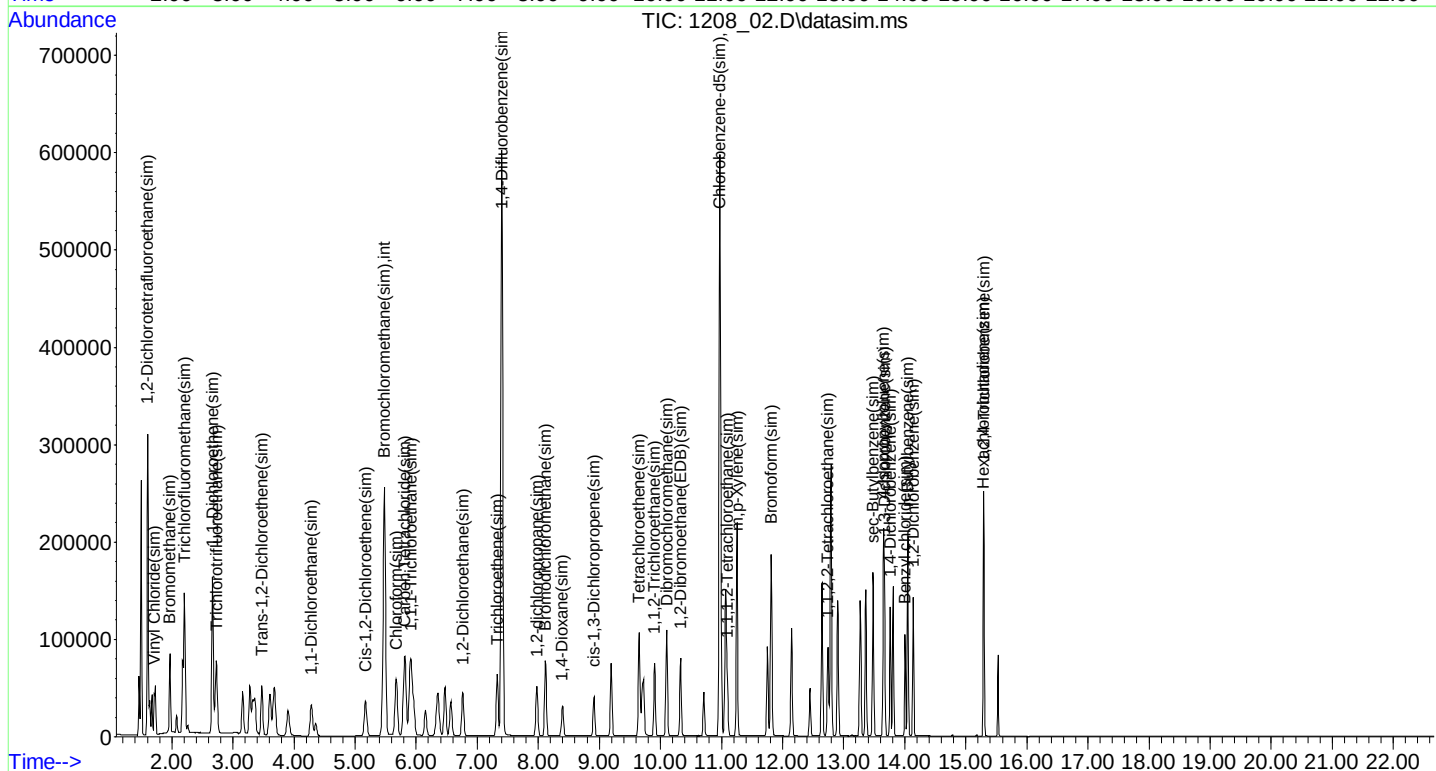
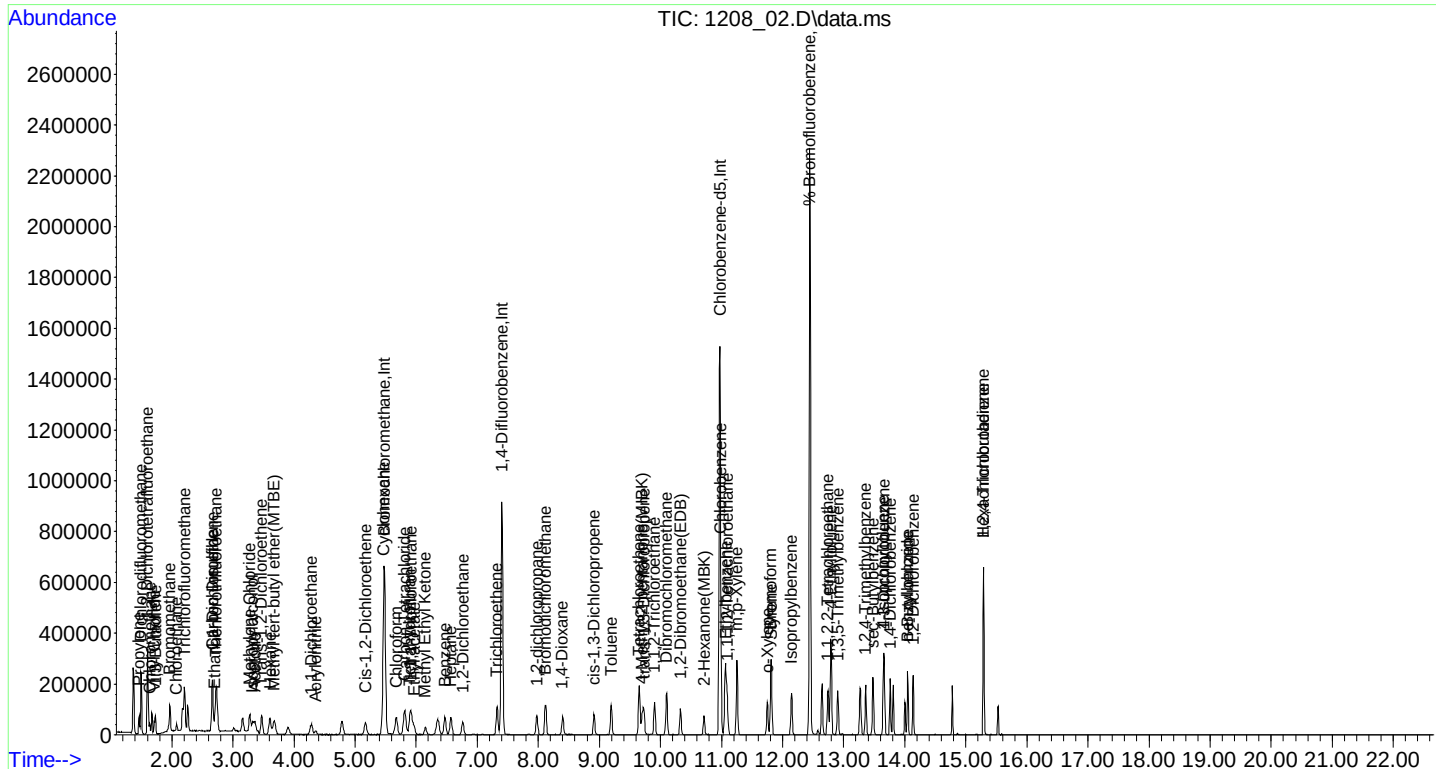
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_02.D  
 Acq On : 8 Dec 2019 11:01 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
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 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

|              |                 |                  |                          |                 |
|--------------|-----------------|------------------|--------------------------|-----------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> | CE81147 LCS     |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CE81147 LCS</u>       |                 |
| Canister:    | <u>LCS</u>      | Lab File ID:     | <u>1206_04.D</u>         |                 |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u>RTX-VMS</u>           | Date Received:  |
|              |                 |                  |                          | <u>12/05/19</u> |
| Purge Volume | <u>200</u>      | (cc)             | Date Analyzed:           | <u>12/06/19</u> |
| Matrix:      | <u>AIR</u>      | Dilution Factor: | <u>1</u>                 |                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.   | COMPOUND                      | CONC. | Q | MDL   | PQL   | R |
|-----------|-------------------------------|-------|---|-------|-------|---|
| 115-07-1  | Propylene                     | 11.8  |   | 0.581 | 0.581 | r |
| 75-71-8   | Dichlorodifluoromethane       | 9.59  |   | 0.202 | 0.202 | r |
| 74-87-3   | Chloromethane                 | 7.08  |   | 0.485 | 0.485 | r |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane | 9.15  |   | 0.143 | 0.143 | r |
| 75-01-4   | Vinyl Chloride                | 9.07  |   | 0.078 | 0.078 | r |
| 106-99-0  | 1,3-Butadiene                 | 9.49  |   | 0.452 | 0.452 | r |
| 74-83-9   | Bromomethane                  | 9.45  |   | 0.258 | 0.258 | r |
| 75-00-3   | Chloroethane                  | 9.16  |   | 0.379 | 0.379 | r |
| 64-17-5   | Ethanol                       | 7.84  |   | 0.531 | 0.531 | r |
| 67-64-1   | Acetone                       | 10.4  |   | 0.421 | 0.421 | r |
| 75-69-4   | Trichlorofluoromethane        | 8.91  |   | 0.178 | 0.178 | r |
| 67-63-0   | Isopropylalcohol              | 9.49  |   | 0.407 | 0.407 | r |
| 107-13-1  | Acrylonitrile                 | 9.49  |   | 0.461 | 0.461 | r |
| 75-35-4   | 1,1-Dichloroethene            | 9.64  |   | 0.051 | 0.051 | r |
| 75-09-2   | Methylene Chloride            | 10.1  |   | 0.864 | 0.864 | r |
| 75-15-0   | Carbon Disulfide              | 10.1  |   | 0.321 | 0.321 | r |
| 76-13-1   | Trichlorotrifluoroethane      | 9.61  |   | 0.131 | 0.131 | r |
| 156-60-5  | Trans-1,2-Dichloroethene      | 9.83  |   | 0.252 | 0.252 | r |
| 75-34-3   | 1,1-Dichloroethane            | 10.4  |   | 0.247 | 0.247 | r |
| 1634-04-4 | Methyl tert-butyl ether(MTBE) | 9.80  |   | 0.278 | 0.278 | r |
| 78-93-3   | Methyl Ethyl Ketone           | 13.5  |   | 0.339 | 0.339 | r |
| 156-59-2  | Cis-1,2-Dichloroethene        | 11.3  |   | 0.051 | 0.051 | r |
| 110-54-3  | Hexane                        | 11.3  |   | 0.284 | 0.284 | r |
| 67-66-3   | Chloroform                    | 10.7  |   | 0.205 | 0.205 | r |
| 141-78-6  | Ethyl acetate                 | 11.0  |   | 0.278 | 0.278 | r |
| 109-99-9  | Tetrahydrofuran               | 10.4  |   | 0.339 | 0.339 | r |
| 107-06-2  | 1,2-Dichloroethane            | 10.6  |   | 0.247 | 0.247 | r |
| 71-55-6   | 1,1,1-Trichloroethane         | 9.81  |   | 0.183 | 0.183 | r |
| 71-43-2   | Benzene                       | 10.3  |   | 0.313 | 0.313 | r |
| 56-23-5   | Carbon Tetrachloride          | 10.3  |   | 0.032 | 0.032 | r |
| 110-82-7  | Cyclohexane                   | 10.9  |   | 0.291 | 0.291 | r |
| 78-87-5   | 1,2-dichloropropane           | 11.2  |   | 0.217 | 0.217 | r |
| 75-27-4   | Bromodichloromethane          | 10.4  |   | 0.149 | 0.149 | r |
| 79-01-6   | Trichloroethene               | 10.6  |   | 0.037 | 0.037 | r |
| 123-91-1  | 1,4-Dioxane                   | 11.1  |   | 0.278 | 0.278 | r |
| 142-82-5  | Heptane                       | 10.6  |   | 0.244 | 0.244 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

|              |                 |                  |                          |                 |
|--------------|-----------------|------------------|--------------------------|-----------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> | CE81147 LCS     |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CE81147 LCS</u>       |                 |
| Canister:    | <u>LCS</u>      | Lab File ID:     | <u>1206_04.D</u>         |                 |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u>RTX-VMS</u>           | Date Received:  |
|              |                 |                  |                          | <u>12/05/19</u> |
| Purge Volume | <u>200</u>      | (cc)             | Date Analyzed:           | <u>12/06/19</u> |
| Matrix:      | <u>AIR</u>      | Dilution Factor: | <u>1</u>                 |                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                   | CONC. | Q | MDL   | PQL   | R |
|-------------|----------------------------|-------|---|-------|-------|---|
| 10061-01-5  | cis-1,3-Dichloropropene    | 11.1  |   | 0.220 | 0.220 | r |
| 108-10-1    | 4-Methyl-2-pentanone(MIBK) | 10.7  |   | 0.244 | 0.244 | r |
| 10061-02-6  | trans-1,3-Dichloropropene  | 10.2  |   | 0.220 | 0.220 | r |
| 79-00-5     | 1,1,2-Trichloroethane      | 10.1  |   | 0.183 | 0.183 | r |
| 108-88-3    | Toluene                    | 11.4  |   | 0.266 | 0.266 | r |
| 124-48-1    | Dibromochloromethane       | 10.3  |   | 0.117 | 0.117 | r |
| 591-78-6    | 2-Hexanone(MBK)            | 11.7  |   | 0.244 | 0.244 | r |
| 106-93-4    | 1,2-Dibromoethane(EDB)     | 10.7  |   | 0.130 | 0.130 | r |
| 127-18-4    | Tetrachloroethene          | 10.4  |   | 0.037 | 0.037 | r |
| 630-20-6    | 1,1,1,2-Tetrachloroethane  | 9.17  |   | 0.146 | 0.146 | r |
| 108-90-7    | Chlorobenzene              | 10.1  |   | 0.217 | 0.217 | r |
| 100-41-4    | Ethylbenzene               | 10.2  |   | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene                 | 21.7  |   | 0.230 | 0.230 | r |
| 75-25-2     | Bromoform                  | 9.42  |   | 0.097 | 0.097 | r |
| 100-42-5    | Styrene                    | 10.3  |   | 0.235 | 0.235 | r |
| 79-34-5     | 1,1,2,2-Tetrachloroethane  | 9.84  |   | 0.146 | 0.146 | r |
| 95-47-6     | o-Xylene                   | 11.4  |   | 0.230 | 0.230 | r |
| 98-82-8     | Isopropylbenzene           | 11.0  |   | 0.204 | 0.204 | r |
| 622-96-8    | 4-Ethyltoluene             | 10.1  |   | 0.204 | 0.204 | r |
| 108-67-8    | 1,3,5-Trimethylbenzene     | 10.8  |   | 0.204 | 0.204 | r |
| 95-63-6     | 1,2,4-Trimethylbenzene     | 11.0  |   | 0.204 | 0.204 | r |
| 100-44-7    | Benzyl chloride            | 10.4  |   | 0.193 | 0.193 | r |
| 541-73-1    | 1,3-Dichlorobenzene        | 9.81  |   | 0.166 | 0.166 | r |
| 106-46-7    | 1,4-Dichlorobenzene        | 10.7  |   | 0.166 | 0.166 | r |
| 135-98-8    | sec-Butylbenzene           | 10.5  |   | 0.182 | 0.182 | r |
| 99-87-6     | 4-Isopropyltoluene         | 10.9  |   | 0.182 | 0.182 | r |
| 95-50-1     | 1,2-Dichlorobenzene        | 10.7  |   | 0.166 | 0.166 | r |
| 104-51-8    | n-Butylbenzene             | 10.6  |   | 0.182 | 0.182 | r |
| 120-82-1    | 1,2,4-Trichlorobenzene     | 8.00  |   | 0.135 | 0.135 | r |
| 87-68-3     | Hexachlorobutadiene        | 8.26  |   | 0.094 | 0.094 | r |
|             |                            |       |   |       |       |   |
|             |                            |       |   |       |       |   |
|             |                            |       |   |       |       |   |
|             |                            |       |   |       |       |   |
|             |                            |       |   |       |       |   |
|             |                            |       |   |       |       |   |
|             |                            |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_04.D  
 Acq On : 6 Dec 2019 5:03 pm  
 Operator : Keith  
 Client ID : CE81147 LCS  
 Lab ID : CE81147 LCS  
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 09 08:30:55 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.511  | 130  | 307923   | 10.000 | ng    | -0.02    |
| 36) 1,4-Difluorobenzene      | 7.429  | 114  | 860831   | 10.000 | ng    | -0.01    |
| 53) Chlorobenzene-d5         | 10.988 | 82   | 520003   | 10.000 | ng    | -0.01    |
| 80) Bromochloromethane(sim)  | 5.514  | 130  | 321222   | 10.000 | ng    | #-0.02   |
| 94) 1,4-Difluorobenzene(sim) | 7.425  | 114  | 953222   | 10.000 | ng    | #-0.02   |
| 104) Chlorobenzene-d5(sim)   | 10.991 | 82   | 554549   | 10.000 | ng    | -0.01    |

|                             |        |       |          |          |           |       |
|-----------------------------|--------|-------|----------|----------|-----------|-------|
| System Monitoring Compounds |        |       |          |          |           |       |
| 62) % Bromofluorobenzene    | 12.464 | 95    | 817610   | 10.425   | ppbv      | -0.01 |
| Spiked Amount               | 10.000 | Range | 70 - 130 | Recovery | = 104.20% |       |

| Target Compounds              | R.T.   | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|--------|------|----------|--------|-------|--------|
| 2) Propylene                  | 1.471  | 41   | 337353   | 11.817 | ppbv# | 70     |
| 3) Dichlorodifluoromethane    | 1.506  | 101  | 124722   | 9.591  | ppbv# | 68     |
| 4) Chloromethane              | 1.649  | 50   | 173522   | 7.083  | ppbv  | 79     |
| 5) 1,2-Dichlorotetrafluor...  | 1.615  | 135  | 658765   | 9.145  | ppbv  | 89     |
| 6) Vinyl Chloride             | 1.725  | 62   | 263375   | 9.067  | ppbv  | 94     |
| 7) 1,3-Butadiene              | 1.745  | 54   | 163973   | 9.491  | ppbv# | 44     |
| 8) Bromomethane               | 1.978  | 94   | 403778   | 9.449  | ppbv# | 67     |
| 9) Chloroethane               | 2.095  | 64   | 135204   | 9.155  | ppbv# | 56     |
| 10) Ethanol                   | 2.704  | 45   | 59879    | 7.838  | ppbv# | 71     |
| 12) Acetone                   | 3.368  | 43   | 515325   | 10.370 | ppbv  | 99     |
| 13) Trichlorofluoromethane    | 2.225  | 101  | 887726   | 8.909  | ppbv# | 88     |
| 14) Isopropylalcohol          | 3.333  | 45   | 404287   | 9.489  | ppbv# | 1      |
| 15) Acrylonitrile             | 4.375  | 53   | 136432   | 9.493  | ppbv# | 82     |
| 16) 1,1-Dichloroethene        | 2.684  | 61   | 485993   | 9.644  | ppbv# | 79     |
| 17) Methylene Chloride        | 3.299  | 49   | 320759   | 10.058 | ppbv  | 95     |
| 20) Carbon Disulfide          | 2.684  | 76   | 877134   | 10.124 | ppbv  | 100    |
| 21) Trichlorotrifluoroethane  | 2.745  | 101  | 659032   | 9.612  | ppbv# | 86     |
| 22) Trans-1,2-Dichloroethene  | 3.498  | 61   | 399072   | 9.829  | ppbv  | 97     |
| 23) 1,1-Dichloroethane        | 4.312  | 63   | 556206   | 10.435 | ppbv  | 100    |
| 24) Methyl tert-butyl ethe... | 3.689  | 73   | 678560   | 9.801  | ppbv# | 58     |
| 25) Methyl Ethyl Ketone       | 6.167  | 43   | 531479   | 13.520 | ppbv# | 61     |
| 26) Cis-1,2-Dichloroethene    | 5.201  | 61   | 476633   | 11.259 | ppbv# | 64     |
| 27) Hexane                    | 3.634  | 57   | 440583   | 11.328 | ppbv# | 88     |
| 28) Chloroform                | 5.705  | 83   | 749794   | 10.683 | ppbv  | 81     |
| 29) Ethyl acetate             | 5.979  | 43   | 517350   | 10.948 | ppbv  | 100    |
| 30) Tetrahydrofuran           | 5.900  | 42   | 193611   | 10.373 | ppbv# | 31     |
| 31) 1,2-Dichloroethane        | 6.785  | 62   | 541380   | 10.563 | ppbv# | 84     |
| 32) 1,1,1-Trichloroethane     | 5.943  | 97   | 702486   | 9.805  | ppbv# | 76     |
| 33) Benzene                   | 6.498  | 78   | 726504   | 10.313 | ppbv# | 81     |
| 34) Carbon Tetrachloride      | 5.842  | 117  | 841191   | 10.252 | ppbv  | 94     |
| 35) Cyclohexane               | 5.496  | 56   | 358195   | 10.851 | ppbv# | 22     |
| 37) 1,2-dichloropropane       | 7.997  | 63   | 322260   | 11.216 | ppbv# | 58     |
| 38) Bromodichloromethane      | 8.134  | 83   | 823851   | 10.431 | ppbv  | 83     |
| 39) Trichloroethene           | 7.347  | 130  | 467961   | 10.644 | ppbv  | 90     |
| 41) 1,4-Dioxane               | 8.399  | 88   | 193998   | 11.079 | ppbv# | 65     |
| 43) Heptane                   | 6.593  | 43   | 367748   | 10.564 | ppbv# | 19     |
| 44) cis-1,3-Dichloropropene   | 8.933  | 75   | 599896   | 11.145 | ppbv  | 92     |
| 45) 4-Methyl-2-pentanone(M... | 9.713  | 43   | 551646   | 10.651 | ppbv# | 72     |
| 46) trans-1,3-Dichloropropene | 9.742  | 75   | 479302   | 10.158 | ppbv# | 89     |
| 47) 1,1,2-Trichloroethane     | 9.922  | 97   | 392389   | 10.117 | ppbv  | 91     |
| 48) Toluene                   | 9.207  | 91   | 1027738  | 11.364 | ppbv  | 94     |
| 49) Dibromochloromethane      | 10.117 | 129  | 903451   | 10.249 | ppbv# | 92     |
| 50) 2-Hexanone(MBK)           | 10.720 | 43   | 668962   | 11.710 | ppbv# | 88     |
| 51) 1,2-Dibromoethane(EDB)    | 10.348 | 107  | 729020   | 10.656 | ppbv  | 95     |

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_04.D  
 Acq On : 6 Dec 2019 5:03 pm  
 Operator : Keith  
 Client ID : CE81147 LCS  
 Lab ID : CE81147 LCS  
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 09 08:30:55 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

| Compound                        | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|--------|------|----------|--------|-------|----------|
| 52) Tetrachloroethene           | 9.669  | 166  | 641894   | 10.367 | ppbv  | 91       |
| 54) 1,1,1,2-Tetrachloroethane   | 11.111 | 131  | 430123   | 9.173  | ppbv# | 89       |
| 55) Chlorobenzene               | 11.008 | 112  | 791168   | 10.142 | ppbv# | 1        |
| 56) Ethylbenzene                | 11.084 | 91   | 1188408  | 10.148 | ppbv  | 93       |
| 57) m,p-Xylene                  | 11.269 | 91   | 1873765  | 21.739 | ppbv  | 95       |
| 58) Bromoform                   | 11.825 | 173  | 779270   | 9.420  | ppbv  | 90       |
| 59) Styrene                     | 11.832 | 104  | 674389   | 10.317 | ppbv# | 72       |
| 60) 1,1,2,2-Tetrachloroethane   | 12.756 | 83   | 828191   | 9.839  | ppbv  | 97       |
| 61) o-Xylene                    | 11.763 | 91   | 1157734  | 11.408 | ppbv# | 92       |
| 64) Isopropylbenzene            | 12.159 | 105  | 1367094  | 10.947 | ppbv# | 91       |
| 66) 4-Ethyltoluene              | 12.802 | 105  | 1264231  | 10.129 | ppbv# | 96       |
| 67) 1,3,5-Trimethylbenzene      | 12.918 | 105  | 1147829  | 10.786 | ppbv# | 88       |
| 68) 1,2,4-Trimethylbenzene      | 13.373 | 105  | 1128117  | 10.974 | ppbv# | 94       |
| 70) Benzyl chloride             | 14.015 | 91   | 939785   | 10.413 | ppbv# | 64       |
| 71) 1,3-Dichlorobenzene         | 13.678 | 146  | 758046   | 9.812  | ppbv  | 98       |
| 72) 1,4-Dichlorobenzene         | 13.775 | 146  | 816739   | 10.732 | ppbv# | 90       |
| 73) sec-Butylbenzene            | 13.496 | 105  | 1476364  | 10.458 | ppbv  | 96       |
| 74) 4-Isopropyltoluene          | 13.665 | 119  | 1243354  | 10.856 | ppbv# | 91       |
| 75) 1,2-Dichlorobenzene         | 14.151 | 146  | 748792   | 10.686 | ppbv  | 88       |
| 76) n-Butylbenzene              | 14.061 | 91   | 983325   | 10.623 | ppbv# | 91       |
| 77) 1,2,4-Trichlorobenzene      | 15.314 | 180  | 320043   | 7.998  | ppbv# | 91       |
| 79) Hexachlorobutadiene         | 15.314 | 225  | 517824   | 8.262  | ppbv  | 100      |
| 81) 1,2-Dichlorotetrafluor...   | 1.615  | 135  | 658621   | 8.177  | ppbv  | 89       |
| 82) Vinyl Chloride(sim)         | 1.721  | 62   | 283673   | 8.429  | ppbv  | 99       |
| 83) Bromomethane(sim)           | 1.978  | 94   | 403778   | 8.233  | ppbv# | 69       |
| 84) Trichlorofluoromethane...   | 2.221  | 101  | 889805   | 7.107  | ppbv  | 96       |
| 85) 1,1,1-Trichloroethane(...)  | 5.943  | 97   | 702486   | 9.184  | ppbv# | 82       |
| 86) Carbon Tetrachloride(sim)   | 5.845  | 117  | 854250   | 9.842  | ppbv  | 98       |
| 87) 1,1-Dichloroethene(sim)     | 2.684  | 61   | 485993   | 8.528  | ppbv# | 69       |
| 88) Trichlorotrifluoroetha...   | 2.748  | 101  | 664864   | 10.314 | ppbv  | 99       |
| 89) Trans-1,2-Dichloroethe...   | 3.498  | 61   | 399072   | 9.334  | ppbv# | 87       |
| 90) 1,1-Dichloroethane(sim)     | 4.315  | 63   | 598997   | 9.970  | ppbv  | 97       |
| 91) Cis-1,2-Dichloroethene...   | 5.201  | 61   | 476633   | 11.973 | ppbv# | 64       |
| 92) Chloroform(sim)             | 5.701  | 83   | 785057   | 10.436 | ppbv  | 99       |
| 93) 1,2-Dichloroethane(sim)     | 6.785  | 62   | 541380   | 10.574 | ppbv# | 54       |
| 95) 1,2-dichloropropane(sim)    | 7.997  | 63   | 322260   | 11.815 | ppbv# | 79       |
| 96) Bromodichloromethane(sim)   | 8.137  | 83   | 848184   | 10.214 | ppbv  | 98       |
| 97) Trichloroethene(sim)        | 7.347  | 130  | 467961   | 11.212 | ppbv# | 87       |
| 98) 1,4-Dioxane(sim)            | 8.395  | 88   | 211562   | 8.373  | ppbv  | 97       |
| 99) cis-1,3-Dichloropropen...   | 8.933  | 75   | 599896   | 13.410 | ppbv  | 92       |
| 100) 1,1,1-Trichloroethane(...) | 9.918  | 97   | 422080   | 10.016 | ppbv  | 94       |
| 101) Dibromochloromethane(sim)  | 10.117 | 129  | 901560   | 10.378 | ppbv  | 94       |
| 102) 1,2-Dibromoethane(EDB)...  | 10.344 | 107  | 758259   | 10.534 | ppbv  | 94       |
| 103) Tetrachloroethene(sim)     | 9.669  | 166  | 641894   | 11.266 | ppbv  | 77       |
| 105) Bromoform(sim)             | 11.825 | 173  | 778629   | 9.649  | ppbv# | 2        |
| 106) 1,1,1,2-Tetrachloroeth...  | 11.114 | 131  | 453928   | 9.010  | ppbv  | 98       |
| 107) m,p-Xylene(sim)            | 11.269 | 91   | 1874311  | 17.217 | ppbv  | 95       |
| 108) 1,1,2,2-Tetrachloroeth...  | 12.759 | 83   | 866865   | 9.361  | ppbv  | 100      |
| 111) Benzyl chloride(sim)       | 14.015 | 91   | 939785   | 7.997  | ppbv  | 64       |
| 112) 1,3-Dichlorobenzene(sim)   | 13.681 | 146  | 811631   | 9.620  | ppbv  | 98       |
| 113) 1,4-Dichlorobenzene(sim)   | 13.775 | 146  | 816166   | 8.524  | ppbv  | 90       |
| 114) sec-Butylbenzene(sim)      | 13.492 | 105  | 1556908  | 8.132  | ppbv  | 95       |
| 115) 4-Isopropyltoluene(sim)    | 13.665 | 119  | 1243354  | 7.821  | ppbv# | 91       |
| 116) 1,2-Dichlorobenzene(sim)   | 14.148 | 146  | 784943   | 8.663  | ppbv  | 97       |
| 117) n-Butylbenzene(sim)        | 14.061 | 91   | 983325   | 7.674  | ppbv  | 91       |
| 118) 1,2,4-Trichlorobenzene...  | 15.312 | 180  | 332077   | 6.814  | ppbv# | 74       |
| 119) Hexachlorobutadiene(sim)   | 15.314 | 225  | 516945   | 7.743  | ppbv# | 90       |

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
Data File : 1206\_04.D  
Acq On : 6 Dec 2019 5:03 pm  
Operator : Keith  
Client ID : CE81147 LCS  
Lab ID : CE81147 LCS  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 09 08:30:55 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Wed Dec 04 08:59:27 2019  
Response via : Initial Calibration

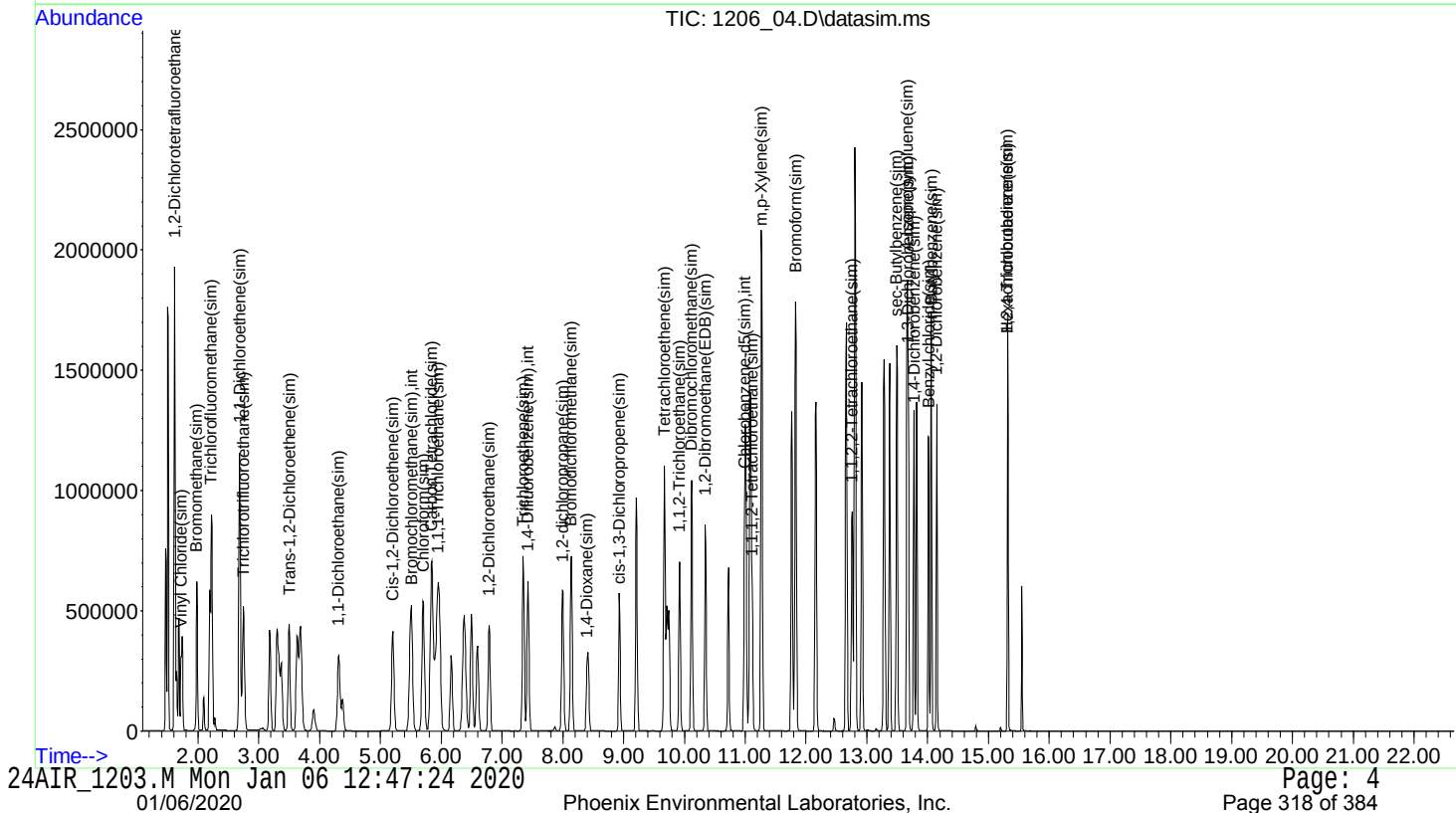
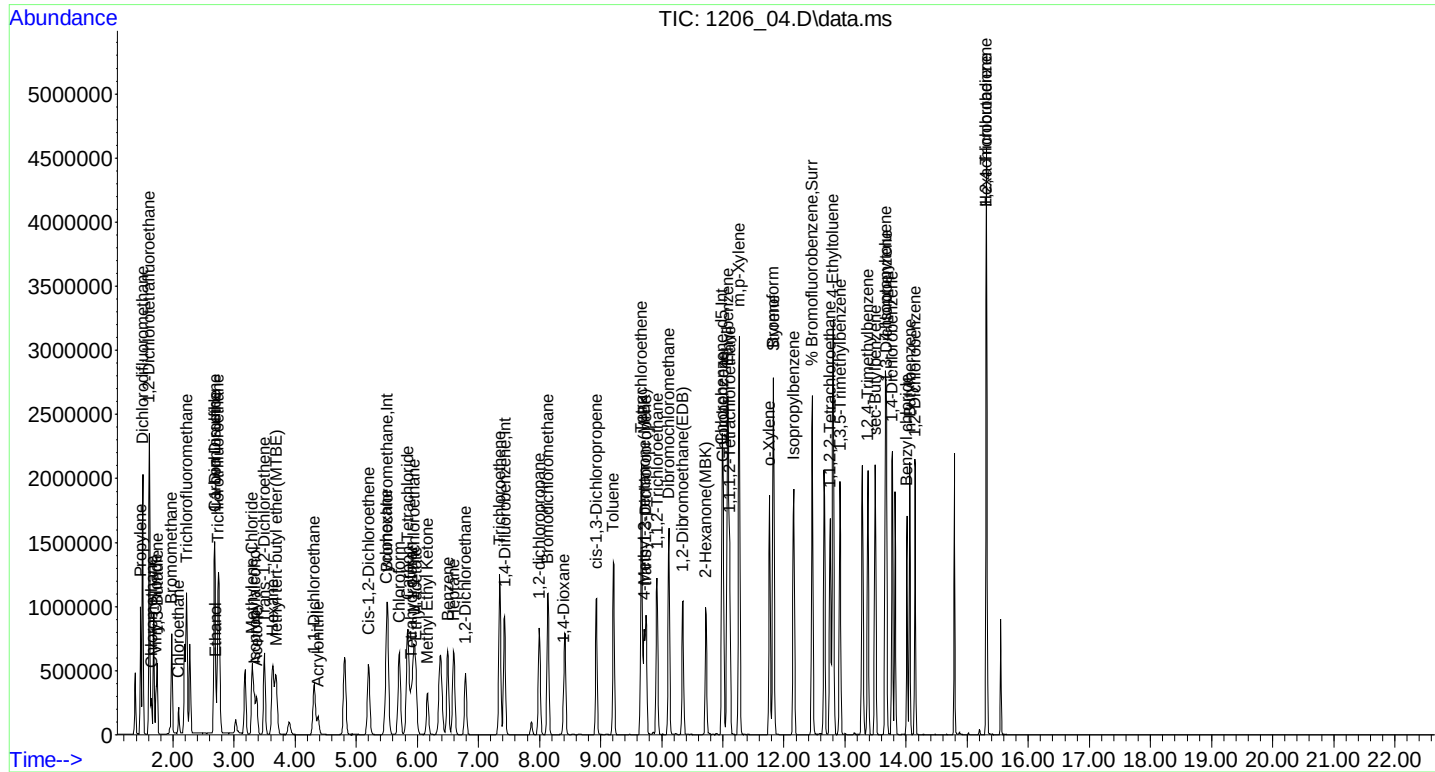
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

```
Data Path : H:\AIR2019\CHEM24\12DEC\03B\
Data File : 1206_04.D
Acq On : 6 Dec 2019 5:03 pm
Operator : Keith
Client ID : CE81147 LCS
Lab ID : CE81147 LCS
ALS Vial : 100 Sample Multiplier: 1
```

Quant Time: Dec 09 08:30:55 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Wed Dec 04 08:59:27 2019  
Response via : Initial Calibration





1  
AIR ANALYSIS DATA SHEET

CLIENT ID

|              |                 |                  |                          |                                |
|--------------|-----------------|------------------|--------------------------|--------------------------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> | CE81147 BLANK                  |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CE81147 BL</u>        |                                |
| Canister:    | <u>BL</u>       | Lab File ID:     | <u>1206_06.D</u>         |                                |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u>RTX-VMS</u>           | Date Received: <u>12/05/19</u> |
| Purge Volume | <u>200</u> (cc) | Date Analyzed:   | <u>12/06/19</u>          |                                |
| Matrix:      | <u>AIR</u>      | Dilution Factor: | <u>1</u>                 |                                |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                           | CONC. | Q | MDL   | PQL   | R |
|------------|------------------------------------|-------|---|-------|-------|---|
| 115-07-1   | Propylene                          | 0.580 | U | 0.580 | 0.580 | r |
| 75-71-8    | Dichlorodifluoromethane            | 0.200 | U | 0.200 | 0.200 | r |
| 74-87-3    | Chloromethane                      | 0.480 | U | 0.480 | 0.480 | r |
| 106-99-0   | 1,3-Butadiene                      | 0.450 | U | 0.450 | 0.450 | r |
| 75-00-3    | Chloroethane                       | 0.380 | U | 0.380 | 0.380 | r |
| 64-17-5    | Ethanol                            | 0.530 | U | 0.530 | 0.530 | r |
| 67-64-1    | Acetone                            | 0.420 | U | 0.420 | 0.420 | r |
| 67-63-0    | Isopropylalcohol                   | 0.410 | U | 0.410 | 0.410 | r |
| 107-13-1   | Acrylonitrile                      | 0.460 | U | 0.460 | 0.460 | r |
| 75-09-2    | Methylene Chloride                 | 0.860 | U | 0.860 | 0.860 | r |
| 75-15-0    | Carbon Disulfide                   | 0.320 | U | 0.320 | 0.320 | r |
| 1634-04-4  | Methyl tert-butyl ether(MTBE)      | 0.280 | U | 0.280 | 0.280 | r |
| 78-93-3    | Methyl Ethyl Ketone                | 0.340 | U | 0.340 | 0.340 | r |
| 110-54-3   | Hexane                             | 0.280 | U | 0.280 | 0.280 | r |
| 141-78-6   | Ethyl acetate                      | 0.280 | U | 0.280 | 0.280 | r |
| 109-99-9   | Tetrahydrofuran                    | 0.340 | U | 0.340 | 0.340 | r |
| 71-43-2    | Benzene                            | 0.310 | U | 0.310 | 0.310 | r |
| 110-82-7   | Cyclohexane                        | 0.290 | U | 0.290 | 0.290 | r |
| 142-82-5   | Heptane                            | 0.240 | U | 0.240 | 0.240 | r |
| 108-10-1   | 4-Methyl-2-pentanone(MIBK)         | 0.240 | U | 0.240 | 0.240 | r |
| 10061-02-6 | trans-1,3-Dichloropropene          | 0.220 | U | 0.220 | 0.220 | r |
| 108-88-3   | Toluene                            | 0.270 | U | 0.270 | 0.270 | r |
| 591-78-6   | 2-Hexanone(MBK)                    | 0.240 | U | 0.240 | 0.240 | r |
| 108-90-7   | Chlorobenzene                      | 0.220 | U | 0.220 | 0.220 | r |
| 100-41-4   | Ethylbenzene                       | 0.230 | U | 0.230 | 0.230 | r |
| 100-42-5   | Styrene                            | 0.230 | U | 0.230 | 0.230 | r |
| 95-47-6    | o-Xylene                           | 0.230 | U | 0.230 | 0.230 | r |
| 98-82-8    | Isopropylbenzene                   | 0.200 | U | 0.200 | 0.200 | r |
| 622-96-8   | 4-Ethyltoluene                     | 0.200 | U | 0.200 | 0.200 | r |
| 108-67-8   | 1,3,5-Trimethylbenzene             | 0.200 | U | 0.200 | 0.200 | r |
| 95-63-6    | 1,2,4-Trimethylbenzene             | 0.200 | U | 0.200 | 0.200 | r |
| 76-14-2    | 1,2-Dichlorotetrafluoroethane(sim) | 0.140 | U | 0.140 | 0.140 | r |
| 75-01-4    | Vinyl Chloride(sim)                | 0.078 | U | 0.078 | 0.078 | r |
| 74-83-9    | Bromomethane(sim)                  | 0.260 | U | 0.260 | 0.260 | r |
| 75-69-4    | Trichlorofluoromethane(sim)        | 0.180 | U | 0.180 | 0.180 | r |
| 71-55-6    | 1,1,1-Trichloroethane(sim)         | 0.180 | U | 0.180 | 0.180 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

|              |                 |                  |                          |
|--------------|-----------------|------------------|--------------------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CE81147 BL</u>        |
| Canister:    | <u>BL</u>       | Lab File ID:     | <u>1206_06.D</u>         |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u>RTX-VMS</u>           |
|              |                 | Date Received:   | <u>12/05/19</u>          |
| Purge Volume | <u>200</u> (cc) | Date Analyzed:   | <u>12/06/19</u>          |
| Matrix:      | <u>AIR</u>      | Dilution Factor: | <u>1</u>                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|-------------|--------------------------------|-------|---|-------|-------|---|
| 56-23-5     | Carbon Tetrachloride(sim)      | 0.032 | U | 0.032 | 0.032 | r |
| 75-35-4     | 1,1-Dichloroethene(sim)        | 0.050 | U | 0.050 | 0.050 | r |
| 76-13-1     | Trichlorotrifluoroethane(sim)  | 0.130 | U | 0.130 | 0.130 | r |
| 156-60-5    | Trans-1,2-Dichloroethene(sim)  | 0.250 | U | 0.250 | 0.250 | r |
| 75-34-3     | 1,1-Dichloroethane(sim)        | 0.250 | U | 0.250 | 0.250 | r |
| 156-59-2    | Cis-1,2-Dichloroethene(sim)    | 0.256 | U | 0.256 | 0.256 | r |
| 67-66-3     | Chloroform(sim)                | 0.200 | U | 0.200 | 0.200 | r |
| 107-06-2    | 1,2-Dichloroethane(sim)        | 0.250 | U | 0.250 | 0.250 | r |
| 78-87-5     | 1,2-dichloropropane(sim)       | 0.220 | U | 0.220 | 0.220 | r |
| 75-27-4     | Bromodichloromethane(sim)      | 0.150 | U | 0.150 | 0.150 | r |
| 79-01-6     | Trichloroethene(sim)           | 0.037 | U | 0.037 | 0.037 | r |
| 123-91-1    | 1,4-Dioxane(sim)               | 0.280 | U | 0.280 | 0.280 | r |
| 10061-01-5  | cis-1,3-Dichloropropene(sim)   | 0.220 | U | 0.220 | 0.220 | r |
| 79-00-5     | 1,1,2-Trichloroethane(sim)     | 0.180 | U | 0.180 | 0.180 | r |
| 124-48-1    | Dibromochloromethane(sim)      | 0.120 | U | 0.120 | 0.120 | r |
| 106-93-4    | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 127-18-4    | Tetrachloroethene(sim)         | 0.037 | U | 0.037 | 0.037 | r |
| 75-25-2     | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6    | 1,1,1,2-Tetrachloroethane(sim) | 0.150 | U | 0.150 | 0.150 | r |
| 179601-23-1 | m,p-Xylene(sim)                | 0.230 | U | 0.230 | 0.230 | r |
| 79-34-5     | 1,1,2,2-Tetrachloroethane(sim) | 0.150 | U | 0.150 | 0.150 | r |
| 100-44-7    | Benzyl chloride(sim)           | 0.190 | U | 0.190 | 0.190 | r |
| 541-73-1    | 1,3-Dichlorobenzene(sim)       | 0.170 | U | 0.170 | 0.170 | r |
| 106-46-7    | 1,4-Dichlorobenzene(sim)       | 0.170 | U | 0.170 | 0.170 | r |
| 135-98-8    | sec-Butylbenzene(sim)          | 0.180 | U | 0.180 | 0.180 | r |
| 99-87-6     | 4-Isopropyltoluene(sim)        | 0.180 | U | 0.180 | 0.180 | r |
| 95-50-1     | 1,2-Dichlorobenzene(sim)       | 0.170 | U | 0.170 | 0.170 | r |
| 104-51-8    | n-Butylbenzene(sim)            | 0.180 | U | 0.180 | 0.180 | r |
| 120-82-1    | 1,2,4-Trichlorobenzene(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 87-68-3     | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
Data File : 1206\_06.D  
Acq On : 6 Dec 2019 6:05 pm  
Operator : Keith  
Client ID : CE81147 BLANK  
Lab ID : CE81147 BLANK  
ALS Vial : 102 Sample Multiplier: 1

Quant Time: Dec 09 08:31:02 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Wed Dec 04 08:59:27 2019  
Response via : Initial Calibration

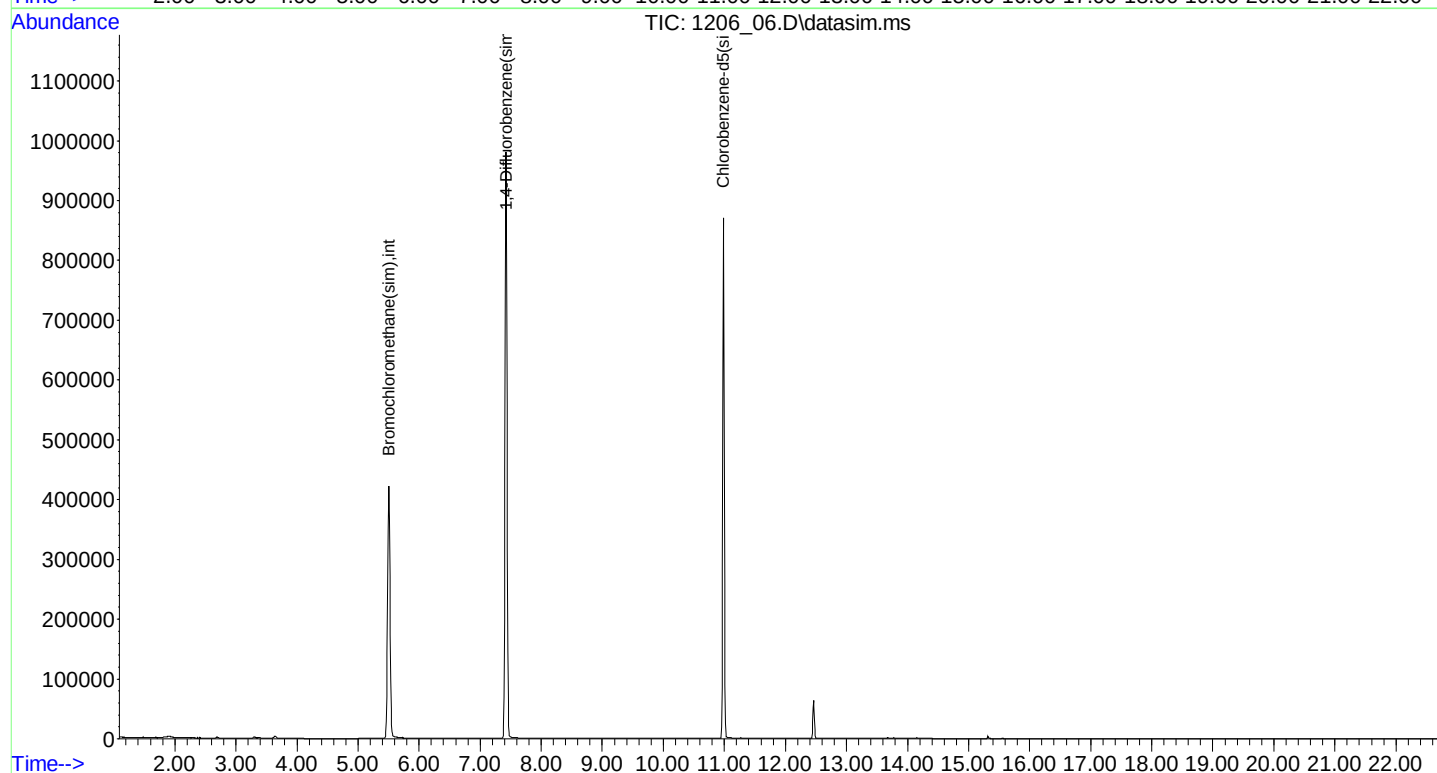
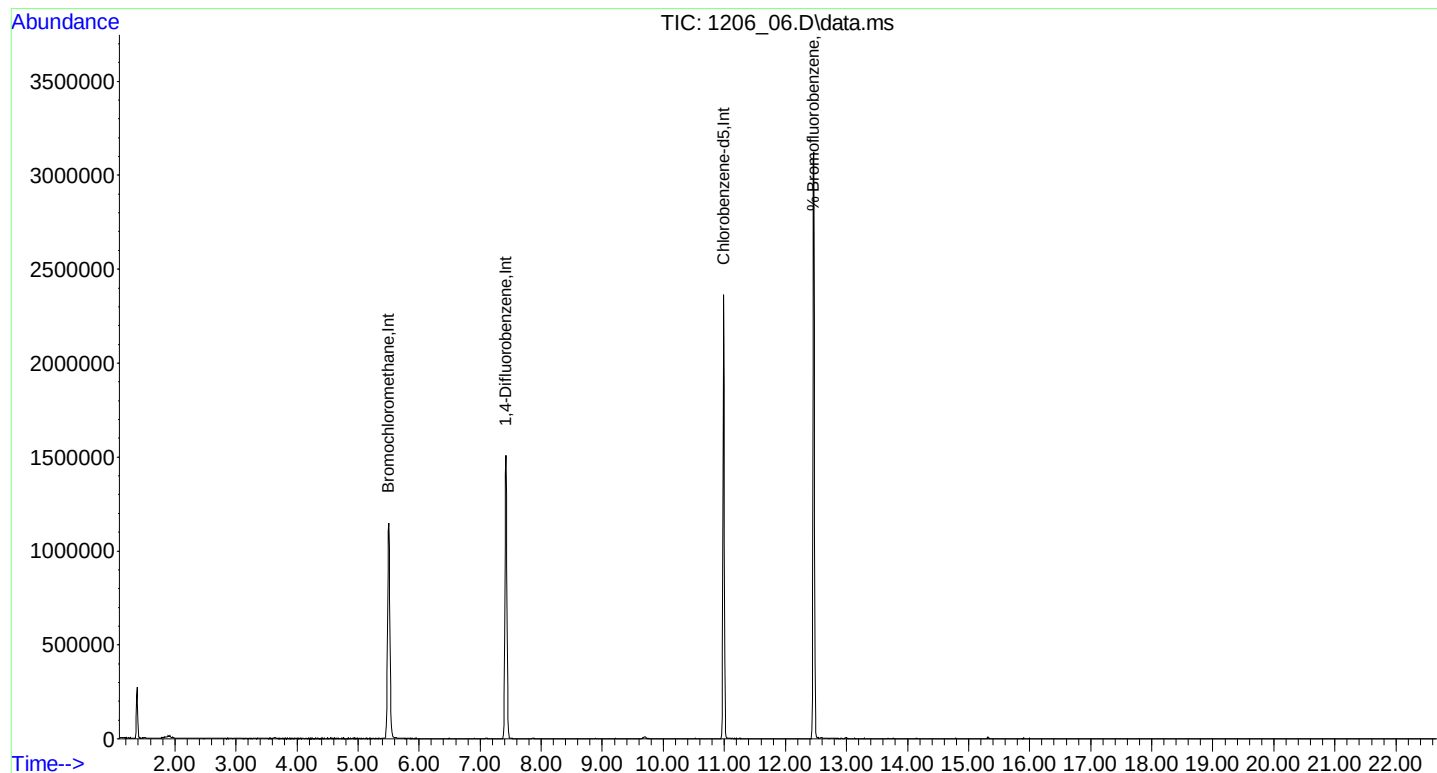
| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 5.504  | 130   | 609120   | 10.000   | ng    | -0.03    |
| 36) 1,4-Difluorobenzene      | 7.422  | 114   | 1423604  | 10.000   | ng    | -0.02    |
| 53) Chlorobenzene-d5         | 10.988 | 82    | 719237   | 10.000   | ng    | -0.01    |
| 80) Bromochloromethane(sim)  | 5.507  | 130   | 619636   | 10.000   | ng    | #-0.03   |
| 94) 1,4-Difluorobenzene(sim) | 7.425  | 114   | 1551867  | 10.000   | ng    | #-0.02   |
| 104) Chlorobenzene-d5(sim)   | 10.984 | 82    | 779664   | 10.000   | ng    | -0.02    |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 62) % Bromofluorobenzene     | 12.464 | 95    | 965588   | 8.901    | ppbv  | -0.01    |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 89.00%   |

| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
Data File : 1206\_06.D  
Acq On : 6 Dec 2019 6:05 pm  
Operator : Keith  
Client ID : CE81147 BLANK  
Lab ID : CE81147 BLANK  
ALS Vial : 102 Sample Multiplier: 1

Quant Time: Dec 09 08:31:02 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Last Update : Wed Dec 04 08:59:27 2019  
Response via : Initial Calibration



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

DRY CLEANER IA-3 DUP

Client: CEG Lab: Phoenix Env. Labs

SDG No.: GCE81145 Lab Sample ID: CE81147 DUP

Canister: 28583 Lab File ID: 1206\_09.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/05/19

Purge Volume 200 (cc) Date Analyzed: 12/06/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                           | CONC. | Q | MDL   | PQL   | R |
|------------|------------------------------------|-------|---|-------|-------|---|
| 115-07-1   | Propylene                          | 0.581 | U | 0.581 | 0.581 | r |
| 75-71-8    | Dichlorodifluoromethane            | 0.202 | U | 0.202 | 0.202 | r |
| 74-87-3    | Chloromethane                      | 0.775 |   | 0.485 | 0.485 | r |
| 106-99-0   | 1,3-Butadiene                      | 0.452 | U | 0.452 | 0.452 | r |
| 75-00-3    | Chloroethane                       | 0.379 | U | 0.379 | 0.379 | r |
| 64-17-5    | Ethanol                            | 48.1  | S | 0.531 | 0.531 | r |
| 67-64-1    | Acetone                            | 5.44  | S | 0.421 | 0.421 | r |
| 67-63-0    | Isopropylalcohol                   | 4.38  | S | 0.407 | 0.407 | r |
| 107-13-1   | Acrylonitrile                      | 0.461 | U | 0.461 | 0.461 | r |
| 75-09-2    | Methylene Chloride                 | 0.864 | U | 0.864 | 0.864 | r |
| 75-15-0    | Carbon Disulfide                   | 0.321 | U | 0.321 | 0.321 | r |
| 1634-04-4  | Methyl tert-butyl ether(MTBE)      | 0.278 | U | 0.278 | 0.278 | r |
| 78-93-3    | Methyl Ethyl Ketone                | 0.374 |   | 0.339 | 0.339 | r |
| 110-54-3   | Hexane                             | 0.573 | S | 0.284 | 0.284 | r |
| 141-78-6   | Ethyl acetate                      | 1.16  |   | 0.278 | 0.278 | r |
| 109-99-9   | Tetrahydrofuran                    | 0.339 | U | 0.339 | 0.339 | r |
| 71-43-2    | Benzene                            | 0.440 |   | 0.313 | 0.313 | r |
| 110-82-7   | Cyclohexane                        | 0.291 | U | 0.291 | 0.291 | r |
| 79-01-6    | Trichloroethene                    | 6.01  |   | 0.037 | 0.037 | r |
| 142-82-5   | Heptane                            | 0.273 |   | 0.244 | 0.244 | r |
| 108-10-1   | 4-Methyl-2-pentanone(MIBK)         | 0.244 | U | 0.244 | 0.244 | r |
| 10061-02-6 | trans-1,3-Dichloropropene          | 0.220 | U | 0.220 | 0.220 | r |
| 108-88-3   | Toluene                            | 1.15  |   | 0.266 | 0.266 | r |
| 591-78-6   | 2-Hexanone(MBK)                    | 0.244 | U | 0.244 | 0.244 | r |
| 127-18-4   | Tetrachloroethene                  | 0.990 |   | 0.037 | 0.037 | r |
| 108-90-7   | Chlorobenzene                      | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4   | Ethylbenzene                       | 0.230 | U | 0.230 | 0.230 | r |
| 100-42-5   | Styrene                            | 0.235 | U | 0.235 | 0.235 | r |
| 95-47-6    | o-Xylene                           | 0.230 | U | 0.230 | 0.230 | r |
| 98-82-8    | Isopropylbenzene                   | 0.204 | U | 0.204 | 0.204 | r |
| 622-96-8   | 4-Ethyltoluene                     | 0.245 |   | 0.204 | 0.204 | r |
| 108-67-8   | 1,3,5-Trimethylbenzene             | 0.204 | U | 0.204 | 0.204 | r |
| 95-63-6    | 1,2,4-Trimethylbenzene             | 0.252 |   | 0.204 | 0.204 | r |
| 76-14-2    | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U | 0.143 | 0.143 | r |
| 75-01-4    | Vinyl Chloride(sim)                | 0.078 | U | 0.078 | 0.078 | r |
| 74-83-9    | Bromomethane(sim)                  | 0.258 | U | 0.258 | 0.258 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

DRY CLEANER IA-3 DUP

Client: CEG Lab: Phoenix Env. Labs

SDG No.: GCE81145 Lab Sample ID: CE81147 DUP

Canister: 28583 Lab File ID: 1206\_09.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 12/05/19

Purge Volume 200 (cc) Date Analyzed: 12/06/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|-------------|--------------------------------|-------|---|-------|-------|---|
| 75-69-4     | Trichlorofluoromethane(sim)    | 0.178 | U | 0.178 | 0.178 | r |
| 71-55-6     | 1,1,1-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 56-23-5     | Carbon Tetrachloride(sim)      | 0.077 |   | 0.032 | 0.032 | r |
| 75-35-4     | 1,1-Dichloroethene(sim)        | 0.051 | U | 0.051 | 0.051 | r |
| 76-13-1     | Trichlorotrifluoroethane(sim)  | 0.131 | U | 0.131 | 0.131 | r |
| 156-60-5    | Trans-1,2-Dichloroethene(sim)  | 0.252 | U | 0.252 | 0.252 | r |
| 75-34-3     | 1,1-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 156-59-2    | Cis-1,2-Dichloroethene(sim)    | 0.051 | U | 0.051 | 0.051 | r |
| 67-66-3     | Chloroform(sim)                | 0.205 | U | 0.205 | 0.205 | r |
| 107-06-2    | 1,2-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 78-87-5     | 1,2-dichloropropane(sim)       | 0.217 | U | 0.217 | 0.217 | r |
| 75-27-4     | Bromodichloromethane(sim)      | 0.149 | U | 0.149 | 0.149 | r |
| 123-91-1    | 1,4-Dioxane(sim)               | 0.278 | U | 0.278 | 0.278 | r |
| 10061-01-5  | cis-1,3-Dichloropropene(sim)   | 0.220 | U | 0.220 | 0.220 | r |
| 79-00-5     | 1,1,2-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1    | Dibromochloromethane(sim)      | 0.117 | U | 0.117 | 0.117 | r |
| 106-93-4    | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2     | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6    | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 179601-23-1 | m,p-Xylene(sim)                | 0.306 |   | 0.230 | 0.230 | r |
| 79-34-5     | 1,1,2,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 100-44-7    | Benzyl chloride(sim)           | 0.193 | U | 0.193 | 0.193 | r |
| 541-73-1    | 1,3-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 106-46-7    | 1,4-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 135-98-8    | sec-Butylbenzene(sim)          | 0.182 | U | 0.182 | 0.182 | r |
| 99-87-6     | 4-Isopropyltoluene(sim)        | 0.182 | U | 0.182 | 0.182 | r |
| 95-50-1     | 1,2-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 104-51-8    | n-Butylbenzene(sim)            | 0.182 | U | 0.182 | 0.182 | r |
| 120-82-1    | 1,2,4-Trichlorobenzene(sim)    | 0.135 | U | 0.135 | 0.135 | r |
| 87-68-3     | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\03B\  
 Data File : 1206\_09.D  
 Acq On : 6 Dec 2019 7:58 pm  
 Operator : Keith  
 Client ID : DRY CLEANER IA-3 DUP  
 Lab ID : CE81147 DUP  
 ALS Vial : 105 Sample Multiplier: 1

Quant Time: Dec 09 09:02:21 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Wed Dec 04 08:59:27 2019  
 Response via : Initial Calibration

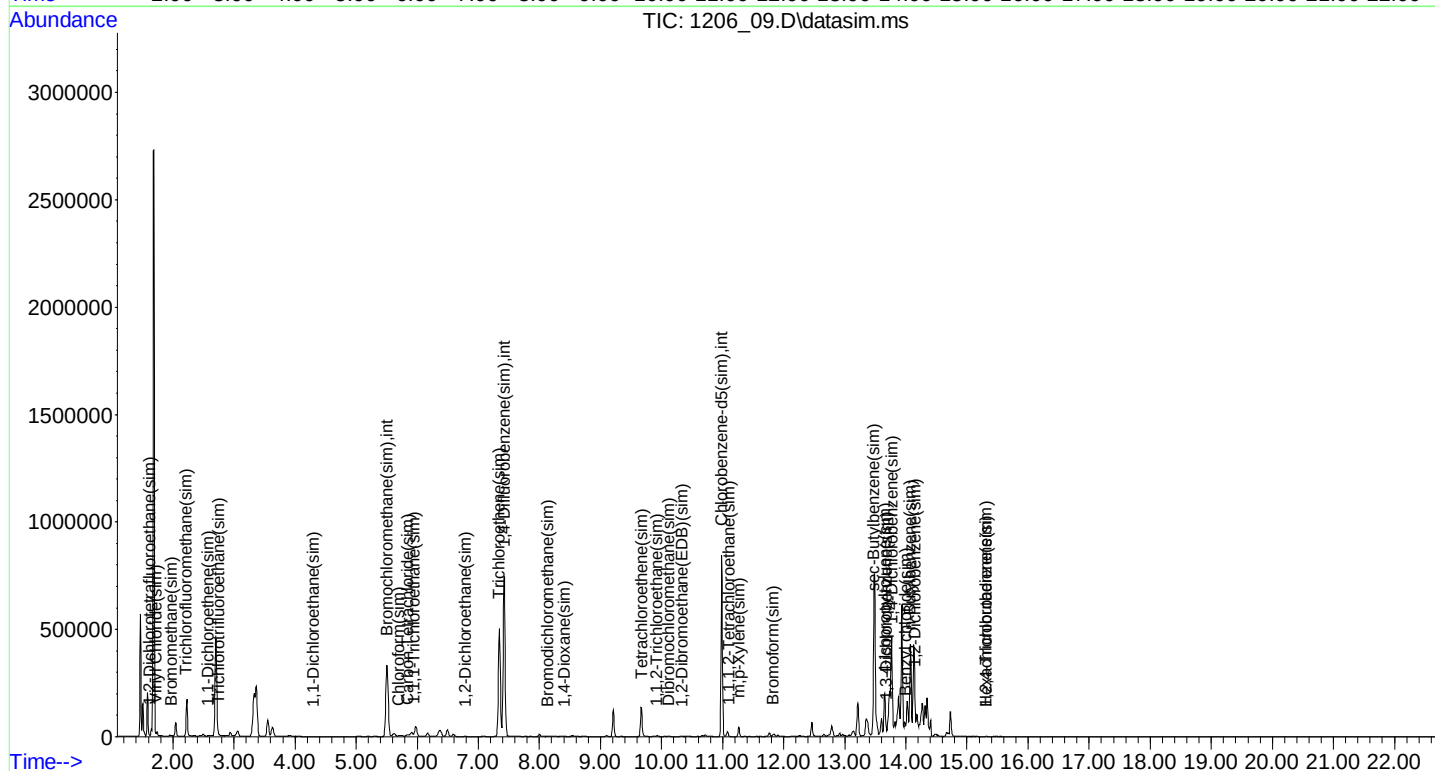
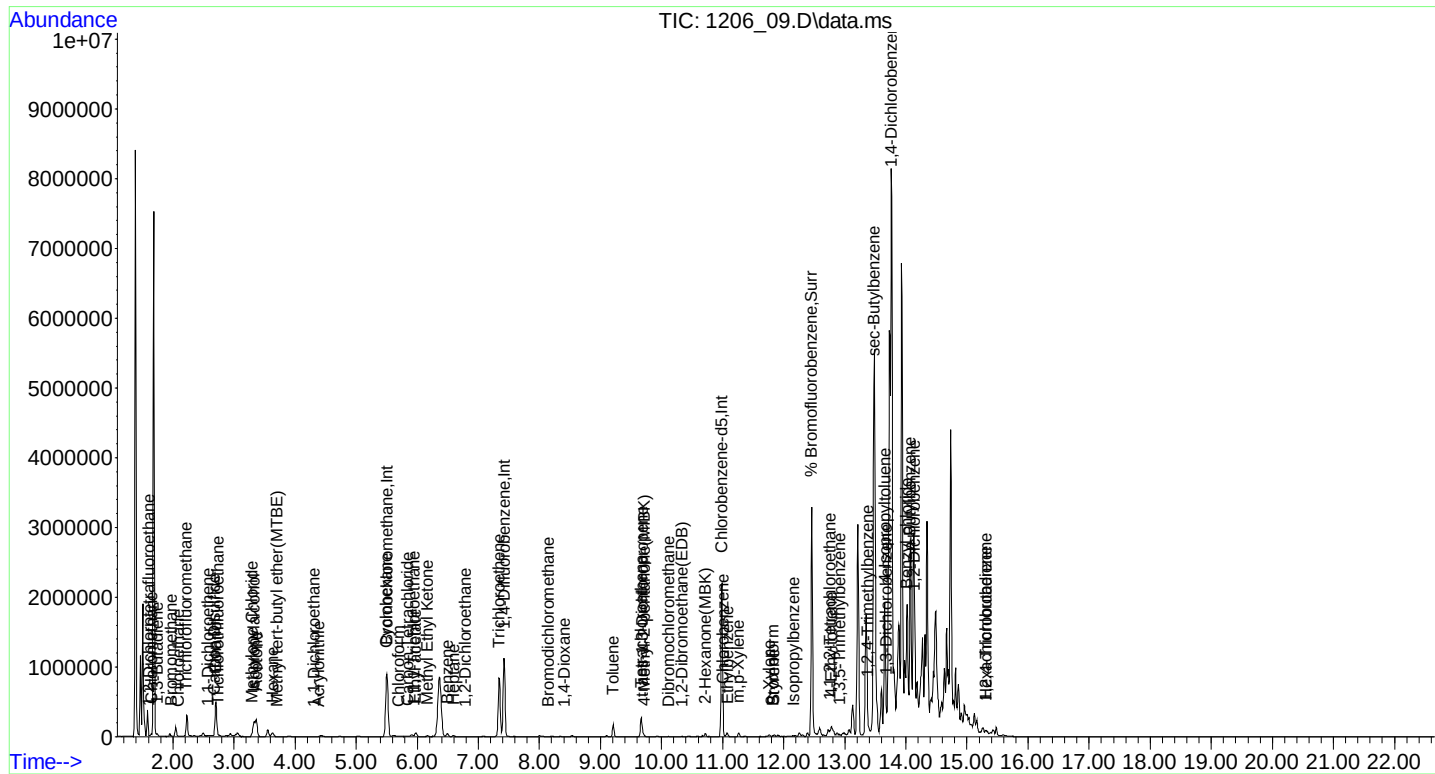
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.504  | 130   | 461409   | 10.000   | ng     | -0.03    |
| 36) 1,4-Difluorobenzene       | 7.422  | 114   | 1084939  | 10.000   | ng     | -0.02    |
| 53) Chlorobenzene-d5          | 10.988 | 82    | 685798   | 10.000   | ng     | -0.01    |
| 80) Bromochloromethane(sim)   | 5.507  | 130   | 473575   | 10.000   | ng     | #-0.03   |
| 94) 1,4-Difluorobenzene(sim)  | 7.425  | 114   | 1184173  | 10.000   | ng     | #-0.02   |
| 104) Chlorobenzene-d5(sim)    | 10.984 | 82    | 738656   | 10.000   | ng     | -0.02    |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 12.458 | 95    | 1019888  | 9.860    | ppbv   | -0.02    |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 98.60%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 4) Chloromethane              | 1.650  | 50    | 28460    | 0.775    | ppbv   | 93       |
| 10) Ethanol                   | 2.704  | 45    | 551178   | 48.148   | ppbv#  | 91       |
| 12) Acetone                   | 3.368  | 43    | 405028   | 5.439    | ppbv   | 95       |
| 13) Trichlorofluoromethane    | 2.218  | 101   | 27743    | 0.186    | ppbv#  | 89       |
| 14) Isopropylalcohol          | 3.327  | 45    | 279531   | 4.378    | ppbv#  | 1        |
| 17) Methylene Chloride        | 3.299  | 49    | 16744    | 0.350    | ppbv   | 96       |
| 25) Methyl Ethyl Ketone       | 6.167  | 43    | 22007    | 0.374    | ppbv#  | 49       |
| 27) Hexane                    | 3.634  | 57    | 33408    | 0.573    | ppbv   | 90       |
| 29) Ethyl acetate             | 5.972  | 43    | 82299    | 1.162    | ppbv   | 100      |
| 33) Benzene                   | 6.491  | 78    | 46465    | 0.440    | ppbv#  | 81       |
| 34) Carbon Tetrachloride      | 5.843  | 117   | 9645     | 0.078    | ppbv   | 94       |
| 39) Trichloroethene           | 7.340  | 130   | 332912   | 6.008    | ppbv   | 90       |
| 43) Heptane                   | 6.594  | 43    | 11974    | 0.273    | ppbv#  | 27       |
| 48) Toluene                   | 9.208  | 91    | 131504   | 1.154    | ppbv   | 95       |
| 52) Tetrachloroethene         | 9.670  | 166   | 77219    | 0.990    | ppbv   | 90       |
| 57) m,p-Xylene                | 11.262 | 91    | 35632    | 0.313    | ppbv   | 96       |
| 66) 4-Ethyltoluene            | 12.782 | 105   | 40269    | 0.245    | ppbv#  | 94       |
| 68) 1,2,4-Trimethylbenzene    | 13.373 | 105   | 34193    | 0.252    | ppbv#  | 91       |
| 86) Carbon Tetrachloride(sim) | 5.838  | 117   | 9794     | 0.077    | ppbv   | 98       |
| 97) Trichloroethene(sim)      | 7.340  | 130   | 332988   | 6.422    | ppbv#  | 88       |
| 103) Tetrachloroethene(sim)   | 9.670  | 166   | 76948    | 1.087    | ppbv   | 74       |
| 107) m,p-Xylene(sim)          | 11.262 | 91    | 35632    | 0.305    | ppbv   | 96       |

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

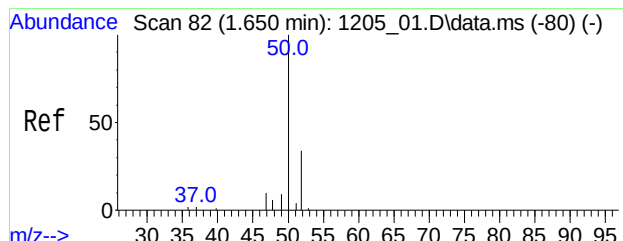
(QT Reviewed)

```
Data Path : H:\AIR2019\CHEM24\12DEC\03B\
Data File : 1206_09.D
Acq On : 6 Dec 2019 7:58 pm
Operator : Keith
Client ID : DRY CLEANER IA-3 DUP
Lab ID : CE81147 DUP
ALS Vial : 105 Sample Multiplier: 1
```

Quant Time: Dec 09 09:02:21 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1203.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Wed Dec 04 08:59:27 2019  
Response via : Initial Calibration

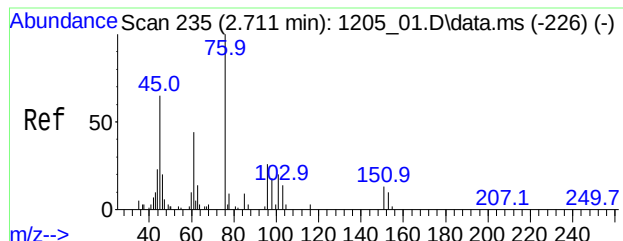
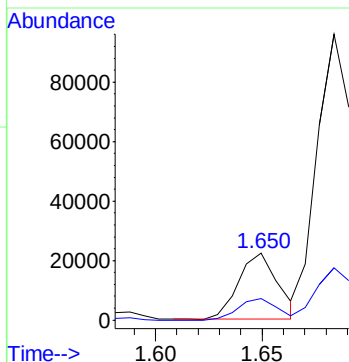
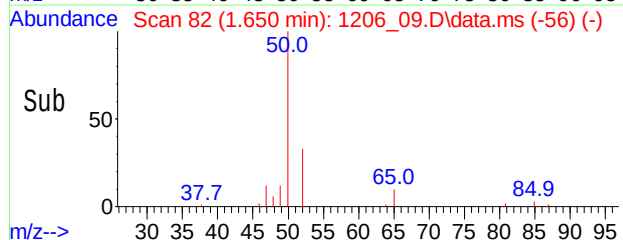
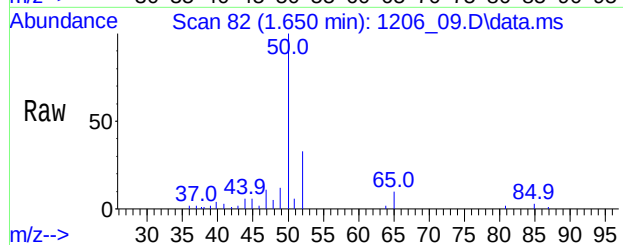






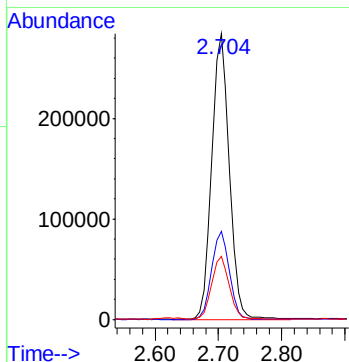
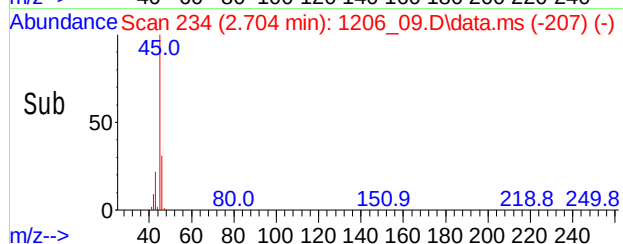
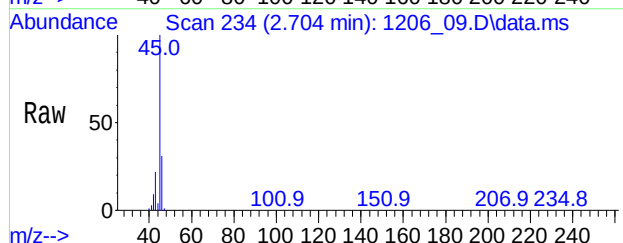
#4  
Chloromethane  
Conc: 8\$ 0.775 ppbv  
RT: 1.650 min Scan# 82  
Delta R.T. -0.020 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

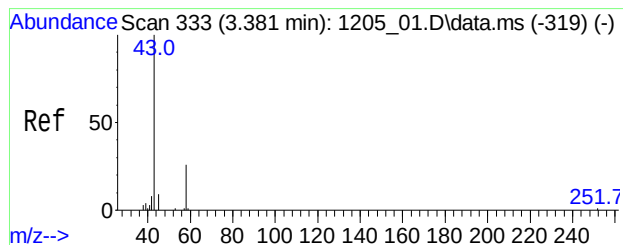
Tgt Ion: 50 Resp: 28460  
Ion Ratio Lower Upper  
50 100  
52 32.5 8.7 48.7



#10  
Ethanol  
Conc: 8\$ 48.148 ppbv  
RT: 2.704 min Scan# 234  
Delta R.T. -0.014 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

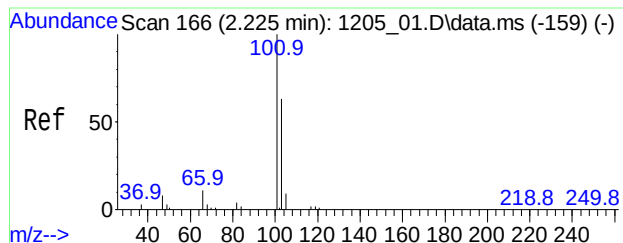
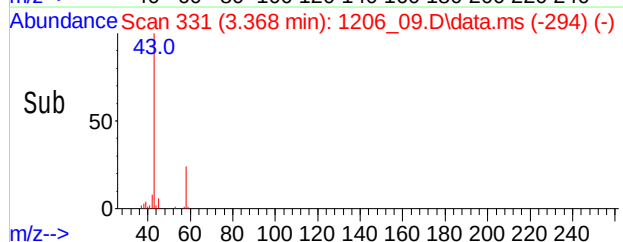
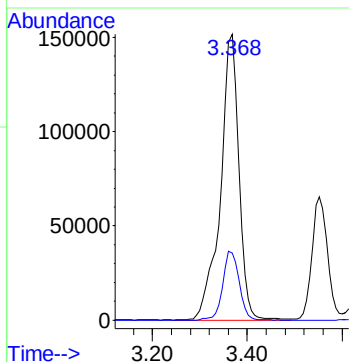
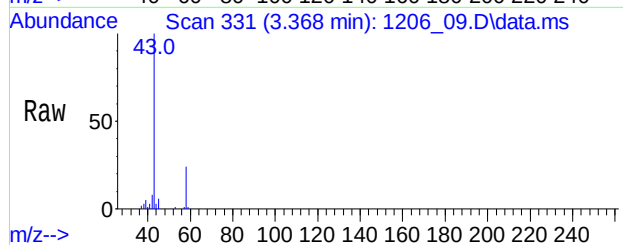
Tgt Ion: 45 Resp: 551178  
Ion Ratio Lower Upper  
45 100  
46 31.3 24.5 36.7  
43 21.9 7.0 10.4#





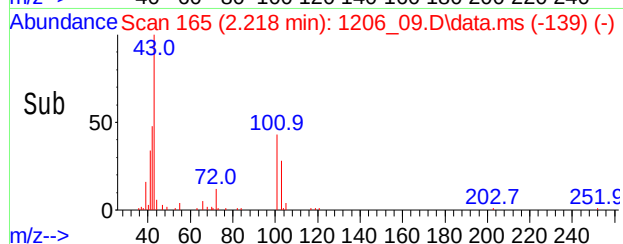
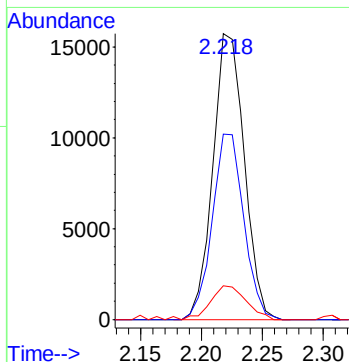
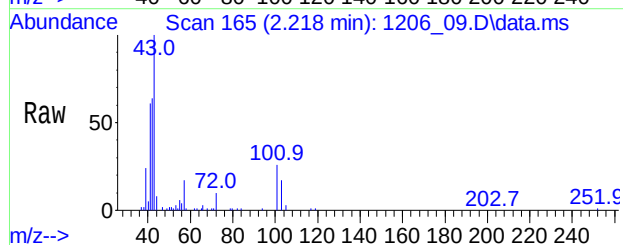
#12  
Acetone  
Conc: 8\$ 5.439 ppbv  
RT: 3.368 min Scan# 331  
Delta R.T. -0.047 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

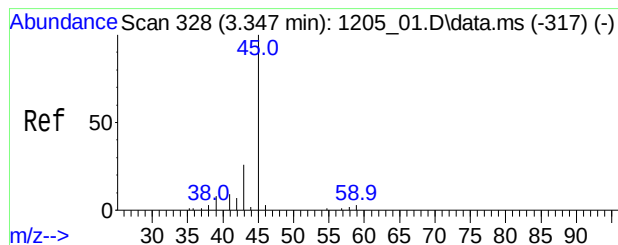
Tgt Ion: 43 Resp: 405028  
Ion Ratio Lower Upper  
43 100  
58 21.4 15.4 23.0



#13  
Trichlorofluoromethane  
Conc: 8\$ 0.186 ppbv  
RT: 2.218 min Scan# 165  
Delta R.T. -0.021 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

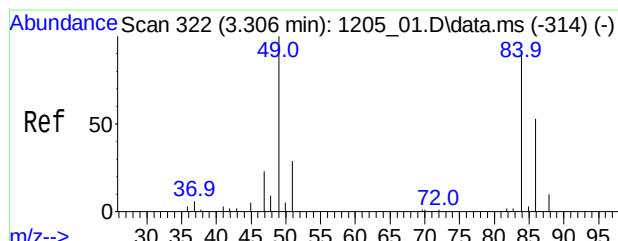
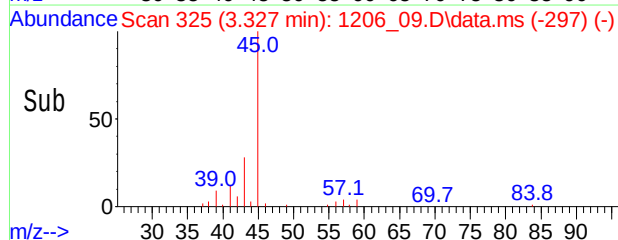
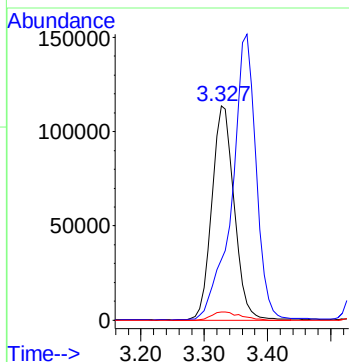
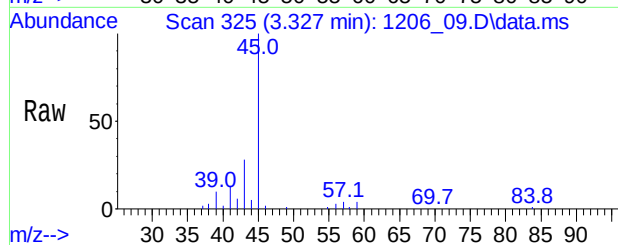
Tgt Ion: 101 Resp: 27743  
Ion Ratio Lower Upper  
101 100  
103 65.2 55.4 83.2  
66 13.5 22.0 33.0#





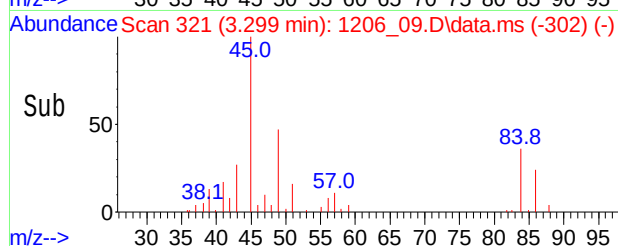
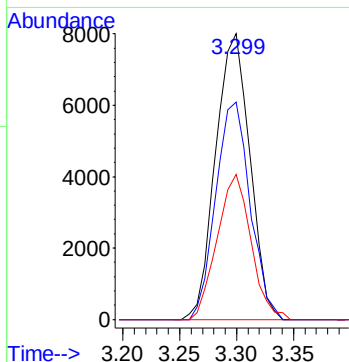
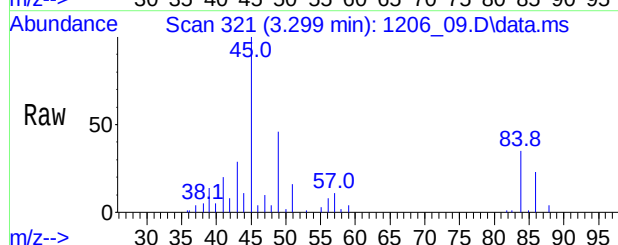
#14  
Isopropylalcohol  
Conc: 8\$ 4.378 ppbv  
RT: 3.327 min Scan# 325  
Delta R.T. -0.006 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

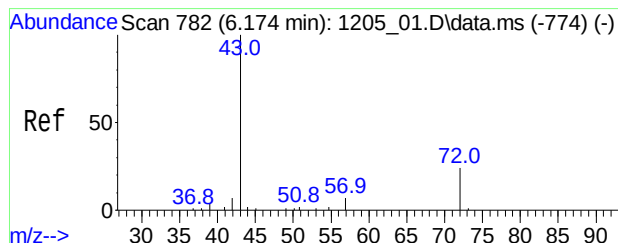
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 45      | 100   | 279531 |       |       |
| 43      | 144.9 | 24.0   | 36.0# |       |
| 59      | 4.9   | 0.0    | 0.0#  |       |



#17  
Methylene Chloride  
Conc: 8\$ 0.350 ppbv  
RT: 3.299 min Scan# 321  
Delta R.T. -0.021 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

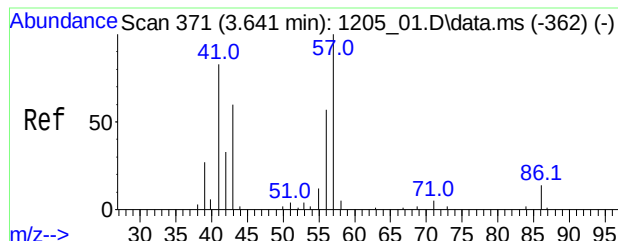
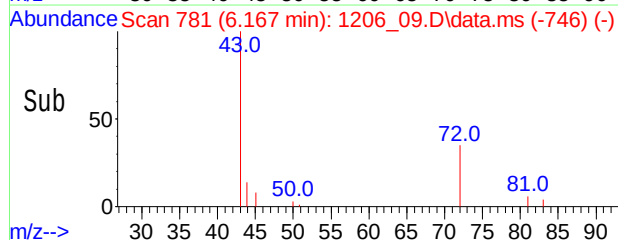
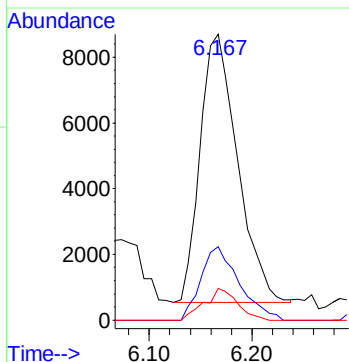
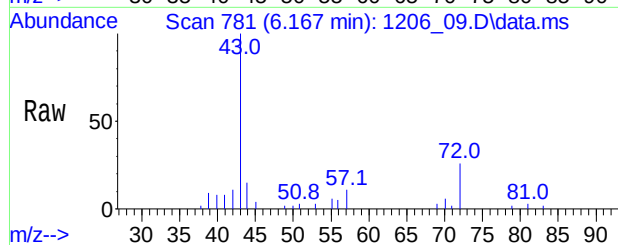
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 49      | 100   | 16744 |       |       |
| 84      | 76.4  | 61.2  | 91.8  |       |
| 86      | 50.0  | 45.3  | 67.9  |       |





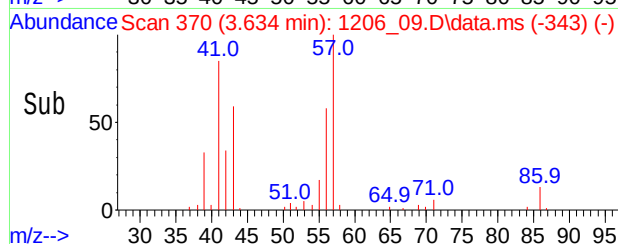
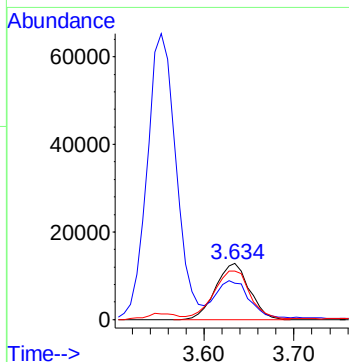
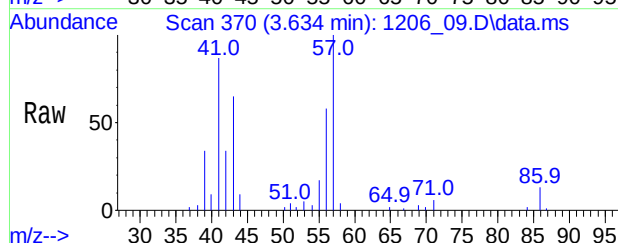
#25  
Methyl Ethyl Ketone  
Conc: 8\$ 0.374 ppbv  
RT: 6.167 min Scan# 781  
Delta R.T. -0.050 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

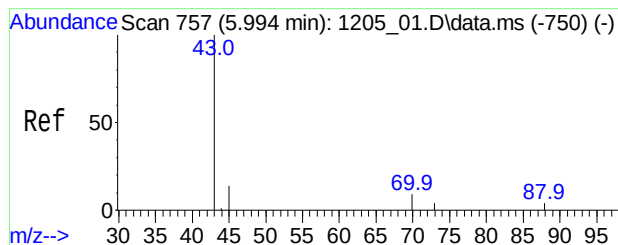
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 43      | 100   | 22007 |       |       |
| 72      | 27.6  | 7.2   | 10.8# |       |
| 57      | 10.9  | 0.0   | 0.0#  |       |



#27  
Hexane  
Conc: 8\$ 0.573 ppbv  
RT: 3.634 min Scan# 370  
Delta R.T. -0.014 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

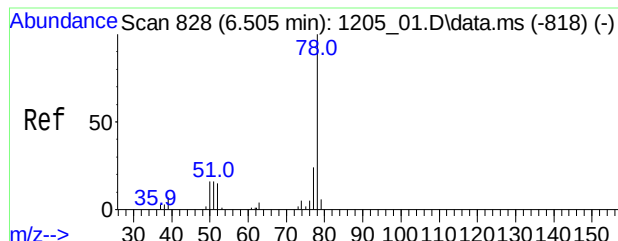
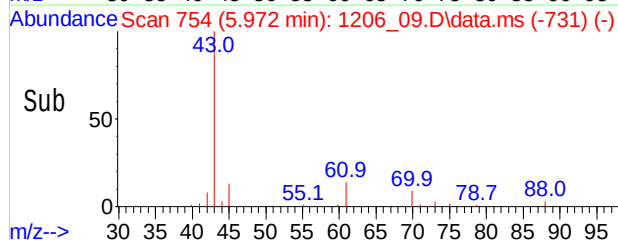
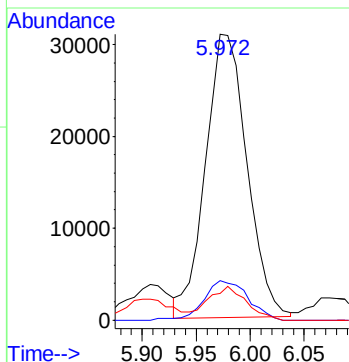
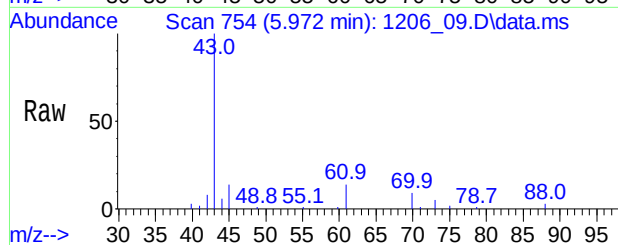
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 57      | 100   | 33408 |       |       |
| 43      | 64.9  | 50.9  | 76.3  |       |
| 41      | 92.0  | 85.5  | 128.3 |       |





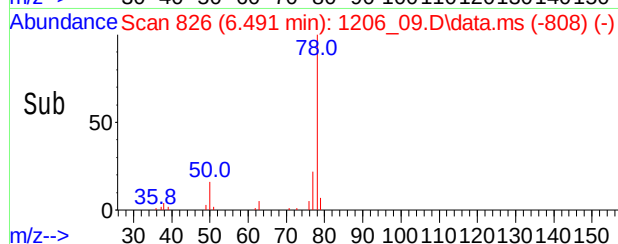
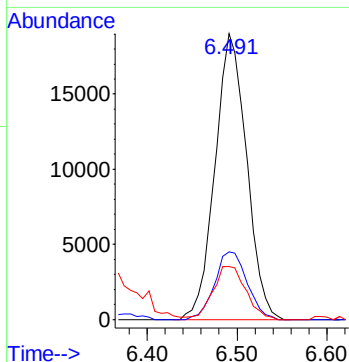
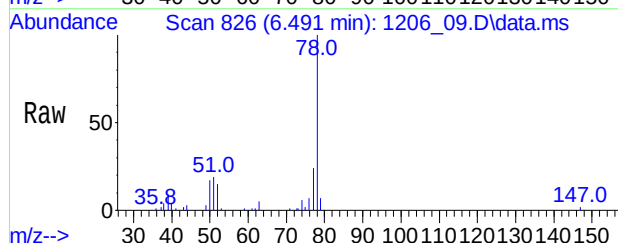
#29  
Ethyl acetate  
Conc: 8\$ 1.162 ppbv  
RT: 5.972 min Scan# 754  
Delta R.T. -0.036 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

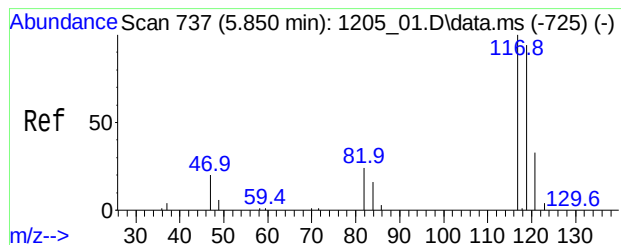
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 43      | 100   | 82299 |       |       |
| 61      | 14.8  | 0.0   | 0.0#  |       |
| 70      | 10.9  | 0.0   | 0.0#  |       |



#33  
Benzene  
Conc: 8\$ 0.440 ppbv  
RT: 6.491 min Scan# 826  
Delta R.T. -0.027 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

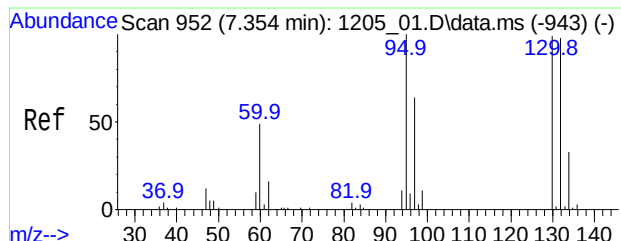
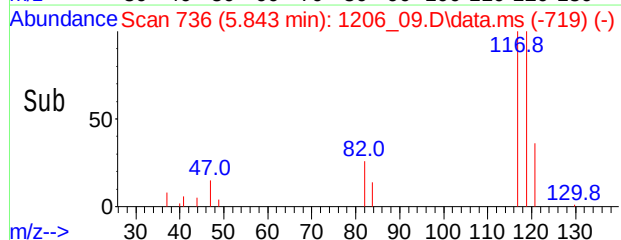
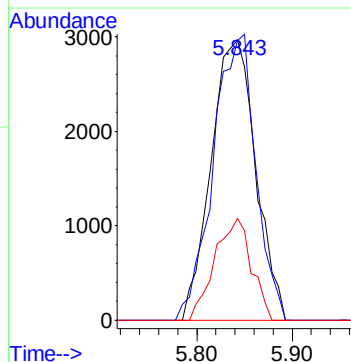
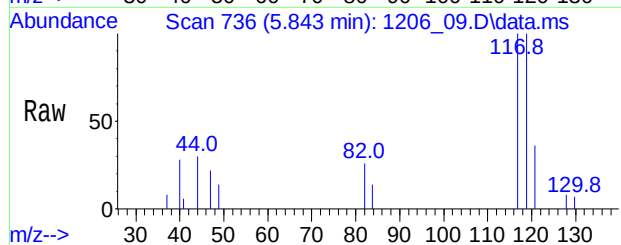
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 78      | 100   | 46465 |       |       |
| 77      | 24.4  | 8.7   | 13.1# |       |
| 51      | 19.4  | 20.6  | 30.8# |       |





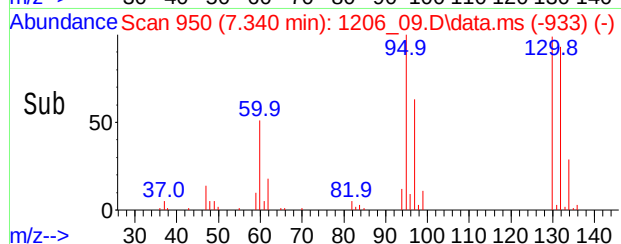
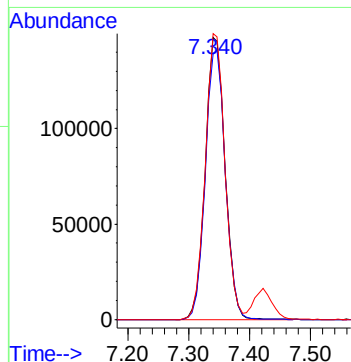
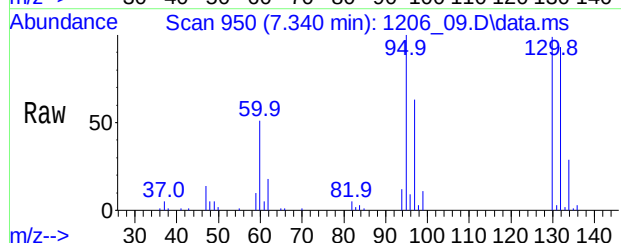
#34  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 5.843 min Scan# 736  
Delta R.T. -0.029 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

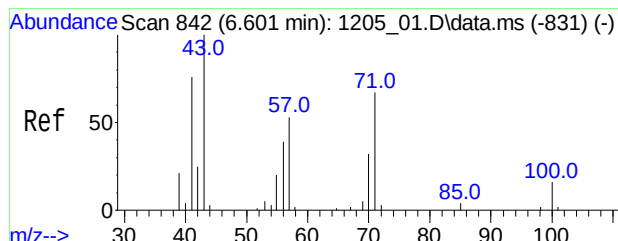
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 9645 |       |       |
| 119     | 97.0  | 75.7 | 115.7 |       |
| 121     | 29.7  | 0.0  | 34.9  |       |



#39  
Trichloroethene  
Conc: 8\$ 6.008 ppbv  
RT: 7.340 min Scan# 950  
Delta R.T. -0.034 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

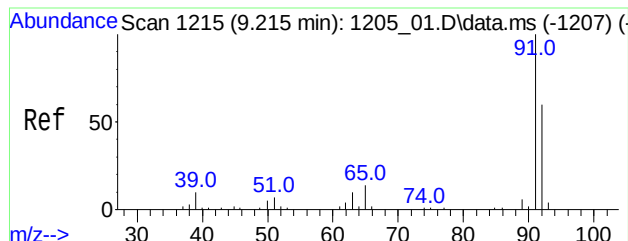
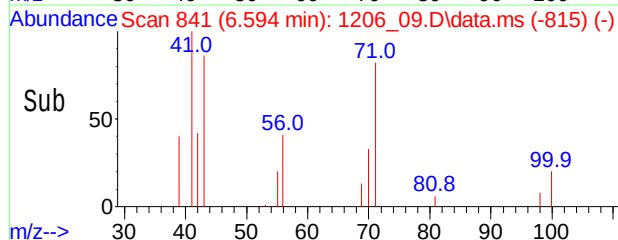
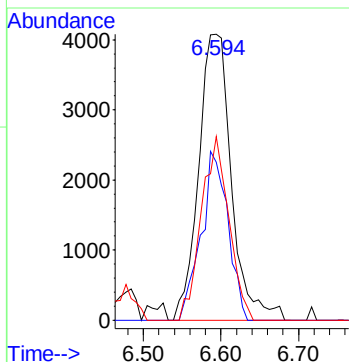
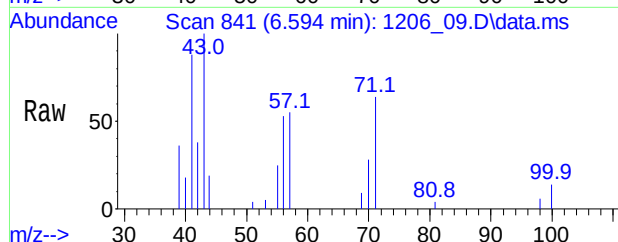
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 130     | 100   | 332912 |       |       |
| 132     | 96.5  | 69.8   | 104.8 |       |
| 95      | 100.5 | 0.0    | 0.0#  |       |





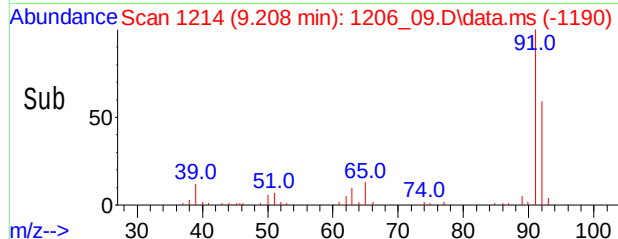
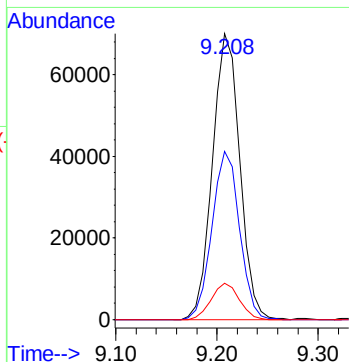
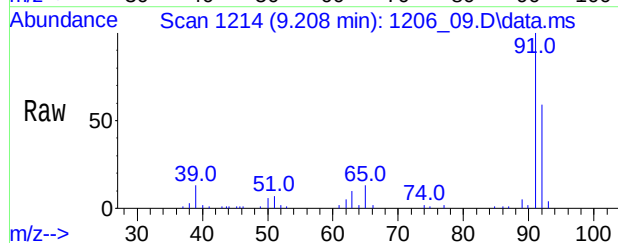
#43  
Heptane  
Conc: 8\$ 0.273 ppbv  
RT: 6.594 min Scan# 841  
Delta R.T. -0.020 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

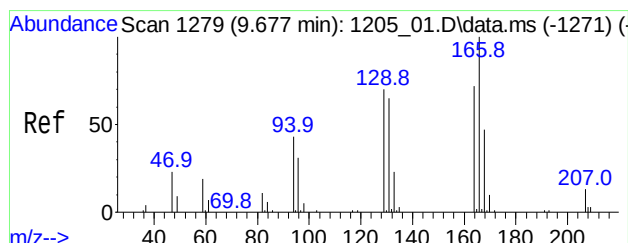
Tgt Ion: 43 Resp: 11974  
Ion Ratio Lower Upper  
43 100  
57 48.1 9.3 13.9#  
71 53.9 18.9 28.3#



#48  
Toluene  
Conc: 8\$ 1.154 ppbv  
RT: 9.208 min Scan# 1214  
Delta R.T. -0.028 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

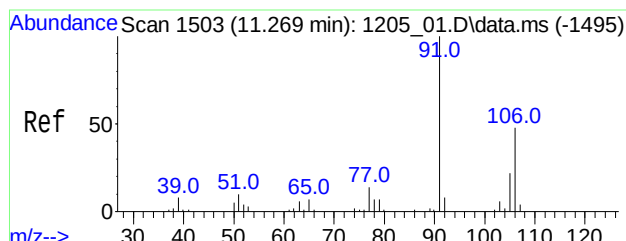
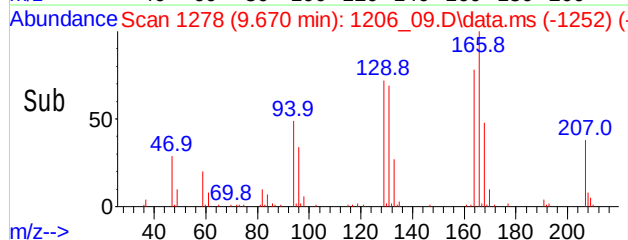
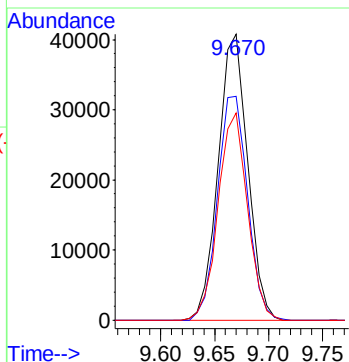
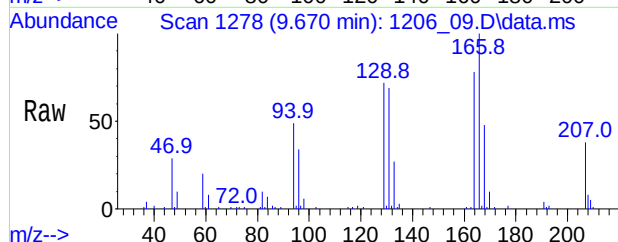
Tgt Ion: 91 Resp: 131504  
Ion Ratio Lower Upper  
91 100  
92 59.0 50.6 75.8  
65 12.9 0.0 0.0#





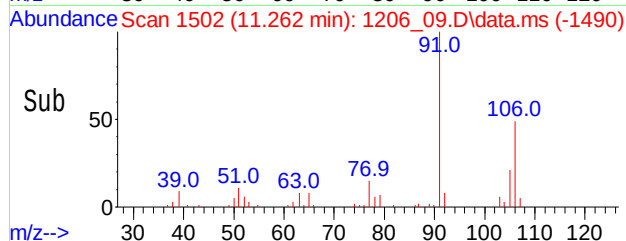
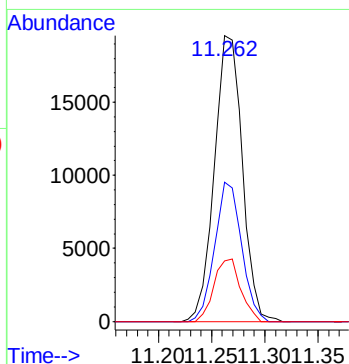
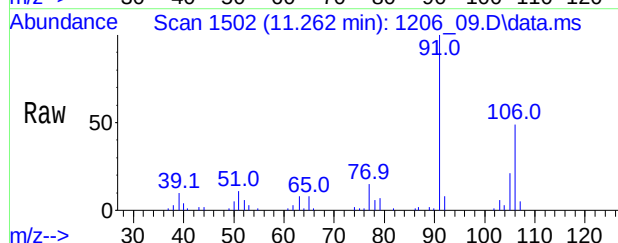
#52  
Tetrachloroethene  
Conc: 8\$ 0.990 ppbv  
RT: 9.670 min Scan# 1278  
Delta R.T. -0.014 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 77219 |       |       |
| 164     | 79.7  | 53.6  | 80.4  |       |
| 129     | 71.9  | 54.5  | 81.7  |       |

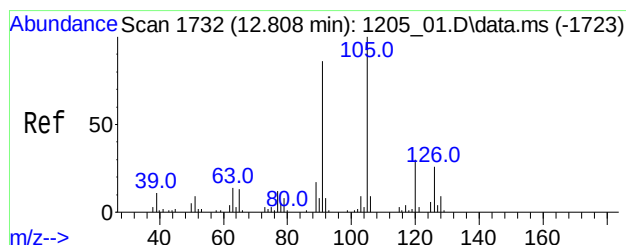


#57  
m,p-Xylene  
Conc: 8\$ 0.313 ppbv  
RT: 11.262 min Scan# 1502  
Delta R.T. -0.021 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 35632 |       |       |
| 106     | 46.7  | 34.9  | 52.3  |       |
| 105     | 20.9  | 16.3  | 24.5  |       |

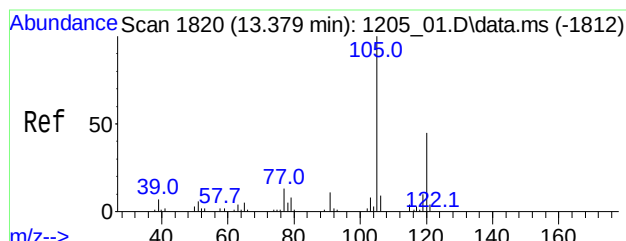
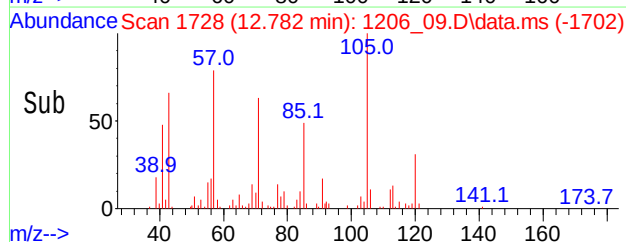
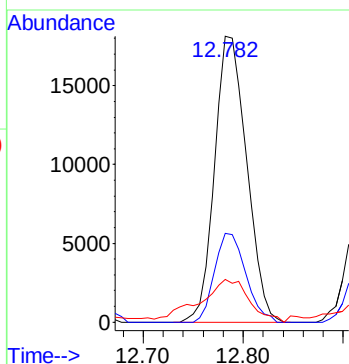
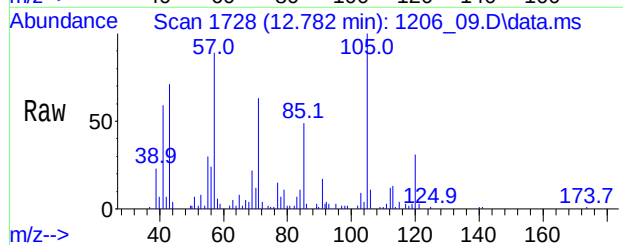






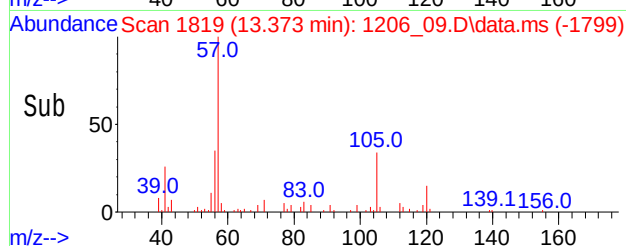
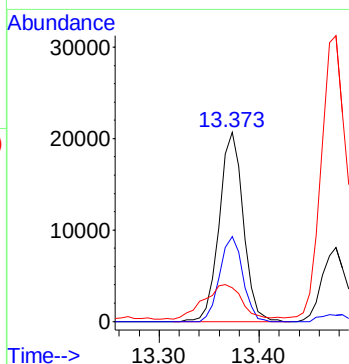
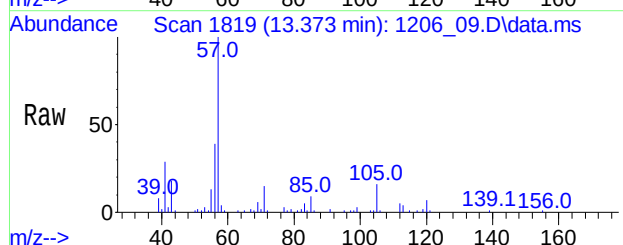
#66  
4-Ethyltoluene  
Conc: 8\$ 0.245 ppbv  
RT: 12.782 min Scan# 1728  
Delta R.T. -0.033 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

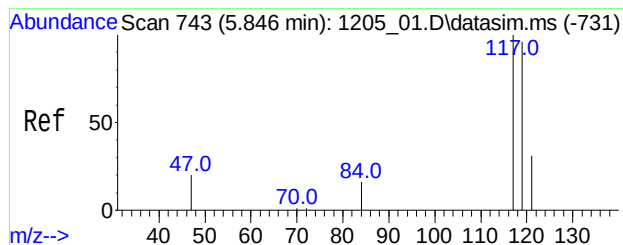
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 40269 |       |       |
| 120     | 30.2  | 23.0  |       | 34.6  |
| 77      | 23.1  | 14.0  |       | 21.0# |



#68  
1,2,4-Trimethylbenzene  
Conc: 8\$ 0.252 ppbv  
RT: 13.373 min Scan# 1819  
Delta R.T. -0.019 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

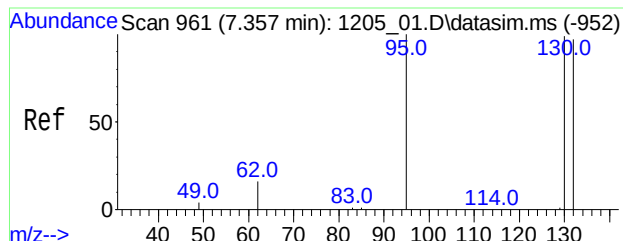
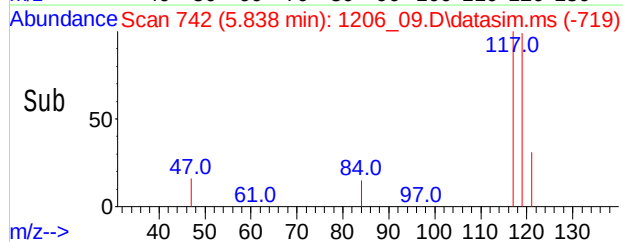
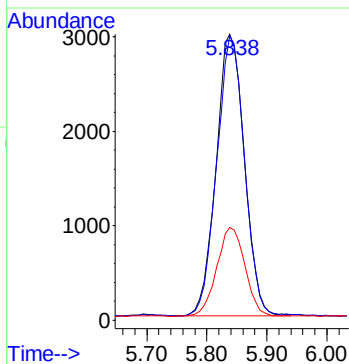
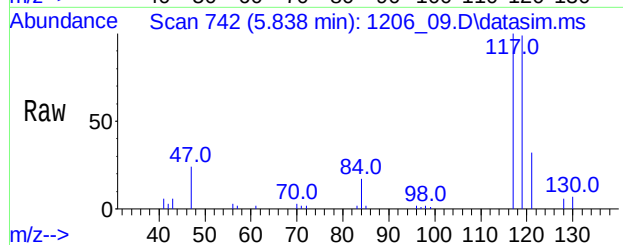
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 34193 |       |       |
| 120     | 43.1  | 34.3  |       | 51.5  |
| 77      | 29.8  | 4.4   |       | 6.6#  |





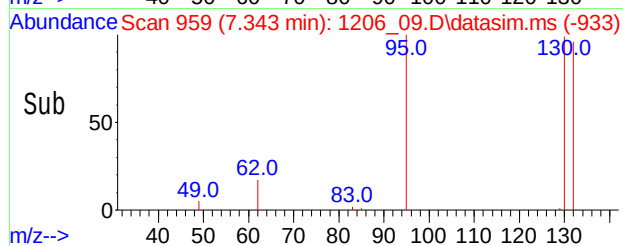
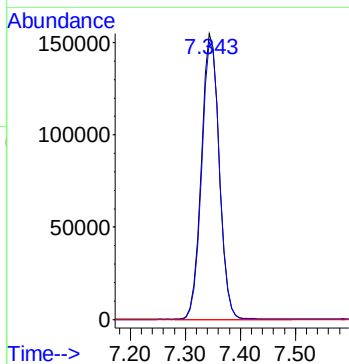
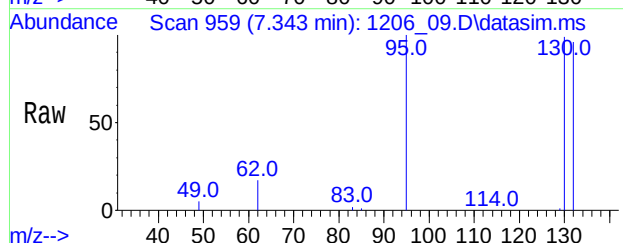
#86  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.077 ppbv  
RT: 5.838 min Scan# 742  
Delta R.T. -0.036 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

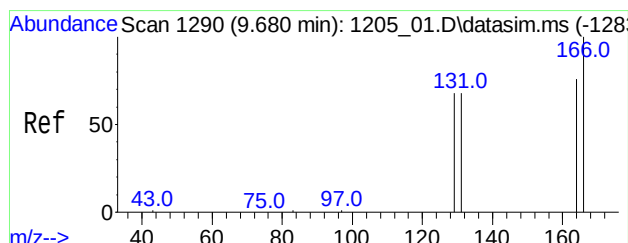
Tgt Ion: 117 Resp: 9794  
Ion Ratio Lower Upper  
117 100  
119 97.5 75.9 113.9  
121 31.4 24.9 37.3



#97  
Trichloroethene(sim)  
Conc: 8\$ 6.422 ppbv  
RT: 7.340 min Scan# 959  
Delta R.T. -0.027 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

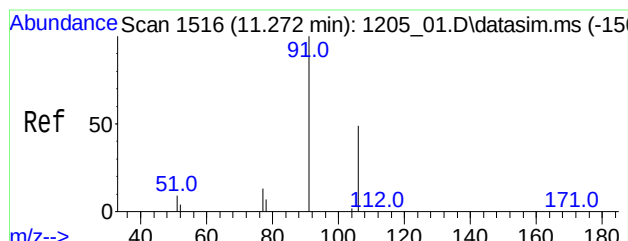
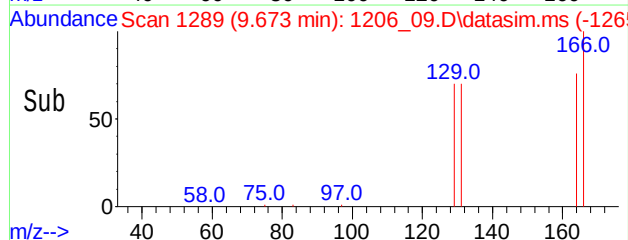
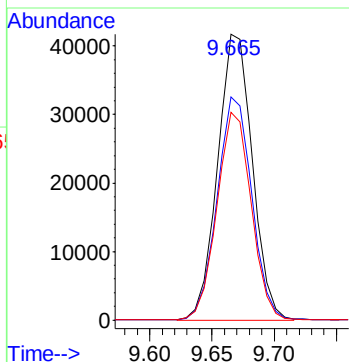
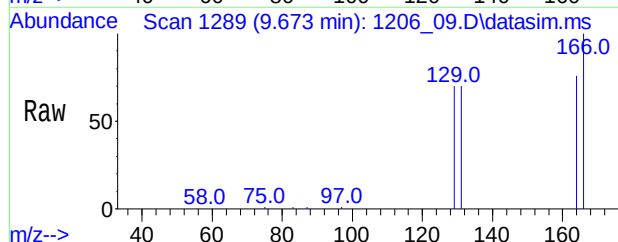
Tgt Ion: 130 Resp: 332988  
Ion Ratio Lower Upper  
130 100  
132 96.5 80.2 120.2  
97 65.0 36.6 55.0#





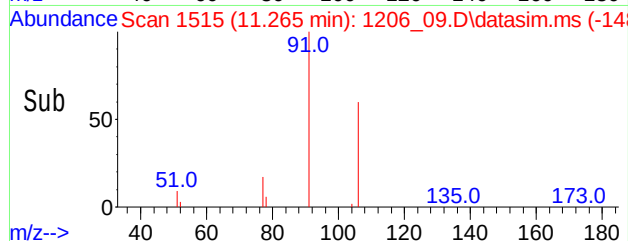
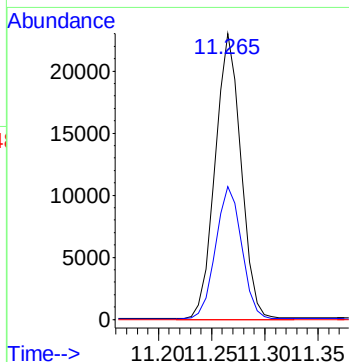
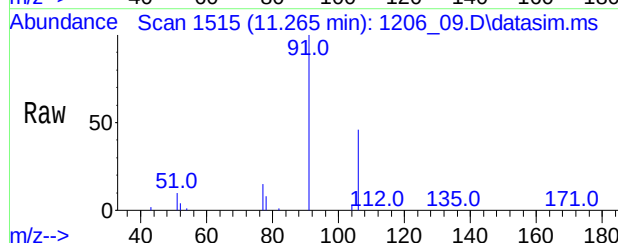
#103  
Tetrachloroethene(sim)  
Conc: 8\$ 1.087 ppbv  
RT: 9.670 min Scan# 1289  
Delta R.T. -0.028 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 76948 |       |       |
| 164     | 80.1  | 40.5  | 80.5  |       |
| 129     | 72.0  | 0.0   | 20.0  |       |



#107  
m,p-Xylene(sim)  
Conc: 8\$ 0.305 ppbv  
RT: 11.262 min Scan# 1515  
Delta R.T. -0.021 min  
Lab File: 1206\_09.D  
Acq: 6 Dec 2019 7:58 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 35632 |       |       |
| 106     | 46.7  | 39.2  | 48.0  |       |
| 105     | 20.9  | 16.3  | 24.5  |       |



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

|              |                 |                  |                          |                 |
|--------------|-----------------|------------------|--------------------------|-----------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> | CE81151 LCS     |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CE81151 LCS</u>       |                 |
| Canister:    | <u>LCS</u>      | Lab File ID:     | <u>1208_04.D</u>         |                 |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u>RTX-VMS</u>           | Date Received:  |
|              |                 |                  |                          | <u>12/05/19</u> |
| Purge Volume | <u>200</u>      | (cc)             | Date Analyzed:           | <u>12/09/19</u> |
| Matrix:      | <u>AIR</u>      | Dilution Factor: | <u>1</u>                 |                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                      | CONC. | Q | MDL   | PQL   | R |
|------------|-------------------------------|-------|---|-------|-------|---|
| 115-07-1   | Propylene                     | 14.5  |   | 0.581 | 0.581 | r |
| 75-71-8    | Dichlorodifluoromethane       | 9.99  |   | 0.202 | 0.202 | r |
| 74-87-3    | Chloromethane                 | 9.80  |   | 0.485 | 0.485 | r |
| 76-14-2    | 1,2-Dichlorotetrafluoroethane | 10.4  |   | 0.143 | 0.143 | r |
| 75-01-4    | Vinyl Chloride                | 10.2  |   | 0.078 | 0.078 | r |
| 106-99-0   | 1,3-Butadiene                 | 10.7  |   | 0.452 | 0.452 | r |
| 74-83-9    | Bromomethane                  | 9.55  |   | 0.258 | 0.258 | r |
| 75-00-3    | Chloroethane                  | 9.46  |   | 0.379 | 0.379 | r |
| 64-17-5    | Ethanol                       | 8.96  |   | 0.531 | 0.531 | r |
| 67-64-1    | Acetone                       | 10.6  |   | 0.421 | 0.421 | r |
| 75-69-4    | Trichlorofluoromethane        | 8.73  |   | 0.178 | 0.178 | r |
| 67-63-0    | Isopropylalcohol              | 9.33  |   | 0.407 | 0.407 | r |
| 107-13-1   | Acrylonitrile                 | 10.4  |   | 0.461 | 0.461 | r |
| 75-35-4    | 1,1-Dichloroethene            | 9.90  |   | 0.051 | 0.051 | r |
| 75-09-2    | Methylene Chloride            | 9.83  |   | 0.864 | 0.864 | r |
| 75-15-0    | Carbon Disulfide              | 10.4  |   | 0.321 | 0.321 | r |
| 156-60-5   | Trans-1,2-Dichloroethene      | 10.4  |   | 0.252 | 0.252 | r |
| 75-34-3    | 1,1-Dichloroethane            | 10.9  |   | 0.247 | 0.247 | r |
| 1634-04-4  | Methyl tert-butyl ether(MTBE) | 10.6  |   | 0.278 | 0.278 | r |
| 78-93-3    | Methyl Ethyl Ketone           | 11.9  |   | 0.339 | 0.339 | r |
| 156-59-2   | Cis-1,2-Dichloroethene        | 11.9  |   | 0.051 | 0.051 | r |
| 110-54-3   | Hexane                        | 11.4  |   | 0.284 | 0.284 | r |
| 67-66-3    | Chloroform                    | 10.9  |   | 0.205 | 0.205 | r |
| 141-78-6   | Ethyl acetate                 | 11.5  |   | 0.278 | 0.278 | r |
| 109-99-9   | Tetrahydrofuran               | 11.5  |   | 0.339 | 0.339 | r |
| 107-06-2   | 1,2-Dichloroethane            | 10.9  |   | 0.247 | 0.247 | r |
| 71-55-6    | 1,1,1-Trichloroethane         | 10.0  |   | 0.183 | 0.183 | r |
| 71-43-2    | Benzene                       | 11.0  |   | 0.313 | 0.313 | r |
| 56-23-5    | Carbon Tetrachloride          | 10.3  |   | 0.032 | 0.032 | r |
| 110-82-7   | Cyclohexane                   | 11.9  |   | 0.291 | 0.291 | r |
| 78-87-5    | 1,2-dichloropropane           | 12.0  |   | 0.217 | 0.217 | r |
| 75-27-4    | Bromodichloromethane          | 10.6  |   | 0.149 | 0.149 | r |
| 79-01-6    | Trichloroethene               | 11.6  |   | 0.037 | 0.037 | r |
| 123-91-1   | 1,4-Dioxane                   | 12.3  |   | 0.278 | 0.278 | r |
| 142-82-5   | Heptane                       | 11.7  |   | 0.244 | 0.244 | r |
| 10061-01-5 | cis-1,3-Dichloropropene       | 12.5  |   | 0.220 | 0.220 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

|              |                 |                  |                          |                 |
|--------------|-----------------|------------------|--------------------------|-----------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> | CE81151 LCS     |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CE81151 LCS</u>       |                 |
| Canister:    | <u>LCS</u>      | Lab File ID:     | <u>1208_04.D</u>         |                 |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u>RTX-VMS</u>           | Date Received:  |
|              |                 |                  |                          | <u>12/05/19</u> |
| Purge Volume | <u>200</u>      | (cc)             | Date Analyzed:           | <u>12/09/19</u> |
| Matrix:      | <u>AIR</u>      | Dilution Factor: | <u>1</u>                 |                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                      | CONC. | Q | MDL   | PQL   | R |
|-------------|-------------------------------|-------|---|-------|-------|---|
| 108-10-1    | 4-Methyl-2-pentanone(MIBK)    | 11.8  |   | 0.244 | 0.244 | r |
| 10061-02-6  | trans-1,3-Dichloropropene     | 10.9  |   | 0.220 | 0.220 | r |
| 79-00-5     | 1,1,2-Trichloroethane         | 10.4  |   | 0.183 | 0.183 | r |
| 108-88-3    | Toluene                       | 12.6  |   | 0.266 | 0.266 | r |
| 124-48-1    | Dibromochloromethane          | 10.5  |   | 0.117 | 0.117 | r |
| 591-78-6    | 2-Hexanone(MBK)               | 12.6  |   | 0.244 | 0.244 | r |
| 106-93-4    | 1,2-Dibromoethane(EDB)        | 11.2  |   | 0.130 | 0.130 | r |
| 127-18-4    | Tetrachloroethene             | 11.2  |   | 0.037 | 0.037 | r |
| 630-20-6    | 1,1,1,2-Tetrachloroethane     | 9.98  |   | 0.146 | 0.146 | r |
| 108-90-7    | Chlorobenzene                 | 11.0  |   | 0.217 | 0.217 | r |
| 100-41-4    | Ethylbenzene                  | 11.3  |   | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene                    | 24.8  |   | 0.230 | 0.230 | r |
| 75-25-2     | Bromoform                     | 10.2  |   | 0.097 | 0.097 | r |
| 100-42-5    | Styrene                       | 12.0  |   | 0.235 | 0.235 | r |
| 79-34-5     | 1,1,2,2-Tetrachloroethane     | 10.4  |   | 0.146 | 0.146 | r |
| 95-47-6     | o-Xylene                      | 13.1  |   | 0.230 | 0.230 | r |
| 98-82-8     | Isopropylbenzene              | 13.0  |   | 0.204 | 0.204 | r |
| 622-96-8    | 4-Ethyltoluene                | 11.6  |   | 0.204 | 0.204 | r |
| 108-67-8    | 1,3,5-Trimethylbenzene        | 12.2  |   | 0.204 | 0.204 | r |
| 95-63-6     | 1,2,4-Trimethylbenzene        | 12.5  |   | 0.204 | 0.204 | r |
| 100-44-7    | Benzyl chloride               | 10.2  |   | 0.193 | 0.193 | r |
| 541-73-1    | 1,3-Dichlorobenzene           | 10.5  |   | 0.166 | 0.166 | r |
| 106-46-7    | 1,4-Dichlorobenzene           | 11.6  |   | 0.166 | 0.166 | r |
| 135-98-8    | sec-Butylbenzene              | 11.8  |   | 0.182 | 0.182 | r |
| 99-87-6     | 4-Isopropyltoluene            | 12.2  |   | 0.182 | 0.182 | r |
| 95-50-1     | 1,2-Dichlorobenzene           | 11.2  |   | 0.166 | 0.166 | r |
| 104-51-8    | n-Butylbenzene                | 11.5  |   | 0.182 | 0.182 | r |
| 120-82-1    | 1,2,4-Trichlorobenzene        | 9.51  |   | 0.135 | 0.135 | r |
| 87-68-3     | Hexachlorobutadiene           | 9.02  |   | 0.094 | 0.094 | r |
| 76-13-1     | Trichlorotrifluoroethane(sim) | 0.131 | U | 0.131 | 0.131 | r |
|             |                               |       |   |       |       |   |
|             |                               |       |   |       |       |   |
|             |                               |       |   |       |       |   |
|             |                               |       |   |       |       |   |
|             |                               |       |   |       |       |   |
|             |                               |       |   |       |       |   |
|             |                               |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_04.D  
 Acq On : 9 Dec 2019 12:55 am  
 Operator : Keith  
 Client ID : CE81151 LCS  
 Lab ID : CE81151 LCS  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 09:48:47 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards           |        |      |          |        |       |          |
| 1) Bromochloromethane        | 5.482  | 130  | 242609   | 10.000 | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.409  | 114  | 667018   | 10.000 | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.974 | 82   | 389405   | 10.000 | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.485  | 130  | 252308   | 10.000 | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.405  | 114  | 745016   | 10.000 | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.977 | 82   | 417900   | 10.000 | ng    | 0.00     |

## System Monitoring Compounds

|                          |        |       |          |          |           |      |
|--------------------------|--------|-------|----------|----------|-----------|------|
| 62) % Bromofluorobenzene | 12.451 | 95    | 613536   | 10.236   | ppbv      | 0.00 |
| Spiked Amount            | 10.000 | Range | 70 - 130 | Recovery | = 102.40% |      |

## Target Compounds

|                               |        |     |        |        |       | Qvalue |
|-------------------------------|--------|-----|--------|--------|-------|--------|
| 2) Propylene                  | 1.458  | 41  | 337543 | 14.531 | ppbv# | 76     |
| 3) Dichlorodifluoromethane    | 1.492  | 101 | 107265 | 9.991  | ppbv# | 87     |
| 4) Chloromethane              | 1.636  | 50  | 202009 | 9.797  | ppbv  | 97     |
| 5) 1,2-Dichlorotetrafluor...  | 1.602  | 135 | 640865 | 10.361 | ppbv# | 95     |
| 6) Vinyl Chloride             | 1.711  | 62  | 241337 | 10.178 | ppbv# | 47     |
| 7) 1,3-Butadiene              | 1.732  | 54  | 150680 | 10.745 | ppbv# | 39     |
| 8) Bromomethane               | 1.965  | 94  | 361730 | 9.549  | ppbv  | 89     |
| 9) Chloroethane               | 2.081  | 64  | 124529 | 9.464  | ppbv  | 82     |
| 10) Ethanol                   | 2.691  | 45  | 57922  | 8.956  | ppbv# | 74     |
| 12) Acetone                   | 3.354  | 43  | 405563 | 10.589 | ppbv  | 93     |
| 13) Trichlorofluoromethane    | 2.204  | 101 | 790262 | 8.734  | ppbv# | 82     |
| 14) Isopropylalcohol          | 3.320  | 45  | 344048 | 9.328  | ppbv# | 1      |
| 15) Acrylonitrile             | 4.361  | 53  | 116428 | 10.396 | ppbv# | 9      |
| 16) 1,1-Dichloroethene        | 2.663  | 61  | 435604 | 9.897  | ppbv# | 72     |
| 17) Methylene Chloride        | 3.279  | 49  | 271374 | 9.828  | ppbv# | 79     |
| 20) Carbon Disulfide          | 2.663  | 76  | 795995 | 10.421 | ppbv  | 99     |
| 21) Trichlorotrifluoroethane  | 2.725  | 101 | 591483 | 9.399  | ppbv  | 96     |
| 22) Trans-1,2-Dichloroethene  | 3.477  | 61  | 351018 | 10.360 | ppbv# | 88     |
| 23) 1,1-Dichloroethane        | 4.283  | 63  | 469025 | 10.882 | ppbv  | 70     |
| 24) Methyl tert-butyl ethe... | 3.669  | 73  | 584736 | 10.585 | ppbv# | 55     |
| 25) Methyl Ethyl Ketone       | 6.145  | 43  | 476361 | 11.941 | ppbv# | 49     |
| 26) Cis-1,2-Dichloroethene    | 5.172  | 61  | 401019 | 11.923 | ppbv# | 71     |
| 27) Hexane                    | 3.607  | 57  | 303293 | 11.408 | ppbv# | 57     |
| 28) Chloroform                | 5.677  | 83  | 646067 | 10.941 | ppbv  | 87     |
| 29) Ethyl acetate             | 5.965  | 43  | 442607 | 11.535 | ppbv# | 53     |
| 30) Tetrahydrofuran           | 5.879  | 42  | 164506 | 11.467 | ppbv  | 100    |
| 31) 1,2-Dichloroethane        | 6.765  | 62  | 467842 | 10.879 | ppbv# | 74     |
| 32) 1,1,1-Trichloroethane     | 5.922  | 97  | 608216 | 10.009 | ppbv# | 76     |
| 33) Benzene                   | 6.477  | 78  | 611377 | 10.958 | ppbv# | 91     |
| 34) Carbon Tetrachloride      | 5.814  | 117 | 727079 | 10.282 | ppbv  | 99     |
| 35) Cyclohexane               | 5.468  | 56  | 298627 | 11.848 | ppbv# | 89     |
| 37) 1,2-dichloropropane       | 7.977  | 63  | 271089 | 12.038 | ppbv# | 61     |
| 38) Bromodichloromethane      | 8.121  | 83  | 709212 | 10.633 | ppbv  | 97     |
| 39) Trichloroethene           | 7.326  | 130 | 398534 | 11.605 | ppbv  | 92     |
| 41) 1,4-Dioxane               | 8.377  | 88  | 165405 | 12.287 | ppbv  | 100    |
| 43) Heptane                   | 6.566  | 43  | 314240 | 11.678 | ppbv  | 98     |
| 44) cis-1,3-Dichloropropene   | 8.912  | 75  | 512456 | 12.526 | ppbv# | 48     |
| 45) 4-Methyl-2-pentanone(M... | 9.698  | 43  | 476726 | 11.778 | ppbv# | 48     |
| 46) trans-1,3-Dichloropropene | 9.727  | 75  | 415712 | 10.943 | ppbv  | 92     |
| 47) 1,1,2-Trichloroethane     | 9.908  | 97  | 330194 | 10.425 | ppbv# | 68     |
| 48) Toluene                   | 9.193  | 91  | 870612 | 12.619 | ppbv  | 91     |
| 49) Dibromochloromethane      | 10.103 | 129 | 773566 | 10.452 | ppbv# | 96     |
| 50) 2-Hexanone(MBK)           | 10.706 | 43  | 566616 | 12.622 | ppbv# | 70     |
| 51) 1,2-Dibromoethane(EDB)    | 10.327 | 107 | 623682 | 11.165 | ppbv  | 99     |

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_04.D  
 Acq On : 9 Dec 2019 12:55 am  
 Operator : Keith  
 Client ID : CE81151 LCS  
 Lab ID : CE81151 LCS  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 09:48:47 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Mon Dec 09 09:45:44 2019  
 Response via : Initial Calibration

| Compound                       | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 52) Tetrachloroethene          | 9.655  | 166  | 547056   | 11.149 | ppbv  | 94       |
| 54) 1,1,1,2-Tetrachloroethane  | 11.098 | 131  | 374967   | 9.980  | ppbv# | 80       |
| 55) Chlorobenzene              | 10.995 | 112  | 689604   | 11.019 | ppbv# | 1        |
| 56) Ethylbenzene               | 11.070 | 91   | 1028415  | 11.342 | ppbv  | 87       |
| 57) m,p-Xylene                 | 11.255 | 91   | 1596875  | 24.750 | ppbv# | 90       |
| 58) Bromoform                  | 11.811 | 173  | 682500   | 10.233 | ppbv  | 92       |
| 59) Styrene                    | 11.818 | 104  | 587675   | 12.008 | ppbv# | 40       |
| 60) 1,1,2,2-Tetrachloroethane  | 12.743 | 83   | 704869   | 10.368 | ppbv# | 84       |
| 61) o-Xylene                   | 11.749 | 91   | 982411   | 13.132 | ppbv  | 90       |
| 64) Isopropylbenzene           | 12.146 | 105  | 1186896  | 13.027 | ppbv  | 97       |
| 66) 4-Ethyltoluene             | 12.789 | 105  | 1102127  | 11.639 | ppbv# | 68       |
| 67) 1,3,5-Trimethylbenzene     | 12.906 | 105  | 980579   | 12.206 | ppbv# | 93       |
| 68) 1,2,4-Trimethylbenzene     | 13.360 | 105  | 1001377  | 12.485 | ppbv# | 93       |
| 70) Benzyl chloride            | 14.048 | 91   | 895865   | 10.216 | ppbv# | 89       |
| 71) 1,3-Dichlorobenzene        | 13.671 | 146  | 687418   | 10.494 | ppbv  | 97       |
| 72) 1,4-Dichlorobenzene        | 13.762 | 146  | 736082   | 11.566 | ppbv# | 92       |
| 73) sec-Butylbenzene           | 13.483 | 105  | 1312027  | 11.808 | ppbv# | 92       |
| 74) 4-Isopropyltoluene         | 13.652 | 119  | 1099805  | 12.221 | ppbv# | 89       |
| 75) 1,2-Dichlorobenzene        | 14.139 | 146  | 679110   | 11.168 | ppbv  | 93       |
| 76) n-Butylbenzene             | 14.048 | 91   | 895865   | 11.536 | ppbv# | 93       |
| 77) 1,2,4-Trichlorobenzene     | 15.309 | 180  | 433808   | 9.507  | ppbv# | 75       |
| 79) Hexachlorobutadiene        | 15.309 | 225  | 515239   | 9.017  | ppbv  | 98       |
| 81) 1,2-Dichlorotetrafluor...  | 1.602  | 135  | 639720   | 9.599  | ppbv# | 94       |
| 82) Vinyl Chloride(sim)        | 1.714  | 62   | 260662   | 9.945  | ppbv  | 92       |
| 83) Bromomethane(sim)          | 1.965  | 94   | 361730   | 8.578  | ppbv# | 55       |
| 84) Trichlorofluoromethane...  | 2.207  | 101  | 796487   | 7.210  | ppbv  | 96       |
| 85) 1,1,1-Trichloroethane(...  | 5.922  | 97   | 607974   | 9.903  | ppbv# | 77       |
| 86) Carbon Tetrachloride(sim)  | 5.817  | 117  | 742915   | 10.193 | ppbv  | 99       |
| 87) 1,1-Dichloroethene(sim)    | 2.663  | 61   | 435604   | 9.515  | ppbv# | 59       |
| 89) Trans-1,2-Dichloroethe...  | 3.477  | 61   | 351018   | 10.066 | ppbv# | 88       |
| 90) 1,1-Dichloroethane(sim)    | 4.286  | 63   | 505773   | 10.899 | ppbv  | 98       |
| 91) Cis-1,2-Dichloroethene...  | 5.172  | 61   | 401133   | 13.300 | ppbv# | 69       |
| 92) Chloroform(sim)            | 5.680  | 83   | 681669   | 11.179 | ppbv# | 96       |
| 93) 1,2-Dichloroethane(sim)    | 6.765  | 62   | 467842   | 11.191 | ppbv  | 81       |
| 95) 1,2-dichloropropane(sim)   | 7.977  | 63   | 271089   | 13.698 | ppbv# | 75       |
| 96) Bromodichloromethane(sim)  | 8.124  | 83   | 738041   | 10.959 | ppbv  | 97       |
| 97) Trichloroethene(sim)       | 7.326  | 130  | 398534   | 12.333 | ppbv# | 83       |
| 98) 1,4-Dioxane(sim)           | 8.380  | 88   | 183325   | 9.043  | ppbv# | 13       |
| 99) cis-1,3-Dichloropropen...  | 8.912  | 75   | 512456   | 7.938  | ppbv# | 53       |
| 100) 1,1,2-Trichloroethane(... | 9.904  | 97   | 358344   | 10.855 | ppbv  | 98       |
| 101) Dibromochloromethane(sim) | 10.103 | 129  | 773148   | 11.103 | ppbv  | 100      |
| 102) 1,2-Dibromoethane(EDB)... | 10.329 | 107  | 649621   | 12.157 | ppbv  | 95       |
| 103) Tetrachloroethene(sim)    | 9.655  | 166  | 547056   | 12.512 | ppbv# | 81       |
| 105) Bromoform(sim)            | 11.811 | 173  | 682453   | 11.074 | ppbv# | 80       |
| 106) 1,1,1,2-Tetrachloroeth... | 11.094 | 131  | 395421   | 10.051 | ppbv  | 98       |
| 107) m,p-Xylene(sim)           | 11.255 | 91   | 1598396  | 18.162 | ppbv# | 90       |
| 108) 1,1,2,2-Tetrachloroeth... | 12.746 | 83   | 744511   | 10.688 | ppbv  | 97       |
| 111) Benzyl chloride(sim)      | 14.009 | 91   | 864126   | 8.434  | ppbv  | 94       |
| 112) 1,3-Dichlorobenzene(sim)  | 13.668 | 146  | 739172   | 10.779 | ppbv  | 96       |
| 113) 1,4-Dichlorobenzene(sim)  | 13.762 | 146  | 736524   | 9.361  | ppbv  | 87       |
| 114) sec-Butylbenzene(sim)     | 13.480 | 105  | 1390079  | 8.903  | ppbv  | 96       |
| 115) 4-Isopropyltoluene(sim)   | 13.652 | 119  | 1099805  | 8.450  | ppbv# | 89       |
| 116) 1,2-Dichlorobenzene(sim)  | 14.141 | 146  | 716723   | 9.475  | ppbv  | 97       |
| 117) n-Butylbenzene(sim)       | 14.048 | 91   | 895865   | 8.404  | ppbv  | 93       |
| 118) 1,2,4-Trichlorobenzene... | 15.307 | 180  | 449197   | 7.613  | ppbv# | 86       |
| 119) Hexachlorobutadiene(sim)  | 15.309 | 225  | 513220   | 8.300  | ppbv# | 80       |

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
Data File : 1208\_04.D  
Acq On : 9 Dec 2019 12:55 am  
Operator : Keith  
Client ID : CE81151 LCS  
Lab ID : CE81151 LCS  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 09:48:47 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Mon Dec 09 09:45:44 2019  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

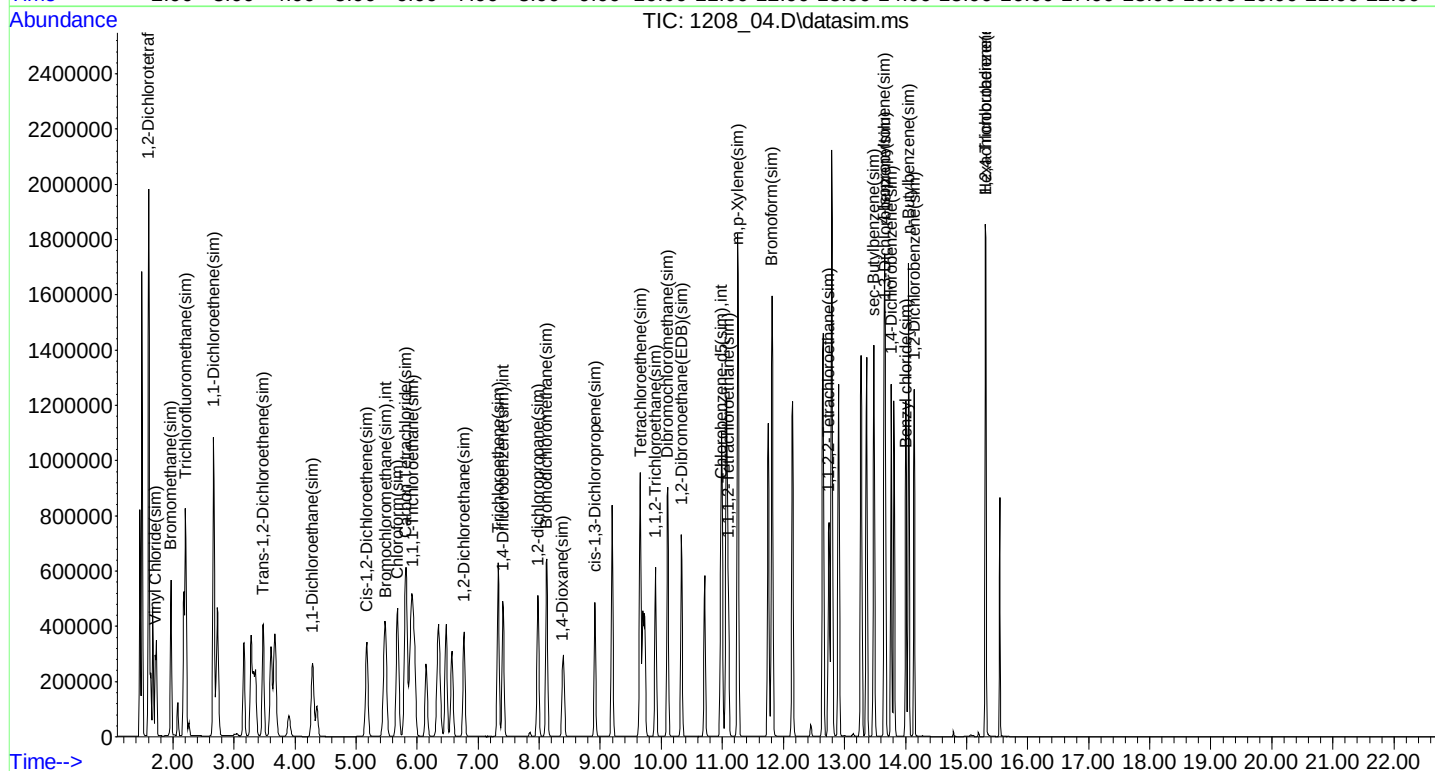
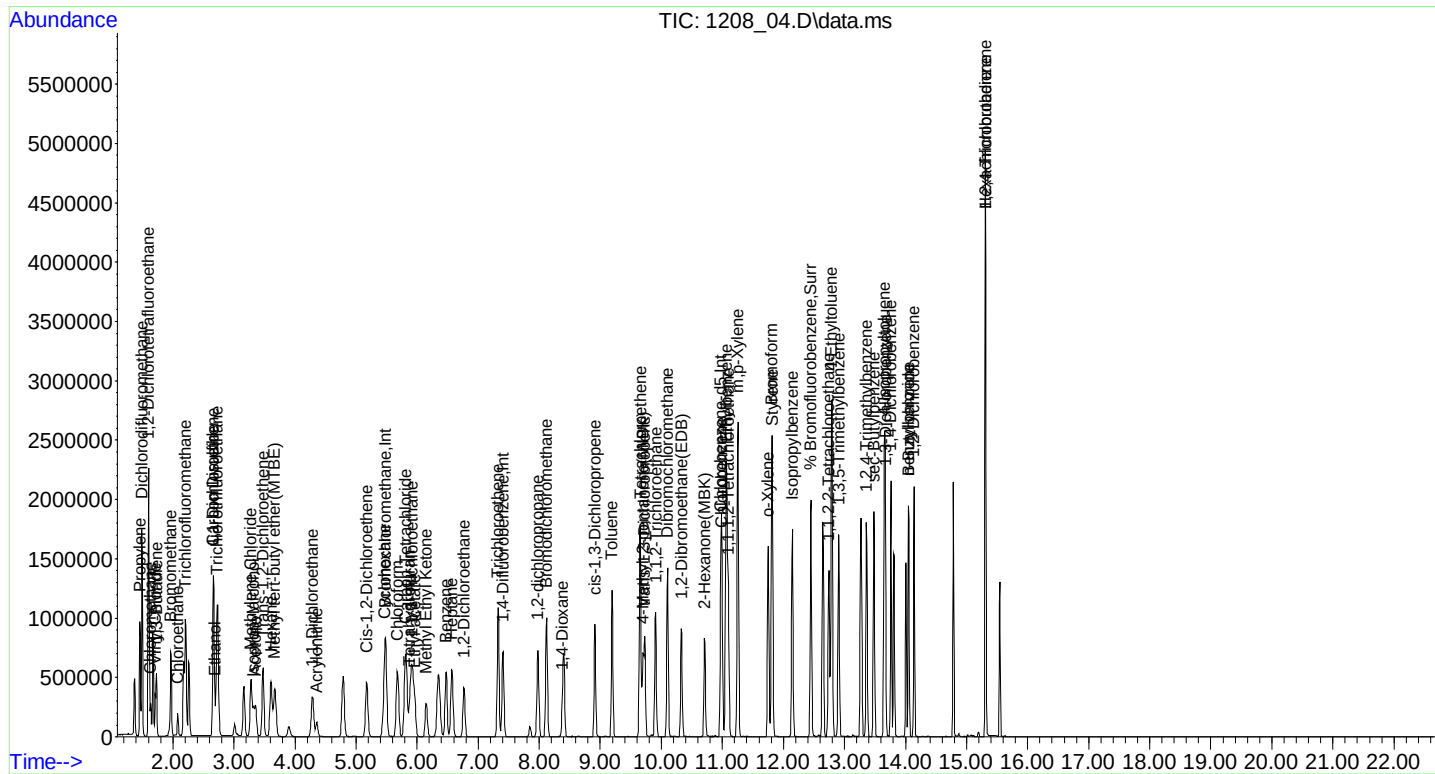
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed



(QT Reviewed)

```
Data Path : H:\AIR2019\CHEM24\12DEC\08\  
Data File : 1208_04.D  
Acq On : 9 Dec 2019 12:55 am  
Operator : Keith  
Client ID : CE81151 LCS  
Lab ID : CE81151 LCS  
ALS Vial : 4 Sample Multiplier: 1
```

Quant Time: Dec 09 09:48:47 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Mon Dec 09 09:45:44 2019  
Response via : Initial Calibration



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

|              |                 |                  |                          |                                |
|--------------|-----------------|------------------|--------------------------|--------------------------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> | CE81151 BLANK                  |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CE81151 BL</u>        |                                |
| Canister:    | <u>BL</u>       | Lab File ID:     | <u>1208_07.D</u>         |                                |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u>RTX-VMS</u>           | Date Received: <u>12/05/19</u> |
| Purge Volume | <u>200</u> (cc) | Date Analyzed:   | <u>12/09/19</u>          |                                |
| Matrix:      | <u>AIR</u>      | Dilution Factor: | <u>1</u>                 |                                |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                           | CONC. | Q | MDL   | PQL   | R |
|------------|------------------------------------|-------|---|-------|-------|---|
| 115-07-1   | Propylene                          | 0.580 | U | 0.580 | 0.580 | r |
| 75-71-8    | Dichlorodifluoromethane            | 0.200 | U | 0.200 | 0.200 | r |
| 74-87-3    | Chloromethane                      | 0.480 | U | 0.480 | 0.480 | r |
| 106-99-0   | 1,3-Butadiene                      | 0.450 | U | 0.450 | 0.450 | r |
| 75-00-3    | Chloroethane                       | 0.380 | U | 0.380 | 0.380 | r |
| 64-17-5    | Ethanol                            | 0.530 | U | 0.530 | 0.530 | r |
| 67-64-1    | Acetone                            | 0.420 | U | 0.420 | 0.420 | r |
| 67-63-0    | Isopropylalcohol                   | 0.410 | U | 0.410 | 0.410 | r |
| 107-13-1   | Acrylonitrile                      | 0.460 | U | 0.460 | 0.460 | r |
| 75-09-2    | Methylene Chloride                 | 0.860 | U | 0.860 | 0.860 | r |
| 75-15-0    | Carbon Disulfide                   | 0.320 | U | 0.320 | 0.320 | r |
| 1634-04-4  | Methyl tert-butyl ether(MTBE)      | 0.280 | U | 0.280 | 0.280 | r |
| 78-93-3    | Methyl Ethyl Ketone                | 0.340 | U | 0.340 | 0.340 | r |
| 110-54-3   | Hexane                             | 0.280 | U | 0.280 | 0.280 | r |
| 141-78-6   | Ethyl acetate                      | 0.280 | U | 0.280 | 0.280 | r |
| 109-99-9   | Tetrahydrofuran                    | 0.340 | U | 0.340 | 0.340 | r |
| 71-43-2    | Benzene                            | 0.310 | U | 0.310 | 0.310 | r |
| 110-82-7   | Cyclohexane                        | 0.290 | U | 0.290 | 0.290 | r |
| 142-82-5   | Heptane                            | 0.240 | U | 0.240 | 0.240 | r |
| 108-10-1   | 4-Methyl-2-pentanone(MIBK)         | 0.240 | U | 0.240 | 0.240 | r |
| 10061-02-6 | trans-1,3-Dichloropropene          | 0.220 | U | 0.220 | 0.220 | r |
| 108-88-3   | Toluene                            | 0.270 | U | 0.270 | 0.270 | r |
| 591-78-6   | 2-Hexanone(MBK)                    | 0.240 | U | 0.240 | 0.240 | r |
| 108-90-7   | Chlorobenzene                      | 0.220 | U | 0.220 | 0.220 | r |
| 100-41-4   | Ethylbenzene                       | 0.230 | U | 0.230 | 0.230 | r |
| 100-42-5   | Styrene                            | 0.230 | U | 0.230 | 0.230 | r |
| 95-47-6    | o-Xylene                           | 0.230 | U | 0.230 | 0.230 | r |
| 98-82-8    | Isopropylbenzene                   | 0.200 | U | 0.200 | 0.200 | r |
| 622-96-8   | 4-Ethyltoluene                     | 0.200 | U | 0.200 | 0.200 | r |
| 108-67-8   | 1,3,5-Trimethylbenzene             | 0.200 | U | 0.200 | 0.200 | r |
| 95-63-6    | 1,2,4-Trimethylbenzene             | 0.200 | U | 0.200 | 0.200 | r |
| 76-14-2    | 1,2-Dichlorotetrafluoroethane(sim) | 0.140 | U | 0.140 | 0.140 | r |
| 75-01-4    | Vinyl Chloride(sim)                | 0.078 | U | 0.078 | 0.078 | r |
| 74-83-9    | Bromomethane(sim)                  | 0.260 | U | 0.260 | 0.260 | r |
| 75-69-4    | Trichlorofluoromethane(sim)        | 0.180 | U | 0.180 | 0.180 | r |
| 71-55-6    | 1,1,1-Trichloroethane(sim)         | 0.180 | U | 0.180 | 0.180 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

|              |                 |                  |                          |                 |
|--------------|-----------------|------------------|--------------------------|-----------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> | CE81151 BLANK   |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CE81151 BL</u>        |                 |
| Canister:    | <u>BL</u>       | Lab File ID:     | <u>1208_07.D</u>         |                 |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u>RTX-VMS</u>           | Date Received:  |
|              |                 |                  |                          | <u>12/05/19</u> |
| Purge Volume | <u>200</u>      | (cc)             | Date Analyzed:           | <u>12/09/19</u> |
| Matrix:      | <u>AIR</u>      | Dilution Factor: | <u>1</u>                 |                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|-------------|--------------------------------|-------|---|-------|-------|---|
| 56-23-5     | Carbon Tetrachloride(sim)      | 0.032 | U | 0.032 | 0.032 | r |
| 75-35-4     | 1,1-Dichloroethene(sim)        | 0.050 | U | 0.050 | 0.050 | r |
| 76-13-1     | Trichlorotrifluoroethane(sim)  | 0.130 | U | 0.130 | 0.130 | r |
| 156-60-5    | Trans-1,2-Dichloroethene(sim)  | 0.250 | U | 0.250 | 0.250 | r |
| 75-34-3     | 1,1-Dichloroethane(sim)        | 0.250 | U | 0.250 | 0.250 | r |
| 156-59-2    | Cis-1,2-Dichloroethene(sim)    | 0.256 | U | 0.256 | 0.256 | r |
| 67-66-3     | Chloroform(sim)                | 0.200 | U | 0.200 | 0.200 | r |
| 107-06-2    | 1,2-Dichloroethane(sim)        | 0.250 | U | 0.250 | 0.250 | r |
| 78-87-5     | 1,2-dichloropropane(sim)       | 0.220 | U | 0.220 | 0.220 | r |
| 75-27-4     | Bromodichloromethane(sim)      | 0.150 | U | 0.150 | 0.150 | r |
| 79-01-6     | Trichloroethene(sim)           | 0.037 | U | 0.037 | 0.037 | r |
| 123-91-1    | 1,4-Dioxane(sim)               | 0.280 | U | 0.280 | 0.280 | r |
| 10061-01-5  | cis-1,3-Dichloropropene(sim)   | 0.220 | U | 0.220 | 0.220 | r |
| 79-00-5     | 1,1,2-Trichloroethane(sim)     | 0.180 | U | 0.180 | 0.180 | r |
| 124-48-1    | Dibromochloromethane(sim)      | 0.120 | U | 0.120 | 0.120 | r |
| 106-93-4    | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 127-18-4    | Tetrachloroethene(sim)         | 0.037 | U | 0.037 | 0.037 | r |
| 75-25-2     | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6    | 1,1,1,2-Tetrachloroethane(sim) | 0.150 | U | 0.150 | 0.150 | r |
| 179601-23-1 | m,p-Xylene(sim)                | 0.230 | U | 0.230 | 0.230 | r |
| 79-34-5     | 1,1,2,2-Tetrachloroethane(sim) | 0.150 | U | 0.150 | 0.150 | r |
| 100-44-7    | Benzyl chloride(sim)           | 0.190 | U | 0.190 | 0.190 | r |
| 541-73-1    | 1,3-Dichlorobenzene(sim)       | 0.170 | U | 0.170 | 0.170 | r |
| 106-46-7    | 1,4-Dichlorobenzene(sim)       | 0.170 | U | 0.170 | 0.170 | r |
| 135-98-8    | sec-Butylbenzene(sim)          | 0.180 | U | 0.180 | 0.180 | r |
| 99-87-6     | 4-Isopropyltoluene(sim)        | 0.180 | U | 0.180 | 0.180 | r |
| 95-50-1     | 1,2-Dichlorobenzene(sim)       | 0.170 | U | 0.170 | 0.170 | r |
| 104-51-8    | n-Butylbenzene(sim)            | 0.180 | U | 0.180 | 0.180 | r |
| 120-82-1    | 1,2,4-Trichlorobenzene(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 87-68-3     | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
Data File : 1208\_07.D  
Acq On : 9 Dec 2019 2:32 am  
Operator : Keith  
Client ID : CE81151 BLANK  
Lab ID : CE81151 BLANK  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 09:48:56 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
Quant Title : VOA Standards for 5 point calibration  
Qlast Update : Mon Dec 09 09:45:44 2019  
Response via : Initial Calibration

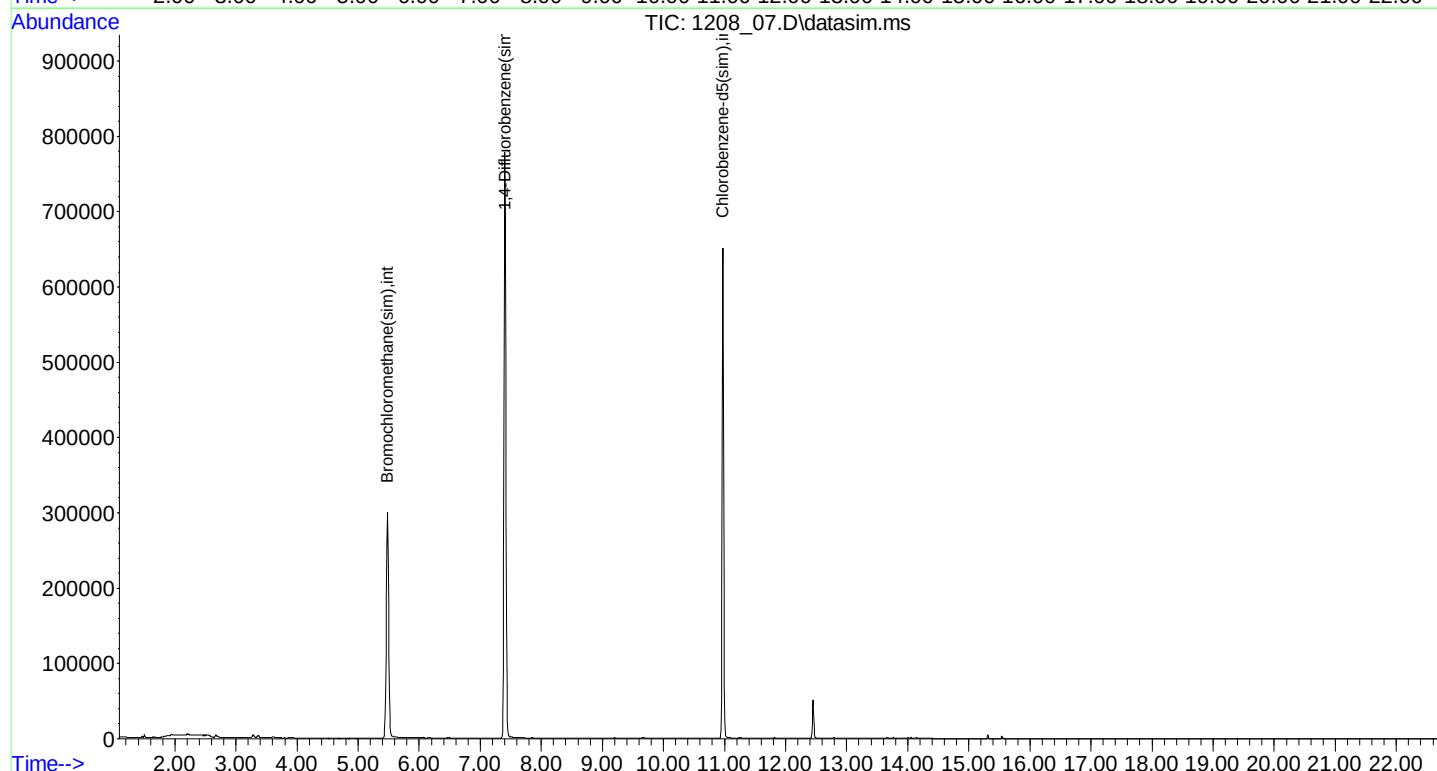
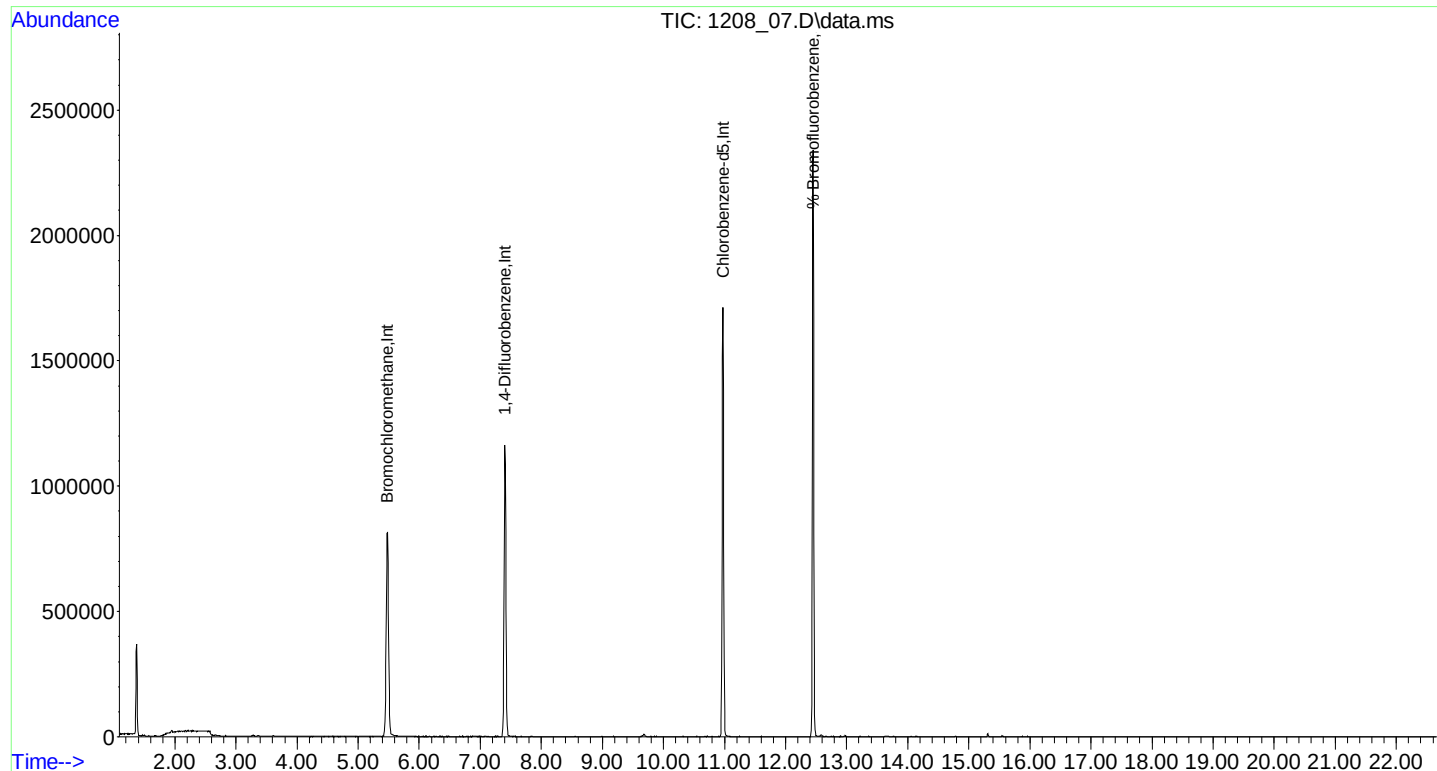
| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 5.482  | 130   | 418981   | 10.000   | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.401  | 114   | 1033780  | 10.000   | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.974 | 82    | 508460   | 10.000   | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.478  | 130   | 433132   | 10.000   | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.404  | 114   | 1134246  | 10.000   | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.970 | 82    | 556729   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 62) % Bromofluorobenzene     | 12.451 | 95    | 683284   | 8.731    | ppbv  | 0.00     |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 87.30%   |

| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
Data File : 1208\_07.D  
Acq On : 9 Dec 2019 2:32 am  
Operator : Keith  
Client ID : CE81151 BLANK  
Lab ID : CE81151 BLANK  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 09:48:56 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1207.M  
Quant Title : VOA Standards for 5 point calibration  
Last Update : Mon Dec 09 09:45:44 2019  
Response via : Initial Calibration



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

HAIR SALON VP-4 DUP

|              |          |                  |                   |
|--------------|----------|------------------|-------------------|
| Client:      | CEG      | Lab:             | Phoenix Env. Labs |
| SDG No.:     | GCE81145 | Lab Sample ID:   | CE81151 DUP       |
| Canister:    | 28581    | Lab File ID:     | 1208_13.D         |
| Instrument:  | CHEM24   | Column:          | RTX-VMS           |
| Purge Volume | 200 (cc) | Date Received:   | 12/05/19          |
| Matrix:      | AIR      | Date Analyzed:   | 12/09/19          |
|              |          | Dilution Factor: | 1                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                           | CONC. | Q | MDL   | PQL   | R |
|-------------|------------------------------------|-------|---|-------|-------|---|
| 115-07-1    | Propylene                          | 0.581 | U | 0.581 | 0.581 | r |
| 75-71-8     | Dichlorodifluoromethane            | 0.620 |   | 0.202 | 0.202 | r |
| 74-87-3     | Chloromethane                      | 0.516 |   | 0.485 | 0.485 | r |
| 106-99-0    | 1,3-Butadiene                      | 0.452 | U | 0.452 | 0.452 | r |
| 75-00-3     | Chloroethane                       | 0.379 | U | 0.379 | 0.379 | r |
| 64-17-5     | Ethanol                            | 78.0  | S | 0.531 | 0.531 | r |
| 67-64-1     | Acetone                            | 14.3  | S | 0.421 | 0.421 | r |
| 75-69-4     | Trichlorofluoromethane             | 0.269 |   | 0.178 | 0.178 | r |
| 67-63-0     | Isopropylalcohol                   | 1.77  | S | 0.407 | 0.407 | r |
| 107-13-1    | Acrylonitrile                      | 0.461 | U | 0.461 | 0.461 | r |
| 75-09-2     | Methylene Chloride                 | 1.98  | S | 0.864 | 0.864 | r |
| 75-15-0     | Carbon Disulfide                   | 0.321 | U | 0.321 | 0.321 | r |
| 1634-04-4   | Methyl tert-butyl ether(MTBE)      | 0.278 | U | 0.278 | 0.278 | r |
| 78-93-3     | Methyl Ethyl Ketone                | 1.45  |   | 0.339 | 0.339 | r |
| 110-54-3    | Hexane                             | 1.13  | S | 0.284 | 0.284 | r |
| 141-78-6    | Ethyl acetate                      | 0.315 |   | 0.278 | 0.278 | r |
| 109-99-9    | Tetrahydrofuran                    | 1.91  |   | 0.339 | 0.339 | r |
| 71-43-2     | Benzene                            | 0.313 | U | 0.313 | 0.313 | r |
| 110-82-7    | Cyclohexane                        | 0.291 | U | 0.291 | 0.291 | r |
| 142-82-5    | Heptane                            | 0.244 | U | 0.244 | 0.244 | r |
| 108-10-1    | 4-Methyl-2-pentanone(MIBK)         | 0.244 | U | 0.244 | 0.244 | r |
| 10061-02-6  | trans-1,3-Dichloropropene          | 0.220 | U | 0.220 | 0.220 | r |
| 108-88-3    | Toluene                            | 4.04  |   | 0.266 | 0.266 | r |
| 591-78-6    | 2-Hexanone(MBK)                    | 0.244 | U | 0.244 | 0.244 | r |
| 127-18-4    | Tetrachloroethene                  | 1.55  |   | 0.037 | 0.037 | r |
| 108-90-7    | Chlorobenzene                      | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4    | Ethylbenzene                       | 0.422 |   | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene                         | 1.54  |   | 0.230 | 0.230 | r |
| 100-42-5    | Styrene                            | 0.483 |   | 0.235 | 0.235 | r |
| 95-47-6     | o-Xylene                           | 0.560 |   | 0.230 | 0.230 | r |
| 98-82-8     | Isopropylbenzene                   | 0.935 |   | 0.204 | 0.204 | r |
| 622-96-8    | 4-Ethyltoluene                     | 0.204 | U | 0.204 | 0.204 | r |
| 108-67-8    | 1,3,5-Trimethylbenzene             | 0.204 | U | 0.204 | 0.204 | r |
| 95-63-6     | 1,2,4-Trimethylbenzene             | 0.204 | U | 0.204 | 0.204 | r |
| 76-14-2     | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U | 0.143 | 0.143 | r |
| 75-01-4     | Vinyl Chloride(sim)                | 0.078 | U | 0.078 | 0.078 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

HAIR SALON VP-4 DUP

|              |          |                  |                   |
|--------------|----------|------------------|-------------------|
| Client:      | CEG      | Lab:             | Phoenix Env. Labs |
| SDG No.:     | GCE81145 | Lab Sample ID:   | CE81151 DUP       |
| Canister:    | 28581    | Lab File ID:     | 1208_13.D         |
| Instrument:  | CHEM24   | Column:          | RTX-VMS           |
|              |          | Date Received:   | 12/05/19          |
| Purge Volume | 200 (cc) | Date Analyzed:   | 12/09/19          |
| Matrix:      | AIR      | Dilution Factor: | 1                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|------------|--------------------------------|-------|---|-------|-------|---|
| 74-83-9    | Bromomethane(sim)              | 0.258 | U | 0.258 | 0.258 | r |
| 71-55-6    | 1,1,1-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 56-23-5    | Carbon Tetrachloride(sim)      | 0.073 |   | 0.032 | 0.032 | r |
| 75-35-4    | 1,1-Dichloroethene(sim)        | 0.051 | U | 0.051 | 0.051 | r |
| 76-13-1    | Trichlorotrifluoroethane(sim)  | 0.131 | U | 0.131 | 0.131 | r |
| 156-60-5   | Trans-1,2-Dichloroethene(sim)  | 0.252 | U | 0.252 | 0.252 | r |
| 75-34-3    | 1,1-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 156-59-2   | Cis-1,2-Dichloroethene(sim)    | 0.051 | U | 0.051 | 0.051 | r |
| 67-66-3    | Chloroform(sim)                | 0.205 | U | 0.205 | 0.205 | r |
| 107-06-2   | 1,2-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 78-87-5    | 1,2-dichloropropane(sim)       | 0.217 | U | 0.217 | 0.217 | r |
| 75-27-4    | Bromodichloromethane(sim)      | 0.149 | U | 0.149 | 0.149 | r |
| 79-01-6    | Trichloroethene(sim)           | 0.113 |   | 0.037 | 0.037 | r |
| 123-91-1   | 1,4-Dioxane(sim)               | 0.278 | U | 0.278 | 0.278 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim)   | 0.220 | U | 0.220 | 0.220 | r |
| 79-00-5    | 1,1,2-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1   | Dibromochloromethane(sim)      | 0.117 | U | 0.117 | 0.117 | r |
| 106-93-4   | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2    | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6   | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 79-34-5    | 1,1,2,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 100-44-7   | Benzyl chloride(sim)           | 0.193 | U | 0.193 | 0.193 | r |
| 541-73-1   | 1,3-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 106-46-7   | 1,4-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 135-98-8   | sec-Butylbenzene(sim)          | 0.182 | U | 0.182 | 0.182 | r |
| 99-87-6    | 4-Isopropyltoluene(sim)        | 0.182 | U | 0.182 | 0.182 | r |
| 95-50-1    | 1,2-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 104-51-8   | n-Butylbenzene(sim)            | 0.182 | U | 0.182 | 0.182 | r |
| 120-82-1   | 1,2,4-Trichlorobenzene(sim)    | 0.135 | U | 0.135 | 0.135 | r |
| 87-68-3    | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |
|            |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

## Quantitation Report (No Status)

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
 Data File : 1208\_13.D  
 Acq On : 9 Dec 2019 11:59 am  
 Operator : Keith  
 Client ID : HAIR SALON VP-4 DUP  
 Lab ID : CE81151 DUP  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 09 12:33:28 2019  
 Quant Title :  
 QLast Update : Wed Dec 11 09:11:44 2019  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 5.504  | 130   | 385079   | 10.000   | ng    | 0.03     |
| 36) 1,4-Difluorobenzene       | 7.422  | 114   | 1075810  | 10.000   | ng    | 0.02     |
| 53) Chlorobenzene-d5          | 10.981 | 82    | 561243   | 10.000   | ng    | 0.01     |
| 80) Bromochloromethane(sim)   | 5.499  | 130   | 396311   | 10.000   | ng    | # 0.02   |
| 94) 1,4-Difluorobenzene(sim)  | 7.418  | 114   | 1182210  | 10.000   | ng    | # 0.02   |
| 104) Chlorobenzene-d5(sim)    | 10.984 | 82    | 609393   | 10.000   | ng    | 0.01     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 62) % Bromofluorobenzene      | 12.458 | 95    | 784630   | 9.083    | ppbv  | 0.01     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =     | 90.80%   |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 3) Dichlorodifluoromethane    | 1.499  | 101   | 10568    | 0.620    | ppbv# | 75       |
| 4) Chloromethane              | 1.643  | 50    | 16881    | 0.516    | ppbv  | 95       |
| 10) Ethanol                   | 2.704  | 45    | 800284   | 77.964   | ppbv# | 60       |
| 12) Acetone                   | 3.361  | 43    | 870234   | 14.316   | ppbv  | 92       |
| 13) Trichlorofluoromethane    | 2.218  | 101   | 38585    | 0.269    | ppbv# | 84       |
| 14) Isopropylalcohol          | 3.340  | 45    | 103844   | 1.774    | ppbv# | 1        |
| 17) Methylene Chloride        | 3.292  | 49    | 86666    | 1.977    | ppbv# | 77       |
| 25) Methyl Ethyl Ketone       | 6.167  | 43    | 91523    | 1.445    | ppbv# | 49       |
| 27) Hexane                    | 3.621  | 57    | 47571    | 1.127    | ppbv# | 70       |
| 29) Ethyl acetate             | 5.972  | 43    | 19193    | 0.315    | ppbv# | 57       |
| 30) Tetrahydrofuran           | 5.907  | 42    | 43603    | 1.915    | ppbv  | 100      |
| 34) Carbon Tetrachloride      | 5.835  | 117   | 8195     | 0.073    | ppbv  | 98       |
| 39) Trichloroethene           | 7.347  | 130   | 5815     | 0.105    | ppbv  | 91       |
| 48) Toluene                   | 9.207  | 91    | 449400   | 4.039    | ppbv  | 91       |
| 52) Tetrachloroethene         | 9.662  | 166   | 122340   | 1.546    | ppbv  | 93       |
| 56) Ethylbenzene              | 11.077 | 91    | 55142    | 0.422    | ppbv  | 89       |
| 57) m, p-Xylene               | 11.262 | 91    | 142895   | 1.537    | ppbv# | 92       |
| 59) Styrene                   | 11.825 | 104   | 34090    | 0.483    | ppbv# | 35       |
| 61) o-Xylene                  | 11.763 | 91    | 60394    | 0.560    | ppbv# | 87       |
| 64) Isopropylbenzene          | 12.153 | 105   | 122738   | 0.935    | ppbv  | 97       |
| 84) Trichlorofluoromethane... | 2.214  | 101   | 39452    | 0.227    | ppbv  | 94       |
| 86) Carbon Tetrachloride(sim) | 5.838  | 117   | 8328     | 0.073    | ppbv  | 99       |
| 97) Trichloroethene(sim)      | 7.347  | 130   | 5815     | 0.113    | ppbv# | 81       |
| 103) Tetrachloroethene(sim)   | 9.662  | 166   | 121985   | 1.758    | ppbv# | 82       |
| 107) m, p-Xylene(sim)         | 11.262 | 91    | 142895   | 1.501    | ppbv# | 92       |

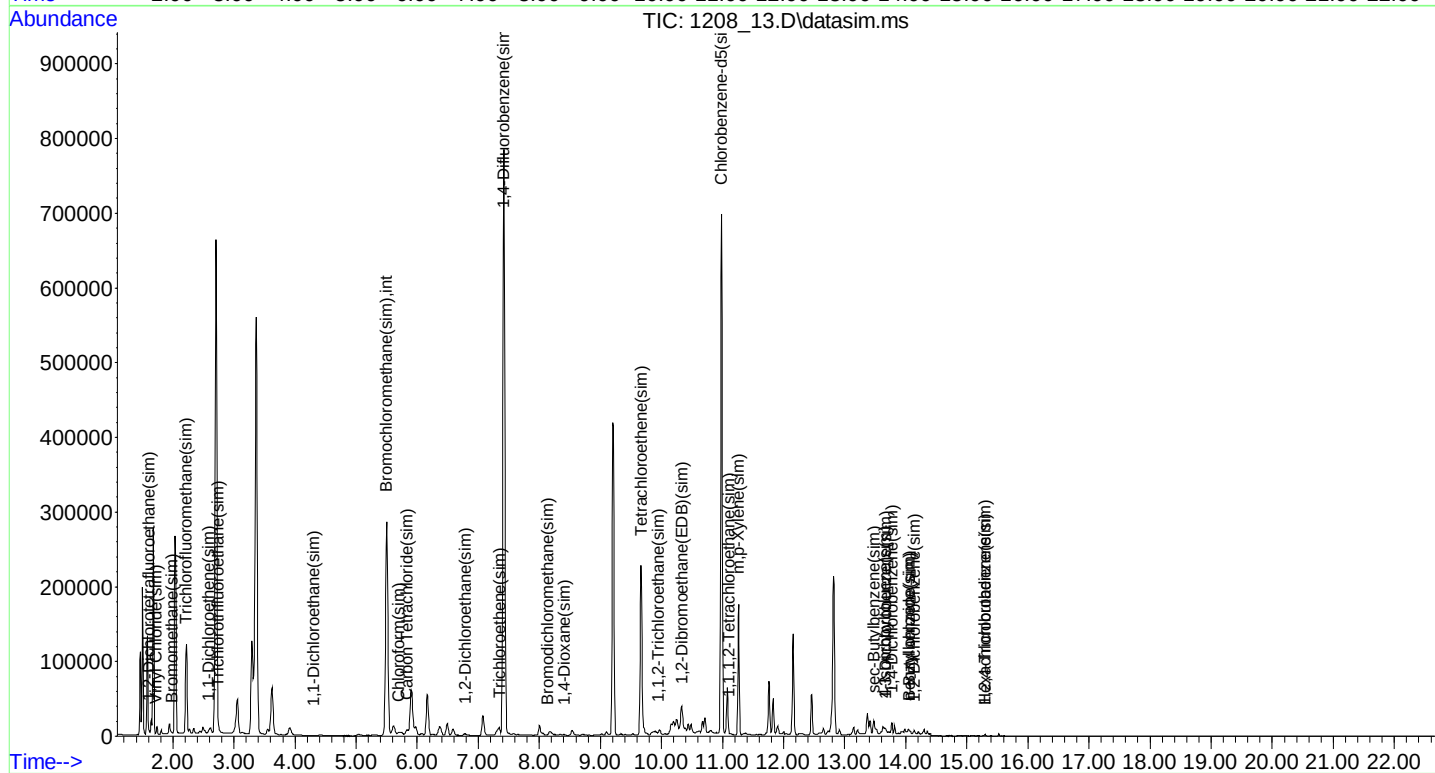
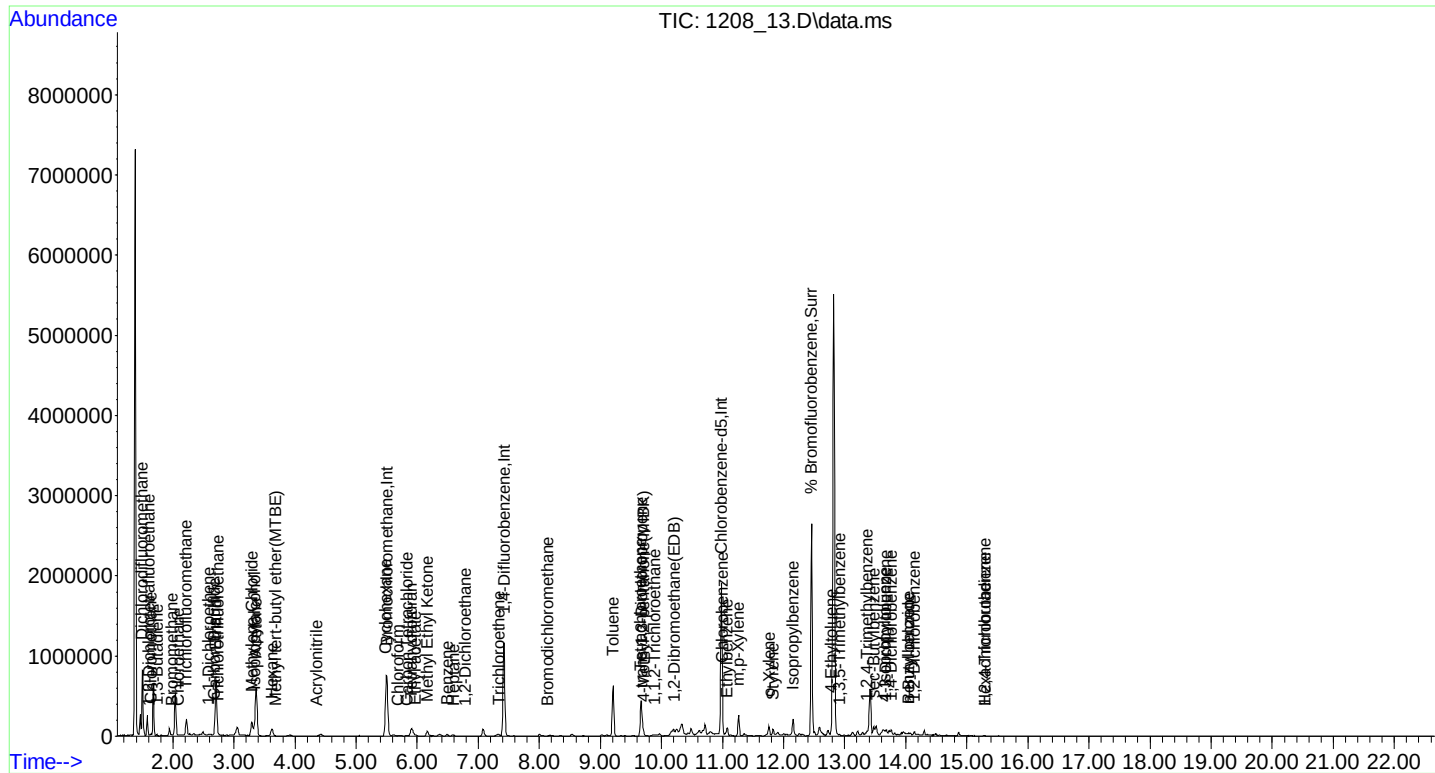
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

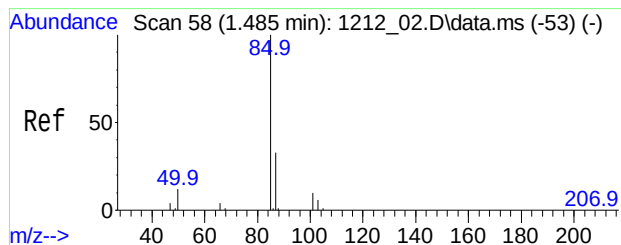


(No Status)

Data Path : H:\AIR2019\CHEM24\12DEC\08\  
Data File : 1208\_13.D  
Acq On : 9 Dec 2019 11:59 am  
Operator : Keith  
Client ID : HAIR SALON VP-4 DUP  
Lab ID : CE81151 DUP  
ALS Vial : 14 Sample Multiplier: 1

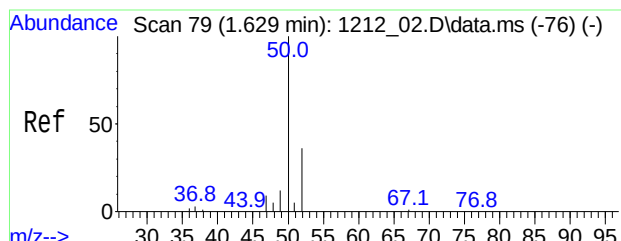
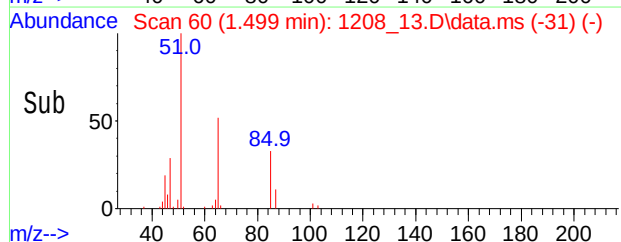
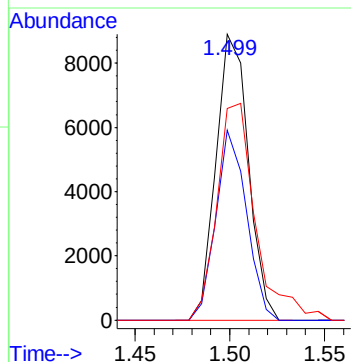
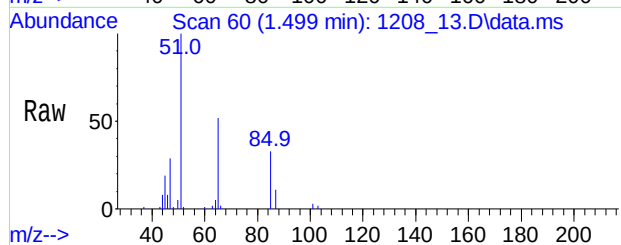
Quant Time: Dec 09 12:33:28 2019  
Quant Title :  
QLast Update : Wed Dec 11 09:11:44 2019  
Response via : Initial Calibration





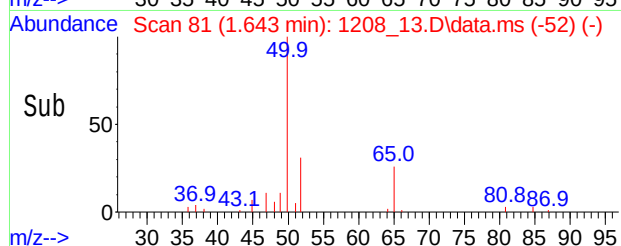
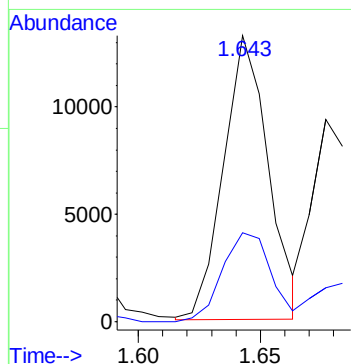
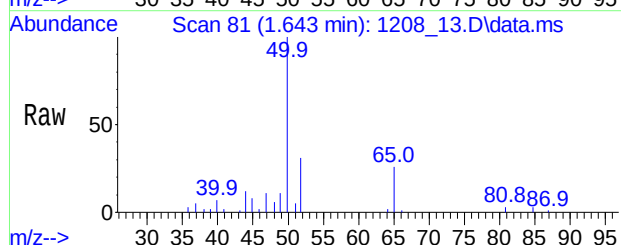
#3  
Dichlorodifluoromethane  
Conc: 8\$ 0.620 ppbv  
RT: 1.499 min Scan# 60  
Delta R.T. -0.000 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

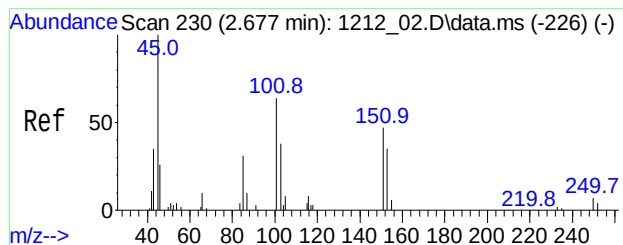
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 101     | 100   | 10568 |       |       |
| 103     | 62.9  | 55.7  | 83.5  |       |
| 66      | 90.3  | 45.1  | 67.7# |       |



#4  
Chloromethane  
Conc: 8\$ 0.516 ppbv  
RT: 1.643 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

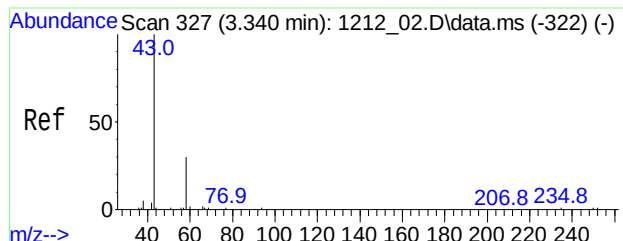
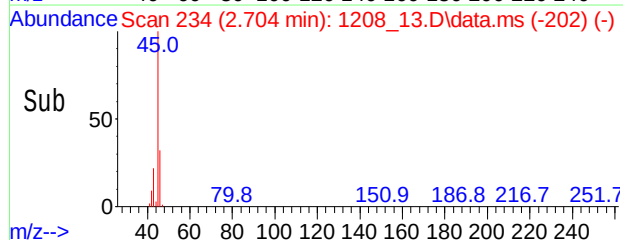
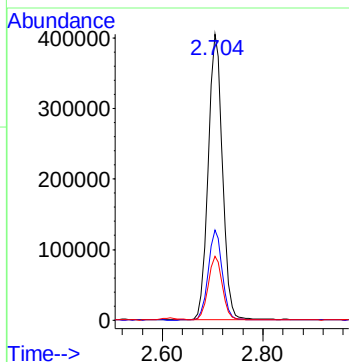
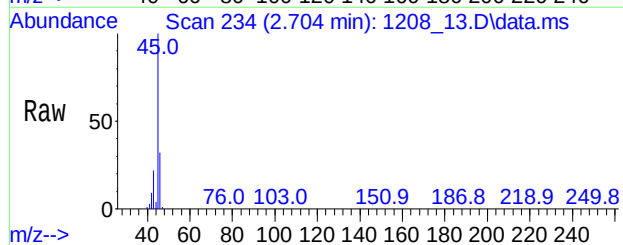
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 50      | 100   | 16881 |       |       |
| 52      | 33.7  | 11.1  | 51.1  |       |





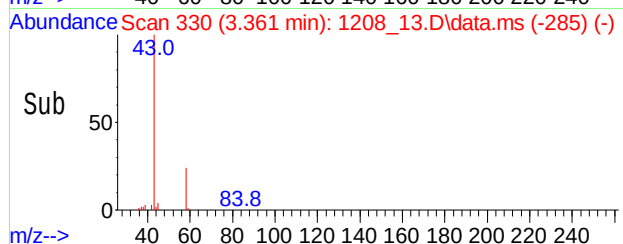
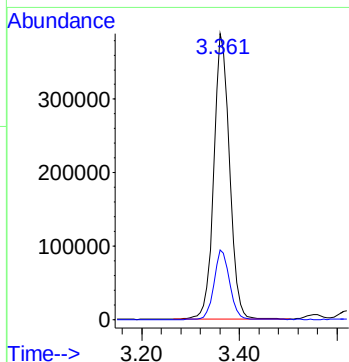
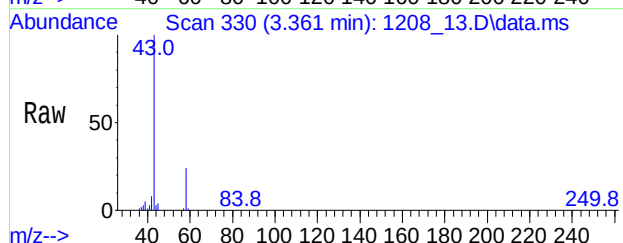
#10  
Ethanol  
Conc: 8\$ 77.964 ppbv  
RT: 2.704 min Scan# 234  
Delta R.T. 0.020 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

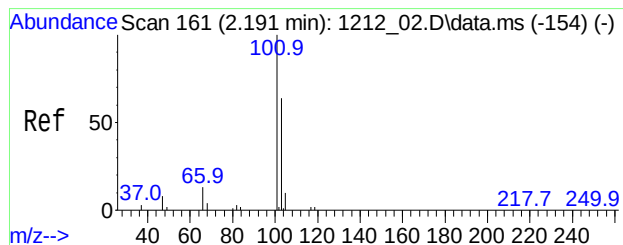
Tgt Ion: 45 Resp: 800284  
Ion Ratio Lower Upper  
45 100  
46 31.1 5.9 8.9#  
43 21.9 35.8 53.8#



#12  
Acetone  
Conc: 8\$ 14.316 ppbv  
RT: 3.361 min Scan# 330  
Delta R.T. 0.007 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

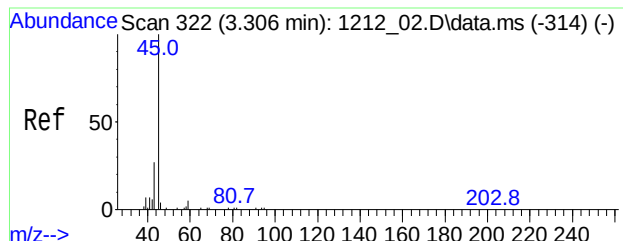
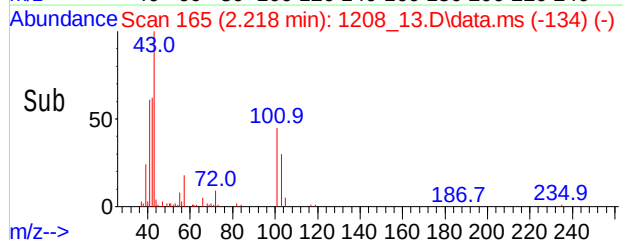
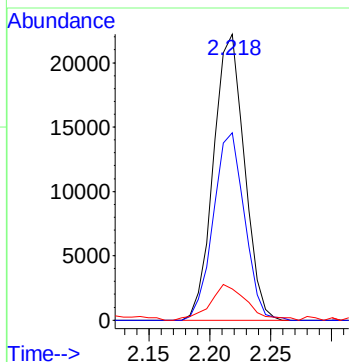
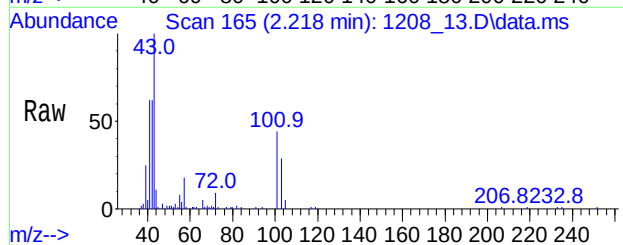
Tgt Ion: 43 Resp: 870234  
Ion Ratio Lower Upper  
43 100  
58 24.0 16.3 24.5





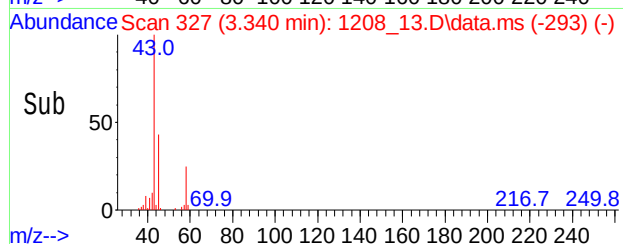
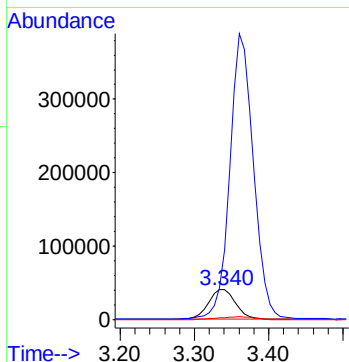
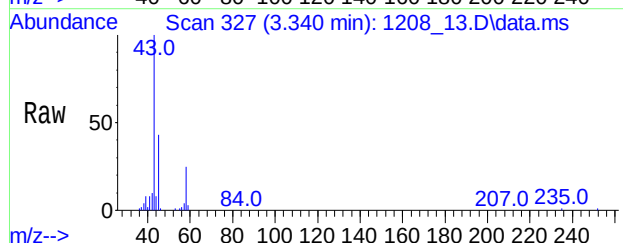
#13  
Trichlorofluoromethane  
Conc: 8\$ 0.269 ppbv  
RT: 2.218 min Scan# 165  
Delta R.T. 0.014 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

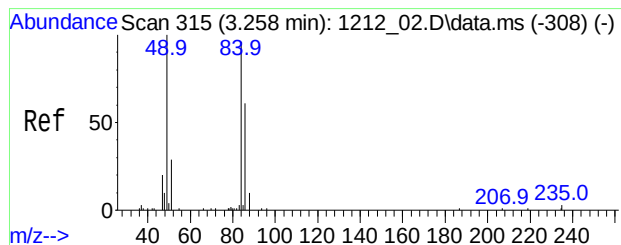
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 101     | 100   | 38585 |       |       |
| 103     | 66.3  | 60.1  | 90.1  |       |
| 66      | 14.5  | 25.4  | 38.0# |       |



#14  
Isopropylalcohol  
Conc: 8\$ 1.774 ppbv  
RT: 3.340 min Scan# 327  
Delta R.T. 0.034 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

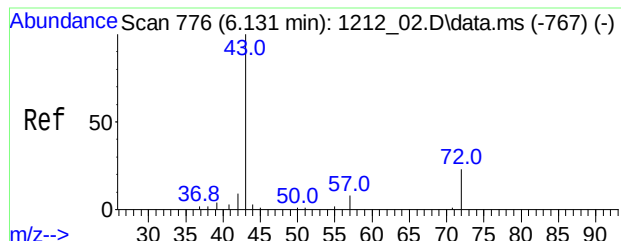
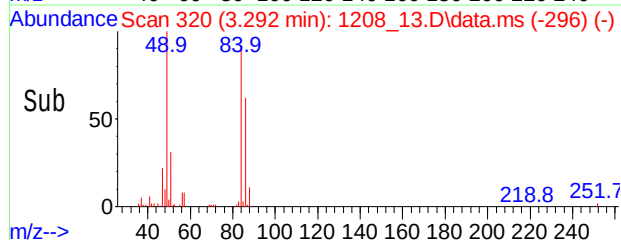
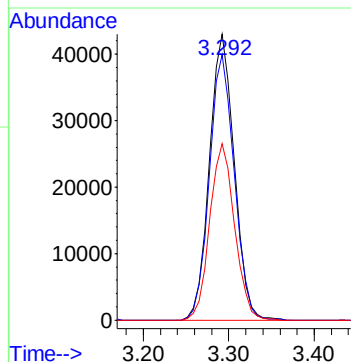
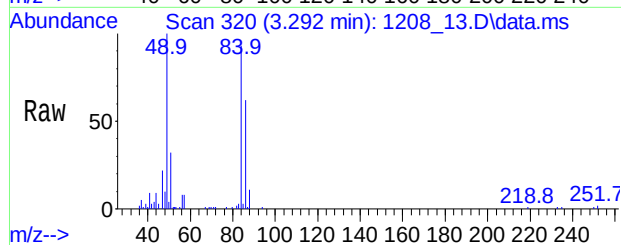
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 45      | 100   | 103844 |       |       |
| 43      | 837.7 | 29.8   | 44.8# |       |
| 59      | 11.3  | 0.0    | 0.0#  |       |





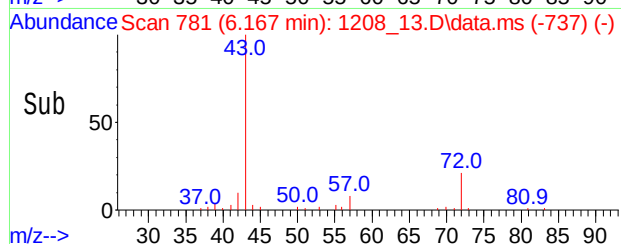
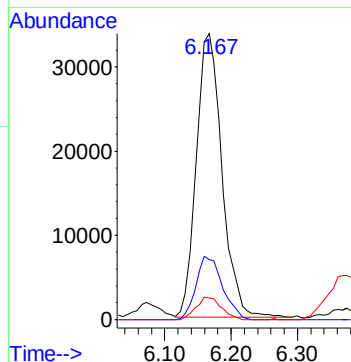
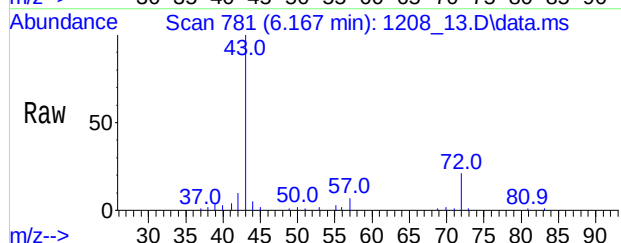
#17  
Methylene Chloride  
Conc: 8\$ 1.977 ppbv  
RT: 3.292 min Scan# 320  
Delta R.T. 0.013 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

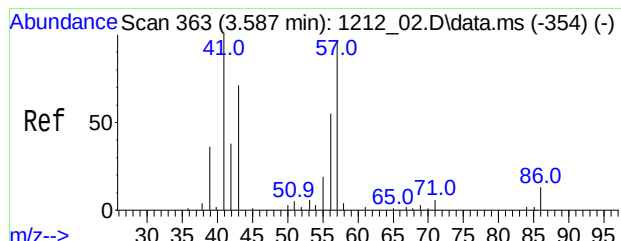
Tgt Ion: 49 Resp: 86666  
Ion Ratio Lower Upper  
49 100  
84 93.2 60.3 90.5#  
86 61.7 35.9 53.9#



#25  
Methyl Ethyl Ketone  
Conc: 8\$ 1.445 ppbv  
RT: 6.167 min Scan# 781  
Delta R.T. 0.015 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

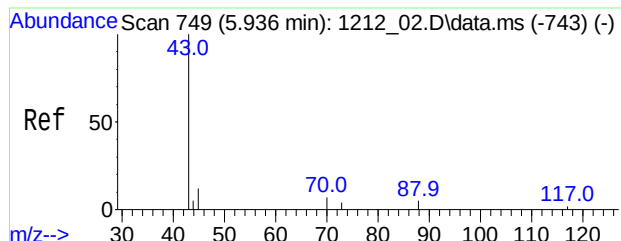
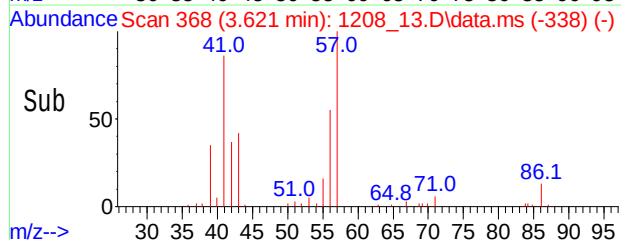
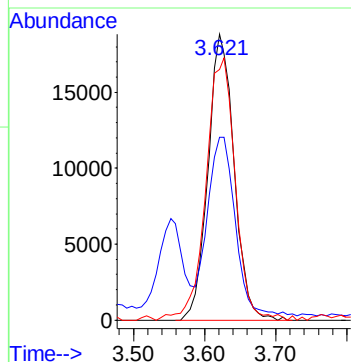
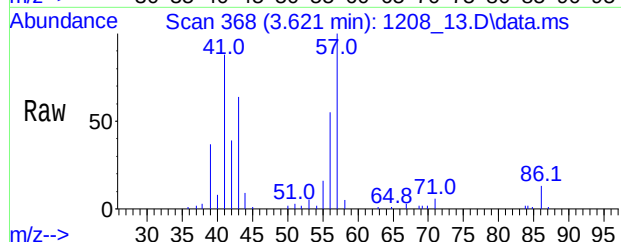
Tgt Ion: 43 Resp: 91523  
Ion Ratio Lower Upper  
43 100  
72 23.5 5.0 7.4#  
57 8.3 0.0 0.0#





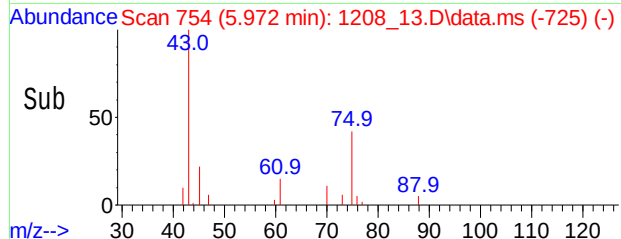
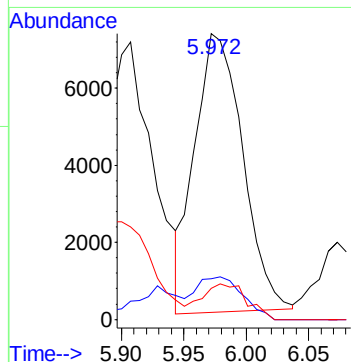
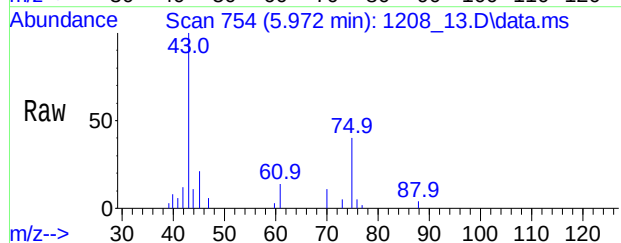
#27  
Hexane  
Conc: 8\$ 1.127 ppbv  
RT: 3.621 min Scan# 368  
Delta R.T. 0.007 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

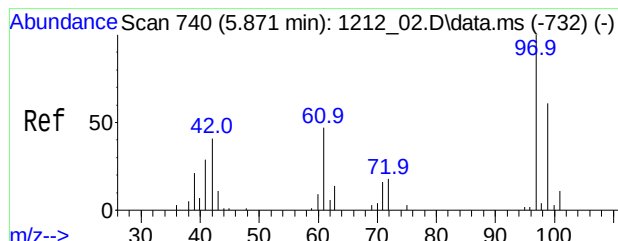
Tgt Ion: 57 Resp: 47571  
Ion Ratio Lower Upper  
57 100  
43 66.0 44.1 66.1  
41 102.9 118.4 177.6#



#29  
Ethyl acetate  
Conc: 8\$ 0.315 ppbv  
RT: 5.972 min Scan# 754  
Delta R.T. 0.007 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

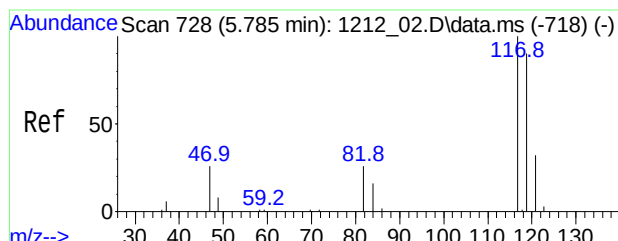
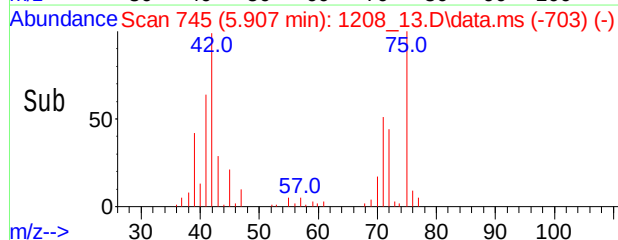
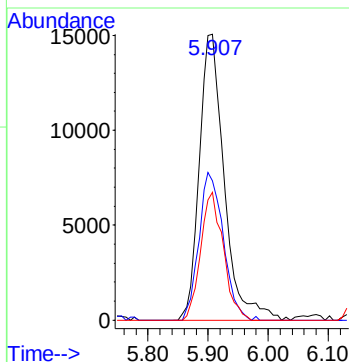
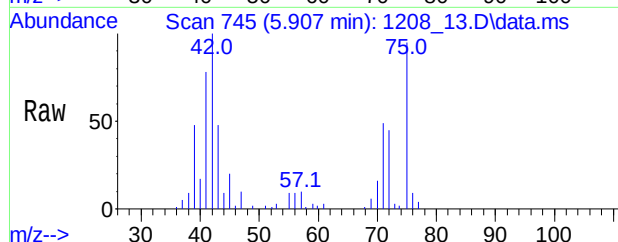
Tgt Ion: 43 Resp: 19193  
Ion Ratio Lower Upper  
43 100  
61 14.8 33.8 50.8#  
70 12.1 0.0 0.0#





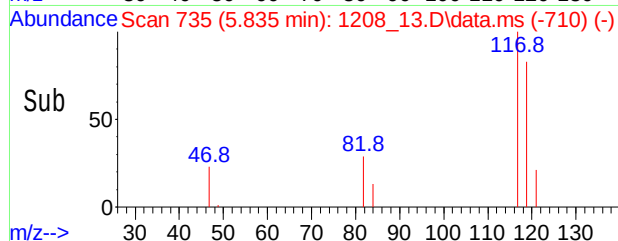
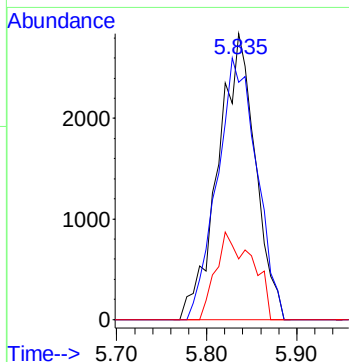
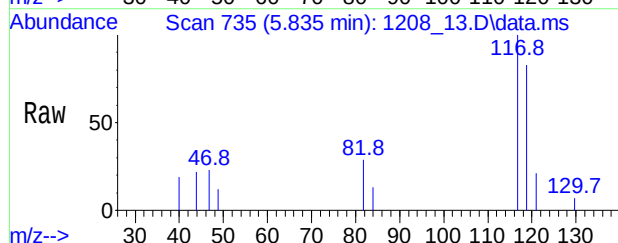
#30  
Tetrahydrofuran  
Conc: 8\$ 1.915 ppbv  
RT: 5.907 min Scan# 745  
Delta R.T. 0.000 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

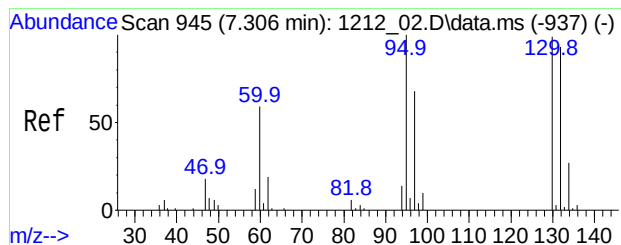
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 42      | 100   | 43603 |       |       |
| 71      | 50.2  | 0.0   | 0.0   | 0.0   |
| 72      | 40.7  | 0.0   | 0.0   | 0.0   |



#34  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 5.835 min Scan# 735  
Delta R.T. 0.029 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

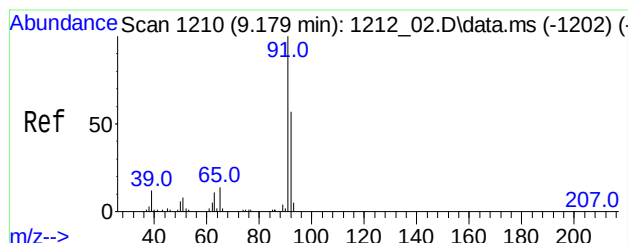
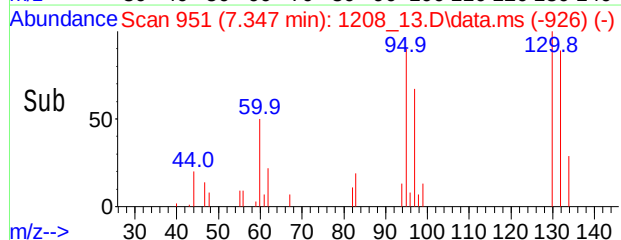
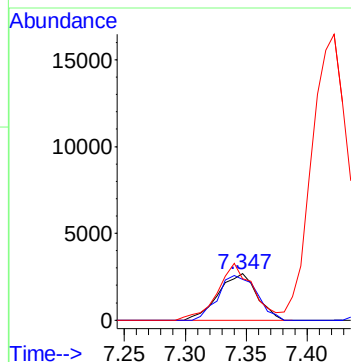
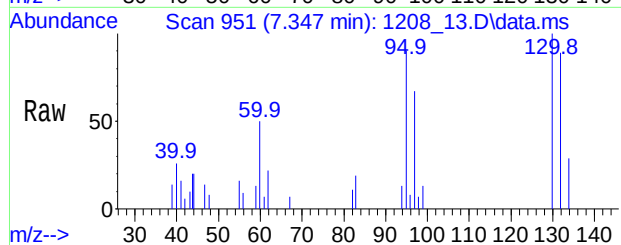
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 8195 |       |       |
| 119     | 96.8  | 75.6 | 115.6 |       |
| 121     | 29.6  | 11.2 | 51.2  |       |





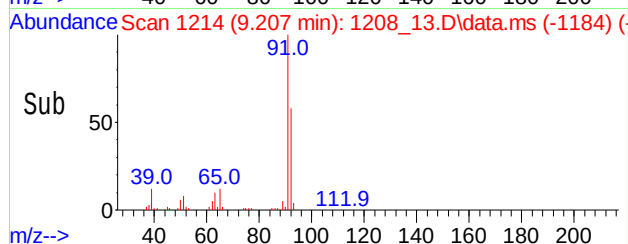
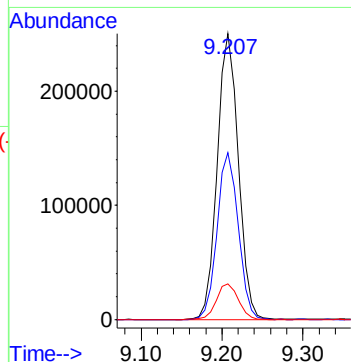
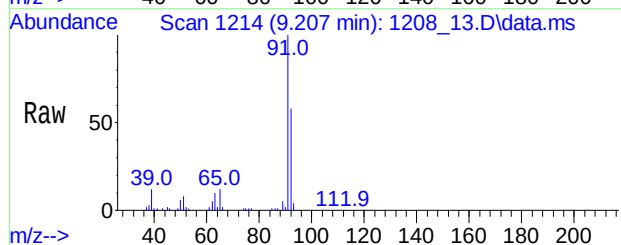
#39  
Trichloroethene  
Conc: 8\$ Below Cal  
RT: 7.347 min Scan# 951  
Delta R.T. 0.021 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 130     | 100   | 5815 |       |       |
| 132     | 96.7  | 84.4 | 126.6 |       |
| 95      | 112.6 | 0.0  | 0.0#  |       |

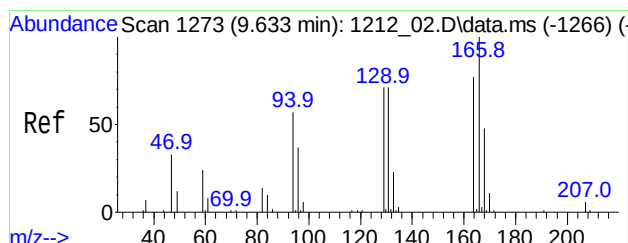


#48  
Toluene  
Conc: 8\$ 4.039 ppbv  
RT: 9.207 min Scan# 1214  
Delta R.T. 0.014 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 449400 |       |       |
| 92      | 58.3  | 52.6   | 79.0  |       |
| 65      | 12.9  | 0.0    | 0.0#  |       |

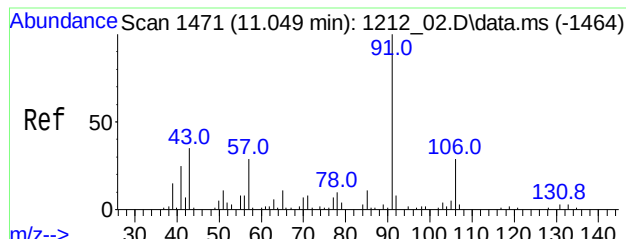
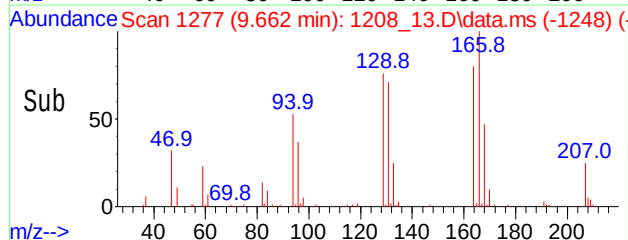
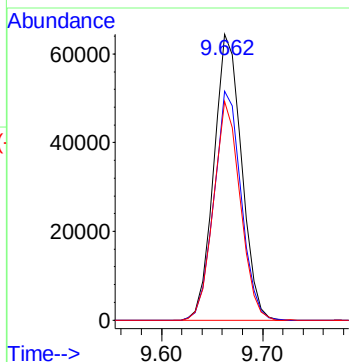
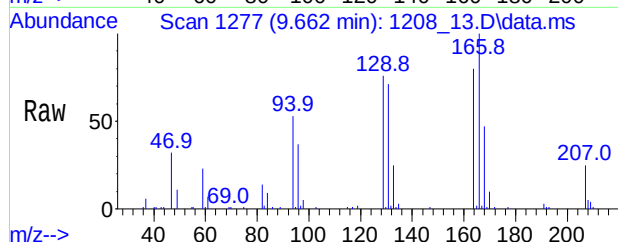






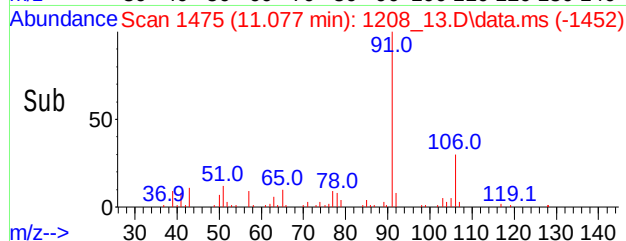
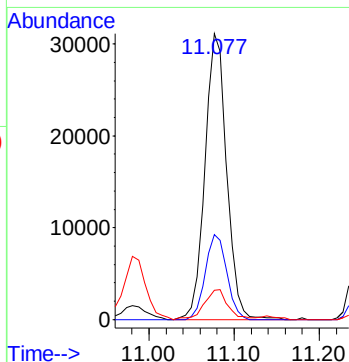
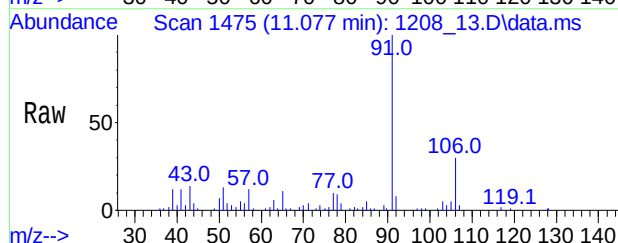
#52  
Tetrachloroethene  
Conc: 8\$ 1.546 ppbv  
RT: 9.662 min Scan# 1277  
Delta R.T. 0.007 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

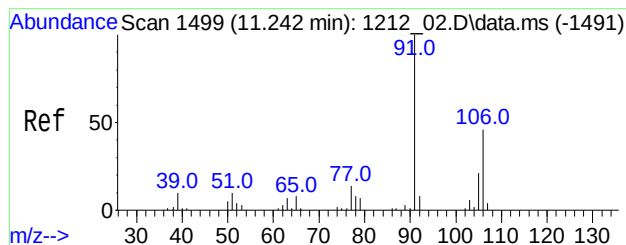
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 122340 |       |       |
| 164     | 78.7  | 58.9   | 88.3  |       |
| 129     | 73.8  | 53.3   | 79.9  |       |



#56  
Ethylbenzene  
Conc: 8\$ 0.422 ppbv  
RT: 11.077 min Scan# 1475  
Delta R.T. 0.007 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

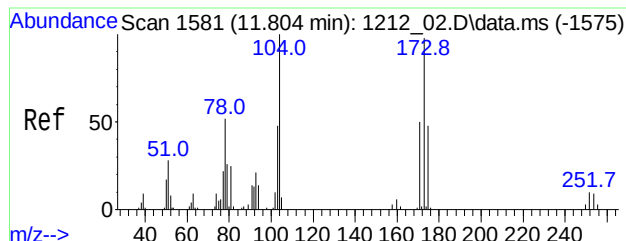
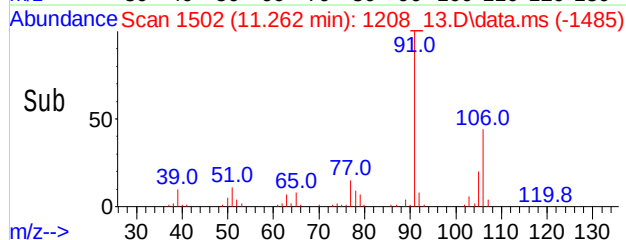
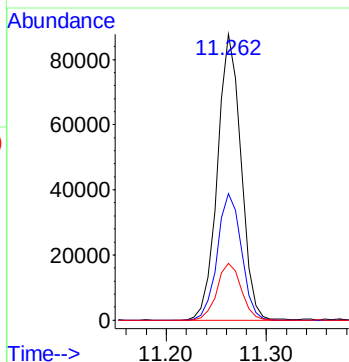
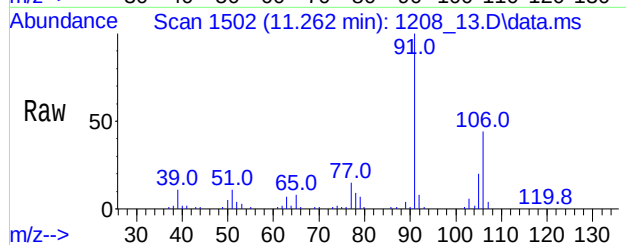
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 55142 |       |       |
| 106     | 29.4  | 4.0   | 44.0  |       |
| 77      | 11.4  | 0.0   | 20.0  |       |





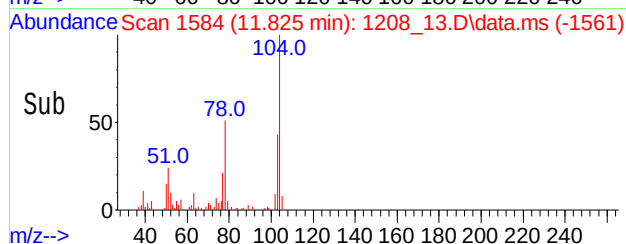
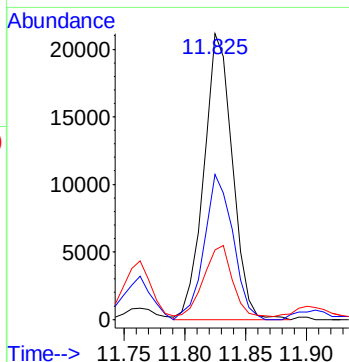
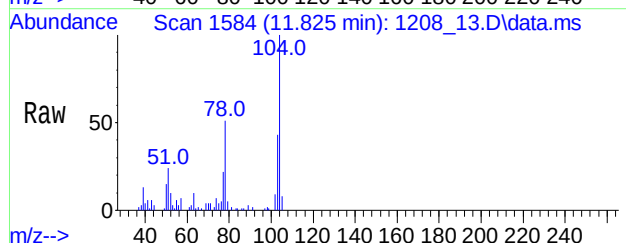
#57  
m,p-Xylene  
Conc: 8\$ 1.537 ppbv  
RT: 11.262 min Scan# 1502  
Delta R.T. 0.014 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

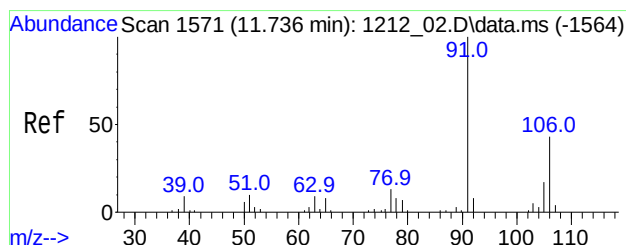
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 142895 |       |       |
| 106     | 45.2  | 33.8   | 50.8  |       |
| 105     | 20.4  | 10.8   | 16.2  |       |



#59  
Styrene  
Conc: 8\$ 0.483 ppbv  
RT: 11.825 min Scan# 1584  
Delta R.T. 0.007 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

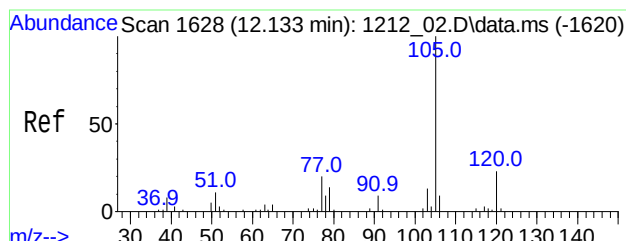
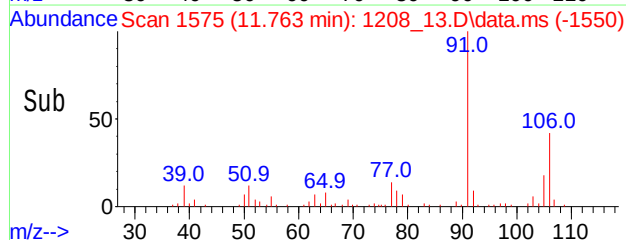
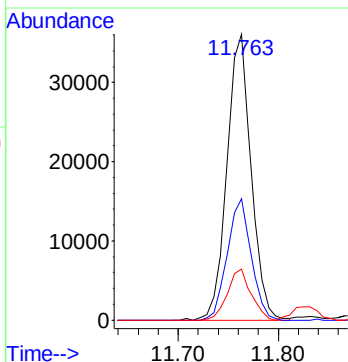
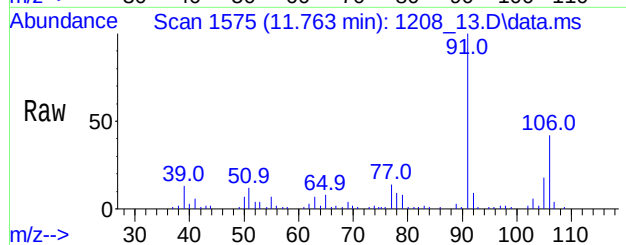
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 104     | 100   | 34090 |       |       |
| 78      | 50.9  | 16.6  | 24.8  |       |
| 51      | 26.0  | 0.0   | 0.0   |       |





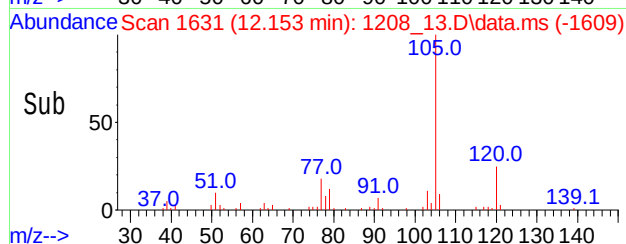
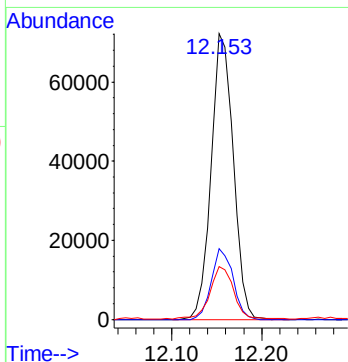
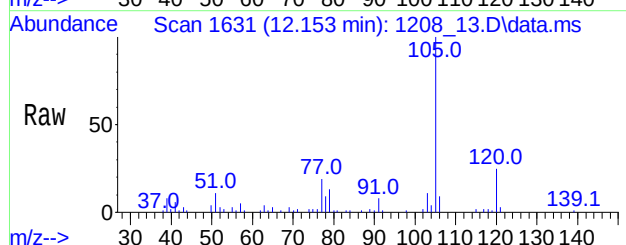
#61  
o-Xylene  
Conc: 8\$ 0.560 ppbv  
RT: 11.763 min Scan# 1575  
Delta R.T. 0.021 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

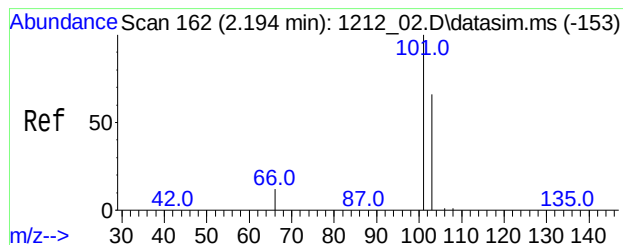
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 42.0  | 43.0  | 64.4# |
| 105     | 17.4  | 15.4  | 23.0  |



#64  
Isopropylbenzene  
Conc: 8\$ 0.935 ppbv  
RT: 12.153 min Scan# 1631  
Delta R.T. 0.007 min  
Lab File: 1208\_13.D  
Acq: 9 Dec 2019 11:59 am

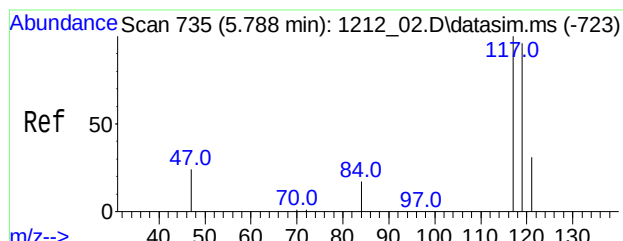
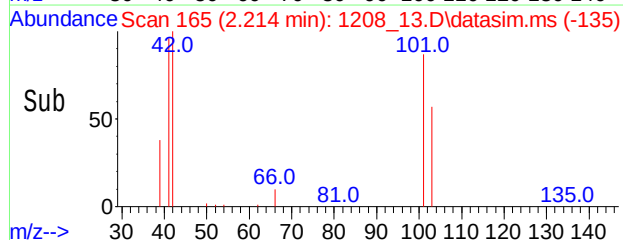
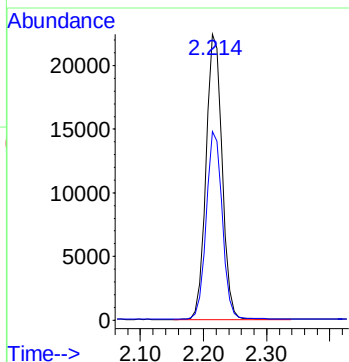
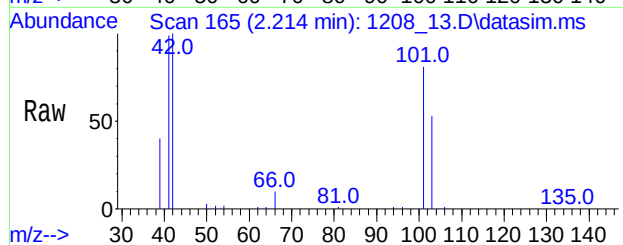
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 24.0  | 18.4  | 27.6  |
| 77      | 19.8  | 14.2  | 21.2  |





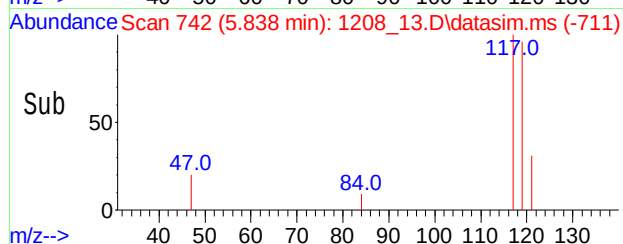
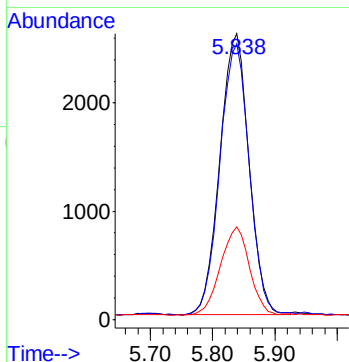
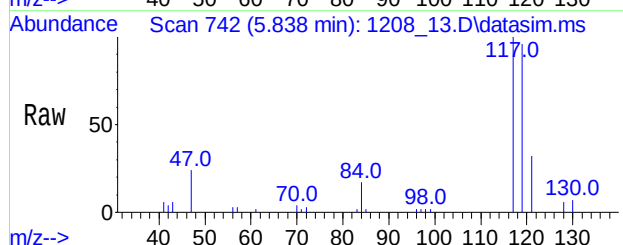
#84  
 Trichlorofluoromethane(sim)  
 Conc: 8\$ 0.227 ppbv  
 RT: 2.214 min Scan# 165  
 Delta R.T. 0.007 min  
 Lab File: 1208\_13.D  
 Acq: 9 Dec 2019 11:59 am

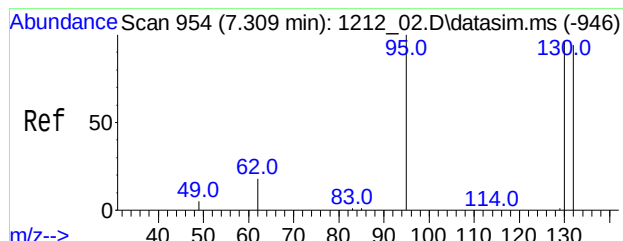
Tgt Ion: 101 Resp: 39452  
 Ion Ratio Lower Upper  
 101 100  
 103 65.3 56.4 84.6



#86  
 Carbon Tetrachloride(sim)  
 Conc: 8\$ 0.073 ppbv  
 RT: 5.838 min Scan# 742  
 Delta R.T. 0.022 min  
 Lab File: 1208\_13.D  
 Acq: 9 Dec 2019 11:59 am

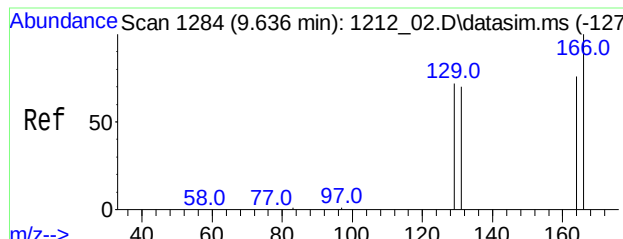
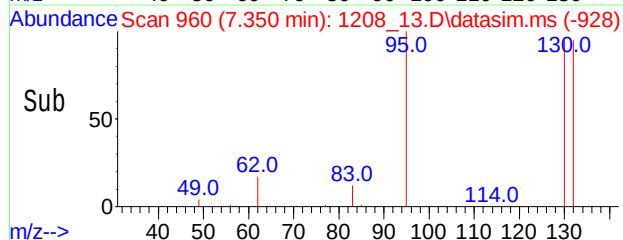
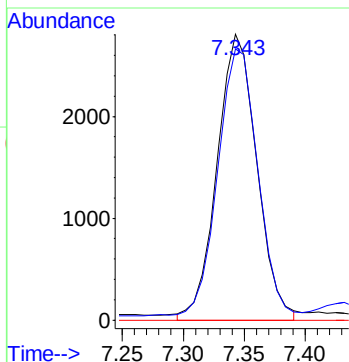
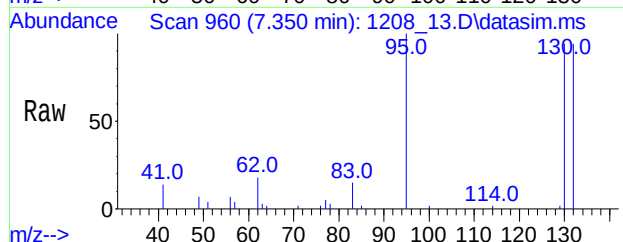
Tgt Ion: 117 Resp: 8328  
 Ion Ratio Lower Upper  
 117 100  
 119 97.3 77.4 116.0  
 121 31.5 25.4 38.2





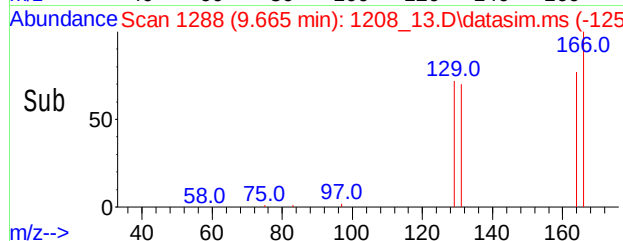
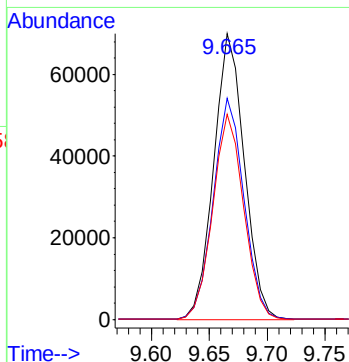
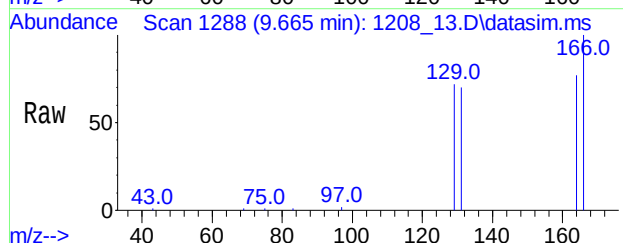
#97  
 Trichloroethene(sim)  
 Conc: 8\$ 0.113 ppbv  
 RT: 7.347 min Scan# 960  
 Delta R.T. 0.018 min  
 Lab File: 1208\_13.D  
 Acq: 9 Dec 2019 11:59 am

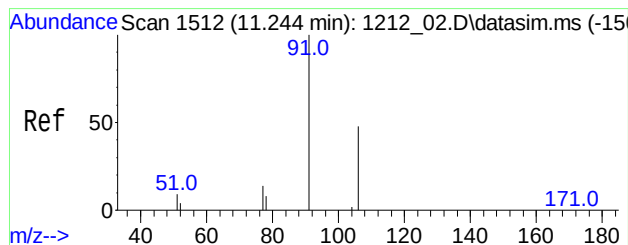
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 130     | 100   | 5815 |       |       |
| 132     | 95.3  | 72.0 | 108.0 |       |
| 97      | 72.1  | 34.1 | 51.1# |       |



#103  
 Tetrachloroethene(sim)  
 Conc: 8\$ 1.758 ppbv  
 RT: 9.662 min Scan# 1288  
 Delta R.T. 0.014 min  
 Lab File: 1208\_13.D  
 Acq: 9 Dec 2019 11:59 am

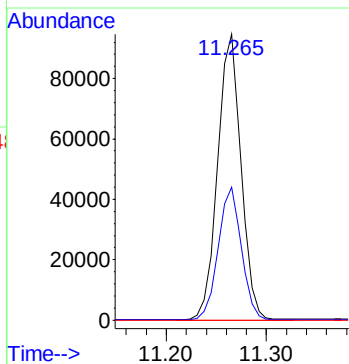
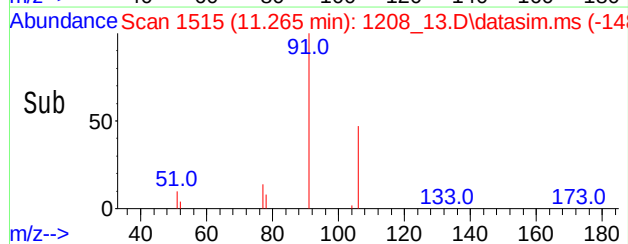
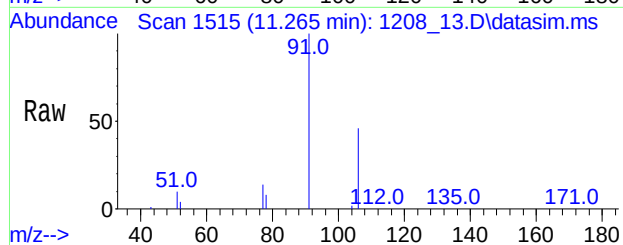
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 121985 |       |       |
| 164     | 78.7  | 31.9   | 71.9# |       |
| 129     | 74.0  | 58.6   | 98.6  |       |





#107  
 m,p-Xylene(sim)  
 Conc: 8\$ 1.501 ppbv  
 RT: 11.262 min Scan# 1515  
 Delta R.T. 0.014 min  
 Lab File: 1208\_13.D  
 Acq: 9 Dec 2019 11:59 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 142895 |       |       |
| 106     | 45.2  | 38.1   | 46.5  |       |
| 105     | 20.4  | 10.8   | 16.2  |       |



1  
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1671

|                |          |                  |                   |
|----------------|----------|------------------|-------------------|
| Client:        | CEG      | Lab:             | Phoenix Env. Labs |
| SDG No.:       | GCE81145 | Lab Sample ID:   | CANISTER BLK 1671 |
| Canister:      | CANBL    | Lab File ID:     | 1110_17.D         |
| Instrument:    | CHEM24   | Column:          |                   |
| Purge Volume   | 200      | (cc)             |                   |
| Matrix:        | AIR      | Dilution Factor: | 1                 |
| Date Received: |          |                  |                   |
| Date Analyzed: | 11/11/19 |                  |                   |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                           | CONC. | Q | MDL   | PQL   | R |
|------------|------------------------------------|-------|---|-------|-------|---|
| 115-07-1   | Propylene                          | 0.581 | U | 0.581 | 0.581 | r |
| 75-71-8    | Dichlorodifluoromethane            | 0.202 | U | 0.202 | 0.202 | r |
| 74-87-3    | Chloromethane                      | 0.485 | U | 0.485 | 0.485 | r |
| 106-99-0   | 1,3-Butadiene                      | 0.452 | U | 0.452 | 0.452 | r |
| 75-00-3    | Chloroethane                       | 0.379 | U | 0.379 | 0.379 | r |
| 64-17-5    | Ethanol                            | 0.531 | U | 0.531 | 0.531 | r |
| 67-64-1    | Acetone                            | 0.421 | U | 0.421 | 0.421 | r |
| 67-63-0    | Isopropylalcohol                   | 0.407 | U | 0.407 | 0.407 | r |
| 107-13-1   | Acrylonitrile                      | 0.461 | U | 0.461 | 0.461 | r |
| 75-09-2    | Methylene Chloride                 | 0.864 | U | 0.864 | 0.864 | r |
| 75-15-0    | Carbon Disulfide                   | 0.321 | U | 0.321 | 0.321 | r |
| 1634-04-4  | Methyl tert-butyl ether(MTBE)      | 0.278 | U | 0.278 | 0.278 | r |
| 78-93-3    | Methyl Ethyl Ketone                | 0.339 | U | 0.339 | 0.339 | r |
| 110-54-3   | Hexane                             | 0.284 | U | 0.284 | 0.284 | r |
| 141-78-6   | Ethyl acetate                      | 0.278 | U | 0.278 | 0.278 | r |
| 109-99-9   | Tetrahydrofuran                    | 0.339 | U | 0.339 | 0.339 | r |
| 71-43-2    | Benzene                            | 0.313 | U | 0.313 | 0.313 | r |
| 110-82-7   | Cyclohexane                        | 0.291 | U | 0.291 | 0.291 | r |
| 142-82-5   | Heptane                            | 0.244 | U | 0.244 | 0.244 | r |
| 108-10-1   | 4-Methyl-2-pentanone(MIBK)         | 0.244 | U | 0.244 | 0.244 | r |
| 10061-02-6 | trans-1,3-Dichloropropene          | 0.220 | U | 0.220 | 0.220 | r |
| 108-88-3   | Toluene                            | 0.266 | U | 0.266 | 0.266 | r |
| 591-78-6   | 2-Hexanone(MBK)                    | 0.244 | U | 0.244 | 0.244 | r |
| 108-90-7   | Chlorobenzene                      | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4   | Ethylbenzene                       | 0.230 | U | 0.230 | 0.230 | r |
| 100-42-5   | Styrene                            | 0.235 | U | 0.235 | 0.235 | r |
| 95-47-6    | o-Xylene                           | 0.230 | U | 0.230 | 0.230 | r |
| 98-82-8    | Isopropylbenzene                   | 0.204 | U | 0.204 | 0.204 | r |
| 622-96-8   | 4-Ethyltoluene                     | 0.204 | U | 0.204 | 0.204 | r |
| 108-67-8   | 1,3,5-Trimethylbenzene             | 0.204 | U | 0.204 | 0.204 | r |
| 95-63-6    | 1,2,4-Trimethylbenzene             | 0.204 | U | 0.204 | 0.204 | r |
| 76-14-2    | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U | 0.143 | 0.143 | r |
| 75-01-4    | Vinyl Chloride(sim)                | 0.078 | U | 0.078 | 0.078 | r |
| 74-83-9    | Bromomethane(sim)                  | 0.258 | U | 0.258 | 0.258 | r |
| 75-69-4    | Trichlorofluoromethane(sim)        | 0.178 | U | 0.178 | 0.178 | r |
| 71-55-6    | 1,1,1-Trichloroethane(sim)         | 0.183 | U | 0.183 | 0.183 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1671

|              |          |                  |                   |
|--------------|----------|------------------|-------------------|
| Client:      | CEG      | Lab:             | Phoenix Env. Labs |
| SDG No.:     | GCE81145 | Lab Sample ID:   | CANISTER BLK 1671 |
| Canister:    | CANBL    | Lab File ID:     | 1110_17.D         |
| Instrument:  | CHEM24   | Column:          |                   |
| Purge Volume | 200      | (cc)             |                   |
| Matrix:      | AIR      | Dilution Factor: | 1                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|-------------|--------------------------------|-------|---|-------|-------|---|
| 56-23-5     | Carbon Tetrachloride(sim)      | 0.032 | U | 0.032 | 0.032 | r |
| 75-35-4     | 1,1-Dichloroethene(sim)        | 0.051 | U | 0.051 | 0.051 | r |
| 76-13-1     | Trichlorotrifluoroethane(sim)  | 0.131 | U | 0.131 | 0.131 | r |
| 156-60-5    | Trans-1,2-Dichloroethene(sim)  | 0.252 | U | 0.252 | 0.252 | r |
| 75-34-3     | 1,1-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 156-59-2    | Cis-1,2-Dichloroethene(sim)    | 0.051 | U | 0.051 | 0.051 | r |
| 67-66-3     | Chloroform(sim)                | 0.205 | U | 0.205 | 0.205 | r |
| 107-06-2    | 1,2-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 78-87-5     | 1,2-dichloropropane(sim)       | 0.217 | U | 0.217 | 0.217 | r |
| 75-27-4     | Bromodichloromethane(sim)      | 0.149 | U | 0.149 | 0.149 | r |
| 79-01-6     | Trichloroethene(sim)           | 0.037 | U | 0.037 | 0.037 | r |
| 123-91-1    | 1,4-Dioxane(sim)               | 0.278 | U | 0.278 | 0.278 | r |
| 10061-01-5  | cis-1,3-Dichloropropene(sim)   | 0.220 | U | 0.220 | 0.220 | r |
| 79-00-5     | 1,1,2-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1    | Dibromochloromethane(sim)      | 0.117 | U | 0.117 | 0.117 | r |
| 106-93-4    | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 127-18-4    | Tetrachloroethene(sim)         | 0.037 | U | 0.037 | 0.037 | r |
| 75-25-2     | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6    | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 179601-23-1 | m,p-Xylene(sim)                | 0.230 | U | 0.230 | 0.230 | r |
| 79-34-5     | 1,1,2,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 100-44-7    | Benzyl chloride(sim)           | 0.193 | U | 0.193 | 0.193 | r |
| 541-73-1    | 1,3-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 106-46-7    | 1,4-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 135-98-8    | sec-Butylbenzene(sim)          | 0.182 | U | 0.182 | 0.182 | r |
| 99-87-6     | 4-Isopropyltoluene(sim)        | 0.182 | U | 0.182 | 0.182 | r |
| 95-50-1     | 1,2-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 104-51-8    | n-Butylbenzene(sim)            | 0.182 | U | 0.182 | 0.182 | r |
| 120-82-1    | 1,2,4-Trichlorobenzene(sim)    | 0.135 | U | 0.135 | 0.135 | r |
| 87-68-3     | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent



Data Path : H:\AIR2019\CHEM24\11NOV\10\  
Data File : 1110\_17.D  
Acq On : 11 Nov 2019 1:47 am  
Operator : Keith  
Client ID : CANISTER BLK 1671  
Lab ID : CANISTER BLK 1671  
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 11 08:41:04 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1110.M  
Quant Title : VOA Standards for 5 point calibration  
QLast Update : Mon Nov 11 08:33:04 2019  
Response via : Initial Calibration

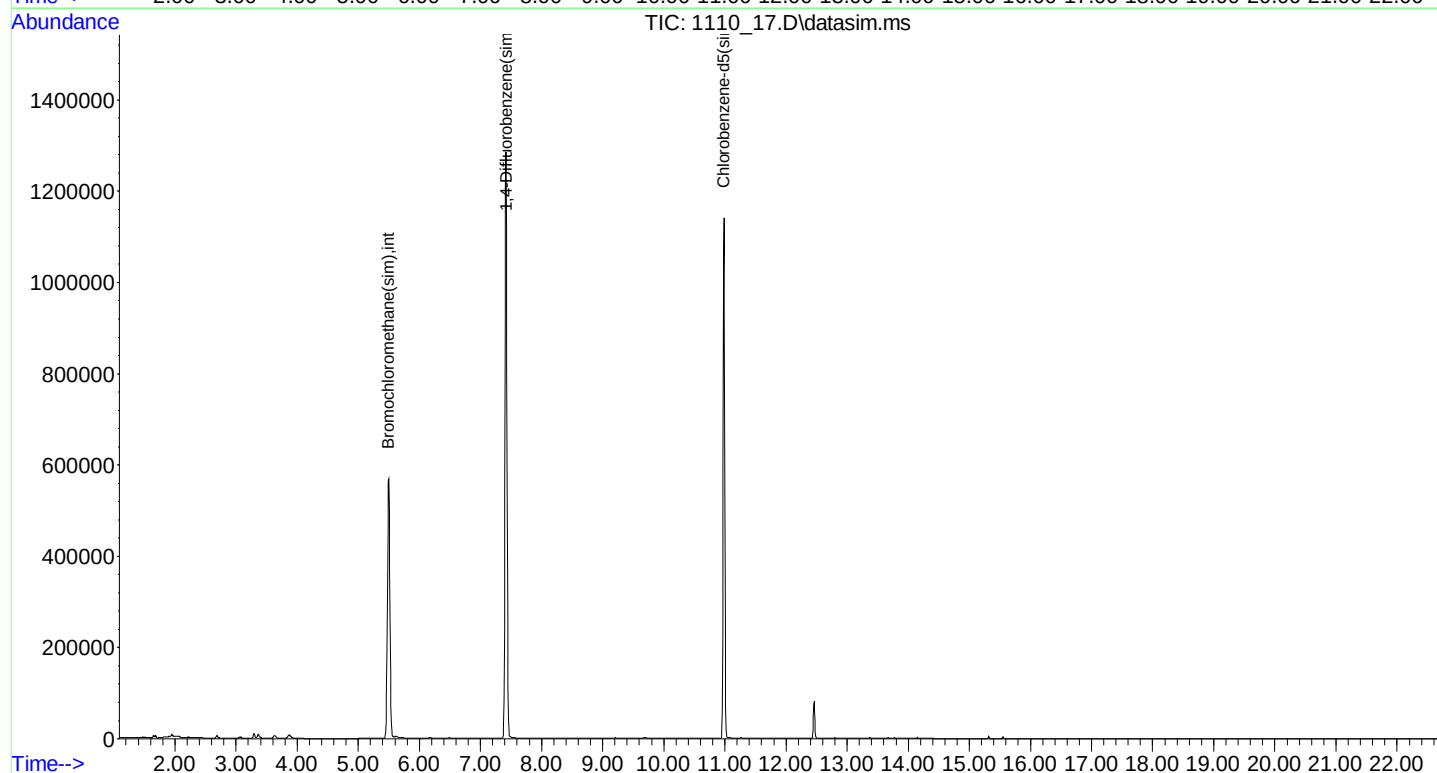
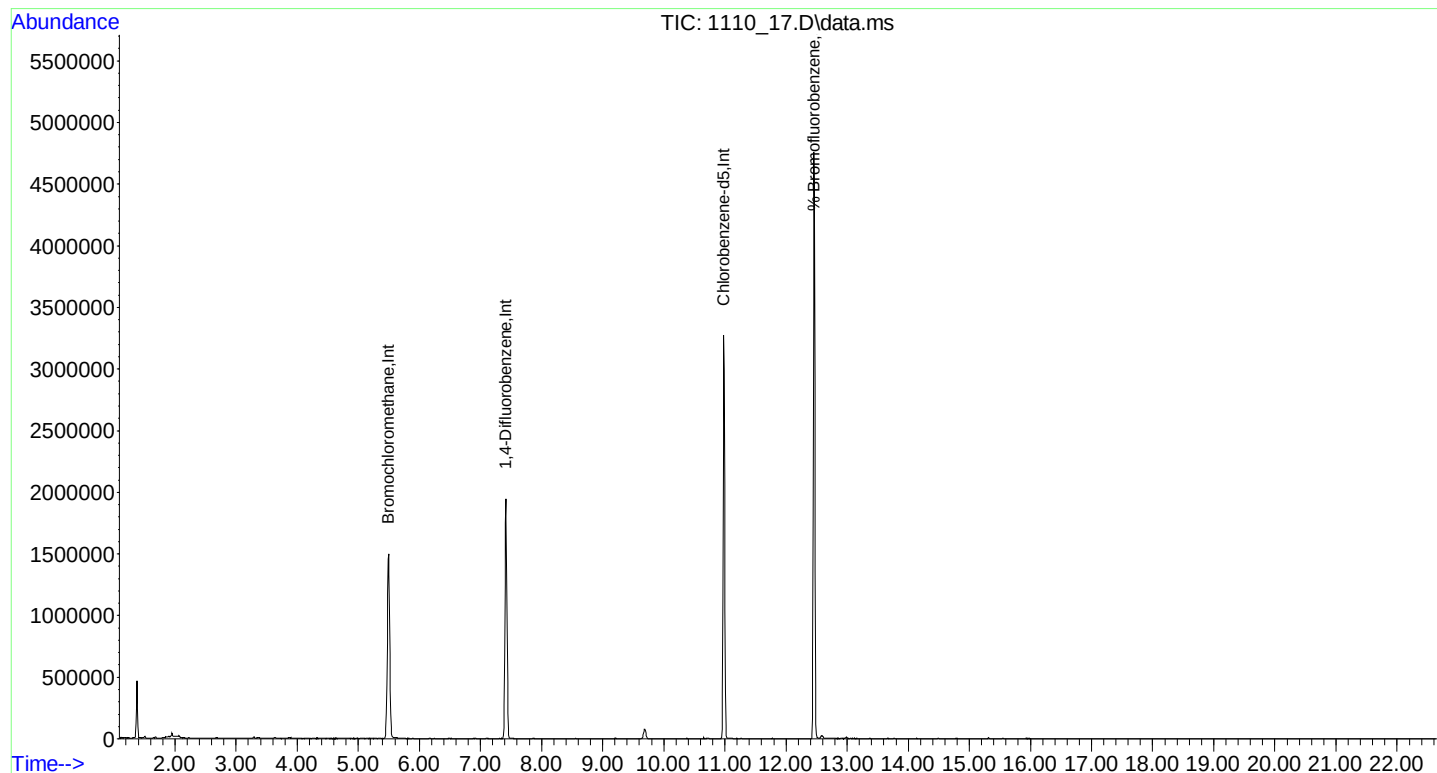
| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 5.496  | 130   | 854339   | 10.000   | ng    | -0.02    |
| 36) 1,4-Difluorobenzene      | 7.415  | 114   | 2029892  | 10.000   | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.981 | 82    | 1033957  | 10.000   | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.499  | 130   | 847402   | 10.000   | ng    | #-0.01   |
| 94) 1,4-Difluorobenzene(sim) | 7.418  | 114   | 2139093  | 10.000   | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.984 | 82    | 1105242  | 10.000   | ng    | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 62) % Bromofluorobenzene     | 12.458 | 95    | 1535791  | 9.220    | ppbv  | 0.00     |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 92.20%   |

| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM24\11NOV\10\  
Data File : 1110\_17.D  
Acq On : 11 Nov 2019 1:47 am  
Operator : Keith  
Client ID : CANISTER BLK 1671  
Lab ID : CANISTER BLK 1671  
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 11 08:41:04 2019  
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1110.M  
Quant Title : VOA Standards for 5 point calibration  
Last Update : Mon Nov 11 08:33:04 2019  
Response via : Initial Calibration



## Canister Cleaning Certification

Batch Id: 1671

Certified: ☒

QC Canister Id: 1159

Certified Date: 11/11/2019 1:47:00 AM

Canister Ids: 1159, 12854, 19933, 21368, 226, 28578, 28580, 28583, 367, 468, 480, 492

Certified By: airlab

Certified Computer: CHEM13XP0609

Sample Id: blk 1671

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM24\11NOV\10\1110\_17.D\1110\_17-24AIR\_1110.rr

| Analyte                        | Result (ppbv) | Analyte                            | Result (ppbv) |
|--------------------------------|---------------|------------------------------------|---------------|
| % Bromofluorobenzene           | 9.2204        | 1,1,1,2-Tetrachloroethane          | 0             |
| 1,1,1,2-Tetrachloroethane(sim) | 0             | 1,1,1-Trichloroethane              | 0             |
| 1,1,1-Trichloroethane(sim)     | 0             | 1,1,2,2-Tetrachloroethane          | 0             |
| 1,1,2,2-Tetrachloroethane(sim) | 0             | 1,1,2-Trichloroethane              | 0             |
| 1,1,2-Trichloroethane(sim)     | 0             | 1,1-Dichloroethane                 | 0             |
| 1,1-Dichloroethane(sim)        | 0             | 1,1-Dichloroethene                 | 0             |
| 1,1-Dichloroethene(sim)        | 0             | 1,2,4-Trichlorobenzene             | 0             |
| 1,2,4-Trichlorobenzene(sim)    | 0             | 1,2,4-Trimethylbenzene             | 0             |
| 1,2-Dibromoethane(EDB)         | 0             | 1,2-Dibromoethane(EDB)(sim)        | 0             |
| 1,2-Dichlorobenzene            | 0             | 1,2-Dichlorobenzene(sim)           | 0             |
| 1,2-Dichloroethane             | 0             | 1,2-Dichloroethane(sim)            | 0             |
| 1,2-dichloropropane            | 0             | 1,2-dichloropropane(sim)           | 0             |
| 1,2-Dichlorotetrafluoroethane  | 0             | 1,2-Dichlorotetrafluoroethane(sim) | 0             |
| 1,3,5-Trimethylbenzene         | 0             | 1,3-Butadiene                      | 0             |
| 1,3-Dichlorobenzene            | 0             | 1,3-Dichlorobenzene(sim)           | 0             |
| 1,4-Dichlorobenzene            | 0             | 1,4-Dichlorobenzene(sim)           | 0             |
| 1,4-Difluorobenzene            | 10            | 1,4-Difluorobenzene(sim)           | 10            |
| 1,4-Dioxane                    | 0             | 1,4-Dioxane(sim)                   | 0             |
| 2,2,4-trimethylpentane         | 0             | 2-Chlorotoluene                    | 0             |
| 2-Hexanone(MBK)                | 0             | 4-Ethyltoluene                     | 0             |
| 4-Isopropyltoluene             | 0             | 4-Isopropyltoluene(sim)            | 0             |
| 4-Methyl-2-pentanone(MIBK)     | 0             | Acetone                            | 0             |
| Acrylonitrile                  | 0             | Allyl Chloride                     | 0             |
| Benzene                        | 0             | Benzyl chloride                    | 0             |
| Benzyl chloride(sim)           | 0             | Bromochloromethane                 | 10            |
| Bromochloromethane(sim)        | 10            | Bromodichloromethane               | 0             |
| Bromodichloromethane(sim)      | 0             | Bromoform                          | 0             |
| Bromoform(sim)                 | 0             | Bromomethane                       | 0             |
| Bromomethane(sim)              | 0             | Carbon Disulfide                   | 0             |
| Carbon Tetrachloride           | 0             | Carbon Tetrachloride(sim)          | 0             |
| Chlorobenzene                  | 0             | Chlorobenzene-d5                   | 10            |
| Chlorobenzene-d5(sim)          | 10            | Chloroethane                       | 0             |
| Chloroform                     | 0             | Chloroform(sim)                    | 0             |
| Chloromethane                  | 0             | Cis-1,2-Dichloroethene             | 0             |
| Cis-1,2-Dichloroethene(sim)    | 0             | cis-1,3-Dichloropropene            | 0             |
| cis-1,3-Dichloropropene(sim)   | 0             | Cyclohexane                        | 0             |
| Dibromochloromethane           | 0             | Dibromochloromethane(sim)          | 0             |
| Dichlorodifluoromethane        | 0             | Ethanol                            | 0             |
| Ethyl acetate                  | 0             | Ethylbenzene                       | 0             |
| Heptane                        | 0             | Hexachlorobutadiene                | 0             |
| Hexachlorobutadiene(sim)       | 0             | Hexane                             | 0             |
| Isopropylalcohol               | 0             | Isopropylbenzene                   | 0             |
| m,p-Xylene                     | 0             | m,p-Xylene(sim)                    | 0             |
| Methyl Ethyl Ketone            | 0             | Methyl methacrylate                | 0             |
| Methyl tert-butyl ether(MTBE)  | 0             | Methylene Chloride                 | 0             |
| n-Butylbenzene                 | 0             | n-Butylbenzene(sim)                | 0             |

## Canister Cleaning Certification

Batch Id: 1671

Certified: ☒

QC Canister Id: 1159

Certified Date: 11/11/2019 1:47:00 AM

Canister Ids: 1159, 12854, 19933, 21368, 226, 28578, 28580, 28583, 367, 468, 480, 492

Certified By: airlab

Certified Computer: CHEM13XP0609

Sample Id: blk 1671

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM24\11NOV\10\1110\_17.D\1110\_17-24AIR\_1110.rr

| Analyte                       | Result (ppbv) | Analyte                       | Result (ppbv) |
|-------------------------------|---------------|-------------------------------|---------------|
| n-Propylbenzene               | 0             | n-Propylbenzene(sim)          | 0             |
| Naphthalene                   | 0             | o-Xylene                      | 0             |
| Propylene                     | 0             | sec-Butylbenzene              | 0             |
| sec-Butylbenzene(sim)         | 0             | Styrene                       | 0             |
| tert-butyl alcohol            | 0             | tert-butylbenzene             | 0             |
| tert-butylbenzene(sim)        | 0             | Tetrachloroethene             | 0             |
| Tetrachloroethene(sim)        | 0             | Tetrahydrofuran               | 0             |
| Toluene                       | 0             | Trans-1,2-Dichloroethene      | 0             |
| Trans-1,2-Dichloroethene(sim) | 0             | trans-1,3-Dichloropropene     | 0             |
| Trichloroethene               | 0             | Trichloroethene(sim)          | 0             |
| Trichlorofluoromethane        | 0             | Trichlorofluoromethane(sim)   | 0             |
| Trichlorotrifluoroethane      | 0             | Trichlorotrifluoroethane(sim) | 0             |
| Vinyl Bromide                 | 0             | Vinyl Chloride                | 0             |
| Vinyl Chloride(sim)           | 0             |                               |               |

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1672

Client: CEG Lab: Phoenix Env. Labs

SDG No.: GCE81145 Lab Sample ID: CANISTER BLK 1672

Canister: CANBL Lab File ID: 1111\_06.D

Instrument: CHEM24 Column: \_\_\_\_\_ Date Received: \_\_\_\_\_

Purge Volume 200 (cc) Date Analyzed: 11/11/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.    | COMPOUND                           | CONC. | Q | MDL   | PQL   | R |
|------------|------------------------------------|-------|---|-------|-------|---|
| 115-07-1   | Propylene                          | 0.581 | U | 0.581 | 0.581 | r |
| 75-71-8    | Dichlorodifluoromethane            | 0.202 | U | 0.202 | 0.202 | r |
| 74-87-3    | Chloromethane                      | 0.485 | U | 0.485 | 0.485 | r |
| 106-99-0   | 1,3-Butadiene                      | 0.452 | U | 0.452 | 0.452 | r |
| 75-00-3    | Chloroethane                       | 0.379 | U | 0.379 | 0.379 | r |
| 64-17-5    | Ethanol                            | 0.531 | U | 0.531 | 0.531 | r |
| 67-64-1    | Acetone                            | 0.421 | U | 0.421 | 0.421 | r |
| 67-63-0    | Isopropylalcohol                   | 0.407 | U | 0.407 | 0.407 | r |
| 107-13-1   | Acrylonitrile                      | 0.461 | U | 0.461 | 0.461 | r |
| 75-09-2    | Methylene Chloride                 | 0.864 | U | 0.864 | 0.864 | r |
| 75-15-0    | Carbon Disulfide                   | 0.321 | U | 0.321 | 0.321 | r |
| 1634-04-4  | Methyl tert-butyl ether(MTBE)      | 0.278 | U | 0.278 | 0.278 | r |
| 78-93-3    | Methyl Ethyl Ketone                | 0.339 | U | 0.339 | 0.339 | r |
| 110-54-3   | Hexane                             | 0.284 | U | 0.284 | 0.284 | r |
| 141-78-6   | Ethyl acetate                      | 0.278 | U | 0.278 | 0.278 | r |
| 109-99-9   | Tetrahydrofuran                    | 0.339 | U | 0.339 | 0.339 | r |
| 71-43-2    | Benzene                            | 0.313 | U | 0.313 | 0.313 | r |
| 110-82-7   | Cyclohexane                        | 0.291 | U | 0.291 | 0.291 | r |
| 142-82-5   | Heptane                            | 0.244 | U | 0.244 | 0.244 | r |
| 108-10-1   | 4-Methyl-2-pentanone(MIBK)         | 0.244 | U | 0.244 | 0.244 | r |
| 10061-02-6 | trans-1,3-Dichloropropene          | 0.220 | U | 0.220 | 0.220 | r |
| 108-88-3   | Toluene                            | 0.266 | U | 0.266 | 0.266 | r |
| 591-78-6   | 2-Hexanone(MBK)                    | 0.244 | U | 0.244 | 0.244 | r |
| 108-90-7   | Chlorobenzene                      | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4   | Ethylbenzene                       | 0.230 | U | 0.230 | 0.230 | r |
| 100-42-5   | Styrene                            | 0.235 | U | 0.235 | 0.235 | r |
| 95-47-6    | o-Xylene                           | 0.230 | U | 0.230 | 0.230 | r |
| 98-82-8    | Isopropylbenzene                   | 0.204 | U | 0.204 | 0.204 | r |
| 622-96-8   | 4-Ethyltoluene                     | 0.204 | U | 0.204 | 0.204 | r |
| 108-67-8   | 1,3,5-Trimethylbenzene             | 0.204 | U | 0.204 | 0.204 | r |
| 95-63-6    | 1,2,4-Trimethylbenzene             | 0.204 | U | 0.204 | 0.204 | r |
| 76-14-2    | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U | 0.143 | 0.143 | r |
| 75-01-4    | Vinyl Chloride(sim)                | 0.078 | U | 0.078 | 0.078 | r |
| 74-83-9    | Bromomethane(sim)                  | 0.258 | U | 0.258 | 0.258 | r |
| 75-69-4    | Trichlorofluoromethane(sim)        | 0.178 | U | 0.178 | 0.178 | r |
| 71-55-6    | 1,1,1-Trichloroethane(sim)         | 0.183 | U | 0.183 | 0.183 | r |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1  
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1672

|              |                 |                  |                          |
|--------------|-----------------|------------------|--------------------------|
| Client:      | <u>CEG</u>      | Lab:             | <u>Phoenix Env. Labs</u> |
| SDG No.:     | <u>GCE81145</u> | Lab Sample ID:   | <u>CANISTER BLK 1672</u> |
| Canister:    | <u>CANBL</u>    | Lab File ID:     | <u>1111_06.D</u>         |
| Instrument:  | <u>CHEM24</u>   | Column:          | <u></u>                  |
| Purge Volume | <u>200</u> (cc) | Date Received:   | <u></u>                  |
| Matrix:      | <u>AIR</u>      | Date Analyzed:   | <u>11/11/19</u>          |
|              |                 | Dilution Factor: | <u>1</u>                 |

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO.     | COMPOUND                       | CONC. | Q | MDL   | PQL   | R |
|-------------|--------------------------------|-------|---|-------|-------|---|
| 56-23-5     | Carbon Tetrachloride(sim)      | 0.032 | U | 0.032 | 0.032 | r |
| 75-35-4     | 1,1-Dichloroethene(sim)        | 0.051 | U | 0.051 | 0.051 | r |
| 76-13-1     | Trichlorotrifluoroethane(sim)  | 0.131 | U | 0.131 | 0.131 | r |
| 156-60-5    | Trans-1,2-Dichloroethene(sim)  | 0.252 | U | 0.252 | 0.252 | r |
| 75-34-3     | 1,1-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 156-59-2    | Cis-1,2-Dichloroethene(sim)    | 0.051 | U | 0.051 | 0.051 | r |
| 67-66-3     | Chloroform(sim)                | 0.205 | U | 0.205 | 0.205 | r |
| 107-06-2    | 1,2-Dichloroethane(sim)        | 0.247 | U | 0.247 | 0.247 | r |
| 78-87-5     | 1,2-dichloropropane(sim)       | 0.217 | U | 0.217 | 0.217 | r |
| 75-27-4     | Bromodichloromethane(sim)      | 0.149 | U | 0.149 | 0.149 | r |
| 79-01-6     | Trichloroethene(sim)           | 0.037 | U | 0.037 | 0.037 | r |
| 123-91-1    | 1,4-Dioxane(sim)               | 0.278 | U | 0.278 | 0.278 | r |
| 10061-01-5  | cis-1,3-Dichloropropene(sim)   | 0.220 | U | 0.220 | 0.220 | r |
| 79-00-5     | 1,1,2-Trichloroethane(sim)     | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1    | Dibromochloromethane(sim)      | 0.117 | U | 0.117 | 0.117 | r |
| 106-93-4    | 1,2-Dibromoethane(EDB)(sim)    | 0.130 | U | 0.130 | 0.130 | r |
| 127-18-4    | Tetrachloroethene(sim)         | 0.037 | U | 0.037 | 0.037 | r |
| 75-25-2     | Bromoform(sim)                 | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6    | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 179601-23-1 | m,p-Xylene(sim)                | 0.230 | U | 0.230 | 0.230 | r |
| 79-34-5     | 1,1,2,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 100-44-7    | Benzyl chloride(sim)           | 0.193 | U | 0.193 | 0.193 | r |
| 541-73-1    | 1,3-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 106-46-7    | 1,4-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 135-98-8    | sec-Butylbenzene(sim)          | 0.182 | U | 0.182 | 0.182 | r |
| 99-87-6     | 4-Isopropyltoluene(sim)        | 0.182 | U | 0.182 | 0.182 | r |
| 95-50-1     | 1,2-Dichlorobenzene(sim)       | 0.166 | U | 0.166 | 0.166 | r |
| 104-51-8    | n-Butylbenzene(sim)            | 0.182 | U | 0.182 | 0.182 | r |
| 120-82-1    | 1,2,4-Trichlorobenzene(sim)    | 0.135 | U | 0.135 | 0.135 | r |
| 87-68-3     | Hexachlorobutadiene(sim)       | 0.094 | U | 0.094 | 0.094 | r |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |
|             |                                |       |   |       |       |   |

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\11NOV\10\  
 Data File : 1111\_06.D  
 Acq On : 11 Nov 2019 4:01 pm  
 Operator : Keith  
 Client ID : CANISTER BLK 1672  
 Lab ID : CANISTER BLK 1672  
 ALS Vial : 44 Sample Multiplier: 1

Quant Time: Nov 12 08:31:05 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1110.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Nov 11 08:33:04 2019  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 5.496  | 130   | 850493   | 10.000   | ng    | -0.02    |
| 36) 1,4-Difluorobenzene      | 7.415  | 114   | 2024371  | 10.000   | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.988 | 82    | 1027860  | 10.000   | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 5.499  | 130   | 839799   | 10.000   | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.418  | 114   | 2133923  | 10.000   | ng    | # 0.00   |
| 104) Chlorobenzene-d5(sim)   | 10.984 | 82    | 1100541  | 10.000   | ng    | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 62) % Bromofluorobenzene     | 12.464 | 95    | 1511330  | 9.127    | ppbv  | 0.00     |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 91.30%   |

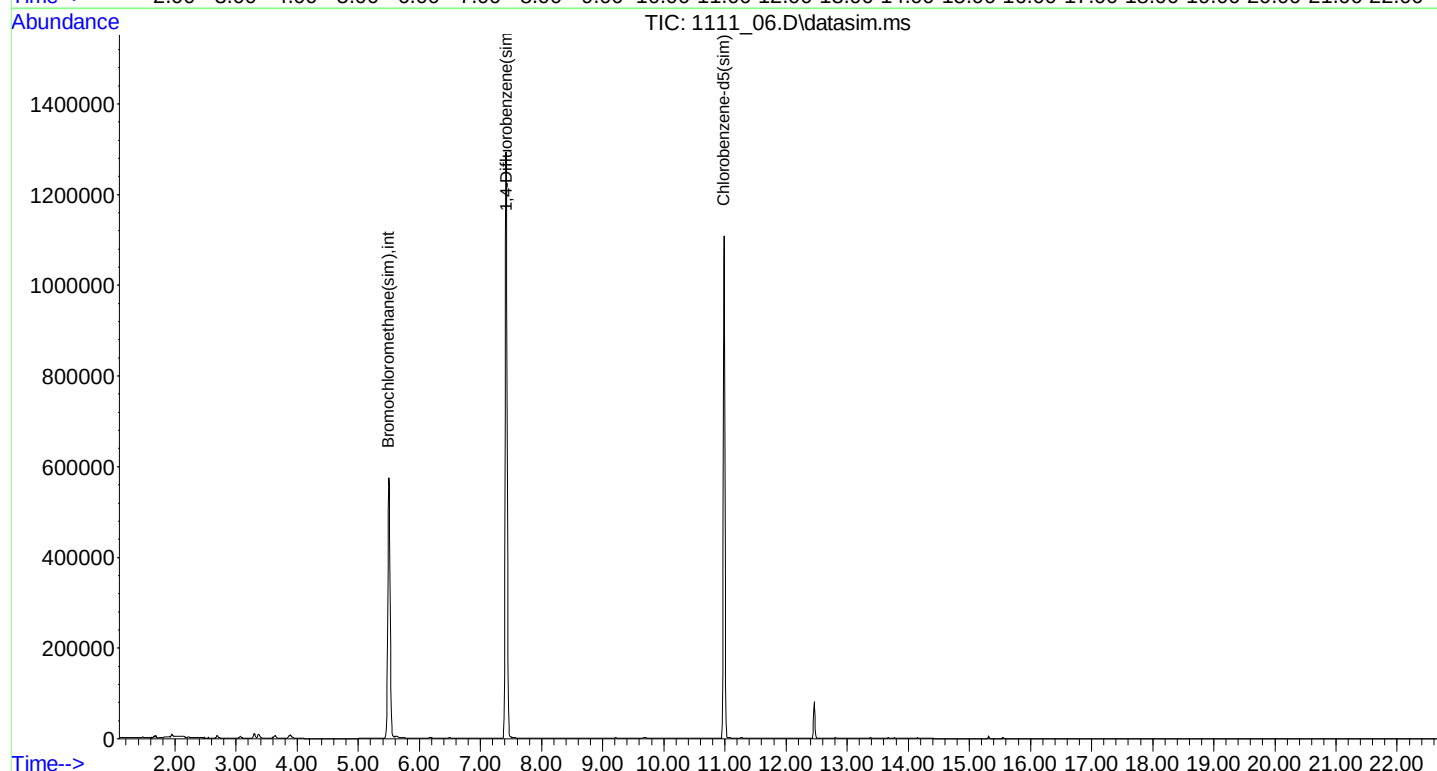
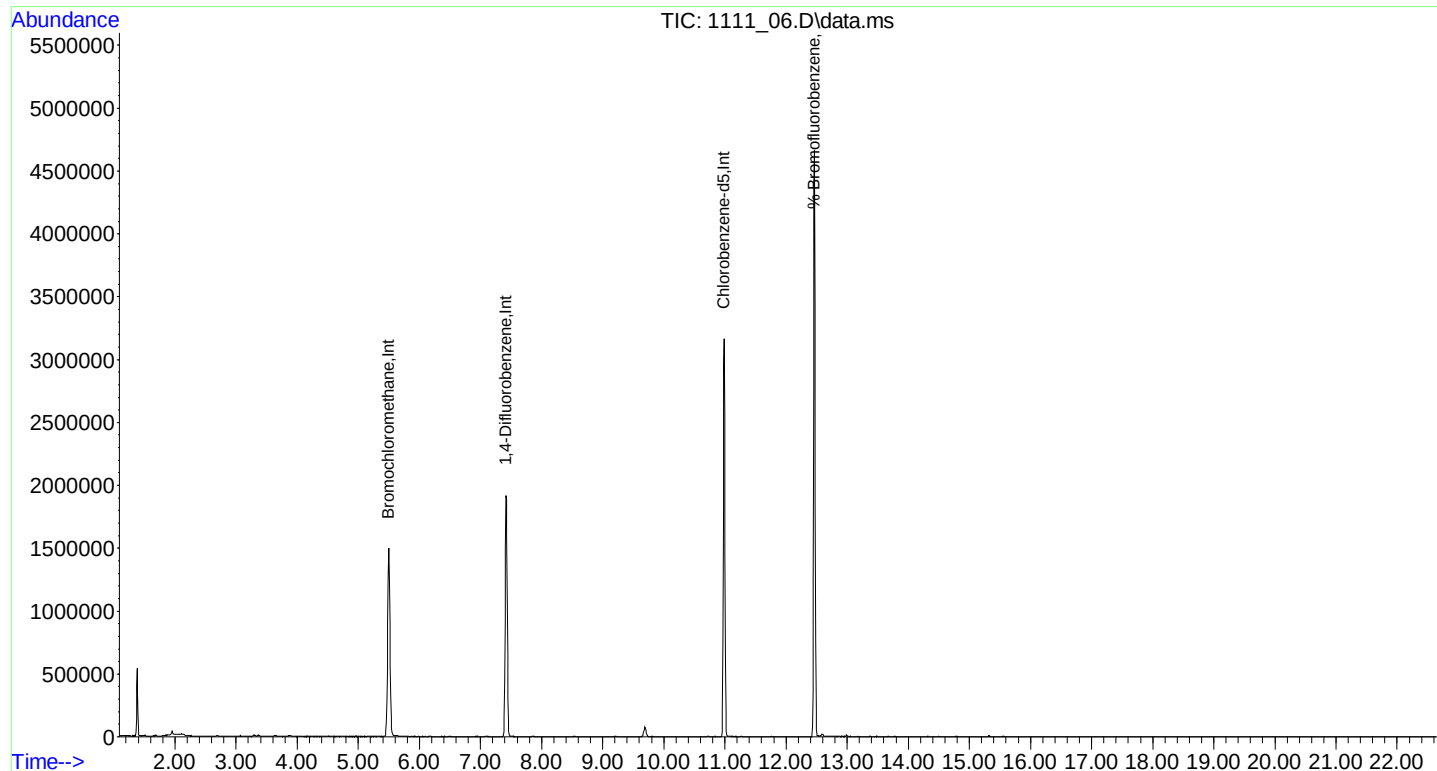
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\11NOV\10\  
 Data File : 1111\_06.D  
 Acq On : 11 Nov 2019 4:01 pm  
 Operator : Keith  
 Client ID : CANISTER BLK 1672  
 Lab ID : CANISTER BLK 1672  
 ALS Vial : 44 Sample Multiplier: 1

Quant Time: Nov 12 08:31:05 2019  
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR\_1110.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Nov 11 08:33:04 2019  
 Response via : Initial Calibration





## Canister Cleaning Certification

|                        |                                                                              |                            |                                     |
|------------------------|------------------------------------------------------------------------------|----------------------------|-------------------------------------|
| <b>Batch Id:</b>       | 1672                                                                         | <b>Certified:</b>          | <input checked="" type="checkbox"/> |
| <b>QC Canister Id:</b> | 837                                                                          | <b>Certified Date:</b>     | 11/11/2019 4:01:00 PM               |
| <b>Canister Ids:</b>   | 12855, 12864, 172, 21339, 21345, 23326, 28556, 28581, 28610, 28625, 350, 837 | <b>Certified By:</b>       | airlab                              |
|                        |                                                                              | <b>Certified Computer:</b> | CHEM13XP0609                        |
|                        |                                                                              | <b>Sample Id:</b>          | blk 1672                            |

**Comment:** Initial vacuum of all canisters in this batch is -30 psig.

**Data File:** H:\AIR2019\CHEM24\11NOV\10\1111\_06.D\1111\_06-24AIR\_1110.rr

| Analyte                        | Result (ppbv) | Analyte                            | Result (ppbv) |
|--------------------------------|---------------|------------------------------------|---------------|
| % Bromofluorobenzene           | 9.1274        | 1,1,1,2-Tetrachloroethane          | 0             |
| 1,1,1,2-Tetrachloroethane(sim) | 0             | 1,1,1-Trichloroethane              | 0             |
| 1,1,1-Trichloroethane(sim)     | 0             | 1,1,2,2-Tetrachloroethane          | 0             |
| 1,1,2,2-Tetrachloroethane(sim) | 0             | 1,1,2-Trichloroethane              | 0             |
| 1,1,2-Trichloroethane(sim)     | 0             | 1,1-Dichloroethane                 | 0             |
| 1,1-Dichloroethane(sim)        | 0             | 1,1-Dichloroethene                 | 0             |
| 1,1-Dichloroethene(sim)        | 0             | 1,2,4-Trichlorobenzene             | 0             |
| 1,2,4-Trichlorobenzene(sim)    | 0             | 1,2,4-Trimethylbenzene             | 0             |
| 1,2-Dibromoethane(EDB)         | 0             | 1,2-Dibromoethane(EDB)(sim)        | 0             |
| 1,2-Dichlorobenzene            | 0             | 1,2-Dichlorobenzene(sim)           | 0             |
| 1,2-Dichloroethane             | 0             | 1,2-Dichloroethane(sim)            | 0             |
| 1,2-dichloropropane            | 0             | 1,2-dichloropropane(sim)           | 0             |
| 1,2-Dichlorotetrafluoroethane  | 0             | 1,2-Dichlorotetrafluoroethane(sim) | 0             |
| 1,3,5-Trimethylbenzene         | 0             | 1,3-Butadiene                      | 0             |
| 1,3-Dichlorobenzene            | 0             | 1,3-Dichlorobenzene(sim)           | 0             |
| 1,4-Dichlorobenzene            | 0             | 1,4-Dichlorobenzene(sim)           | 0             |
| 1,4-Difluorobenzene            | 10            | 1,4-Difluorobenzene(sim)           | 10            |
| 1,4-Dioxane                    | 0             | 1,4-Dioxane(sim)                   | 0             |
| 2,2,4-trimethylpentane         | 0             | 2-Chlorotoluene                    | 0             |
| 2-Hexanone(MBK)                | 0             | 4-Ethyltoluene                     | 0             |
| 4-Isopropyltoluene             | 0             | 4-Isopropyltoluene(sim)            | 0             |
| 4-Methyl-2-pentanone(MIBK)     | 0             | Acetone                            | 0             |
| Acrylonitrile                  | 0             | Allyl Chloride                     | 0             |
| Benzene                        | 0             | Benzyl chloride                    | 0             |
| Benzyl chloride(sim)           | 0             | Bromochloromethane                 | 10            |
| Bromochloromethane(sim)        | 10            | Bromodichloromethane               | 0             |
| Bromodichloromethane(sim)      | 0             | Bromoform                          | 0             |
| Bromoform(sim)                 | 0             | Bromomethane                       | 0             |
| Bromomethane(sim)              | 0             | Carbon Disulfide                   | 0             |
| Carbon Tetrachloride           | 0             | Carbon Tetrachloride(sim)          | 0             |
| Chlorobenzene                  | 0             | Chlorobenzene-d5                   | 10            |
| Chlorobenzene-d5(sim)          | 10            | Chloroethane                       | 0             |
| Chloroform                     | 0             | Chloroform(sim)                    | 0             |
| Chloromethane                  | 0             | Cis-1,2-Dichloroethene             | 0             |
| Cis-1,2-Dichloroethene(sim)    | 0             | cis-1,3-Dichloropropene            | 0             |
| cis-1,3-Dichloropropene(sim)   | 0             | Cyclohexane                        | 0             |
| Dibromochloromethane           | 0             | Dibromochloromethane(sim)          | 0             |
| Dichlorodifluoromethane        | 0             | Ethanol                            | 0             |
| Ethyl acetate                  | 0             | Ethylbenzene                       | 0             |
| Heptane                        | 0             | Hexachlorobutadiene                | 0             |
| Hexachlorobutadiene(sim)       | 0             | Hexane                             | 0             |
| Isopropylalcohol               | 0             | Isopropylbenzene                   | 0             |
| m,p-Xylene                     | 0             | m,p-Xylene(sim)                    | 0             |
| Methyl Ethyl Ketone            | 0             | Methyl methacrylate                | 0             |
| Methyl tert-butyl ether(MTBE)  | 0             | Methylene Chloride                 | 0             |
| n-Butylbenzene                 | 0             | n-Butylbenzene(sim)                | 0             |

## Canister Cleaning Certification

Batch Id: 1672

Certified: ☒

QC Canister Id: 837

Certified Date: 11/11/2019 4:01:00 PM

Canister Ids: 12855, 12864, 172, 21339, 21345, 23326, 28556, 28581, 28610, 28625, 350, 837

Certified By: airlab

Certified Computer: CHEM13XP0609

Sample Id: blk 1672

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM24\11NOV\10\1111\_06.D\1111\_06-24AIR\_1110.rr

| Analyte                       | Result (ppbv) | Analyte                       | Result (ppbv) |
|-------------------------------|---------------|-------------------------------|---------------|
| n-Propylbenzene               | 0             | n-Propylbenzene(sim)          | 0             |
| Naphthalene                   | 0             | o-Xylene                      | 0             |
| Propylene                     | 0             | sec-Butylbenzene              | 0             |
| sec-Butylbenzene(sim)         | 0             | Styrene                       | 0             |
| tert-butyl alcohol            | 0             | tert-butylbenzene             | 0             |
| tert-butylbenzene(sim)        | 0             | Tetrachloroethene             | 0             |
| Tetrachloroethene(sim)        | 0             | Tetrahydrofuran               | 0             |
| Toluene                       | 0             | Trans-1,2-Dichloroethene      | 0             |
| Trans-1,2-Dichloroethene(sim) | 0             | trans-1,3-Dichloropropene     | 0             |
| Trichloroethene               | 0             | Trichloroethene(sim)          | 0             |
| Trichlorofluoromethane        | 0             | Trichlorofluoromethane(sim)   | 0             |
| Trichlorotrifluoroethane      | 0             | Trichlorotrifluoroethane(sim) | 0             |
| Vinyl Bromide                 | 0             | Vinyl Chloride                | 0             |
| Vinyl Chloride(sim)           | 0             |                               |               |

## Injection Log

Data Directory: H:\AIR2019\CHEM24\12DEC\03B\

| Line | VL | FileName  | SampleName | MiscInfo   | Injection Time |
|------|----|-----------|------------|------------|----------------|
| 1)   | 0  | 1207_10.D | XXXXXXXXXX |            | N/A            |
| 2)   | 4  | 1203_07.D | BFB TUNE   | 0/0        | 12/03/19 16:47 |
| 3)   | 3  | 1203_08.D | ICAL 0.02  | 0.02 ppbV  | 12/03/19 17:18 |
| 4)   | 4  | 1203_09.D | ICAL 0.035 | 0.035 ppbV | 12/03/19 17:49 |
| 5)   | 5  | 1203_10.D | ICAL 0.05  | 0.05 ppbV  | 12/03/19 18:20 |
| 6)   | 6  | 1203_11.D | ICAL 0.1   | 0.10 ppbV  | 12/03/19 18:52 |
| 7)   | 8  | 1203_12.D | ICAL 0.5   | 0.5ppbV    | 12/03/19 19:28 |
| 8)   | 10 | 1203_13.D | ICAL 2.5   | 2.5 ppbV   | 12/03/19 20:03 |
| 9)   | 11 | 1203_14.D | ICAL 5     | 5.0 ppbV   | 12/03/19 20:35 |
| 10)  | 13 | 1203_15.D | ICAL 25    | 25 ppbV    | 12/03/19 21:11 |
| 11)  | 14 | 1203_16.D | ICAL 40    | 40         | 12/03/19 21:50 |
| 12)  | 15 | 1203_17.D | XXXXXXXXXX |            | 12/03/19 22:20 |
| 13)  | 16 | 1203_18.D | ICAL 1     | 1ppb       | 12/03/19 22:53 |
| 14)  | 17 | 1203_19.D | ICAL 0.2   | 0.2ppb     | 12/03/19 23:24 |
| 15)  | 18 | 1203_20.D | ICAL 10    | 10ppb      | 12/04/19 0:43  |
| 16)  | 19 | 1203_21.D | XXXXXXXXXX |            | 12/04/19 1:19  |
| 17)  | 20 | 1203_22.D | XXXXXXXXXX |            | 12/04/19 1:50  |
| 18)  | 21 | 1203_23.D | XXXXXXXXXX |            | 12/04/19 2:20  |
| 19)  | 22 | 1203_24.D | XXXXXXXXXX |            | 12/04/19 2:56  |
| 20)  | 23 | 1203_25.D | XXXXXXXXXX |            | 12/04/19 3:32  |
| 21)  | 24 | 1203_26.D | XXXXXXXXXX |            | 12/04/19 4:08  |
| 22)  | 25 | 1203_27.D | XXXXXXXXXX |            | 12/04/19 4:39  |
| 23)  | 26 | 1203_28.D | XXXXXXXXXX |            | 12/04/19 5:11  |
| 24)  | 27 | 1203_29.D | XXXXXXXXXX |            | 12/04/19 8:52  |
| 25)  | 28 | 1203_30.D | XXXXXXXXXX |            | 12/04/19 9:28  |
| 26)  | 29 | 1203_31.D | XXXXXXXXXX |            | 12/04/19 10:00 |
| 27)  | 30 | 1203_32.D | XXXXXXXXXX |            | 12/04/19 10:32 |
| 28)  | 31 | 1203_33.D | XXXXXXXXXX |            | 12/04/19 11:04 |
| 29)  | 32 | 1203_34.D | XXXXXXXXXX |            | 12/04/19 12:19 |
| 30)  | 33 | 1203_35.D | XXXXXXXXXX |            | 12/04/19 12:55 |
| 31)  | 34 | 1203_36.D | XXXXXXXXXX |            | 12/04/19 14:07 |
| 32)  | 35 | 1203_37.D | XXXXXXXXXX |            | 12/04/19 14:39 |
| 33)  | 36 | 1203_38.D | XXXXXXXXXX |            | 12/04/19 15:11 |
| 34)  | 37 | 1203_39.D | XXXXXXXXXX |            | 12/04/19 15:42 |
| 35)  | 38 | 1203_40.D | XXXXXXXXXX |            | 12/04/19 16:18 |
| 36)  | 39 | 1203_41.D | XXXXXXXXXX |            | 12/04/19 16:50 |
| 37)  | 40 | 1203_42.D | XXXXXXXXXX |            | 12/04/19 17:22 |
| 38)  | 41 | 1203_43.D | XXXXXXXXXX |            | 12/04/19 17:54 |
| 39)  | 42 | 1204_01.D | XXXXXXXXXX |            | 12/04/19 18:25 |
| 40)  | 43 | 1204_02.D | XXXXXXXXXX |            | 12/04/19 18:57 |
| 41)  | 44 | 1204_03.D | XXXXXXXXXX |            | 12/04/19 19:28 |
| 42)  | 45 | 1204_04.D | XXXXXXXXXX |            | 12/04/19 20:00 |
| 43)  | 46 | 1204_05.D | XXXXXXXXXX |            | 12/04/19 20:34 |
| 44)  | 47 | 1204_06.D | XXXXXXXXXX |            | 12/04/19 21:10 |
| 45)  | 48 | 1204_07.D | XXXXXXXXXX |            | 12/04/19 21:41 |
| 46)  | 49 | 1204_08.D | XXXXXXXXXX |            | 12/04/19 22:11 |
| 47)  | 50 | 1204_09.D | XXXXXXXXXX |            | 12/04/19 22:47 |
| 48)  | 51 | 1204_10.D | XXXXXXXXXX |            | 12/05/19 9:05  |
| 49)  | 52 | 1204_11.D | XXXXXXXXXX |            | 12/05/19 9:41  |
| 50)  | 53 | 1204_12.D | XXXXXXXXXX |            | 12/05/19 10:17 |
| 51)  | 54 | 1204_13.D | XXXXXXXXXX |            | 12/05/19 10:53 |
| 52)  | 55 | 1204_14.D | XXXXXXXXXX |            | 12/05/19 11:29 |
| 53)  | 56 | 1204_15.D | XXXXXXXXXX |            | 12/05/19 12:05 |
| 54)  | 57 | 1204_16.D | XXXXXXXXXX |            | 12/05/19 12:58 |
| 55)  | 58 | 1204_17.D | XXXXXXXXXX |            | 12/05/19 13:34 |
| 56)  | 59 | 1204_18.D | XXXXXXXXXX |            | 12/05/19 14:10 |
| 57)  | 60 | 1204_19.D | XXXXXXXXXX |            | 12/05/19 15:12 |
| 58)  | 61 | 1204_20.D | XXXXXXXXXX |            | 12/05/19 16:09 |
| 59)  | 63 | 1205_01.D | XXXXXXXXXX |            | 12/05/19 16:42 |
| 60)  | 64 | 1205_02.D | XXXXXXXXXX |            | 12/05/19 17:15 |
| 61)  | 65 | 1205_03.D | XXXXXXXXXX |            | 12/05/19 18:23 |
| 62)  | 66 | 1205_04.D | XXXXXXXXXX |            | 12/05/19 18:54 |
| 63)  | 67 | 1205_05.D | XXXXXXXXXX |            | 12/05/19 19:25 |
| 64)  | 68 | 1205_06.D | XXXXXXXXXX |            | 12/05/19 20:04 |
| 65)  | 69 | 1205_07.D | XXXXXXXXXX |            | 12/05/19 20:44 |
| 66)  | 70 | 1205_08.D | XXXXXXXXXX |            | 12/05/19 21:20 |
| 67)  | 71 | 1205_09.D | XXXXXXXXXX |            | 12/05/19 21:57 |
| 68)  | 72 | 1205_10.D | XXXXXXXXXX |            | 12/05/19 22:38 |

|      |     |           |                      |                   |          |       |
|------|-----|-----------|----------------------|-------------------|----------|-------|
| 69)  | 73  | 1205_11.D | XXXXXXXXXX           |                   | 12/05/19 | 23:10 |
| 70)  | 74  | 1205_12.D | XXXXXXXXXX           |                   | 12/05/19 | 23:41 |
| 71)  | 75  | 1205_13.D | XXXXXXXXXX           |                   | 12/06/19 | 0:59  |
| 72)  | 76  | 1205_14.D | XXXXXXXXXX           |                   | 12/06/19 | 1:31  |
| 73)  | 77  | 1205_15.D | XXXXXXXXXX           |                   | 12/06/19 | 2:04  |
| 74)  | 78  | 1205_16.D | XXXXXXXXXX           |                   | 12/06/19 | 2:36  |
| 75)  | 79  | 1205_17.D | XXXXXXXXXX           |                   | 12/06/19 | 3:08  |
| 76)  | 80  | 1205_18.D | XXXXXXXXXX           |                   | 12/06/19 | 3:40  |
| 77)  | 81  | 1205_19.D | XXXXXXXXXX           |                   | 12/06/19 | 4:13  |
| 78)  | 82  | 1205_20.D | XXXXXXXXXX           |                   | 12/06/19 | 4:45  |
| 79)  | 83  | 1205_21.D | XXXXXXXXXX           |                   | 12/06/19 | 5:17  |
| 80)  | 84  | 1205_22.D | XXXXXXXXXX           |                   | 12/06/19 | 5:49  |
| 81)  | 85  | 1205_23.D | XXXXXXXXXX           |                   | 12/06/19 | 6:22  |
| 82)  | 86  | 1205_24.D | XXXXXXXXXX           |                   | 12/06/19 | 6:54  |
| 83)  | 87  | 1205_25.D | XXXXXXXXXX           |                   | 12/06/19 | 7:26  |
| 84)  | 88  | 1205_26.D | XXXXXXXXXX           |                   | 12/06/19 | 7:59  |
| 85)  | 89  | 1205_27.D | XXXXXXXXXX           |                   | 12/06/19 | 10:22 |
| 86)  | 90  | 1205_28.D | XXXXXXXXXX           |                   | 12/06/19 | 10:58 |
| 87)  | 91  | 1205_29.D | XXXXXXXXXX           |                   | 12/06/19 | 11:35 |
| 88)  | 92  | 1205_30.D | XXXXXXXXXX           |                   | 12/06/19 | 12:11 |
| 89)  | 93  | 1205_31.D | XXXXXXXXXX           |                   | 12/06/19 | 12:47 |
| 90)  | 94  | 1205_32.D | XXXXXXXXXX           |                   | 12/06/19 | 13:24 |
| 91)  | 95  | 1205_33.D | XXXXXXXXXX           |                   | 12/06/19 | 14:00 |
| 92)  | 96  | 1205_34.D | XXXXXXXXXX           |                   | 12/06/19 | 14:36 |
| 93)  | 97  | 1206_01.D | BFB TUNE - CCAL 1    | 1ppb cc - 1ppb cc | 12/06/19 | 15:09 |
| 94)  | 98  | 1206_02.D | XXXXXXXXXX           |                   | 12/06/19 | 15:42 |
| 95)  | 99  | 1206_03.D | XXXXXXXXXX           |                   | 12/06/19 | 16:27 |
| 96)  | 100 | 1206_04.D | CE81147 LCS          | CE81147 LCS       | 12/06/19 | 17:03 |
| 97)  | 101 | 1206_05.D | XXXXXXXXXX           |                   | 12/06/19 | 17:34 |
| 98)  | 102 | 1206_06.D | CE81147 BLANK        | CE81147 BLANK     | 12/06/19 | 18:05 |
| 99)  | 103 | 1206_07.D | HAIR SALON IA-4      | CE81146           | 12/06/19 | 18:46 |
| 100) | 104 | 1206_08.D | DRY CLEANER IA-3     | CE81147           | 12/06/19 | 19:22 |
| 101) | 105 | 1206_09.D | DRY CLEANER IA-3 DUP | CE81147 DUP       | 12/06/19 | 19:58 |
| 102) | 106 | 1206_10.D | TILE STORE IA-6      | CE81148           | 12/06/19 | 20:34 |
| 103) | 107 | 1206_11.D | HAIR SALON IA-4 DUP  | CE81149           | 12/06/19 | 21:16 |
| 104) | 108 | 1206_12.D | OUTDOOR AIR          | CE81152           | 12/06/19 | 21:52 |
| 105) | 109 | 1206_13.D | XXXXXXXXXX           |                   | 12/06/19 | 22:24 |
| 106) | 110 | 1206_14.D | XXXXXXXXXX           |                   | 12/07/19 | 0:27  |
| 107) | 111 | 1206_15.D | XXXXXXXXXX           |                   | 12/07/19 | 1:32  |
| 108) | 112 | 1206_16.D | XXXXXXXXXX           |                   | 12/07/19 | 2:04  |
| 109) | 113 | 1206_17.D | XXXXXXXXXX           |                   | 12/07/19 | 2:36  |
| 110) | 114 | 1206_18.D | XXXXXXXXXX           |                   | 12/07/19 | 3:12  |
| 111) | 115 | 1206_19.D | XXXXXXXXXX           |                   | 12/07/19 | 3:48  |
| 112) | 116 | 1206_20.D | XXXXXXXXXX           |                   | 12/07/19 | 4:25  |
| 113) | 117 | 1206_21.D | XXXXXXXXXX           |                   | 12/07/19 | 5:01  |
| 114) | 118 | 1206_22.D | XXXXXXXXXX           |                   | 12/07/19 | 5:38  |
| 115) | 119 | 1206_23.D | XXXXXXXXXX           |                   | 12/07/19 | 6:14  |
| 116) | 120 | 1206_24.D | XXXXXXXXXX           |                   | 12/07/19 | 6:51  |
| 117) | 121 | 1206_25.D | XXXXXXXXXX           |                   | 12/07/19 | 7:27  |
| 118) | 122 | 1206_26.D | XXXXXXXXXX           |                   | 12/07/19 | 8:04  |
| 119) | 123 | 1206_27.D | XXXXXXXXXX           |                   | 12/07/19 | 8:35  |
| 120) | 124 | 1206_28.D | XXXXXXXXXX           |                   | 12/07/19 | 9:08  |
| 121) | 125 | 1206_29.D | XXXXXXXXXX           |                   | 12/07/19 | 9:42  |
| 122) | 126 | 1207_01.D | XXXXXXXXXX           |                   | 12/07/19 | 10:14 |
| 123) | 127 | 1207_02.D | XXXXXXXXXX           |                   | 12/07/19 | 10:48 |
| 124) | 128 | 1207_03.D | XXXXXXXXXX           |                   | 12/07/19 | 11:21 |
| 125) | 129 | 1207_04.D | XXXXXXXXXX           |                   | 12/07/19 | 11:58 |
| 126) | 130 | 1207_05.D | XXXXXXXXXX           |                   | 12/07/19 | 12:29 |
| 127) | 131 | 1207_06.D | XXXXXXXXXX           |                   | 12/07/19 | 13:01 |
| 128) | 132 | 1207_07.D | XXXXXXXXXX           |                   | 12/07/19 | 13:38 |
| 129) | 133 | 1207_08.D | XXXXXXXXXX           |                   | 12/07/19 | 14:15 |
| 130) | 134 | 1207_09.D | XXXXXXXXXX           |                   | 12/07/19 | 14:51 |

## Injection Log

Data Directory: H:\AIR2019\CHEM24\12DEC\07A\

| Line | Vl | FileName  | SampleName | MiscInfo   | Injection Time |
|------|----|-----------|------------|------------|----------------|
| 1)   | 0  | 1207_18.D | XXXXXXXXXX |            | N/A            |
| 2)   | 4  | 1207_01.D | XXXXXXXXXX |            | 12/07/19 15:35 |
| 3)   | 5  | 1207_02.D | BFB TUNE   | 0/0        | 12/07/19 16:06 |
| 4)   | 3  | 1207_03.D | ICAL 0.02  | 0.02 ppbV  | 12/07/19 16:38 |
| 5)   | 4  | 1207_04.D | ICAL 0.035 | 0.035 ppbV | 12/07/19 17:10 |
| 6)   | 5  | 1207_05.D | ICAL 0.05  | 0.05 ppbV  | 12/07/19 17:42 |
| 7)   | 6  | 1207_06.D | ICAL 0.1   | 0.10 ppbV  | 12/07/19 18:14 |
| 8)   | 8  | 1207_07.D | ICAL 0.5   | 0.5ppbV    | 12/07/19 18:52 |
| 9)   | 10 | 1207_08.D | ICAL 2.5   | 2.5 ppbV   | 12/07/19 19:29 |
| 10)  | 11 | 1207_09.D | ICAL 5     | 5.0 ppbV   | 12/07/19 20:02 |
| 11)  | 13 | 1207_10.D | ICAL 25    | 25 ppbV    | 12/07/19 20:38 |
| 12)  | 14 | 1207_11.D | ICAL 40    | 40         | 12/07/19 21:18 |
| 13)  | 15 | 1207_12.D | XXXXXXXXXX |            | 12/07/19 21:49 |
| 14)  | 16 | 1207_13.D | ICAL 1     | 1ppb       | 12/07/19 22:22 |
| 15)  | 17 | 1207_14.D | ICAL 0.2   | 0.2ppb     | 12/07/19 22:56 |
| 16)  | 18 | 1207_15.D | ICAL 10    | 10ppb      | 12/07/19 23:28 |
| 17)  | 19 | 1207_16.D | XXXXXXXXXX |            | 12/08/19 0:51  |
| 18)  | 20 | 1207_17.D | XXXXXXXXXX |            | 12/08/19 1:22  |

## Injection Log

Data Directory: H:\AIR2019\CHEM24\11NOV\10\

| Line | Vl | FileName   | SampleName        | MiscInfo          | Injection Time |
|------|----|------------|-------------------|-------------------|----------------|
| 1)   | 0  | 1115_14.D  | XXXXXXXXXX        |                   | N/A            |
| 2)   | 22 | 1106_35.D  | XXXXXXXXXX        |                   | 11/11/01 ::4   |
| 3)   | 3  | 1110_01.D  | XXXXXXXXXX        |                   | 11/10/19 16:05 |
| 4)   | 4  | 1110_02.D  | XXXXXXXXXX        |                   | 11/10/19 16:36 |
| 5)   | 5  | 1110_03.D  | XXXXXXXXXX        |                   | 11/10/19 17:08 |
| 6)   | 6  | 1110_04.D  | XXXXXXXXXX        |                   | 11/10/19 17:40 |
| 7)   | 8  | 1110_05.D  | XXXXXXXXXX        |                   | 11/10/19 18:16 |
| 8)   | 10 | 1110_06.D  | XXXXXXXXXX        |                   | 11/10/19 18:52 |
| 9)   | 11 | 1110_07.D  | XXXXXXXXXX        |                   | 11/10/19 19:24 |
| 10)  | 13 | 1110_08.D  | XXXXXXXXXX        |                   | 11/10/19 20:00 |
| 11)  | 14 | 1110_09.D  | XXXXXXXXXX        |                   | 11/10/19 20:39 |
| 12)  | 15 | 1110_10.D  | XXXXXXXXXX        |                   | 11/10/19 21:10 |
| 13)  | 16 | 1110_11.D  | XXXXXXXXXX        |                   | 11/10/19 21:43 |
| 14)  | 17 | 1110_12.D  | XXXXXXXXXX        |                   | 11/10/19 22:16 |
| 15)  | 18 | 1110_13.D  | XXXXXXXXXX        |                   | 11/10/19 22:49 |
| 16)  | 19 | 1110_14.D  | XXXXXXXXXX        |                   | 11/10/19 23:24 |
| 17)  | 20 | 1110_15.D  | XXXXXXXXXX        |                   | 11/11/19 0:41  |
| 18)  | 21 | 1110_16.D  | XXXXXXXXXX        |                   | 11/11/19 1:11  |
| 19)  | 22 | 1110_17.D  | CANISTER BLK 1671 | CANISTER BLK 1671 | 11/11/19 1:47  |
| 20)  | 23 | 1110_18.D  | XXXXXXXXXX        |                   | 11/11/19 2:34  |
| 21)  | 24 | 1110_19.D  | XXXXXXXXXX        |                   | 11/11/19 3:20  |
| 22)  | 25 | 1110_20.D  | XXXXXXXXXX        |                   | 11/11/19 4:06  |
| 23)  | 26 | 1110_21.D  | XXXXXXXXXX        |                   | 11/11/19 4:39  |
| 24)  | 27 | 1110_22.D  | XXXXXXXXXX        |                   | 11/11/19 5:12  |
| 25)  | 28 | 1110_23.D  | XXXXXXXXXX        |                   | 11/11/19 5:44  |
| 26)  | 29 | 1110_24.D  | XXXXXXXXXX        |                   | 11/11/19 6:17  |
| 27)  | 30 | 1110_25.D  | XXXXXXXXXX        |                   | 11/11/19 6:58  |
| 28)  | 31 | 1110_26.D  | XXXXXXXXXX        |                   | 11/11/19 7:39  |
| 29)  | 32 | 1110_27.D  | XXXXXXXXXX        |                   | 11/11/19 8:11  |
| 30)  | 32 | 1110_27A.D | XXXXXXXXXX        |                   | 11/11/19 8:43  |
| 31)  | 33 | 1110_28.D  | XXXXXXXXXX        |                   | 11/11/19 9:15  |
| 32)  | 34 | 1110_29.D  | XXXXXXXXXX        |                   | 11/11/19 9:48  |
| 33)  | 35 | 1110_30.D  | XXXXXXXXXX        |                   | 11/11/19 10:20 |
| 34)  | 36 | 1110_31.D  | XXXXXXXXXX        |                   | 11/11/19 10:56 |
| 35)  | 37 | 1110_32.D  | XXXXXXXXXX        |                   | 11/11/19 11:32 |
| 36)  | 38 | 1110_33.D  | XXXXXXXXXX        |                   | 11/11/19 12:07 |
| 37)  | 39 | 1111_01.D  | XXXXXXXXXX        |                   | 11/11/19 12:59 |
| 38)  | 40 | 1111_02.D  | XXXXXXXXXX        |                   | 11/11/19 13:32 |
| 39)  | 41 | 1111_03.D  | XXXXXXXXXX        |                   | 11/11/19 14:23 |
| 40)  | 42 | 1111_04.D  | XXXXXXXXXX        |                   | 11/11/19 14:54 |
| 41)  | 43 | 1111_05.D  | XXXXXXXXXX        |                   | 11/11/19 15:25 |
| 42)  | 44 | 1111_06.D  | CANISTER BLK 1672 | CANISTER BLK 1672 | 11/11/19 16:01 |
| 43)  | 45 | 1111_07.D  | XXXXXXXXXX        |                   | 11/11/19 16:42 |
| 44)  | 46 | 1111_08.D  | XXXXXXXXXX        |                   | 11/11/19 17:18 |
| 45)  | 47 | 1111_09.D  | XXXXXXXXXX        |                   | 11/11/19 18:06 |
| 46)  | 48 | 1111_10.D  | XXXXXXXXXX        |                   | 11/11/19 18:42 |
| 47)  | 49 | 1111_11.D  | XXXXXXXXXX        |                   | 11/11/19 19:18 |
| 48)  | 50 | 1111_12.D  | XXXXXXXXXX        |                   | 11/11/19 19:54 |
| 49)  | 51 | 1111_13.D  | XXXXXXXXXX        |                   | 11/11/19 20:31 |
| 50)  | 52 | 1111_14.D  | XXXXXXXXXX        |                   | 11/11/19 21:07 |
| 51)  | 53 | 1111_15.D  | XXXXXXXXXX        |                   | 11/11/19 21:48 |
| 52)  | 54 | 1111_16.D  | XXXXXXXXXX        |                   | 11/11/19 22:25 |
| 53)  | 55 | 1111_17.D  | XXXXXXXXXX        |                   | 11/11/19 23:00 |
| 54)  | 56 | 1111_18.D  | XXXXXXXXXX        |                   | 11/12/19 0:23  |
| 55)  | 57 | 1111_19.D  | XXXXXXXXXX        |                   | 11/12/19 0:59  |
| 56)  | 58 | 1111_20.D  | XXXXXXXXXX        |                   | 11/12/19 1:35  |
| 57)  | 59 | 1111_21.D  | XXXXXXXXXX        |                   | 11/12/19 2:11  |
| 58)  | 60 | 1111_22.D  | XXXXXXXXXX        |                   | 11/12/19 2:46  |
| 59)  | 61 | 1111_23.D  | XXXXXXXXXX        |                   | 11/12/19 3:22  |
| 60)  | 62 | 1111_24.D  | XXXXXXXXXX        |                   | 11/12/19 3:58  |
| 61)  | 63 | 1111_25.D  | XXXXXXXXXX        |                   | 11/12/19 4:34  |
| 62)  | 64 | 1111_26.D  | XXXXXXXXXX        |                   | 11/12/19 9:06  |
| 63)  | 65 | 1111_27.D  | XXXXXXXXXX        |                   | 11/12/19 9:56  |
| 64)  | 66 | 1112_01.D  | XXXXXXXXXX        |                   | 11/12/19 10:31 |
| 65)  | 67 | 1112_02.D  | XXXXXXXXXX        |                   | 11/12/19 11:04 |
| 66)  | 68 | 1112_03.D  | XXXXXXXXXX        |                   | 11/12/19 11:39 |
| 67)  | 69 | 1112_04.D  | XXXXXXXXXX        |                   | 11/12/19 12:10 |
| 68)  | 70 | 1112_05.D  | XXXXXXXXXX        |                   | 11/12/19 12:40 |

|      |     |           |            |          |       |
|------|-----|-----------|------------|----------|-------|
| 69)  | 71  | 1112_06.D | XXXXXXXXXX | 11/12/19 | 13:12 |
| 70)  | 72  | 1112_07.D | XXXXXXXXXX | 11/12/19 | 13:44 |
| 71)  | 73  | 1112_08.D | XXXXXXXXXX | 11/12/19 | 14:20 |
| 72)  | 74  | 1112_09.D | XXXXXXXXXX | 11/12/19 | 14:56 |
| 73)  | 75  | 1112_10.D | XXXXXXXXXX | 11/12/19 | 15:32 |
| 74)  | 76  | 1112_11.D | XXXXXXXXXX | 11/12/19 | 16:08 |
| 75)  | 77  | 1112_12.D | XXXXXXXXXX | 11/12/19 | 16:44 |
| 76)  | 78  | 1112_13.D | XXXXXXXXXX | 11/12/19 | 17:19 |
| 77)  | 79  | 1112_14.D | XXXXXXXXXX | 11/12/19 | 17:55 |
| 78)  | 80  | 1112_15.D | XXXXXXXXXX | 11/12/19 | 18:31 |
| 79)  | 81  | 1112_16.D | XXXXXXXXXX | 11/12/19 | 19:07 |
| 80)  | 82  | 1112_17.D | XXXXXXXXXX | 11/12/19 | 19:44 |
| 81)  | 83  | 1112_18.D | XXXXXXXXXX | 11/12/19 | 20:20 |
| 82)  | 84  | 1112_19.D | XXXXXXXXXX | 11/12/19 | 20:56 |
| 83)  | 85  | 1112_20.D | XXXXXXXXXX | 11/12/19 | 21:33 |
| 84)  | 86  | 1112_21.D | XXXXXXXXXX | 11/12/19 | 22:09 |
| 85)  | 87  | 1112_22.D | XXXXXXXXXX | 11/12/19 | 22:41 |
| 86)  | 88  | 1112_23.D | XXXXXXXXXX | 11/12/19 | 23:13 |
| 87)  | 89  | 1112_24.D | XXXXXXXXXX | 11/13/19 | 7:31  |
| 88)  | 90  | 1112_25.D | XXXXXXXXXX | 11/13/19 | 9:07  |
| 89)  | 91  | 1112_26.D | XXXXXXXXXX | 11/13/19 | 9:40  |
| 90)  | 92  | 1112_27.D | XXXXXXXXXX | 11/13/19 | 10:13 |
| 91)  | 93  | 1112_28.D | XXXXXXXXXX | 11/13/19 | 10:49 |
| 92)  | 94  | 1112_29.D | XXXXXXXXXX | 11/13/19 | 11:27 |
| 93)  | 95  | 1112_30.D | XXXXXXXXXX | 11/13/19 | 11:59 |
| 94)  | 96  | 1112_31.D | XXXXXXXXXX | 11/13/19 | 12:35 |
| 95)  | 97  | 1112_32.D | XXXXXXXXXX | 11/13/19 | 13:11 |
| 96)  | 98  | 1112_33.D | XXXXXXXXXX | 11/13/19 | 13:48 |
| 97)  | 99  | 1112_34.D | XXXXXXXXXX | 11/13/19 | 14:33 |
| 98)  | 100 | 1112_35.D | XXXXXXXXXX | 11/13/19 | 15:06 |
| 99)  | 101 | 1112_36.D | XXXXXXXXXX | 11/13/19 | 15:38 |
| 100) | 102 | 1112_37.D | XXXXXXXXXX | 11/13/19 | 16:10 |
| 101) | 103 | 1112_38.D | XXXXXXXXXX | 11/13/19 | 16:42 |
| 102) | 104 | 1112_39.D | XXXXXXXXXX | 11/13/19 | 17:18 |
| 103) | 105 | 1112_40.D | XXXXXXXXXX | 11/13/19 | 17:54 |
| 104) | 106 | 1112_41.D | XXXXXXXXXX | 11/13/19 | 18:30 |
| 105) | 107 | 1112_42.D | XXXXXXXXXX | 11/13/19 | 19:06 |
| 106) | 108 | 1112_43.D | XXXXXXXXXX | 11/13/19 | 19:43 |
| 107) | 109 | 1112_44.D | XXXXXXXXXX | 11/13/19 | 20:15 |
| 108) | 110 | 1112_45.D | XXXXXXXXXX | 11/13/19 | 20:47 |
| 109) | 111 | 1112_46.D | XXXXXXXXXX | 11/13/19 | 21:23 |
| 110) | 112 | 1112_47.D | XXXXXXXXXX | 11/13/19 | 21:59 |
| 111) | 113 | 1112_48.D | XXXXXXXXXX | 11/13/19 | 22:36 |
| 112) | 114 | 1112_49.D | XXXXXXXXXX | 11/13/19 | 23:12 |
| 113) | 115 | 1112_50.D | XXXXXXXXXX | 11/13/19 | 23:47 |
| 114) | 116 | 1112_51.D | XXXXXXXXXX | 11/14/19 | 1:09  |
| 115) | 117 | 1112_52.D | XXXXXXXXXX | 11/14/19 | 1:45  |
| 116) | 118 | 1112_53.D | XXXXXXXXXX | 11/14/19 | 2:22  |
| 117) | 119 | 1112_54.D | XXXXXXXXXX | 11/14/19 | 2:58  |
| 118) | 120 | 1112_55.D | XXXXXXXXXX | 11/14/19 | 3:30  |
| 119) | 121 | 1112_56.D | XXXXXXXXXX | 11/14/19 | 4:00  |
| 120) | 122 | 1113_01.D | XXXXXXXXXX | 11/14/19 | 4:34  |
| 121) | 123 | 1113_02.D | XXXXXXXXXX | 11/14/19 | 5:07  |
| 122) | 124 | 1113_03.D | XXXXXXXXXX | 11/14/19 | 5:43  |
| 123) | 125 | 1113_04.D | XXXXXXXXXX | 11/14/19 | 6:13  |
| 124) | 126 | 1113_05.D | XXXXXXXXXX | 11/14/19 | 6:44  |
| 125) | 127 | 1113_06.D | XXXXXXXXXX | 11/14/19 | 11:17 |
| 126) | 128 | 1113_07.D | XXXXXXXXXX | 11/14/19 | 12:08 |
| 127) | 129 | 1113_08.D | XXXXXXXXXX | 11/14/19 | 12:38 |
| 128) | 129 | 1113_09.D | XXXXXXXXXX | 11/14/19 | 13:10 |
| 129) | 130 | 1113_10.D | XXXXXXXXXX | 11/14/19 | 13:49 |
| 130) | 131 | 1113_11.D | XXXXXXXXXX | 11/14/19 | 14:25 |
| 131) | 132 | 1113_12.D | XXXXXXXXXX | 11/14/19 | 14:57 |
| 132) | 133 | 1113_13.D | XXXXXXXXXX | 11/14/19 | 15:29 |
| 133) | 134 | 1113_14.D | XXXXXXXXXX | 11/14/19 | 16:01 |
| 134) | 135 | 1113_15.D | XXXXXXXXXX | 11/14/19 | 16:37 |
| 135) | 136 | 1113_16.D | XXXXXXXXXX | 11/14/19 | 17:13 |
| 136) | 137 | 1113_17.D | XXXXXXXXXX | 11/14/19 | 17:49 |
| 137) | 138 | 1113_18.D | XXXXXXXXXX | 11/14/19 | 18:26 |
| 138) | 139 | 1113_19.D | XXXXXXXXXX | 11/14/19 | 19:02 |
| 139) | 140 | 1113_20.D | XXXXXXXXXX | 11/14/19 | 19:40 |
| 140) | 141 | 1113_21.D | XXXXXXXXXX | 11/14/19 | 20:11 |
| 141) | 142 | 1113_22.D | XXXXXXXXXX | 11/14/19 | 20:42 |
| 142) | 143 | 1113_23.D | XXXXXXXXXX | 11/14/19 | 22:40 |
| 143) | 144 | 1113_24.D | XXXXXXXXXX | 11/14/19 | 23:11 |

|      |     |           |              |          |       |
|------|-----|-----------|--------------|----------|-------|
| 144) | 145 | 1113_25.D | XXXXXXXXXXXX | 11/15/19 | 0:31  |
| 145) | 146 | 1113_26.D | XXXXXXXXXXXX | 11/15/19 | 1:07  |
| 146) | 147 | 1113_27.D | XXXXXXXXXXXX | 11/15/19 | 1:38  |
| 147) | 148 | 1113_28.D | XXXXXXXXXXXX | 11/15/19 | 2:08  |
| 148) | 149 | 1113_29.D | XXXXXXXXXXXX | 11/15/19 | 2:45  |
| 149) | 150 | 1113_30.D | XXXXXXXXXXXX | 11/15/19 | 3:21  |
| 150) | 151 | 1113_31.D | XXXXXXXXXXXX | 11/15/19 | 9:34  |
| 151) | 152 | 1113_32.D | XXXXXXXXXXXX | 11/15/19 | 10:10 |
| 152) | 153 | 1113_33.D | XXXXXXXXXXXX | 11/15/19 | 10:41 |
| 153) | 154 | 1113_34.D | XXXXXXXXXXXX | 11/15/19 | 11:13 |
| 154) | 155 | 1113_35.D | XXXXXXXXXXXX | 11/15/19 | 11:49 |
| 155) | 156 | 1113_36.D | XXXXXXXXXXXX | 11/15/19 | 12:50 |
| 156) | 157 | 1113_37.D | XXXXXXXXXXXX | 11/15/19 | 13:26 |
| 157) | 158 | 1113_38.D | XXXXXXXXXXXX | 11/15/19 | 14:02 |
| 158) | 159 | 1113_39.D | XXXXXXXXXXXX | 11/15/19 | 14:37 |
| 159) | 160 | 1113_40.D | XXXXXXXXXXXX | 11/15/19 | 15:14 |
| 160) | 161 | 1113_41.D | XXXXXXXXXXXX | 11/15/19 | 15:50 |
| 161) | 162 | 1113_42.D | XXXXXXXXXXXX | 11/15/19 | 16:26 |
| 162) | 163 | 1113_43.D | XXXXXXXXXXXX | 11/15/19 | 17:03 |
| 163) | 164 | 1113_44.D | XXXXXXXXXXXX | 11/15/19 | 17:39 |
| 164) | 165 | 1113_45.D | XXXXXXXXXXXX | 11/15/19 | 18:11 |
| 165) | 166 | 1113_46.D | XXXXXXXXXXXX | 11/15/19 | 18:43 |
| 166) | 167 | 1113_47.D | XXXXXXXXXXXX | 11/15/19 | 19:15 |
| 167) | 168 | 1113_48.D | XXXXXXXXXXXX | 11/15/19 | 19:47 |
| 168) | 169 | 1113_49.D | XXXXXXXXXXXX | 11/15/19 | 20:19 |
| 169) | 170 | 1113_50.D | XXXXXXXXXXXX | 11/15/19 | 20:51 |
| 170) | 171 | 1113_51.D | XXXXXXXXXXXX | 11/15/19 | 21:24 |
| 171) | 172 | 1113_52.D | XXXXXXXXXXXX | 11/15/19 | 21:56 |
| 172) | 173 | 1113_53.D | XXXXXXXXXXXX | 11/15/19 | 22:27 |
| 173) | 174 | 1115_01.D | XXXXXXXXXXXX | 11/15/19 | 23:00 |
| 174) | 175 | 1115_02.D | XXXXXXXXXXXX | 11/15/19 | 23:32 |
| 175) | 176 | 1115_03.D | XXXXXXXXXXXX | 11/16/19 | 0:54  |
| 176) | 177 | 1115_04.D | XXXXXXXXXXXX | 11/16/19 | 1:25  |
| 177) | 178 | 1115_05.D | XXXXXXXXXXXX | 11/16/19 | 1:56  |
| 178) | 179 | 1115_06.D | XXXXXXXXXXXX | 11/16/19 | 2:32  |
| 179) | 180 | 1115_07.D | XXXXXXXXXXXX | 11/16/19 | 3:08  |
| 180) | 181 | 1115_08.D | XXXXXXXXXXXX | 11/16/19 | 3:40  |
| 181) | 182 | 1115_09.D | XXXXXXXXXXXX | 11/16/19 | 4:13  |
| 182) | 183 | 1115_10.D | XXXXXXXXXXXX | 11/16/19 | 4:45  |
| 183) | 184 | 1115_11.D | XXXXXXXXXXXX | 11/16/19 | 5:17  |
| 184) | 185 | 1115_12.D | XXXXXXXXXXXX | 11/16/19 | 15:54 |
| 185) | 186 | 1115_13.D | XXXXXXXXXXXX | 11/16/19 | 16:26 |



## Injection Log

Data Directory: H:\AIR2019\CHEM24\12DEC\08\

| Line | VL | FileName  | SampleName          | MiscInfo            | Injection Time |
|------|----|-----------|---------------------|---------------------|----------------|
| 1)   | 0  | 1211_02.D | XXXXXXXXXX          |                     | N/A            |
| 2)   | 1  | 1208_01.D | XXXXXXXXXX          |                     | 12/08/19 22:28 |
| 3)   | 2  | 1208_02.D | BFB TUNE - CCAL 1   | 1ppb cc ; 31w - 1pp | 12/08/19 23:01 |
| 4)   | 3  | 1208_03.D | XXXXXXXXXX          |                     | 12/08/19 23:32 |
| 5)   | 4  | 1208_04.D | CE81151 LCS         | CE81151 LCS         | 12/09/19 0:55  |
| 6)   | 5  | 1208_05.D | XXXXXXXXXX          |                     | 12/09/19 1:31  |
| 7)   | 7  | 1208_06.D | XXXXXXXXXX          |                     | 12/09/19 2:01  |
| 8)   | 8  | 1208_07.D | CE81151 BLANK       | CE81151 BLANK       | 12/09/19 2:32  |
| 9)   | 9  | 1208_08.D | XXXXXXXXXX          |                     | 12/09/19 3:06  |
| 10)  | 10 | 1208_09.D | XXXXXXXXXX          |                     | 12/09/19 9:06  |
| 11)  | 11 | 1208_10.D | DRY CLEANER VP-3    | CE81145             | 12/09/19 9:53  |
| 12)  | 12 | 1208_11.D | XXXXXXXXXX          |                     | 12/09/19 10:34 |
| 13)  | 13 | 1208_12.D | HAIR SALON VP-4     | CE81151             | 12/09/19 11:23 |
| 14)  | 14 | 1208_13.D | HAIR SALON VP-4 DUP | CE81151 DUP         | 12/09/19 11:59 |
| 15)  | 14 | 1208_14.D | VP-6 TILE STORE     | CE81150             | 12/09/19 13:14 |
| 16)  | 15 | 1208_15.D | XXXXXXXXXX          |                     | 12/09/19 13:51 |
| 17)  | 15 | 1208_16.D | XXXXXXXXXX          |                     | 12/09/19 14:29 |
| 18)  | 15 | 1208_17.D | XXXXXXXXXX          |                     | 12/09/19 15:05 |
| 19)  | 16 | 1208_18.D | XXXXXXXXXX          |                     | 12/09/19 15:42 |
| 20)  | 17 | 1208_19.D | XXXXXXXXXX          |                     | 12/09/19 16:18 |
| 21)  | 18 | 1208_20.D | XXXXXXXXXX          |                     | 12/09/19 16:54 |
| 22)  | 19 | 1208_21.D | XXXXXXXXXX          |                     | 12/09/19 17:35 |
| 23)  | 20 | 1208_22.D | XXXXXXXXXX          |                     | 12/09/19 18:12 |
| 24)  | 21 | 1208_23.D | XXXXXXXXXX          |                     | 12/09/19 18:49 |
| 25)  | 22 | 1208_24.D | XXXXXXXXXX          |                     | 12/09/19 19:25 |
| 26)  | 23 | 1208_25.D | XXXXXXXXXX          |                     | 12/09/19 19:56 |
| 27)  | 24 | 1208_26.D | XXXXXXXXXX          |                     | 12/09/19 20:29 |
| 28)  | 25 | 1208_27.D | XXXXXXXXXX          |                     | 12/09/19 21:03 |
| 29)  | 26 | 1208_28.D | XXXXXXXXXX          |                     | 12/09/19 21:39 |
| 30)  | 27 | 1208_29.D | XXXXXXXXXX          |                     | 12/09/19 22:10 |
| 31)  | 28 | 1208_30.D | XXXXXXXXXX          |                     | 12/09/19 22:41 |
| 32)  | 29 | 1208_31.D | XXXXXXXXXX          |                     | 12/09/19 23:15 |
| 33)  | 30 | 1208_32.D | XXXXXXXXXX          |                     | 12/09/19 23:51 |
| 34)  | 31 | 1208_33.D | XXXXXXXXXX          |                     | 12/10/19 0:33  |
| 35)  | 32 | 1208_34.D | XXXXXXXXXX          |                     | 12/10/19 1:14  |
| 36)  | 33 | 1208_35.D | XXXXXXXXXX          |                     | 12/10/19 8:44  |
| 37)  | 34 | 1208_36.D | XXXXXXXXXX          |                     | 12/10/19 9:20  |
| 38)  | 35 | 1208_37.D | XXXXXXXXXX          |                     | 12/10/19 9:56  |
| 39)  | 36 | 1208_38.D | XXXXXXXXXX          |                     | 12/10/19 10:32 |
| 40)  | 37 | 1208_39.D | XXXXXXXXXX          |                     | 12/10/19 11:08 |
| 41)  | 38 | 1208_40.D | XXXXXXXXXX          |                     | 12/10/19 11:44 |
| 42)  | 39 | 1208_41.D | XXXXXXXXXX          |                     | 12/10/19 12:20 |
| 43)  | 40 | 1208_42.D | XXXXXXXXXX          |                     | 12/10/19 12:56 |
| 44)  | 41 | 1208_43.D | XXXXXXXXXX          |                     | 12/10/19 13:28 |
| 45)  | 41 | 1208_44.D | XXXXXXXXXX          |                     | 12/10/19 13:59 |
| 46)  | 42 | 1208_45.D | XXXXXXXXXX          |                     | 12/10/19 14:31 |
| 47)  | 43 | 1208_46.D | XXXXXXXXXX          |                     | 12/10/19 15:03 |
| 48)  | 44 | 1208_47.D | XXXXXXXXXX          |                     | 12/10/19 15:34 |
| 49)  | 45 | 1208_48.D | XXXXXXXXXX          |                     | 12/10/19 16:10 |
| 50)  | 46 | 1208_49.D | XXXXXXXXXX          |                     | 12/10/19 16:45 |
| 51)  | 47 | 1208_50.D | XXXXXXXXXX          |                     | 12/10/19 17:17 |
| 52)  | 48 | 1208_51.D | XXXXXXXXXX          |                     | 12/10/19 17:53 |
| 53)  | 49 | 1208_52.D | XXXXXXXXXX          |                     | 12/10/19 18:24 |
| 54)  | 49 | 1210_01.D | XXXXXXXXXX          |                     | 12/10/19 18:54 |
| 55)  | 50 | 1210_02.D | XXXXXXXXXX          |                     | 12/10/19 19:27 |
| 56)  | 51 | 1210_03.D | XXXXXXXXXX          |                     | 12/10/19 19:59 |
| 57)  | 52 | 1210_04.D | XXXXXXXXXX          |                     | 12/10/19 20:35 |
| 58)  | 53 | 1210_05.D | XXXXXXXXXX          |                     | 12/10/19 21:05 |
| 59)  | 54 | 1210_06.D | XXXXXXXXXX          |                     | 12/10/19 21:36 |
| 60)  | 55 | 1210_07.D | XXXXXXXXXX          |                     | 12/10/19 22:42 |
| 61)  | 56 | 1210_08.D | XXXXXXXXXX          |                     | 12/10/19 23:18 |
| 62)  | 57 | 1210_09.D | XXXXXXXXXX          |                     | 12/10/19 23:54 |
| 63)  | 58 | 1210_10.D | XXXXXXXXXX          |                     | 12/11/19 0:30  |
| 64)  | 59 | 1210_11.D | XXXXXXXXXX          |                     | 12/11/19 1:11  |
| 65)  | 60 | 1210_12.D | XXXXXXXXXX          |                     | 12/11/19 1:52  |
| 66)  | 61 | 1210_13.D | XXXXXXXXXX          |                     | 12/11/19 2:23  |
| 67)  | 62 | 1210_14.D | XXXXXXXXXX          |                     | 12/11/19 2:55  |
| 68)  | 63 | 1210_15.D | XXXXXXXXXX          |                     | 12/11/19 3:31  |

69) 64 1210\_16.D XXXXXXXXXXXX  
70) 65 1210\_17.D XXXXXXXXXXXX  
71) 66 1210\_18.D XXXXXXXXXXXX  
72) 67 1210\_19.D XXXXXXXXXXXX  
73) 68 1210\_20.D XXXXXXXXXXXX  
74) 69 1210\_21.D XXXXXXXXXXXX  
75) 70 1210\_22.D XXXXXXXXXXXX  
76) 71 1210\_23.D XXXXXXXXXXXX  
77) 72 1210\_24.D XXXXXXXXXXXX  
78) 73 1211\_01.D XXXXXXXXXXXX

12/11/19 4:03  
12/11/19 10:44  
12/11/19 11:29  
12/11/19 12:10  
12/11/19 12:46  
12/11/19 13:22  
12/11/19 13:57  
12/11/19 14:33  
12/11/19 15:05  
12/11/19 15:38



**Data Usability Summary Report (DUSR)  
NYSDEC ASP Category B**

**Client/Company:** Cody Ehlers Group, Trumbull, Connecticut (CEG)

**Site/Project Name:** Chez Valet Cleaners

**Laboratory:** Phoenix Environmental Laboratories, Inc. Manchester, Connecticut

**SDGs/Lab Project #:** GCE81145

**Date(s) of Collection:** December 4, 2019

**Number and type  
Samples & analyses:** 1 ambient air, 4 indoor air, and 3 subslab soil vapor samples for 66 project-specific VOCs by Method TO-15

**Senior Data Reviewers:** Dr. Nancy C. Rothman, New Environmental Horizons, Inc.  
Susan D. Chapnick, New Environmental Horizons, Inc.

**Date Completed:** January 8, 2020

This third-party Data Usability Summary Report (DUSR) is based on guidance developed by the New York State Department of Conservation (NYSDEC), June 1999, for technical review of analytical data and in compliance with DER-10 requirements (DER-10 / Technical Guidance for Site Investigation and Remediation; New York State Department of Environmental Conservation, DEC Program Policy, May 3, 2010). The objective of the DUSR is to determine whether or not the data as presented meet NYSDEC ASP 2005 or EPA method QC acceptance criteria and are usable for project decisions.

**I. Required DUSR Questions**

**1. *Is the data package complete as defined under the requirements for the most current NYSDEC ASP Category B or USEPA CLP deliverables?***

Yes.

**2. *Have all holding times been met?***

Yes.

**3. *Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?***

Yes. Some QC exceptions resulted in qualification of data as noted in the Data Validation Checklists (DV Checklists).

**4. *Have all of the data been generated using established and agreed upon analytical protocols?***

Yes. Analytical data were generated using established EPA Methods (see analytical references in Section II below). Deviations from EPA and NYSDEC ASP 2005 QC protocols are discussed in the DV Checklists of this DUSR.

**5. *Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?***

Yes. The raw data were checked to verify that detected results met retention time and mass spectral criteria, where applicable, for qualitative identification. A spot check was performed to verify quantitative accuracy for reporting of all results (see the DV Checklist).

**6. *Have the correct data qualifiers been used and are they consistent with the most current NYSDEC ASP?***

Yes. The laboratory used the correct data qualifiers in reporting of results. Data qualifiers were changed for several results during this review, as discussed in the DV Checklist and Table 2 of this DUSR.

**7. *Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheets from the data package been attached to the DUSR?***

Yes. QC exceedances are specified in the DV Checklists. QC summary sheets from the data package have not been attached; however, all QC exceedances that required data qualification are summarized in Table 2 of the DUSR and flagged in the validated electronic data deliverable (EDD).

## II. Sample Descriptions and Analytical Parameters

The sample IDs, date of sampling, identification of MS/MSD/LD, FD, EB, TB, if applicable and the analytical parameters reviewed in this DUSR are listed in Table 1. Any deviations noted for sample collection or receipt (e.g., temperature or preservation issues) are included in the DV Checklists.

Table 1. Sample Descriptions and Analytical Parameters

| Field Sample ID     | Lab ID  | Collection Date | Matrix         | Analytical Parameters | Sample Type                           |
|---------------------|---------|-----------------|----------------|-----------------------|---------------------------------------|
| DRY CLEANER VP-3    | CE81145 | 12/4/2019       | Soil Vapor     | VOCs                  | Field Sample                          |
| HAIR SALON IA-4     | CE81146 | 12/4/2019       | Indoor Air     | VOCs                  | Field Sample                          |
| DRY CLEANER IA-3    | CE81147 | 12/4/2019       | Indoor Air     | VOCs                  | Field Sample<br>[used for LD]         |
| TILE STORE IA-6     | CE81148 | 12/4/2019       | Indoor Air     | VOCs                  | Field Sample                          |
| HAIR SALON IA-4 DUP | CE81149 | 12/4/2019       | Indoor Air     | VOCs                  | Field Duplicate of<br>HAIR SALON IA-4 |
| VP-6 TILE STORE     | CE81150 | 12/4/2019       | Soil Vapor     | VOCs                  | Field Sample                          |
| HAIR SALON VP-4     | CE81151 | 12/4/2019       | Soil Vapor     | VOCs                  | Field Sample<br>[used for LD]         |
| OUTDOOR AIR         | CE81152 | 12/4/2019       | Ambient<br>Air | VOCs                  | Field Sample                          |

### Analytical method references:

VOCs: 66 project-specific VOCs by EPA Method TO-15 using full scan detection.

### III. Data Deficiencies, Analytical Protocol Deviations, and Quality Control Problems

The following QC elements, as applicable to the analytical methods, were reviewed during this DUSR:

- Data package completeness and reporting protocols
- Sample receipt, holding times, and preservation criteria
- Calibration criteria (instrument tuning, initial and continuing calibration verifications)
- Method, field, and instrument blank results
- Laboratory Control Sample (LCS) Recoveries
- Surrogate and Internal Standard (IS) Recoveries
- Sample/Laboratory Duplicate (LD) or sample/Field Duplicate (FD) Relative Percent Differences (RPDs)
- Sample result reporting (including reporting limits and units)
- Other method-specific QC if applicable and reported
- Deficiencies or protocol deviations as noted in the Laboratory Narrative

During this review of VOCs, several results were estimated (J+, J, or UJ) due to QC issues. Table 2 summarizes the actions taken during this review. NEH generated a validated electronic data file (EDD) based on the Equis EDD received from CEG for this SDG. All results were considered acceptable compared to NYSDEC ASP 2005 and method criteria and usable for project decisions, with the understanding of the potential uncertainty (bias) in the qualified results.

Sensitivity was considered acceptable in that all non-detects for trichloroethene, cis-1,2-dichloroethene, 1,1-dichloroethane, carbon tetrachloride, tetrachloroethene, 1,1,1-trichloroethane, methylene chloride, and vinyl chloride were at or below the NYSDOH air guidelines (May 2017). There were no NYSDOH air guideline levels for the other VOCs reported.

As required by the DUSR, the DV Checklist attached to this DUSR report documents the QC reviewed and the issues that required action or affected the data certainty in terms of the project data quality objectives (DQO) of accuracy, precision, representativeness, comparability, and sensitivity. The DQO of completeness can be evaluated by the project manager after all data are generated.

Table 2. Summary of Data Validation Actions

| Field Sample ID                                                                                                                                        | Analyte                                   | Qualifier | Bias | Validation Comments                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------|------|---------------------------------------------------------------------------------------------------------|
| DRY CLEANER IA-3<br>HAIR SALON IA-4 DUP<br>HAIR SALON IA-4<br>TILE STORE IA-6                                                                          | Methyl Ethyl Ketone                       | J+        | H    | High LCS recovery                                                                                       |
| DRY CLEANER VP-3<br>HAIR SALON VP-4<br>VP-6 TILE STORE                                                                                                 | o-Xylene                                  | J+        | H    | High LCS recovery                                                                                       |
| DRY CLEANER VP-3                                                                                                                                       | Ethanol                                   | J+        | H    | High Calibration verification                                                                           |
| HAIR SALON VP-4<br>VP-6 TILE STORE                                                                                                                     | Ethanol                                   | J         | I    | High Calibration verification + Possible lab contaminant + Result uncertain above the Calibration Range |
| DRY CLEANER IA-3<br>HAIR SALON IA-4 DUP<br>HAIR SALON IA-4<br>TILE STORE IA-6                                                                          | Ethanol                                   | J         | I    | Possible lab contaminant + Result uncertain above the Calibration Range                                 |
| DRY CLEANER IA-3<br>HAIR SALON IA-4 DUP<br>HAIR SALON IA-4<br>OUTDOOR AIR<br>TILE STORE IA-6                                                           | Benzyl chloride<br>1,2,4-Trichlorobenzene | UJ        | L    | Low Calibration verification                                                                            |
| DRY CLEANER IA-3<br>DRY CLEANER VP-3<br>HAIR SALON IA-4 DUP<br>HAIR SALON IA-4<br>HAIR SALON VP-4<br>OUTDOOR AIR<br>TILE STORE IA-6<br>VP-6 TILE STORE | Carbon Disulfide                          | UJ        | I    | Result uncertain below the Calibration Range                                                            |
| DRY CLEANER IA-3<br>HAIR SALON IA-4 DUP<br>HAIR SALON IA-4<br>HAIR SALON VP-4<br>TILE STORE IA-6<br>VP-6 TILE STORE                                    | Hexane<br>Isopropylalcohol<br>Acetone     | J+        | H    | Possible lab contaminant                                                                                |
| DRY CLEANER VP-3                                                                                                                                       | Isopropylalcohol<br>Acetone               | J+        | H    | Possible lab contaminant                                                                                |

Table 2. Summary of Data Validation Actions

| Field Sample ID | Analyte                                          | Qualifier | Bias | Validation Comments      |
|-----------------|--------------------------------------------------|-----------|------|--------------------------|
| OUTDOOR AIR     | Hexane<br>Ethanol<br>Isopropylalcohol<br>Acetone | J+        | H    | Possible lab contaminant |

*Qualifiers: U = analyte is non-detect at the sample-specific Reporting Limit (usable); UJ = non-detect is usable as an estimated value; J = result is usable as an estimated value with indeterminate bias; J+ = result is usable as an estimated value with possible high bias; J- = result is usable as an estimated value with possible low bias; R = result is rejected due to severe QC exceedance and unusable for project objectives.*

*Bias: L = Low; H = High; I = Indeterminate*

*Acronyms used in Table 2:*

*LCS = Laboratory Control Sample*



Date Sampled: 12/4/19

No. Samples

4 IA + 1 AA + 3 SV

Method of Analysis: TO-15 SIM

| Data Element Acceptable | Canister Receipt | HT | GC/MS Tunes + Calibrations        | Internal Stds + Surrogates | LCS                     | Lab Dup (LCS and LD) | Field Duplicates | RL & Quant.                     |
|-------------------------|------------------|----|-----------------------------------|----------------------------|-------------------------|----------------------|------------------|---------------------------------|
| Yes                     | √                | √  |                                   | √                          |                         | √                    | √                |                                 |
| No                      |                  |    | Estimate (J+, J or UJ) 21 results |                            | Estimate (J+) 7 results |                      |                  | Accept 6 "E" values as "J" data |

**Other Issues :**31 "S" lab qualified data accepted as estimated (J+ or J) results**Data Package Completeness:**

1. Were all required forms (results, summary QC, COC), as required to validate the data in accordance with the QAPP and EPA DV guidance present in the data package? Yes. A full data deliverable (NYSDEC Category B), including results, summary QC, and all raw data, was provided for review.
2. Were all result forms for all samples listed on the chain-of-custody present in data package? Yes.

**Sample receipt:** The 8 6-L canisters were received intact and in good condition on 12/5/19. There were no COC issues noted.**Certification:** Canisters were Batch Certified pre-cleaned on 11/11/19. Canisters sent to the field for this project, along with several other canisters, were cleaned in two batches (#1671 and #1672) and representative canisters from the batches were analyzed for all TO-15 target compounds and were found to have no detects > RL. Batch certification acceptable - no action required.**Sample Integrity:** The canisters were shipped out to the field each at 30 "Hg vacuum. Field receipt vacuums were 26 - 30 "Hg, and all samples were collected for 8 hours each. All field final and lab receipt vacuums were within  $\pm 5$  "Hg of each other; therefore, sample integrity acceptable, no action required.Date: 1/7/20Data Reviewer: Nancy C. Rothman, Ph.D.

Associated Blanks: Method Blank: CE81147 BLANK & CE81151 BLANKEB = none

| Blank ID      | Contaminant / Level ( $\mu\text{g}/\text{m}^3$ ) | Action Level<br>DF= | Sample and reported result ( $\mu\text{g}/\text{m}^3$ ) | Corrected<br>Database Result |
|---------------|--------------------------------------------------|---------------------|---------------------------------------------------------|------------------------------|
| CE81147 BLANK | None                                             |                     | No Blank Action Required                                |                              |
| CE81151 BLANK | None                                             |                     | No Blank Action Required                                |                              |
|               |                                                  |                     |                                                         |                              |

**Holding Time (HT):** Samples were analyzed by 12/9/19; therefore HT was met. No Action required.

**BFB Tunes:** Instrument CHEM24 12/3/19 (ICAL) & 12/6/19 & 12/7/19 (ICAL) & 12/8/19. Samples were all analyzed outside 12-hr of tune (NYSDEC criteria) but within 24-hr of tune (TO-15 criteria). Tunes were acquired properly and met criteria; therefore, since the samples were analyzed within Method TO-15 tune time criteria, No Action Required.

**ICAL :** Instrument CHEM24 performed on 12/3/19 & 12/7/19. Full Scan 6- or 8-level calibration from 0.1, 0.2, 0.5, or 1 to 40 ppbV for all 66 Target compounds plus surrogate and SIM analysis 8- or 9-level calibration for 35 compounds from 0.02 or 0.035 to 5 ppbV. All  $\%RSD \leq 30\%$  or  $r^2 > 0.99$  for regression analyses (mostly performed for SIM) for all 66 Target Compounds. RLs are not based on the lowest concentration standard for ICALs, rather, lab reported all RLs for DF=1 analyses ranging from 0.2 to 0.86 ppbV. All compounds except acetone (1 ppbV lowest level standard), ethanol (0.5 ppbV lowest level standard), and carbon disulfide (0.5 lowest level standard) were analyzed with a lowest ICAL of 0.2 ppbV in both ICALs, which supported the RLs reported. Ethanol was reported with an RL equivalent to the 0.5 ppbV standard so this RL was accurate as reported. However, for acetone (RL reported  $\sim 0.42$  ppbV) and carbon disulfide (RL reported  $\sim 0.32$  ppbV), the ICALs were not valid at the RL. All samples reported a detect for acetone that was within the calibration range; therefore, even though the RL was not accurate for acetone, the detected results are accurate. For carbon disulfide, all data were non-detect so all non-detects are considered uncertain with indeterminate bias due to uncertainty in the quantitation below the instrument calibration range. Note, the MDL and PQL given on the Form 1 hardcopy data and the "method\_detection\_limit" "reporting\_detection\_limit" in the EDD are equivalent.

**\*ACTION: Carbon disulfide estimated (UJ) in all samples with indeterminate bias due to uncertainty in quantitation below the Calibration range**

**CCVs:** 12/6/19 & 12/8/19. % Recovery 70-130% for all Target compounds except: benzyl chloride %D = +32% and 1,2,4-trichlorobenzene %D = +39% in 12/6/19 CCV; and ethanol %D = -35.6% in 12/8/19 CCV. A positive %D indicates sensitivity to detection of compound decreased on day of CCV as compared to sensitivity during the ICAL and negative %D indicates and increase in sensitivity to detection (convention used by the lab is opposite SW-846 %D convention). Action taken based on samples analyzed following these CCVs.

**\*ACTION: Benzyl chloride and 1,2,4-trichlorobenzene estimated (UJ) in samples HAIR SALON IA-4, DRY CLEANER IA-3, TILE STORE IA-6, HAIR SALON IA-4 DUP, and OUTDOOR AIR with possible low bias, unless other issues affect the data, due to low calibration verification and Ethanol estimated (J+) in samples DRY CLEANER VP-3, HAIR SALON VP-4, and VP-6 TILE STORE with possible high bias, unless other issues affect the data, due to high calibration verification**

Date: 1/7/20Data Reviewer: Nancy C. Rothman, Ph.D.

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**Surrogates & Internal Standards :** Surrogate Bromofluorobenzene (BFB) and 3 IS' (Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5). Surrogate recovery and all IS areas and RTs were within criteria in all analyses except CE81147 BLANK reported 2 of the 3 IS with areas above criteria. Since the Method Blank are not validated, no action for IS anomaly in the Method Blank - No Action required.

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**LCS/LCSD :** CE81147 & CE81151 LCS (no LCSD) - %Recovery acceptable for all 66 Targets in LCS (all reported for full scan analysis) except methyl ethyl ketone in CE81147 and o-Xylene in CE81151 LCS were recovered above criteria. High MEK affects detected results in IA & AA samples and high o-Xylene affects detected results in SV samples. Non-detects are not affected.

**\*ACTION: Methyl ethyl ketone in sample HAIR SALON IA-4, DRY CLEANER IA-3, TILE STORE IA-6, and HAIR SALON IA-4 DUP and o-Xylene in samples DRY CLEANER VP-3, HAIR SALON VP-4, and VP-6 TILE STORE estimated (J+) with possible high bias, unless other issues affect the data, due to high LCS recovery**

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**Compound Reporting:** the lab reported results for 66 Target VOCs, which represents their standard TO-15 list. As this list includes the 3 compounds for which NYSDOH has Air Guideline Levels, data were accepted as reported - No Action required.

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**Qualifier Action:** There were no "J" results reported (values < RL). The hardcopy Form 1 data reported an "S" qualifier on detected results for ethanol, acetone, isopropylalcohol, and hexane. The "S" qualifiers were eliminated from the EDD and Summary Data Report; however, during this validation, the "S" was added to the lab qualifier field in the EDD to be equivalent to how the laboratory reported the data on their Form 1s. These "S" data were accepted as estimated (J+) with a possible high bias, unless other issues affect the data, since these are possible lab contaminants and the lab is unsure of whether the detects were actually associated with the site samples. There were also 6 "E" qualifiers added to the results for ethanol since this compound was detected above the instrument calibration range. The "E" data were accepted as estimated (J) results with indeterminate bias due to the uncertainty in quantitation at a level exceeding the calibration range. There were no other qualifiers (except "U") reported on the data.

**\*ACTION: 31 "S" and 6 "E" lab qualified results accepted as estimated (J or J+) results**

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**Sensitivity:** All reporting limits for 8 compounds listed in Matrix A, B, and C for the Soil Vapor and Indoor Air samples given in May 2017 NYSDOH Air Guidelines (shown in the table on the second to last page of this checklist) were achieved. Sensitivity is acceptable for all results.

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**Calculation check:** DRY CLEANER VP-3; Tetrachloroethene

200 mL analyzed so effective DF = 1; MWt = 165.85

Sample Response = 2124419; IS Response (1,4-Difluorobenzene) = 942500@ 10; RRF ICAL = 0.736

$$\text{Conc.} = \frac{2124419 \times 10 \times 1}{942500 \times 0.736} = 30.625 \text{ ppbV}$$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv} \times \text{Mwt} \times \text{DF}) / 24.45 = (30.625 \times 165.85 \times 1) / 24.45 = 207 \mu\text{g}/\text{m}^3$$

√

Date: 1/7/20

Data Reviewer: Nancy C. Rothman, Ph.D.

The sample chromatograms, mass spectra of detects and quantitation reports were scanned and data appeared to have been reported correctly. The laboratory did not report Tentatively Identified Compounds (TICs) as these were not requested; however, some samples of interest did appear to contained extra peaks.

**Narrative:** The narrative did not mention any issues that were not already addressed in this review.

**Lab Duplicate (LD):** performed on samples DRY CLEANER IA-3 and HAIR SALON VP-4. A comparison of the detected results for these Sample/LD pairs shown below:

| Lab Duplicate Evaluation_ Sample IDs: |            | Sample = DRY CLEANER IA-3 |        |           | LD = DRY CLEANER IA-3 DUP |        |        |      |
|---------------------------------------|------------|---------------------------|--------|-----------|---------------------------|--------|--------|------|
| Analyte Name                          | DF = 1     | Sample Result             | Result | LD Result | LD                        | RPD    | Action |      |
|                                       | RL (µg/m³) | µg/m³                     | Q      | Level     | µg/m³                     |        |        | Q    |
| Toluene                               | 1          | 4.14                      | < 5xRL | 4.33      | < 5xRL                    | 4.5%   | None   |      |
| Hexane                                | 1          | 2.27                      | < 5xRL | 2.02      | < 5xRL                    | 11.7%  | None   |      |
| Tetrachloroethene                     | 0.25       | 6.39                      | > 5xRL | 6.71      | > 5xRL                    | 4.9%   | None   |      |
| Ethyl acetate                         | 1          | 4.32                      | < 5xRL | 4.18      | < 5xRL                    | 3.3%   | None   |      |
| Heptane                               | 1          | 1.18                      | < 5xRL | 1.12      | < 5xRL                    | 5.2%   | None   |      |
| m,p-Xylene                            | 1          | 1.28                      | < 5xRL | 1.33      | < 5xRL                    | 3.8%   | None   |      |
| Carbon Tetrachloride                  | 0.2        | 0.5                       | < 5xRL | 0.48      | < 5xRL                    | 4.1%   | None   |      |
| 4-Ethyltoluene                        | 1          | 1.19                      | < 5xRL | 1.2       | < 5xRL                    | 0.8%   | None   |      |
| Ethanol                               | 1          | 100                       | J      | > 5xRL    | 90.6                      | > 5xRL | 9.9%   | None |
| Isopropylalcohol                      | 1          | 11.3                      | > 5xRL | 10.8      | > 5xRL                    | 4.5%   | None   |      |
| Acetone                               | 1          | 13.5                      | > 5xRL | 12.9      | > 5xRL                    | 4.5%   | None   |      |
| Benzene                               | 1          | 1.35                      | < 5xRL | 1.4       | < 5xRL                    | 3.6%   | None   |      |
| Chloromethane                         | 1          | 1.69                      | < 5xRL | 1.6       | < 5xRL                    | 5.5%   | None   |      |
| Methyl Ethyl Ketone                   | 1          | 1.21                      | J+     | < 5xRL    | 1.1                       | < 5xRL | 9.5%   | None |
| Trichloroethene                       | 0.2        | 31                        | > 5xRL | 32.3      | > 5xRL                    | 4.1%   | None   |      |
| 1,2,4-Trimethylbenzene                | 1          | 1.26                      | < 5xRL | 1.24      | < 5xRL                    | 1.6%   | None   |      |

\* Action only taken for RPD > 20% if one or both results are > 5 x RL or if one result ND and other results > 5 x RL; Q = Validator Qualifier; NC= Not calculated

LD precision was acceptable for all Target VOCs in the LD pair of DRY CLEANER IA-3 and DRY CLEANER IA-3 DUP - no action required

Lab Duplicate Evaluation\_ Sample IDs:

Sample = HAIR SALON VP-4

LD = HAIR SALON VP-4 DUP

| Analyte Name            | DF = 1<br>RL ( $\mu\text{g}/\text{m}^3$ ) | Sample Result<br>$\mu\text{g}/\text{m}^3$ | Q  | Result<br>Level | LD Result<br>$\mu\text{g}/\text{m}^3$ | Q | LD<br>Level | RPD   | Action |
|-------------------------|-------------------------------------------|-------------------------------------------|----|-----------------|---------------------------------------|---|-------------|-------|--------|
| Ethylbenzene            | 1                                         | 1.97                                      |    | < 5xRL          | 1.83                                  |   | < 5xRL      | 7.4%  | None   |
| Styrene                 | 1                                         | 2.26                                      |    | < 5xRL          | 2.06                                  |   | < 5xRL      | 9.3%  | None   |
| Toluene                 | 1                                         | 15.4                                      |    | > 5xRL          | 15.2                                  |   | > 5xRL      | 1.3%  | None   |
| Tetrahydrofuran         | 1                                         | 5.69                                      |    | > 5xRL          | 5.66                                  |   | > 5xRL      | 0.5%  | None   |
| Hexane                  | 1                                         | 4.19                                      |    | < 5xRL          | 3.98                                  |   | < 5xRL      | 5.1%  | None   |
| Tetrachloroethene       | 0.25                                      | 12.6                                      |    | > 5xRL          | 10.5                                  |   | > 5xRL      | 18.2% | None   |
| Ethyl acetate           | 1                                         | 1                                         | U  | RL              | 1.13                                  |   | < 5xRL      | NC    | None   |
| m,p-Xylene              | 1                                         | 7.12                                      |    | > 5xRL          | 6.68                                  |   | > 5xRL      | 6.4%  | None   |
| Carbon Tetrachloride    | 0.2                                       | 0.46                                      |    | < 5xRL          | 0.46                                  |   | < 5xRL      | 0.0%  | None   |
| 4-Ethyltoluene          | 1                                         | 1.05                                      |    | < 5xRL          | 1                                     | U | RL          | NC    | None   |
| Ethanol                 | 1                                         | 151                                       | J  | > 5xRL          | 147                                   |   | > 5xRL      | 2.7%  | None   |
| Isopropylalcohol        | 1                                         | 4.52                                      |    | < 5xRL          | 4.35                                  |   | < 5xRL      | 3.8%  | None   |
| Acetone                 | 1                                         | 31.8                                      |    | > 5xRL          | 33.9                                  |   | > 5xRL      | 6.4%  | None   |
| Chloromethane           | 1                                         | 1.09                                      |    | < 5xRL          | 1.06                                  |   | < 5xRL      | 2.8%  | None   |
| Methylene Chloride      | 3                                         | 7.01                                      |    | < 5xRL          | 6.87                                  |   | < 5xRL      | 2.0%  | None   |
| Trichlorofluoromethane  | 1                                         | 1.53                                      |    | < 5xRL          | 1.51                                  |   | < 5xRL      | 1.3%  | None   |
| Dichlorodifluoromethane | 1                                         | 2.8                                       |    | < 5xRL          | 3.06                                  |   | < 5xRL      | 8.9%  | None   |
| Methyl Ethyl Ketone     | 1                                         | 4.24                                      |    | < 5xRL          | 4.27                                  |   | < 5xRL      | 0.7%  | None   |
| Trichloroethene         | 0.2                                       | 0.65                                      |    | < 5xRL          | 0.61                                  |   | < 5xRL      | 6.3%  | None   |
| o-Xylene                | 1                                         | 2.57                                      | J+ | > 5xRL          | 2.43                                  |   | > 5xRL      | 5.6%  | None   |
| Isopropylbenzene        | 1                                         | 5.16                                      |    | > 5xRL          | 4.59                                  |   | > 5xRL      | 11.7% | None   |

\* Action only taken for RPD > 20% if one or both results are > 5 x RL or if one result ND and other results > 5 x RL; Q = Validator Qualifier; NC= Not calculated

LD precision was acceptable for all Target VOCs in the LD pair of HAIR SALON VP-4 and HAIR SALON VP-4 DUP - no action required

**Field Duplicate (FD):** performed on samples HAIR SALON IA-4 / HAIR SALON IA-4 DUP. A comparison of the detected results for this FD pair shown below:

Field Duplicate Evaluation\_ Sample IDs:

Sample = HAIR SALON IA-4

FD = HAIR SALON IA-4 DUP

| Analyte Name           | DF = 1<br>RL ( $\mu\text{g}/\text{m}^3$ ) | Sample Result<br>$\mu\text{g}/\text{m}^3$ | Q  | Result<br>Level | LD Result<br>$\mu\text{g}/\text{m}^3$ | Q  | LD<br>Level | RPD   | Action |
|------------------------|-------------------------------------------|-------------------------------------------|----|-----------------|---------------------------------------|----|-------------|-------|--------|
| Ethylbenzene           | 1                                         | 1.05                                      |    | < 5xRL          | 1.09                                  |    | < 5xRL      | 3.7%  | None   |
| Toluene                | 1                                         | 10.7                                      |    | > 5xRL          | 10.7                                  |    | > 5xRL      | 0.0%  | None   |
| Hexane                 | 1                                         | 4.12                                      |    | < 5xRL          | 4.16                                  |    | < 5xRL      | 1.0%  | None   |
| Cyclohexane            | 1                                         | 1.58                                      |    | < 5xRL          | 1.5                                   |    | < 5xRL      | 5.2%  | None   |
| Tetrachloroethene      | 0.25                                      | 1.75                                      |    | < 5xRL          | 1.71                                  |    | < 5xRL      | 2.3%  | None   |
| Ethyl acetate          | 1                                         | 1                                         | U  | RL              | 1.44                                  |    | < 5xRL      | NC    | None   |
| Heptane                | 1                                         | 2.36                                      |    | < 5xRL          | 2.26                                  |    | < 5xRL      | 4.3%  | None   |
| m,p-Xylene             | 1                                         | 4.06                                      |    | < 5xRL          | 4.1                                   |    | < 5xRL      | 1.0%  | None   |
| Carbon Tetrachloride   | 0.2                                       | 0.55                                      |    | < 5xRL          | 0.52                                  |    | < 5xRL      | 5.6%  | None   |
| 4-Ethyltoluene         | 1                                         | 1.16                                      |    | < 5xRL          | 1.14                                  |    | < 5xRL      | 1.7%  | None   |
| Ethanol                | 1                                         | 1400                                      | J  | > 5xRL          | 1190                                  | J  | > 5xRL      | 16.2% | None   |
| Isopropylalcohol       | 1                                         | 27.5                                      |    | > 5xRL          | 26.8                                  |    | > 5xRL      | 2.6%  | None   |
| Acetone                | 1                                         | 37                                        |    | > 5xRL          | 33.2                                  |    | > 5xRL      | 10.8% | None   |
| Benzene                | 1                                         | 2.74                                      |    | < 5xRL          | 2.83                                  |    | < 5xRL      | 3.2%  | None   |
| Methyl Ethyl Ketone    | 1                                         | 1.18                                      | J+ | < 5xRL          | 1.05                                  | J+ | < 5xRL      | 11.7% | None   |
| o-Xylene               | 1                                         | 1.11                                      |    | > 5xRL          | 1.11                                  |    | > 5xRL      | 0.0%  | None   |
| 1,2,4-Trimethylbenzene | 1                                         | 1.24                                      |    | < 5xRL          | 1.19                                  |    | < 5xRL      | 4.1%  | None   |

\* Action only taken for RPD > 20% if one or both results are > 5 x RL or if one result ND and other results > 5 x RL; Q = Validator Qualifier; NC= Not calculated

FD precision was acceptable for all Target VOCs in the FD pair of HAIR SALON IA-4 and HAIR SALON IA-4 DUP - no action required

***Sensitivity Requirements and Actions (updated May 2017)***

| Target Compound           | 2017 NYSDOH Categorization | Soil Vapor Action Limits ( $\mu\text{g}/\text{m}^3$ ) | Indoor Air Action Limits ( $\mu\text{g}/\text{m}^3$ ) |
|---------------------------|----------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Trichloroethene (TCE)     | Matrix A                   | < 60                                                  | < 1                                                   |
| Dichloroethene (cis-1,2-) | Matrix A                   | < 60                                                  | < 1                                                   |
| Dichloroethene (1,1-)     | Matrix A                   | < 60                                                  | < 1                                                   |
| Carbon Tetrachloride      | Matrix A                   | < 60                                                  | < 1                                                   |
| Tetrachloroethene (PCE)   | Matrix B                   | < 1000                                                | < 10                                                  |
| 1,1,1-Trichloroethane     | Matrix B                   | < 1000                                                | < 10                                                  |
| Methylene Chloride        | Matrix B                   | < 1000                                                | < 10                                                  |
| Vinyl Chloride            | Matrix C                   | < 60                                                  | < 0.2                                                 |

|                                    |                                                                                                                                                                                                                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Canister Integrity:</b>         | If certification forms indicate issues, J/U or UJ results in samples; if Flow controller RPD > 20% for pre- and post-flow calibrations, J detect/UJ non-detects                                                                                                                             |
| <b>Canister Vacuum (Vac):</b>      | Initial Field Vac < 25" Hg, J/UJ all results; Lab Receipt Vac > 15" Hg, J/UJ results; Lab Receipt Vac > $\pm$ 5" Hg of Final Field Vac, J/UJ results                                                                                                                                        |
| <b>Hold Time (HT):</b>             | HT > 30 days, J detects/ UJ non-detects                                                                                                                                                                                                                                                     |
| <b>Blank Actions:</b>              | Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF)<br>Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported<br>Equipment Blank (EB): Result<Blank Action, EB result at level reported |
| <b>BFB Tune:</b>                   | SW-846 method 8260B or TO-15 tune criteria not met, professional judgment on R of all data; samples analyzed > 12-hours after tune; professional judgment on J/UJ or R of results                                                                                                           |
| <b>LCS and CCV:</b>                | Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects                                                                                                                                        |
| <b>Initial Calibration (ICAL):</b> | %RSD > 30%, J/UJ associated results                                                                                                                                                                                                                                                         |
| <b>Internal Standard (IS):</b>     | RT > $\pm$ 0.33 min of IS RT in daily CCV, J/UJ associated results;                                                                                                                                                                                                                         |
|                                    | Area < 25% Area in CCV, J detects, R non-detects (or professional judgment); 25%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects                                                                                            |
| <b>Surrogates:</b>                 | %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects                                                                                                                                                           |

**Actions continued**

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Laboratory Duplicates:</b>    | LCS/LCSD RPD or Sample/LD RPD > 20% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Field Duplicates:</b>         | RPD > 20% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RLs + Quant:</b>              | Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data. Note if RL > Air Guideline values derived by NYSDOH (see table on previous page)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>DV Qualifier Definitions:</b> | U = analyte is non-detect at the sample-specific Reporting Limit (usable); UJ = non-detect is usable as an estimated value; J = result is usable as an estimated value with indeterminate bias; J+ = result is usable as an estimated value with possible high bias; J- = result is usable as an estimated value with possible low bias; R = result is rejected due to severe QC exceedance and unusable for project objectives. Bias: L = Low; H = High; I = Indeterminate.                                                                                                                                                                       |
| <b>References:</b>               | NYSDOH, <i>Guidance for Evaluating Soil Vapor Intrusion in the State of New York</i> , October 2006 with updates through May 2017; NYSDEC Analytical Services Protocol, June 2005 with NYSDEC Modifications to the EPA Region 9 TO-15 QA/QC Criteria, February 2008; USEPA Region II SOP HW-31, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15, Rev. 6, June 2014; and Method TO-15, Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS), Publication EPA/625/R-96/010b, January 1999. |



# CODY EHLERS GROUP

EHS CONSULTING AND SERVICES

935 WHITE PLAINS ROAD  
TRUMBULL, CONNECTICUT 06611  
PHONE: (203) 259-7722

February 5, 2020

Mr. Bert Brodsky  
Owners Representative  
BSI, LLC  
26 Harbor Park Drive  
Port Washington, New York 11050

RE: Ground Water Sampling Event  
Chez Valet Dry Cleaners Site  
3 Manorhaven Blvd.  
Port Washington, New York 11050  
NYSDEC Site # 1-30-169

Dear Mr. Brodsky:

Cody Ehlers Group (CEG) is pleased to provide this letter report summarizing the recently completed Limited Ground Water Sampling event at the former Chez Valet facility in Port Washington, New York. The purpose of the project is to support the eventual closure of site remedial actions in accordance with the requirements of the Record of Decision (ROD) prepared for the Site by the New York State Department of Environmental Conservation (NYSDEC).

The scope of work has been developed based upon communications between Andy Ledins, PE of Record, CEG and Brian Jankauskas, the NYSDEC case manager for this Site. Mr. Jankauskas made the request for the 2019 sampling in his October 9, 2019 letter to BSI, LLC. The scope of the sampling event was discussed further in a subsequent call with Mr. Jankauskas.

Mr. Jankauskas has asked that two of the downgradient monitoring wells be sampled for volatile organic compounds (VOCs). He asked that the selected wells be located in a down-gradient location to the former Chez Valet Cleaners facility. Two wells located on the adjacent property to the west were targeted as most appropriate for this sampling task. That property is an equipment storage yard owned and operated by the Town of Manorhaven. The attached figure shows the approximate locations of these two wells (identified as MW-1 and MW-2). Three additional monitoring wells were part of the original five-well monitoring network. However, only the two wells in the Manorhaven storage yard were considered to be suitable for monitoring ground water down-gradient of the former Chez Valet building. MW-3 is situated north of the former dry cleaner and is considered to be a background well. Sampling of this well was not requested by the NYSDEC. Wells MW-4 and MW-5 are situated in the sidewalk across Manorhaven Blvd. MW-5 is immediately west of a retail gas station and is side-to-downgradient of the Chez Valet building where the dry-cleaning operations occur. It was believed to be more immediately downgradient of the gas station. Lastly, MW-4 is approximately

60 feet west of MW-5. While this well is likely to be downgradient of the dry cleaning section of the building, during the inspection/development task, CEG was unable to locate the well in a landscaped area along Manorhaven Boulevard. As a result, only well MW-2 was sampled. Note that by 2012, MW-4 had exhibited a 95% drop in PCE between 2009 and 2012 to a level (3 ug/L) below the applicable standard (5 ug/L).

### *Scope of Work*

#### **Task 1: Monitoring Well Inspection and Development**

Prior to the well redevelopment task, CEG contacted the Town of Manorhaven to obtain permission to conduct this task (and the subsequent sampling task). The Town granted CEG verbal authorization to conduct the indicated tasks and the re-development task was scheduled for December 4, 2019.

CEG arrived at the storage yard on the morning of December 4, 2019. Monitoring well MW-2 was found to be in good condition and suitable for redevelopment and sampling. The well is a 1-inch diameter PVC well with screen to a depth of approximately 15 feet deep. The well is finished with a small diameter steel curb box. Well MW-1 in the northeastern corner of the yard was not found. There were several pieces of equipment in this area and CEG could not locate the well.

Well development was performed to remove sediment that has accumulated within the well and sand pack since the last sampling event in 2012. Development activities consisted of surging and pumping the monitoring well using a Geopump and tubing to remove the disturbed sediment. The tubing and pump was raised and lowered throughout the well column to loosen any accumulated sediment. Then, the Geopump was used to remove the solids suspended in the well water. This procedure was repeated several times until the water had cleared sufficiently to reach an acceptable level suitable for sampling. Approximately 10 gallons of groundwater was purged from the well during this procedure. The purged groundwater was placed into 5-gallon plastic buckets and lids were applied following the completion of development activities.

#### **Task 2: Monitoring Well Sampling**

On December 12, 2019, CEG collected a ground water sample from MW-2 using the NYSDEC-approved low flow sampling technique. Water was purged from the well using a Geopump. The purged groundwater flowed through a Horiba U-52 multimeter. Field measurements consisting of temperature, pH, ORP, specific conductivity, turbidity and dissolved oxygen were recorded.

| Temperature | pH   | ORP    | Spec Cond. | Turbidity | DO        |
|-------------|------|--------|------------|-----------|-----------|
| 10.17° C    | 6.60 | 49 m/V | .404 mS/cm | 0.0 NTU   | 5.01 mg/L |

Following stabilization of the field parameters, CEG collected the groundwater sample. The groundwater sample was packed in ice in a cooler and transported to Phoenix Environmental Laboratories, Inc., Manchester, CT, a NYSDEC-approved laboratory (#11301). The sample was analyzed for halogenated VOCs using USEPA method 8260c. All purged groundwater was placed into 5-gallon pails for future disposal.

### **Task 3: Summary of Findings**

Of the halogenated VOCs analyzed for, only tetrachloroethene, or PCE, was detected above its laboratory reporting level. PCE was present at 1.3 ug/L. No trichloroethene, or TCE, was detected (ND at 1.0 ug/L). The Phoenix data package is attached to this report.

The results were compared to the “*Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*”, Division of Water Technical and Operational Guidance Series (1.1.1), June 1998. Both PCE and TCE are considered to be Principal Organic Contaminant (POCs) with a groundwater standard of 5 ug/L. The PCE detection is approximately 1/4 of the POC standard.

The overall trend of PCE and TCE in groundwater as measured by sampling results from MW-2 since March 2009 show a decreasing trend. PCE detections have dropped from 25 ug/L in March 2009 prior to the installation and operation of the sub-slab soil gas remedy to 20 ug/L in April 2012, and to the current detection of 1.3 ug/L, a drop of approximately 95% over the past 11 years. CEG has no previous sampling results for TCE in MW-2, but the December 2019 sampling result is now at non-detect.

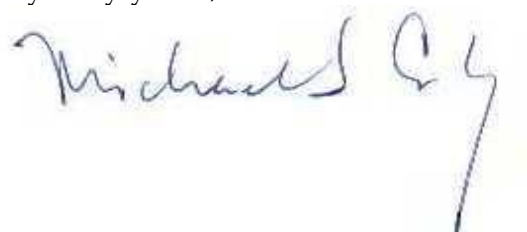
The results and the trend showing an historical groundwater plume to be shrinking suggest that the AS/VES system has been successful at removing PCE and TCE from the impacted ground water and shallow soil beneath and immediately down gradient of the former Chez Valet building. The results of the December 2019 Indoor Air and Sub-Slab Soil Gas sampling also show the reduction of these two halogenated VOCs in the sub-slab soil gas. Based upon both the groundwater and indoor air and sub-slab soil gas sampling in December 2019, CEG concludes that the SVE/SSD system has achieved the primary remedial action objectives (RAOs) for environmental protection summarized in June 2017 Final Engineering Report for the former Chez Valet Cleaners Site. The RAOs for soil and groundwater are:

- Restore ground water aquifer, to pre-disposal/prerelease conditions, to the extent practicable.
- Remove the source of ground water contamination.
- Prevent migration of contaminants that would result in groundwater contamination.

CEG recommends that the SVE/SSD be permanently dismantled and that no further action is necessary.

Please feel free to contact Mr. Ledins or CEG with any questions or comments.

Very truly yours,

A handwritten signature in blue ink that reads "Michael Cody". The signature is written in a cursive style with a long, sweeping tail on the last letter.

Michael Cody  
Project Director

Attachments

CC: A. Ledins

# ATTACHMENTS

# Figures

Figure 1 – Project Site Map

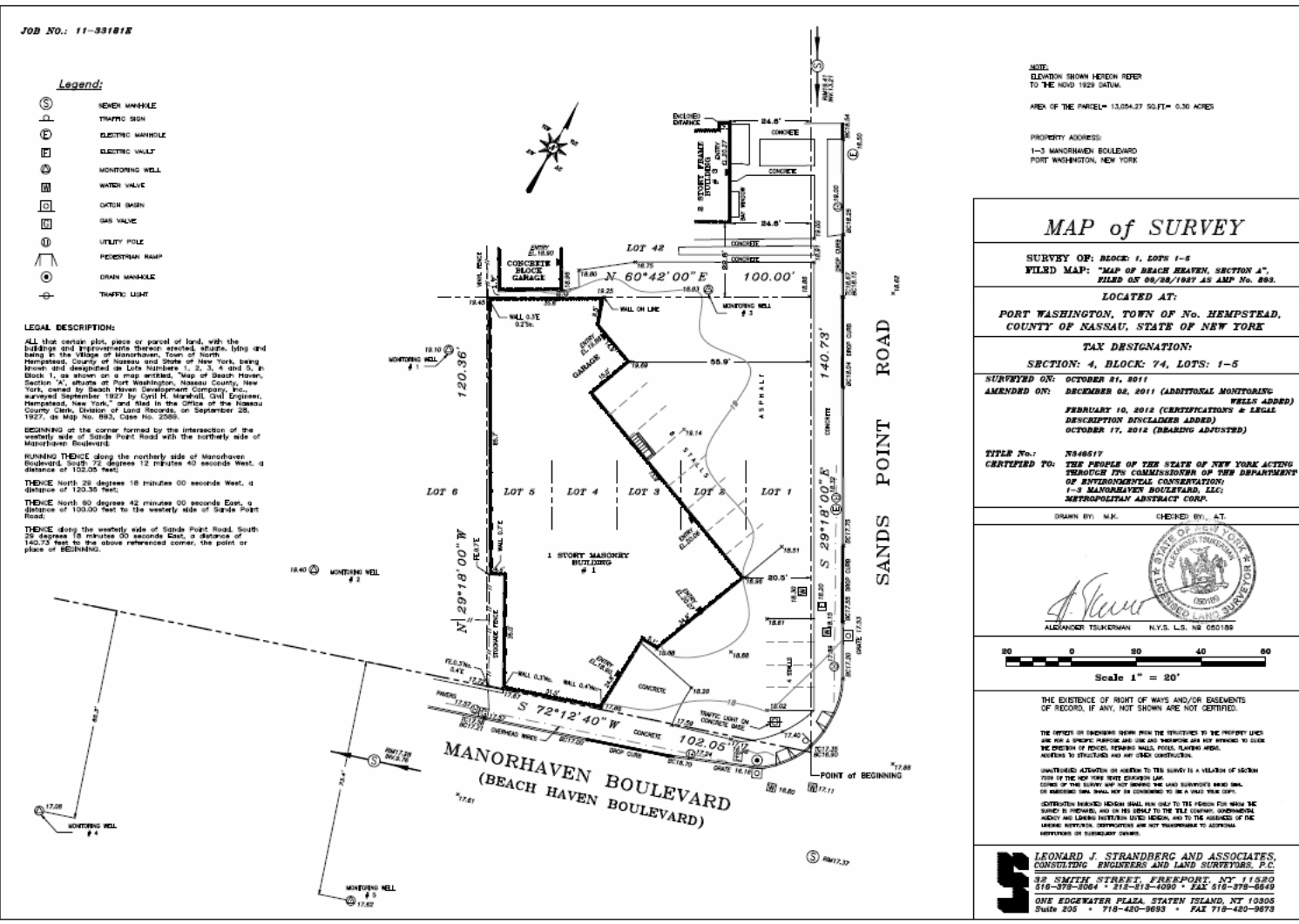
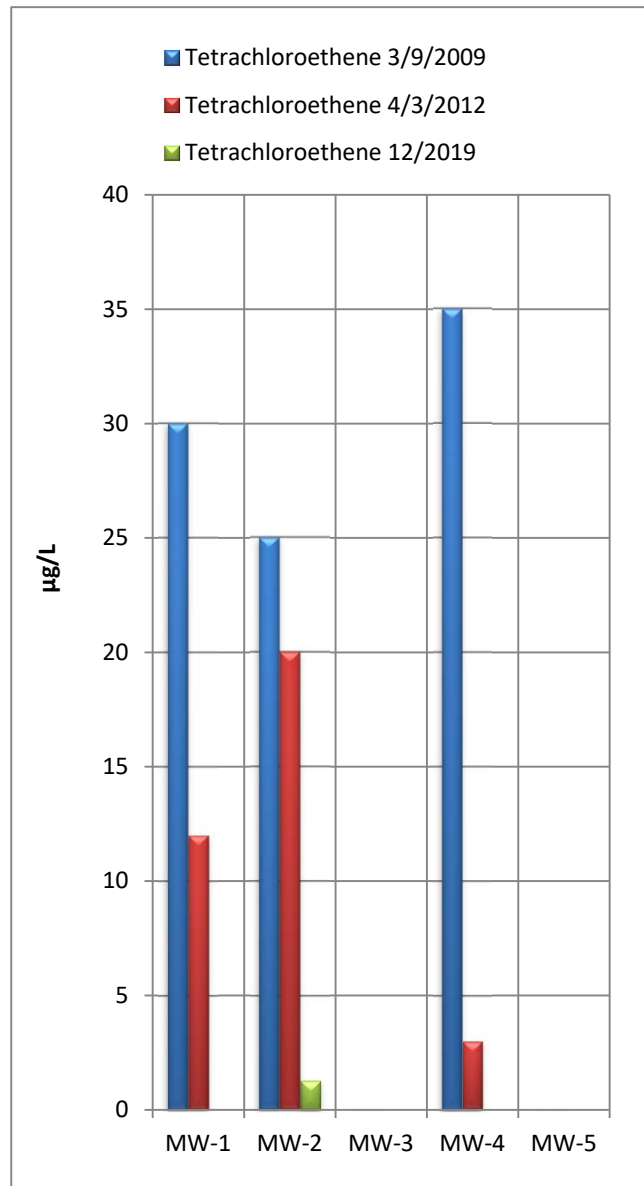
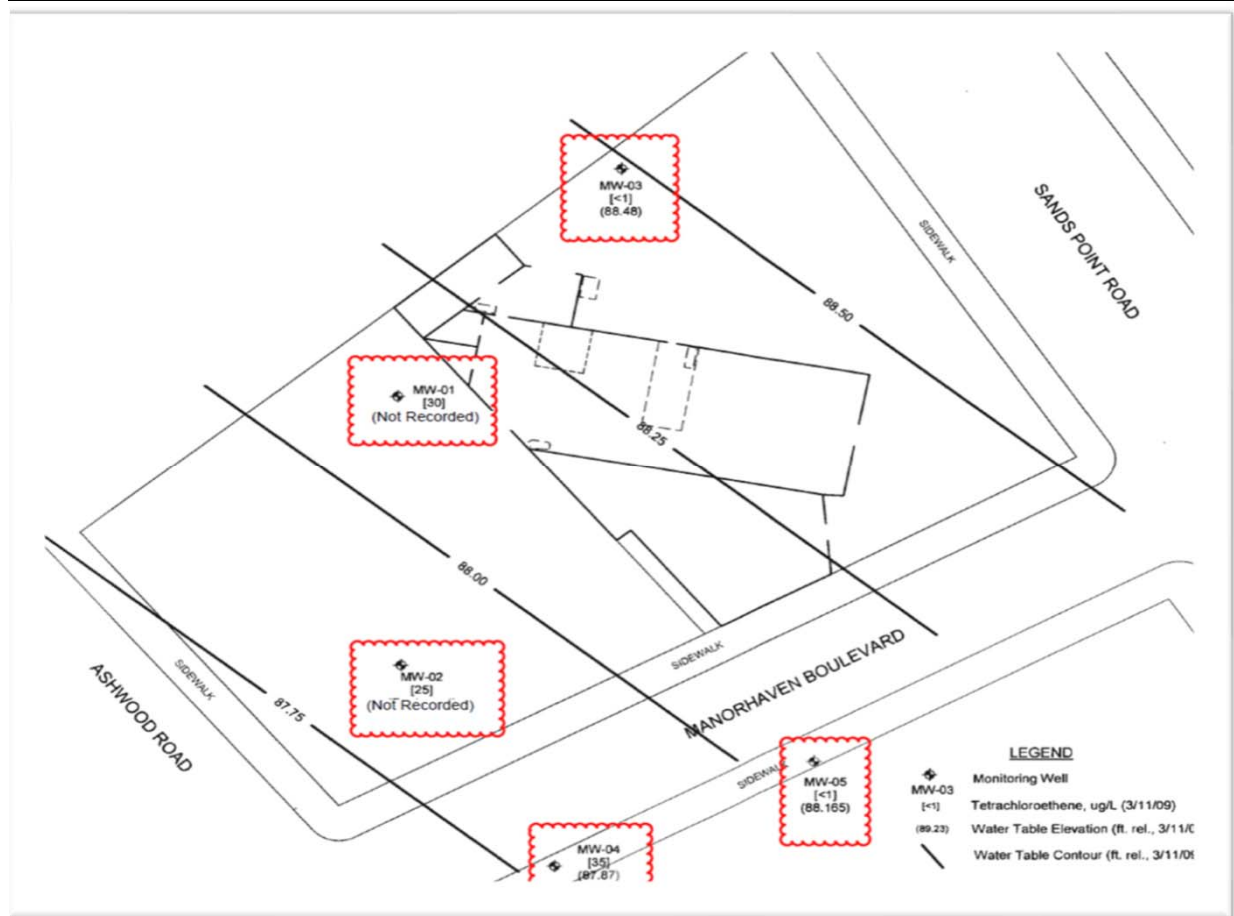


**Table 1**  
**Historical Groundwater VOC Analysis**  
**Chez Valet, Manorhaven, NY**

| ANALYTE                    | UNITS | NYSDEC<br>STANDARD<br>(SCG) | MW-1   | MW-2   | MW-3   | MW-4   | MW-5   |
|----------------------------|-------|-----------------------------|--------|--------|--------|--------|--------|
|                            |       |                             | 3/9/09 | 3/9/09 | 3/9/09 | 3/9/09 | 3/9/09 |
| Tetrachloroethene 3/9/2009 | ug/L  | 5                           | 30     | 25     | 0      | 35     | 0      |
| Tetrachloroethene 4/3/2012 | ug/L  | 5                           | 12     | 20     | 0      | 3      | 0      |
| Tetrachloroethene 12/2019  | ug/L  | 5                           |        | 1.3    |        |        |        |
| % Reduction                | ug/L  |                             | 60%    | 95%    |        | 91%    |        |





# Groundwater Analytical Data Package



Tuesday, December 17, 2019

Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

Project ID: CHEZ VALET  
SDG ID: GCE87237  
Sample ID#s: CE87237

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Sample Id Cross Reference

December 17, 2019

SDG I.D.: GCE87237

Project ID: CHEZ VALET

---

| Client Id  | Lab Id  | Matrix       |
|------------|---------|--------------|
| CHEZ VALET | CE87237 | GROUND WATER |



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

December 17, 2019

FOR: Attn: Kyle Kreter  
Cody Ehlers Group  
935 White Plains Road  
Trumbull, CT 06611

## Sample Information

Matrix: GROUND WATER  
Location Code: CEG  
Rush Request: Standard  
P.O.#:

## Custody Information

Collected by:  
Received by: SW  
Analyzed by: see "By" below

| Date     | Time  |
|----------|-------|
| 12/12/19 | 11:00 |
| 12/13/19 | 14:16 |

## Laboratory Data

SDG ID: GCE87237  
Phoenix ID: CE87237

Project ID: CHEZ VALET  
Client ID: CHEZ VALET

| Parameter                    | Result | RL/<br>PQL | Units | Dilution | Date/Time | By | Reference |
|------------------------------|--------|------------|-------|----------|-----------|----|-----------|
| <b>Halogenated Volatiles</b> |        |            |       |          |           |    |           |
| 1,1,1,2-Tetrachloroethane    | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,1,1-Trichloroethane        | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,1,2,2-Tetrachloroethane    | ND     | 0.50       | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,1,2-Trichloroethane        | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,1-Dichloroethane           | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,1-Dichloroethene           | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,1-Dichloropropene          | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,2,3-Trichloropropane       | ND     | 0.25       | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,2-Dibromo-3-chloropropane  | ND     | 0.50       | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,2-Dibromoethane            | ND     | 0.25       | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,2-Dichlorobenzene          | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,2-Dichloroethane           | ND     | 0.60       | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,2-Dichloropropane          | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,3-Dichlorobenzene          | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,3-Dichloropropane          | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 1,4-Dichlorobenzene          | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| 2,2-Dichloropropane          | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| Bromobenzene                 | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| Bromodichloromethane         | ND     | 0.50       | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| Bromoform                    | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| Bromomethane                 | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| Carbon tetrachloride         | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| Chlorobenzene                | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| Chloroethane                 | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| Chloroform                   | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |
| Chloromethane                | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C   |

| Parameter                      | Result | RL/<br>PQL | Units | Dilution | Date/Time | By | Reference  |
|--------------------------------|--------|------------|-------|----------|-----------|----|------------|
| cis-1,2-Dichloroethene         | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| cis-1,3-Dichloropropene        | ND     | 0.40       | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| Dibromochloromethane           | ND     | 0.50       | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| Dibromomethane                 | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| Dichlorodifluoromethane        | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| Methylene chloride             | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| Tetrachloroethene              | 1.3    | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| trans-1,2-Dichloroethene       | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| trans-1,3-Dichloropropene      | ND     | 0.40       | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| trans-1,4-dichloro-2-butene    | ND     | 2.5        | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| Trichloroethene                | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| Trichlorofluoromethane         | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| Trichlorotrifluoroethane       | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| Vinyl chloride                 | ND     | 1.0        | ug/L  | 1        | 12/16/19  | MH | SW8260C    |
| <b><u>QA/QC Surrogates</u></b> |        |            |       |          |           |    |            |
| % 1,2-dichlorobenzene-d4       | 94     |            | %     | 1        | 12/16/19  | MH | 70 - 130 % |
| % Bromofluorobenzene           | 93     |            | %     | 1        | 12/16/19  | MH | 70 - 130 % |
| % Dibromofluoromethane         | 102    |            | %     | 1        | 12/16/19  | MH | 70 - 130 % |
| % Toluene-d8                   | 93     |            | %     | 1        | 12/16/19  | MH | 70 - 130 % |

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL  
BRL=Below Reporting Level L=Biased Low  
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

#### **Volatile Comment:**

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 17, 2019**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
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## QA/QC Report

December 17, 2019

### QA/QC Data

SDG I.D.: GCE87237

| Parameter                                                  | Blank | Blk<br>RL | LCS<br>% | LCSD<br>% | LCS<br>RPD | MS<br>% | MSD<br>% | MS<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|------------------------------------------------------------|-------|-----------|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
| QA/QC Batch 510615 (ug/L), QC Sample No: CE87419 (CE87237) |       |           |          |           |            |         |          |           |                    |                    |
| <b>Volatiles - Ground Water</b>                            |       |           |          |           |            |         |          |           |                    |                    |
| 1,1,1,2-Tetrachloroethane                                  | ND    | 1.0       | 94       | 93        | 1.1        |         |          |           | 70 - 130           | 30                 |
| 1,1,1-Trichloroethane                                      | ND    | 1.0       | 89       | 88        | 1.1        |         |          |           | 70 - 130           | 30                 |
| 1,1,2,2-Tetrachloroethane                                  | ND    | 0.50      | 98       | 96        | 2.1        |         |          |           | 70 - 130           | 30                 |
| 1,1,2-Trichloroethane                                      | ND    | 1.0       | 90       | 85        | 5.7        |         |          |           | 70 - 130           | 30                 |
| 1,1-Dichloroethane                                         | ND    | 1.0       | 85       | 84        | 1.2        |         |          |           | 70 - 130           | 30                 |
| 1,1-Dichloroethene                                         | ND    | 1.0       | 94       | 95        | 1.1        |         |          |           | 70 - 130           | 30                 |
| 1,1-Dichloropropene                                        | ND    | 1.0       | 86       | 85        | 1.2        |         |          |           | 70 - 130           | 30                 |
| 1,2,3-Trichloropropane                                     | ND    | 1.0       | 90       | 90        | 0.0        |         |          |           | 70 - 130           | 30                 |
| 1,2-Dibromo-3-chloropropane                                | ND    | 1.0       | 99       | 100       | 1.0        |         |          |           | 70 - 130           | 30                 |
| 1,2-Dibromoethane                                          | ND    | 1.0       | 90       | 91        | 1.1        |         |          |           | 70 - 130           | 30                 |
| 1,2-Dichlorobenzene                                        | ND    | 1.0       | 90       | 89        | 1.1        |         |          |           | 70 - 130           | 30                 |
| 1,2-Dichloroethane                                         | ND    | 1.0       | 87       | 85        | 2.3        |         |          |           | 70 - 130           | 30                 |
| 1,2-Dichloropropane                                        | ND    | 1.0       | 88       | 86        | 2.3        |         |          |           | 70 - 130           | 30                 |
| 1,3-Dichlorobenzene                                        | ND    | 1.0       | 89       | 89        | 0.0        |         |          |           | 70 - 130           | 30                 |
| 1,3-Dichloropropane                                        | ND    | 1.0       | 88       | 87        | 1.1        |         |          |           | 70 - 130           | 30                 |
| 1,4-Dichlorobenzene                                        | ND    | 1.0       | 89       | 87        | 2.3        |         |          |           | 70 - 130           | 30                 |
| 2,2-Dichloropropane                                        | ND    | 1.0       | 91       | 89        | 2.2        |         |          |           | 70 - 130           | 30                 |
| Bromobenzene                                               | ND    | 1.0       | 94       | 91        | 3.2        |         |          |           | 70 - 130           | 30                 |
| Bromodichloromethane                                       | ND    | 0.50      | 91       | 87        | 4.5        |         |          |           | 70 - 130           | 30                 |
| Bromoform                                                  | ND    | 1.0       | 97       | 96        | 1.0        |         |          |           | 70 - 130           | 30                 |
| Bromomethane                                               | ND    | 1.0       | 118      | 117       | 0.9        |         |          |           | 70 - 130           | 30                 |
| Carbon tetrachloride                                       | ND    | 1.0       | 94       | 94        | 0.0        |         |          |           | 70 - 130           | 30                 |
| Chlorobenzene                                              | ND    | 1.0       | 88       | 88        | 0.0        |         |          |           | 70 - 130           | 30                 |
| Chloroethane                                               | ND    | 1.0       | 96       | 96        | 0.0        |         |          |           | 70 - 130           | 30                 |
| Chloroform                                                 | ND    | 1.0       | 86       | 78        | 9.8        |         |          |           | 70 - 130           | 30                 |
| Chloromethane                                              | ND    | 1.0       | 99       | 100       | 1.0        |         |          |           | 70 - 130           | 30                 |
| cis-1,2-Dichloroethene                                     | ND    | 1.0       | 87       | 86        | 1.2        |         |          |           | 70 - 130           | 30                 |
| cis-1,3-Dichloropropene                                    | ND    | 0.40      | 89       | 89        | 0.0        |         |          |           | 70 - 130           | 30                 |
| Dibromochloromethane                                       | ND    | 0.50      | 98       | 96        | 2.1        |         |          |           | 70 - 130           | 30                 |
| Dibromomethane                                             | ND    | 1.0       | 88       | 85        | 3.5        |         |          |           | 70 - 130           | 30                 |
| Dichlorodifluoromethane                                    | ND    | 1.0       | 128      | 127       | 0.8        |         |          |           | 70 - 130           | 30                 |
| Methylene chloride                                         | ND    | 1.0       | 87       | 86        | 1.2        |         |          |           | 70 - 130           | 30                 |
| Tetrachloroethene                                          | ND    | 1.0       | 91       | 90        | 1.1        |         |          |           | 70 - 130           | 30                 |
| trans-1,2-Dichloroethene                                   | ND    | 1.0       | 88       | 86        | 2.3        |         |          |           | 70 - 130           | 30                 |
| trans-1,3-Dichloropropene                                  | ND    | 0.40      | 91       | 90        | 1.1        |         |          |           | 70 - 130           | 30                 |
| trans-1,4-dichloro-2-butene                                | ND    | 5.0       | 111      | 107       | 3.7        |         |          |           | 70 - 130           | 30                 |
| Trichloroethene                                            | ND    | 1.0       | 86       | 86        | 0.0        |         |          |           | 70 - 130           | 30                 |
| Trichlorofluoromethane                                     | ND    | 1.0       | 105      | 104       | 1.0        |         |          |           | 70 - 130           | 30                 |
| Trichlorotrifluoroethane                                   | ND    | 1.0       | 107      | 105       | 1.9        |         |          |           | 70 - 130           | 30                 |
| Vinyl chloride                                             | ND    | 1.0       | 100      | 99        | 1.0        |         |          |           | 70 - 130           | 30                 |
| % 1,2-dichlorobenzene-d4                                   | 93    | %         | 101      | 98        | 3.0        |         |          |           | 70 - 130           | 30                 |

## QA/QC Data

SDG I.D.: GCE87237

| Parameter              | Blk   |    | LCS<br>% | LCSD<br>% | LCS<br>RPD | MS<br>% | MSD<br>% | MS<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|------------------------|-------|----|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
|                        | Blank | RL |          |           |            |         |          |           |                    |                    |
| % Bromofluorobenzene   | 91    | %  | 97       | 98        | 1.0        |         |          |           | 70 - 130           | 30                 |
| % Dibromofluoromethane | 96    | %  | 103      | 99        | 4.0        |         |          |           | 70 - 130           | 30                 |
| % Toluene-d8           | 90    | %  | 102      | 100       | 2.0        |         |          |           | 70 - 130           | 30                 |

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference  
LCS - Laboratory Control Sample  
LCSD - Laboratory Control Sample Duplicate  
MS - Matrix Spike  
MS Dup - Matrix Spike Duplicate  
NC - No Criteria  
Intf - Interference



Phyllis Shiller, Laboratory Director  
December 17, 2019

Tuesday, December 17, 2019

Criteria: NY: GW

State: NY

## Sample Criteria Exceedances Report

GCE87237 - CEG

| SampNo  | Acode      | Phoenix Analyte             | Criteria                                | Result | RL   | Criteria | RL<br>Criteria | Analysis<br>Units |
|---------|------------|-----------------------------|-----------------------------------------|--------|------|----------|----------------|-------------------|
| CE87237 | \$8010GAWR | 1,2-Dibromoethane           | NY / TOGS - Water Quality / GA Criteria | ND     | 0.25 | 0.0006   | 0.0006         | ug/L              |
| CE87237 | \$8010GAWR | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND     | 0.50 | 0.04     | 0.04           | ug/L              |
| CE87237 | \$8010GAWR | 1,2,3-Trichloropropane      | NY / TOGS - Water Quality / GA Criteria | ND     | 0.25 | 0.04     | 0.04           | ug/L              |

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.





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## Analysis Comments

December 17, 2019

SDG I.D.: GCE87237

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

### **VOA Narration**

#### **CHEM17 12/16/19-1:** CE87237

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 22% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.034 (0.05), Bromoform 0.071 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.032 (0.05)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



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## **NY Temperature Narration**

**December 17, 2019**

**SDG I.D.: GCE87237**

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The samples in this delivery group were received at 2.4°C.  
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

