

**BUILDING 700 (FORMERLY 330D)  
STAR GROUP (AKA MEEHAN OIL)  
CALL CENTER INDOOR AIR QUALITY  
TESTING SUMMARY REPORT**

**AT**

**IPARK 84  
FORMER IBM EAST FISHKILL FACILITY**

**SEPTEMBER 2020  
(UPDATED MARCH 2021 TO INCLUDE  
DATA USABILITY SUMMARY REPORT)**

**PREPARED FOR:**

**JESSICA LACLAIR  
NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION  
DEPT. OF ENVIRONMENTAL REMEDIATION  
625 BROADWAY  
ALBANY, NEW YORK 12233-7013**

**WALDEN ENVIRONMENTAL ENGINEERING, PLLC**

**Industry Leader in Environmental Engineering Consulting**

———— PROACTIVE SOLUTIONS SINCE 1995 ————



Sent via email to [jess.laclair@dec.ny.gov](mailto:jess.laclair@dec.ny.gov)

September 8, 2020  
iPARK0118.38

Ms. Jessica LaClair  
Environmental Engineer  
Division of Environmental Remediation  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-7013

Re: iPark 84, Former IBM East Fishkill Facility  
Building 700 (Formerly Building 330D)  
Star Group (aka Meehan Oil) Call Center  
Indoor Air Quality Testing Summary Report

Dear Ms. LaClair:

Walden Environmental Engineering, PLLC (Walden) has prepared this letter to summarize the results of the indoor air quality (IAQ) testing conducted on July 7, 2020 on the second floor of Building 700 (formerly Building 330D). Refer to Figure 1 for the site location map. Building 700 is owned by iPark East Fishkill, LLC (iPark); a customer service call center (Star Group, aka Meehan Oil) is leasing space on the second floor of Building 700 immediately above the Crepini space. The slab in the Crepini space is currently depressurized by a Sub Slab Depressurization System (SSDS). At full capacity, the Call Center is expected to hold approximately 125 employees. The purpose of the IAQ testing was to verify that indoor air quality is acceptable in the Call Center space.

Walden, at the request of iPark, performed the IAQ testing in accordance with prescribed protocols previously approved by NYSDEC. All work was performed in accordance with the *RCRA Facility Investigation (RFI) VOC Source Assessment Work Plan* (RFI Work Plan) dated June 15, 2009, prepared by Sanborn, Head Engineering, PC and Walden's IAQ Testing Plan letter (Testing Plan) dated June 11, 2020 which was approved by NYSDEC on June 30, 2020. A copy of the approved Testing Plan is included in Appendix A.



### **Summary of HVAC Conditions Within the Building**

The Call Center space in Building 700 is served by the existing HVAC system, which ran continuously throughout interior renovations. During the July 7<sup>th</sup> IAQ sampling, iPark operated the HVAC system under normal conditions.

With the exception of incidental cleaning and sanitizing agents, no chemicals are stored within this office space. A copy of the Indoor Air Quality Questionnaire and Building Inventory completed during the IAQ sampling event is presented in Appendix B.

### **Summary of IAQ Testing**

IAQ testing was conducted in accordance with the procedures outlined in the NYSDEC-approved RFI Work Plan and Testing Plan. Samples were collected using 6-liter, individually certified clean, stainless-steel Summa<sup>®</sup> canisters. The Summa<sup>®</sup> Canisters were calibrated by the laboratory with individually certified flow controllers to obtain 8-hour time-averaged samples. Indoor air samples were collected from a height of approximately three (3) above the floor at the following five (5) locations throughout the Call Center; the sampling locations are depicted on Figure 2:

- IA-1: Stairwell/Reception Area
- IA-2: Common Area (lunch tables, gathering area)
- IA-3: Conference Room Area (central portion of the space)
- IA-4: Closed Offices Area (southern portion of the space)
- IA-5: Office Open Area (northern portion of the space)

A duplicate sample (DUPLICATE) was collected at location IA-2: Common Area. One (1) outdoor ambient air sample (AA-01) was collected from outside the northwest portion of the building adjacent to one of the air intakes for the HVAC system to assess background conditions and any potential impacts on the IAQ results.

PID readings were collected at each sample location immediately before sample collection began to evaluate whether VOCs were present in the Call Center and had the potential to impact the IAQ results. The following PID readings were recorded:



| Sample ID | PID Readings<br>(ppm) |
|-----------|-----------------------|
| IA-1      | 0.1                   |
| IA-2      | 0.1                   |
| IA-3      | 0.0                   |
| IA-4      | 0.1                   |
| IA-5      | 0.1                   |
| AA-1      | 0.0                   |

These PID screening measurements indicated no apparent air quality impacts. The presence of cleaning products was recorded in the tenant space (refer to Appendix B).

All samples were transferred to Phoenix Labs of Manchester, CT, a NYSDOH ELAP certified laboratory (NYSDOH ELAP #11301) under chain of custody for analysis of volatile organic compound (VOC) analytes via modified Method TO-15 (full list) to achieve lower reporting limits via selective ion monitoring for TCE, vinyl chloride and carbon tetrachloride. A summary of field sampling information is provided in Table 1. The IAQ laboratory analytical data are provided in Table 2. Photos taken during the sampling are provided in Appendix C. The full laboratory analytical report is provided in Appendix D. A Data Usability Summary Report (DUSR) is being prepared and will be submitted under separate cover.

### **Results and Discussion**

The Call Center IAQ analytical data were compared to the typical indoor air background concentrations published in USEPA's 2001 Building Assessment and Survey Evaluation (BASE) database. When developing BASE, USEPA collected indoor air samples at randomly selected office and commercial buildings using Summa<sup>®</sup> canisters. Table 2 presents the Call Center IAQ data compared to the 75<sup>th</sup>, 90<sup>th</sup>, 95<sup>th</sup> and 99<sup>th</sup> percentile indoor air BASE concentrations for reference in comparing the VOC data to typical indoor background concentrations.

All of the VOC concentrations detected in the second-floor Call Center IAQ samples were within or below the range of background concentrations listed in the USEPA BASE database as noted in Table 2, indicating that indoor air quality is acceptable. Based on the results from the IAQ testing presented herein, please confirm that the Call Center within Building 700 is suitable for tenant occupancy.



Ms. Jessica LaClair  
Building 700 (330D) Star Group Call Center IAQ Testing  
September 8, 2020

- 4 -



Please call me at (516) 624-7200 if you have any questions or need any additional information.

Very truly yours,  
Walden Environmental Engineering, PLLC

A handwritten signature in black ink, appearing to read "Nora M. Brew". The signature is fluid and cursive, with the first name "Nora" being more prominent than the last name "Brew".

Nora M. Brew, P.E.  
VP/Senior Project Manager

Attachments:

Figure 1 – Site Location Map  
Figure 2 – Sampling Locations

Table 1 – Summary of Field Information  
Table 2 – Summary of IAQ Analysis (Updated based on DUSR)

Appendix A - IAQ Testing Plan (Walden, June 11, 2020)  
Appendix B – Indoor Air Quality Questionnaire and Building Inventory  
Appendix C – Photographic Log of Sampling Locations  
Appendix D – Laboratory Analytical Report (Category B Deliverables)  
Appendix E - Data Usability Summary Report (added March 2021)

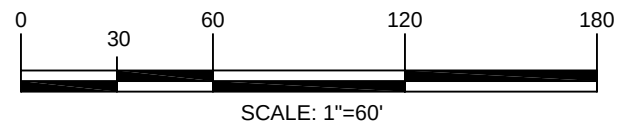
cc: J. Kenney, NYSDOH  
C. Monheit, iPark  
M. Buckley, iPark  
D. Chartrand, IBM

Z:\iPark0118\iPark0118.38 - Bldg 330D Star Call Center\IAQ Call Center-Second Floor\IAQ Sampling Report\B330D Star Call Center IAQ Testing Report 9.8.2020.docx



Star Call Center (Second Floor)

**SITE PLAN**  
**SCALE: 1" = 60'-0"**



- UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 7209 OF NEW YORK STATE EDUCATION LAW.
- COPIES OF THIS PLAN NOT BEARING THE PROFESSIONAL ENGINEER'S INKED SEAL OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY.

| REVISION |      |
|----------|------|
| No.      | DATE |
| COMMENTS |      |
|          |      |
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|          |      |
|          |      |
|          |      |

FOR: **BUILDING 700 (FORMER 330D)**  
iPark 84 Campus  
2070 State Route 52  
Hopewell Junction, NY 12533

DESIGNED BY: NMB / GW  
APPROVED BY: JMH

DRAWN BY: EJK  
SCALE: AS NOTED

Site Plan  
Building 330D  
Star Group Call Center  
Second Floor

JOB NO: IPARK118.35  
DATE: 8/28/19  
11x17  
SHEET NO: 1 OF 2

FIGURE NO:  
**1**  
ISSUED  
REVISION NO:  
**0**



WALDEN ENVIRONMENTAL ENGINEERING, PLLC  
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Figure 2-IAQ Sampling Locations  
for Star Call Center-Second Floor



X- Sampling Location

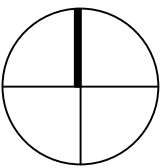
THE STAR GROUP TEST FIT  
iPARK 84, SECOND FLOOR  
200 NORTH DRIVE  
POUGHKEEPSIE, NY

| Issue:  | No: | Date:    |
|---------|-----|----------|
| SK-01   | 1   | 06/21/19 |
| SK-02   | 2   | 07/25/19 |
| SK-02.1 | 3   | 07/29/19 |
| SK-02.2 | 4   | 07/30/19 |
| SK-03   | 5   | 08/01/19 |
| SK-03.1 | 6   | 08/02/19 |
| SK-04   | 7   | 08/05/19 |
| SK-05   | 8   | 08/09/19 |
| SK-06   | 9   | 08/16/19 |
| SK-06.1 | 10  | 08/16/19 |



SK-06.1  
3/32" = 1'-0"  
08/16/2019

0 4' 8' 16'



Proj #: 19.0002146.000 Reviewed By: RP

Scale:



iPARK 84 Campus  
2070 NY-Route 52  
Hopewell Junction, New York

TABLE 1  
SUMMARY OF INDOOR AIR SAMPLE INFORMATION (JULY 7, 2020)  
BUILDING 700 (FORMER 330D) - Star Group Call Center

| Sample Location | Building Floor                   | Sample Matrix | Canister Number | Regulator Number | Sample Height (feet above floor) | Start Time (24-hour format) | Start Pressure (mmHg) | PID Reading (ppm) | Stop Time (24-hour format) | Stop Pressure (mmHg) | Temperature (°F) | Location Description                                | Chemicals Observed Near Sample Location |
|-----------------|----------------------------------|---------------|-----------------|------------------|----------------------------------|-----------------------------|-----------------------|-------------------|----------------------------|----------------------|------------------|-----------------------------------------------------|-----------------------------------------|
| IA-1            | Second                           | Indoor Air    | 28624           | 5398             | 2.5                              | 8:59                        | -30                   | 0.1               | 15:41                      | -5                   | 72               | Stairwell/Reception Area                            | Hand sanitizer                          |
| IA-2            | Second                           | Indoor Air    | 19426           | 6981             | 2.5                              | 8:45                        | -30                   | 0.1               | 15:45                      | -1                   | 72               | Common Area (lunch tables, gathering area)          | Hand sanitizer, dish soaps.             |
| IA-3            | Second                           | Indoor Air    | 475             | 5600             | 2.5                              | 7:48                        | -26                   | 0.0               | 13:15                      | -3                   | 72               | Conference Room Area (central portion of the space) | None observed                           |
| IA-4            | Second                           | Indoor Air    | 23343           | 5353             | 2.5                              | 8:55                        | -30                   | 0.1               | 16:19                      | -6                   | 72               | Closed Offices Area (southern portion of the space) | None observed                           |
| IA-5            | Second                           | Indoor Air    | 28562           | 3504             | 2.5                              | 8:56                        | -29                   | 0.1               | 16:21                      | -6                   | 72               | Office Open Area (northern portion of the space)    | Strong food odor (eggs)                 |
| Duplicate       | Second                           | Indoor Air    | 28581           | 7036             | 2.5                              | 8:45                        | -30                   | 0.1               | 16:18                      | -6                   | 72               | Common Area (lunch tables, gathering area)          | Hand sanitizer, dish soaps.             |
| Ambient Air     | Front of Building 700 Air Intake | Ambient Air   | 28549           | 7023             | 1                                | 9:07                        | -29                   | 0.0               | 16:11                      | -5                   | 85 (AM), 90 (PM) | NW Front of Building                                | None observed                           |



iPARK 84 Campus  
2070 NY-Route 52  
Hopewell Junction, New York

TABLE 2  
SUMMARY OF IAQ ANALYSIS (JULY 7, 2020)  
BUILDING 700 (FORMER 330D) - STAR GROUP CALL CENTER

| CAS Registry<br>Number          |                                  | USEPA BASE Database Tables - Typical<br>Background Concentrations for Indoor Air |                    |                    |                    | Collection Date<br>Sample ID<br>Matrix<br><br>Location<br><br>Units | 7/7/2020<br>IA-1<br>Air      |        | 7/7/2020<br>IA-2<br>Air |        | 7/7/2020<br>DUPLICATE<br>Air |        | 7/8/2020<br>IA-3<br>Air |        | 7/7/2020<br>IA-4<br>Air   |        | 7/7/2020<br>IA-5<br>Air |        | 7/7/2020<br>AMBIENT AIR<br>Air |        |        |
|---------------------------------|----------------------------------|----------------------------------------------------------------------------------|--------------------|--------------------|--------------------|---------------------------------------------------------------------|------------------------------|--------|-------------------------|--------|------------------------------|--------|-------------------------|--------|---------------------------|--------|-------------------------|--------|--------------------------------|--------|--------|
|                                 | NYSDOH Air<br>Guideline<br>Value | 75th<br>Percentile                                                               | 90th<br>Percentile | 95th<br>Percentile | 99th<br>Percentile |                                                                     | Stairwell/Recept<br>ion Area |        | Commo<br>n Area         |        | Comm<br>on<br>Area           |        | Confere<br>nce<br>Room  |        | Closed<br>Offices<br>Area |        | Office<br>Open<br>Area  |        | Outdoor Air<br>Intake          |        |        |
|                                 |                                  |                                                                                  |                    |                    |                    |                                                                     | Result                       | RL     | Result                  | RL     | Result                       | RL     | Result                  | RL     | Result                    | RL     | Result                  | RL     | Result                         | RL     | Result |
| <b>Volatiles (TO15) By TO15</b> |                                  |                                                                                  |                    |                    |                    |                                                                     |                              |        |                         |        |                              |        |                         |        |                           |        |                         |        |                                |        |        |
| 1,1,1-Trichloroethane           | 71-55-6                          |                                                                                  | 10.8               | 20.6               | 33.0               | 737.9                                                               | ug/m3                        | < 1.09 | 1.09                    | < 1.09 | 1.09                         | < 1.09 | 1.09                    | < 1.09 | 1.09                      | < 1.09 | 1.09                    | < 1.09 | 1.09                           | < 1.09 | 1.09   |
| 1,1-Dichloroethene              | 75-35-4                          |                                                                                  | <1.2               | <1.4               | <1.6               | <1.7                                                                | ug/m3                        | < 0.20 | 0.20                    | < 0.20 | 0.20                         | < 0.20 | 0.20                    | < 0.40 | 0.20                      | < 0.20 | 0.20                    | < 0.20 | 0.20                           | < 0.20 | 0.20   |
| 1,2,4-Trichlorobenzene          | 120-82-1                         |                                                                                  | <1.2               | <6.8               | <7.2               | <8.1                                                                | ug/m3                        | < 1.85 | 1.85                    | < 1.85 | 1.85                         | < 1.85 | 1.85                    | < 1.85 | 1.85                      | < 1.85 | 1.85                    | < 1.85 | 1.85                           | < 1.85 | 1.85   |
| 1,2-Dichlorobenzene             | 95-50-1                          |                                                                                  | <1.0               | <1.2               | <1.3               | 10.5                                                                | ug/m3                        | < 0.90 | 0.90                    | < 0.90 | 0.90                         | < 0.90 | 0.90                    | < 0.90 | 0.90                      | < 0.90 | 0.90                    | < 0.90 | 0.90                           | < 0.90 | 0.90   |
| 1,3-Dichlorobenzene             | 541-73-1                         |                                                                                  | <1.1               | <2.4               | <2.5               | <2.8                                                                | ug/m3                        | < 0.90 | 0.90                    | < 0.90 | 0.90                         | < 0.90 | 0.90                    | < 0.90 | 0.90                      | < 0.90 | 0.90                    | < 0.90 | 0.90                           | < 0.90 | 0.90   |
| 1,4-Dichlorobenzene             | 106-46-7                         |                                                                                  | 1.4                | 5.5                | 12.5               | 80.5                                                                | ug/m3                        | < 0.90 | 0.90                    | < 0.90 | 0.90                         | < 0.90 | 0.90                    | < 0.90 | 0.90                      | < 0.90 | 0.90                    | < 0.90 | 0.90                           | < 0.90 | 0.90   |
| Acetone                         | 67-64-1                          |                                                                                  | 59.8               | 98.9               | 120.2              | 226.6                                                               | ug/m3                        | 20.3   | 2.37                    | 20.5   | 2.37                         | 20.4   | 2.37                    | 38     | 2.37                      | 19.9   | 2.37                    | 20.1   | 2.37                           | 7.19   | 2.37   |
| Benzene                         | 71-43-2                          |                                                                                  | 5.1                | 9.4                | 12.5               | 25.0                                                                | ug/m3                        | 0.27   | 0.16                    | 0.26   | 0.16                         | 0.27   | 0.16                    | < 0.16 | 0.16                      | 0.3    | 0.16                    | 0.27   | 0.16                           | 0.4    | 0.16   |
| Carbon Tetrachloride            | 56-23-5                          |                                                                                  | <1.1               | <1.3               | 0.7                | 0.9                                                                 | ug/m3                        | 0.47   | 0.13                    | 0.52   | 0.13                         | 0.48   | 0.13                    | 0.51   | 0.13                      | 0.46   | 0.13                    | 0.51   | 0.13                           | 0.51   | 0.13   |
| Chlorobenzene                   | 108-90-7                         |                                                                                  | <0.8               | <0.9               | <1.0               | 1.0                                                                 | ug/m3                        | < 0.92 | 0.92                    | < 0.92 | 0.92                         | < 0.92 | 0.92                    | < 0.92 | 0.92                      | < 0.92 | 0.92                    | < 0.92 | 0.92                           | < 0.92 | 0.92   |
| Cis-1,2-Dichloroethene          | 156-59-2                         |                                                                                  | <1.2               | <1.9               | <2.0               | <2.2                                                                | ug/m3                        | < 0.20 | 0.20                    | < 0.20 | 0.20                         | < 0.20 | 0.20                    | < 0.20 | 0.20                      | < 0.20 | 0.20                    | < 0.20 | 0.20                           | < 0.20 | 0.20   |
| Dichlorodifluoromethane         | 75-71-8                          |                                                                                  | 10.5               | 16.5               | 32.9               | 81.3                                                                | ug/m3                        | 5.09   | 0.99                    | 4.88   | 0.99                         | 4.75   | 0.99                    | 4.37   | 0.99                      | 5.04   | 0.99                    | 5.09   | 0.99                           | 2.45   | 0.99   |
| Ethylbenzene                    | 100-41-4                         |                                                                                  | 3.4                | 5.7                | 7.6                | 18.5                                                                | ug/m3                        | < 0.65 | 0.65                    | < 0.65 | 0.65                         | < 0.65 | 0.65                    | < 0.65 | 0.65                      | < 0.65 | 0.65                    | < 0.65 | 0.65                           | < 0.65 | 0.65   |
| m,p-Xylene                      | 179601-23-1                      |                                                                                  | 12.2               | 22.2               | 28.5               | 67.6                                                                | ug/m3                        | 1.07   | 0.65                    | 1.06   | 0.65                         | 1.12   | 0.65                    | 2.42   | 0.65                      | 1.24   | 0.65                    | 1.11   | 0.65                           | < 0.65 | 0.65   |
| Methylene Chloride              | 75-09-2                          | 60                                                                               | 5.0                | 10.0               | 16.0               | 1155.6                                                              | ug/m3                        | 1.41   | 1.39                    | < 1.39 | 1.39                         | < 1.39 | 1.39                    | < 1.39 | 1.39                      | < 1.39 | 1.39                    | < 1.39 | 1.39                           | < 1.39 | 1.39   |
| o-Xylene                        | 95-47-6                          |                                                                                  | 4.4                | 7.9                | 11.2               | 20.1                                                                | ug/m3                        | < 0.65 | 0.65                    | < 0.65 | 0.65                         | < 0.65 | 0.65                    | 0.85   | 0.65                      | < 0.65 | 0.65                    | < 0.65 | 0.65                           | < 0.65 | 0.65   |
| Tetrachloroethene               | 127-18-4                         | 30                                                                               | 5.9                | 15.9               | 25.4               | 55.6                                                                | ug/m3                        | 1.19   | 0.68                    | 1.18   | 0.68                         | 1.25   | 0.68                    | 2.24   | 0.68                      | 1.13   | 0.68                    | 1.19   | 0.68                           | < 0.68 | 0.68   |
| Toluene                         | 108-88-3                         |                                                                                  | 25.9               | 43.0               | 70.8               | 348.9                                                               | ug/m3                        | 20.1   | 0.75                    | 20     | 0.75                         | 21     | 0.75                    | 18     | 0.75                      | 20.3   | 0.75                    | 20.5   | 0.75                           | < 0.75 | 0.75   |
| Trichloroethene                 | 79-01-6                          | 2                                                                                | 1.2                | 4.2                | 6.5                | 57.0                                                                | ug/m3                        | < 0.20 | 0.20                    | < 0.20 | 0.20                         | < 0.20 | 0.20                    | 0.32   | 0.20                      | < 0.20 | 0.20                    | < 0.20 | 0.20                           | < 0.20 | 0.20   |
| Trichlorofluoromethane          | 75-69-4                          |                                                                                  | 6.7                | 18.1               | 54.0               | 860.6                                                               | ug/m3                        | 45.4   | 0.84                    | 44.9   | 0.84                         | 45.4   | 0.84                    | 50.5   | 0.84                      | 44.5   | 0.84                    | 45     | 0.84                           | 2.26   | 0.84   |
| Trichlorotrifluoroethane        | 76-13-1                          |                                                                                  | <3.0               | 3.5                | 9.4                | 19.7                                                                | ug/m3                        | < 1.15 | 1.15                    | < 1.15 | 1.15                         | < 1.15 | 1.15                    | < 1.15 | 1.15                      | < 1.15 | 1.15                    | < 1.15 | 1.15                           | < 1.15 | 1.15   |
| Vinyl Chloride                  | 75-01-4                          |                                                                                  | <1.0               | <1.9               | <2.2               | <2.6                                                                | ug/m3                        | < 0.05 | .05                     | < 0.05 | 0.05                         | < 0.05 | 0.05                    | < 0.05 | 0.05                      | < 0.05 | 0.05                    | < 0.05 | 0.05                           | < 0.05 | 0.05   |

Notes:

Concentrations are provided in micrograms per cubic meter (µg/m³).

Highlighted analytes are included in the NYSDOH Decision Matrices.

Result Detected

APPENDIX A  
IAQ TESTING PLAN (WALDEN, JUNE 11, 2020)

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau D

625 Broadway, 12th Floor, Albany, NY 12233-7013

P: (518) 402-9676 | F: (518) 402-9773

www.dec.ny.gov

June 30, 2020

Joseph Cotter  
iPark 84  
200 North Drive  
Hopewell Junction, NY 12533

Re: Building 330D 2<sup>nd</sup> Floor – Meehan Oil Call Center  
Indoor Air Quality Testing Plan  
Former IBM East Fishkill Facility, East Fishkill, New York  
NYSDEC Site No. 314054, EPA ID NYD000707901

Dear Mr. Cotter:

The Department of Environmental Conservation and Department of Health (Departments) have reviewed the Indoor Air Quality (IAQ) Testing Plan submitted by Walden Environmental Engineering, PLLC on behalf of National Resources on June 11, 2020. The IAQ testing plan will evaluate the indoor air quality on the second floor of Building 330D, where a new call center will be located. The call center area is above the Crepini space, which has a sub-slab depressurization system operating.

This IAQ Testing Plan is conditionally approved with the inclusion and completion of the product inventory/building questionnaire for the second-floor space. If you have any questions, please feel free to contact me at (518) 402-9821.

Sincerely,



Jessica LaClair  
Project Manager  
Remedial Section A, Remedial Bureau D  
Division of Environmental Remediation

ec: M. Buckley, iPark  
C. Monheit, National Resources  
N. Brew, Walden  
J. Heaney, Walden  
D. Chartrand, IBM  
E. Lutz, GF  
G. Marone, GF  
S. Edwards, NYSDEC - DER  
J. Armitage, NYSDEC - DER  
B. Conlon, NYSDEC - OGC



Department of  
Environmental  
Conservation



J. Kenney, NYSDOH  
M. Schuck, NYSDOH





Sent via email to [jess.laclair@dec.ny.gov](mailto:jess.laclair@dec.ny.gov)

June 11, 2020  
iPARK0118.38

Jessica LaClair  
Environmental Engineer  
Division of Environmental Remediation  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-7013

Re: iPark 84, Former IBM East Fishkill Facility  
Building 700 (formerly Building 330D)  
Star Group aka Meehan Oil Call Center  
Indoor Air Quality Testing Plan

Dear Ms. LaClair:

Walden Environmental Engineering, PLLC (Walden) has prepared this letter to summarize the Indoor Air Quality (IAQ) testing proposed to evaluate indoor air quality within Building 700 (formerly building 330D) at the Former IBM East Fishkill facility (Facility). A customer service call center is leasing space in Building 700 on the second floor immediately above the Crepini space. The slab of the Crepini space is currently depressurized by a Sub Slab Depressurization System (SSDS). It is understood that NYSDEC and NYSDOH require this sampling to be completed and the results reported to the State to verify that IAQ is acceptable in this space.

Walden, at the request of iPark, shall perform the IAQ testing in accordance with the procedures detailed in the June 15, 2009 *RCRA Facility Investigation (RFI) VOC Source Assessment Work Plan (RFI Work Plan)*, prepared on behalf of IBM) which was previously approved by NYSDEC. The proposed IAQ sampling locations are shown on Figure 2 and listed below. The actual sampling locations will be determined in the field. Any significant changes from the locations shown on Figure 2 will be discussed with NYSDEC and NYSDOH to gain the State's concurrence before sample collection begins. The call center space in Building 700 is served by the existing HVAC system which has run continuously throughout interior renovations. The HVAC system will be operating during the IAQ sampling. With the exception of incidental cleaning agents, no chemicals are stored within this office space. At full capacity, the call center is expected to hold approximately 125 employees.



| Sample ID | Sampling Area                                       |
|-----------|-----------------------------------------------------|
| IA-1      | Stairwell/Reception Area                            |
| IA-2      | Common Area (lunch tables, gathering area)          |
| IA-3      | Conference Room Area (central portion of the space) |
| IA-4      | Closed Offices Area (southern portion of the space) |
| IA-5      | Office Open Area (northern portion of the space)    |

In addition to the samples referenced above, one duplicate sample (IA-Duplicate) will be collected at one of the sample locations which will be determined in the field. One outdoor ambient air sample (AA-01) will be collected at the HVAC unit intake to assess background conditions and identify any background impacts to IAQ.

All samples will be submitted to Phoenix Labs of Manchester, CT, a NYSDOH ELAP certified laboratory (NYSDOH ELAP #11301) for analysis of VOC analytes via Method TO-15. The analysis will include a modified Method TO-15 as specified in the June 2009 *RFI Work Plan* to achieve lower reporting limits via selective ion monitoring for TCE, vinyl chloride and carbon tetrachloride. The IAQ data will be evaluated, validated and presented in a summary report that will be submitted to NYSDEC and NYSDOH for review. Data generated during these Building 700 IAQ sampling activities will be shared with IBM. Note that iPark will provide the results of the IAQ sampling to the tenant within 45 days of receiving the validated data.

Please call me at (516) 624-7200 if you have any questions or need any additional information.

Very truly yours,  
Walden Environmental Engineering, PLLC

Nora M. Brew, P.E.  
Senior Project Manager

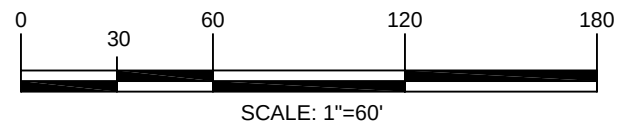
cc: J. Kenney, NYSDOH  
C. Monheit, National Resources  
M. Buckley, National Resources  
D. Chartrand, IBM

FIGURE 1  
SITE PLAN



Star Call Center (Second Floor)

**SITE PLAN**  
**SCALE: 1" = 60'-0"**



- UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 7209 OF NEW YORK STATE EDUCATION LAW.
- COPIES OF THIS PLAN NOT BEARING THE PROFESSIONAL ENGINEER'S INKED SEAL OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY.

| REVISION |      |
|----------|------|
| No.      | DATE |
| COMMENTS |      |
|          |      |
|          |      |
|          |      |
|          |      |
|          |      |

FOR: **BUILDING 700 (FORMER 330D)**  
iPark 84 Campus  
2070 State Route 52  
Hopewell Junction, NY 12533

DESIGNED BY: NMB / GW  
APPROVED BY: JMH

DRAWN BY: EJK  
SCALE: AS NOTED

Site Plan  
Building 330D  
Star Group Call Center  
Second Floor

JOB NO: IPARK118.35  
DATE: 8/28/19  
11x17  
SHEET NO: 1 OF 2

FIGURE NO:  
**1**  
REVISION NO:  
**0**

ISSUED



WALDEN ENVIRONMENTAL ENGINEERING, PLLC  
16 SPRING STREET  
OYSTER BAY, NEW YORK 11771  
P: (516) 624-7200 F: (516) 624-3219

WWW.WALDENENVIRONMENTALENGINEERING.COM

Walden Environmental  
Engineering

FIGURE 2  
IAQ SAMPLING LOCATIONS



Figure 2-Proposed IAQ Sampling Locations for Star Call Center-Second Floor



X- Proposed Sampling Location

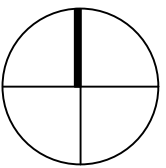
THE STAR GROUP TEST FIT  
iPARK 84, SECOND FLOOR  
200 NORTH DRIVE  
POUGHKEEPSIE, NY

| Issue:  | No: | Date:    |
|---------|-----|----------|
| SK-01   | 1   | 06/21/19 |
| SK-02   | 2   | 07/25/19 |
| SK-02.1 | 3   | 07/29/19 |
| SK-02.2 | 4   | 07/30/19 |
| SK-03   | 5   | 08/01/19 |
| SK-03.1 | 6   | 08/02/19 |
| SK-04   | 7   | 08/05/19 |
| SK-05   | 8   | 08/09/19 |
| SK-06   | 9   | 08/16/19 |
| SK-06.1 | 10  | 08/16/19 |



SK-06.1  
3/8" = 1'-0"  
08/16/2019

0 4' 8' 16'



Scale:

APPENDIX B  
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY



**NEW YORK STATE DEPARTMENT OF HEALTH  
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY  
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Herri Wright Date/Time Prepared 7/7/20  
Preparer's Affiliation Project Scientist Phone No. 845 207 3043

Purpose of Investigation Indoor Air Quality - 1 Park 118.38  
Star Group Call Center

**1. OCCUPANT:**

Interviewed: ☒ Y ☐ N

Last Name: Vitja First Name: Dardan (Danny)

Address: 200 North Drive

County: Dutchess

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

Number of Occupants/persons at this location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

**2. OWNER OR LANDLORD:** (Check if same as occupant ☐ )

Interviewed: ☒ Y ☐ N

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

**3. BUILDING CHARACTERISTICS**

**Type of Building:** (Circle appropriate response)

Residential  
Industrial

School  
Church

Commercial/Multi-use  
Other: \_\_\_\_\_

If the property is residential, type? (Circle appropriate response)

|              |                 |                   |
|--------------|-----------------|-------------------|
| Ranch        | 2-Family        | 3-Family          |
| Raised Ranch | Split Level     | Colonial          |
| Cape Cod     | Contemporary    | Mobile Home       |
| Duplex       | Apartment House | Townhouses/Condos |
| Modular      | Log Home        | Other: <u>NO</u>  |

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) Call center second floor

Does it include residences (i.e., multi-use)? Y / N If yes, how many? \_\_\_\_\_

Other characteristics:

Number of floors 1

Building age 1980s

Is the building insulated? Y / N

How air tight? Tight / Average / Not Tight

#### 4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

N/A

Airflow near source

N/A

Outdoor air infiltration

N/A

Infiltration into air ducts

Moderate

### 5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: N/A full crawlspace slab other \_\_\_\_\_
- c. Basement floor: N/A concrete dirt stone other \_\_\_\_\_
- d. Basement floor: N/A uncovered covered covered with \_\_\_\_\_
- e. Concrete floor: unsealed sealed sealed with \_\_\_\_\_
- f. Foundation walls: N/A poured block stone other \_\_\_\_\_
- g. Foundation walls: N/A unsealed sealed sealed with \_\_\_\_\_
- h. The basement is: N/A wet damp dry moldy
- i. The basement is: N/A finished unfinished partially finished
- j. Sump present? Y/N
- k. Water in sump? Y/N not applicable

Basement/Lowest level depth below grade: N/A (feet) lowest level on grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

N/A

### 6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

- |                            |                  |                                 |
|----------------------------|------------------|---------------------------------|
| <u>Hot air circulation</u> | Heat pump        | Hot water baseboard             |
| <u>Space Heaters</u>       | Stream radiation | Radiant floor                   |
| Electric baseboard         | Wood stove       | Outdoor wood boiler Other _____ |

The primary type of fuel used is:

- |                    |          |          |
|--------------------|----------|----------|
| <u>Natural Gas</u> | Fuel Oil | Kerosene |
| <u>Electric</u>    | Propane  | Solar    |
| Wood               | Coal     |          |

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in: Basement Outdoors Main Floor Other top floor

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Recently updated HVAC

## 7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement

1<sup>st</sup> Floor

crepini

2<sup>nd</sup> Floor

Star Group can be

3<sup>rd</sup> Floor

4<sup>th</sup> Floor

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y / ☒ N

b. Does the garage have a separate heating unit?

Y / ☒ N / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y / ☒ N / NA

Please specify \_\_\_\_\_

d. Has the building ever had a fire?

Y / ☒ N When? \_\_\_\_\_

e. Is a kerosene or unvented gas space heater present?

Y / ☒ N Where? \_\_\_\_\_

f. Is there a workshop or hobby/craft area?

Y / ☒ N Where & Type? \_\_\_\_\_

g. Is there smoking in the building?

Y / ☒ N How frequently? \_\_\_\_\_

h. Have cleaning products been used recently?

☒ Y / N When & Type? disinfectant

i. Have cosmetic products been used recently?

Y / N When & Type? \_\_\_\_\_

- j. Has painting/staining been done in the last 6 months? Y ☒ N Where & When? \_\_\_\_\_
- k. Is there new carpet, drapes or other textiles? Y ☒ N Where & When? \_\_\_\_\_
- l. Have air fresheners been used recently? Y ☒ N When & Type? \_\_\_\_\_
- m. Is there a kitchen exhaust fan? Y ☒ N If yes, where vented? \_\_\_\_\_
- n. Is there a bathroom exhaust fan? Y ☒ N If yes, where vented? \_\_\_\_\_
- o. Is there a clothes dryer? Y ☒ N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y ☒ N When & Type? \_\_\_\_\_
- Are there odors in the building? Y ☒ N  
If yes, please describe: \_\_\_\_\_

Do any of the building occupants use solvents at work? Y ☒ N  
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? \_\_\_\_\_

If yes, are their clothes washed at work?

Y ☒ N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)  
Yes, use dry-cleaning infrequently (monthly or less)  
Yes, work at a dry-cleaning service

No  
Unknown

Is there a radon mitigation system for the building/structure? Y ☒ N Date of Installation: \_\_\_\_\_  
Is the system active or passive? Active/Passive

## 9. WATER AND SEWAGE

Water Supply: Public Water ☒ Drilled Well Driven Well Dug Well Other: GFWWTP  
Sewage Disposal: Public Sewer ☒ Septic Tank Leach Field Dry Well Other: ☒

## 10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: \_\_\_\_\_

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

**11. FLOOR PLANS**

**Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.**

**Basement:**

See attached

**First Floor:**

See attached

## 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

See attached



## 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: MiniRae 3000

List specific products found in the residence that have the potential to affect indoor air quality.

| Location       | Product Description   | Size (units) | Condition* | Chemical Ingredients | Field Instrument Reading (units) | Photo**<br>Y/N |
|----------------|-----------------------|--------------|------------|----------------------|----------------------------------|----------------|
| Reception area | hand sanitizer        | 1 gal        | U          | Unknown              | 0.0                              | Y              |
| Office         | fire extinguisher     |              | UO         |                      | 0.0                              | Y              |
|                | windex                | .5 gal       | U          |                      | 0.0                              | Y              |
|                | neutral floor cleaner | 1 gal        | U          |                      | 0.0                              | Y              |
|                | lysol                 | 22 fl oz     | U          |                      | 0.0                              | Y              |
|                | Clorox clean          | 1.5 fl oz    | U          |                      | 0.0                              | Y              |
|                | Elite Washafloid      | 1 gal        | U          |                      | 0.0                              | Y              |
|                | Hydrogen Peroxide     |              |            |                      |                                  |                |
|                | Cleaner               | 1 gal        | U          |                      | 0.0                              | Y              |
|                | Profit disinfectant   |              | U          |                      | 0.0                              | Y              |
|                | lysol spray           |              | U          |                      | 0.0                              | Y              |
|                |                       |              |            |                      |                                  |                |
|                |                       |              |            |                      |                                  |                |
|                |                       |              |            |                      |                                  |                |
|                |                       |              |            |                      |                                  |                |
|                |                       |              |            |                      |                                  |                |
|                |                       |              |            |                      |                                  |                |
|                |                       |              |            |                      |                                  |                |
|                |                       |              |            |                      |                                  |                |

\* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**\*\* Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

**Indoor Air Quality Questionnaire and Building Inventory**  
**Product Inventory Photographs - July 7, 2020**  
**Former IBM East Fishkill Facility – Building 700 (330D)**  
**SECOND FLOOR STAR GROUP CALL CENTER**



Photo #1: Office



Photo #2: Office



Photo #3: Office

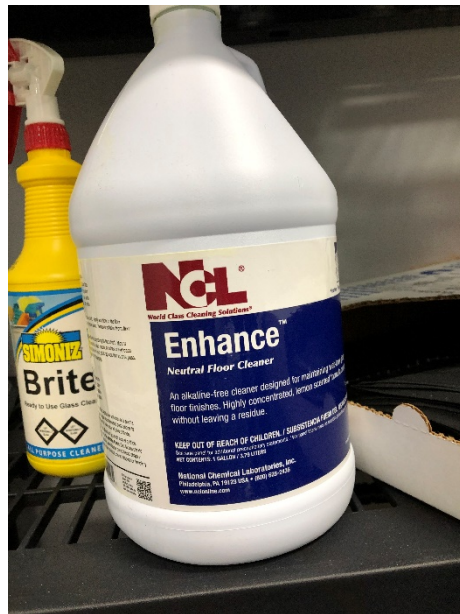


Photo #4: Office



Photo #5: Office



Photo #6: Office



Photo #7: Office

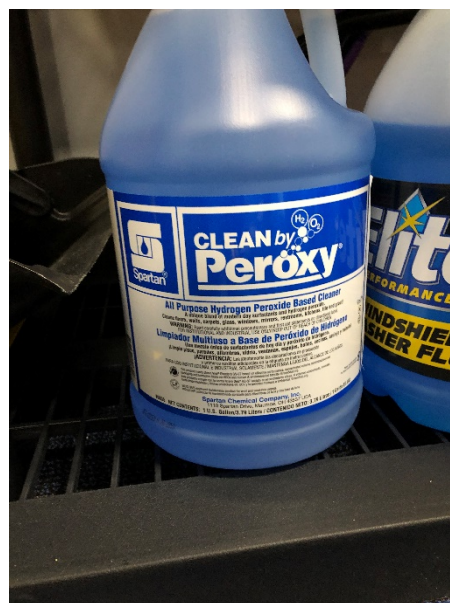


Photo #8: Office





Photo #9: Office



Photo #10: Office

APPENDIX C  
PHOTOGRAPHIC LOG OF SAMPLING LOCATIONS

**Site Photographs – July 7, 2020**

**Photograph #1**



Sample Location IA-1,  
Stairwell/Reception Area

**Photograph #2**



Sample Location IA-5,  
Office Open Area (northern portion of the  
space)

**Photograph #3**



Sample Location IA-3,  
Conference Room Area (central portion of the  
space)

**Photograph #4**



Sample Location AA-1,  
NW Front of Building

APPENDIX D  
LABORATORY ANALYTICAL REPORT (CATEGORY B DELIVERABLES)



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

Walden Environmental Engineering PLLC  
IPARK0118.33

GCG29877

Ver 2



# Data Package Table of Contents

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Tuesday, November 17, 2020

Attn: Nora Brew  
Walden Environmental Engineering PLLC  
16 Spring Street  
Oyster Bay, NY 11771

Project ID: IPARK0118.33  
SDG ID: GCG29877  
Sample ID#s: CG29877 - CG29882

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. 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", is written over a horizontal line.

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



**NY ANALYTICAL SERVICES PROTOCOL  
DATA PACKAGE**

**Client: Walden Environmental Engineering PLLC**  
**Project: IPARK0118.33**  
**Laboratory Project: GCG29877**



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



# **NY Analytical Services Protocol Format**

**November 17, 2020**

**SDG I.D.: GCG29877**

**Walden Environmental Engineering PLLC IPARK0118.33**

---

## **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.



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



## NY Analytical Services Protocol Format

November 17, 2020

SDG I.D.: GCG29877

Walden Environmental Engineering PLLC IPARK0118.33

---

### Laboratory Chronicle

| Sample  | Analysis         | Collection Date | Prep Date | Analysis Date | Analyst | Hold Time Met |
|---------|------------------|-----------------|-----------|---------------|---------|---------------|
| CG29877 | Volatiles (TO15) | 07/07/20        | 07/09/20  | 07/09/20      | KCA     | Y             |
| CG29878 | Volatiles (TO15) | 07/07/20        | 07/09/20  | 07/09/20      | KCA     | Y             |
| CG29879 | Volatiles (TO15) | 07/07/20        | 07/09/20  | 07/09/20      | KCA     | Y             |
| CG29880 | Volatiles (TO15) | 07/07/20        | 07/09/20  | 07/09/20      | KCA     | Y             |
| CG29881 | Volatiles (TO15) | 07/07/20        | 07/09/20  | 07/09/20      | KCA     | Y             |
| CG29882 | Volatiles (TO15) | 07/07/20        | 07/09/20  | 07/09/20      | KCA     | Y             |
| CG29883 | On Hold          | 07/07/20        | 07/08/20  | 07/08/20      |         | Y             |



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Tel. (860) 645-1102 Fax (860) 645-0823



## SDG Comments

November 17, 2020

SDG I.D.: GCG29877

---

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.





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

November 17, 2020

SDG I.D.: GCG29877

Project ID: IPARK0118.33

---

| Client Id            | Lab Id  | Matrix |
|----------------------|---------|--------|
| IA-DUP (CALL CENTER) | CG29877 | AIR    |
| IA-4 (CALL CENTER)   | CG29878 | AIR    |
| IA-5 (CALL CENTER)   | CG29879 | AIR    |
| IA-1 (CALL CENTER)   | CG29880 | AIR    |
| AA-1 (CALL CENTER)   | CG29881 | AIR    |
| IA-2 (CALL CENTER)   | CG29882 | AIR    |



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



## Analysis Report

November 17, 2020

FOR: Attn: Nora Brew  
Walden Environmental Engineering PLLC  
16 Spring Street  
Oyster Bay, NY 11771

### Sample Information

Matrix: AIR  
Location Code: WALDENE-IPARK  
Rush Request: 72 Hour  
P.O.#: 0118.33+.40  
Canister Id: 28581

### Custody Information

Collected by: EJ  
Received by: SW  
Analyzed by: see "By" below

### Date

07/07/20 16:18  
07/08/20 16:37

### Time

## Laboratory Data

SDG ID: GCG29877  
Phoenix ID: CG29877

Project ID: IPARK0118.33  
Client ID: IA-DUP (CALL CENTER)

| 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-Trichloroethane                    | ND             | 0.200      | 0.200       | ND              | 1.09        | 1.09        | 07/09/20  | KCA | 1        |
| 1,1-Dichloroethene                       | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| 1,2,4-Trichlorobenzene                   | ND             | 0.250      | 0.250       | ND              | 1.85        | 1.85        | 07/09/20  | KCA | 1        |
| 1,2-Dichlorobenzene                      | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| 1,3-Dichlorobenzene                      | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| 1,4-Dichlorobenzene                      | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| Acetone                                  | 8.59           | 1.00       | 1.00        | 20.4            | 2.37        | 2.37        | 07/09/20  | KCA | 1        |
| Benzene                                  | 0.085          | 0.050      | 0.050       | 0.27            | 0.16        | 0.16        | 07/09/20  | KCA | 1        |
| Carbon Tetrachloride                     | 0.076          | 0.020      | 0.020       | 0.48            | 0.13        | 0.13        | 07/09/20  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.200      | 0.200       | ND              | 0.92        | 0.92        | 07/09/20  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| Dichlorodifluoromethane                  | 0.961          | 0.200      | 0.200       | 4.75            | 0.99        | 0.99        | 07/09/20  | KCA | 1        |
| Ethylbenzene                             | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| m,p-Xylene                               | 0.259          | 0.150      | 0.150       | 1.12            | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.400      | 0.400       | ND              | 1.39        | 1.39        | 07/09/20  | KCA | 1        |
| o-Xylene                                 | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| Tetrachloroethene                        | 0.184          | 0.100      | 0.100       | 1.25            | 0.68        | 0.68        | 07/09/20  | KCA | 1        |
| Toluene                                  | 5.57           | 0.200      | 0.200       | 21.0            | 0.75        | 0.75        | 07/09/20  | KCA | 1        |
| Trichloroethene                          | ND             | 0.037      | 0.037       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| Trichlorofluoromethane                   | 8.09           | 0.150      | 0.150       | 45.4            | 0.84        | 0.84        | 07/09/20  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.150      | 0.150       | ND              | 1.15        | 1.15        | 07/09/20  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.020      | 0.020       | ND              | 0.05        | 0.05        | 07/09/20  | KCA | 1        |
| <b><u>QA/QC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 95             | %          | %           | 95              | %           | %           | 07/09/20  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 90             | %          | %           | 90              | %           | %           | 07/09/20  | KCA | 1        |
| % IS-Bromochloromethane                  | 97             | %          | %           | 97              | %           | %           | 07/09/20  | KCA | 1        |

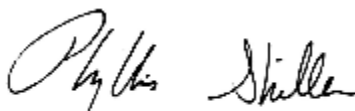
| Parameter             | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-----------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| % IS-Chlorobenzene-d5 | 98             | %          | %           | 98              | %           | %           | 07/09/20  | KCA | 1        |

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:**

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**Phyllis Shiller, Laboratory Director**

**November 17, 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

November 17, 2020

FOR: Attn: Nora Brew  
Walden Environmental Engineering PLLC  
16 Spring Street  
Oyster Bay, NY 11771

### Sample Information

Matrix: AIR  
Location Code: WALDENE-IPARK  
Rush Request: 72 Hour  
P.O.#: 0118.33+.40  
Canister Id: 23343

### Custody Information

Collected by: EJ  
Received by: SW  
Analyzed by: see "By" below

### Date

07/07/20 16:19  
07/08/20 16:37

### Time

## Laboratory Data

SDG ID: GCG29877  
Phoenix ID: CG29878

Project ID: IPARK0118.33  
Client ID: IA-4 (CALL CENTER)

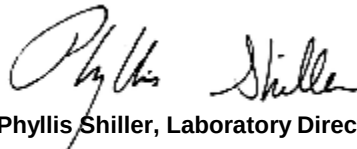
| Parameter                                | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| <b><u>Volatiles (TO15)</u></b>           |                |            |             |                 |             |             |           |     |          |
| 1,1,1-Trichloroethane                    | ND             | 0.200      | 0.200       | ND              | 1.09        | 1.09        | 07/09/20  | KCA | 1        |
| 1,1-Dichloroethene                       | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| 1,2,4-Trichlorobenzene                   | ND             | 0.250      | 0.250       | ND              | 1.85        | 1.85        | 07/09/20  | KCA | 1        |
| 1,2-Dichlorobenzene                      | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| 1,3-Dichlorobenzene                      | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| 1,4-Dichlorobenzene                      | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| Acetone                                  | 8.39           | 1.00       | 1.00        | 19.9            | 2.37        | 2.37        | 07/09/20  | KCA | 1        |
| Benzene                                  | 0.094          | 0.050      | 0.050       | 0.30            | 0.16        | 0.16        | 07/09/20  | KCA | 1        |
| Carbon Tetrachloride                     | 0.073          | 0.020      | 0.020       | 0.46            | 0.13        | 0.13        | 07/09/20  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.200      | 0.200       | ND              | 0.92        | 0.92        | 07/09/20  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| Dichlorodifluoromethane                  | 1.02           | 0.200      | 0.200       | 5.04            | 0.99        | 0.99        | 07/09/20  | KCA | 1        |
| Ethylbenzene                             | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| m,p-Xylene                               | 0.286          | 0.150      | 0.150       | 1.24            | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.400      | 0.400       | ND              | 1.39        | 1.39        | 07/09/20  | KCA | 1        |
| o-Xylene                                 | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| Tetrachloroethene                        | 0.167          | 0.100      | 0.100       | 1.13            | 0.68        | 0.68        | 07/09/20  | KCA | 1        |
| Toluene                                  | 5.40           | 0.200      | 0.200       | 20.3            | 0.75        | 0.75        | 07/09/20  | KCA | 1        |
| Trichloroethene                          | ND             | 0.037      | 0.037       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| Trichlorofluoromethane                   | 7.92           | 0.150      | 0.150       | 44.5            | 0.84        | 0.84        | 07/09/20  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.150      | 0.150       | ND              | 1.15        | 1.15        | 07/09/20  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.020      | 0.020       | ND              | 0.05        | 0.05        | 07/09/20  | KCA | 1        |
| <b><u>QA/QC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 97             | %          | %           | 97              | %           | %           | 07/09/20  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 93             | %          | %           | 93              | %           | %           | 07/09/20  | KCA | 1        |
| % IS-Bromochloromethane                  | 100            | %          | %           | 100             | %           | %           | 07/09/20  | 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 |
|-----------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| % IS-Chlorobenzene-d5 | 99             | %          | %           | 99              | %           | %           | 07/09/20  | KCA | 1        |

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:**

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Phyllis Shiller, Laboratory Director

November 17, 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

November 17, 2020

FOR: Attn: Nora Brew  
Walden Environmental Engineering PLLC  
16 Spring Street  
Oyster Bay, NY 11771

### Sample Information

Matrix: AIR  
Location Code: WALDENE-IPARK  
Rush Request: 72 Hour  
P.O.#: 0118.33+.40  
Canister Id: 28562

### Custody Information

Collected by: EJ  
Received by: SW  
Analyzed by: see "By" below

### Date

07/07/20 16:21  
07/08/20 16:37

### Time

## Laboratory Data

SDG ID: GCG29877  
Phoenix ID: CG29879

Project ID: IPARK0118.33  
Client ID: IA-5 (CALL CENTER)

| 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-Trichloroethane                    | ND             | 0.200      | 0.200       | ND              | 1.09        | 1.09        | 07/09/20  | KCA | 1        |
| 1,1-Dichloroethene                       | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| 1,2,4-Trichlorobenzene                   | ND             | 0.250      | 0.250       | ND              | 1.85        | 1.85        | 07/09/20  | KCA | 1        |
| 1,2-Dichlorobenzene                      | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| 1,3-Dichlorobenzene                      | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| 1,4-Dichlorobenzene                      | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| Acetone                                  | 8.45           | 1.00       | 1.00        | 20.1            | 2.37        | 2.37        | 07/09/20  | KCA | 1        |
| Benzene                                  | 0.084          | 0.050      | 0.050       | 0.27            | 0.16        | 0.16        | 07/09/20  | KCA | 1        |
| Carbon Tetrachloride                     | 0.081          | 0.020      | 0.020       | 0.51            | 0.13        | 0.13        | 07/09/20  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.200      | 0.200       | ND              | 0.92        | 0.92        | 07/09/20  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| Dichlorodifluoromethane                  | 1.03           | 0.200      | 0.200       | 5.09            | 0.99        | 0.99        | 07/09/20  | KCA | 1        |
| Ethylbenzene                             | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| m,p-Xylene                               | 0.255          | 0.150      | 0.150       | 1.11            | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.400      | 0.400       | ND              | 1.39        | 1.39        | 07/09/20  | KCA | 1        |
| o-Xylene                                 | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| Tetrachloroethene                        | 0.176          | 0.100      | 0.100       | 1.19            | 0.68        | 0.68        | 07/09/20  | KCA | 1        |
| Toluene                                  | 5.45           | 0.200      | 0.200       | 20.5            | 0.75        | 0.75        | 07/09/20  | KCA | 1        |
| Trichloroethene                          | ND             | 0.037      | 0.037       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| Trichlorofluoromethane                   | 8.02           | 0.150      | 0.150       | 45.0            | 0.84        | 0.84        | 07/09/20  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.150      | 0.150       | ND              | 1.15        | 1.15        | 07/09/20  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.020      | 0.020       | ND              | 0.05        | 0.05        | 07/09/20  | KCA | 1        |
| <b><u>QA/QC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 95             | %          | %           | 95              | %           | %           | 07/09/20  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 92             | %          | %           | 92              | %           | %           | 07/09/20  | KCA | 1        |
| % IS-Bromochloromethane                  | 99             | %          | %           | 99              | %           | %           | 07/09/20  | KCA | 1        |

Client ID: IA-5 (CALL CENTER)

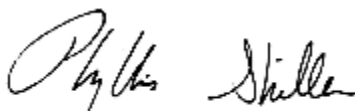
| Parameter             | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-----------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| % IS-Chlorobenzene-d5 | 99             | %          | %           | 99              | %           | %           | 07/09/20  | KCA | 1        |

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:**

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**Phyllis Shiller, Laboratory Director****November 17, 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

November 17, 2020

FOR: Attn: Nora Brew  
Walden Environmental Engineering PLLC  
16 Spring Street  
Oyster Bay, NY 11771

## Sample Information

Matrix: AIR  
Location Code: WALDENE-IPARK  
Rush Request: 72 Hour  
P.O.#: 0118.33+.40  
Canister Id: 28624

## Custody Information

Collected by: EJ  
Received by: SW  
Analyzed by: see "By" below

Date Time  
07/07/20 15:41  
07/08/20 16:37

## Laboratory Data

SDG ID: GCG29877  
Phoenix ID: CG29880

Project ID: IPARK0118.33  
Client ID: IA-1 (CALL CENTER)

| 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-Trichloroethane             | ND             | 0.200      | 0.200       | ND              | 1.09        | 1.09        | 07/09/20  | KCA | 1        |
| 1,1-Dichloroethene                | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| 1,2,4-Trichlorobenzene            | ND             | 0.250      | 0.250       | ND              | 1.85        | 1.85        | 07/09/20  | KCA | 1        |
| 1,2-Dichlorobenzene               | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| 1,3-Dichlorobenzene               | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| 1,4-Dichlorobenzene               | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| Acetone                           | 8.53           | 1.00       | 1.00        | 20.3            | 2.37        | 2.37        | 07/09/20  | KCA | 1        |
| Benzene                           | 0.086          | 0.050      | 0.050       | 0.27            | 0.16        | 0.16        | 07/09/20  | KCA | 1        |
| Carbon Tetrachloride              | 0.075          | 0.020      | 0.020       | 0.47            | 0.13        | 0.13        | 07/09/20  | KCA | 1        |
| Chlorobenzene                     | ND             | 0.200      | 0.200       | ND              | 0.92        | 0.92        | 07/09/20  | KCA | 1        |
| Cis-1,2-Dichloroethene            | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| Dichlorodifluoromethane           | 1.03           | 0.200      | 0.200       | 5.09            | 0.99        | 0.99        | 07/09/20  | KCA | 1        |
| Ethylbenzene                      | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| m,p-Xylene                        | 0.246          | 0.150      | 0.150       | 1.07            | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| Methylene Chloride                | 0.405          | 0.400      | 0.400       | 1.41            | 1.39        | 1.39        | 07/09/20  | KCA | 1        |
| o-Xylene                          | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| Tetrachloroethene                 | 0.175          | 0.100      | 0.100       | 1.19            | 0.68        | 0.68        | 07/09/20  | KCA | 1        |
| Toluene                           | 5.34           | 0.200      | 0.200       | 20.1            | 0.75        | 0.75        | 07/09/20  | KCA | 1        |
| Trichloroethene                   | ND             | 0.037      | 0.037       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| Trichlorofluoromethane            | 8.08           | 0.150      | 0.150       | 45.4            | 0.84        | 0.84        | 07/09/20  | KCA | 1        |
| Trichlorotrifluoroethane          | ND             | 0.150      | 0.150       | ND              | 1.15        | 1.15        | 07/09/20  | KCA | 1        |
| Vinyl Chloride                    | ND             | 0.020      | 0.020       | ND              | 0.05        | 0.05        | 07/09/20  | KCA | 1        |
| <b>QA/QC Surrogates/Internals</b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene              | 95             | %          | %           | 95              | %           | %           | 07/09/20  | KCA | 1        |
| % IS-1,4-Difluorobenzene          | 91             | %          | %           | 91              | %           | %           | 07/09/20  | KCA | 1        |
| % IS-Bromochloromethane           | 98             | %          | %           | 98              | %           | %           | 07/09/20  | KCA | 1        |



Client ID: IA-1 (CALL CENTER)

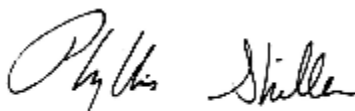
| Parameter             | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-----------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| % IS-Chlorobenzene-d5 | 98             | %          | %           | 98              | %           | %           | 07/09/20  | KCA | 1        |

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.

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**Phyllis Shiller, Laboratory Director****November 17, 2020****Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



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Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

November 17, 2020

FOR: Attn: Nora Brew  
Walden Environmental Engineering PLLC  
16 Spring Street  
Oyster Bay, NY 11771

## Sample Information

Matrix: AIR  
Location Code: WALDENE-IPARK  
Rush Request: 72 Hour  
P.O.#: 0118.33+.40  
Canister Id: 28549

## Custody Information

Collected by: EJ  
Received by: SW  
Analyzed by: see "By" below

## Date

07/07/20 16:16  
07/08/20 16:37

## Time

## Laboratory Data

SDG ID: GCG29877  
Phoenix ID: CG29881

Project ID: IPARK0118.33  
Client ID: AA-1 (CALL CENTER)

| 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-Trichloroethane             | ND             | 0.200      | 0.200       | ND              | 1.09        | 1.09        | 07/09/20  | KCA | 1        |
| 1,1-Dichloroethene                | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| 1,2,4-Trichlorobenzene            | ND             | 0.250      | 0.250       | ND              | 1.85        | 1.85        | 07/09/20  | KCA | 1        |
| 1,2-Dichlorobenzene               | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| 1,3-Dichlorobenzene               | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| 1,4-Dichlorobenzene               | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| Acetone                           | 3.03           | 1.00       | 1.00        | 7.19            | 2.37        | 2.37        | 07/09/20  | KCA | 1        |
| Benzene                           | 0.126          | 0.050      | 0.050       | 0.40            | 0.16        | 0.16        | 07/09/20  | KCA | 1        |
| Carbon Tetrachloride              | 0.081          | 0.020      | 0.020       | 0.51            | 0.13        | 0.13        | 07/09/20  | KCA | 1        |
| Chlorobenzene                     | ND             | 0.200      | 0.200       | ND              | 0.92        | 0.92        | 07/09/20  | KCA | 1        |
| Cis-1,2-Dichloroethene            | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| Dichlorodifluoromethane           | 0.495          | 0.200      | 0.200       | 2.45            | 0.99        | 0.99        | 07/09/20  | KCA | 1        |
| Ethylbenzene                      | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| m,p-Xylene                        | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| Methylene Chloride                | ND             | 0.400      | 0.400       | ND              | 1.39        | 1.39        | 07/09/20  | KCA | 1        |
| o-Xylene                          | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| Tetrachloroethene                 | ND             | 0.100      | 0.100       | ND              | 0.68        | 0.68        | 07/09/20  | KCA | 1        |
| Toluene                           | ND             | 0.200      | 0.200       | ND              | 0.75        | 0.75        | 07/09/20  | KCA | 1        |
| Trichloroethene                   | ND             | 0.037      | 0.037       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| Trichlorofluoromethane            | 0.403          | 0.150      | 0.150       | 2.26            | 0.84        | 0.84        | 07/09/20  | KCA | 1        |
| Trichlorotrifluoroethane          | ND             | 0.150      | 0.150       | ND              | 1.15        | 1.15        | 07/09/20  | KCA | 1        |
| Vinyl Chloride                    | ND             | 0.020      | 0.020       | ND              | 0.05        | 0.05        | 07/09/20  | KCA | 1        |
| <b>QA/QC Surrogates/Internals</b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene              | 92             | %          | %           | 92              | %           | %           | 07/09/20  | KCA | 1        |
| % IS-1,4-Difluorobenzene          | 92             | %          | %           | 92              | %           | %           | 07/09/20  | KCA | 1        |
| % IS-Bromochloromethane           | 99             | %          | %           | 99              | %           | %           | 07/09/20  | KCA | 1        |

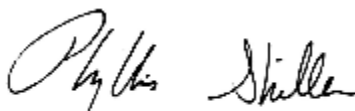
| Parameter             | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By  | Dilution |
|-----------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| % IS-Chlorobenzene-d5 | 97             | %          | %           | 97              | %           | %           | 07/09/20  | KCA | 1        |

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**

**November 17, 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

November 17, 2020

FOR: Attn: Nora Brew  
Walden Environmental Engineering PLLC  
16 Spring Street  
Oyster Bay, NY 11771

## Sample Information

Matrix: AIR  
Location Code: WALDENE-IPARK  
Rush Request: 72 Hour  
P.O.#: 0118.33+.40  
Canister Id: 19426

## Custody Information

Collected by: EJ  
Received by: SW  
Analyzed by: see "By" below

## Date

07/07/20 15:45  
07/08/20 16:37

## Time

## Laboratory Data

SDG ID: GCG29877  
Phoenix ID: CG29882

Project ID: IPARK0118.33  
Client ID: IA-2 (CALL CENTER)

| 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-Trichloroethane             | ND             | 0.200      | 0.200       | ND              | 1.09        | 1.09        | 07/09/20  | KCA | 1        |
| 1,1-Dichloroethene                | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| 1,2,4-Trichlorobenzene            | ND             | 0.250      | 0.250       | ND              | 1.85        | 1.85        | 07/09/20  | KCA | 1        |
| 1,2-Dichlorobenzene               | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| 1,3-Dichlorobenzene               | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| 1,4-Dichlorobenzene               | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/09/20  | KCA | 1        |
| Acetone                           | 8.65           | 1.00       | 1.00        | 20.5            | 2.37        | 2.37        | 07/09/20  | KCA | 1        |
| Benzene                           | 0.080          | 0.050      | 0.050       | 0.26            | 0.16        | 0.16        | 07/09/20  | KCA | 1        |
| Carbon Tetrachloride              | 0.083          | 0.020      | 0.020       | 0.52            | 0.13        | 0.13        | 07/09/20  | KCA | 1        |
| Chlorobenzene                     | ND             | 0.200      | 0.200       | ND              | 0.92        | 0.92        | 07/09/20  | KCA | 1        |
| Cis-1,2-Dichloroethene            | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| Dichlorodifluoromethane           | 0.988          | 0.200      | 0.200       | 4.88            | 0.99        | 0.99        | 07/09/20  | KCA | 1        |
| Ethylbenzene                      | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| m,p-Xylene                        | 0.244          | 0.150      | 0.150       | 1.06            | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| Methylene Chloride                | ND             | 0.400      | 0.400       | ND              | 1.39        | 1.39        | 07/09/20  | KCA | 1        |
| o-Xylene                          | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/09/20  | KCA | 1        |
| Tetrachloroethene                 | 0.174          | 0.100      | 0.100       | 1.18            | 0.68        | 0.68        | 07/09/20  | KCA | 1        |
| Toluene                           | 5.30           | 0.200      | 0.200       | 20.0            | 0.75        | 0.75        | 07/09/20  | KCA | 1        |
| Trichloroethene                   | ND             | 0.037      | 0.037       | ND              | 0.20        | 0.20        | 07/09/20  | KCA | 1        |
| Trichlorofluoromethane            | 8.00           | 0.150      | 0.150       | 44.9            | 0.84        | 0.84        | 07/09/20  | KCA | 1        |
| Trichlorotrifluoroethane          | ND             | 0.150      | 0.150       | ND              | 1.15        | 1.15        | 07/09/20  | KCA | 1        |
| Vinyl Chloride                    | ND             | 0.020      | 0.020       | ND              | 0.05        | 0.05        | 07/09/20  | KCA | 1        |
| <b>QA/QC Surrogates/Internals</b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene              | 94             | %          | %           | 94              | %           | %           | 07/09/20  | KCA | 1        |
| % IS-1,4-Difluorobenzene          | 91             | %          | %           | 91              | %           | %           | 07/09/20  | KCA | 1        |
| % IS-Bromochloromethane           | 98             | %          | %           | 98              | %           | %           | 07/09/20  | KCA | 1        |

Client ID: IA-2 (CALL CENTER)

| 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 |
|-----------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-----|----------|
| % IS-Chlorobenzene-d5 | 99             | %          | %           | 99              | %           | %           | 07/09/20  | KCA | 1        |

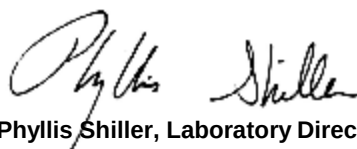
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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:**

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

November 17, 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

November 17, 2020

FOR: Attn: Nora Brew  
Walden Environmental Engineering PLLC  
16 Spring Street  
Oyster Bay, NY 11771

Location Code: WALDENE-IPARK

SDG I.D.: GCG29877

Project ID: IPARK0118.33

| 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 |
| IA-DUP (CALL CENTE | CG29877 | 28581    | 6.0L | 7036    | 06/29/20     | -30        | -6    | 10.8     | 11      | 1.8      | -30      | -6     | 07/07/20 08:45      | 07/07/20 16:18    |
| IA-4 (CALL CENTER) | CG29878 | 23343    | 6.0L | 5353    | 06/29/20     | -30        | -6    | 10.8     | 11.1    | 2.7      | -30      | -6     | 07/07/20 08:55      | 07/07/20 16:19    |
| IA-5 (CALL CENTER) | CG29879 | 28562    | 6.0L | 3504    | 06/29/20     | -30        | -4    | 10.8     | 11.2    | 3.6      | -30      | -6     | 07/07/20 08:56      | 07/07/20 16:21    |
| IA-1 (CALL CENTER) | CG29880 | 28624    | 6.0L | 5398    | 06/29/20     | -30        | -5    | 10.8     | 12.5    | 14.6     | -30      | -5     | 07/07/20 08:59      | 07/07/20 15:41    |
| AA-1 (CALL CENTER) | CG29881 | 28549    | 6.0L | 7023    | 06/29/20     | -30        | -7    | 10.8     | 11      | 1.8      | -29      | -5     | 07/07/20 09:07      | 07/07/20 16:16    |
| IA-2 (CALL CENTER) | CG29882 | 19426    | 6.0L | 6981    | 06/29/20     | -30        | 0     | 10.8     | 12.1    | 11.4     | -30      | -1     | 07/07/20 08:45      | 07/07/20 15:45    |



**Environmental Laboratories, Inc.**  
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# QA/QC Report

November 17, 2020

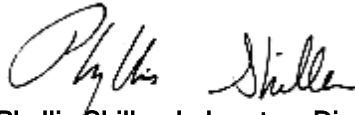
## QA/QC Data

SDG I.D.: GCG29877

| 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 552115 (ppbv), QC Sample No: CG29882 (CG29877, CG29878, CG29879, CG29880, CG29881, CG29882) |             |                   |              |                    |          |           |                           |                        |                          |                       |            |                    |                    |
| <b>Volatiles</b>                                                                                        |             |                   |              |                    |          |           |                           |                        |                          |                       |            |                    |                    |
| 1,1,1-Trichloroethane                                                                                   | ND          | 0.200             | ND           | 1.09               | 108      | 110       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1-Dichloroethene                                                                                      | ND          | 0.050             | ND           | 0.20               | 106      | 107       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2,4-Trichlorobenzene                                                                                  | ND          | 0.250             | ND           | 1.85               | 128      | 129       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-Dichlorobenzene                                                                                     | ND          | 0.150             | ND           | 0.90               | 117      | 117       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,3-Dichlorobenzene                                                                                     | ND          | 0.150             | ND           | 0.90               | 116      | 116       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,4-Dichlorobenzene                                                                                     | ND          | 0.150             | ND           | 0.90               | 118      | 117       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Acetone                                                                                                 | ND          | 1.00              | ND           | 2.37               | 106      | 109       | 20.5                      | 20.4                   | 8.65                     | 8.60                  | 0.6        | 70 - 130           | 25                 |
| Benzene                                                                                                 | ND          | 0.050             | ND           | 0.16               | 114      | 117       | 0.26                      | 0.26                   | 0.080                    | 0.083                 | NC         | 70 - 130           | 25                 |
| Carbon Tetrachloride                                                                                    | ND          | 0.020             | ND           | 0.13               | 110      | 112       | 0.52                      | 0.48                   | 0.083                    | 0.077                 | NC         | 70 - 130           | 25                 |
| Chlorobenzene                                                                                           | ND          | 0.200             | ND           | 0.92               | 103      | 102       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Cis-1,2-Dichloroethene                                                                                  | ND          | 0.050             | ND           | 0.20               | 108      | 118       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Dichlorodifluoromethane                                                                                 | ND          | 0.200             | ND           | 0.99               | 110      | 111       | 4.88                      | 4.94                   | 0.988                    | 1.00                  | NC         | 70 - 130           | 25                 |
| Ethylbenzene                                                                                            | ND          | 0.150             | ND           | 0.65               | 107      | 107       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| m,p-Xylene                                                                                              | ND          | 0.150             | ND           | 0.65               | 105      | 106       | 1.06                      | 1.05                   | 0.244                    | 0.243                 | NC         | 70 - 130           | 25                 |
| Methylene Chloride                                                                                      | ND          | 0.400             | ND           | 1.39               | 100      | 101       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| o-Xylene                                                                                                | ND          | 0.150             | ND           | 0.65               | 104      | 103       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Tetrachloroethene                                                                                       | ND          | 0.100             | ND           | 0.68               | 108      | 109       | 1.18                      | 1.13                   | 0.174                    | 0.167                 | NC         | 70 - 130           | 25                 |
| Toluene                                                                                                 | ND          | 0.200             | ND           | 0.75               | 120      | 120       | 20.0                      | 20.5                   | 5.30                     | 5.45                  | 2.8        | 70 - 130           | 25                 |
| Trichloroethene                                                                                         | ND          | 0.037             | ND           | 0.20               | 106      | 107       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Trichlorofluoromethane                                                                                  | ND          | 0.150             | ND           | 0.84               | 104      | 106       | 44.9                      | 45.6                   | 8.00                     | 8.12                  | 1.5        | 70 - 130           | 25                 |
| Trichlorotrifluoroethane                                                                                | ND          | 0.150             | ND           | 1.15               | 103      | 105       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Vinyl Chloride                                                                                          | ND          | 0.020             | ND           | 0.05               | 109      | 110       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| % Bromofluorobenzene                                                                                    | 92          | %                 | 92           | %                  | 102      | 100       | 94                        | 94                     | 94                       | 94                    | NC         | 70 - 130           | 25                 |
| % IS-1,4-Difluorobenzene                                                                                | 93          | %                 | 93           | %                  | 107      | 107       | 91                        | 90                     | 91                       | 90                    | NC         | 60 - 140           | 25                 |
| % IS-Bromochloromethane                                                                                 | 100         | %                 | 100          | %                  | 102      | 101       | 98                        | 98                     | 98                       | 98                    | NC         | 60 - 140           | 25                 |
| % IS-Chlorobenzene-d5                                                                                   | 95          | %                 | 95           | %                  | 114      | 114       | 99                        | 97                     | 99                       | 97                    | NC         | 60 - 140           | 25                 |

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  
November 17, 2020

## Sample Criteria Exceedances Report

## GCG29877 - WALDENE-IPARK

| SampNo  | Acode        | Phoenix Analyte      | Criteria                              | Result | RL    | Criteria | RL<br>Criteria | Analysis<br>Units |
|---------|--------------|----------------------|---------------------------------------|--------|-------|----------|----------------|-------------------|
| CG29877 | \$AIR_WALDEN | Carbon Tetrachloride | NY / Air Guideline Values / Indor Air | 0.076  | 0.020 | 0.032    | 0.032          | ppbv              |
| CG29877 | \$AIR_WALDEN | Carbon Tetrachloride | NY / Air Guideline Values / Indor Air | 0.48   | 0.13  | 0.2      | 0.2            | ug/m3             |
| CG29878 | \$AIR_WALDEN | Carbon Tetrachloride | NY / Air Guideline Values / Indor Air | 0.073  | 0.020 | 0.032    | 0.032          | ppbv              |
| CG29878 | \$AIR_WALDEN | Carbon Tetrachloride | NY / Air Guideline Values / Indor Air | 0.46   | 0.13  | 0.2      | 0.2            | ug/m3             |
| CG29879 | \$AIR_WALDEN | Carbon Tetrachloride | NY / Air Guideline Values / Indor Air | 0.081  | 0.020 | 0.032    | 0.032          | ppbv              |
| CG29879 | \$AIR_WALDEN | Carbon Tetrachloride | NY / Air Guideline Values / Indor Air | 0.51   | 0.13  | 0.2      | 0.2            | ug/m3             |
| CG29880 | \$AIR_WALDEN | Carbon Tetrachloride | NY / Air Guideline Values / Indor Air | 0.075  | 0.020 | 0.032    | 0.032          | ppbv              |
| CG29880 | \$AIR_WALDEN | Carbon Tetrachloride | NY / Air Guideline Values / Indor Air | 0.47   | 0.13  | 0.2      | 0.2            | ug/m3             |
| CG29881 | \$AIR_WALDEN | Carbon Tetrachloride | NY / Air Guideline Values / Indor Air | 0.081  | 0.020 | 0.032    | 0.032          | ppbv              |
| CG29881 | \$AIR_WALDEN | Carbon Tetrachloride | NY / Air Guideline Values / Indor Air | 0.51   | 0.13  | 0.2      | 0.2            | ug/m3             |
| CG29882 | \$AIR_WALDEN | Carbon Tetrachloride | NY / Air Guideline Values / Indor Air | 0.083  | 0.020 | 0.032    | 0.032          | ppbv              |
| CG29882 | \$AIR_WALDEN | Carbon Tetrachloride | NY / Air Guideline Values / Indor Air | 0.52   | 0.13  | 0.2      | 0.2            | ug/m3             |

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.





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

## Individual Canister Certification

November 17, 2020

### Sample Information

Matrix: AIR  
Canister Id: 28581  
Certification Date: 05/11/20 11:20 AM  
Data File: H:\AIR2020\CHEM20\05MAY\10\0510\_25.D\0510\_25-20\_AIR\_0510.rr  
Project ID: IPARK0118.33  
Client ID: IA-DUP (CALL CENTER)

SDG ID: GCG29877  
Phoenix ID: CG29877

| Analyte                  | Result (ppbv) | Analyte                 | Result (ppbv) |
|--------------------------|---------------|-------------------------|---------------|
| 1,1,1-Trichloroethane    | <0.20         | 1,1-Dichloroethene      | <0.05         |
| 1,2,4-Trichlorobenzene   | <0.25         | 1,2-Dichlorobenzene     | <0.15         |
| 1,3-Dichlorobenzene      | <0.15         | 1,4-Dichlorobenzene     | <0.15         |
| Acetone                  | <1.0          | Benzene                 | <0.050        |
| Carbon Tetrachloride     | <0.02         | Chlorobenzene           | <0.20         |
| Cis-1,2-Dichloroethene   | <0.05         | Dichlorodifluoromethane | <0.20         |
| Ethylbenzene             | <0.15         | m,p-Xylene              | <0.15         |
| Methylene Chloride       | <0.40         | o-Xylene                | <0.15         |
| Tetrachloroethene        | <0.10         | Toluene                 | <0.20         |
| Trichloroethene          | <0.037        | Trichlorofluoromethane  | <0.15         |
| Trichlorotrifluoroethane | <0.15         | Vinyl Chloride          | <0.02         |



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

## Individual Canister Certification

November 17, 2020

### Sample Information

Matrix: AIR  
Canister Id: 23343  
Certification Date: 06/24/20 9:59 PM  
Data File: H:\AIR2020\CHEM20\06JUN\24\0624\_17.D\0624\_17-20\_AIR\_0615.rr  
Project ID: IPARK0118.33  
Client ID: IA-4 (CALL CENTER)

SDG ID: GCG29877  
Phoenix ID: CG29878

| Analyte                  | Result (ppbv) | Analyte                 | Result (ppbv) |
|--------------------------|---------------|-------------------------|---------------|
| 1,1,1-Trichloroethane    | <0.20         | 1,1-Dichloroethene      | <0.05         |
| 1,2,4-Trichlorobenzene   | <0.25         | 1,2-Dichlorobenzene     | <0.15         |
| 1,3-Dichlorobenzene      | <0.15         | 1,4-Dichlorobenzene     | <0.15         |
| Acetone                  | <1.0          | Benzene                 | <0.050        |
| Carbon Tetrachloride     | <0.02         | Chlorobenzene           | <0.20         |
| Cis-1,2-Dichloroethene   | <0.05         | Dichlorodifluoromethane | <0.20         |
| Ethylbenzene             | <0.15         | m,p-Xylene              | <0.15         |
| Methylene Chloride       | <0.40         | o-Xylene                | <0.15         |
| Tetrachloroethene        | <0.10         | Toluene                 | <0.20         |
| Trichloroethene          | <0.037        | Trichlorofluoromethane  | <0.15         |
| Trichlorotrifluoroethane | <0.15         | Vinyl Chloride          | <0.02         |



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

## Individual Canister Certification

November 17, 2020

### Sample Information

Matrix: AIR  
Canister Id: 28562  
Certification Date: 05/18/20 5:14 PM  
Data File: H:\AIR2020\CHEM20\05MAY\18\0518\_08.D\0518\_08-20\_AIR\_0510.rr  
Project ID: IPARK0118.33  
Client ID: IA-5 (CALL CENTER)

SDG ID: GCG29877  
Phoenix ID: CG29879

| Analyte                  | Result (ppbv) | Analyte                 | Result (ppbv) |
|--------------------------|---------------|-------------------------|---------------|
| 1,1,1-Trichloroethane    | <0.20         | 1,1-Dichloroethene      | <0.05         |
| 1,2,4-Trichlorobenzene   | <0.25         | 1,2-Dichlorobenzene     | <0.15         |
| 1,3-Dichlorobenzene      | <0.15         | 1,4-Dichlorobenzene     | <0.15         |
| Acetone                  | <1.0          | Benzene                 | <0.050        |
| Carbon Tetrachloride     | <0.02         | Chlorobenzene           | <0.20         |
| Cis-1,2-Dichloroethene   | <0.05         | Dichlorodifluoromethane | <0.20         |
| Ethylbenzene             | <0.15         | m,p-Xylene              | <0.15         |
| Methylene Chloride       | <0.40         | o-Xylene                | <0.15         |
| Tetrachloroethene        | <0.10         | Toluene                 | <0.20         |
| Trichloroethene          | <0.037        | Trichlorofluoromethane  | <0.15         |
| Trichlorotrifluoroethane | <0.15         | Vinyl Chloride          | <0.02         |



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

## Individual Canister Certification

November 17, 2020

### Sample Information

Matrix: AIR  
Canister Id: 28624  
Certification Date: 06/24/20 11:16 PM  
Data File: H:\AIR2020\CHEM20\06JUN\24\0624\_19.D\0624\_19-20\_AIR\_0615.rr  
Project ID: IPARK0118.33  
Client ID: IA-1 (CALL CENTER)

SDG ID: GCG29877  
Phoenix ID: CG29880

| Analyte                  | Result (ppbv) | Analyte                 | Result (ppbv) |
|--------------------------|---------------|-------------------------|---------------|
| 1,1,1-Trichloroethane    | <0.20         | 1,1-Dichloroethene      | <0.05         |
| 1,2,4-Trichlorobenzene   | <0.25         | 1,2-Dichlorobenzene     | <0.15         |
| 1,3-Dichlorobenzene      | <0.15         | 1,4-Dichlorobenzene     | <0.15         |
| Acetone                  | <1.0          | Benzene                 | <0.050        |
| Carbon Tetrachloride     | <0.02         | Chlorobenzene           | <0.20         |
| Cis-1,2-Dichloroethene   | <0.05         | Dichlorodifluoromethane | <0.20         |
| Ethylbenzene             | <0.15         | m,p-Xylene              | <0.15         |
| Methylene Chloride       | <0.40         | o-Xylene                | <0.15         |
| Tetrachloroethene        | <0.10         | Toluene                 | <0.20         |
| Trichloroethene          | <0.037        | Trichlorofluoromethane  | <0.15         |
| Trichlorotrifluoroethane | <0.15         | Vinyl Chloride          | <0.02         |



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

## Individual Canister Certification

November 17, 2020

### Sample Information

Matrix: AIR

Canister Id: 28549

Certification Date: 06/24/20 4:08 PM

Data File: H:\AIR2020\CHEM20\06JUN\24\0624\_08.D\0624\_08-20\_AIR\_0615.rr

Project ID: IPARK0118.33

Client ID: AA-1 (CALL CENTER)

SDG ID: GCG29877

Phoenix ID: CG29881

| Analyte                  | Result (ppbv) | Analyte                 | Result (ppbv) |
|--------------------------|---------------|-------------------------|---------------|
| 1,1,1-Trichloroethane    | <0.20         | 1,1-Dichloroethene      | <0.05         |
| 1,2,4-Trichlorobenzene   | <0.25         | 1,2-Dichlorobenzene     | <0.15         |
| 1,3-Dichlorobenzene      | <0.15         | 1,4-Dichlorobenzene     | <0.15         |
| Acetone                  | <1.0          | Benzene                 | <0.050        |
| Carbon Tetrachloride     | <0.02         | Chlorobenzene           | <0.20         |
| Cis-1,2-Dichloroethene   | <0.05         | Dichlorodifluoromethane | <0.20         |
| Ethylbenzene             | <0.15         | m,p-Xylene              | <0.15         |
| Methylene Chloride       | <0.40         | o-Xylene                | <0.15         |
| Tetrachloroethene        | <0.10         | Toluene                 | <0.20         |
| Trichloroethene          | <0.037        | Trichlorofluoromethane  | <0.15         |
| Trichlorotrifluoroethane | <0.15         | Vinyl Chloride          | <0.02         |



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

## Individual Canister Certification

November 17, 2020

### Sample Information

Matrix: AIR  
Canister Id: 19426  
Certification Date: 06/24/20 2:50 PM  
Data File: H:\AIR2020\CHEM20\06JUN\24\0624\_06.D\0624\_06-20\_AIR\_0615.rr  
Project ID: IPARK0118.33  
Client ID: IA-2 (CALL CENTER)

SDG ID: GCG29877  
Phoenix ID: CG29882

| Analyte                  | Result (ppbv) | Analyte                 | Result (ppbv) |
|--------------------------|---------------|-------------------------|---------------|
| 1,1,1-Trichloroethane    | <0.20         | 1,1-Dichloroethene      | <0.05         |
| 1,2,4-Trichlorobenzene   | <0.25         | 1,2-Dichlorobenzene     | <0.15         |
| 1,3-Dichlorobenzene      | <0.15         | 1,4-Dichlorobenzene     | <0.15         |
| Acetone                  | <1.0          | Benzene                 | <0.050        |
| Carbon Tetrachloride     | <0.02         | Chlorobenzene           | <0.20         |
| Cis-1,2-Dichloroethene   | <0.05         | Dichlorodifluoromethane | <0.20         |
| Ethylbenzene             | <0.15         | m,p-Xylene              | <0.15         |
| Methylene Chloride       | <0.40         | o-Xylene                | <0.15         |
| Tetrachloroethene        | <0.10         | Toluene                 | <0.20         |
| Trichloroethene          | <0.037        | Trichlorofluoromethane  | <0.15         |
| Trichlorotrifluoroethane | <0.15         | Vinyl Chloride          | <0.02         |



VIX  
Laboratories, Inc.

P.O. Box 370, Wallingford, CT 06490  
45-1102 - Fax 860-645-0823

# CHAIN OF CUSTODY RECORD

## AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. # : 2420118-331-40 Page 1 of 2

Data Delivery:

☐ Fax #:

☒ Email:

☒ Phone #:

Phoenix Environmental Laboratories, Inc. (com)  
616-624-7200

|               |                                    |
|---------------|------------------------------------|
| Project Name: | Wright (HES)                       |
| Invoice to:   | Nora Brown, PE                     |
| Address:      | 16 Spring St, Oyster Bay, NY 11771 |
| Sampled by:   | Eric Johnson                       |
| Quote Number: |                                    |

| Phoenix ID # | Client Sample ID     | THIS SECTION FOR LAB USE ONLY |                   |                                  |                                  |                     |                                  |                     |                   |                   |                                  | Matrix                         | Grab (G) Composite (C) | TO-15 | ANALYSES |
|--------------|----------------------|-------------------------------|-------------------|----------------------------------|----------------------------------|---------------------|----------------------------------|---------------------|-------------------|-------------------|----------------------------------|--------------------------------|------------------------|-------|----------|
|              |                      | Canister ID #                 | Canister Size (L) | Outgoing Canister Pressure ("Hg) | Incoming Canister Pressure ("Hg) | Flow Regulator ID # | Flow Controller Setting (mL/min) | Sampling Start Time | Sampling End Time | Sample Start Date | Canister Pressure at Start ("Hg) | Canister Pressure at End ("Hg) |                        |       |          |
| 29877        | IA-Dup (Call center) | 28581                         | 60                | -30                              | -6                               | 7036                | 10-8                             | 8:45                | 16:18             | 7/12              | -30                              | -10                            | X                      | G     | X        |
|              | IA-4 (HES)           | 495                           |                   |                                  |                                  | 6887                |                                  | 8:28                | 10:12             | 7/12              | -30                              | -5                             | X                      | G     | X        |
|              | IA-3 (HES)           | 23350                         |                   |                                  |                                  | 5389                |                                  | 8:27                | 16:10             | 7/12              | -30                              | -2                             | X                      | G     | X        |
| 29878        | IA-4 (Call center)   | 28610                         |                   |                                  | -6                               | 6944                |                                  | 8:55                | 16:19             | 7/12              | -30                              | -6                             | X                      | G     | X        |
|              |                      | 23343                         |                   |                                  |                                  | 5323                |                                  |                     |                   |                   |                                  |                                |                        |       |          |
|              |                      | 475                           |                   |                                  |                                  | 5600                |                                  |                     |                   |                   |                                  |                                |                        |       |          |
|              |                      | 19886                         |                   |                                  |                                  | 6912                |                                  |                     |                   |                   |                                  |                                |                        |       |          |
| 29879        | IA-5 (Call center)   | 28542                         |                   |                                  | -4                               | 3604                |                                  | 8:56                | 16:21             | 7/12              | -30                              | -6                             | X                      | G     | X        |
|              | IA-2 (HES)           | 12864                         |                   |                                  |                                  | 5673                |                                  | 8:23                | 16:08             | 7/12              | -30                              | -5                             | X                      | G     | X        |
|              |                      | 28577                         |                   |                                  |                                  | 6944                |                                  |                     |                   |                   |                                  |                                |                        |       |          |

|                                                                                                                                                                                 |                                                                                                                                                                                                                                   |                                                                                                                                                                                                    |                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Relinquished by:                                                                                                                                                                | Accepted by:                                                                                                                                                                                                                      | Date:                                                                                                                                                                                              | Time:                                                                                                                                                                                     |
| <i>[Signature]</i>                                                                                                                                                              | <i>[Signature]</i>                                                                                                                                                                                                                | 7-8-20                                                                                                                                                                                             | 11:05                                                                                                                                                                                     |
| State Where Samples Collected:                                                                                                                                                  | Requested Criteria:                                                                                                                                                                                                               | MA:                                                                                                                                                                                                | NI:                                                                                                                                                                                       |
| NY                                                                                                                                                                              | <input type="checkbox"/> TAC I/C<br><input type="checkbox"/> TAC RES<br><input checked="" type="checkbox"/> SVWC I/C<br><input type="checkbox"/> SVWC RES<br><input type="checkbox"/> GWV I/C<br><input type="checkbox"/> GWV RES | <input type="checkbox"/> Indoor Air Residential<br><input type="checkbox"/> Indoor Air Commercial<br><input type="checkbox"/> Soil Gas Residential<br><input type="checkbox"/> Soil Gas Commercial | <input type="checkbox"/> Indoor Air Residential<br><input type="checkbox"/> Indoor Air Commercial<br><input type="checkbox"/> Vapor Intrusion<br><input type="checkbox"/> Non-Residential |
| SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:                                                                                                                  |                                                                                                                                                                                                                                   | Date: 7/12/20                                                                                                                                                                                      |                                                                                                                                                                                           |
| TO-15 "Spec" canister not needed (10/6/2011)<br>See Bobbi/G reg. Modified TO-15<br>analysis per project QAPP provided<br>please separate "Call center" HES samples in 2 reports |                                                                                                                                                                                                                                   |                                                                                                                                                                                                    |                                                                                                                                                                                           |

90929877

**Kayla Tomkiel**

---

**From:** Michael Lapman  
**Sent:** Wednesday, July 8, 2020 7:11 PM  
**To:** Kayla Tomkiel  
**Subject:** Re: Walden air canisters

You're welcome, have a good night!

Regards,  
Michael Lapman  
Phoenix Environmental Laboratories, Inc.  
587 East Middle Turnpike  
Manchester, CT 06040  
Direct Line: 917.449.0850  
Laboratory: 860.812.0086  
[www.phoenixlabs.com](http://www.phoenixlabs.com)



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**From:** Kayla Tomkiel <[KaylaT@phoenixlabs.com](mailto:KaylaT@phoenixlabs.com)>  
**Date:** Wednesday, July 8, 2020 at 7:10 PM  
**To:** Michael Lapman <[michael@phoenixlabs.com](mailto:michael@phoenixlabs.com)>  
**Subject:** RE: Walden air canisters

Thank You!

**From:** Michael Lapman  
**Sent:** Wednesday, July 8, 2020 7:10 PM  
**To:** Kayla Tomkiel  
**Subject:** Re: Walden air canisters

We are picking it up Friday.

Regards,  
Michael Lapman  
Phoenix Environmental Laboratories, Inc.  
587 East Middle Turnpike  
Manchester, CT 06040  
Direct Line: 917.449.0850  
Laboratory: 860.812.0086  
[www.phoenixlabs.com](http://www.phoenixlabs.com)





gcg 29877

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**From:** Kayla Tomkiel <[KaylaT@phoenixlabs.com](mailto:KaylaT@phoenixlabs.com)>  
**Date:** Wednesday, July 8, 2020 at 7:09 PM  
**To:** Michael Lapman <[michael@phoenixlabs.com](mailto:michael@phoenixlabs.com)>  
**Subject:** RE: Walden air canisters

We still will need the unused canister back as it was logged out with all of the other on the chains.

Should I schedule a pick up? Would just need to know the address and time

**From:** Michael Lapman  
**Sent:** Wednesday, July 8, 2020 7:08 PM  
**To:** Kayla Tomkiel  
**Subject:** Re: Walden air canisters

That one was cancelled. Thank you!

Regards,  
Michael Lapman  
Phoenix Environmental Laboratories, Inc.  
587 East Middle Turnpike  
Manchester, CT 06040  
Direct Line: 917.449.0850  
Laboratory: 860.812.0086  
[www.phoenixlabs.com](http://www.phoenixlabs.com)



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**From:** Kayla Tomkiel <[KaylaT@phoenixlabs.com](mailto:KaylaT@phoenixlabs.com)>  
**Date:** Wednesday, July 8, 2020 at 7:06 PM  
**To:** Michael Lapman <[michael@phoenixlabs.com](mailto:michael@phoenixlabs.com)>  
**Subject:** Walden air canisters

Hi Michael,

Our courier picked up air canisters from Walden today, but it seems we are missing one.

gCg 29877

The can ID is 28570 REG # 7046 CLIENT ID: IA-3 (CALL CENTER)

Could you please let me know about this as soon as possible

Thanks!

*Kayla Tomkiel*

Phoenix Environmental Laboratories  
587 East Middle Tpke.  
Manchester, CT 06040  
PH: 860-645-1102  
FX: 860-645-0823

gcg 29877

**Shannon Wilhelm**

**Subject:** FW: Walden COC  
**Attachments:** 20200708115817.pdf

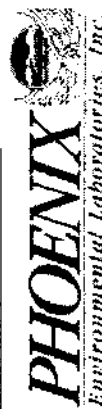
**From:** Michael Lapman  
**Sent:** Wednesday, July 08, 2020 1:04 PM  
**To:** Shannon Wilhelm  
**Subject:** FW: Walden COC

Please cancel line item IA3 (Call Center) on the second COC. They also noted they want separate reports for "Call Centers" and "HES".

3-Day Rush TAT, they have a special reporting list as well.

Thank you.

Regards,  
Michael Lapman  
Phoenix Environmental Laboratories, Inc.  
587 East Middle Turnpike  
Manchester, CT 06040  
Direct Line: 917.449.0850  
Laboratory: 860.812.0086  
[www.phoenixlabs.com](http://www.phoenixlabs.com)



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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: Walden Environmental Engineering PLLC

IPARK0118.33

Laboratory Project: GCG29877

Volatile TO15  
Ver 2

## 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. Samples that require dilution may result in elevated reporting limits that exceed requested criteria for one or more analytes.

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: GCG29877

## **Volatile Air Conformance / Non-Conformance Summary**

Project ID / Client ID: IPARK0118.33, Walden Environmental Engineering PLLC

---

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: CG29882 LCS  
All LCS recoveries met criteria with the following exceptions: None.

Sample: CG29882 LCS  
All LCS recoveries met criteria with the following exceptions: None.

Form 4 (Method Blank):

-----  
File: CHEM20 0708\_23.D  
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

-----  
File: CHEM20 0708\_06.D  
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

-----  
Calibration: CHEM20 07/08/20 - 07/08/20  
100% of method compounds met criteria.  
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM20 07/08/20 - 07/08/20  
100% of method compounds met criteria.  
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

-----  
File: CHEM20 0708\_18.D (Opening)  
98% of method compounds met criteria.  
The following compounds did not meet maximum % deviations: Ethylbenzene 35.0% (20), m,p-Xylene 41.2% (20), o-Xylene 30.0% (20)

Samples were analyzed within twelve hours of ICAL, injection of the last ICAL standard was used as the starting time reference for evaluation per method.  
No Opening CCAL is provided.



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



SDG: GCG29877

## **Volatile Air Conformance / Non-Conformance Summary**

Project ID / Client ID: IPARK0118.33, Walden Environmental Engineering PLLC

---

Form 8 (Internal Standard and Retention Time):

File: CHEM20 - 20\_AIR\_0708\_wal.M / 0708\_18.D Full

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

File: CHEM20 - 20\_AIR\_0708\_wal.M / 0708\_18.D Sim

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

File: CHEM20 - 20\_AIR\_0708\_wal.M / Average Full

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

File: CHEM20 - 20\_AIR\_0708\_wal.M / Average Sim

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

11/04/20

Alejandro Paredes

Project Manager



Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.:            SDG: GCG29877

QC Batch Id: 552115 QC Sample Id: CG29882

|    | CLIENT<br>ID           | LAB<br>ID     | SMC1<br>BFB # |  |  |  | TOT<br>OUT |
|----|------------------------|---------------|---------------|--|--|--|------------|
| 01 | CG29882 LCS            | CG29882 LCS   | 102           |  |  |  | 0          |
| 02 | CG29882 LCSD           | CG29882 LCSD  | 100           |  |  |  | 0          |
| 03 | CG29882 BLANK          | CG29882 BLANK | 92            |  |  |  | 0          |
| 04 | IA-DUP (CALL CENTER)   | CG29877       | 95            |  |  |  | 0          |
| 05 | IA-4 (CALL CENTER)     | CG29878       | 97            |  |  |  | 0          |
| 06 | IA-5 (CALL CENTER)     | CG29879       | 95            |  |  |  | 0          |
| 07 | IA-1 (CALL CENTER)     | CG29880       | 95            |  |  |  | 0          |
| 08 | AA-1 (CALL CENTER)     | CG29881       | 92            |  |  |  | 0          |
| 09 | IA-2 (CALL CENTER)     | CG29882       | 94            |  |  |  | 0          |
| 10 | IA-2 (CALL CENTER) DUP | CG29882 DUP   | 94            |  |  |  | 0          |
| 11 |                        |               |               |  |  |  |            |
| 12 |                        |               |               |  |  |  |            |
| 13 |                        |               |               |  |  |  |            |
| 14 |                        |               |               |  |  |  |            |
| 15 |                        |               |               |  |  |  |            |
| 16 |                        |               |               |  |  |  |            |
| 17 |                        |               |               |  |  |  |            |
| 18 |                        |               |               |  |  |  |            |
| 19 |                        |               |               |  |  |  |            |
| 20 |                        |               |               |  |  |  |            |
| 21 |                        |               |               |  |  |  |            |
| 22 |                        |               |               |  |  |  |            |
| 23 |                        |               |               |  |  |  |            |
| 24 |                        |               |               |  |  |  |            |
| 25 |                        |               |               |  |  |  |            |
| 26 |                        |               |               |  |  |  |            |
| 27 |                        |               |               |  |  |  |            |
| 28 |                        |               |               |  |  |  |            |
| 29 |                        |               |               |  |  |  |            |
| 30 |                        |               |               |  |  |  |            |

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

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

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LCS - Client Id: CG29882 LCSD

[illegible]

4A  
AIR METHOD BLANK SUMMARY

Client ID

CG29882 BLANK

Lab Name: Phoenix Environmental Labs

Client: WALDENE-IPARK

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

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

SDG No.: GCG29877

Lab File ID: 0708\_23.D

Lab Sample ID: CG29882 BLK

Date Analyzed: 07/09/2020

Time Analyzed: 00:03

GC Column: RTX-1 60M

Lab Batch ID: 552115

Instrument ID: CHEM20

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 | CG29882 LCS            | CG29882 LCS      | 0708_20.D      | 22:16            |
| 02 | CG29882 LCSD           | CG29882 LCS      | 0708_21.D      | 22:54            |
| 03 | IA-DUP (CALL CENTER)   | CG29877          | 0708_24.D      | 00:44            |
| 04 | IA-4 (CALL CENTER)     | CG29878          | 0708_25.D      | 01:24            |
| 05 | IA-5 (CALL CENTER)     | CG29879          | 0708_26.D      | 02:04            |
| 06 | IA-1 (CALL CENTER)     | CG29880          | 0708_27.D      | 02:44            |
| 07 | AA-1 (CALL CENTER)     | CG29881          | 0708_28.D      | 03:25            |
| 08 | IA-2 (CALL CENTER)     | CG29882          | 0708_29.D      | 04:04            |
| 09 | IA-2 (CALL CENTER) DUP | CG29882 DUP      | 0708_30.D      | 04:44            |
| 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: WALDENE-IPARK

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

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

SDG No.: GCG29877

Lab File ID: 0708\_06.D

BFB Injection Date: 07/08/20

Instrument ID: CHEM20

BFB Injection Time: 13:40

GC Column: RTX-1 60M

Heated Purge: (Y/N) Y

AutoFind: Scans 806, 807, 808; Background Corrected with Scan 801

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 8.0 - 40.0% of mass 95             | 18.9                 |
| 75  | 30.0 - 66.0% of mass 95            | 53.6                 |
| 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         | 0.6 ( 0.9 )1         |
| 174 | 50.0 - 120.0% of mass 95           | 69.9                 |
| 175 | 4.0 - 9.0% of mass 174             | 7.2 ( 5.0 )1         |
| 176 | 93.0 - 101.0% of mass 174          | 95.3 ( 66.6 )1       |
| 177 | 5.0 - 9.0% of mass 176             | 6.5 ( 4.3 )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 | ICAL 0.02              | 0.02          | 0708_07.D   | 07/08/20      | 14:16         |  |
| 02 | ICAL 0.035             | 0.035         | 0708_08.D   | 07/08/20      | 14:52         |  |
| 03 | ICAL 0.05              | 0.05          | 0708_09.D   | 07/08/20      | 15:28         |  |
| 04 | ICAL 0.1               | 0.10          | 0708_10.D   | 07/08/20      | 16:04         |  |
| 05 | ICAL 0.2               | 0.2           | 0708_11.D   | 07/08/20      | 16:41         |  |
| 06 | ICAL 0.5               | 0.50          | 0708_12.D   | 07/08/20      | 17:19         |  |
| 07 | ICAL 2.5               | 2.5           | 0708_13.D   | 07/08/20      | 17:57         |  |
| 08 | ICAL 5                 | 5.0           | 0708_14.D   | 07/08/20      | 18:33         |  |
| 09 | ICAL 25                | 25            | 0708_15.D   | 07/08/20      | 19:11         |  |
| 10 | ICAL 40                | 40            | 0708_16.D   | 07/08/20      | 19:51         |  |
| 11 | ICAL 1                 | 1             | 0708_18.D   | 07/08/20      | 21:02         |  |
| 12 | ICAL 10                | 10            | 0708_19.D   | 07/08/20      | 21:38         |  |
| 13 | CG29882 LCS            | CG29882 LCS   | 0708_20.D   | 07/08/20      | 22:16         |  |
| 14 | CG29882 LCSD           | CG29882 LCSD  | 0708_21.D   | 07/08/20      | 22:54         |  |
| 15 | CG29882 BLANK          | CG29882 BLANK | 0708_23.D   | 07/09/20      | 00:03         |  |
| 16 | IA-DUP (CALL CENTER)   | CG29877       | 0708_24.D   | 07/09/20      | 00:44         |  |
| 17 | IA-4 (CALL CENTER)     | CG29878       | 0708_25.D   | 07/09/20      | 01:24         |  |
| 18 | IA-5 (CALL CENTER)     | CG29879       | 0708_26.D   | 07/09/20      | 02:04         |  |
| 19 | IA-1 (CALL CENTER)     | CG29880       | 0708_27.D   | 07/09/20      | 02:44         |  |
| 20 | AA-1 (CALL CENTER)     | CG29881       | 0708_28.D   | 07/09/20      | 03:25         |  |
| 21 | IA-2 (CALL CENTER)     | CG29882       | 0708_29.D   | 07/09/20      | 04:04         |  |
| 22 | IA-2 (CALL CENTER) DUP | CG29882 DUP   | 0708_30.D   | 07/09/20      | 04:44         |  |
| 23 |                        |               |             |               |               |  |
| 24 |                        |               |             |               |               |  |
| 25 |                        |               |             |               |               |  |

(\*) Outside 24 hr clock

FORM V AIR

**CLPBFB**

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_06.D  
 Acq On : 8 Jul 2020 1:40 pm  
 Operator :  
 Sample : 0/0  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

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

Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:37:03 2020

AutoFind: Scans 806, 807, 808; Background Corrected with Scan 801

| 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              | 18.9         | 79629      | PASS                |
| 75             | 95              | 30              | 66              | 53.6         | 225472     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 420517     | PASS                |
| 96             | 95              | 5               | 9               | 6.7          | 28022      | PASS                |
| 173            | 174             | 0.00            | 2               | 0.9          | 2686       | PASS                |
| 174            | 95              | 50              | 120             | 69.9         | 293851     | PASS                |
| 175            | 174             | 4               | 9               | 7.2          | 21146      | PASS                |
| 176            | 174             | 93              | 101             | 95.3         | 280043     | PASS                |
| 177            | 176             | 5               | 9               | 6.5          | 18267      | PASS                |

20\_AIR\_0708.M Fri Jul 10 08:26:10 2020

8A  
AIR INTERNAL STANDARD AREA AND RT SUMMARY  
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK  
 Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCG29877  
 Lab Method / File Id: 20\_AIR\_0708\_wal.M / 0708\_18.D Date Analyzed: 07/08/20  
 Instrument ID: CHEM20 Time Analyzed: 21:02  
 GC Column: RTX-1 60M 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               | 320265              | 6.76 | 1252324             | 7.97 | 696930              | 10.51 |  |  | 0708_18.D      |
| UPPER LIMIT               | 449972              | 7.09 | 1759515             | 8.30 | 979187              | 10.84 |  |  | 0708_18.D      |
| LOWER LIMIT               | 190558              | 6.43 | 745133              | 7.64 | 414673              | 10.18 |  |  | 0708_18.D      |
|                           |                     |      |                     |      |                     |       |  |  |                |
| CLIENT ID                 |                     |      |                     |      |                     |       |  |  |                |
| 01 ICAL 1                 | 320265              | 6.76 | 1252324             | 7.97 | 696930              | 10.51 |  |  | 0708_18.D      |
| 02 CG29882 LCS            | 327065              | 6.77 | 1337116             | 7.97 | 793174              | 10.51 |  |  | 0708_20.D      |
| 03 CG29882 LCSD           | 323684              | 6.76 | 1339925             | 7.97 | 792644              | 10.51 |  |  | 0708_21.D      |
| 04 CG29882 BLANK          | 320188              | 6.75 | 1168285             | 7.96 | 664144              | 10.51 |  |  | 0708_23.D      |
| 05 IA-DUP (CALL CENTER)   | 309783              | 6.75 | 1121922             | 7.97 | 681138              | 10.51 |  |  | 0708_24.D      |
| 06 IA-4 (CALL CENTER)     | 319805              | 6.76 | 1161709             | 7.97 | 692776              | 10.51 |  |  | 0708_25.D      |
| 07 IA-5 (CALL CENTER)     | 317976              | 6.76 | 1150294             | 7.97 | 689266              | 10.51 |  |  | 0708_26.D      |
| 08 IA-1 (CALL CENTER)     | 312504              | 6.75 | 1139858             | 7.96 | 684807              | 10.51 |  |  | 0708_27.D      |
| 09 AA-1 (CALL CENTER)     | 317975              | 6.74 | 1149823             | 7.96 | 672539              | 10.50 |  |  | 0708_28.D      |
| 10 IA-2 (CALL CENTER)     | 313063              | 6.75 | 1142973             | 7.97 | 689370              | 10.51 |  |  | 0708_29.D      |
| 11 IA-2 (CALL CENTER) DUP | 313522              | 6.76 | 1122484             | 7.97 | 679189              | 10.51 |  |  | 0708_30.D      |
| 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: WALDENE-IPARK  
 Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCG29877  
 Lab Method / File Id: 20\_AIR\_0708\_wal.M / 0708\_18.D Date Analyzed: 07/08/20  
 Instrument ID: CHEM20 Time Analyzed: 21:02  
 GC Column: RTX-1 60M 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               | 363595              | 6.77 | 1252324             | 7.97 | 696930              | 10.51 |  |  | 0708_18.D      |
| UPPER LIMIT               | 510851              | 7.10 | 1759515             | 8.30 | 979187              | 10.84 |  |  | 0708_18.D      |
| LOWER LIMIT               | 216339              | 6.44 | 745133              | 7.64 | 414673              | 10.18 |  |  | 0708_18.D      |
|                           |                     |      |                     |      |                     |       |  |  |                |
| CLIENT ID                 |                     |      |                     |      |                     |       |  |  |                |
| 01 ICAL 1                 | 363595              | 6.77 | 1252324             | 7.97 | 696930              | 10.51 |  |  | 0708_18.D      |
| 02 CG29882 LCS            | 372104              | 6.77 | 1337116             | 7.97 | 793174              | 10.51 |  |  | 0708_20.D      |
| 03 CG29882 LCSD           | 368160              | 6.77 | 1339925             | 7.97 | 791488              | 10.51 |  |  | 0708_21.D      |
| 04 CG29882 BLANK          | 362910              | 6.76 | 1168285             | 7.96 | 664144              | 10.51 |  |  | 0708_23.D      |
| 05 IA-DUP (CALL CENTER)   | 343202              | 6.76 | 1121835             | 7.97 | 681138              | 10.51 |  |  | 0708_24.D      |
| 06 IA-4 (CALL CENTER)     | 360336              | 6.76 | 1161033             | 7.97 | 692776              | 10.51 |  |  | 0708_25.D      |
| 07 IA-5 (CALL CENTER)     | 354993              | 6.76 | 1149876             | 7.97 | 689266              | 10.51 |  |  | 0708_26.D      |
| 08 IA-1 (CALL CENTER)     | 354945              | 6.76 | 1139610             | 7.96 | 684807              | 10.51 |  |  | 0708_27.D      |
| 09 AA-1 (CALL CENTER)     | 346823              | 6.75 | 1149210             | 7.96 | 672539              | 10.50 |  |  | 0708_28.D      |
| 10 IA-2 (CALL CENTER)     | 353584              | 6.76 | 1142973             | 7.97 | 689370              | 10.51 |  |  | 0708_29.D      |
| 11 IA-2 (CALL CENTER) DUP | 351486              | 6.77 | 1122484             | 7.97 | 679189              | 10.51 |  |  | 0708_30.D      |
| 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: WALDENE-IPARK  
 Lab Code: Phoenix Case No.:                      SAS No.:                      SDG No.: GCG29877  
 Lab Method / File Id: 20\_AIR\_0708\_wal.M / Average Date Analyzed: 07/08/20  
 Instrument ID: CHEM20 Time Analyzed: 21:02  
 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 | 328005                  | 6.75     | 1256659                 | 7.96     | 751102                  | 10.51    |  |  | Average        |
| UPPER LIMIT | 460847                  | 7.08     | 1765606                 | 8.29     | 1055298                 | 10.84    |  |  | Average        |
| LOWER LIMIT | 195163                  | 6.42     | 747712                  | 7.63     | 446905                  | 10.18    |  |  | Average        |
|             |                         |          |                         |          |                         |          |  |  |                |
| CLIENT ID   |                         |          |                         |          |                         |          |  |  |                |
| 01 ICAL 0.2 | 325569                  | 6.74     | 1168972                 | 7.96     | 661512                  | 10.51    |  |  | 0708_11.D      |
| 02 ICAL 0.5 | 328003                  | 6.74     | 1188017                 | 7.96     | 681268                  | 10.51    |  |  | 0708_12.D      |
| 03 ICAL 2.5 | 322279                  | 6.74     | 1244591                 | 7.96     | 700408                  | 10.51    |  |  | 0708_13.D      |
| 04 ICAL 5   | 324710                  | 6.75     | 1264202                 | 7.96     | 729716                  | 10.51    |  |  | 0708_14.D      |
| 05 ICAL 25  | 330935                  | 6.77     | 1293948                 | 7.97     | 839178                  | 10.51    |  |  | 0708_15.D      |
| 06 ICAL 40  | 341781                  | 6.77     | 1365202                 | 7.98     | 922588                  | 10.51    |  |  | 0708_16.D      |
| 07 ICAL 1   | 320265                  | 6.76     | 1252324                 | 7.97     | 696930                  | 10.51    |  |  | 0708_18.D      |
| 08 ICAL 10  | 330497                  | 6.77     | 1276015                 | 7.97     | 777213                  | 10.51    |  |  | 0708_19.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: WALDENE-IPARK  
 Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCG29877  
 Lab Method / File Id: 20\_AIR\_0708\_wal.M / Average Date Analyzed: 07/08/20  
 Instrument ID: CHEM20 Time Analyzed: 21:02  
 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   | 361060                  | 6.75     | 1338502                 | 7.96     | 721009                  | 10.51    |  |  | Average        |
| UPPER LIMIT   | 507290                  | 7.08     | 1880596                 | 8.29     | 1013018                 | 10.84    |  |  | Average        |
| LOWER LIMIT   | 214831                  | 6.42     | 796409                  | 7.63     | 429000                  | 10.18    |  |  | Average        |
|               |                         |          |                         |          |                         |          |  |  |                |
| CLIENT ID     |                         |          |                         |          |                         |          |  |  |                |
| 01 ICAL 0.02  | 355402                  | 6.76     | 1304768                 | 7.96     | 686083                  | 10.51    |  |  | 0708_07.D      |
| 02 ICAL 0.035 | 355185                  | 6.76     | 1324610                 | 7.97     | 698392                  | 10.51    |  |  | 0708_08.D      |
| 03 ICAL 0.05  | 356270                  | 6.75     | 1306937                 | 7.96     | 686422                  | 10.51    |  |  | 0708_09.D      |
| 04 ICAL 0.1   | 356670                  | 6.76     | 1317369                 | 7.96     | 694918                  | 10.51    |  |  | 0708_10.D      |
| 05 ICAL 0.2   | 356661                  | 6.75     | 1341266                 | 7.96     | 708958                  | 10.51    |  |  | 0708_11.D      |
| 06 ICAL 0.5   | 361652                  | 6.75     | 1381949                 | 7.96     | 725736                  | 10.51    |  |  | 0708_12.D      |
| 07 ICAL 2.5   | 363676                  | 6.75     | 1430056                 | 7.96     | 753167                  | 10.51    |  |  | 0708_13.D      |
| 08 ICAL 5     | 368761                  | 6.75     | 1449730                 | 7.96     | 782270                  | 10.51    |  |  | 0708_14.D      |
| 09 ICAL 1     | 363595                  | 6.77     | 1252324                 | 7.97     | 696930                  | 10.51    |  |  | 0708_18.D      |
| 10 ICAL 10    | 372731                  | 6.77     | 1276015                 | 7.97     | 777213                  | 10.51    |  |  | 0708_19.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



Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_24.D  
 Acq On : 9 Jul 2020 12:44 am  
 Operator :  
 Client ID : IA-DUP (CALL CENTER)  
 Lab ID : CG29877  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 13 13:59:32 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration

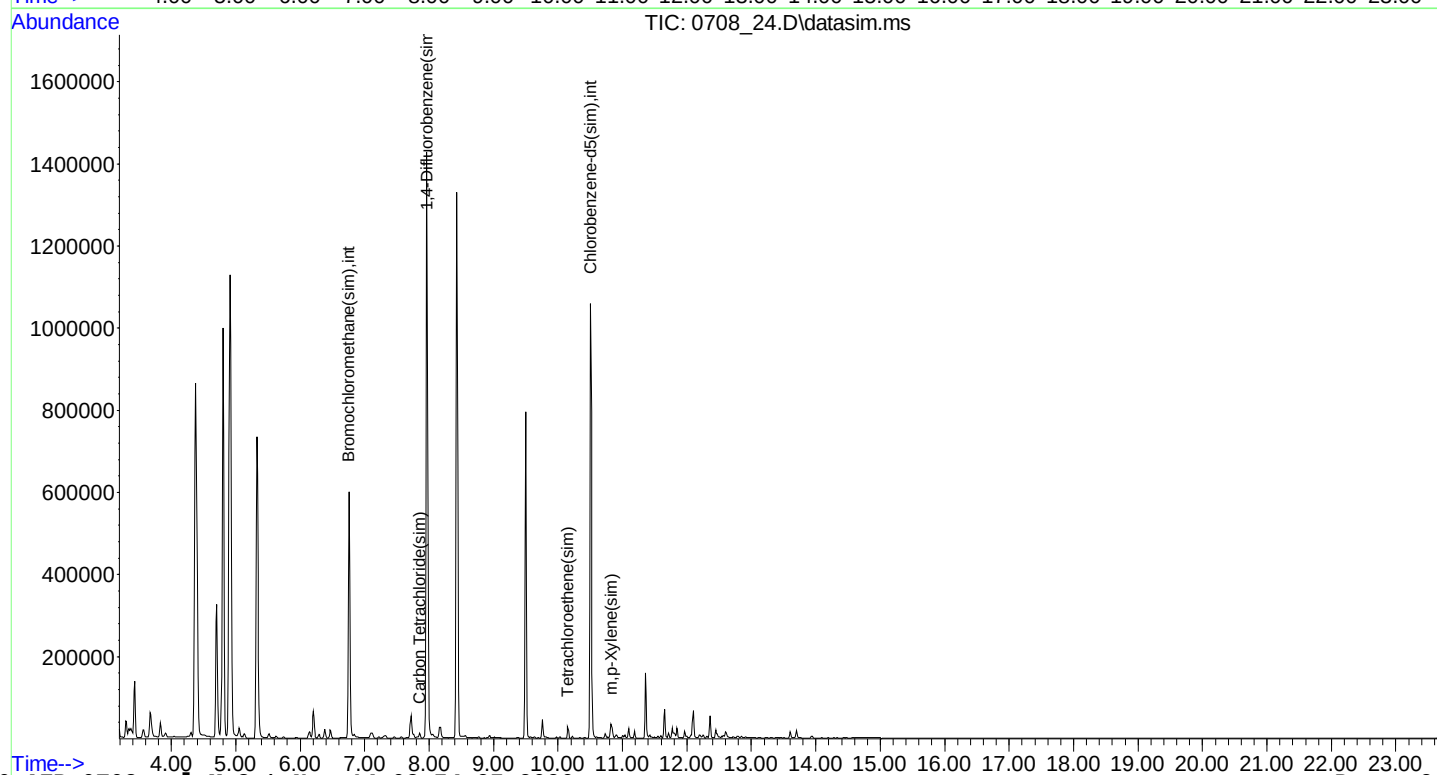
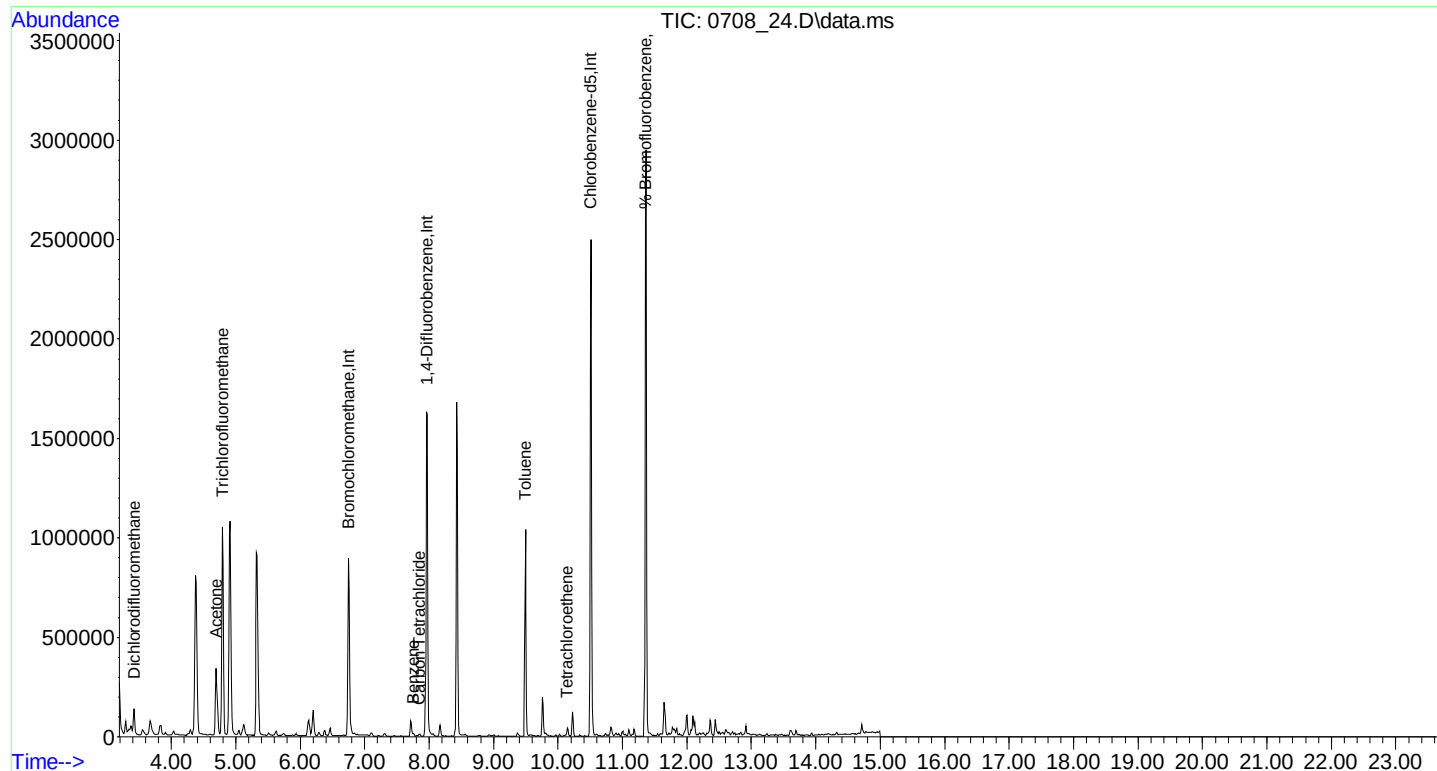
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|-------|-----------|
| Internal Standards            |        |       |          |          |       |           |
| 1) Bromochloromethane         | 6.752  | 130   | 309783   | 10.000   | ng    | 0.00      |
| 15) 1,4-Difluorobenzene       | 7.969  | 114   | 1121922  | 10.000   | ng    | 0.01      |
| 20) Chlorobenzene-d5          | 10.512 | 82    | 681138   | 10.000   | ng    | 0.00      |
| 30) Bromochloromethane(sim)   | 6.758  | 130   | 343202   | 10.000   | ng    | # 0.01    |
| 41) 1,4-Difluorobenzene(sim)  | 7.969  | 114   | 1121835  | 10.000   | ng    | 0.00      |
| 47) Chlorobenzene-d5(sim)     | 10.512 | 82    | 681138   | 10.000   | ng    | 0.00      |
| System Monitoring Compounds   |        |       |          |          |       |           |
| 25) % Bromofluorobenzene      | 11.362 | 95    | 887475   | 9.489    | ppbv  | 0.01      |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =     | 94.90%    |
| Target Compounds              |        |       |          |          |       |           |
| 2) Dichlorodifluoromethane    | 3.425  | 85    | 116235   | 0.961    | ppbv# | Qvalue 90 |
| 3) Vinyl Chloride             | 3.748  | 62    | 512      | 0.017    | ppbv# | 40        |
| 4) Acetone                    | 4.697  | 43    | 405374   | 8.587    | ppbv# | 84        |
| 5) Trichlorofluoromethane     | 4.794  | 101   | 881074   | 8.086    | ppbv  | 96        |
| 13) Benzene                   | 7.757  | 78    | 8011     | 0.084    | ppbv# | 88        |
| 14) Carbon Tetrachloride      | 7.846  | 117   | 6279     | 0.071    | ppbv  | 98        |
| 18) Toluene                   | 9.494  | 91    | 567700   | 5.573    | ppbv  | 98        |
| 19) Tetrachloroethene         | 10.144 | 166   | 8737     | 0.184    | ppbv  | 90        |
| 31) Vinyl Chloride(sim)       | 3.748  | 62    | 512      | 0.015    | ppbv# | 40        |
| 35) Carbon Tetrachloride(sim) | 7.846  | 117   | 6279     | 0.076    | ppbv  | 98        |
| 46) Tetrachloroethene(sim)    | 10.150 | 166   | 11347    | 0.285    | ppbv  | 93        |
| 48) m,p-Xylene(sim)           | 10.825 | 91    | 23542    | 0.259    | ppbv  | 97        |

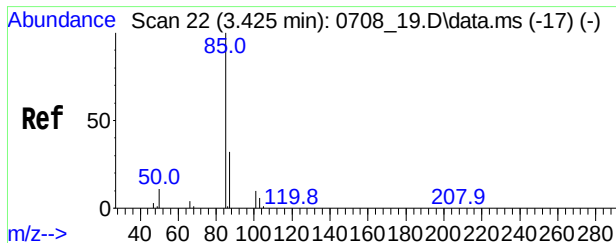
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_24.D  
 Acq On : 9 Jul 2020 12:44 am  
 Operator :  
 Client ID : IA-DUP (CALL CENTER)  
 Lab ID : CG29877  
 ALS Vial : 20 Sample Multiplier: 1

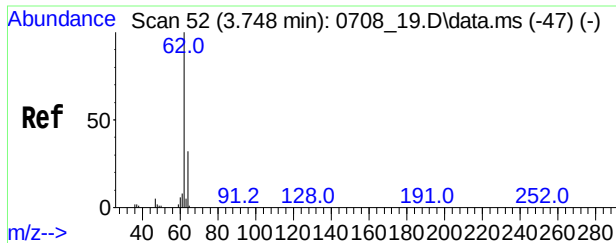
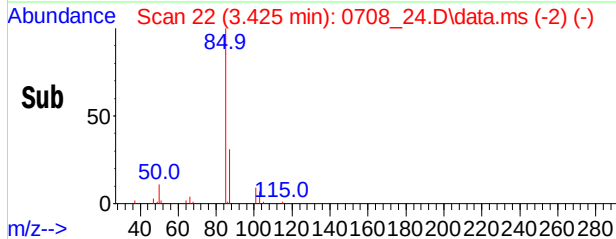
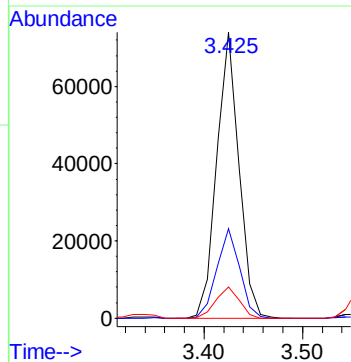
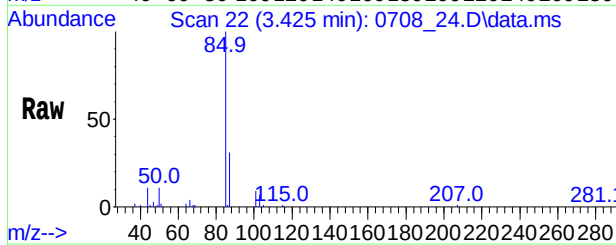
Quant Time: Oct 13 13:59:32 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration





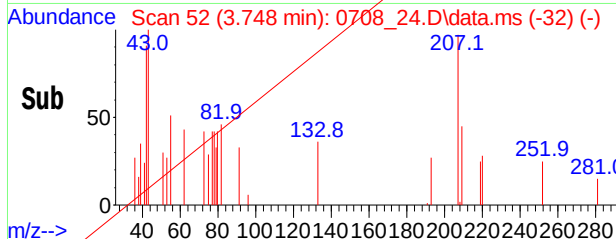
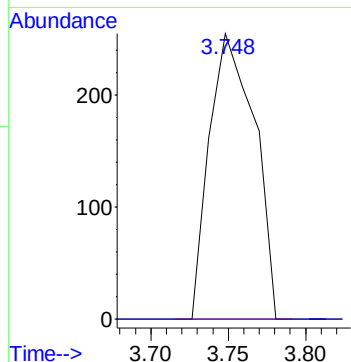
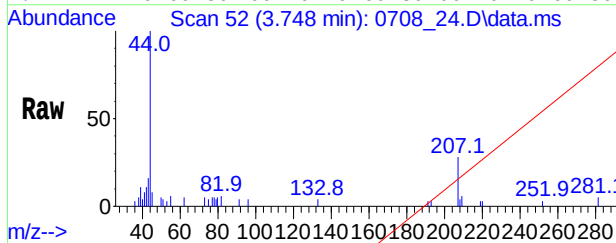
#2  
**Dichlorodifluoromethane**  
 Conc: 8\$ 0.961 ppbv  
 RT: 3.425 min Scan# 22  
 Delta R.T. 0.011 min  
 Lab File: 0708\_24.D  
 Acq: 9 Jul 2020 12:44 am

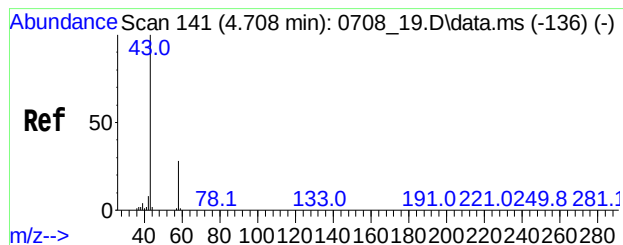
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 85      | 100   | 116235 |       |       |
| 87      | 32.3  | 31.4   | 47.2  |       |
| 50      | 11.6  | 11.8   | 17.8# |       |



#3  
**Vinyl Chloride**  
 Conc: 8\$ Below Cal  
 RT: 3.748 min Scan# 52  
 Delta R.T. 0.010 min  
 Lab File: 0708\_24.D  
 Acq: 9 Jul 2020 12:44 am

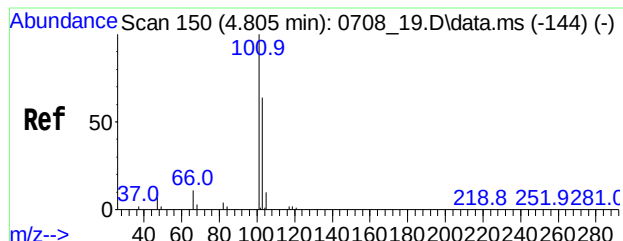
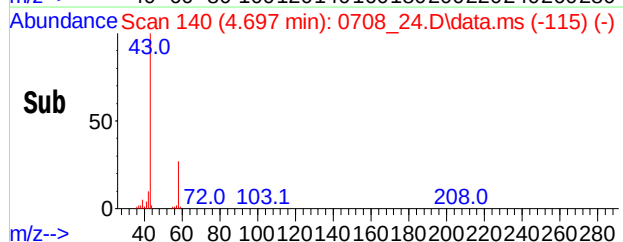
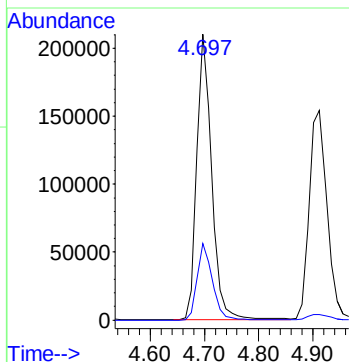
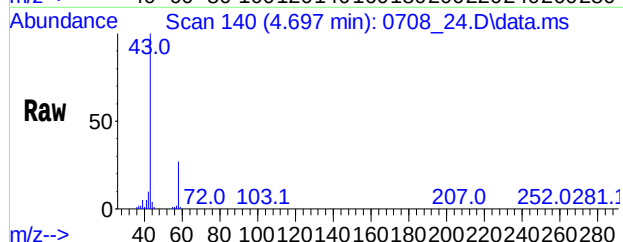
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 62      | 100   | 512  |       |       |
| 64      | 0.0   | 14.9 | 54.9# |       |





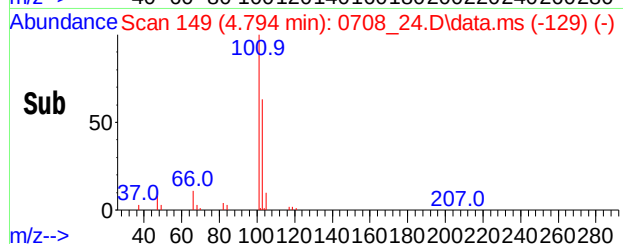
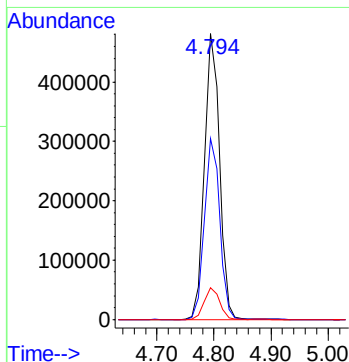
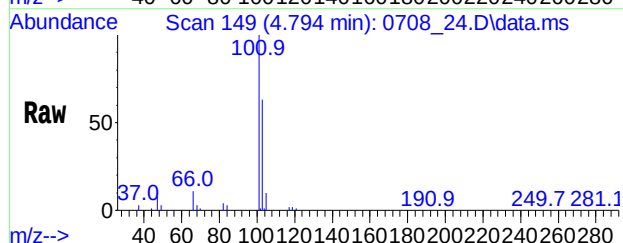
#4  
**Acetone**  
 Conc: 8\$ 8.587 ppbv  
 RT: 4.697 min Scan# 140  
 Delta R.T. -0.032 min  
 Lab File: 0708\_24.D  
 Acq: 9 Jul 2020 12:44 am

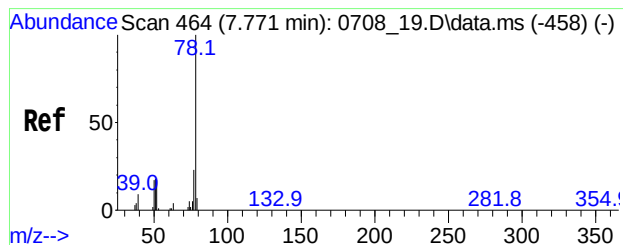
Tgt Ion: 43 Resp: 405374  
 Ion Ratio Lower Upper  
 43 100  
 58 27.5 16.2 24.2#



#5  
**Trichlorofluoromethane**  
 Conc: 8\$ 8.086 ppbv  
 RT: 4.794 min Scan# 149  
 Delta R.T. 0.011 min  
 Lab File: 0708\_24.D  
 Acq: 9 Jul 2020 12:44 am

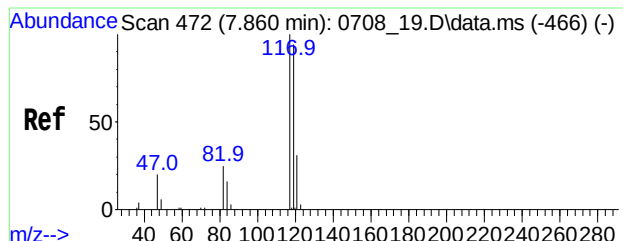
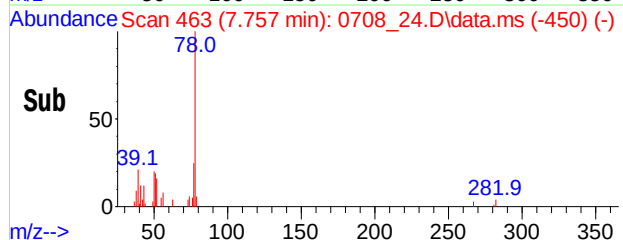
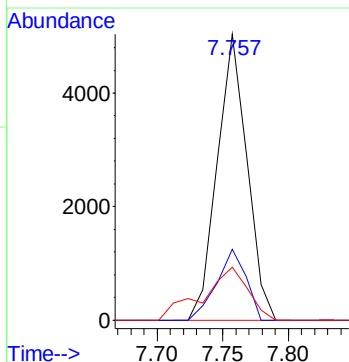
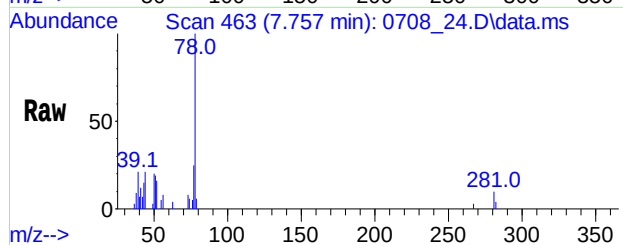
Tgt Ion: 101 Resp: 881074  
 Ion Ratio Lower Upper  
 101 100  
 103 64.1 49.0 73.6  
 66 11.2 10.7 16.1





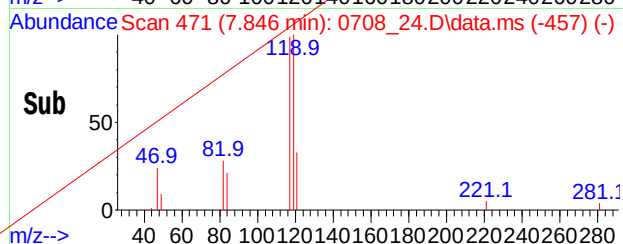
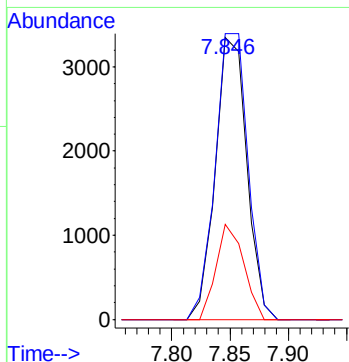
#13  
Benzene  
Conc: 8\$ 0.084 ppbv  
RT: 7.757 min Scan# 463  
Delta R.T. 0.011 min  
Lab File: 0708\_24.D  
Acq: 9 Jul 2020 12:44 am

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 78      | 100   | 8011 |       |       |
| 77      | 24.5  | 18.6 |       | 28.0  |
| 51      | 28.0  | 13.9 |       | 20.9# |

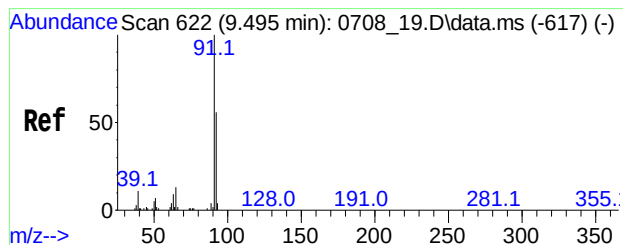


#14  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 7.846 min Scan# 471  
Delta R.T. 0.011 min  
Lab File: 0708\_24.D  
Acq: 9 Jul 2020 12:44 am

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 6279 |       |       |
| 119     | 105.4 | 87.1 |       | 127.1 |
| 121     | 29.5  | 7.2  |       | 47.2  |

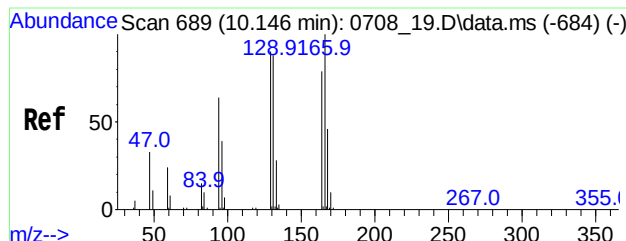
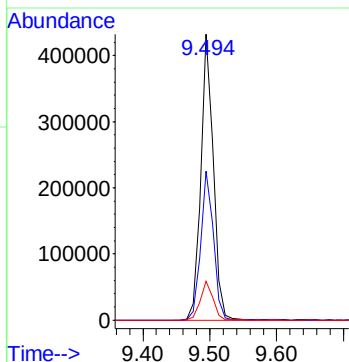
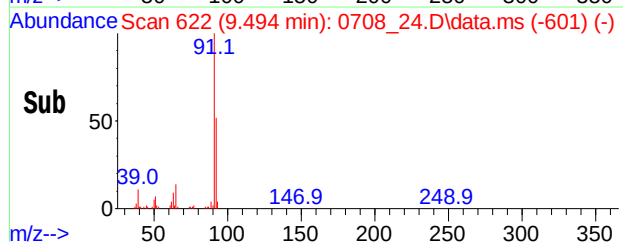
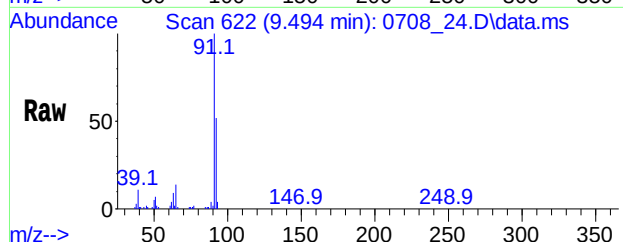






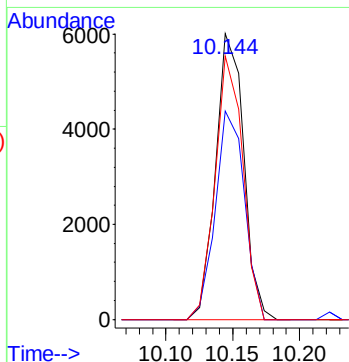
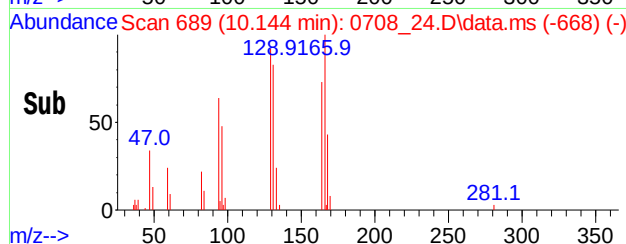
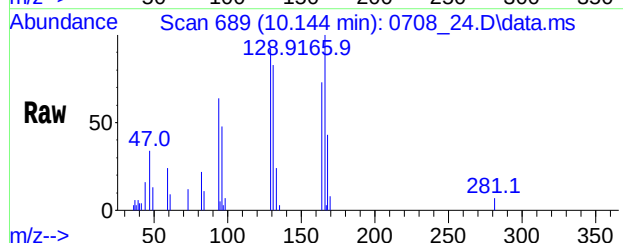
#18  
Toluene  
Conc: 8\$ 5.573 ppbv  
RT: 9.494 min Scan# 622  
Delta R.T. 0.000 min  
Lab File: 0708\_24.D  
Acq: 9 Jul 2020 12:44 am

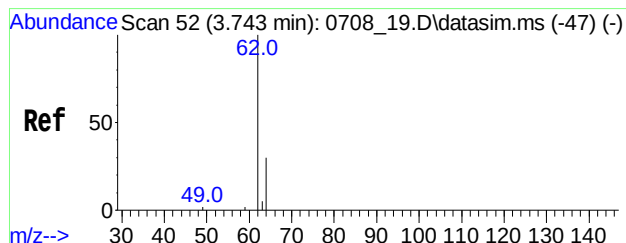
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 567700 |       |       |
| 92      | 52.8  | 40.9   | 61.3  |       |
| 65      | 13.9  | 11.7   | 17.5  |       |



#19  
Tetrachloroethene  
Conc: 8\$ 0.184 ppbv  
RT: 10.144 min Scan# 689  
Delta R.T. -0.001 min  
Lab File: 0708\_24.D  
Acq: 9 Jul 2020 12:44 am

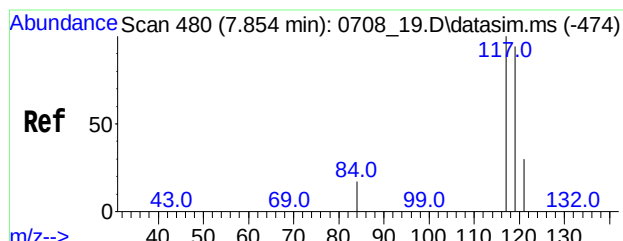
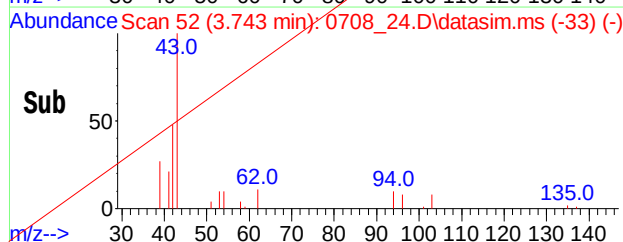
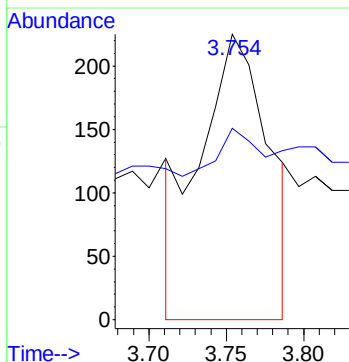
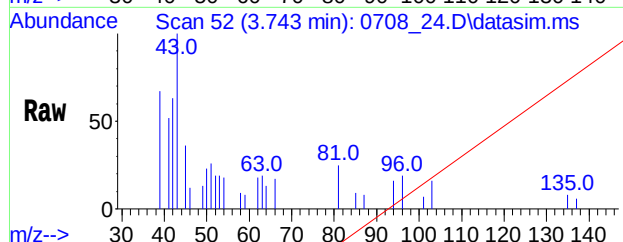
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 166     | 100   | 8737 |       |       |
| 164     | 75.7  | 56.0 | 84.0  |       |
| 129     | 90.9  | 64.2 | 96.4  |       |





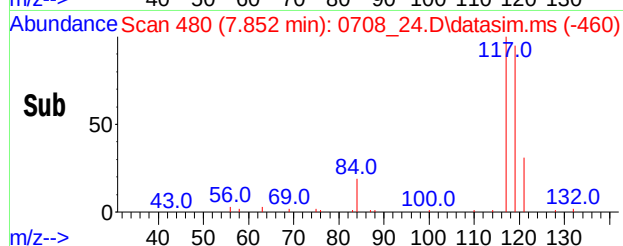
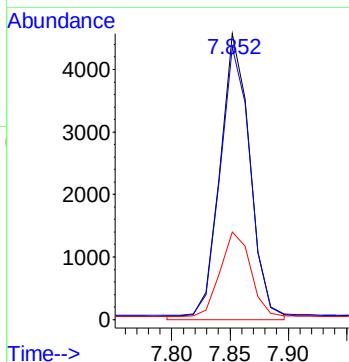
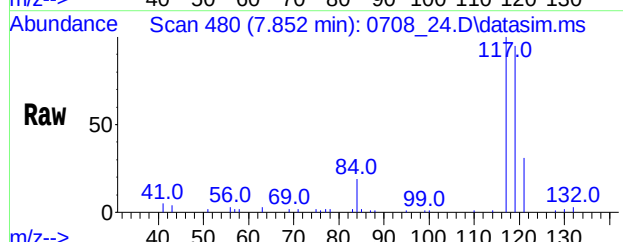
#31  
 Vinyl Chloride(sim)  
 Conc: 8\$ Below Cal  
 RT: 3.748 min Scan# 52  
 Delta R.T. 0.005 min  
 Lab File: 0708\_24.D  
 Acq: 9 Jul 2020 12:44 am

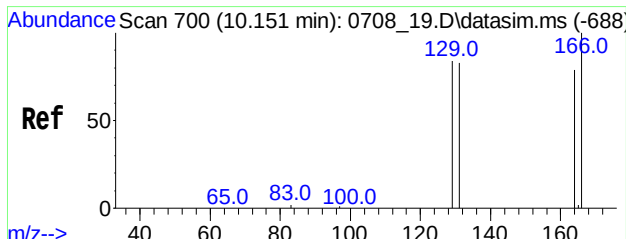
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 62      | 100   | 512  |       |       |
| 64      | 0.0   | 27.4 |       | 41.0# |



#35  
 Carbon Tetrachloride(sim)  
 Conc: 8\$ 0.076 ppbv  
 RT: 7.846 min Scan# 480  
 Delta R.T. 0.011 min  
 Lab File: 0708\_24.D  
 Acq: 9 Jul 2020 12:44 am

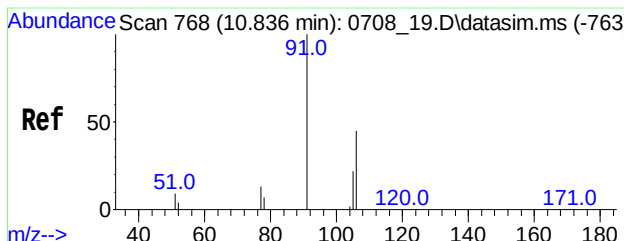
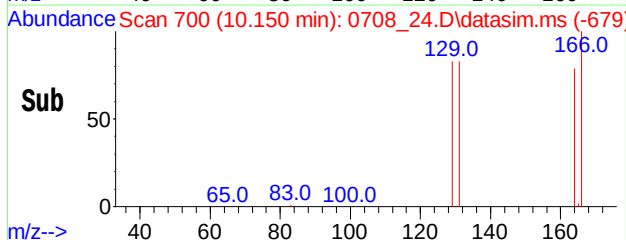
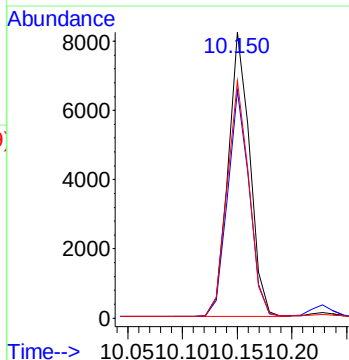
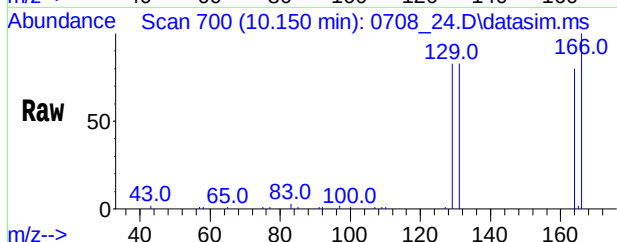
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 6279 |       |       |
| 119     | 105.4 | 85.7 |       | 128.5 |
| 121     | 29.5  | 21.8 |       | 32.6  |





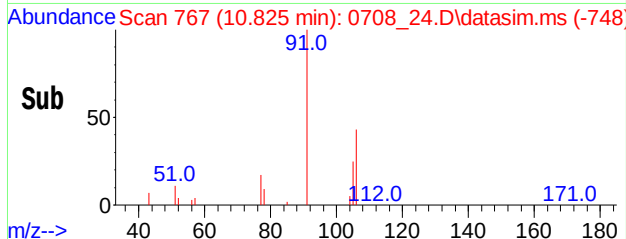
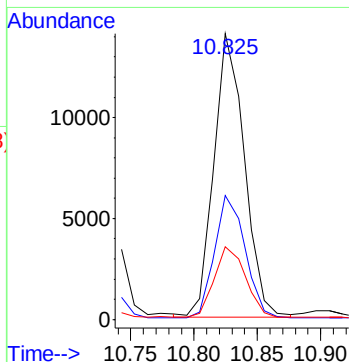
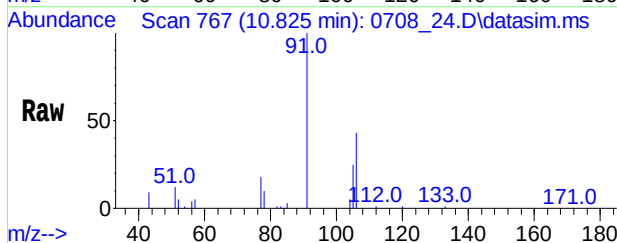
#46  
Tetrachloroethene(sim)  
Conc: 8\$ 0.285 ppbv  
RT: 10.150 min Scan# 700  
Delta R.T. 0.005 min  
Lab File: 0708\_24.D  
Acq: 9 Jul 2020 12:44 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 11347 |       |       |
| 164     | 79.4  | 50.0  | 90.0  |       |
| 129     | 83.6  | 60.3  | 100.3 |       |



#48  
m,p-Xylene(sim)  
Conc: 8\$ 0.259 ppbv  
RT: 10.825 min Scan# 767  
Delta R.T. -0.000 min  
Lab File: 0708\_24.D  
Acq: 9 Jul 2020 12:44 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 23542 |       |       |
| 106     | 43.7  | 41.1  | 50.3  |       |
| 105     | 25.6  | 21.7  | 32.5  |       |



IA-4 (CALL CENTER)

ppbv

R

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

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_25.D  
 Acq On : 9 Jul 2020 1:24 am  
 Operator :  
 Client ID : IA-4 (CALL CENTER)  
 Lab ID : CG29878  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 13 13:59:35 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration

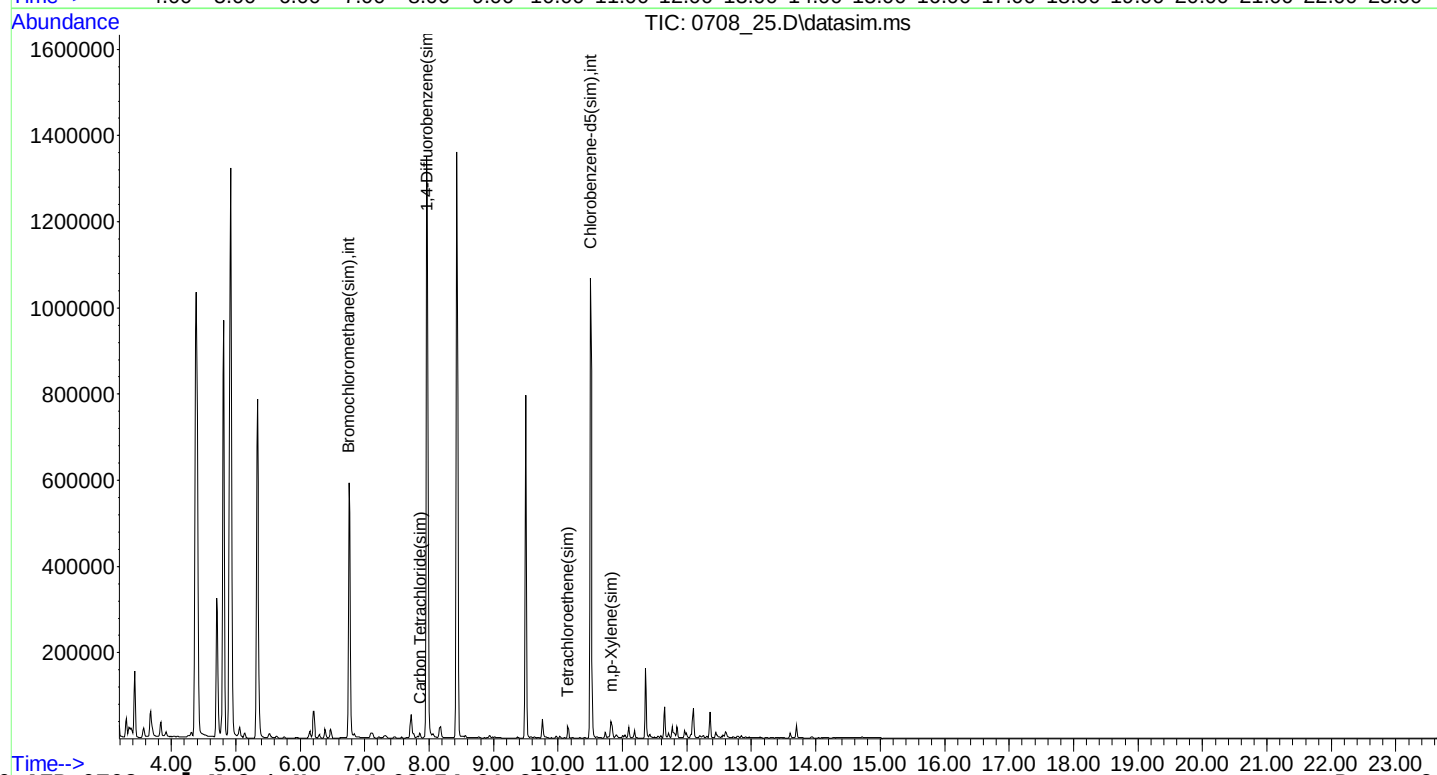
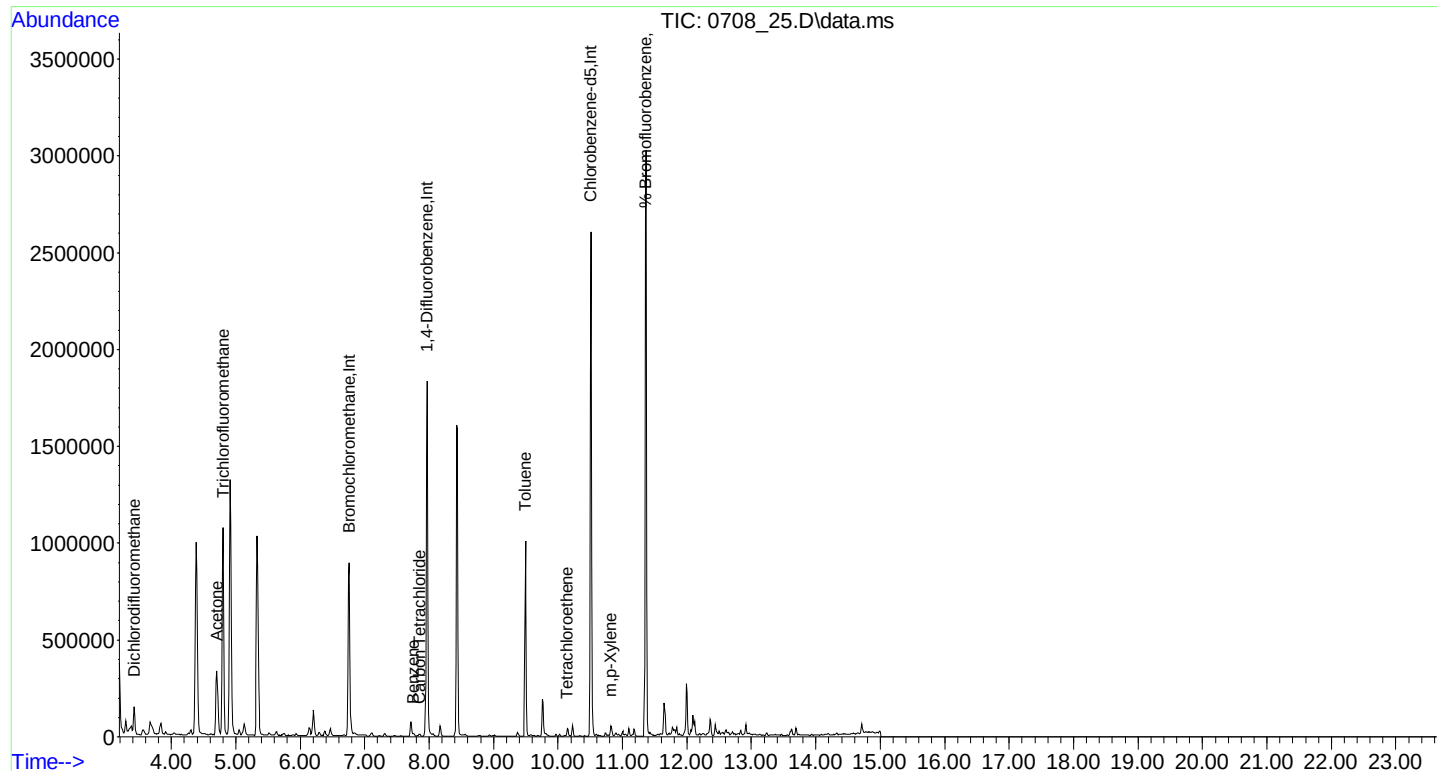
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 6.763  | 130   | 319805   | 10.000   | ng    | 0.02     |
| 15) 1,4-Difluorobenzene       | 7.969  | 114   | 1161709  | 10.000   | ng    | 0.01     |
| 20) Chlorobenzene-d5          | 10.512 | 82    | 692776   | 10.000   | ng    | 0.00     |
| 30) Bromochloromethane(sim)   | 6.758  | 130   | 360336   | 10.000   | ng    | # 0.01   |
| 41) 1,4-Difluorobenzene(sim)  | 7.969  | 114   | 1161033  | 10.000   | ng    | 0.00     |
| 47) Chlorobenzene-d5(sim)     | 10.512 | 82    | 692776   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 25) % Bromofluorobenzene      | 11.363 | 95    | 920193   | 9.674    | ppbv  | 0.01     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =     | 96.70%   |
| Target Compounds              |        |       |          |          |       |          |
| 2) Dichlorodifluoromethane    | 3.425  | 85    | 127835   | 1.023    | ppbv# | 88       |
| 4) Acetone                    | 4.708  | 43    | 408893   | 8.390    | ppbv# | 85       |
| 5) Trichlorofluoromethane     | 4.805  | 101   | 890772   | 7.919    | ppbv  | 95       |
| 13) Benzene                   | 7.757  | 78    | 9196     | 0.094    | ppbv# | 75       |
| 14) Carbon Tetrachloride      | 7.857  | 117   | 6253     | 0.069    | ppbv  | 96       |
| 18) Toluene                   | 9.494  | 91    | 569629   | 5.400    | ppbv  | 97       |
| 19) Tetrachloroethene         | 10.145 | 166   | 8207     | 0.167    | ppbv# | 83       |
| 23) m,p-Xylene                | 10.819 | 91    | 22901    | 0.159    | ppbv# | 89       |
| 35) Carbon Tetrachloride(sim) | 7.857  | 117   | 6253     | 0.072    | ppbv# | 96       |
| 46) Tetrachloroethene(sim)    | 10.150 | 166   | 11382    | 0.277    | ppbv  | 93       |
| 48) m,p-Xylene(sim)           | 10.825 | 91    | 26500    | 0.286    | ppbv  | 98       |

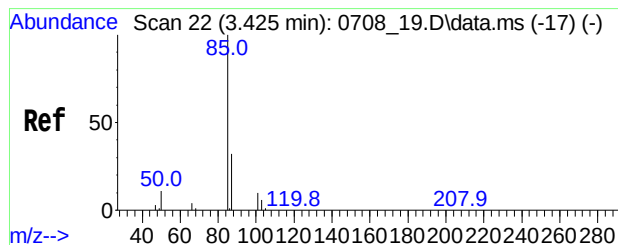
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_25.D  
 Acq On : 9 Jul 2020 1:24 am  
 Operator :  
 Client ID : IA-4 (CALL CENTER)  
 Lab ID : CG29878  
 ALS Vial : 21 Sample Multiplier: 1

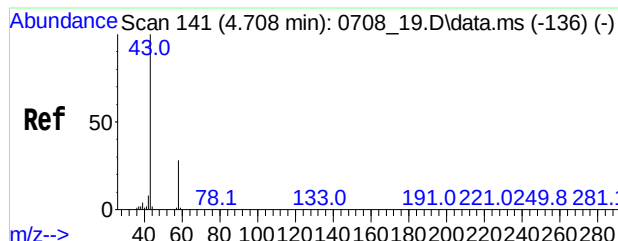
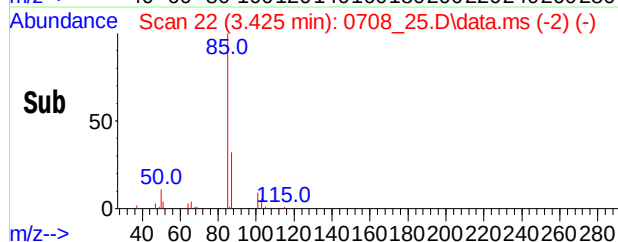
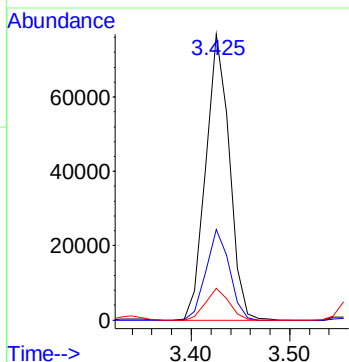
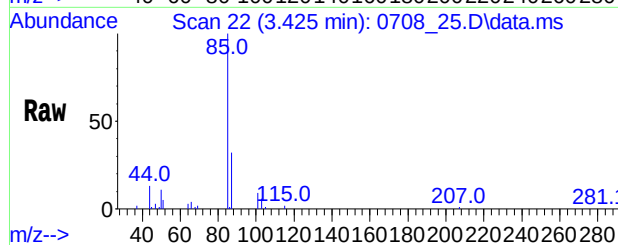
Quant Time: Oct 13 13:59:35 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration





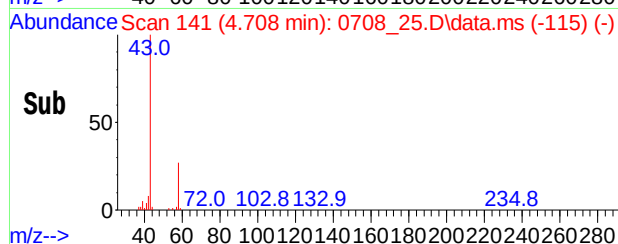
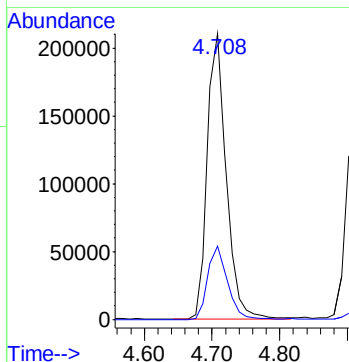
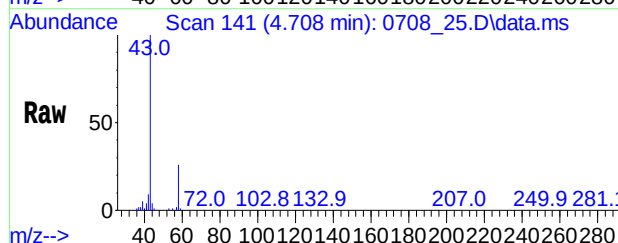
#2  
**Dichlorodifluoromethane**  
 Conc: 8\$ 1.023 ppbv  
 RT: 3.425 min Scan# 22  
 Delta R.T. 0.011 min  
 Lab File: 0708\_25.D  
 Acq: 9 Jul 2020 1:24 am

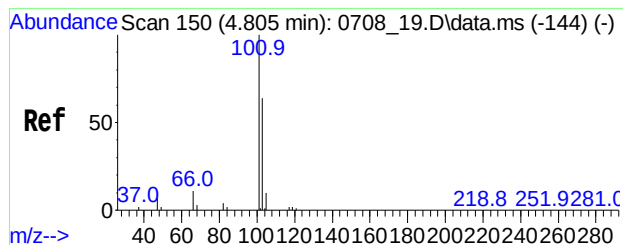
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 85      | 100   | 127835 |       |       |
| 87      | 31.6  | 31.4   | 47.2  |       |
| 50      | 10.9  | 11.8   | 17.8# |       |



#4  
**Acetone**  
 Conc: 8\$ 8.390 ppbv  
 RT: 4.708 min Scan# 141  
 Delta R.T. -0.021 min  
 Lab File: 0708\_25.D  
 Acq: 9 Jul 2020 1:24 am

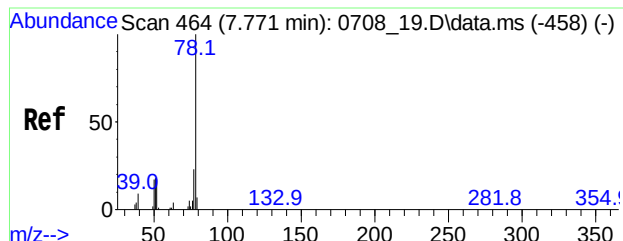
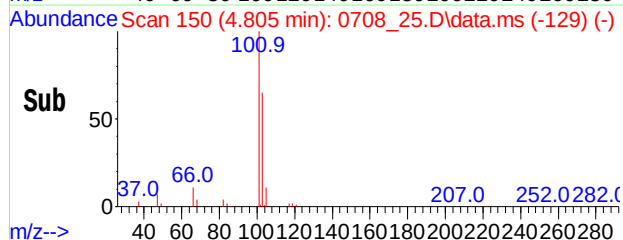
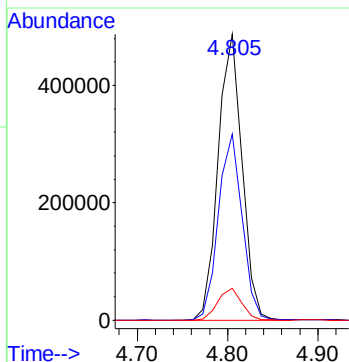
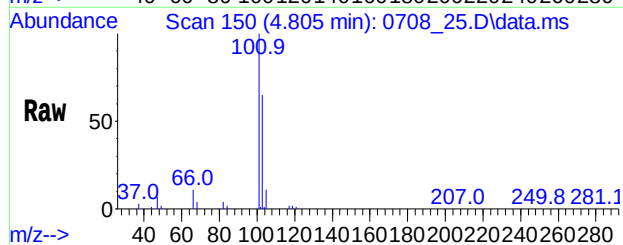
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 43      | 100   | 408893 |       |       |
| 58      | 27.0  | 16.2   | 24.2# |       |





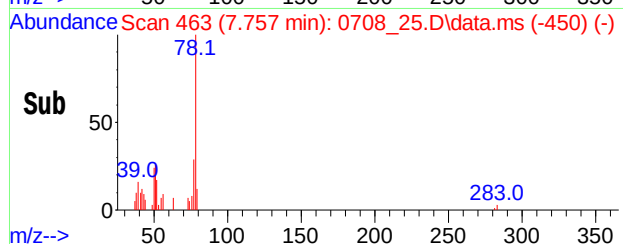
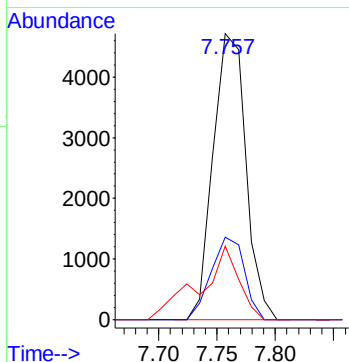
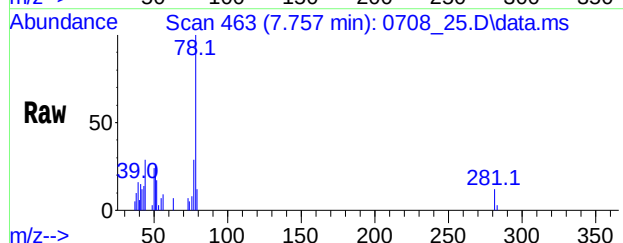
#5  
**Trichlorofluoromethane**  
 Conc: 8\$ 7.919 ppbv  
 RT: 4.805 min Scan# 150  
 Delta R.T. 0.022 min  
 Lab File: 0708\_25.D  
 Acq: 9 Jul 2020 1:24 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 890772 |       |       |
| 103     | 65.0  | 49.0   | 73.6  |       |
| 66      | 11.1  | 10.7   | 16.1  |       |

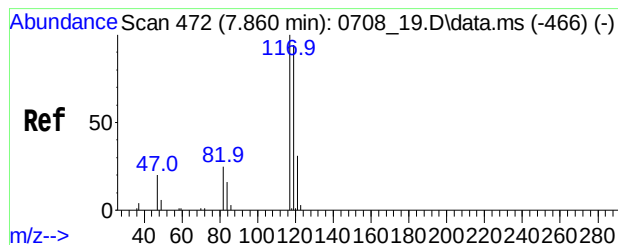


#13  
**Benzene**  
 Conc: 8\$ 0.094 ppbv  
 RT: 7.757 min Scan# 463  
 Delta R.T. 0.011 min  
 Lab File: 0708\_25.D  
 Acq: 9 Jul 2020 1:24 am

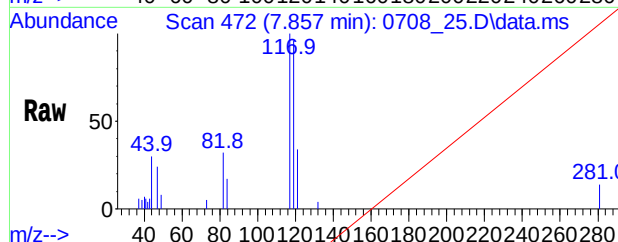
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 78      | 100   | 9196 |       |       |
| 77      | 29.2  | 18.6 | 28.0# |       |
| 51      | 35.9  | 13.9 | 20.9# |       |



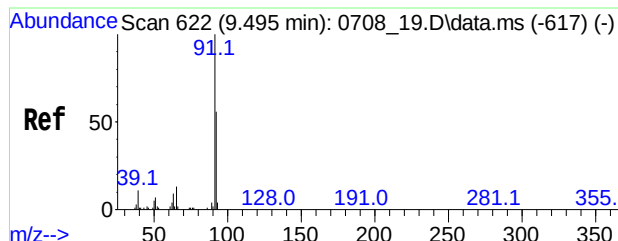
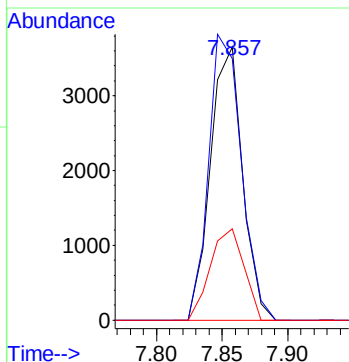
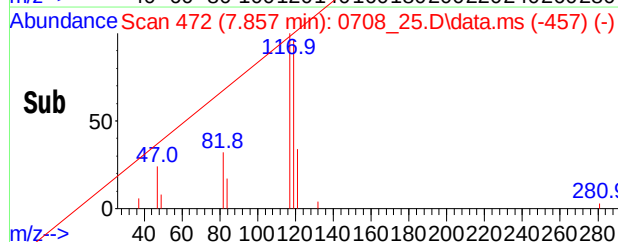




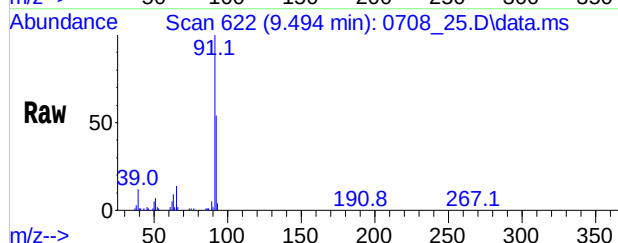
#14  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 7.857 min Scan# 472  
Delta R.T. 0.022 min  
Lab File: 0708\_25.D  
Acq: 9 Jul 2020 1:24 am



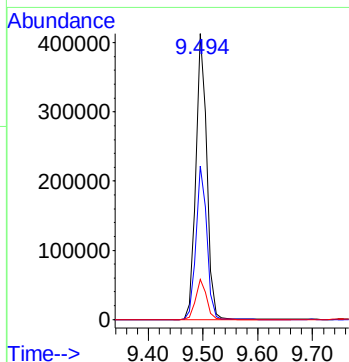
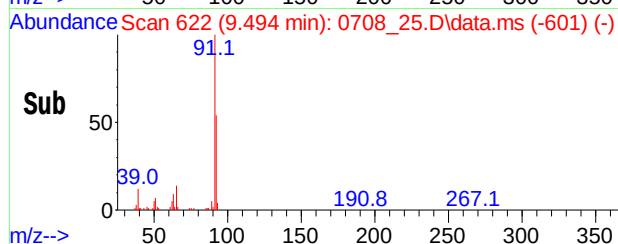
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 6253 |       |       |
| 119     | 106.4 | 87.1 | 127.1 |       |
| 121     | 35.0  | 7.2  | 47.2  |       |

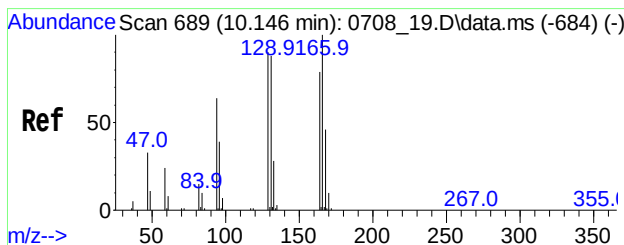


#18  
Toluene  
Conc: 8\$ 5.400 ppbv  
RT: 9.494 min Scan# 622  
Delta R.T. 0.000 min  
Lab File: 0708\_25.D  
Acq: 9 Jul 2020 1:24 am



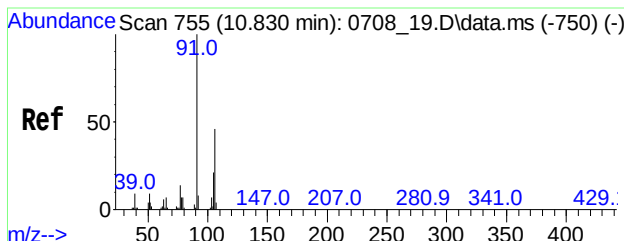
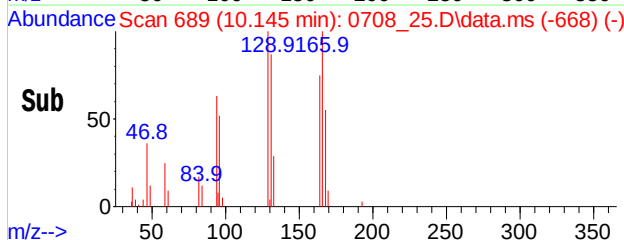
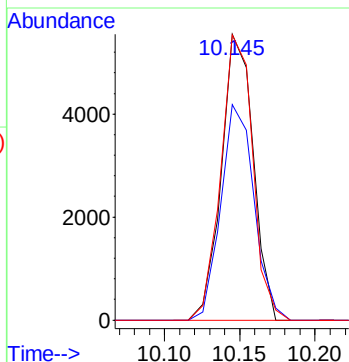
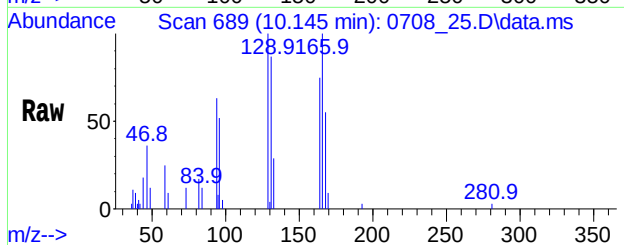
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 569629 |       |       |
| 92      | 53.2  | 40.9   | 61.3  |       |
| 65      | 14.0  | 11.7   | 17.5  |       |





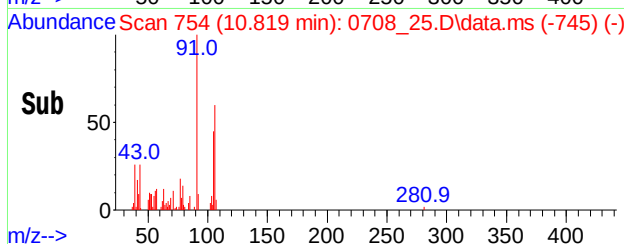
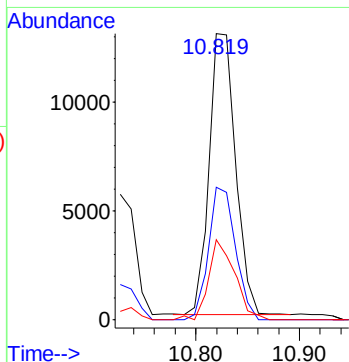
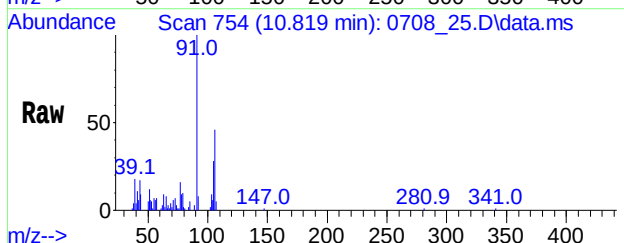
#19  
Tetrachloroethene  
Conc: 8\$ 0.167 ppbv  
RT: 10.145 min Scan# 689  
Delta R.T. -0.000 min  
Lab File: 0708\_25.D  
Acq: 9 Jul 2020 1:24 am

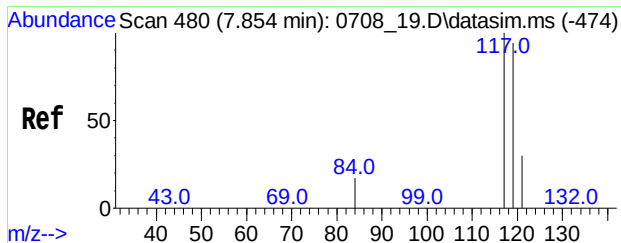
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 166     | 100   | 8207 |       |       |
| 164     | 78.8  | 56.0 | 84.0  |       |
| 129     | 100.0 | 64.2 | 96.4# |       |



#23  
m,p-Xylene  
Conc: 8\$ 0.159 ppbv  
RT: 10.819 min Scan# 754  
Delta R.T. -0.011 min  
Lab File: 0708\_25.D  
Acq: 9 Jul 2020 1:24 am

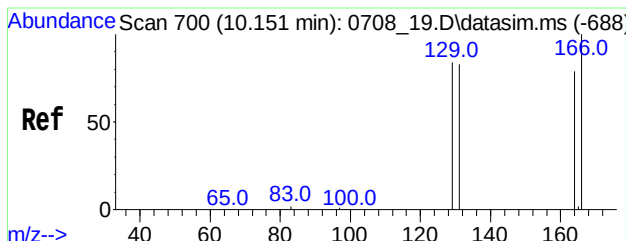
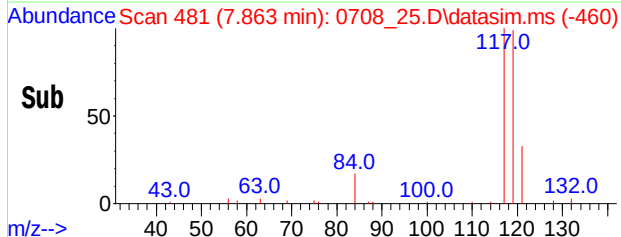
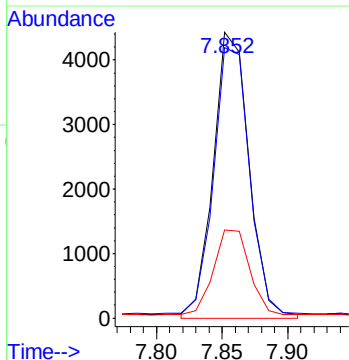
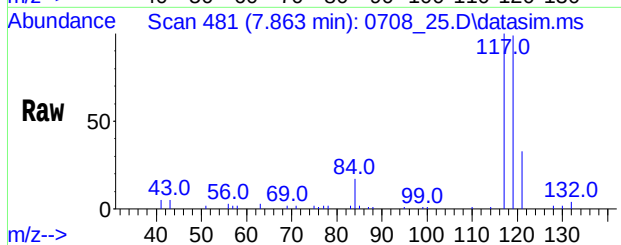
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 22901 |       |       |
| 106     | 47.8  | 30.7  | 46.1# |       |
| 105     | 27.9  | 24.3  | 36.5  |       |





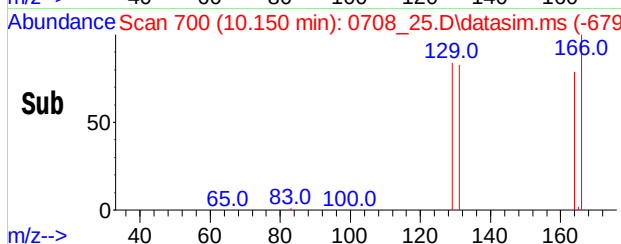
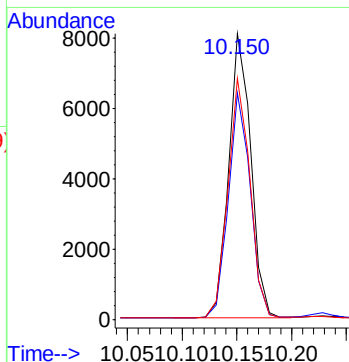
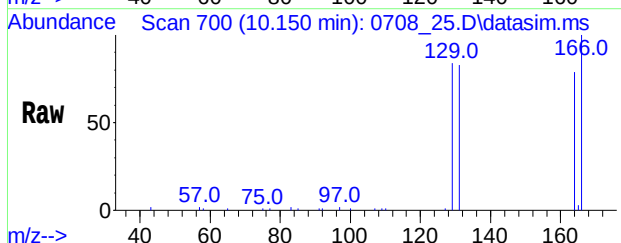
#35  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.072 ppbv  
RT: 7.857 min Scan# 481  
Delta R.T. 0.022 min  
Lab File: 0708\_25.D  
Acq: 9 Jul 2020 1:24 am

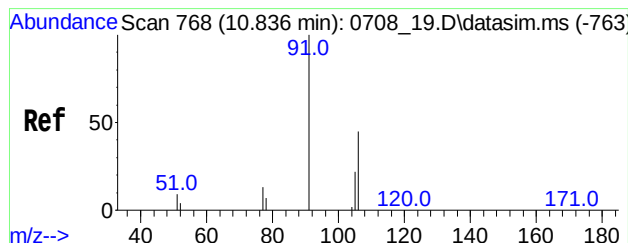
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 6253 |       |       |
| 119     | 106.4 | 85.7 | 128.5 |       |
| 121     | 35.0  | 21.8 | 32.6# |       |



#46  
Tetrachloroethene(sim)  
Conc: 8\$ 0.277 ppbv  
RT: 10.150 min Scan# 700  
Delta R.T. 0.005 min  
Lab File: 0708\_25.D  
Acq: 9 Jul 2020 1:24 am

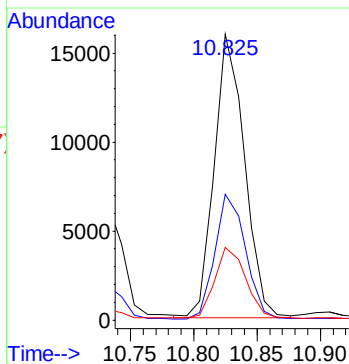
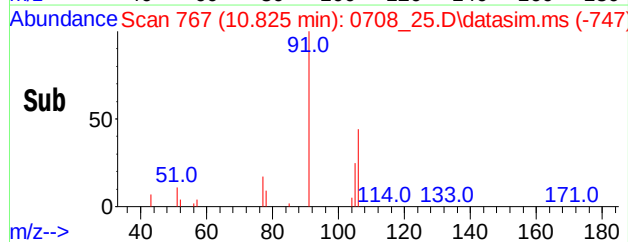
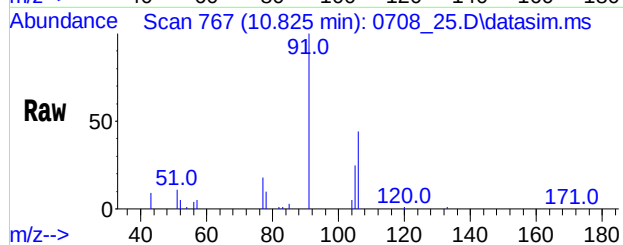
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 11382 |       |       |
| 164     | 78.4  | 50.0  | 90.0  |       |
| 129     | 84.1  | 60.3  | 100.3 |       |





#48  
 m,p-Xylene(sim)  
 Conc: 8\$ 0.286 ppbv  
 RT: 10.825 min Scan# 767  
 Delta R.T. 0.000 min  
 Lab File: 0708\_25.D  
 Acq: 9 Jul 2020 1:24 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 26500 |       |       |
| 106     | 44.5  | 41.1  | 50.3  |       |
| 105     | 25.6  | 21.7  | 32.5  |       |





# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_26.D  
 Acq On : 9 Jul 2020 2:04 am  
 Operator :  
 Client ID : IA-5 (CALL CENTER)  
 Lab ID : CG29879  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 13 13:59:38 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration

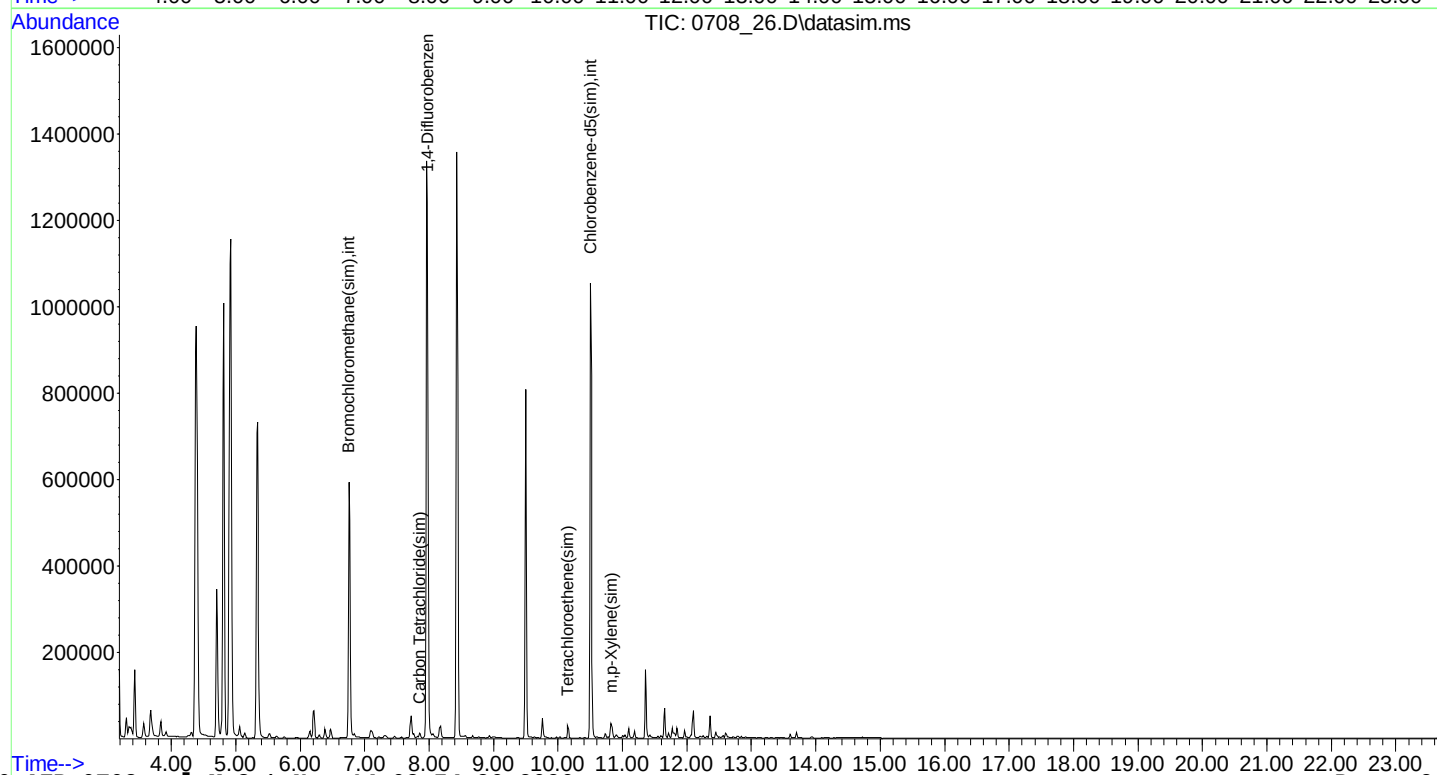
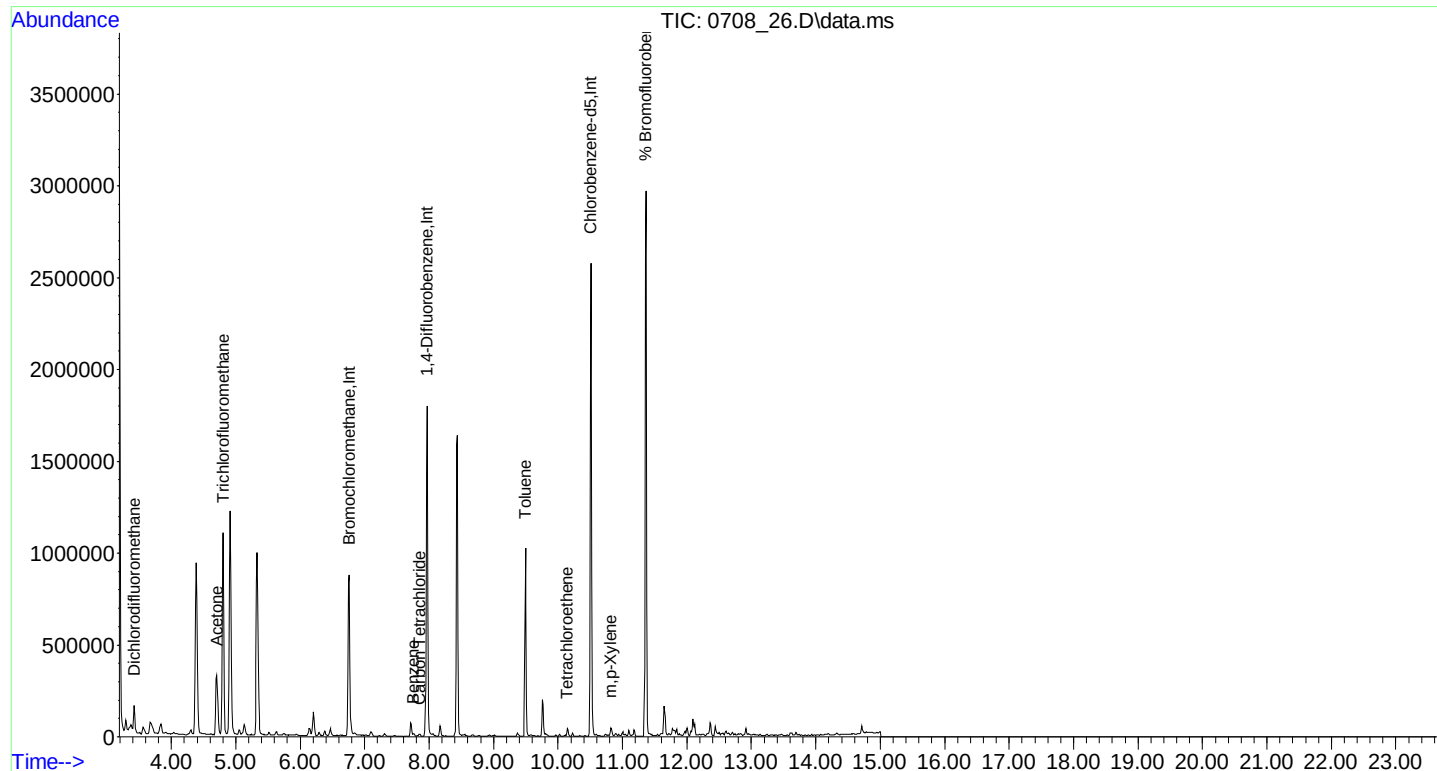
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 6.763  | 130   | 317976   | 10.000   | ng    | 0.02     |
| 15) 1,4-Difluorobenzene       | 7.969  | 114   | 1150294  | 10.000   | ng    | 0.01     |
| 20) Chlorobenzene-d5          | 10.512 | 82    | 689266   | 10.000   | ng    | 0.00     |
| 30) Bromochloromethane(sim)   | 6.758  | 130   | 354993   | 10.000   | ng    | # 0.01   |
| 41) 1,4-Difluorobenzene(sim)  | 7.969  | 114   | 1149876  | 10.000   | ng    | 0.00     |
| 47) Chlorobenzene-d5(sim)     | 10.512 | 82    | 689266   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 25) % Bromofluorobenzene      | 11.363 | 95    | 897967   | 9.488    | ppbv  | 0.01     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =     | 94.90%   |
| Target Compounds              |        |       |          |          |       |          |
| 2) Dichlorodifluoromethane    | 3.425  | 85    | 127699   | 1.028    | ppbv# | 90       |
| 3) Vinyl Chloride             | 3.759  | 62    | 583      | 0.019    | ppbv# | 40       |
| 4) Acetone                    | 4.708  | 43    | 409527   | 8.451    | ppbv# | 84       |
| 5) Trichlorofluoromethane     | 4.805  | 101   | 896862   | 8.019    | ppbv  | 95       |
| 13) Benzene                   | 7.757  | 78    | 8143     | 0.084    | ppbv# | 86       |
| 14) Carbon Tetrachloride      | 7.857  | 117   | 6915     | 0.077    | ppbv  | 86       |
| 18) Toluene                   | 9.494  | 91    | 569044   | 5.448    | ppbv  | 97       |
| 19) Tetrachloroethene         | 10.145 | 166   | 8565     | 0.176    | ppbv  | 90       |
| 23) m,p-Xylene                | 10.819 | 91    | 21909    | 0.153    | ppbv  | 91       |
| 31) Vinyl Chloride(sim)       | 3.759  | 62    | 583      | 0.017    | ppbv# | 40       |
| 35) Carbon Tetrachloride(sim) | 7.857  | 117   | 6915     | 0.081    | ppbv  | 86       |
| 46) Tetrachloroethene(sim)    | 10.150 | 166   | 11545    | 0.283    | ppbv  | 93       |
| 48) m,p-Xylene(sim)           | 10.825 | 91    | 23441    | 0.255    | ppbv  | 98       |

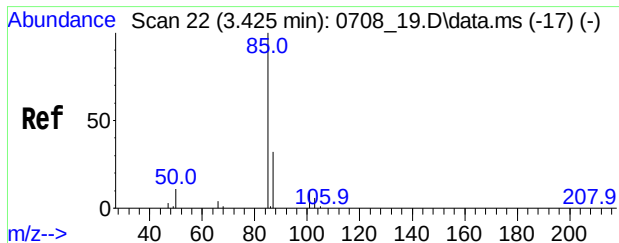
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_26.D  
 Acq On : 9 Jul 2020 2:04 am  
 Operator :  
 Client ID : IA-5 (CALL CENTER)  
 Lab ID : CG29879  
 ALS Vial : 22 Sample Multiplier: 1

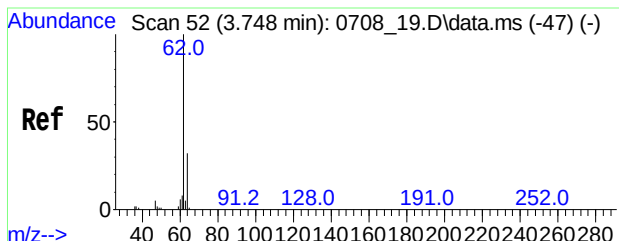
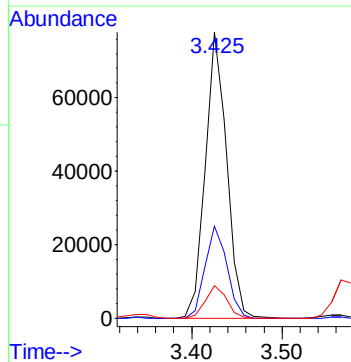
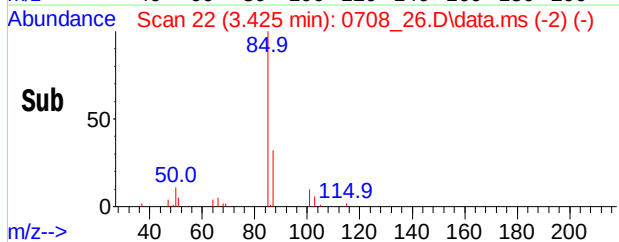
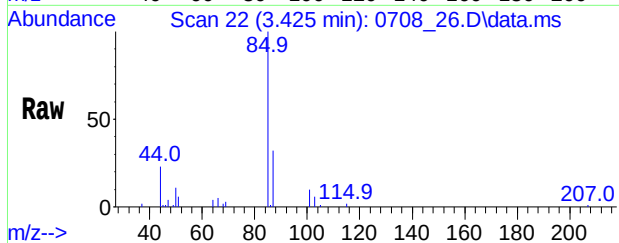
Quant Time: Oct 13 13:59:38 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration





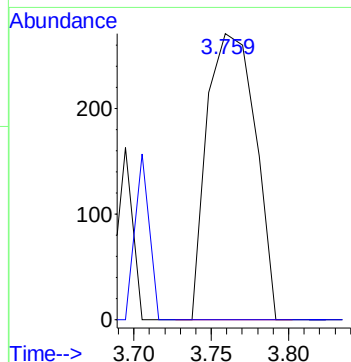
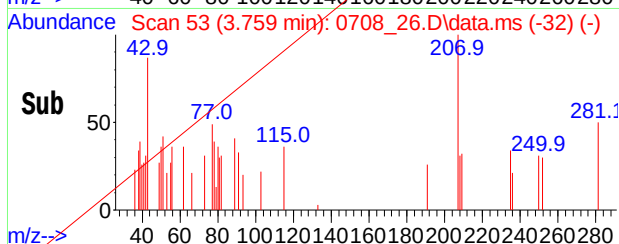
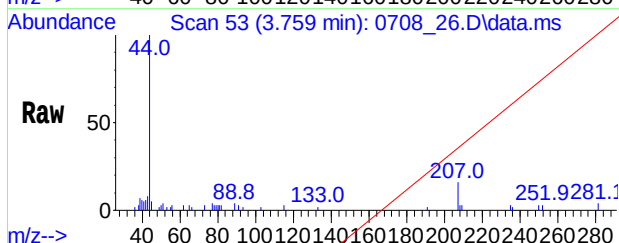
#2  
**Dichlorodifluoromethane**  
 Conc: 8\$ 1.028 ppbv  
 RT: 3.425 min Scan# 22  
 Delta R.T. 0.011 min  
 Lab File: 0708\_26.D  
 Acq: 9 Jul 2020 2:04 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 85      | 100   | 127699 |       |       |
| 87      | 32.9  | 31.4   | 47.2  |       |
| 50      | 11.2  | 11.8   | 17.8# |       |

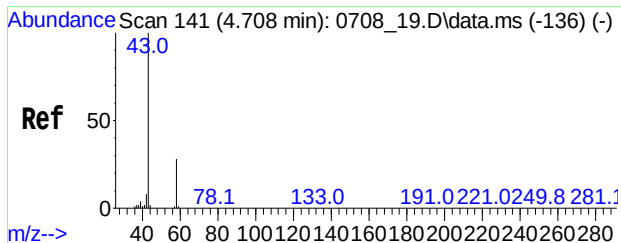


#3  
**Vinyl Chloride**  
 Conc: 8\$ Below Cal  
 RT: 3.759 min Scan# 53  
 Delta R.T. 0.021 min  
 Lab File: 0708\_26.D  
 Acq: 9 Jul 2020 2:04 am

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 62      | 100   | 583  |       |       |
| 64      | 0.0   | 14.9 | 54.9# |       |

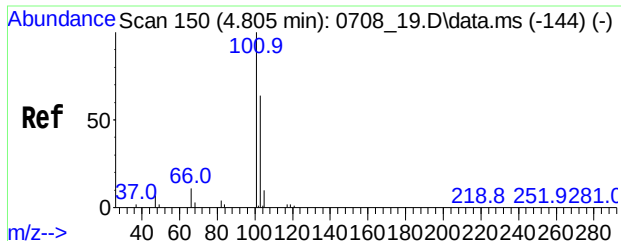
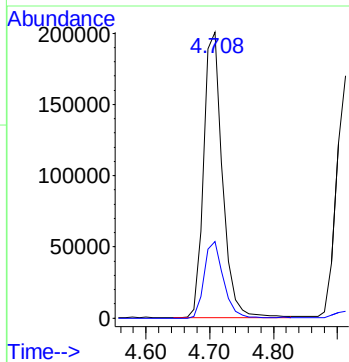
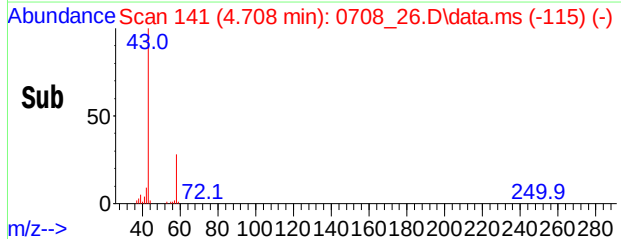
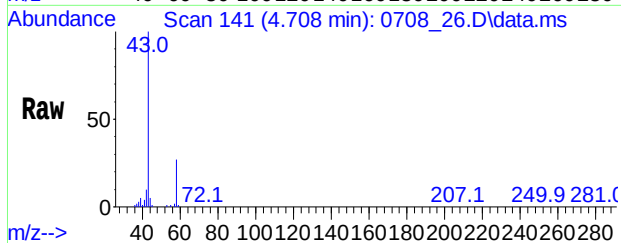






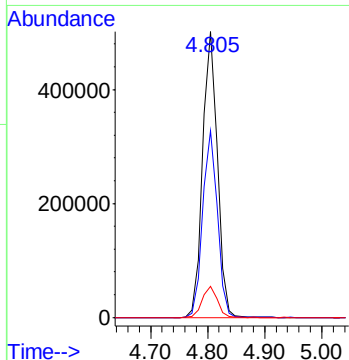
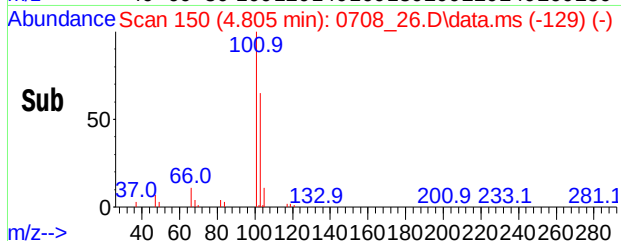
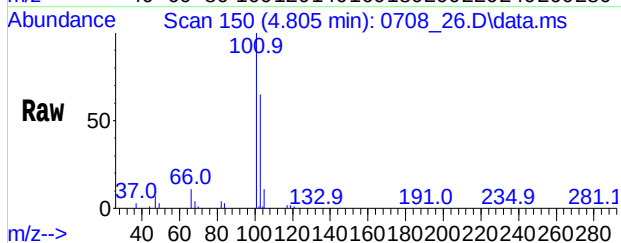
#4  
Acetone  
Conc: 8\$ 8.451 ppbv  
RT: 4.708 min Scan# 141  
Delta R.T. -0.021 min  
Lab File: 0708\_26.D  
Acq: 9 Jul 2020 2:04 am

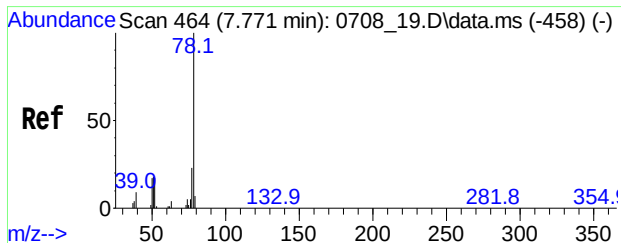
Tgt Ion: 43 Resp: 409527  
Ion Ratio Lower Upper  
43 100  
58 27.7 16.2 24.2#



#5  
Trichlorofluoromethane  
Conc: 8\$ 8.019 ppbv  
RT: 4.805 min Scan# 150  
Delta R.T. 0.022 min  
Lab File: 0708\_26.D  
Acq: 9 Jul 2020 2:04 am

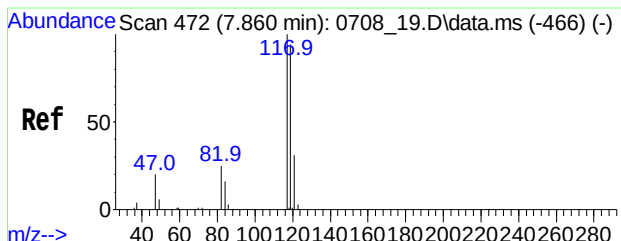
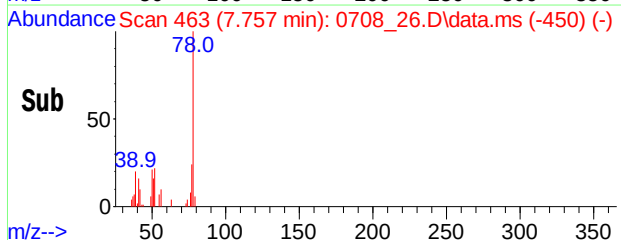
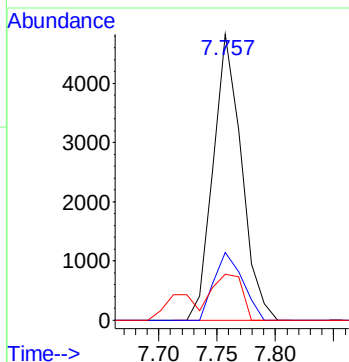
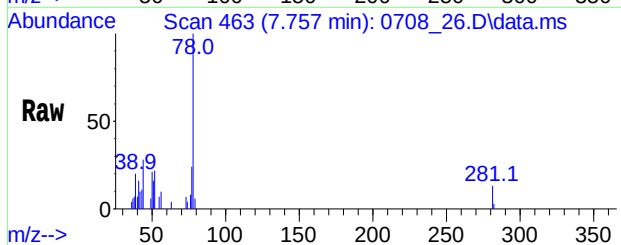
Tgt Ion: 101 Resp: 896862  
Ion Ratio Lower Upper  
101 100  
103 65.1 49.0 73.6  
66 11.1 10.7 16.1





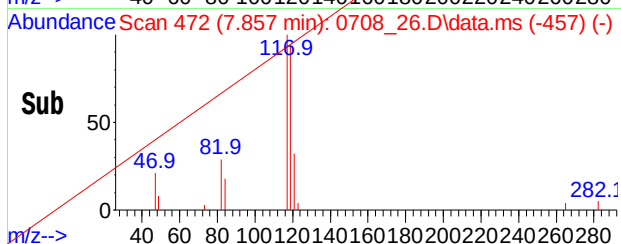
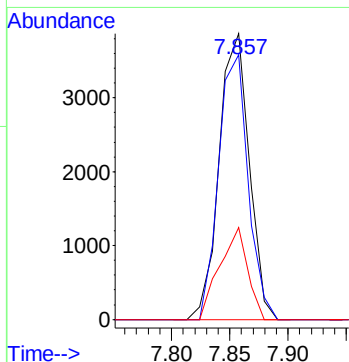
#13  
Benzene  
Conc: 8\$ 0.084 ppbv  
RT: 7.757 min Scan# 463  
Delta R.T. 0.011 min  
Lab File: 0708\_26.D  
Acq: 9 Jul 2020 2:04 am

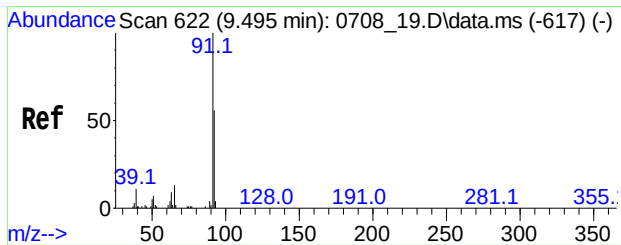
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 78      | 100   | 8143 |       |       |
| 77      | 23.9  | 18.6 |       | 28.0  |
| 51      | 31.4  | 13.9 |       | 20.9# |



#14  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 7.857 min Scan# 472  
Delta R.T. 0.022 min  
Lab File: 0708\_26.D  
Acq: 9 Jul 2020 2:04 am

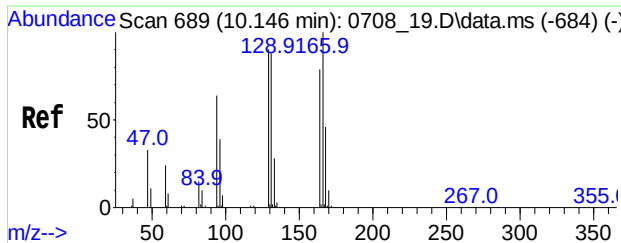
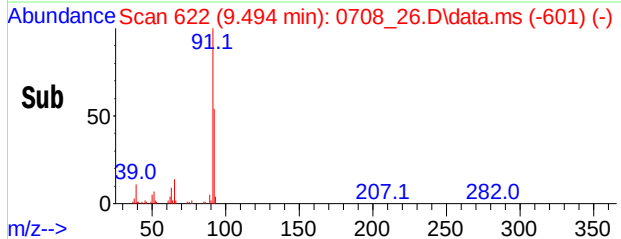
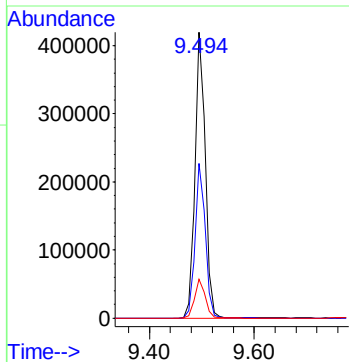
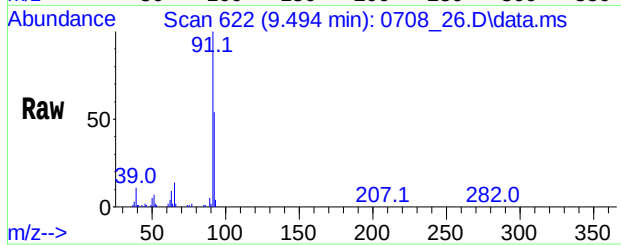
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 6915 |       |       |
| 119     | 90.7  | 87.1 |       | 127.1 |
| 121     | 29.9  | 7.2  |       | 47.2  |





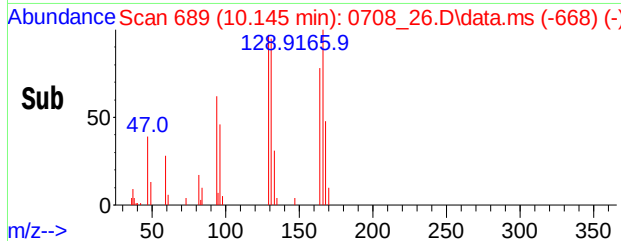
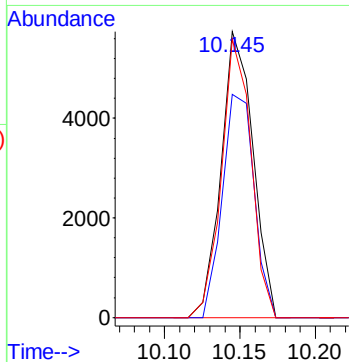
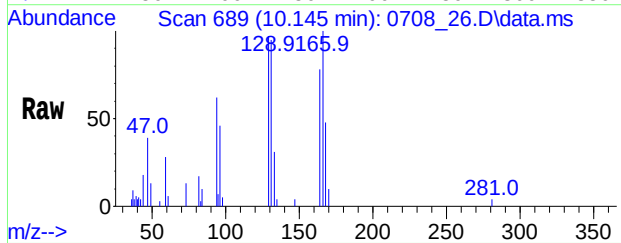
#18  
Toluene  
Conc: 8\$ 5.448 ppbv  
RT: 9.494 min Scan# 622  
Delta R.T. 0.000 min  
Lab File: 0708\_26.D  
Acq: 9 Jul 2020 2:04 am

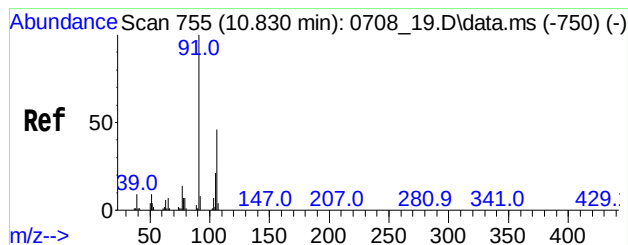
| Tgt Ion | Ratio | Resp   | Upper |
|---------|-------|--------|-------|
| 91      | 100   | 569044 |       |
| 92      | 53.8  | 40.9   | 61.3  |
| 65      | 14.0  | 11.7   | 17.5  |



#19  
Tetrachloroethene  
Conc: 8\$ 0.176 ppbv  
RT: 10.145 min Scan# 689  
Delta R.T. -0.000 min  
Lab File: 0708\_26.D  
Acq: 9 Jul 2020 2:04 am

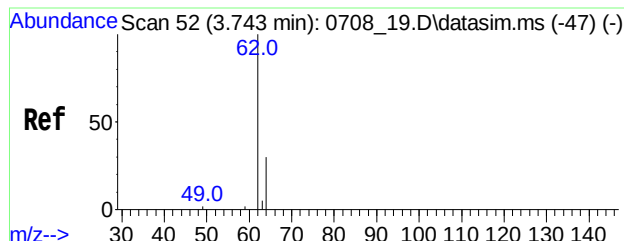
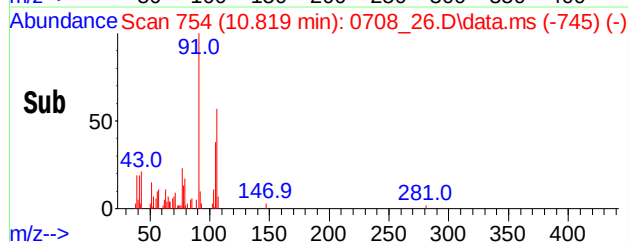
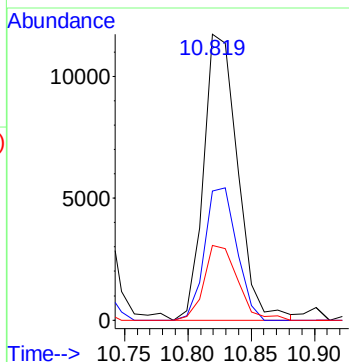
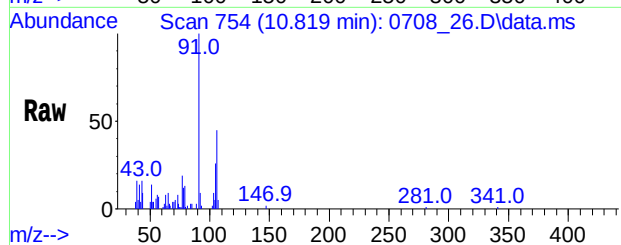
| Tgt Ion | Ratio | Resp | Upper |
|---------|-------|------|-------|
| 166     | 100   | 8565 |       |
| 164     | 77.5  | 56.0 | 84.0  |
| 129     | 90.0  | 64.2 | 96.4  |





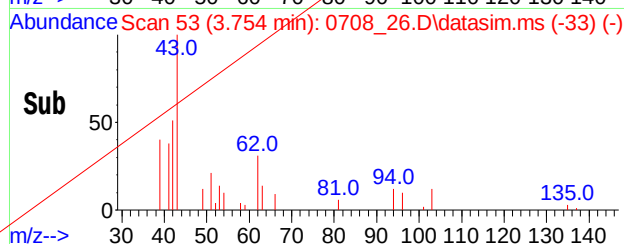
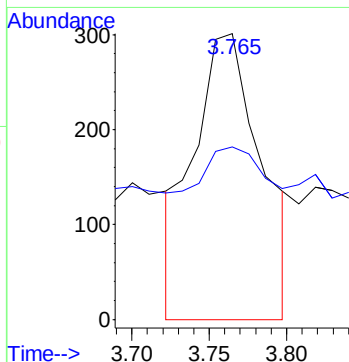
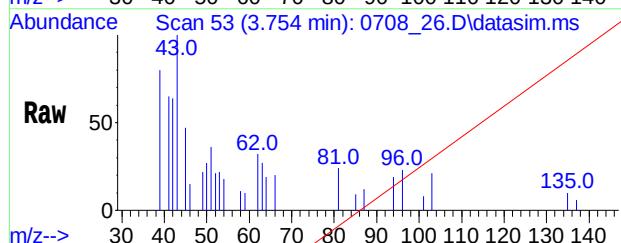
#23  
m,p-Xylene  
Conc: 8\$ 0.153 ppbv  
RT: 10.819 min Scan# 754  
Delta R.T. -0.011 min  
Lab File: 0708\_26.D  
Acq: 9 Jul 2020 2:04 am

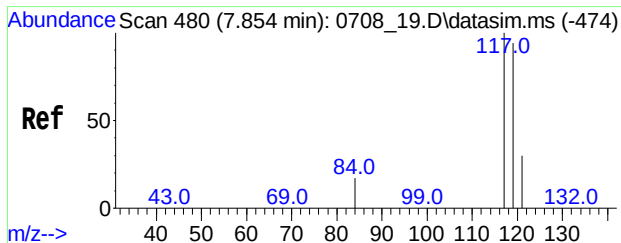
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 21909 |       |       |
| 106     | 44.0  | 30.7  |       | 46.1  |
| 105     | 25.9  | 24.3  |       | 36.5  |



#31  
Vinyl Chloride(sim)  
Conc: 8\$ Below Cal  
RT: 3.759 min Scan# 53  
Delta R.T. 0.016 min  
Lab File: 0708\_26.D  
Acq: 9 Jul 2020 2:04 am

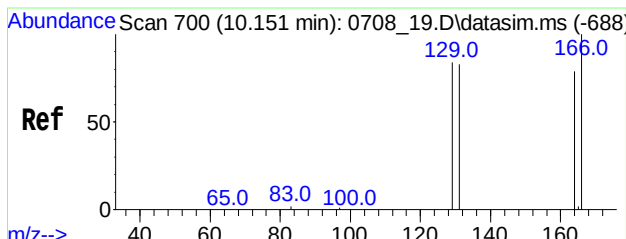
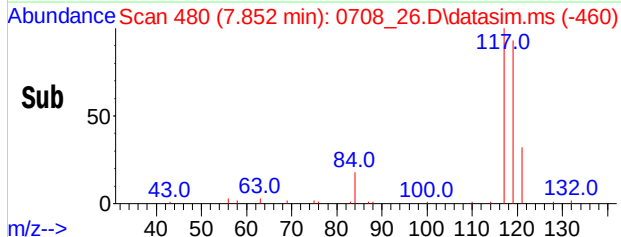
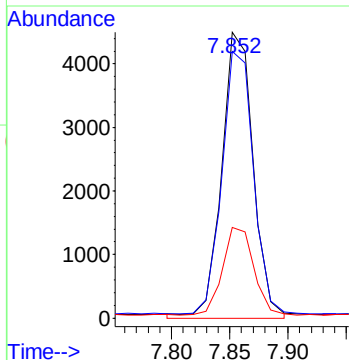
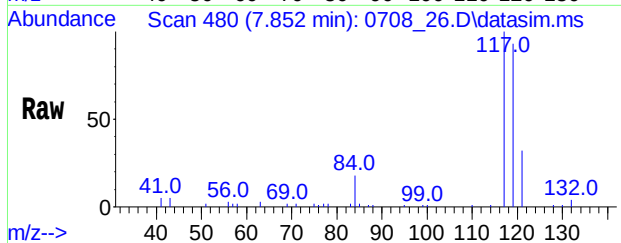
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 62      | 100   | 583  |       |       |
| 64      | 0.0   | 27.4 |       | 41.0# |





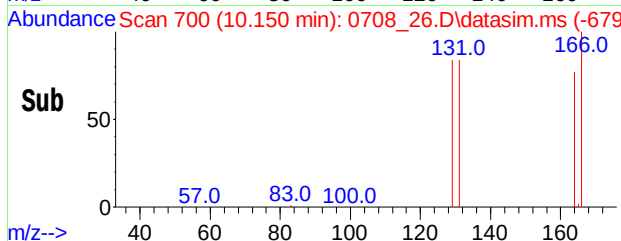
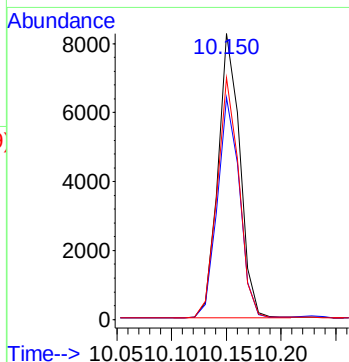
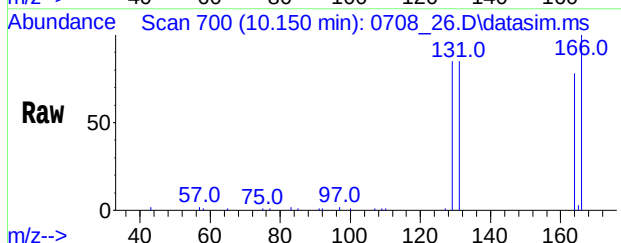
#35  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.081 ppbv  
RT: 7.857 min Scan# 480  
Delta R.T. 0.022 min  
Lab File: 0708\_26.D  
Acq: 9 Jul 2020 2:04 am

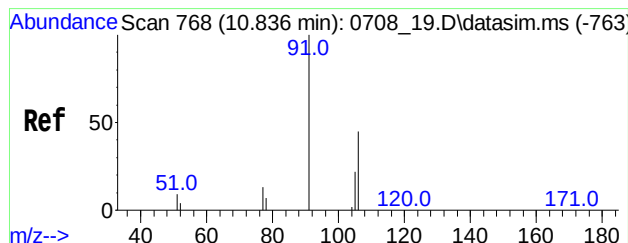
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 6915 |       |       |
| 119     | 90.7  | 85.7 | 128.5 |       |
| 121     | 29.9  | 21.8 | 32.6  |       |



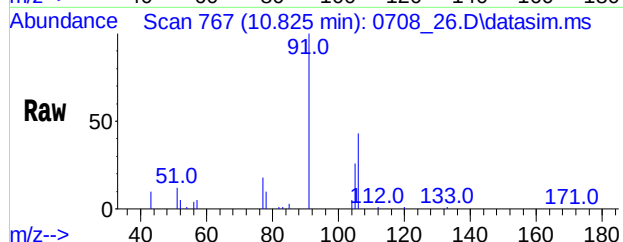
#46  
Tetrachloroethene(sim)  
Conc: 8\$ 0.283 ppbv  
RT: 10.150 min Scan# 700  
Delta R.T. 0.005 min  
Lab File: 0708\_26.D  
Acq: 9 Jul 2020 2:04 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 11545 |       |       |
| 164     | 78.3  | 50.0  | 90.0  |       |
| 129     | 84.3  | 60.3  | 100.3 |       |

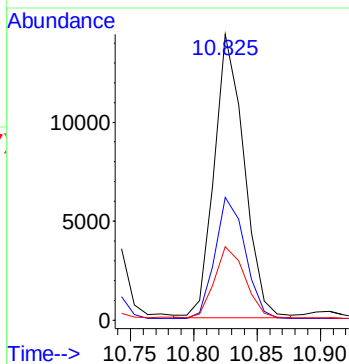
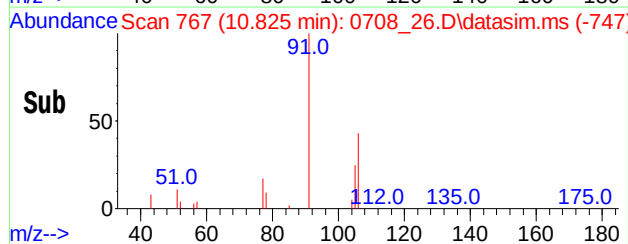




#48  
 m,p-Xylene(sim)  
 Conc: 8\$ 0.255 ppbv  
 RT: 10.825 min Scan# 767  
 Delta R.T. 0.000 min  
 Lab File: 0708\_26.D  
 Acq: 9 Jul 2020 2:04 am



| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 23441 |       |       |
| 106     | 44.0  | 41.1  | 50.3  |       |
| 105     | 26.0  | 21.7  | 32.5  |       |



CONCENTRATION UNITS: (ppbv or ug/m3)      ppbv

FORM I AIR

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Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_27.D  
 Acq On : 9 Jul 2020 2:44 am  
 Operator :  
 Client ID : IA-1 (CALL CENTER)  
 Lab ID : CG29880  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 13 13:59:41 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 6.755  | 130   | 312504   | 10.000   | ng    | 0.01     |
| 15) 1,4-Difluorobenzene       | 7.960  | 114   | 1139858  | 10.000   | ng    | 0.00     |
| 20) Chlorobenzene-d5          | 10.513 | 82    | 684807   | 10.000   | ng    | 0.01     |
| 30) Bromochloromethane(sim)   | 6.760  | 130   | 354945   | 10.000   | ng    | # 0.01   |
| 41) 1,4-Difluorobenzene(sim)  | 7.960  | 114   | 1139610  | 10.000   | ng    | 0.00     |
| 47) Chlorobenzene-d5(sim)     | 10.513 | 82    | 684807   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 25) % Bromofluorobenzene      | 11.353 | 95    | 897231   | 9.542    | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =     | 95.40%   |
| Target Compounds              |        |       |          |          |       |          |
| 2) Dichlorodifluoromethane    | 3.425  | 85    | 125123   | 1.025    | ppbv# | 89       |
| 3) Vinyl Chloride             | 3.748  | 62    | 626      | 0.021    | ppbv  | 79       |
| 4) Acetone                    | 4.697  | 43    | 406309   | 8.532    | ppbv# | 83       |
| 5) Trichlorofluoromethane     | 4.794  | 101   | 887950   | 8.078    | ppbv  | 96       |
| 7) Methylene Chloride         | 5.331  | 49    | 13150    | 0.405    | ppbv  | 95       |
| 13) Benzene                   | 7.760  | 78    | 8208     | 0.086    | ppbv# | 82       |
| 14) Carbon Tetrachloride      | 7.849  | 117   | 6386     | 0.072    | ppbv  | 98       |
| 18) Toluene                   | 9.495  | 91    | 552455   | 5.338    | ppbv  | 97       |
| 19) Tetrachloroethene         | 10.146 | 166   | 8404     | 0.174    | ppbv  | 94       |
| 31) Vinyl Chloride(sim)       | 3.748  | 62    | 626      | 0.018    | ppbv# | 80       |
| 35) Carbon Tetrachloride(sim) | 7.849  | 117   | 6386     | 0.075    | ppbv  | 98       |
| 46) Tetrachloroethene(sim)    | 10.151 | 166   | 11542    | 0.286    | ppbv  | 93       |
| 48) m,p-Xylene(sim)           | 10.826 | 91    | 22457    | 0.246    | ppbv  | 98       |

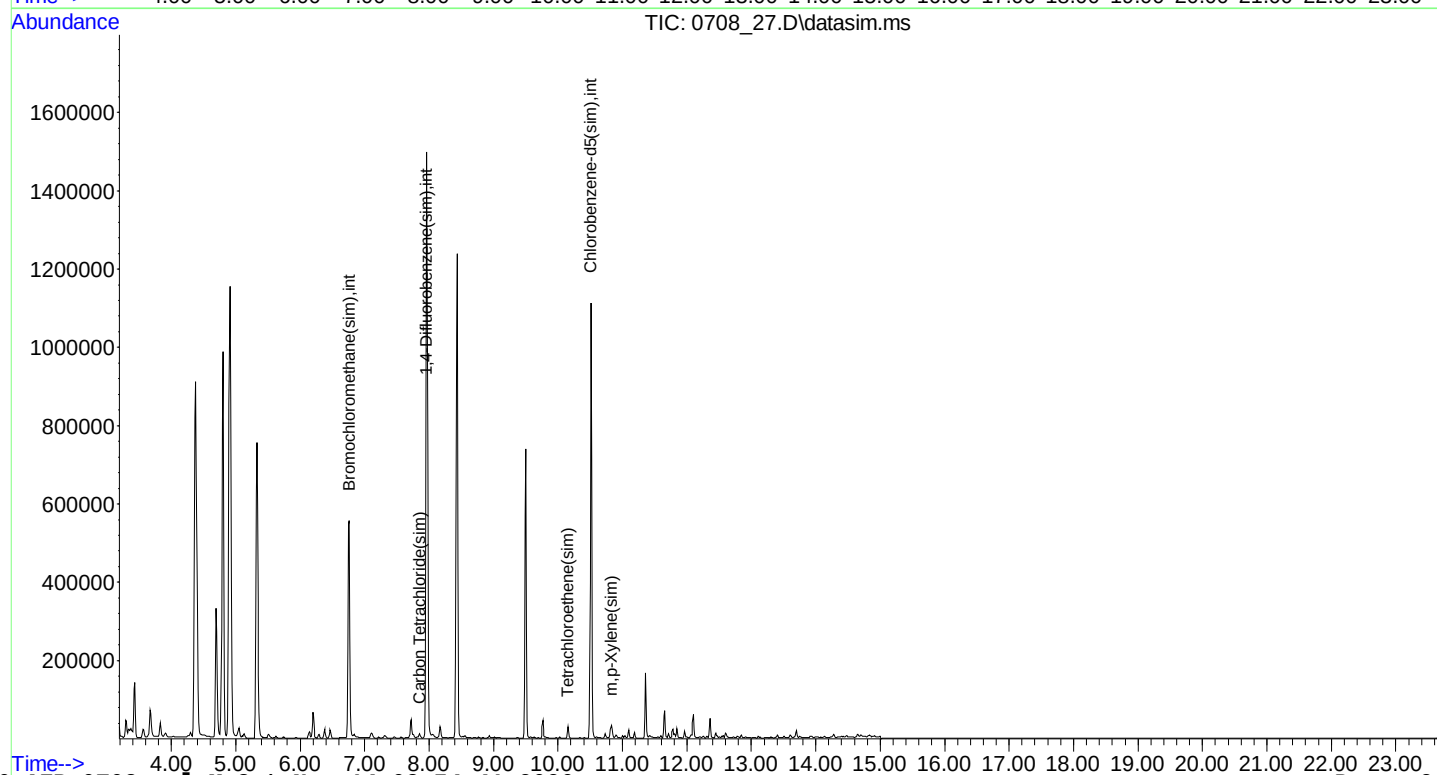
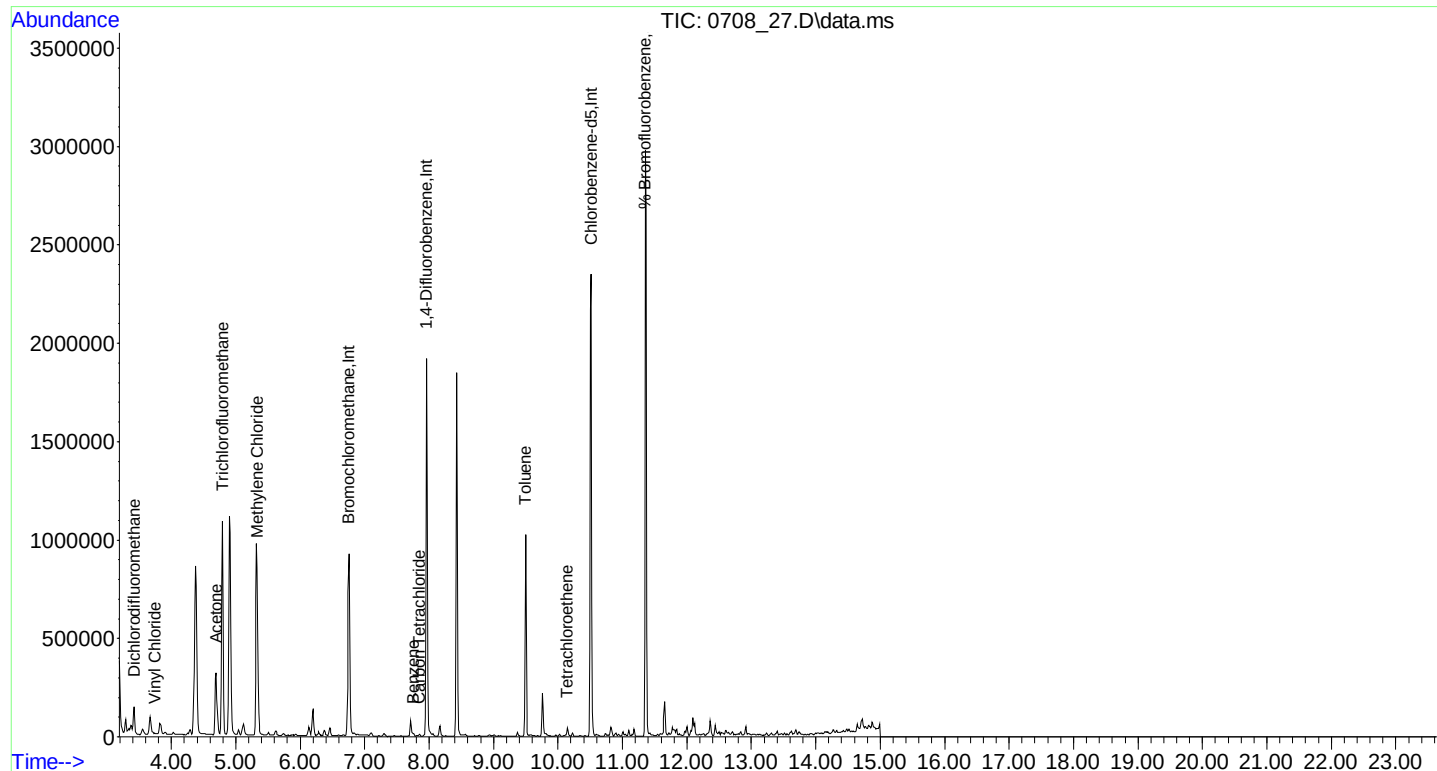
(#)out of range (m>manual integration reviewed by analyst (+)signals summed

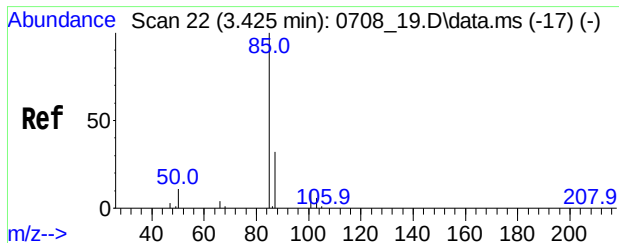


# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_27.D  
 Acq On : 9 Jul 2020 2:44 am  
 Operator :  
 Client ID : IA-1 (CALL CENTER)  
 Lab ID : CG29880  
 ALS Vial : 23 Sample Multiplier: 1

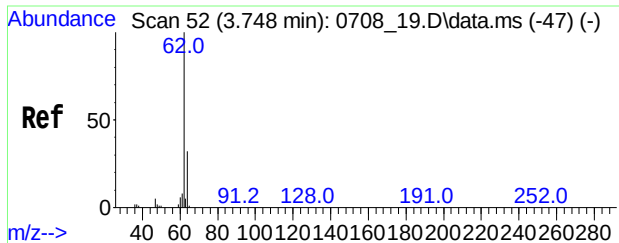
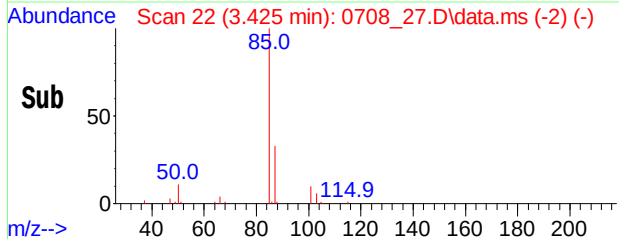
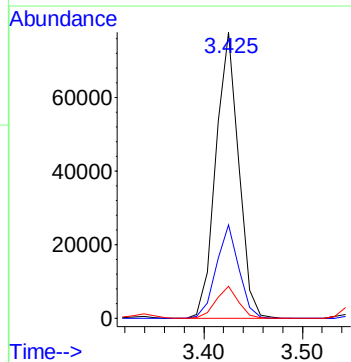
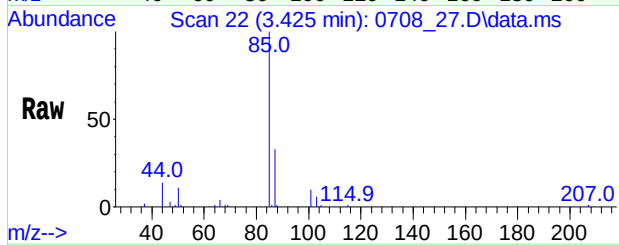
Quant Time: Oct 13 13:59:41 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration





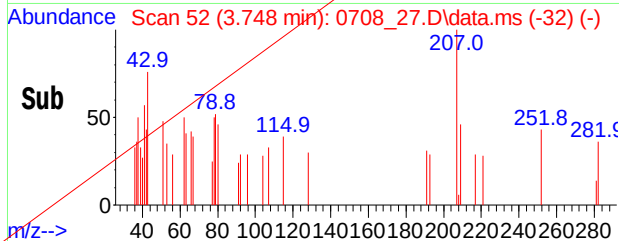
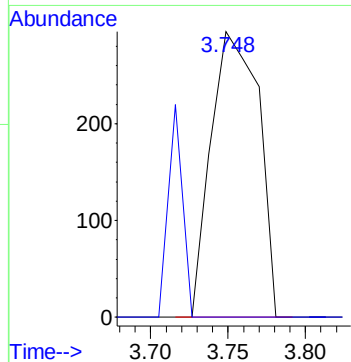
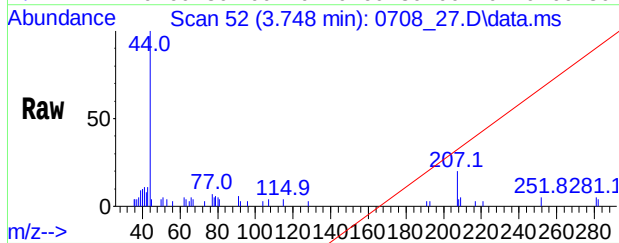
#2  
**Dichlorodifluoromethane**  
 Conc: 8\$ 1.025 ppbv  
 RT: 3.425 min Scan# 22  
 Delta R.T. 0.011 min  
 Lab File: 0708\_27.D  
 Acq: 9 Jul 2020 2:44 am

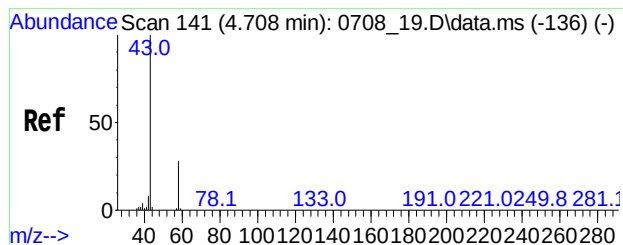
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 85      | 100   | 125123 |       |       |
| 87      | 32.2  | 31.4   | 47.2  |       |
| 50      | 10.9  | 11.8   | 17.8# |       |



#3  
**Vinyl Chloride**  
 Conc: 8\$ Below Cal  
 RT: 3.748 min Scan# 52  
 Delta R.T. 0.010 min  
 Lab File: 0708\_27.D  
 Acq: 9 Jul 2020 2:44 am

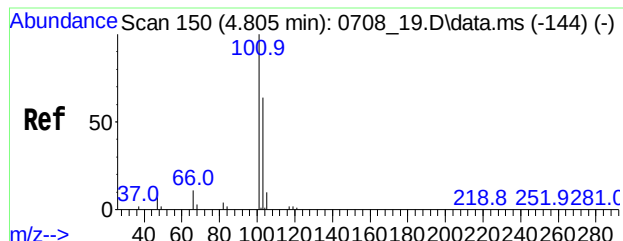
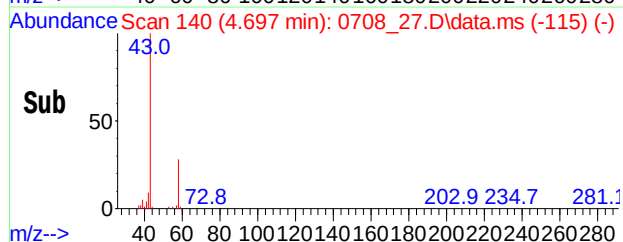
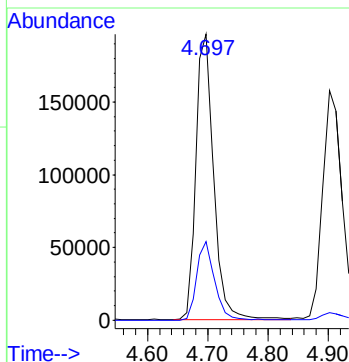
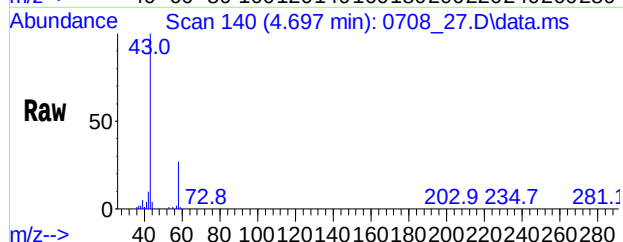
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 62      | 100   | 626  |       |       |
| 64      | 22.7  | 14.9 | 54.9  |       |





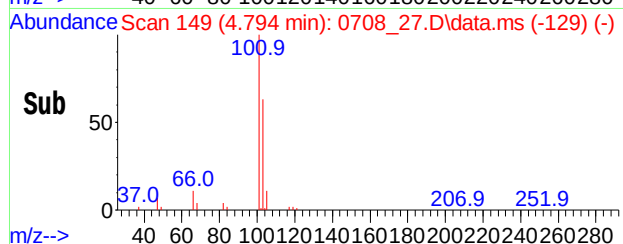
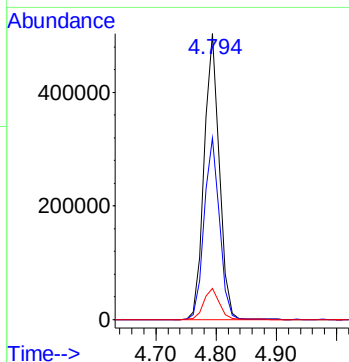
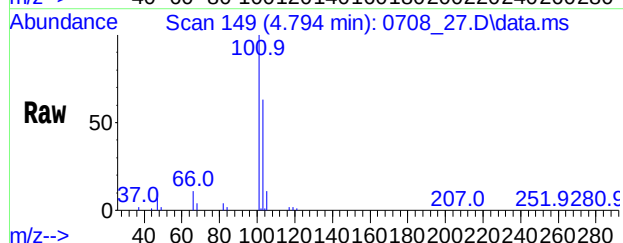
#4  
**Acetone**  
 Conc: 8\$ 8.532 ppbv  
 RT: 4.697 min Scan# 140  
 Delta R.T. -0.032 min  
 Lab File: 0708\_27.D  
 Acq: 9 Jul 2020 2:44 am

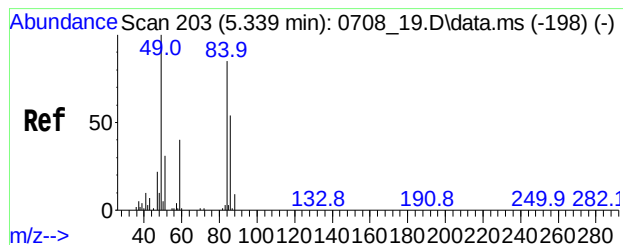
Tgt Ion: 43 Resp: 406309  
 Ion Ratio Lower Upper  
 43 100  
 58 28.0 16.2 24.2#



#5  
**Trichlorofluoromethane**  
 Conc: 8\$ 8.078 ppbv  
 RT: 4.794 min Scan# 149  
 Delta R.T. 0.011 min  
 Lab File: 0708\_27.D  
 Acq: 9 Jul 2020 2:44 am

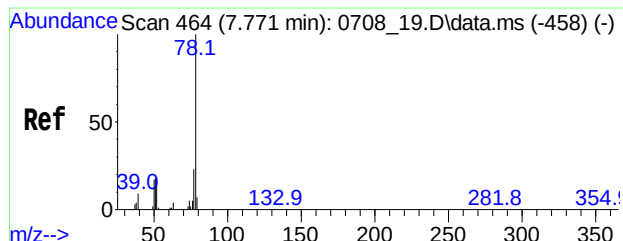
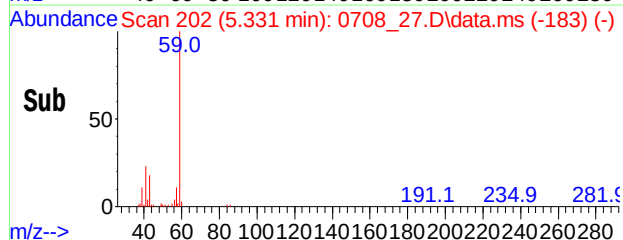
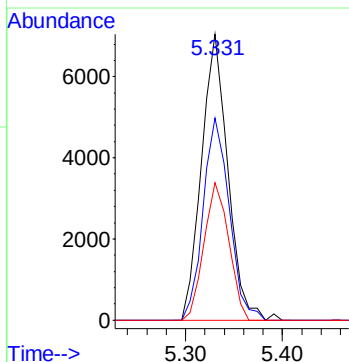
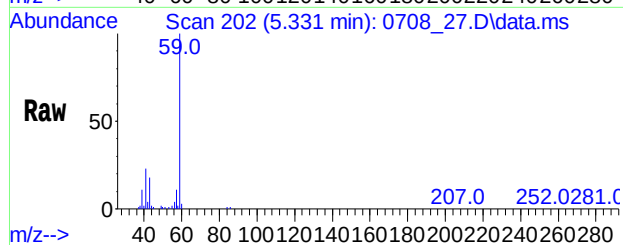
Tgt Ion: 101 Resp: 887950  
 Ion Ratio Lower Upper  
 101 100  
 103 64.3 49.0 73.6  
 66 11.1 10.7 16.1





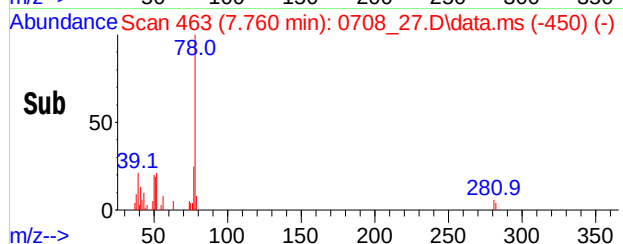
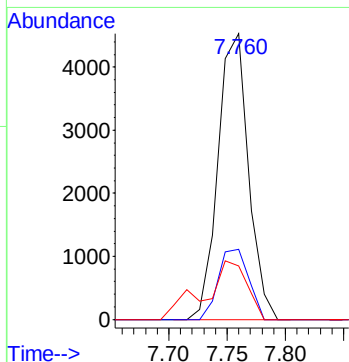
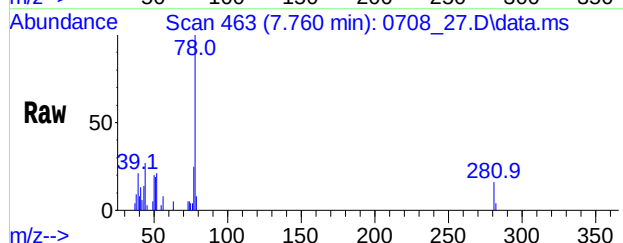
#7  
Methylene Chloride  
Conc: 8\$ 0.405 ppbv  
RT: 5.331 min Scan# 202  
Delta R.T. 0.018 min  
Lab File: 0708\_27.D  
Acq: 9 Jul 2020 2:44 am

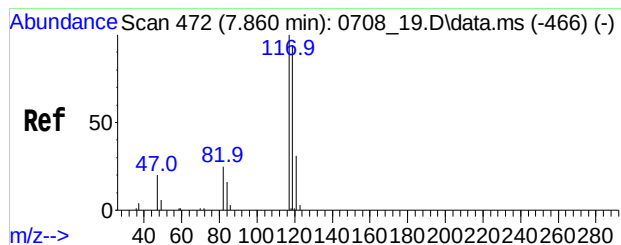
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 49      | 100   | 13150 |       |       |
| 84      | 70.0  | 60.6  | 91.0  |       |
| 86      | 45.0  | 35.4  | 53.2  |       |



#13  
Benzene  
Conc: 8\$ 0.086 ppbv  
RT: 7.760 min Scan# 463  
Delta R.T. 0.014 min  
Lab File: 0708\_27.D  
Acq: 9 Jul 2020 2:44 am

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 78      | 100   | 8208 |       |       |
| 77      | 24.5  | 18.6 | 28.0  |       |
| 51      | 34.0  | 13.9 | 20.9# |       |

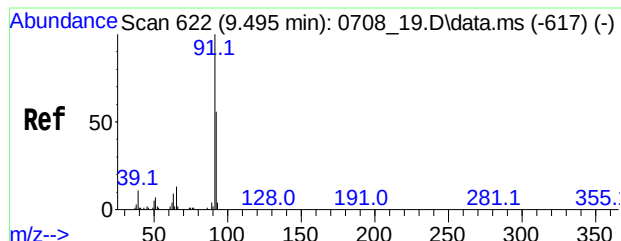
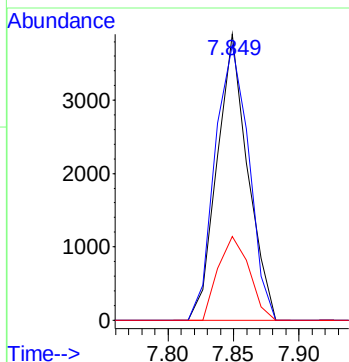
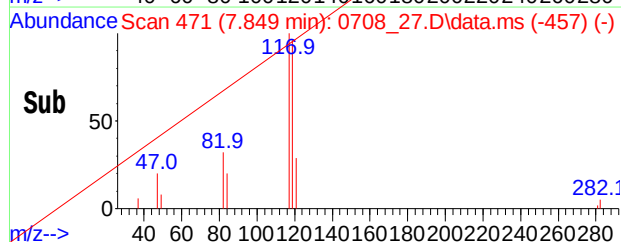




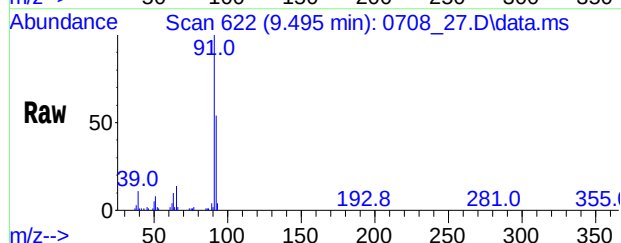
#14  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 7.849 min Scan# 471  
Delta R.T. 0.014 min  
Lab File: 0708\_27.D  
Acq: 9 Jul 2020 2:44 am



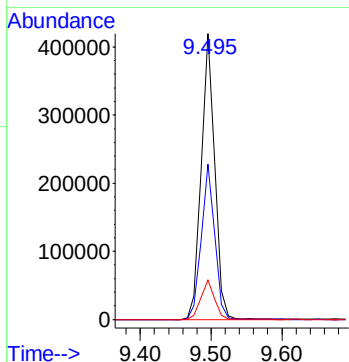
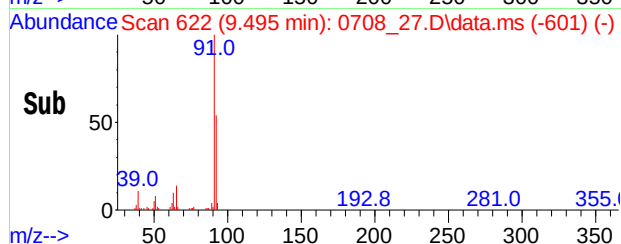
Tgt Ion: 117 Resp: 6386  
Ion Ratio Lower Upper  
117 100  
119 106.0 87.1 127.1  
121 29.7 7.2 47.2

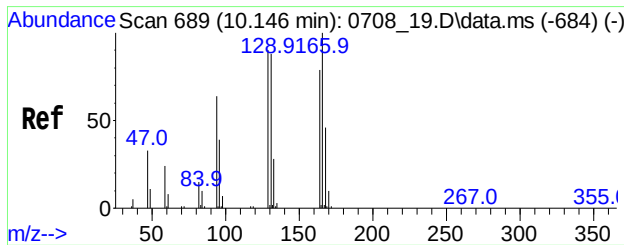


#18  
Toluene  
Conc: 8\$ 5.338 ppbv  
RT: 9.495 min Scan# 622  
Delta R.T. 0.002 min  
Lab File: 0708\_27.D  
Acq: 9 Jul 2020 2:44 am



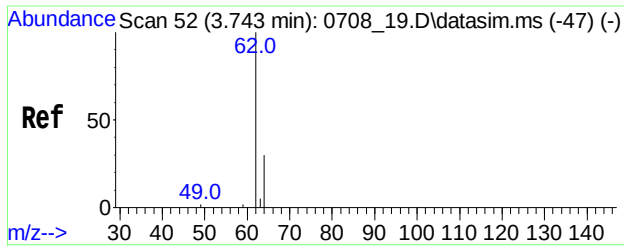
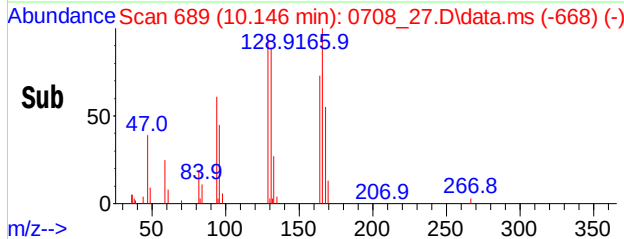
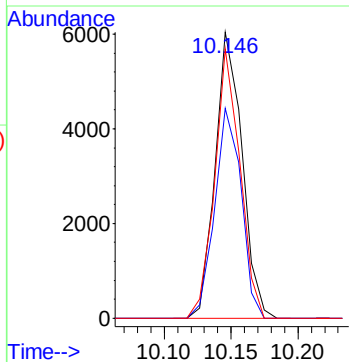
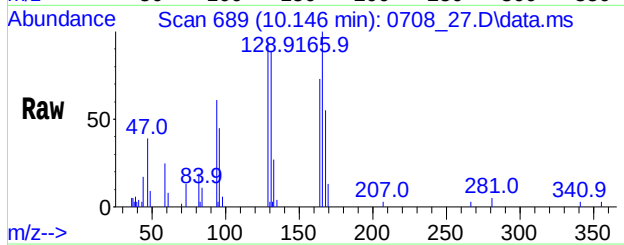
Tgt Ion: 91 Resp: 552455  
Ion Ratio Lower Upper  
91 100  
92 53.9 40.9 61.3  
65 14.0 11.7 17.5





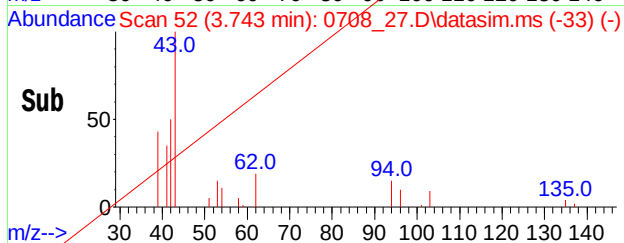
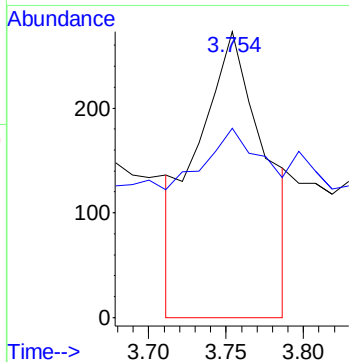
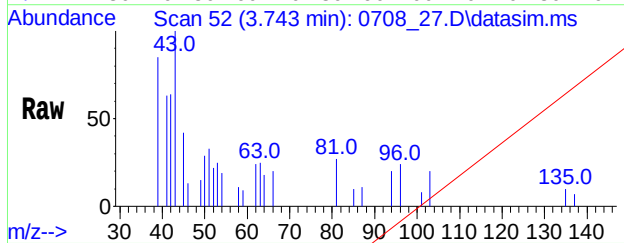
#19  
Tetrachloroethene  
Conc: 8\$ 0.174 ppbv  
RT: 10.146 min Scan# 689  
Delta R.T. 0.001 min  
Lab File: 0708\_27.D  
Acq: 9 Jul 2020 2:44 am

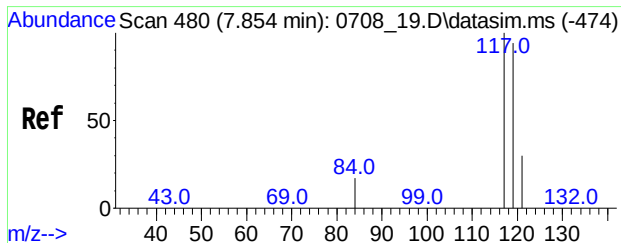
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 166     | 100   | 8404 |       |       |
| 164     | 72.3  | 56.0 | 84.0  |       |
| 129     | 88.6  | 64.2 | 96.4  |       |



#31  
Vinyl Chloride(sim)  
Conc: 8\$ Below Cal  
RT: 3.748 min Scan# 52  
Delta R.T. 0.005 min  
Lab File: 0708\_27.D  
Acq: 9 Jul 2020 2:44 am

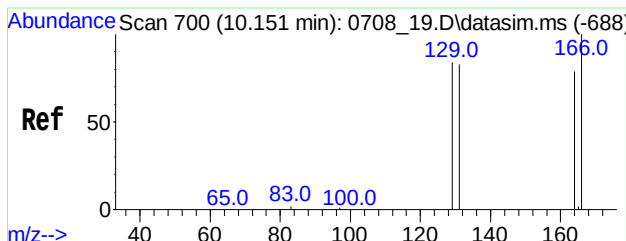
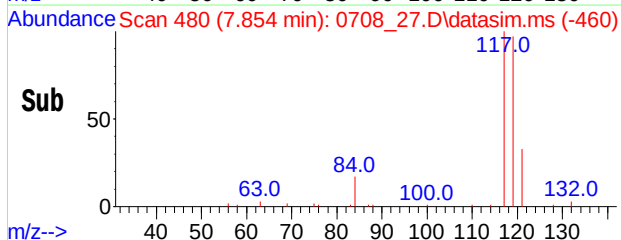
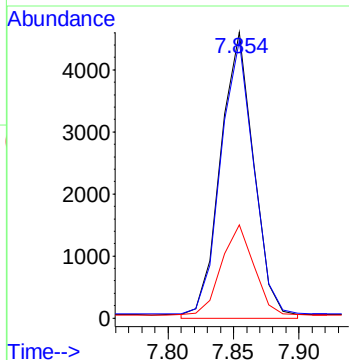
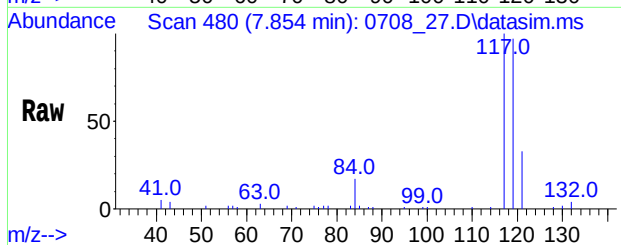
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 62      | 100   | 626  |       |       |
| 64      | 22.7  | 27.4 | 41.0# |       |





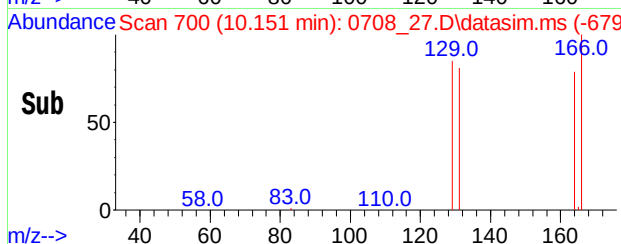
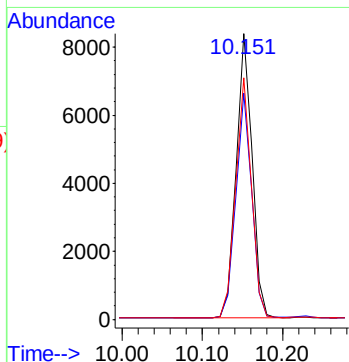
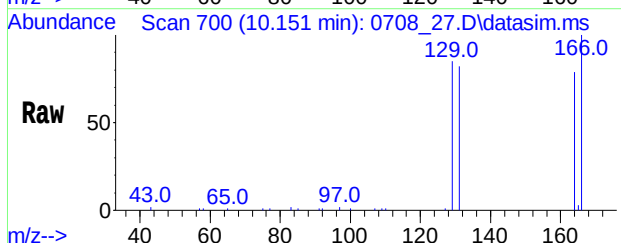
#35  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.075 ppbv  
RT: 7.849 min Scan# 480  
Delta R.T. 0.014 min  
Lab File: 0708\_27.D  
Acq: 9 Jul 2020 2:44 am

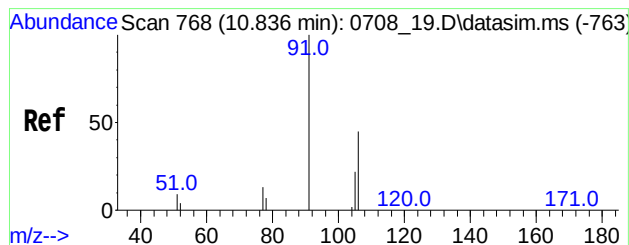
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 6386 |       |       |
| 119     | 106.0 | 85.7 | 128.5 |       |
| 121     | 29.7  | 21.8 | 32.6  |       |



#46  
Tetrachloroethene(sim)  
Conc: 8\$ 0.286 ppbv  
RT: 10.151 min Scan# 700  
Delta R.T. 0.006 min  
Lab File: 0708\_27.D  
Acq: 9 Jul 2020 2:44 am

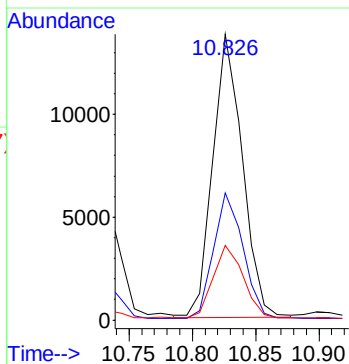
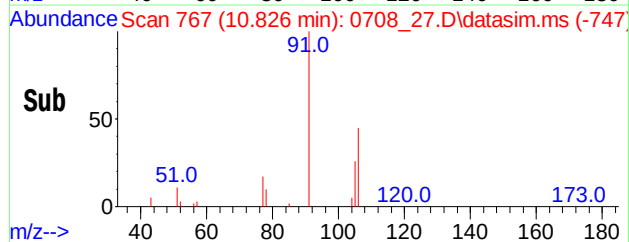
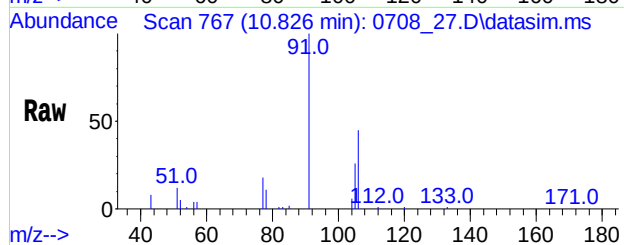
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 11542 |       |       |
| 164     | 78.7  | 50.0  | 90.0  |       |
| 129     | 83.9  | 60.3  | 100.3 |       |





#48  
 m,p-Xylene(sim)  
 Conc: 8\$ 0.246 ppbv  
 RT: 10.826 min Scan# 767  
 Delta R.T. 0.001 min  
 Lab File: 0708\_27.D  
 Acq: 9 Jul 2020 2:44 am

|             |             |
|-------------|-------------|
| Tgt Ion: 91 | Resp: 22457 |
| Ion Ratio   | Lower Upper |
| 91 100      |             |
| 106 44.4    | 41.1 50.3   |
| 105 26.1    | 21.7 32.5   |





|              |               |                  |                   |
|--------------|---------------|------------------|-------------------|
| Client:      | WALDENE-IPARK | Lab:             | Phoenix Env. Labs |
| SDG No.:     | GCG29877      | Lab Sample ID:   | CG29881           |
| Canister:    | 28549         | Lab File ID:     | 0708_28.D         |
| Instrument:  | CHEM20        | Column:          | RTX-1 60M         |
| Purge Volume | 200 (cc)      | Date Received:   | 07/08/20          |
|              |               | Date Analyzed:   | 07/09/20          |
| Matrix:      | AIR           | Dilution Factor: | 1                 |

CONCENTRATION UNITS: (ppbv or ug/m3)      ppbv

[illegible]

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:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_28.D  
 Acq On : 9 Jul 2020 3:25 am  
 Operator :  
 Client ID : AA-1 (CALL CENTER)  
 Lab ID : CG29881  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 13 13:59:45 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration

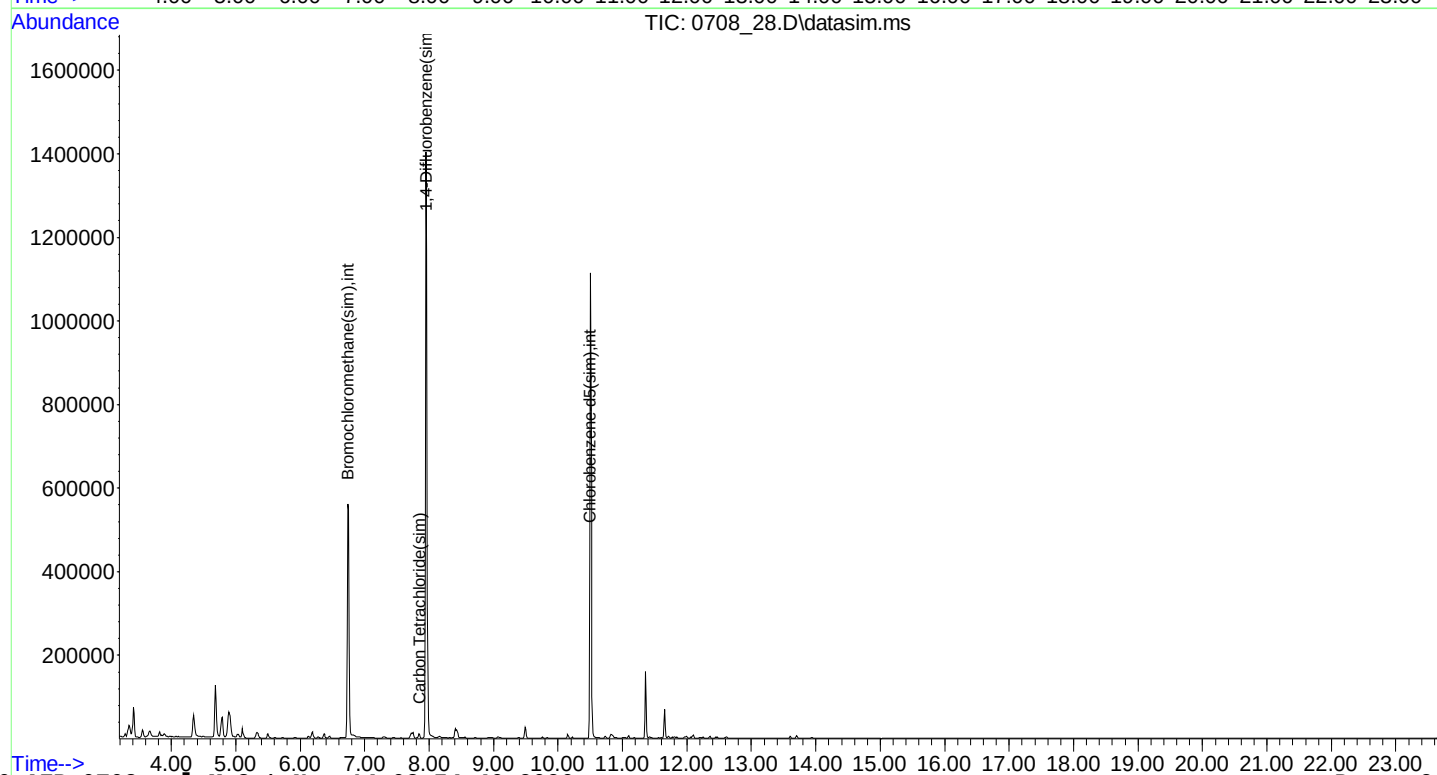
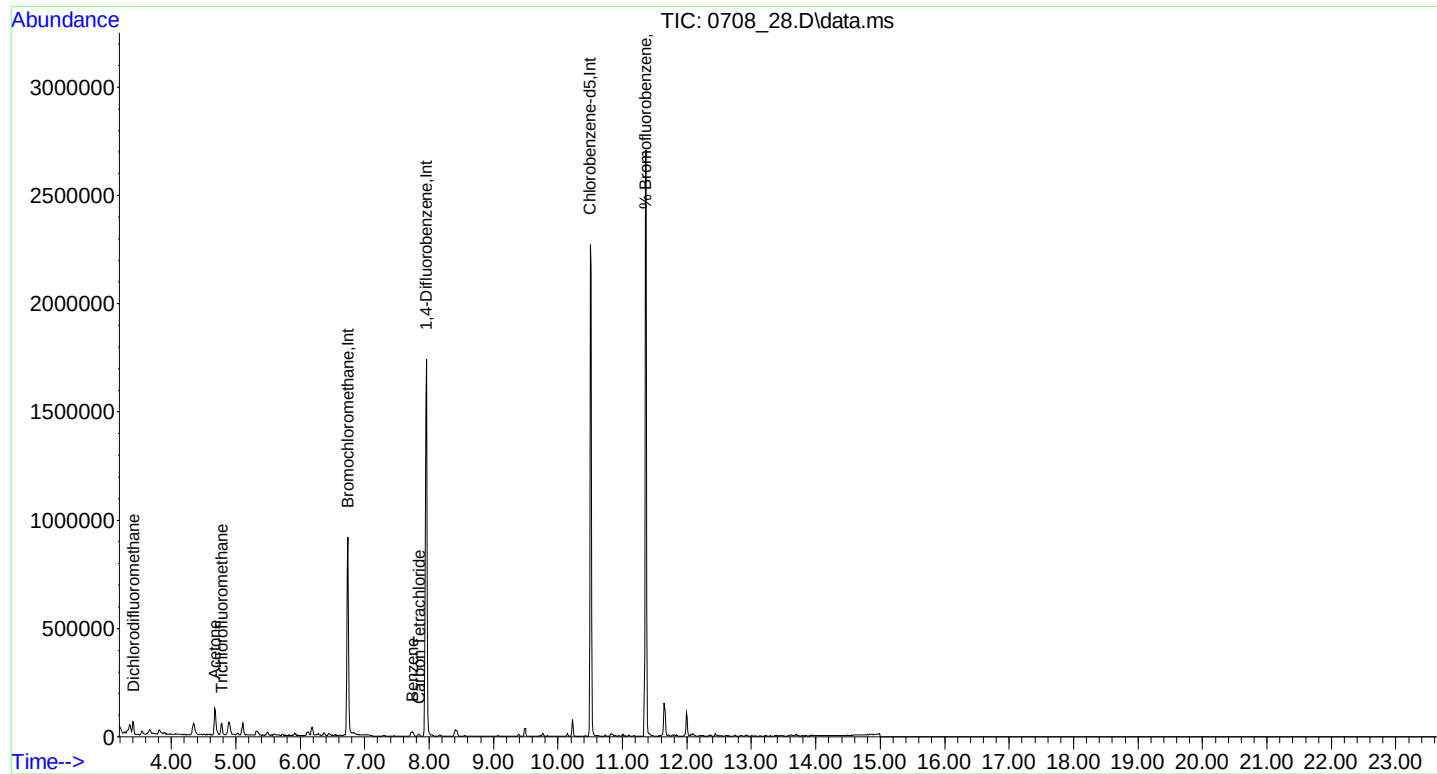
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 6.742  | 130   | 317975   | 10.000   | ng    | 0.00     |
| 15) 1,4-Difluorobenzene       | 7.958  | 114   | 1149823  | 10.000   | ng    | 0.00     |
| 20) Chlorobenzene-d5          | 10.502 | 82    | 672539   | 10.000   | ng    | 0.00     |
| 30) Bromochloromethane(sim)   | 6.747  | 130   | 346823   | 10.000   | ng    | # 0.00   |
| 41) 1,4-Difluorobenzene(sim)  | 7.958  | 114   | 1149210  | 10.000   | ng    | 0.00     |
| 47) Chlorobenzene-d5(sim)     | 10.502 | 82    | 672539   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 25) % Bromofluorobenzene      | 11.363 | 95    | 848567   | 9.189    | ppbv  | 0.01     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =     | 91.90%   |
| Target Compounds              |        |       |          |          |       |          |
| 2) Dichlorodifluoromethane    | 3.414  | 85    | 61458    | 0.495    | ppbv# | 89       |
| 4) Acetone                    | 4.675  | 43    | 146736   | 3.028    | ppbv# | 85       |
| 5) Trichlorofluoromethane     | 4.783  | 101   | 45082    | 0.403    | ppbv  | 93       |
| 13) Benzene                   | 7.746  | 78    | 12297    | 0.126    | ppbv# | 92       |
| 14) Carbon Tetrachloride      | 7.846  | 117   | 6760     | 0.075    | ppbv  | 88       |
| 35) Carbon Tetrachloride(sim) | 7.846  | 117   | 6760     | 0.081    | ppbv  | 88       |

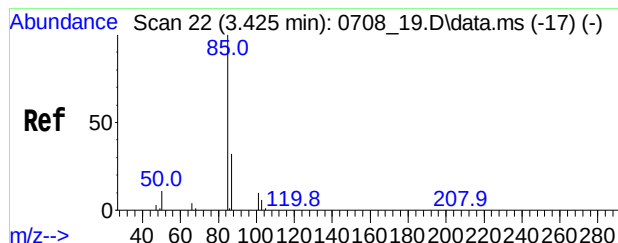
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_28.D  
 Acq On : 9 Jul 2020 3:25 am  
 Operator :  
 Client ID : AA-1 (CALL CENTER)  
 Lab ID : CG29881  
 ALS Vial : 24 Sample Multiplier: 1

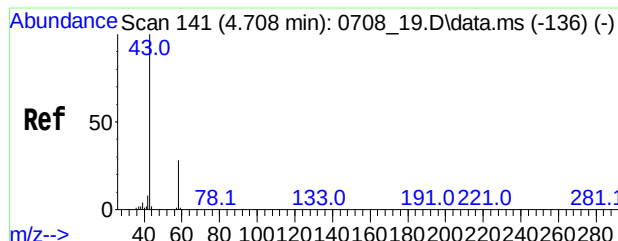
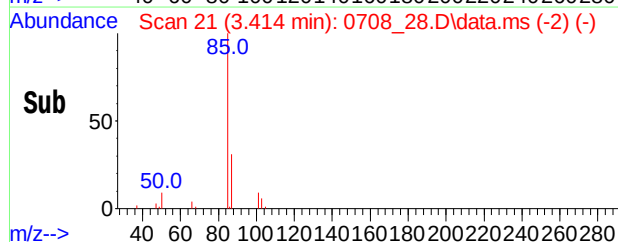
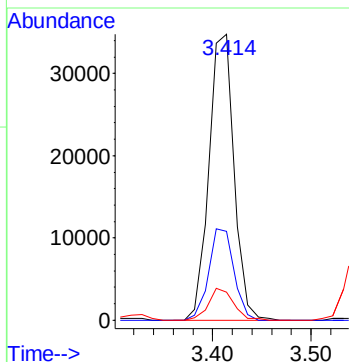
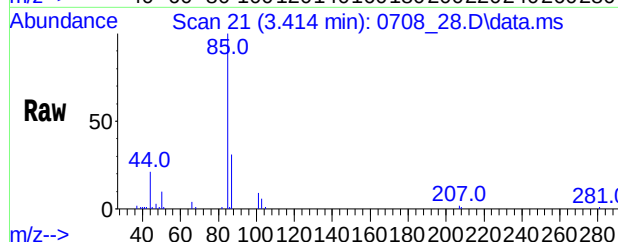
Quant Time: Oct 13 13:59:45 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration





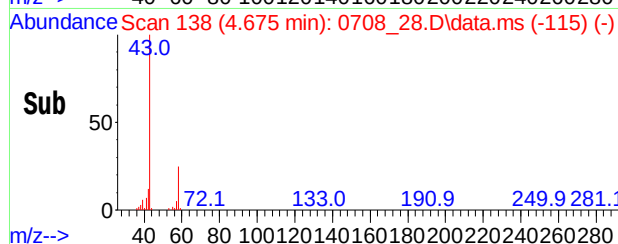
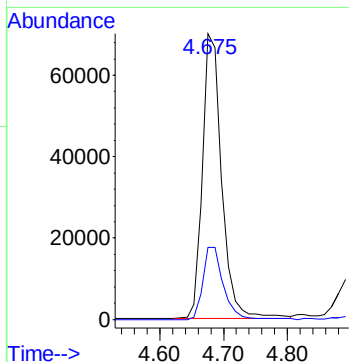
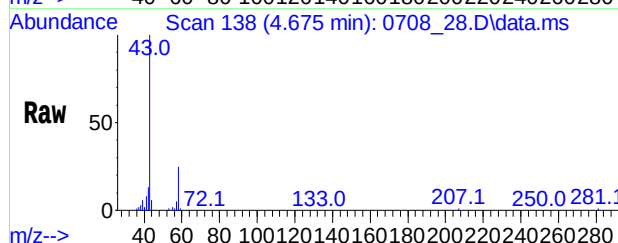
#2  
**Dichlorodifluoromethane**  
 Conc: 8\$ 0.495 ppbv  
 RT: 3.414 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: 0708\_28.D  
 Acq: 9 Jul 2020 3:25 am

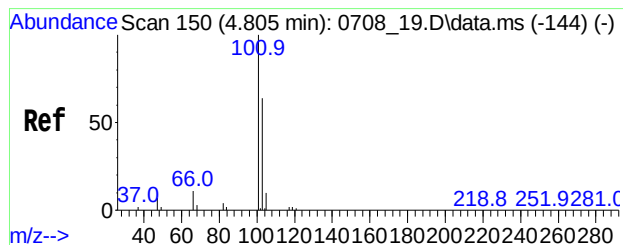
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 85      | 100   | 61458 |       |       |
| 87      | 32.3  | 31.4  | 47.2  |       |
| 50      | 11.1  | 11.8  | 17.8# |       |



#4  
**Acetone**  
 Conc: 8\$ 3.028 ppbv  
 RT: 4.675 min Scan# 138  
 Delta R.T. -0.054 min  
 Lab File: 0708\_28.D  
 Acq: 9 Jul 2020 3:25 am

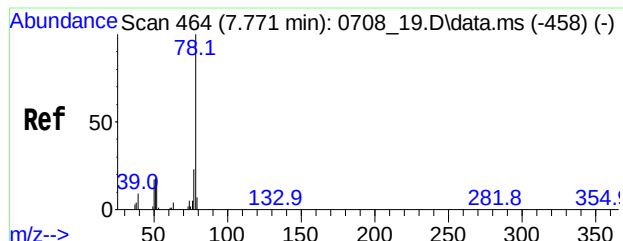
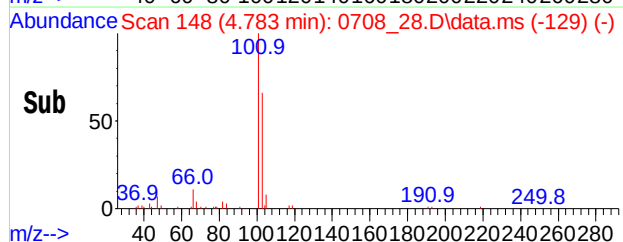
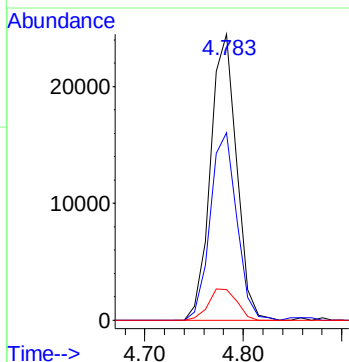
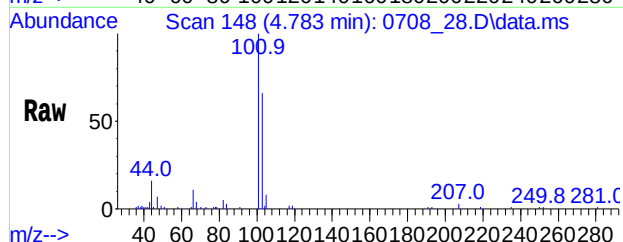
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 43      | 100   | 146736 |       |       |
| 58      | 27.1  | 16.2   | 24.2# |       |





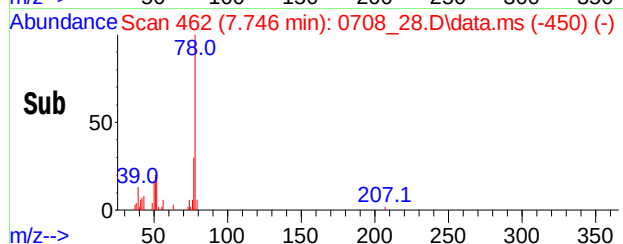
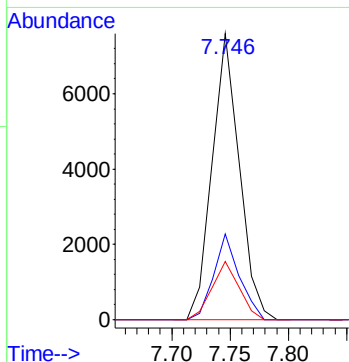
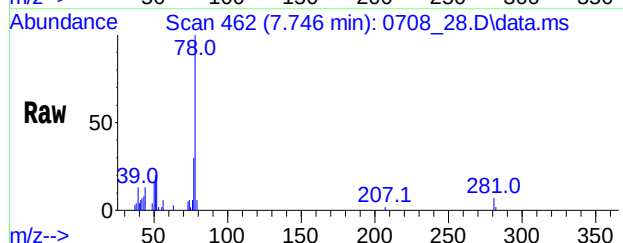
#5  
**Trichlorofluoromethane**  
 Conc: 8\$ 0.403 ppbv  
 RT: 4.783 min Scan# 148  
 Delta R.T. 0.000 min  
 Lab File: 0708\_28.D  
 Acq: 9 Jul 2020 3:25 am

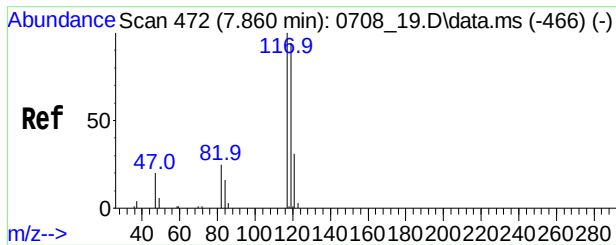
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 101     | 100   | 45082 |       |       |
| 103     | 66.8  | 49.0  | 73.6  |       |
| 66      | 11.9  | 10.7  | 16.1  |       |



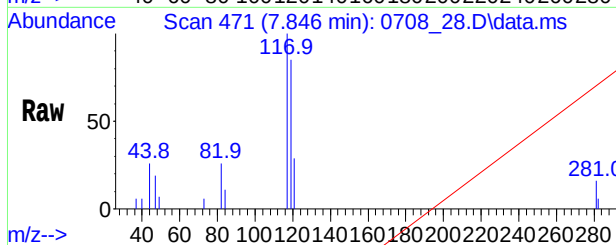
#13  
**Benzene**  
 Conc: 8\$ 0.126 ppbv  
 RT: 7.746 min Scan# 462  
 Delta R.T. -0.000 min  
 Lab File: 0708\_28.D  
 Acq: 9 Jul 2020 3:25 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 78      | 100   | 12297 |       |       |
| 77      | 28.0  | 18.6  | 28.0# |       |
| 51      | 20.2  | 13.9  | 20.9  |       |

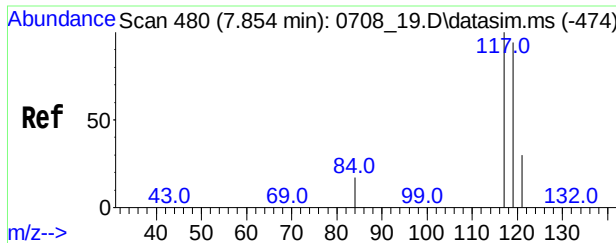
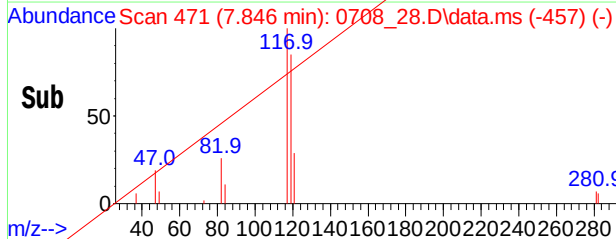
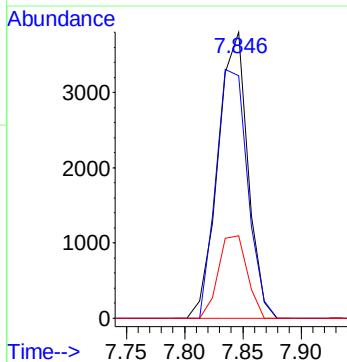




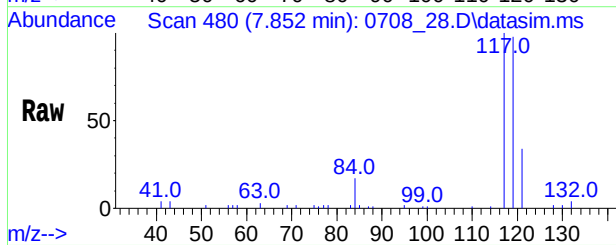
#14  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 7.846 min Scan# 471  
Delta R.T. 0.011 min  
Lab File: 0708\_28.D  
Acq: 9 Jul 2020 3:25 am



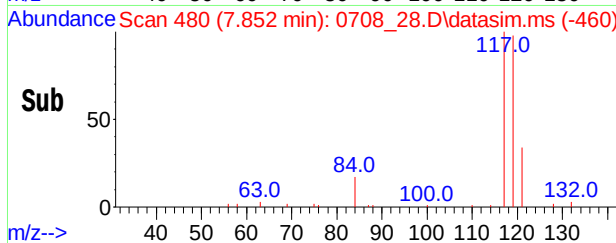
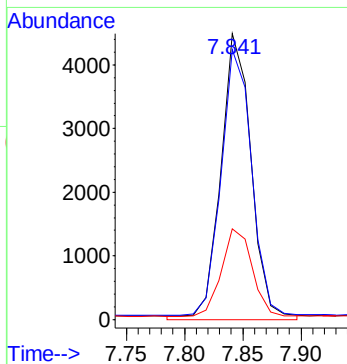
Tgt Ion: 117 Resp: 6760  
Ion Ratio Lower Upper  
117 100  
119 92.2 87.1 127.1  
121 27.7 7.2 47.2



#35  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.081 ppbv  
RT: 7.846 min Scan# 480  
Delta R.T. 0.011 min  
Lab File: 0708\_28.D  
Acq: 9 Jul 2020 3:25 am



Tgt Ion: 117 Resp: 6760  
Ion Ratio Lower Upper  
117 100  
119 92.2 85.7 128.5  
121 27.7 21.8 32.6



|              |               |                  |                   |
|--------------|---------------|------------------|-------------------|
| Client:      | WALDENE-IPARK | Lab:             | Phoenix Env. Labs |
| SDG No.:     | GCG29877      | Lab Sample ID:   | CG29882           |
| Canister:    | 19426         | Lab File ID:     | 0708_29.D         |
| Instrument:  | CHEM20        | Column:          | RTX-1 60M         |
| Purge Volume | 200 (cc)      | Date Received:   | 07/08/20          |
|              |               | Date Analyzed:   | 07/09/20          |
| Matrix:      | AIR           | Dilution Factor: | 1                 |

CONCENTRATION UNITS: (ppbv or ug/m3)                      ppbv

[illegible]

## 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:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_29.D  
 Acq On : 9 Jul 2020 4:04 am  
 Operator :  
 Client ID : IA-2 (CALL CENTER)  
 Lab ID : CG29882  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 13 13:59:48 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|-------|-----------|
| Internal Standards            |        |       |          |          |       |           |
| 1) Bromochloromethane         | 6.752  | 130   | 313063   | 10.000   | ng    | 0.00      |
| 15) 1,4-Difluorobenzene       | 7.969  | 114   | 1142973  | 10.000   | ng    | 0.01      |
| 20) Chlorobenzene-d5          | 10.512 | 82    | 689370   | 10.000   | ng    | 0.00      |
| 30) Bromochloromethane(sim)   | 6.758  | 130   | 353584   | 10.000   | ng    | # 0.01    |
| 41) 1,4-Difluorobenzene(sim)  | 7.969  | 114   | 1142973  | 10.000   | ng    | 0.00      |
| 47) Chlorobenzene-d5(sim)     | 10.512 | 82    | 689370   | 10.000   | ng    | 0.00      |
| System Monitoring Compounds   |        |       |          |          |       |           |
| 25) % Bromofluorobenzene      | 11.362 | 95    | 892092   | 9.424    | ppbv  | 0.01      |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =     | 94.20%    |
| Target Compounds              |        |       |          |          |       |           |
| 2) Dichlorodifluoromethane    | 3.425  | 85    | 120803   | 0.988    | ppbv# | Qvalue 90 |
| 3) Vinyl Chloride             | 3.748  | 62    | 570      | 0.019    | ppbv# | 40        |
| 4) Acetone                    | 4.697  | 43    | 412752   | 8.652    | ppbv# | 85        |
| 5) Trichlorofluoromethane     | 4.794  | 101   | 881374   | 8.004    | ppbv  | 96        |
| 13) Benzene                   | 7.757  | 78    | 7661     | 0.080    | ppbv# | 95        |
| 14) Carbon Tetrachloride      | 7.846  | 117   | 7048     | 0.079    | ppbv  | 91        |
| 18) Toluene                   | 9.494  | 91    | 549981   | 5.299    | ppbv  | 97        |
| 19) Tetrachloroethene         | 10.145 | 166   | 8383     | 0.174    | ppbv# | 85        |
| 23) m,p-Xylene                | 10.829 | 91    | 20905    | 0.146    | ppbv  | 93        |
| 31) Vinyl Chloride(sim)       | 3.748  | 62    | 570      | 0.016    | ppbv# | 40        |
| 35) Carbon Tetrachloride(sim) | 7.846  | 117   | 7048     | 0.083    | ppbv  | 91        |
| 46) Tetrachloroethene(sim)    | 10.150 | 166   | 11327    | 0.280    | ppbv  | 92        |
| 48) m,p-Xylene(sim)           | 10.825 | 91    | 22364    | 0.244    | ppbv  | 98        |

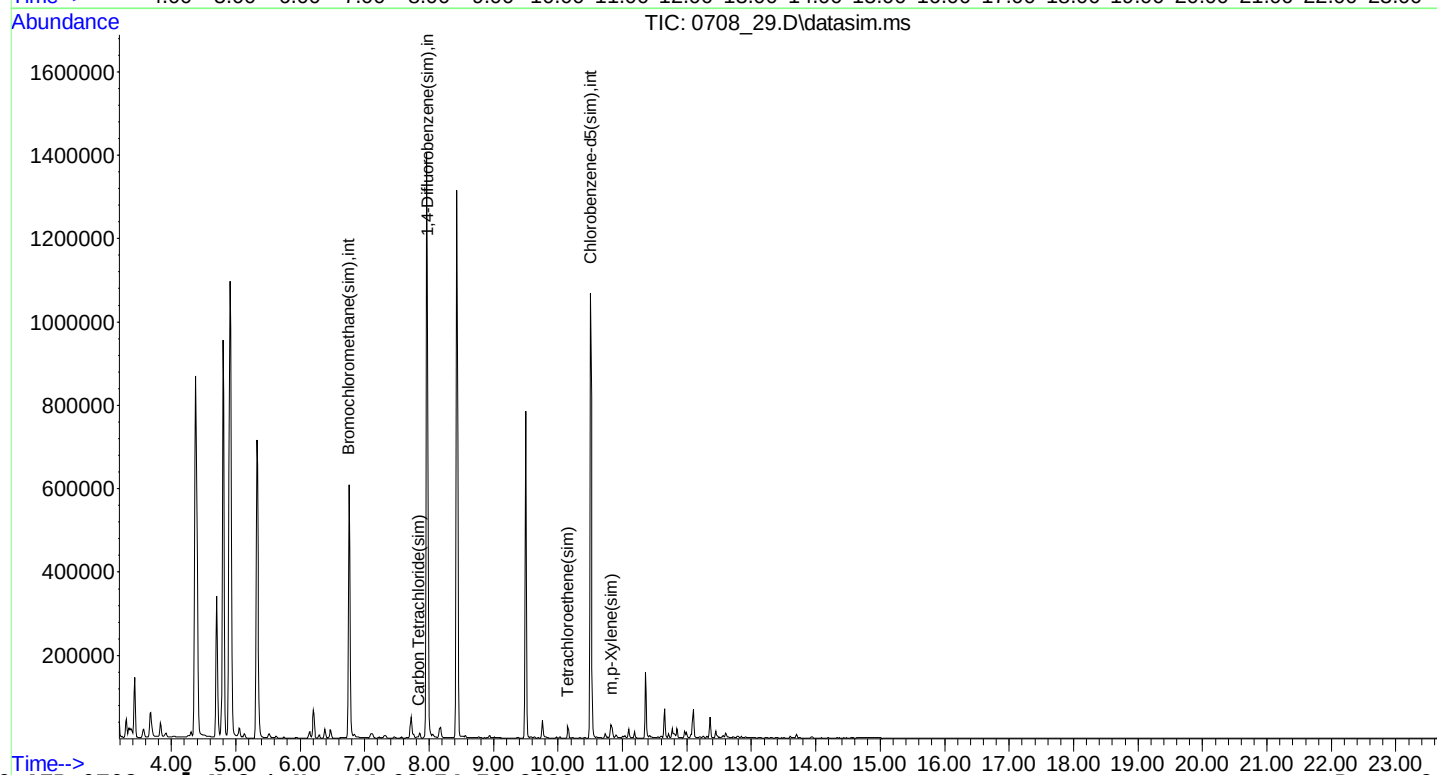
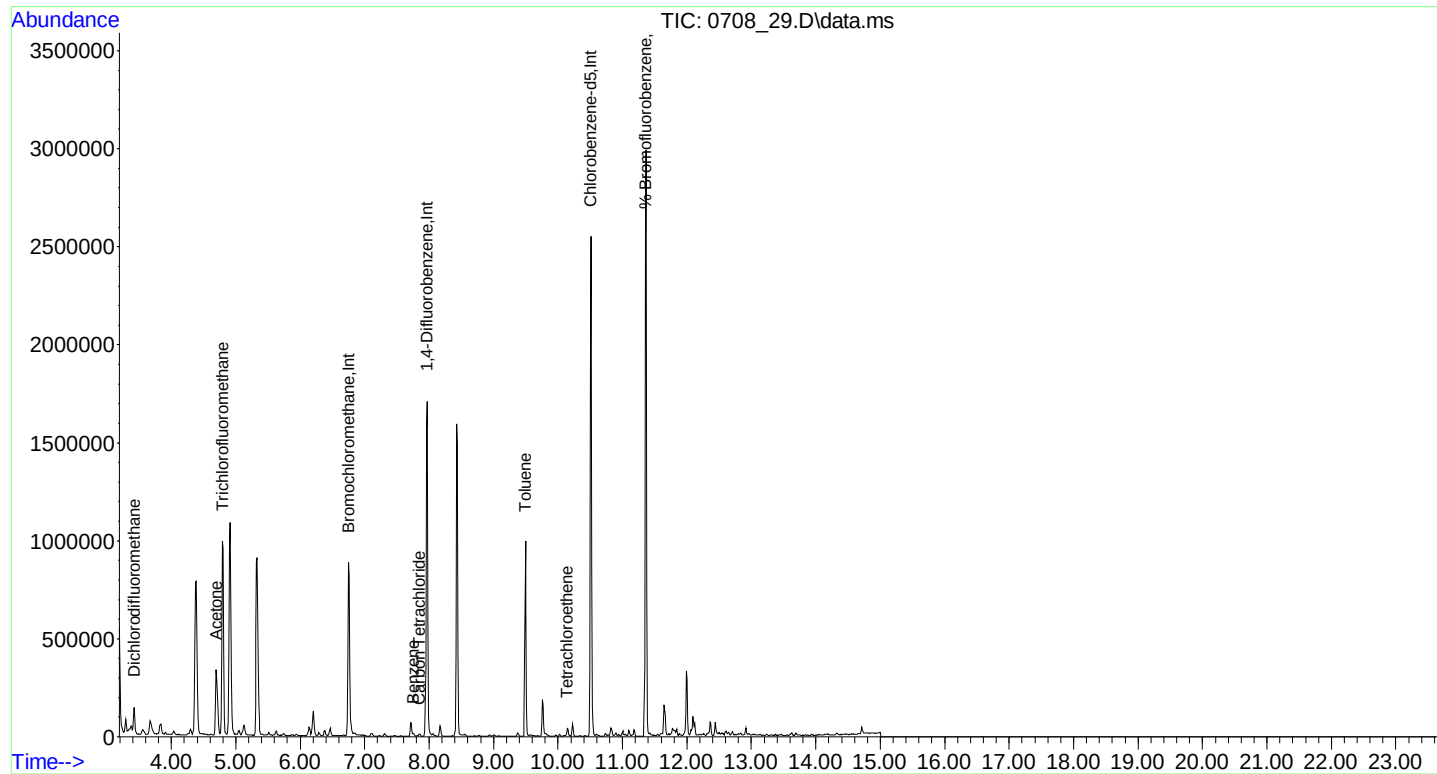
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

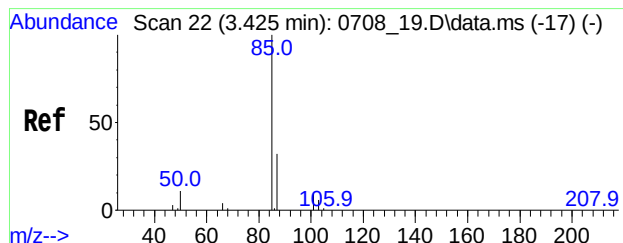


# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_29.D  
 Acq On : 9 Jul 2020 4:04 am  
 Operator :  
 Client ID : IA-2 (CALL CENTER)  
 Lab ID : CG29882  
 ALS Vial : 25 Sample Multiplier: 1

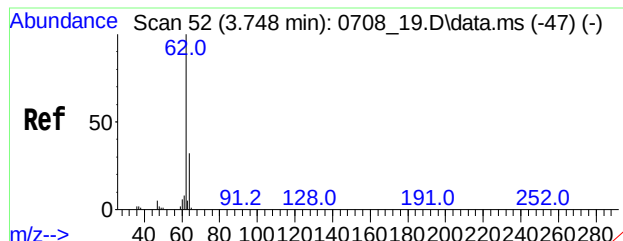
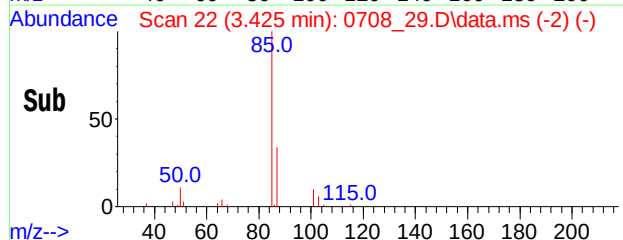
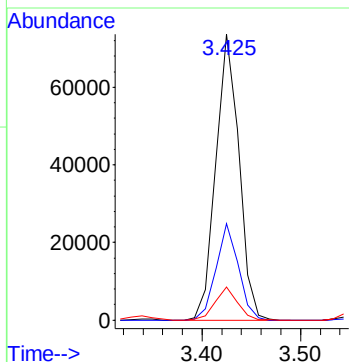
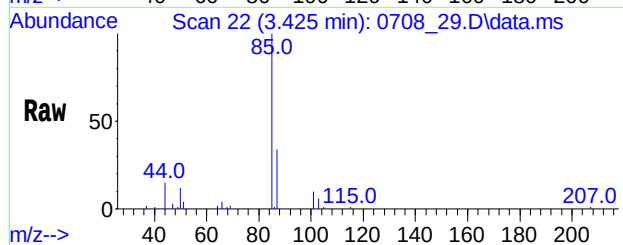
Quant Time: Oct 13 13:59:48 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration





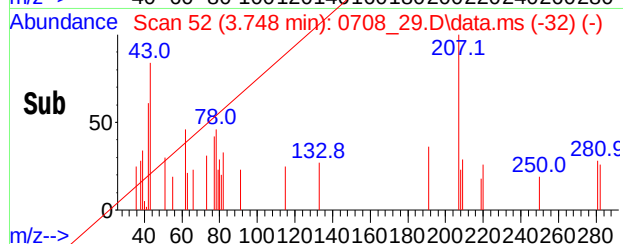
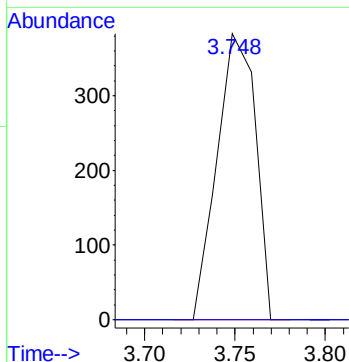
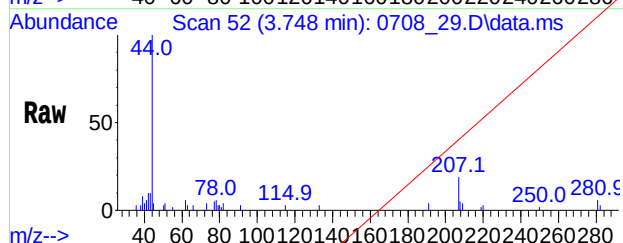
#2  
**Dichlorodifluoromethane**  
 Conc: 8\$ 0.988 ppbv  
 RT: 3.425 min Scan# 22  
 Delta R.T. 0.011 min  
 Lab File: 0708\_29.D  
 Acq: 9 Jul 2020 4:04 am

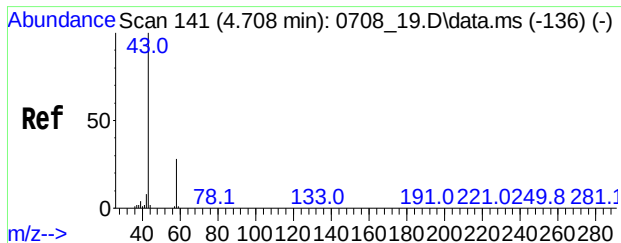
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 85      | 100   | 120803 |       |       |
| 87      | 32.6  | 31.4   | 47.2  |       |
| 50      | 11.3  | 11.8   | 17.8# |       |



#3  
**Vinyl Chloride**  
 Conc: 8\$ Below Cal  
 RT: 3.748 min Scan# 52  
 Delta R.T. 0.010 min  
 Lab File: 0708\_29.D  
 Acq: 9 Jul 2020 4:04 am

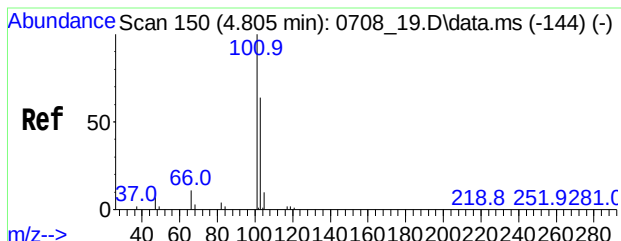
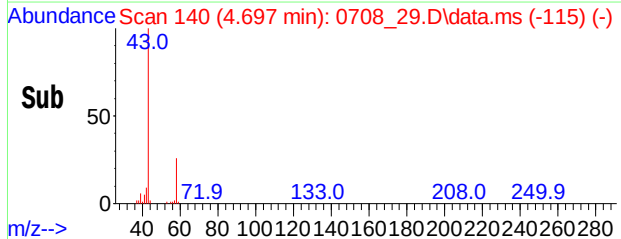
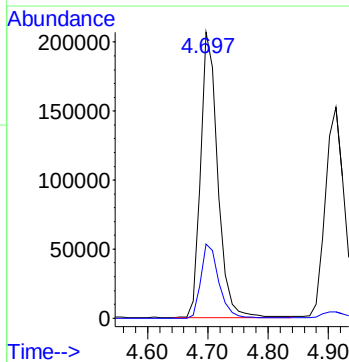
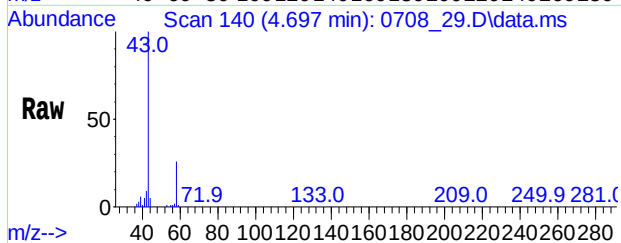
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 62      | 100   | 570  |       |       |
| 64      | 0.0   | 14.9 | 54.9# |       |





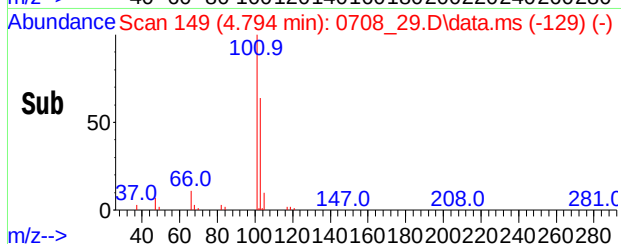
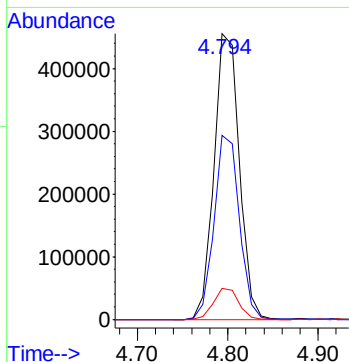
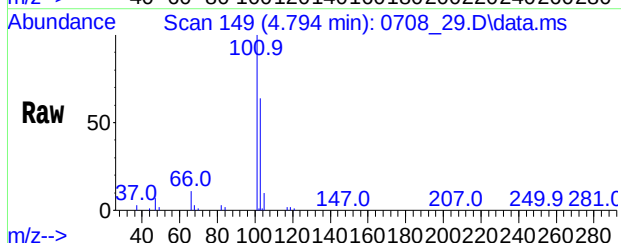
#4  
 Acetone  
 Conc: 8\$ 8.652 ppbv  
 RT: 4.697 min Scan# 140  
 Delta R.T. -0.032 min  
 Lab File: 0708\_29.D  
 Acq: 9 Jul 2020 4:04 am

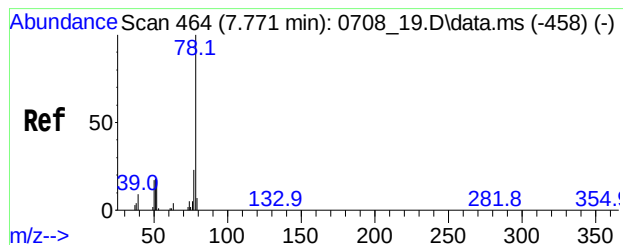
| Tgt Ion | Ratio | Resp   | Upper |
|---------|-------|--------|-------|
| 43      | 100   | 412752 |       |
| 58      | 27.1  | 16.2   | 24.2# |



#5  
 Trichlorofluoromethane  
 Conc: 8\$ 8.004 ppbv  
 RT: 4.794 min Scan# 149  
 Delta R.T. 0.011 min  
 Lab File: 0708\_29.D  
 Acq: 9 Jul 2020 4:04 am

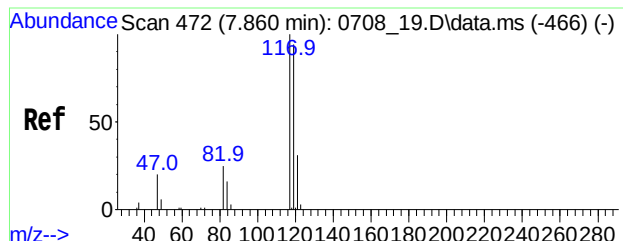
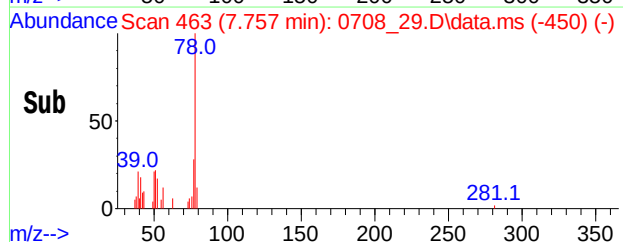
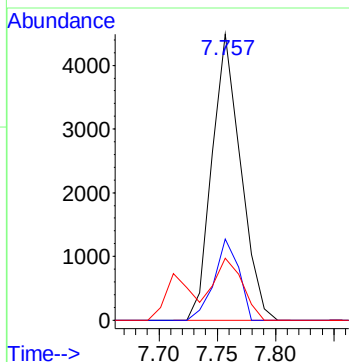
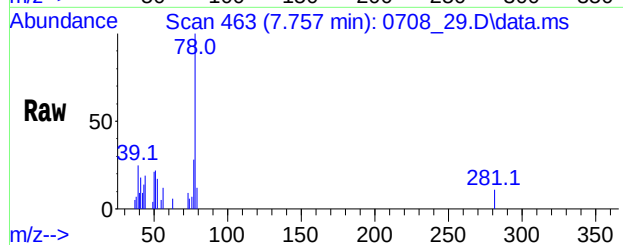
| Tgt Ion | Ratio | Resp   | Upper |
|---------|-------|--------|-------|
| 101     | 100   | 881374 |       |
| 103     | 64.4  | 49.0   | 73.6  |
| 66      | 10.9  | 10.7   | 16.1  |





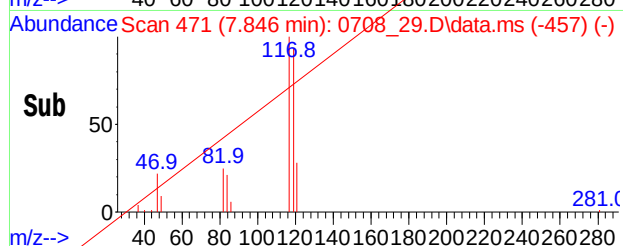
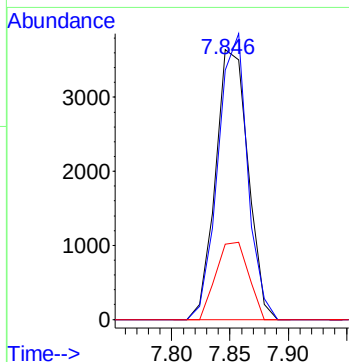
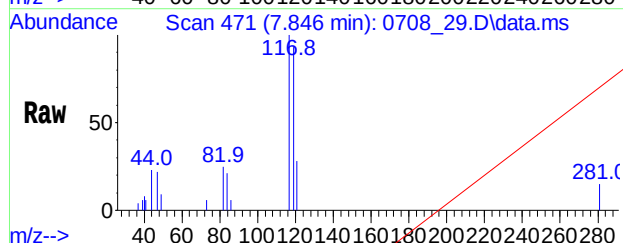
#13  
Benzene  
Conc: 8\$ 0.080 ppbv  
RT: 7.757 min Scan# 463  
Delta R.T. 0.011 min  
Lab File: 0708\_29.D  
Acq: 9 Jul 2020 4:04 am

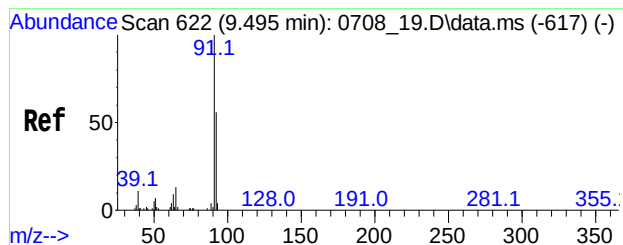
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 78      | 100   | 7661 |       |       |
| 77      | 24.3  | 18.6 |       | 28.0  |
| 51      | 21.6  | 13.9 |       | 20.9# |



#14  
Carbon Tetrachloride  
Conc: 8\$ Below Cal  
RT: 7.846 min Scan# 471  
Delta R.T. 0.011 min  
Lab File: 0708\_29.D  
Acq: 9 Jul 2020 4:04 am

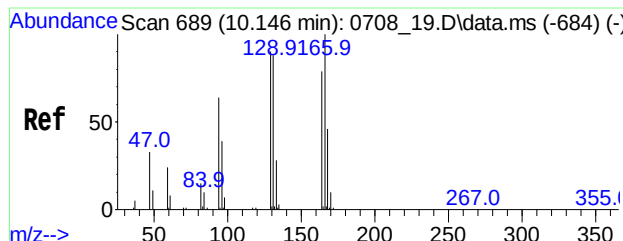
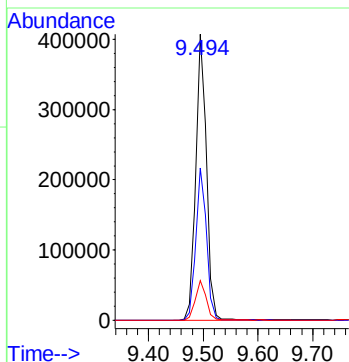
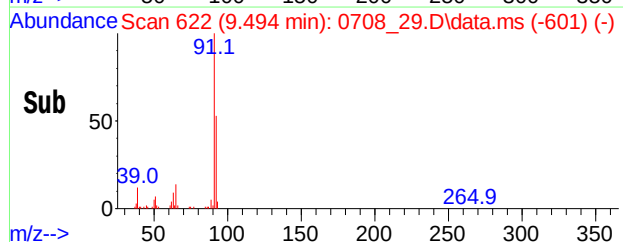
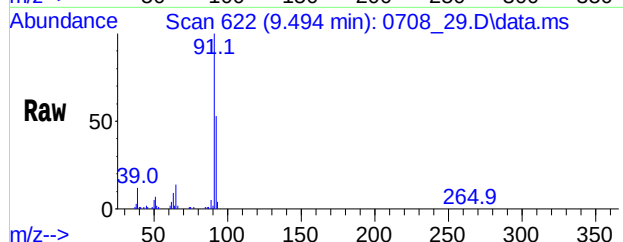
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 7048 |       |       |
| 119     | 96.4  | 87.1 |       | 127.1 |
| 121     | 28.6  | 7.2  |       | 47.2  |





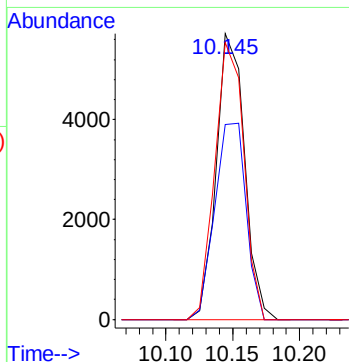
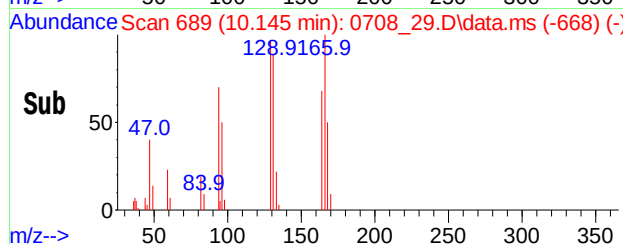
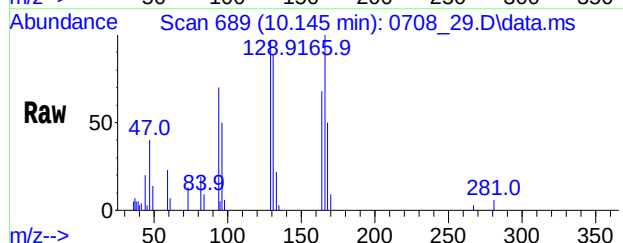
#18  
Toluene  
Conc: 8\$ 5.299 ppbv  
RT: 9.494 min Scan# 622  
Delta R.T. 0.000 min  
Lab File: 0708\_29.D  
Acq: 9 Jul 2020 4:04 am

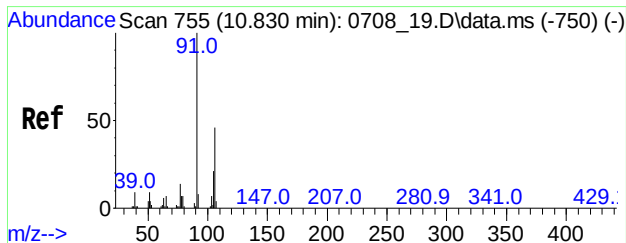
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 549981 |       |       |
| 92      | 53.1  | 40.9   | 61.3  |       |
| 65      | 14.0  | 11.7   | 17.5  |       |



#19  
Tetrachloroethene  
Conc: 8\$ 0.174 ppbv  
RT: 10.145 min Scan# 689  
Delta R.T. -0.000 min  
Lab File: 0708\_29.D  
Acq: 9 Jul 2020 4:04 am

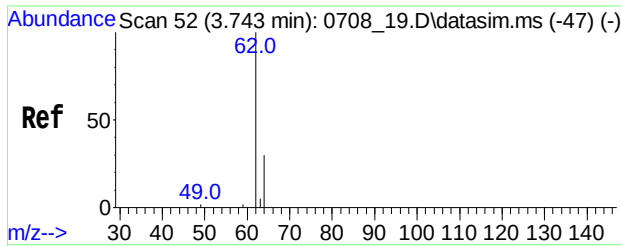
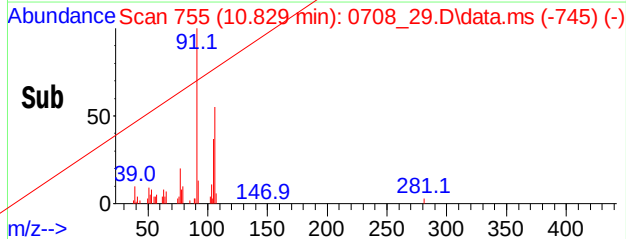
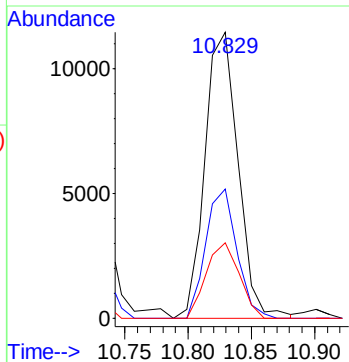
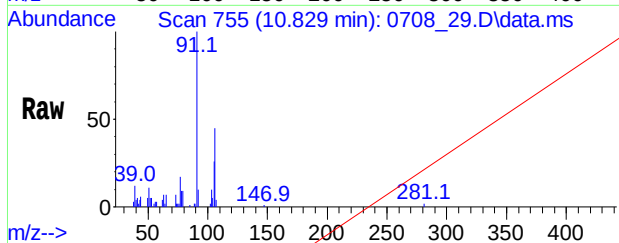
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 166     | 100   | 8383 |       |       |
| 164     | 76.2  | 56.0 | 84.0  |       |
| 129     | 99.3  | 64.2 | 96.4# |       |





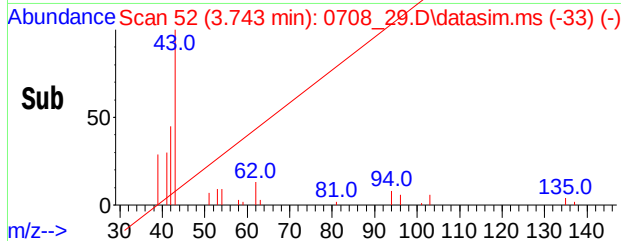
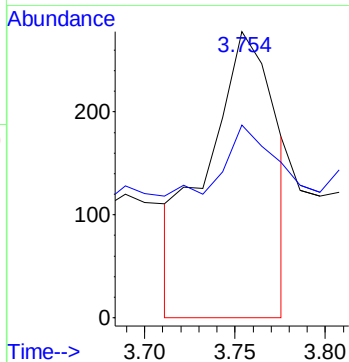
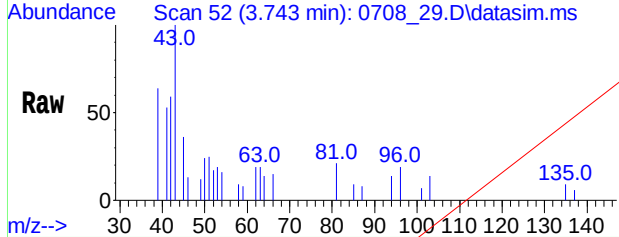
#23  
m,p-Xylene  
Conc: 8\$ Below Cal  
RT: 10.829 min Scan# 755  
Delta R.T. -0.001 min  
Lab File: 0708\_29.D  
Acq: 9 Jul 2020 4:04 am

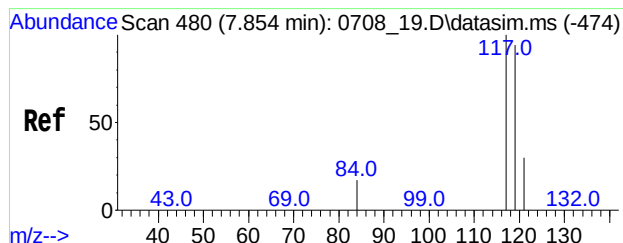
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 20905 |       |       |
| 106     | 42.3  | 30.7  | 46.1  |       |
| 105     | 26.3  | 24.3  | 36.5  |       |



#31  
Vinyl Chloride(sim)  
Conc: 8\$ Below Cal  
RT: 3.748 min Scan# 52  
Delta R.T. 0.005 min  
Lab File: 0708\_29.D  
Acq: 9 Jul 2020 4:04 am

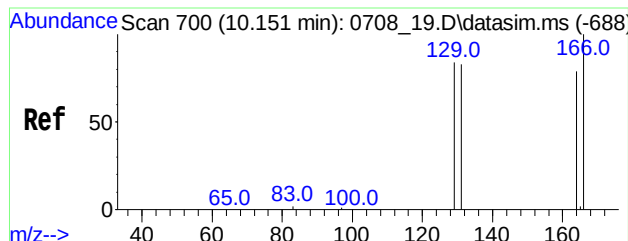
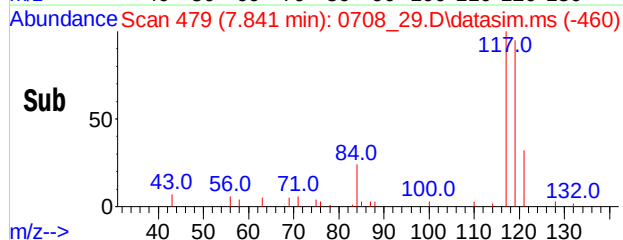
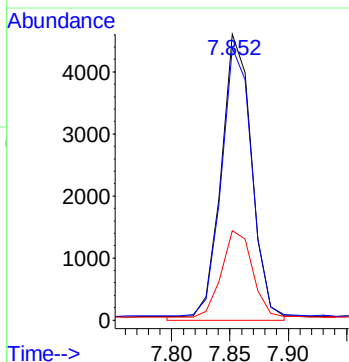
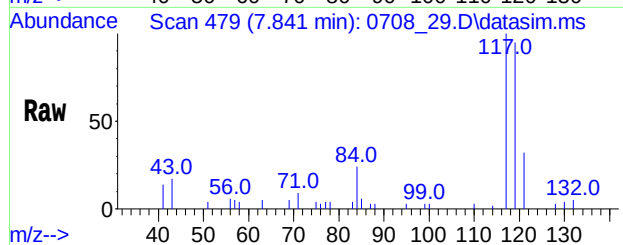
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 62      | 100   | 570  |       |       |
| 64      | 0.0   | 27.4 | 41.0# |       |





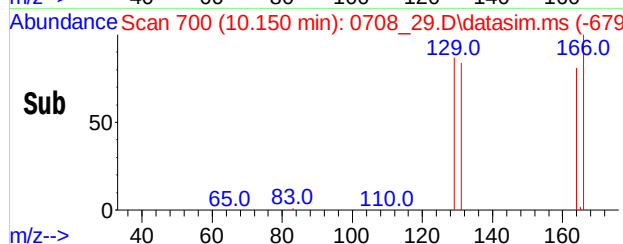
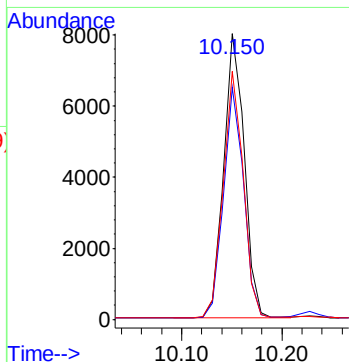
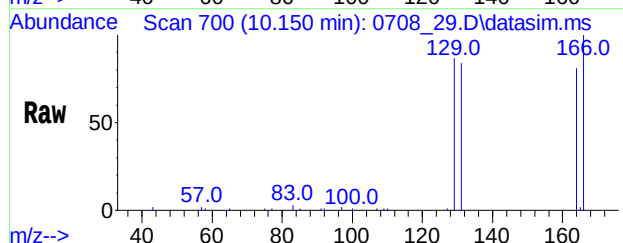
#35  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.083 ppbv  
RT: 7.846 min Scan# 479  
Delta R.T. 0.011 min  
Lab File: 0708\_29.D  
Acq: 9 Jul 2020 4:04 am

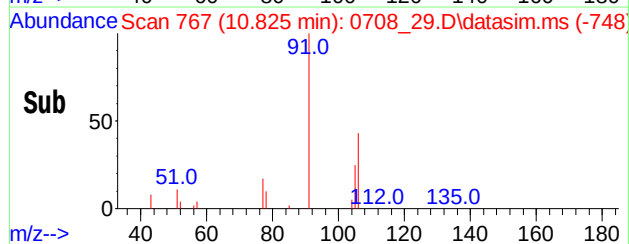
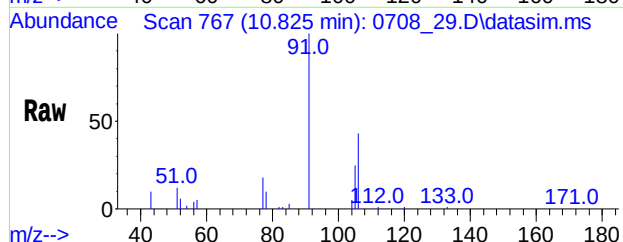
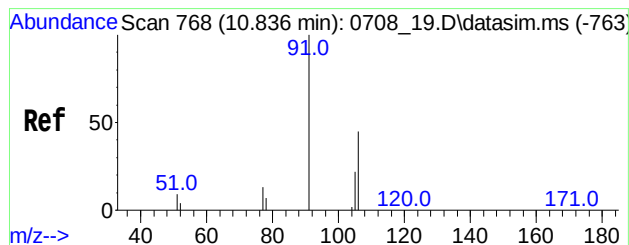
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 7048 |       |       |
| 119     | 96.4  | 85.7 | 128.5 |       |
| 121     | 28.6  | 21.8 | 32.6  |       |



#46  
Tetrachloroethene(sim)  
Conc: 8\$ 0.280 ppbv  
RT: 10.150 min Scan# 700  
Delta R.T. 0.005 min  
Lab File: 0708\_29.D  
Acq: 9 Jul 2020 4:04 am

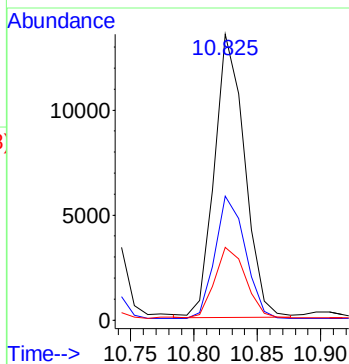
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 11327 |       |       |
| 164     | 79.2  | 50.0  | 90.0  |       |
| 129     | 84.2  | 60.3  | 100.3 |       |





#48  
 m,p-Xylene(sim)  
 Conc: 8\$ 0.244 ppbv  
 RT: 10.825 min Scan# 767  
 Delta R.T. -0.000 min  
 Lab File: 0708\_29.D  
 Acq: 9 Jul 2020 4:04 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 22364 |       |       |
| 106     | 43.9  | 41.1  | 50.3  |       |
| 105     | 26.2  | 21.7  | 32.5  |       |





## Response Factor Report CHEM20

Method Path : H:\AIR2020\CHEM20\METHODS\  
 Method File : 20\_AIR\_0708\_wal.M  
 Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:37:03 2020  
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)

.035=0708\_08.D 0.05=0708\_09.D 0.10=0708\_10.D 0.2=0708\_11.D 0.5=0708\_12.D 1.0=0708\_18.D 2.5=0708\_13.D 5.0=0708\_14.D  
 10=0708\_19.D 25=0708\_15.D 40=0708\_16.D 0.02=0708\_07.D

| Compound |                           | .035           | 0.05  | 0.10  | 0.2   | 0.5   | 1.0   | 2.5   | 5.0   | 10    | 25    | 40    | 0.02  | Avg     | %RSD  |
|----------|---------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|
| 1)       | Int Bromochloromethane    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |         |       |
| 2)       | Dichlorodifluo...         |                |       |       | 3.816 | 3.683 | 3.771 | 3.784 | 4.325 | 3.965 | 4.014 | 3.891 |       | 3.906   | 5.13  |
| 3)       | Vinyl Chloride            |                |       |       | 0.915 | 0.917 | 0.938 | 0.918 | 1.051 | 0.964 | 0.976 | 0.962 |       | 0.955   | 4.74  |
| 4)       | Acetone                   |                |       |       | 1.813 | 1.527 | 1.452 | 1.436 | 1.580 | 1.478 | 1.463 | 1.442 |       | 1.524   | 8.31  |
| 5)       | Trichlorofluor...         |                |       |       | 3.467 | 3.561 | 3.481 | 3.511 | 3.869 | 3.566 | 3.418 | 3.264 |       | 3.517   | 4.88  |
| 6)       | 1,1-Dichloroet...         |                |       |       | 1.625 | 1.591 | 1.593 | 1.575 | 1.789 | 1.674 | 1.637 | 1.613 |       | 1.637   | 4.20  |
| 7)       | Methylene Chlo...         |                |       |       | 1.176 | 1.052 | 1.046 | 0.991 | 1.101 | 1.007 | 0.982 | 0.961 |       | 1.039   | 6.85  |
| 8)       | Trichlorotrifl...         |                |       |       | 2.296 | 2.278 | 2.303 | 2.220 | 2.515 | 2.329 | 2.219 | 2.130 |       | 2.286   | 4.90  |
| 10)      | Cis-1,2-Dichlo...         |                |       |       |       | 1.035 | 1.386 | 1.140 | 1.347 | 1.399 | 1.305 | 1.194 |       | 1.258   | 10.97 |
| 12)      | 1,1,1-Trichlor...         |                |       |       | 2.611 | 2.496 | 2.684 | 2.542 | 2.883 | 2.800 | 2.782 | 2.802 |       | 2.700   | 5.15  |
| 13)      | Benzene                   |                |       |       | 2.638 | 2.576 | 2.916 | 2.864 | 3.399 | 3.338 | 3.377 | 3.387 |       | 3.062   | 11.52 |
| 14)      | Carbon Tetrach...         |                |       |       | 2.612 | 2.622 | 2.735 | 2.607 | 3.026 | 2.998 | 3.025 | 3.066 |       | 2.836   | 7.41  |
| 15)      | Int 1,4-Difluorobenzene   | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |         |       |
| 17)      | Trichloroethene           |                |       |       | 0.305 | 0.331 | 0.334 | 0.354 | 0.412 | 0.405 | 0.387 | 0.366 |       | 0.362   | 10.48 |
| 18)      | Toluene                   |                |       |       | 0.596 | 0.658 | 0.742 | 0.844 | 1.076 | 1.118 | 1.141 | 1.091 |       | 0.908   | 24.69 |
| 19)      | Tetrachloroethene         |                |       |       | 0.353 | 0.355 | 0.374 | 0.387 | 0.449 | 0.469 | 0.495 | 0.498 |       | 0.423   | 14.68 |
| 20)      | Int Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |         |       |
| 21)      | Chlorobenzene             |                |       |       | 1.526 | 1.469 | 1.488 | 1.455 | 1.574 | 1.488 | 1.377 | 1.265 |       | 1.455   | 6.55  |
| 22)      | qfi Ethylbenzene          |                |       |       | 0.108 | 0.282 | 0.650 | 2.020 | 5.212 | 10.66 | 26.30 | 38.96 |       | Coef R2 | 1.00  |
| 23)      | qfi m,p-Xylene            |                |       |       | 0.186 | 0.540 | 1.467 | 4.517 | 10.60 | 21.47 | 52.09 | 77.91 |       | Coef R2 | 1.00  |
| 24)      | qfi o-Xylene              |                |       |       | 0.087 | 0.257 | 0.696 | 2.196 | 5.319 | 10.50 | 26.19 | 38.87 |       | Coef R2 | 1.00  |
| 25)      | Surr% Bromofluorob...     |                |       |       | 1.354 | 1.374 | 1.393 | 1.436 | 1.413 | 1.390 | 1.344 | 1.280 |       | 1.373   | 3.49  |
| 26)      | 1,3-Dichlorobe...         |                |       |       | 1.026 | 1.223 | 1.495 | 1.513 | 1.727 | 1.694 | 1.629 | 1.444 |       | 1.469   | 16.33 |
| 27)      | 1,4-Dichlorobe...         |                |       |       | 0.898 | 1.137 | 1.369 | 1.441 | 1.625 | 1.620 | 1.571 | 1.369 |       | 1.379   | 18.38 |
| 28)      | 1,2-Dichlorobe...         |                |       |       | 0.984 | 1.210 | 1.396 | 1.434 | 1.637 | 1.638 | 1.604 | 1.444 |       | 1.418   | 16.09 |
| 29)      | 1,2,4-Trichlor...         |                |       |       | 0.501 | 0.536 | 0.772 | 0.752 | 0.810 | 0.875 | 0.978 | 0.929 |       | 0.769   | 22.47 |
| 30)      | int Bromochloromethane... | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |         |       |
| 31)      | Vinyl Chloride...         | 1.072          | 1.016 | 0.989 | 0.934 | 0.912 | 0.907 | 0.906 | 1.032 |       |       |       | 1.090 | 0.984   | 7.38  |
| 35)      | Carbon Tetrach...         | 2.528          | 2.266 | 2.440 | 2.384 | 2.378 | 2.405 | 2.311 |       |       |       |       | 2.445 | 2.395   | 3.41  |
| 36)      | 1,1-Dichloroet...         | 1.783          | 1.758 | 1.756 | 1.639 | 1.619 | 1.611 | 1.611 | 1.763 |       |       |       | 1.932 | 1.719   | 6.30  |
| 40)      | Cis-1,2-Dichlo...         | 1.258          | 1.251 | 1.246 | 1.131 | 1.068 | 1.131 | 1.072 | 1.204 |       |       |       | 1.342 | 1.189   | 7.89  |
| 41)      | int 1,4-Difluorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |         |       |
| 44)      | Trichloroethen...         | 0.344          | 0.302 | 0.321 | 0.265 | 0.285 | 0.291 | 0.308 | 0.359 |       |       |       | 0.447 | 0.325   | 16.71 |
| 46)      | Tetrachloroeth...         | 0.338          | 0.378 | 0.331 | 0.307 | 0.305 | 0.326 | 0.337 | 0.392 | 0.406 |       |       | 0.422 | 0.354   | 11.80 |
| 47)      | int Chlorobenzene-d5(sim) | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |         |       |
| 48)      | qfi m,p-Xylene(sim)       | 0.055          | 0.077 | 0.151 | 0.298 | 0.864 | 2.104 | 5.253 | 9.908 |       |       |       |       | Coef R2 | 1.00  |
| 50)      | qfi 1,4-Dichlorobe...     | 0.027          | 0.035 | 0.072 | 0.156 | 0.480 | 1.099 | 2.528 | 4.979 |       |       |       | 0.020 | Coef R2 | 1.00  |

# Response Factor Report CHEM20

Method Path : H:\AIR2020\CHEM20\METHODS\  
Method File : 20\_AIR\_0708\_wal.M  
Title : VOA Standards for 5 point calibration

-----  
(#,\$,@)=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: CHEM20  
Heated Purge (Y/N): Y  
GC Column: RTX-1 60M

Client: WALDENE-IPARK  
SDG No.: GCG29877  
Calibration Date From: 07/08/20 16:41  
Calibration Date Thru: 07/08/20 21:38  
Method File: 20\_AIR\_0708\_wal.M

Laboratory File Ids

| RRF1                      | 0708_07.D | RRF2         | 0708_08.D     | RRF3         | 0708_09.D   | RRF4        | 0708_10.D   | RRF5      | 0708_11.D   | RRF6      | 0708_12.D   | RRF7        | 0708_18.D   | RRF8     | 0708_13.D | RRF9 | 0708_14.D | RRF10 | 0708_19.D | RRF11 | 0708_15.D | RRF12 | 0708_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  |      |           |       |           |       |           |       |           |  |  |
| Dichlorodifluoromethane   |           |              |               |              |             | 3.816       | 3.683       | 3.771     | 3.784       | 4.325     | 3.965       | 4.014       | 3.891       | 3.906    | 5.13      |      |           |       |           |       |           |       |           |  |  |
| Vinyl Chloride            |           |              |               |              |             | 0.915       | 0.917       | 0.938     | 0.918       | 1.051     | 0.964       | 0.976       | 0.962       | 0.955    | 4.74      |      |           |       |           |       |           |       |           |  |  |
| Acetone                   |           |              |               |              |             | 1.813       | 1.527       | 1.452     | 1.436       | 1.580     | 1.478       | 1.463       | 1.442       | 1.524    | 8.31      |      |           |       |           |       |           |       |           |  |  |
| Trichlorofluoromethane    |           |              |               |              |             | 3.467       | 3.561       | 3.481     | 3.511       | 3.869     | 3.566       | 3.418       | 3.264       | 3.517    | 4.88      |      |           |       |           |       |           |       |           |  |  |
| 1,1-Dichloroethene        |           |              |               |              |             | 1.625       | 1.591       | 1.593     | 1.575       | 1.789     | 1.674       | 1.637       | 1.613       | 1.637    | 4.20      |      |           |       |           |       |           |       |           |  |  |
| Methylene Chloride        |           |              |               |              |             | 1.176       | 1.052       | 1.046     | 0.991       | 1.101     | 1.007       | 0.982       | 0.961       | 1.039    | 6.85      |      |           |       |           |       |           |       |           |  |  |
| Trichlorotrifluoroethane  |           |              |               |              |             | 2.296       | 2.278       | 2.303     | 2.220       | 2.515     | 2.329       | 2.219       | 2.130       | 2.286    | 4.90      |      |           |       |           |       |           |       |           |  |  |
| Cis-1,2-Dichloroethene    |           |              |               |              |             |             | 1.035       | 1.386     | 1.140       | 1.347     | 1.399       | 1.305       | 1.194       | 1.258    | 10.97     |      |           |       |           |       |           |       |           |  |  |
| 1,1,1-Trichloroethane     |           |              |               |              |             | 2.611       | 2.496       | 2.684     | 2.542       | 2.883     | 2.800       | 2.782       | 2.802       | 2.700    | 5.15      |      |           |       |           |       |           |       |           |  |  |
| Benzene                   |           |              |               |              |             | 2.638       | 2.576       | 2.916     | 2.864       | 3.399     | 3.338       | 3.377       | 3.387       | 3.062    | 11.52     |      |           |       |           |       |           |       |           |  |  |
| Carbon Tetrachloride      |           |              |               |              |             | 2.612       | 2.622       | 2.735     | 2.607       | 3.026     | 2.998       | 3.025       | 3.066       | 2.836    | 7.41      |      |           |       |           |       |           |       |           |  |  |
| Trichloroethene           |           |              |               |              |             | 0.305       | 0.331       | 0.334     | 0.354       | 0.412     | 0.405       | 0.387       | 0.366       | 0.362    | 10.48     |      |           |       |           |       |           |       |           |  |  |
| Toluene                   |           |              |               |              |             | 0.596       | 0.658       | 0.742     | 0.844       | 1.076     | 1.118       | 1.141       | 1.091       | 0.908    | 24.69     |      |           |       |           |       |           |       |           |  |  |
| Tetrachloroethene         |           |              |               |              |             | 0.353       | 0.355       | 0.374     | 0.387       | 0.449     | 0.469       | 0.495       | 0.498       | 0.423    | 14.68     |      |           |       |           |       |           |       |           |  |  |
| Chlorobenzene             |           |              |               |              |             | 1.526       | 1.469       | 1.488     | 1.455       | 1.574     | 1.488       | 1.377       | 1.265       | 1.455    | 6.55      |      |           |       |           |       |           |       |           |  |  |
| Ethylbenzene              | qfi       |              |               |              |             | 0.108       | 0.282       | 0.650     | 2.020       | 5.212     | 10.660      | 26.300      | 38.960      | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |  |  |
| m,p-Xylene                | qfi       |              |               |              |             | 0.186       | 0.540       | 1.467     | 4.517       | 10.600    | 21.470      | 52.090      | 77.910      | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |  |  |
| o-Xylene                  | qfi       |              |               |              |             | 0.087       | 0.257       | 0.696     | 2.196       | 5.319     | 10.500      | 26.190      | 38.870      | Coef R2  | 1.00      |      |           |       |           |       |           |       |           |  |  |
| 1,3-Dichlorobenzene       |           |              |               |              |             | 1.026       | 1.223       | 1.495     | 1.513       | 1.727     | 1.694       | 1.629       | 1.444       | 1.469    | 16.33     |      |           |       |           |       |           |       |           |  |  |
| 1,4-Dichlorobenzene       |           |              |               |              |             | 0.898       | 1.137       | 1.369     | 1.441       | 1.625     | 1.620       | 1.571       | 1.369       | 1.379    | 18.38     |      |           |       |           |       |           |       |           |  |  |
| 1,2-Dichlorobenzene       |           |              |               |              |             | 0.984       | 1.210       | 1.396     | 1.434       | 1.637     | 1.638       | 1.604       | 1.444       | 1.418    | 16.09     |      |           |       |           |       |           |       |           |  |  |
| 1,2,4-Trichlorobenzene    |           |              |               |              |             | 0.501       | 0.536       | 0.772     | 0.752       | 0.810     | 0.875       | 0.978       | 0.929       | 0.769    | 22.47     |      |           |       |           |       |           |       |           |  |  |
| Vinyl Chloride(sim)       |           | 1.090        | 1.072         | 1.016        | 0.989       | 0.934       | 0.912       | 0.907     | 0.906       | 1.032     |             |             |             | 0.984    | 7.38      |      |           |       |           |       |           |       |           |  |  |
| Carbon Tetrachloride(sim) |           | 2.445        | 2.528         | 2.266        | 2.440       | 2.384       | 2.378       | 2.405     | 2.311       |           |             |             |             | 2.395    | 3.41      |      |           |       |           |       |           |       |           |  |  |
| 1,1-Dichloroethene(sim)   |           | 1.932        | 1.783         | 1.758        | 1.756       | 1.639       | 1.619       | 1.611     | 1.611       | 1.763     |             |             |             | 1.719    | 6.30      |      |           |       |           |       |           |       |           |  |  |

(#) 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: WALDENE-IPARK

SDG No.: GCG29877

Calibration Date From: 07/08/20 16:41

Calibration Date Thru: 07/08/20 21:38

Method File: 20 AIR 0708 wal.M

[illegible]

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Phoenix Environmental Laboratories, Inc.

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_07.D  
 Acq On : 8 Jul 2020 2:16 pm  
 Operator :  
 Client ID : ICAL 0.02  
 Lab ID : 0.02  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 09 10:28:43 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 11:27:58 2020  
 Response via : Initial Calibration

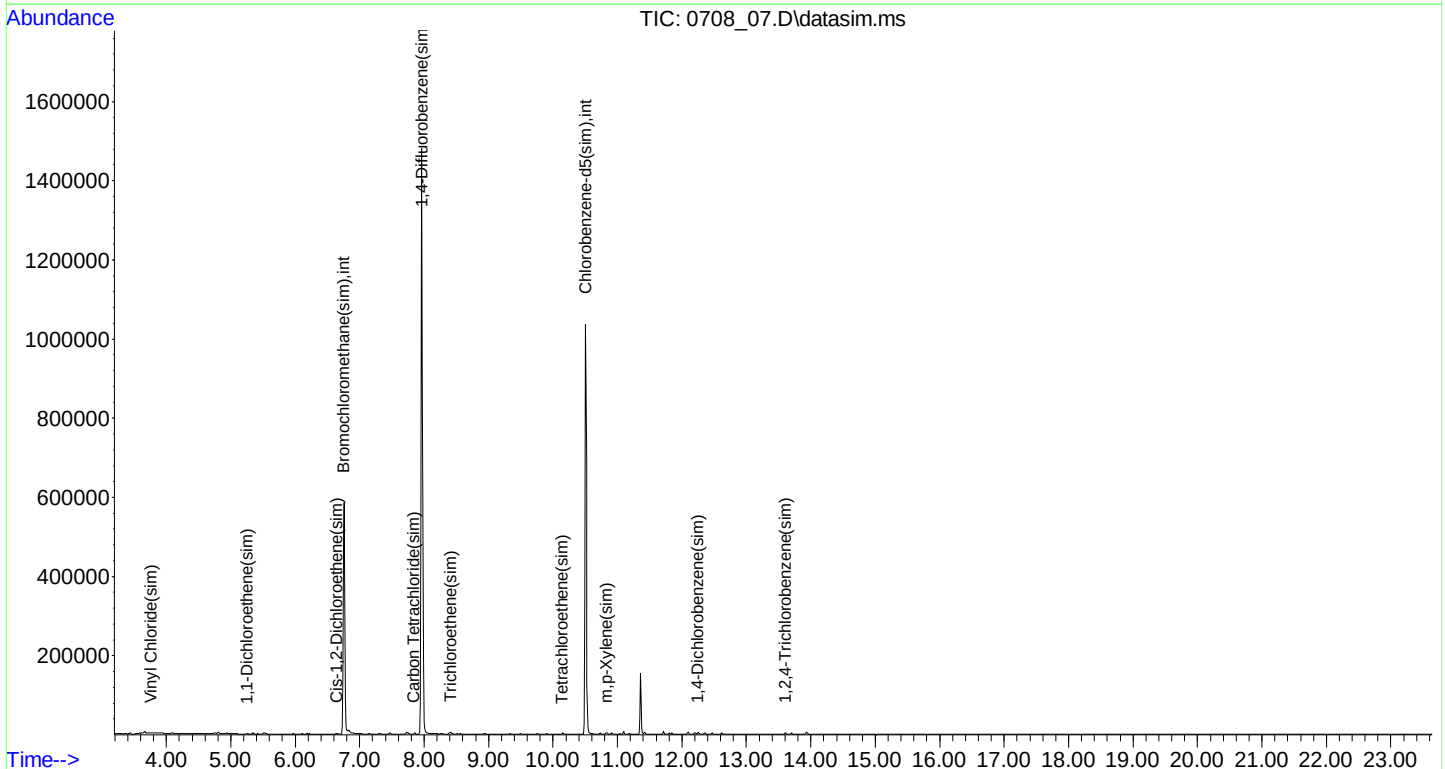
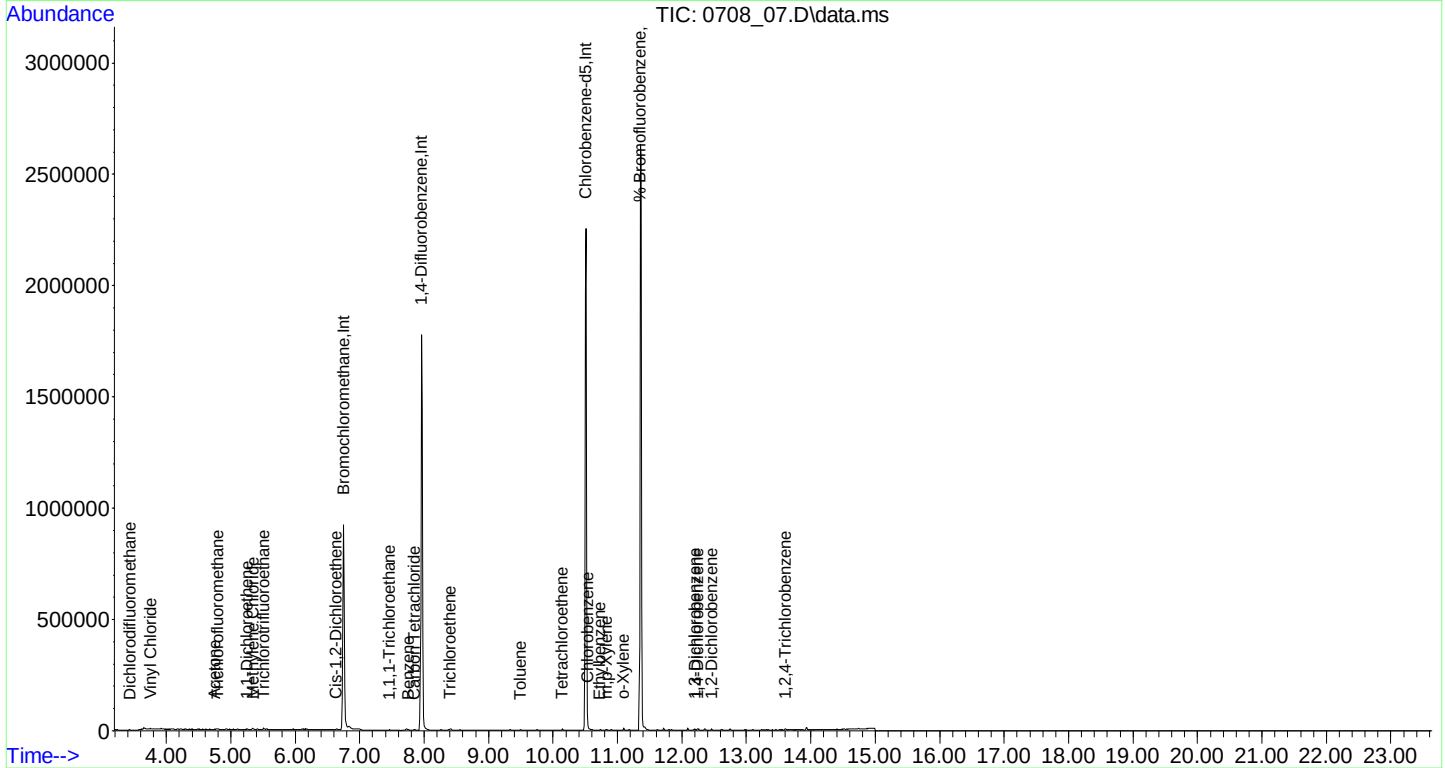
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 6.752  | 130   | 309748   | 10.000   | ng     | 0.01     |
| 36) 1,4-Difluorobenzene        | 7.958  | 114   | 1137045  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.512 | 82    | 644807   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 6.758  | 130   | 355402   | 10.000   | ng     | # 0.01   |
| 94) 1,4-Difluorobenzene(sim)   | 7.963  | 114   | 1304768  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.507 | 82    | 686083   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 62) % Bromofluorobenzene       | 11.352 | 95    | 825024   | 9.318    | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =      | 93.20%   |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane     | 3.436  | 85    | 3067     | 0.025    | ppbv#  | 91       |
| 6) Vinyl Chloride              | 3.759  | 62    | 605      | 0.020    | ppbv   | 73       |
| 12) Acetone                    | 4.751  | 43    | 2463     | 0.052    | ppbv#  | 71       |
| 13) Trichlorofluoromethane     | 4.794  | 101   | 2903     | 0.027    | ppbv   | 96       |
| 16) 1,1-Dichloroethene         | 5.253  | 61    | 1444     | 0.028    | ppbv   | 93       |
| 17) Methylene Chloride         | 5.339  | 49    | 2257     | 0.070    | ppbv   | 93       |
| 21) Trichlorotrifluoroethane   | 5.512  | 101   | 1935     | 0.027    | ppbv#  | 86       |
| 26) Cis-1,2-Dichloroethene     | 6.638  | 61    | 1169     | 0.030    | ppbv#  | 87       |
| 32) 1,1,1-Trichloroethane      | 7.460  | 97    | 2091     | 0.025    | ppbv   | 95       |
| 33) Benzene                    | 7.757  | 78    | 2026     | 0.021    | ppbv   | 95       |
| 34) Carbon Tetrachloride       | 7.846  | 117   | 1738     | 0.020    | ppbv#  | 83       |
| 39) Trichloroethene            | 8.403  | 130   | 778      | 0.019    | ppbv   | 88       |
| 48) Toluene                    | 9.494  | 91    | 2051     | 0.020    | ppbv#  | 80       |
| 52) Tetrachloroethene          | 10.145 | 166   | 1102     | 0.023    | ppbv   | 92       |
| 55) Chlorobenzene              | 10.532 | 112   | 2569     | 0.027    | ppbv#  | 1        |
| 56) Ethylbenzene               | 10.727 | 91    | 2292     | 0.018    | ppbv   | 91       |
| 57) m,p-Xylene                 | 10.830 | 91    | 2862     | 0.027    | ppbv#  | 92       |
| 61) o-Xylene                   | 11.096 | 91    | 1450     | 0.013    | ppbv   | 94       |
| 71) 1,3-Dichlorobenzene        | 12.204 | 146   | 1634     | 0.017    | ppbv#  | 89       |
| 72) 1,4-Dichlorobenzene        | 12.245 | 146   | 1630     | 0.018    | ppbv   | 91       |
| 75) 1,2-Dichlorobenzene        | 12.460 | 146   | 1962     | 0.021    | ppbv   | 95       |
| 77) 1,2,4-Trichlorobenzene     | 13.609 | 180   | 1786     | 0.036    | ppbv#  | 79       |
| 82) Vinyl Chloride(sim)        | 3.765  | 62    | 775m     | 0.022    | ppbv   | 90       |
| 87) Carbon Tetrachloride(sim)  | 7.846  | 117   | 1738     | 0.020    | ppbv#  | 83       |
| 88) 1,1-Dichloroethene(sim)    | 5.259  | 61    | 1373     | 0.022    | ppbv   | 91       |
| 92) Cis-1,2-Dichloroethene...  | 6.643  | 61    | 954      | 0.023    | ppbv   | 94       |
| 97) Trichloroethene(sim)       | 8.409  | 130   | 1167m    | 0.028    | ppbv   | 80       |
| 103) Tetrachloroethene(sim)    | 10.145 | 166   | 1102     | 0.024    | ppbv   | 92       |
| 106) m,p-Xylene(sim)           | 10.825 | 91    | 3402     | 0.037    | ppbv   | 97       |
| 112) 1,4-Dichlorobenzene(sim)  | 12.250 | 146   | 1839     | 0.020    | ppbv   | 100      |
| 117) 1,2,4-Trichlorobenzene... | 13.609 | 180   | 1786     | 0.043    | ppbv#  | 79       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_07.D  
 Acq On : 8 Jul 2020 2:16 pm  
 Operator :  
 Client ID : ICAL 0.02  
 Lab ID : 0.02  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 09 10:28:43 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:27:58 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_08.D  
 Acq On : 8 Jul 2020 2:52 pm  
 Operator :  
 Client ID : ICAL 0.035  
 Lab ID : 0.035  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 09 10:29:15 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 11:29:11 2020  
 Response via : Initial Calibration

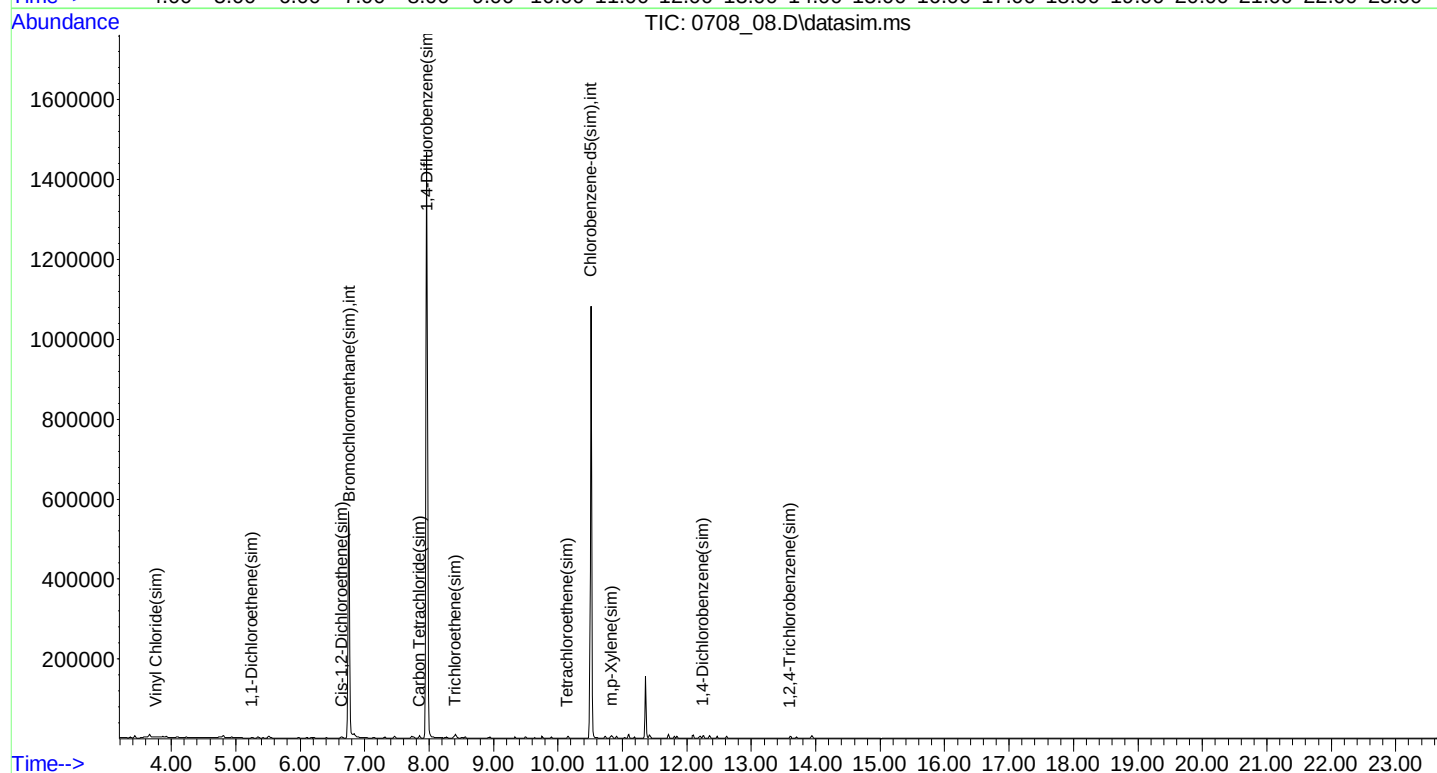
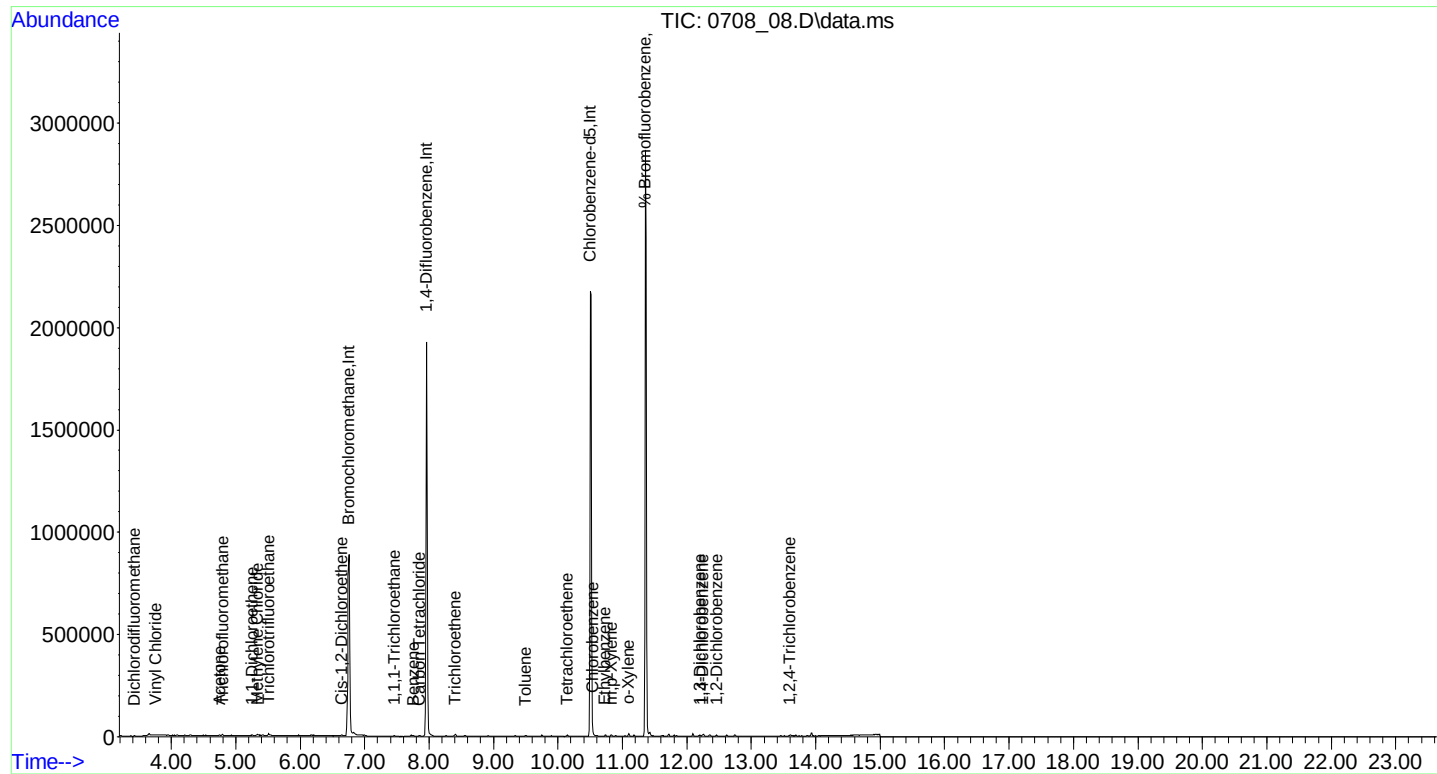
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 6.755  | 130   | 321836   | 10.000   | ng     | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.960  | 114   | 1142017  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.503 | 82    | 657495   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 6.760  | 130   | 355185   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)   | 7.966  | 114   | 1324610  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.508 | 82    | 698392   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 62) % Bromofluorobenzene       | 11.354 | 95    | 837628   | 9.278    | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =      | 92.80%   |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane     | 3.425  | 85    | 4398     | 0.035    | ppbv#  | 95       |
| 6) Vinyl Chloride              | 3.759  | 62    | 1123     | 0.037    | ppbv   | 92       |
| 12) Acetone                    | 4.751  | 43    | 3902     | 0.080    | ppbv#  | 90       |
| 13) Trichlorofluoromethane     | 4.794  | 101   | 4474     | 0.040    | ppbv#  | 90       |
| 16) 1,1-Dichloroethene         | 5.253  | 61    | 1705     | 0.032    | ppbv#  | 34       |
| 17) Methylene Chloride         | 5.339  | 49    | 2576     | 0.077    | ppbv#  | 85       |
| 21) Trichlorotrifluoroethane   | 5.512  | 101   | 2704     | 0.037    | ppbv#  | 73       |
| 26) Cis-1,2-Dichloroethene     | 6.640  | 61    | 1824     | 0.045    | ppbv   | 94       |
| 32) 1,1,1-Trichloroethane      | 7.463  | 97    | 2913     | 0.034    | ppbv   | 93       |
| 33) Benzene                    | 7.760  | 78    | 3506     | 0.036    | ppbv   | 95       |
| 34) Carbon Tetrachloride       | 7.849  | 117   | 3143     | 0.034    | ppbv   | 93       |
| 39) Trichloroethene            | 8.406  | 130   | 1594     | 0.039    | ppbv#  | 71       |
| 48) Toluene                    | 9.496  | 91    | 3164     | 0.031    | ppbv#  | 86       |
| 52) Tetrachloroethene          | 10.146 | 166   | 1569     | 0.033    | ppbv   | 91       |
| 55) Chlorobenzene              | 10.534 | 112   | 4112     | 0.043    | ppbv#  | 43       |
| 56) Ethylbenzene               | 10.728 | 91    | 3315     | 0.026    | ppbv   | 91       |
| 57) m,p-Xylene                 | 10.831 | 91    | 4687     | 0.044    | ppbv   | 94       |
| 61) o-Xylene                   | 11.097 | 91    | 2400     | 0.021    | ppbv   | 95       |
| 71) 1,3-Dichlorobenzene        | 12.205 | 146   | 2456     | 0.025    | ppbv#  | 77       |
| 72) 1,4-Dichlorobenzene        | 12.246 | 146   | 1819     | 0.020    | ppbv   | 94       |
| 75) 1,2-Dichlorobenzene        | 12.461 | 146   | 2537     | 0.027    | ppbv   | 96       |
| 77) 1,2,4-Trichlorobenzene     | 13.600 | 180   | 1933     | 0.038    | ppbv#  | 91       |
| 82) Vinyl Chloride(sim)        | 3.765  | 62    | 1333     | 0.038    | ppbv#  | 4        |
| 87) Carbon Tetrachloride(sim)  | 7.849  | 117   | 3143     | 0.037    | ppbv   | 93       |
| 88) 1,1-Dichloroethene(sim)    | 5.250  | 61    | 2216     | 0.036    | ppbv   | 93       |
| 92) Cis-1,2-Dichloroethene...  | 6.646  | 61    | 1564     | 0.037    | ppbv   | 97       |
| 97) Trichloroethene(sim)       | 8.406  | 130   | 1594     | 0.037    | ppbv   | 93       |
| 103) Tetrachloroethene(sim)    | 10.146 | 166   | 1569     | 0.033    | ppbv   | 91       |
| 106) m,p-Xylene(sim)           | 10.826 | 91    | 5058     | 0.055    | ppbv   | 98       |
| 112) 1,4-Dichlorobenzene(sim)  | 12.252 | 146   | 2452     | 0.026    | ppbv   | 99       |
| 117) 1,2,4-Trichlorobenzene... | 13.600 | 180   | 1933     | 0.046    | ppbv   | 91       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_08.D  
 Acq On : 8 Jul 2020 2:52 pm  
 Operator :  
 Client ID : ICAL 0.035  
 Lab ID : 0.035  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 09 10:29:15 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:29:11 2020  
 Response via : Initial Calibration





## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_09.D  
 Acq On : 8 Jul 2020 3:28 pm  
 Operator :  
 Client ID : ICAL 0.05  
 Lab ID : 0.05  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 09 10:31:10 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 11:30:57 2020  
 Response via : Initial Calibration

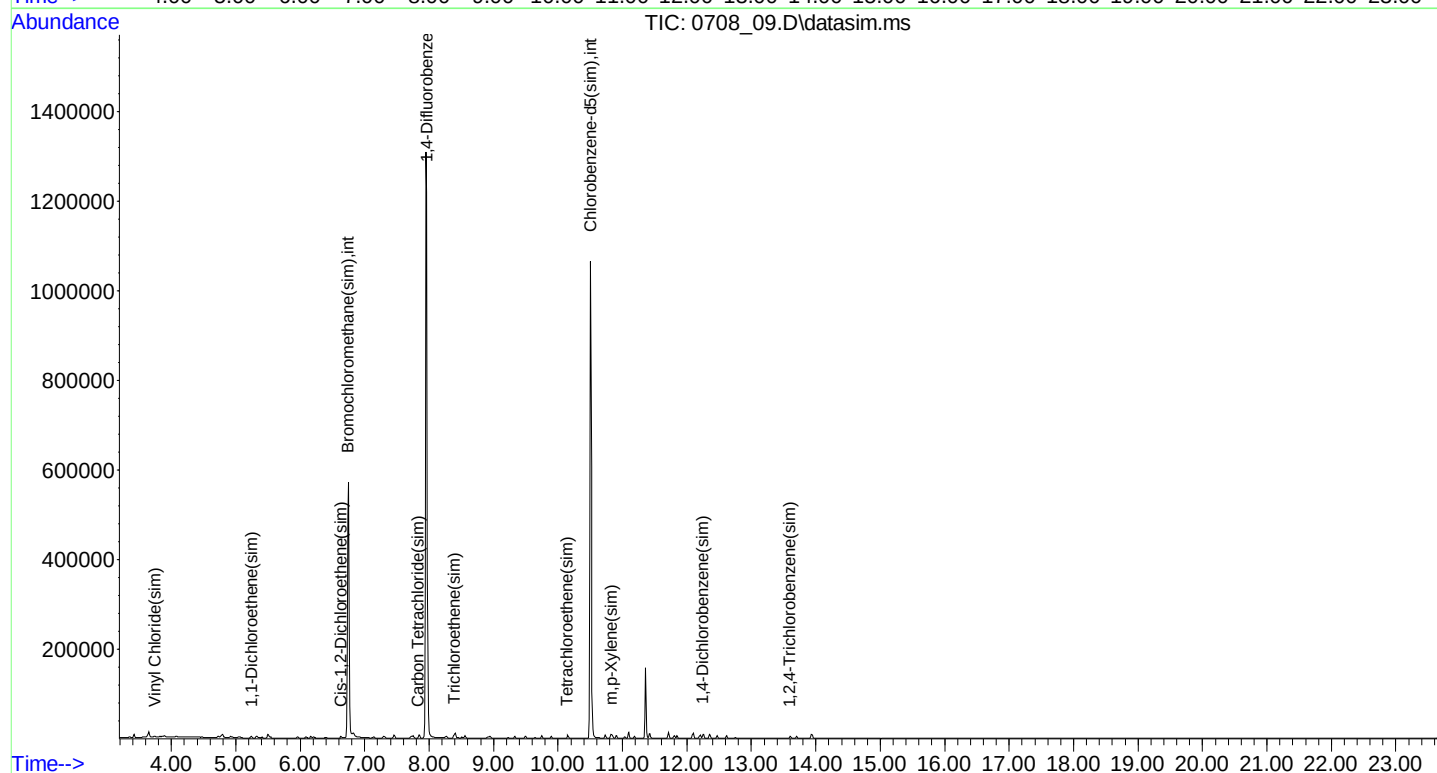
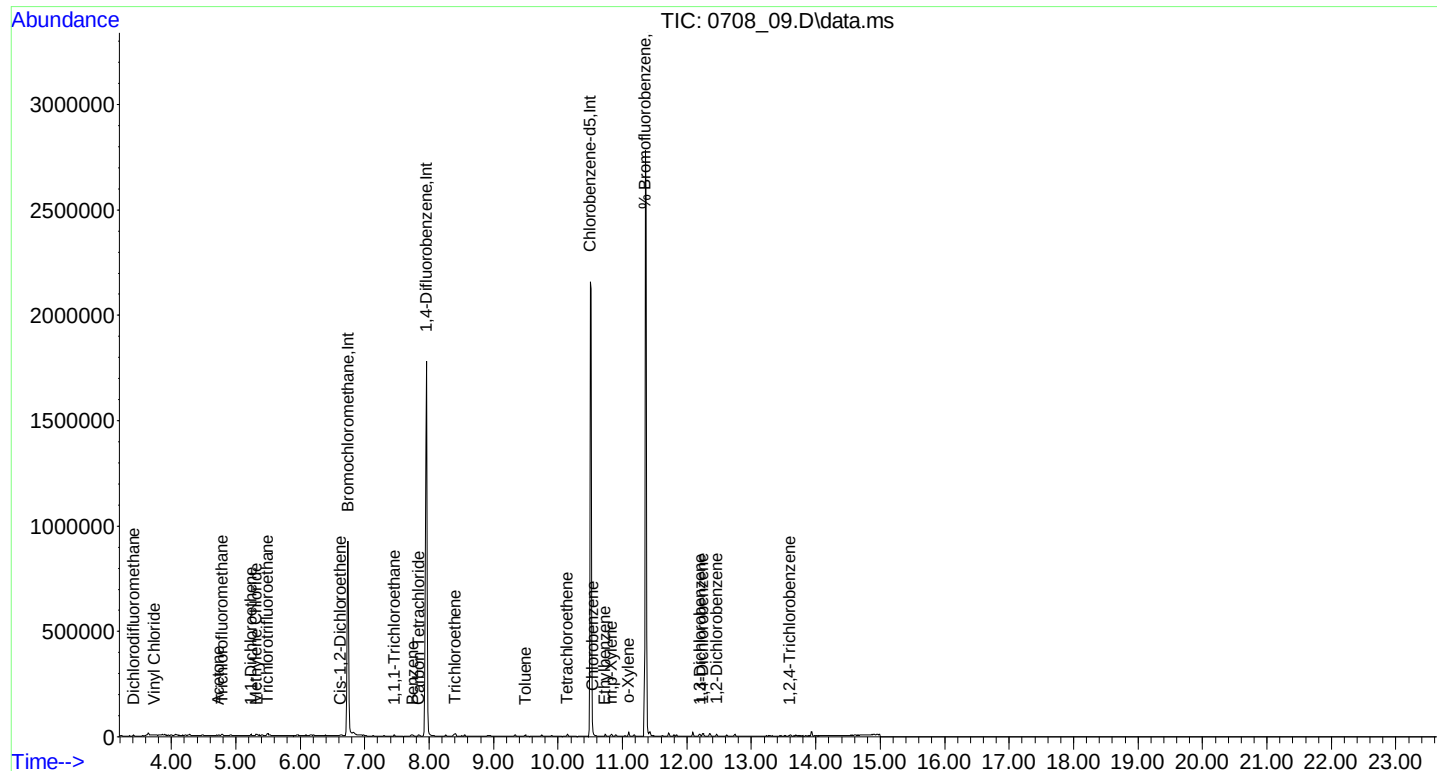
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 6.742  | 130   | 311366   | 10.000   | ng     | -0.01    |
| 36) 1,4-Difluorobenzene        | 7.958  | 114   | 1143194  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.502 | 82    | 643574   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 6.747  | 130   | 356270   | 10.000   | ng     | #-0.01   |
| 94) 1,4-Difluorobenzene(sim)   | 7.963  | 114   | 1306937  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.507 | 82    | 686422   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 62) % Bromofluorobenzene       | 11.352 | 95    | 841601   | 9.524    | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =      | 95.20%   |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane     | 3.414  | 85    | 6037     | 0.050    | ppbv#  | 85       |
| 6) Vinyl Chloride              | 3.738  | 62    | 1665     | 0.056    | ppbv   | 88       |
| 12) Acetone                    | 4.729  | 43    | 3993     | 0.084    | ppbv#  | 90       |
| 13) Trichlorofluoromethane     | 4.783  | 101   | 6494     | 0.059    | ppbv   | 86       |
| 16) 1,1-Dichloroethene         | 5.236  | 61    | 2926     | 0.057    | ppbv#  | 60       |
| 17) Methylene Chloride         | 5.313  | 49    | 3246     | 0.100    | ppbv#  | 84       |
| 21) Trichlorotrifluoroethane   | 5.495  | 101   | 4206     | 0.059    | ppbv#  | 82       |
| 26) Cis-1,2-Dichloroethene     | 6.627  | 61    | 2147     | 0.055    | ppbv#  | 80       |
| 32) 1,1,1-Trichloroethane      | 7.461  | 97    | 4321     | 0.051    | ppbv   | 94       |
| 33) Benzene                    | 7.746  | 78    | 4398     | 0.046    | ppbv#  | 93       |
| 34) Carbon Tetrachloride       | 7.835  | 117   | 4036     | 0.046    | ppbv   | 98       |
| 39) Trichloroethene            | 8.403  | 130   | 1976     | 0.048    | ppbv#  | 79       |
| 48) Toluene                    | 9.494  | 91    | 3839     | 0.037    | ppbv#  | 94       |
| 52) Tetrachloroethene          | 10.145 | 166   | 2472     | 0.051    | ppbv   | 95       |
| 55) Chlorobenzene              | 10.532 | 112   | 5228     | 0.056    | ppbv#  | 75       |
| 56) Ethylbenzene               | 10.727 | 91    | 4349     | 0.035    | ppbv   | 92       |
| 57) m, p-Xylene                | 10.830 | 91    | 6462     | 0.062    | ppbv#  | 90       |
| 61) o-Xylene                   | 11.096 | 91    | 3018     | 0.027    | ppbv   | 94       |
| 71) 1,3-Dichlorobenzene        | 12.204 | 146   | 3387     | 0.036    | ppbv   | 91       |
| 72) 1,4-Dichlorobenzene        | 12.245 | 146   | 3059     | 0.034    | ppbv#  | 90       |
| 75) 1,2-Dichlorobenzene        | 12.460 | 146   | 3598     | 0.039    | ppbv#  | 94       |
| 77) 1,2,4-Trichlorobenzene     | 13.599 | 180   | 2094     | 0.042    | ppbv#  | 88       |
| 82) Vinyl Chloride(sim)        | 3.743  | 62    | 1809     | 0.052    | ppbv   | 96       |
| 87) Carbon Tetrachloride(sim)  | 7.835  | 117   | 4036     | 0.047    | ppbv   | 98       |
| 88) 1,1-Dichloroethene(sim)    | 5.241  | 61    | 3131     | 0.051    | ppbv   | 97       |
| 92) Cis-1,2-Dichloroethene...  | 6.633  | 61    | 2228     | 0.053    | ppbv   | 96       |
| 97) Trichloroethene(sim)       | 8.403  | 130   | 1976     | 0.047    | ppbv#  | 80       |
| 103) Tetrachloroethene(sim)    | 10.145 | 166   | 2472     | 0.053    | ppbv   | 95       |
| 106) m, p-Xylene(sim)          | 10.825 | 91    | 6939     | 0.076    | ppbv   | 99       |
| 112) 1,4-Dichlorobenzene(sim)  | 12.250 | 146   | 3190     | 0.035    | ppbv   | 98       |
| 117) 1,2,4-Trichlorobenzene... | 13.599 | 180   | 2094     | 0.050    | ppbv   | 88       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_09.D  
 Acq On : 8 Jul 2020 3:28 pm  
 Operator :  
 Client ID : ICAL 0.05  
 Lab ID : 0.05  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 09 10:31:10 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:30:57 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_10.D  
 Acq On : 8 Jul 2020 4:04 pm  
 Operator :  
 Client ID : ICAL 0.1  
 Lab ID : 0.10  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 09 10:26:58 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 11:26:53 2020  
 Response via : Initial Calibration

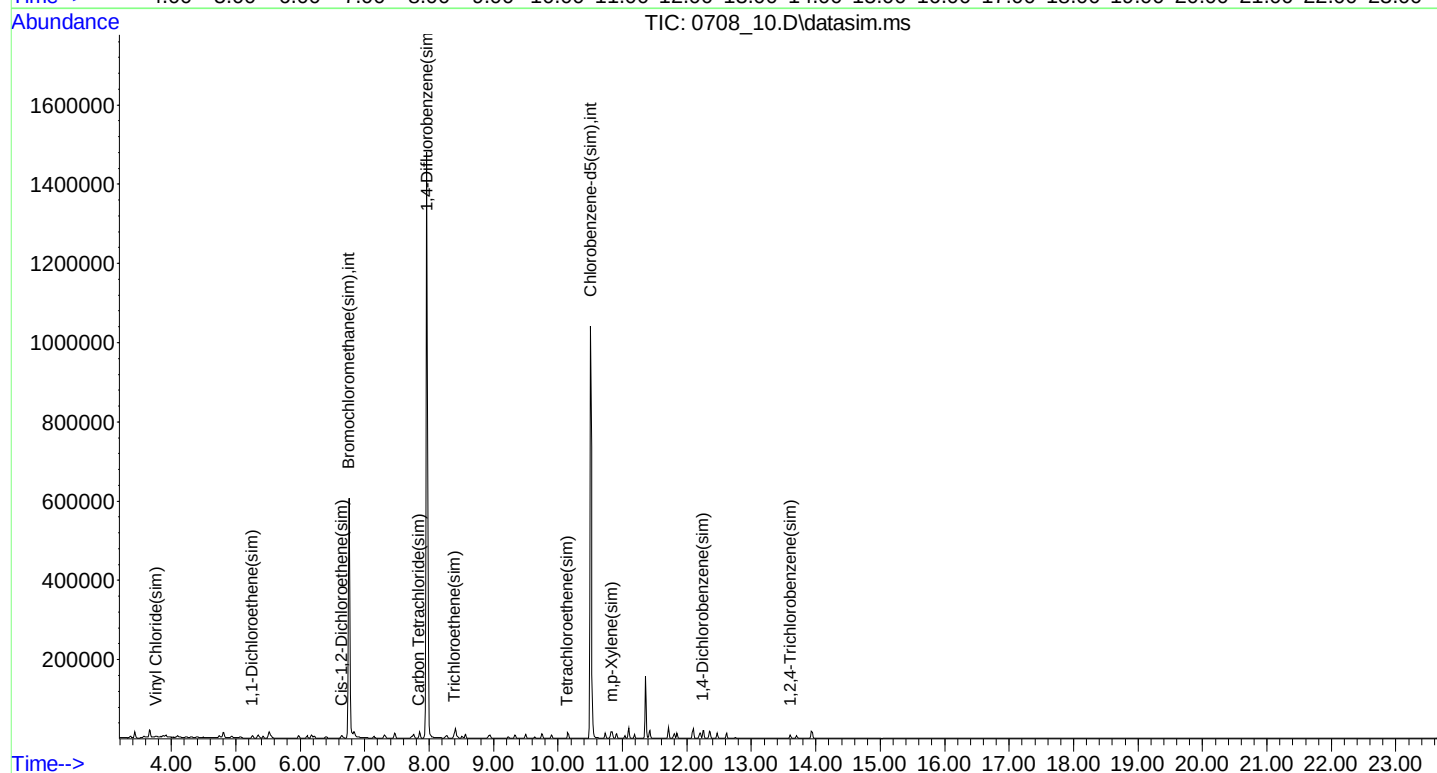
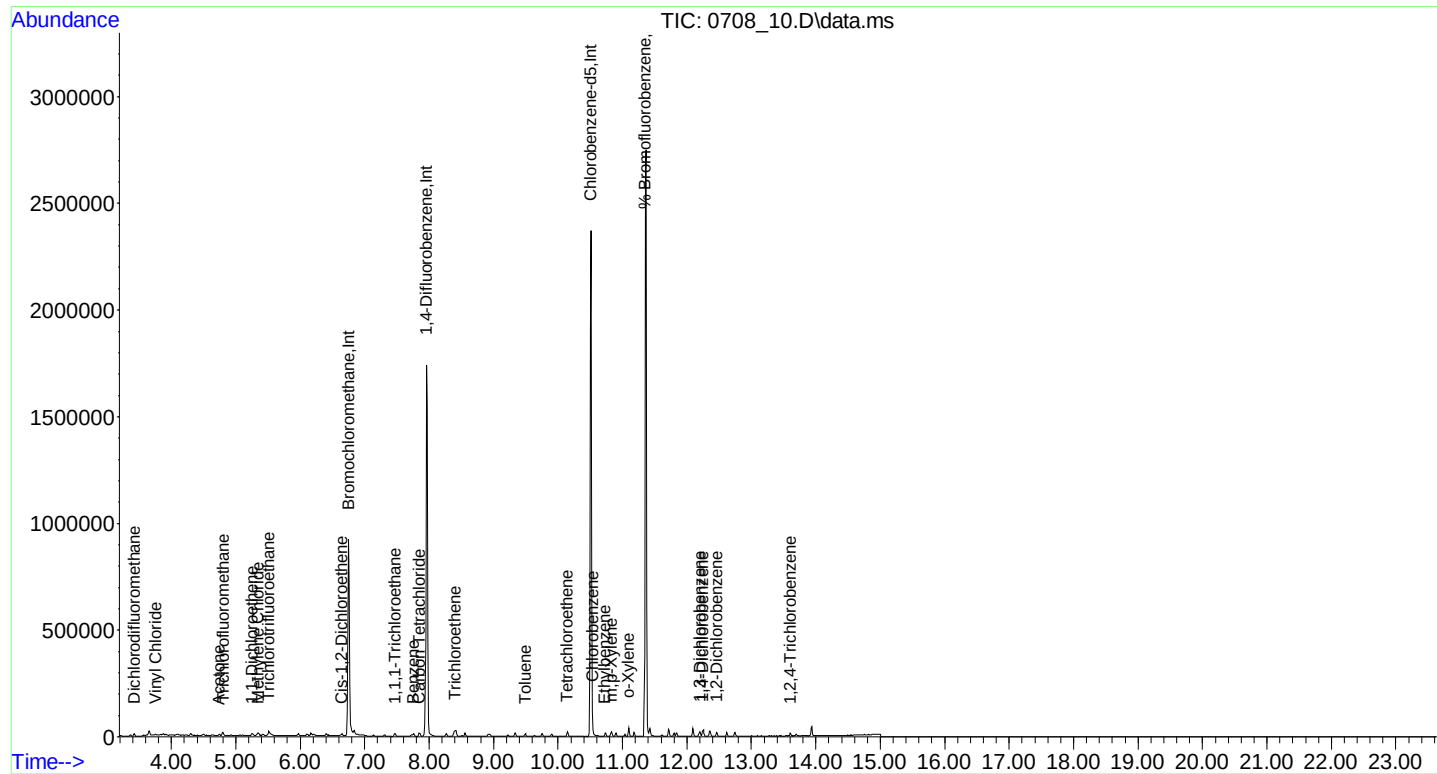
| Compound                       | R.T.   | QIon           | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|--------|----------------|----------|--------|--------|----------|
| Internal Standards             |        |                |          |        |        |          |
| 1) Bromochloromethane          | 6.752  | 130            | 313628   | 10.000 | ng     | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.957  | 114            | 1149609  | 10.000 | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.512 | 82             | 649459   | 10.000 | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 6.758  | 130            | 356670   | 10.000 | ng     | # 0.01   |
| 94) 1,4-Difluorobenzene(sim)   | 7.963  | 114            | 1317369  | 10.000 | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.507 | 82             | 694918   | 10.000 | ng     | 0.00     |
| System Monitoring Compounds    |        |                |          |        |        |          |
| 62) % Bromofluorobenzene       | 11.352 | 95             | 858562   | 9.691  | ppbv   | -0.01    |
| Spiked Amount                  | 10.000 | Range 70 - 130 | Recovery | =      | 96.90% |          |
| Target Compounds               |        |                |          |        |        |          |
|                                |        |                |          |        |        | Qvalue   |
| 3) Dichlorodifluoromethane     | 3.425  | 85             | 12700    | 0.104  | ppbv   | 99       |
| 6) Vinyl Chloride              | 3.759  | 62             | 3377     | 0.113  | ppbv   | 96       |
| 12) Acetone                    | 4.740  | 43             | 6376     | 0.133  | ppbv   | 96       |
| 13) Trichlorofluoromethane     | 4.805  | 101            | 11743    | 0.106  | ppbv   | 93       |
| 16) 1,1-Dichloroethene         | 5.253  | 61             | 5605     | 0.109  | ppbv   | 97       |
| 17) Methylene Chloride         | 5.339  | 49             | 4588     | 0.141  | ppbv   | 95       |
| 21) Trichlorotrifluoroethane   | 5.512  | 101            | 8095     | 0.113  | ppbv   | 95       |
| 26) Cis-1,2-Dichloroethene     | 6.648  | 61             | 4810     | 0.122  | ppbv   | 97       |
| 32) 1,1,1-Trichloroethane      | 7.471  | 97             | 8981     | 0.106  | ppbv   | 99       |
| 33) Benzene                    | 7.757  | 78             | 8692     | 0.091  | ppbv   | 97       |
| 34) Carbon Tetrachloride       | 7.846  | 117            | 8704     | 0.098  | ppbv   | 97       |
| 39) Trichloroethene            | 8.403  | 130            | 4229     | 0.102  | ppbv#  | 80       |
| 48) Toluene                    | 9.494  | 91             | 7556     | 0.072  | ppbv   | 98       |
| 52) Tetrachloroethene          | 10.144 | 166            | 4361     | 0.090  | ppbv   | 95       |
| 55) Chlorobenzene              | 10.532 | 112            | 10132    | 0.107  | ppbv#  | 58       |
| 56) Ethylbenzene               | 10.727 | 91             | 8376     | 0.066  | ppbv   | 94       |
| 57) m,p-Xylene                 | 10.829 | 91             | 11983    | 0.116  | ppbv   | 96       |
| 61) o-Xylene                   | 11.096 | 91             | 6397     | 0.057  | ppbv   | 97       |
| 71) 1,3-Dichlorobenzene        | 12.204 | 146            | 6437     | 0.067  | ppbv   | 96       |
| 72) 1,4-Dichlorobenzene        | 12.245 | 146            | 4822     | 0.054  | ppbv   | 93       |
| 75) 1,2-Dichlorobenzene        | 12.460 | 146            | 6633     | 0.072  | ppbv   | 92       |
| 77) 1,2,4-Trichlorobenzene     | 13.609 | 180            | 3308     | 0.066  | ppbv#  | 81       |
| 82) Vinyl Chloride(sim)        | 3.765  | 62             | 3527     | 0.100  | ppbv   | 95       |
| 87) Carbon Tetrachloride(sim)  | 7.846  | 117            | 8704     | 0.102  | ppbv   | 97       |
| 88) 1,1-Dichloroethene(sim)    | 5.258  | 61             | 6263     | 0.102  | ppbv   | 99       |
| 92) Cis-1,2-Dichloroethene...  | 6.643  | 61             | 4445     | 0.105  | ppbv   | 99       |
| 97) Trichloroethene(sim)       | 8.403  | 130            | 4229     | 0.099  | ppbv#  | 86       |
| 103) Tetrachloroethene(sim)    | 10.144 | 166            | 4361     | 0.093  | ppbv   | 95       |
| 106) m,p-Xylene(sim)           | 10.835 | 91             | 13921    | 0.159  | ppbv   | 100      |
| 112) 1,4-Dichlorobenzene(sim)  | 12.250 | 146            | 6556     | 0.070  | ppbv   | 99       |
| 117) 1,2,4-Trichlorobenzene... | 13.609 | 180            | 3308     | 0.080  | ppbv#  | 81       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_10.D  
 Acq On : 8 Jul 2020 4:04 pm  
 Operator :  
 Client ID : ICAL 0.1  
 Lab ID : 0.10  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 09 10:26:58 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:26:53 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_11.D  
 Acq On : 8 Jul 2020 4:41 pm  
 Operator :  
 Client ID : ICAL 0.2  
 Lab ID : 0.2  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 09 10:26:34 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 11:26:30 2020  
 Response via : Initial Calibration

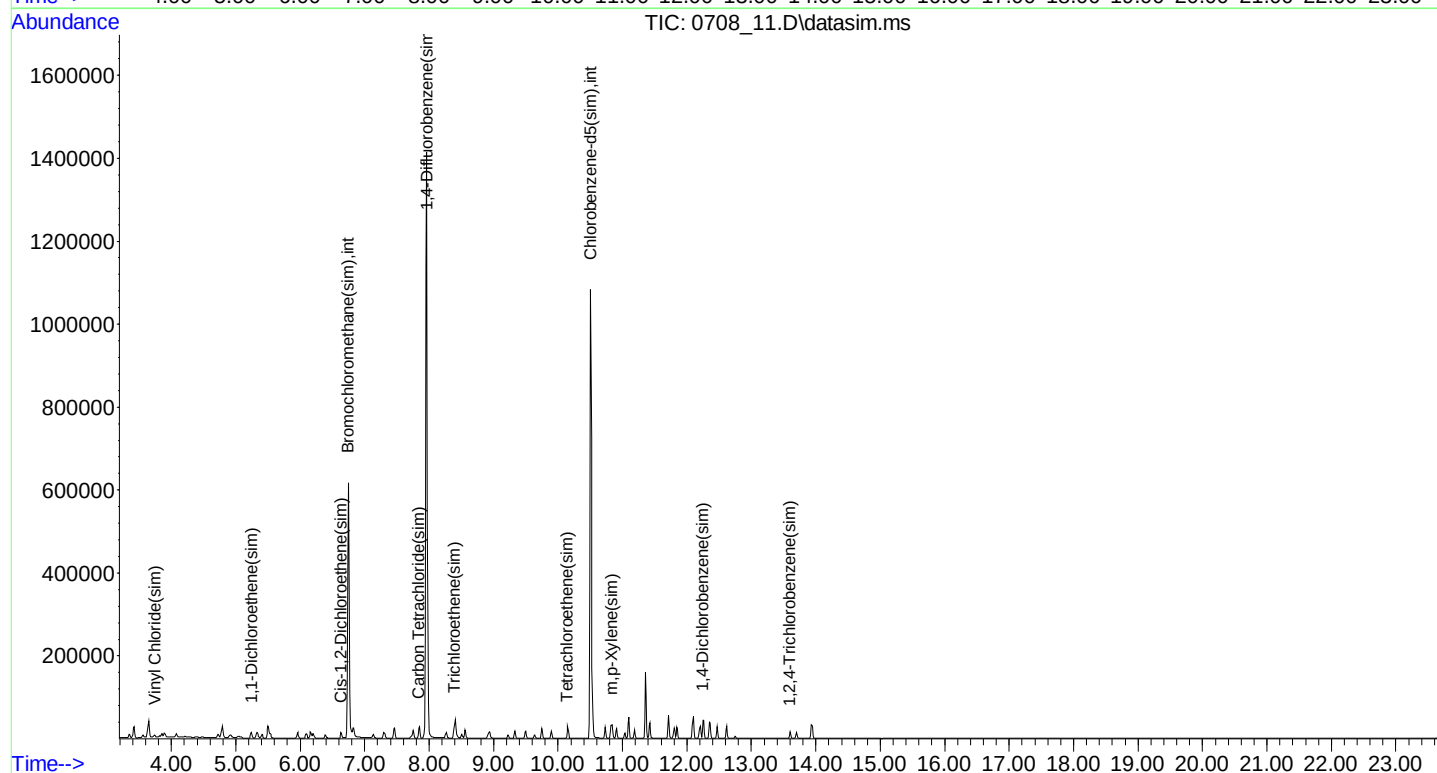
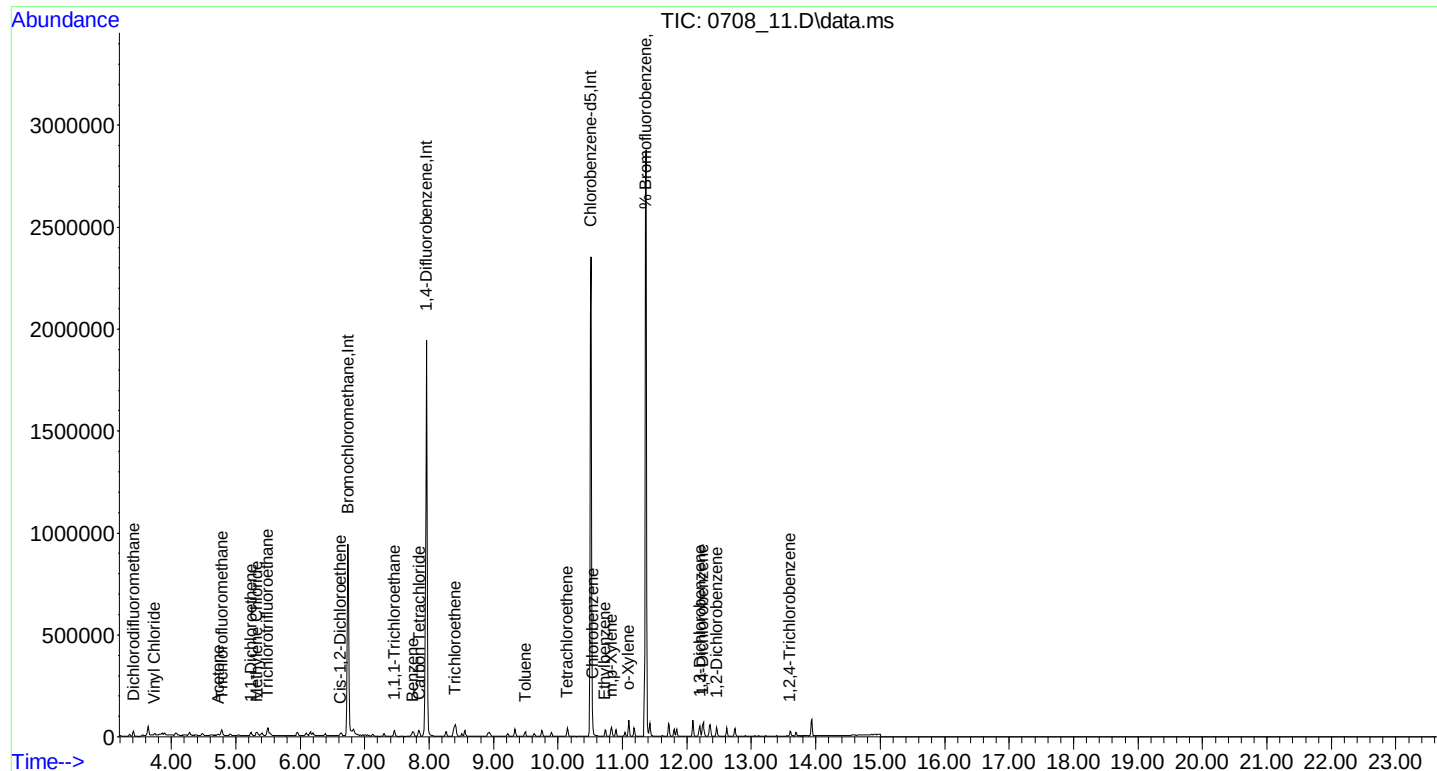
| Compound                       | R.T.   | QIon           | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|--------|----------------|----------|--------|--------|----------|
| Internal Standards             |        |                |          |        |        |          |
| 1) Bromochloromethane          | 6.742  | 130            | 325569   | 10.000 | ng     | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.957  | 114            | 1168972  | 10.000 | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.512 | 82             | 661512   | 10.000 | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 6.747  | 130            | 356661   | 10.000 | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)   | 7.963  | 114            | 1341266  | 10.000 | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.507 | 82             | 708958   | 10.000 | ng     | 0.00     |
| System Monitoring Compounds    |        |                |          |        |        |          |
| 62) % Bromofluorobenzene       | 11.362 | 95             | 895893   | 9.917  | ppbv   | 0.01     |
| Spiked Amount                  | 10.000 | Range 70 - 130 | Recovery | =      | 99.20% |          |
| Target Compounds               |        |                |          |        |        |          |
|                                |        |                |          |        |        | Qvalue   |
| 3) Dichlorodifluoromethane     | 3.414  | 85             | 24850    | 0.195  | ppbv   | 98       |
| 6) Vinyl Chloride              | 3.737  | 62             | 5957     | 0.192  | ppbv   | 99       |
| 12) Acetone                    | 4.729  | 43             | 11808    | 0.238  | ppbv   | 97       |
| 13) Trichlorofluoromethane     | 4.783  | 101            | 22578    | 0.197  | ppbv   | 93       |
| 16) 1,1-Dichloroethene         | 5.236  | 61             | 10580    | 0.199  | ppbv   | 99       |
| 17) Methylene Chloride         | 5.322  | 49             | 7657     | 0.226  | ppbv   | 93       |
| 21) Trichlorotrifluoroethane   | 5.494  | 101            | 14952    | 0.201  | ppbv   | 98       |
| 26) Cis-1,2-Dichloroethene     | 6.627  | 61             | 7466     | 0.182  | ppbv   | 96       |
| 32) 1,1,1-Trichloroethane      | 7.460  | 97             | 17003    | 0.193  | ppbv   | 98       |
| 33) Benzene                    | 7.746  | 78             | 17175    | 0.172  | ppbv   | 98       |
| 34) Carbon Tetrachloride       | 7.846  | 117            | 17008    | 0.184  | ppbv   | 96       |
| 39) Trichloroethene            | 8.403  | 130            | 7120     | 0.168  | ppbv   | 92       |
| 48) Toluene                    | 9.494  | 91             | 13934    | 0.131  | ppbv   | 95       |
| 52) Tetrachloroethene          | 10.144 | 166            | 8247     | 0.167  | ppbv   | 96       |
| 55) Chlorobenzene              | 10.532 | 112            | 20191    | 0.210  | ppbv#  | 67       |
| 56) Ethylbenzene               | 10.727 | 91             | 17076    | 0.125  | ppbv   | 99       |
| 57) m,p-Xylene                 | 10.829 | 91             | 25535    | 0.227  | ppbv   | 96       |
| 61) o-Xylene                   | 11.096 | 91             | 13106    | 0.107  | ppbv   | 97       |
| 71) 1,3-Dichlorobenzene        | 12.204 | 146            | 13580    | 0.140  | ppbv   | 98       |
| 72) 1,4-Dichlorobenzene        | 12.245 | 146            | 11885    | 0.130  | ppbv   | 97       |
| 75) 1,2-Dichlorobenzene        | 12.460 | 146            | 13016    | 0.139  | ppbv   | 92       |
| 77) 1,2,4-Trichlorobenzene     | 13.599 | 180            | 6627     | 0.130  | ppbv   | 95       |
| 82) Vinyl Chloride(sim)        | 3.743  | 62             | 6663     | 0.190  | ppbv   | 100      |
| 87) Carbon Tetrachloride(sim)  | 7.846  | 117            | 17008    | 0.199  | ppbv   | 96       |
| 88) 1,1-Dichloroethene(sim)    | 5.241  | 61             | 11688    | 0.191  | ppbv   | 99       |
| 92) Cis-1,2-Dichloroethene...  | 6.633  | 61             | 8067     | 0.190  | ppbv   | 95       |
| 97) Trichloroethene(sim)       | 8.403  | 130            | 7120     | 0.163  | ppbv   | 91       |
| 103) Tetrachloroethene(sim)    | 10.144 | 166            | 8247     | 0.174  | ppbv   | 96       |
| 106) m,p-Xylene(sim)           | 10.835 | 91             | 28235    | 0.301  | ppbv   | 99       |
| 112) 1,4-Dichlorobenzene(sim)  | 12.250 | 146            | 14656    | 0.146  | ppbv   | 99       |
| 117) 1,2,4-Trichlorobenzene... | 13.599 | 180            | 6627     | 0.150  | ppbv   | 95       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_11.D  
 Acq On : 8 Jul 2020 4:41 pm  
 Operator :  
 Client ID : ICAL 0.2  
 Lab ID : 0.2  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 09 10:26:34 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:26:30 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_12.D  
 Acq On : 8 Jul 2020 5:19 pm  
 Operator :  
 Client ID : ICAL 0.5  
 Lab ID : 0.50  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 09 10:26:11 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 11:25:18 2020  
 Response via : Initial Calibration

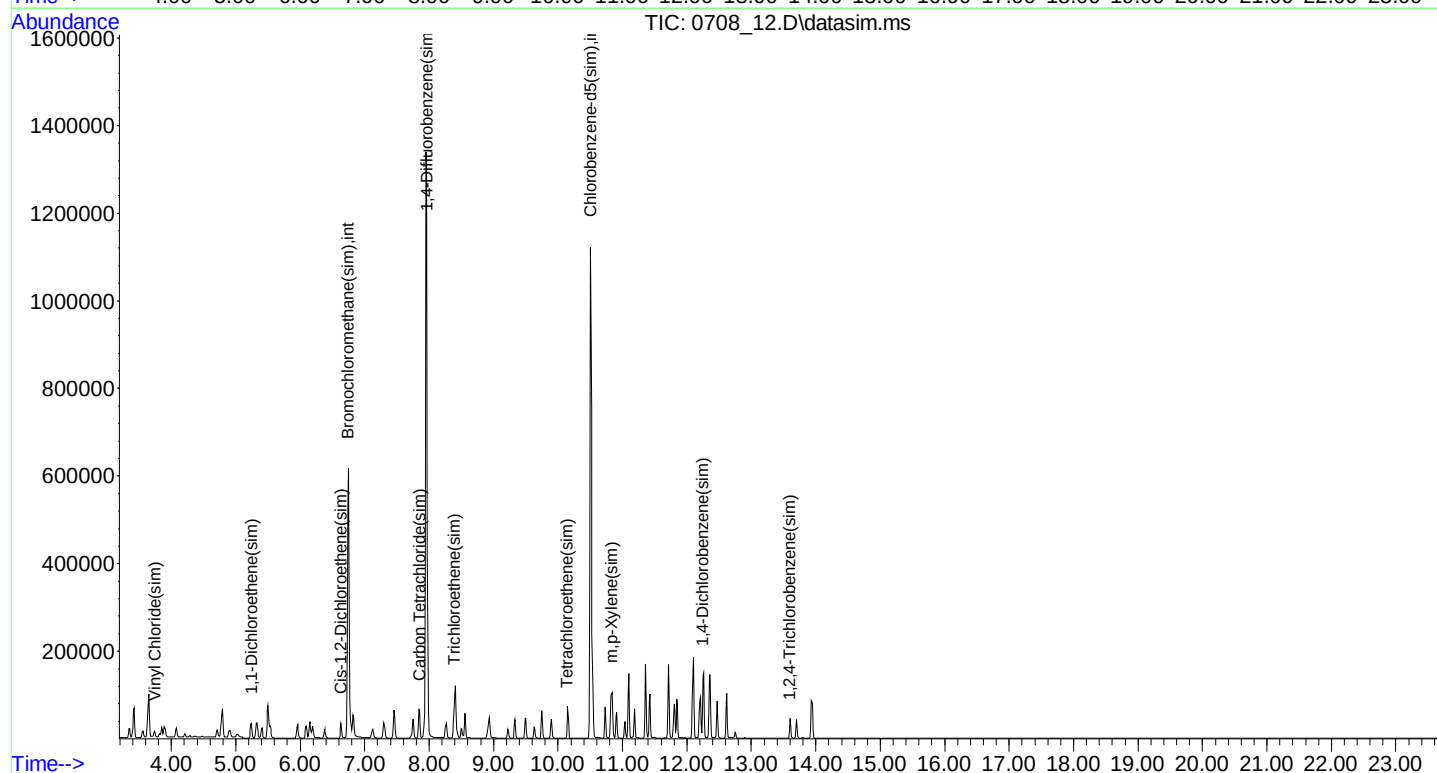
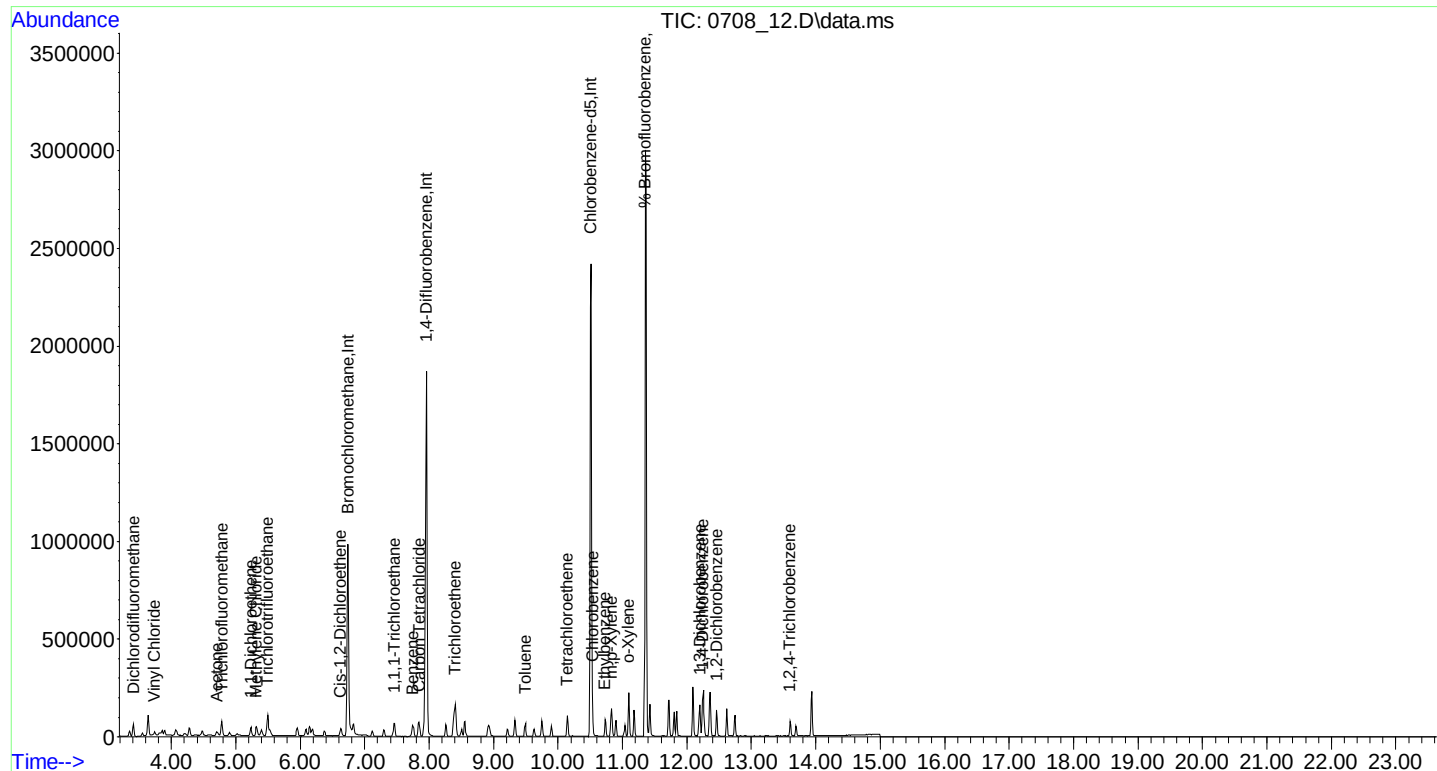
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 6.742  | 130   | 328003   | 10.000   | ng     | -0.01    |
| 36) 1,4-Difluorobenzene       | 7.958  | 114   | 1188017  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5          | 10.512 | 82    | 681268   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)   | 6.747  | 130   | 361652   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)  | 7.963  | 114   | 1381949  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)    | 10.507 | 82    | 725736   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 11.352 | 95    | 935945   | 10.071   | ppbv   | -0.01    |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 100.70%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane    | 3.414  | 85    | 60406    | 0.471    | ppbv   | 100      |
| 6) Vinyl Chloride             | 3.738  | 62    | 15045    | 0.480    | ppbv   | 96       |
| 12) Acetone                   | 4.708  | 43    | 25051    | 0.501    | ppbv   | 97       |
| 13) Trichlorofluoromethane    | 4.783  | 101   | 58407    | 0.506    | ppbv   | 98       |
| 16) 1,1-Dichloroethene        | 5.236  | 61    | 26091    | 0.486    | ppbv   | 99       |
| 17) Methylene Chloride        | 5.313  | 49    | 17250    | 0.506    | ppbv   | 98       |
| 21) Trichlorotrifluoroethane  | 5.494  | 101   | 37365    | 0.498    | ppbv   | 98       |
| 26) Cis-1,2-Dichloroethene    | 6.627  | 61    | 16969    | 0.411    | ppbv   | 98       |
| 32) 1,1,1-Trichloroethane     | 7.460  | 97    | 40933    | 0.462    | ppbv   | 99       |
| 33) Benzene                   | 7.746  | 78    | 42247    | 0.421    | ppbv   | 98       |
| 34) Carbon Tetrachloride      | 7.846  | 117   | 43008    | 0.462    | ppbv   | 98       |
| 39) Trichloroethene           | 8.403  | 130   | 19686    | 0.458    | ppbv   | 97       |
| 48) Toluene                   | 9.494  | 91    | 39061    | 0.362    | ppbv   | 96       |
| 52) Tetrachloroethene         | 10.145 | 166   | 21093    | 0.420    | ppbv   | 98       |
| 55) Chlorobenzene             | 10.532 | 112   | 50055    | 0.505    | ppbv   | 82       |
| 56) Ethylbenzene              | 10.727 | 91    | 46065    | 0.305    | ppbv   | 98       |
| 57) m,p-Xylene                | 10.830 | 91    | 76447    | 0.618    | ppbv#  | 96       |
| 61) o-Xylene                  | 11.096 | 91    | 39656    | 0.292    | ppbv#  | 95       |
| 71) 1,3-Dichlorobenzene       | 12.204 | 146   | 41663    | 0.416    | ppbv   | 98       |
| 72) 1,4-Dichlorobenzene       | 12.245 | 146   | 38722    | 0.412    | ppbv   | 96       |
| 75) 1,2-Dichlorobenzene       | 12.460 | 146   | 41204    | 0.426    | ppbv   | 97       |
| 77) 1,2,4-Trichlorobenzene    | 13.599 | 180   | 18243    | 0.348    | ppbv   | 95       |
| 82) Vinyl Chloride(sim)       | 3.743  | 62    | 16492    | 0.463    | ppbv   | 99       |
| 87) Carbon Tetrachloride(sim) | 7.846  | 117   | 43008    | 0.497    | ppbv   | 98       |
| 88) 1,1-Dichloroethene(sim)   | 5.241  | 61    | 29268    | 0.471    | ppbv   | 98       |
| 92) Cis-1,2-Dichloroethene... | 6.633  | 61    | 19320    | 0.449    | ppbv   | 97       |
| 97) Trichloroethene(sim)      | 8.403  | 130   | 19686    | 0.439    | ppbv   | 97       |
| 103) Tetrachloroethene(sim)   | 10.145 | 166   | 21093    | 0.431    | ppbv   | 98       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_12.D  
 Acq On : 8 Jul 2020 5:19 pm  
 Operator :  
 Client ID : ICAL 0.5  
 Lab ID : 0.50  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 09 10:26:11 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:25:18 2020  
 Response via : Initial Calibration





## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_13.D  
 Acq On : 8 Jul 2020 5:57 pm  
 Operator :  
 Client ID : ICAL 2.5  
 Lab ID : 2.5  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 09 10:25:24 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 11:25:18 2020  
 Response via : Initial Calibration

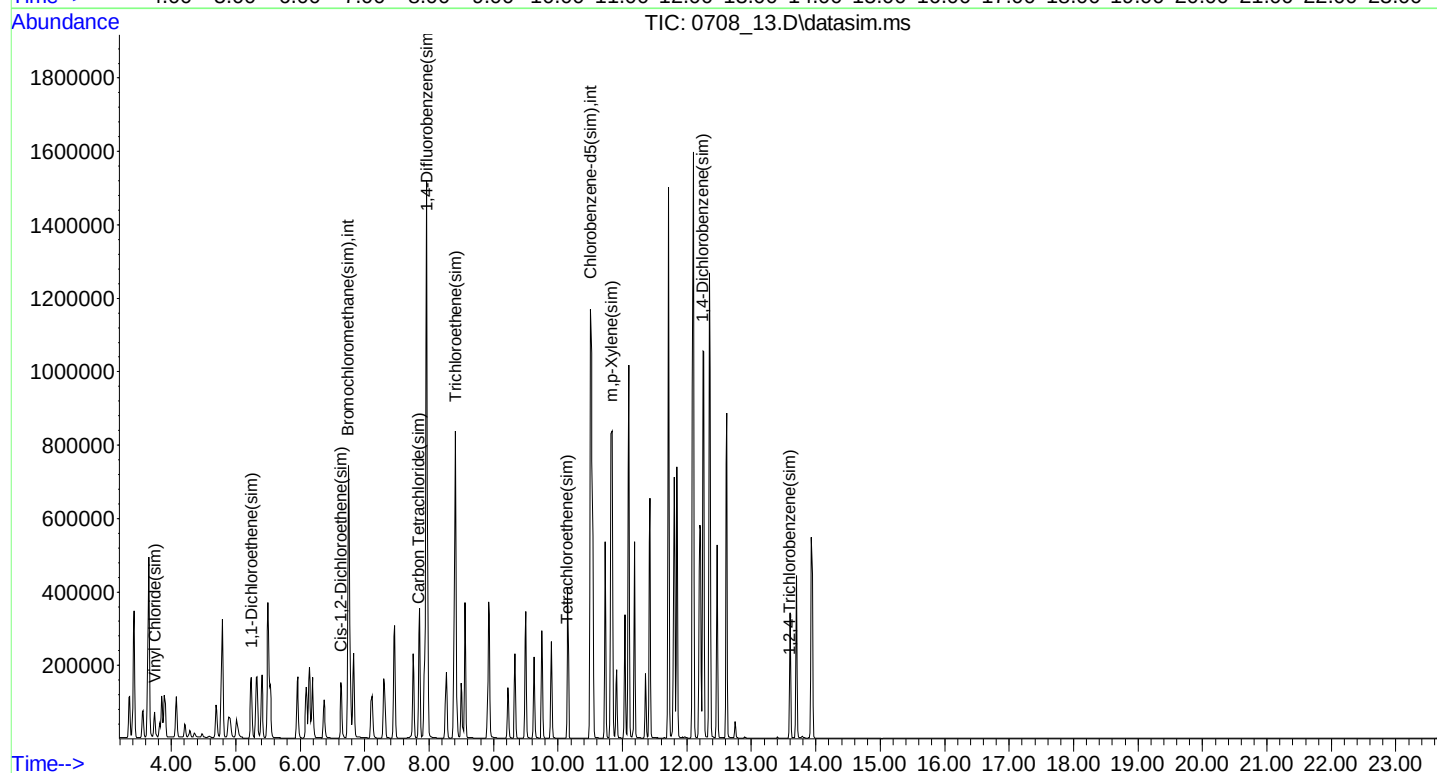
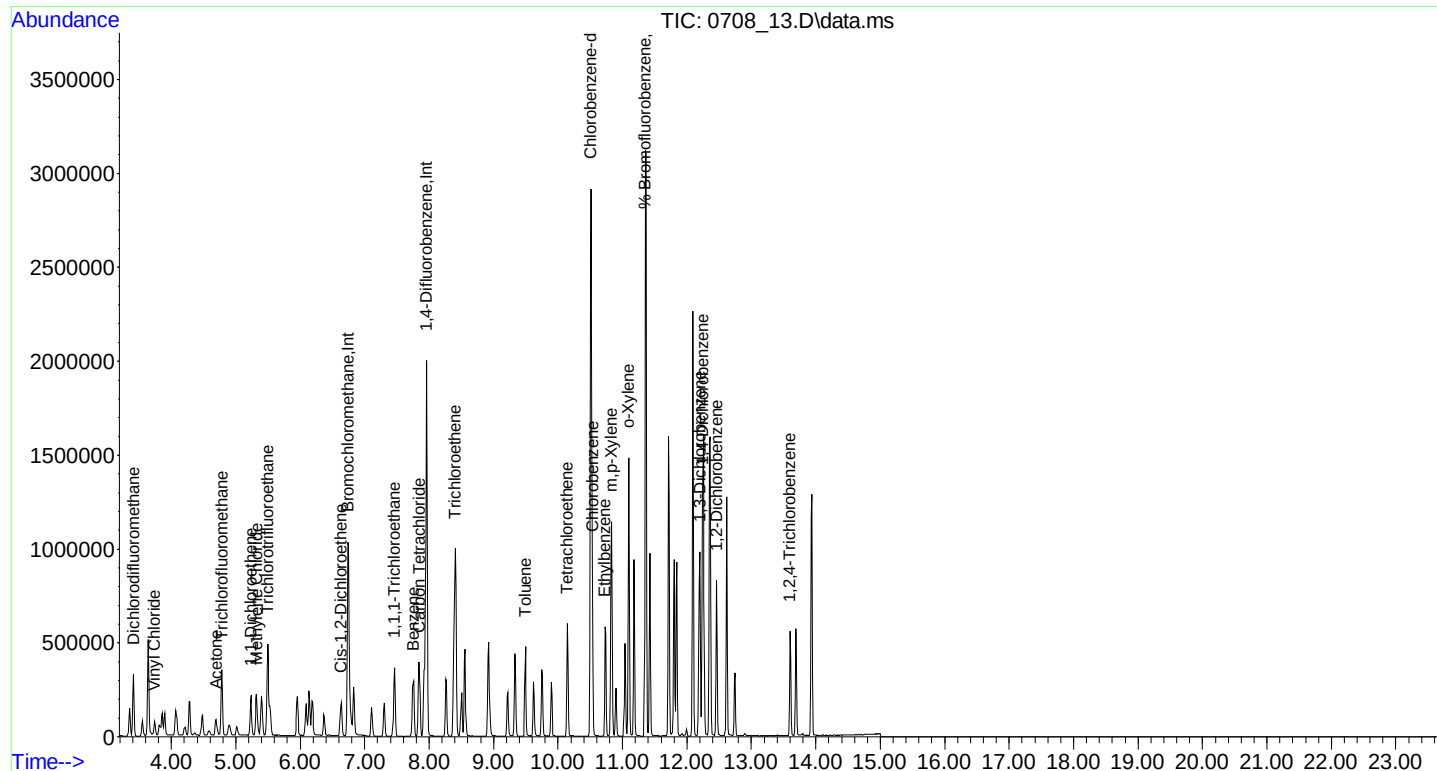
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 6.742  | 130   | 322279   | 10.000   | ng     | -0.01    |
| 36) 1,4-Difluorobenzene       | 7.958  | 114   | 1244591  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5          | 10.512 | 82    | 700408   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)   | 6.747  | 130   | 363676   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)  | 7.963  | 114   | 1430056  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)    | 10.507 | 82    | 753167   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 11.352 | 95    | 1005930  | 10.529   | ppbv   | -0.01    |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 105.30%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane    | 3.414  | 85    | 304859   | 2.422    | ppbv   | 100      |
| 6) Vinyl Chloride             | 3.738  | 62    | 73994    | 2.404    | ppbv   | 100      |
| 12) Acetone                   | 4.697  | 43    | 115685   | 2.355    | ppbv   | 100      |
| 13) Trichlorofluoromethane    | 4.783  | 101   | 282910   | 2.496    | ppbv   | 99       |
| 16) 1,1-Dichloroethene        | 5.236  | 61    | 126862   | 2.405    | ppbv   | 99       |
| 17) Methylene Chloride        | 5.322  | 49    | 79854    | 2.384    | ppbv   | 99       |
| 21) Trichlorotrifluoroethane  | 5.494  | 101   | 178861   | 2.428    | ppbv   | 99       |
| 26) Cis-1,2-Dichloroethene    | 6.638  | 61    | 91856    | 2.266    | ppbv   | 95       |
| 32) 1,1,1-Trichloroethane     | 7.460  | 97    | 204829   | 2.354    | ppbv   | 99       |
| 33) Benzene                   | 7.757  | 78    | 230717   | 2.338    | ppbv   | 99       |
| 34) Carbon Tetrachloride      | 7.846  | 117   | 210076   | 2.298    | ppbv   | 99       |
| 39) Trichloroethene           | 8.403  | 130   | 110132   | 2.446    | ppbv   | 98       |
| 48) Toluene                   | 9.494  | 91    | 262530   | 2.323    | ppbv   | 99       |
| 52) Tetrachloroethene         | 10.145 | 166   | 120338   | 2.288    | ppbv   | 99       |
| 55) Chlorobenzene             | 10.532 | 112   | 254755   | 2.499    | ppbv   | 98       |
| 56) Ethylbenzene              | 10.727 | 91    | 338300   | 2.182    | ppbv   | 99       |
| 57) m,p-Xylene                | 10.830 | 91    | 651343   | 5.126    | ppbv   | 98       |
| 61) o-Xylene                  | 11.096 | 91    | 345039   | 2.468    | ppbv   | 99       |
| 71) 1,3-Dichlorobenzene       | 12.204 | 146   | 264957   | 2.575    | ppbv   | 99       |
| 72) 1,4-Dichlorobenzene       | 12.245 | 146   | 252308   | 2.613    | ppbv   | 99       |
| 75) 1,2-Dichlorobenzene       | 12.460 | 146   | 251112   | 2.528    | ppbv   | 99       |
| 77) 1,2,4-Trichlorobenzene    | 13.599 | 180   | 131602   | 2.443    | ppbv   | 99       |
| 82) Vinyl Chloride(sim)       | 3.743  | 62    | 82359    | 2.301    | ppbv   | 100      |
| 87) Carbon Tetrachloride(sim) | 7.846  | 117   | 210076   | 2.412    | ppbv   | 99       |
| 88) 1,1-Dichloroethene(sim)   | 5.241  | 61    | 146495   | 2.343    | ppbv   | 98       |
| 92) Cis-1,2-Dichloroethene... | 6.633  | 61    | 97472    | 2.253    | ppbv   | 97       |
| 97) Trichloroethene(sim)      | 8.403  | 130   | 110142   | 2.371    | ppbv   | 99       |
| 103) Tetrachloroethene(sim)   | 10.145 | 166   | 120338   | 2.375    | ppbv   | 99       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_13.D  
 Acq On : 8 Jul 2020 5:57 pm  
 Operator :  
 Client ID : ICAL 2.5  
 Lab ID : 2.5  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 09 10:25:24 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:25:18 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_14.D  
 Acq On : 8 Jul 2020 6:33 pm  
 Operator :  
 Client ID : ICAL 5  
 Lab ID : 5.0  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 09 10:25:04 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Thu Jul 09 11:24:58 2020  
 Response via : Initial Calibration

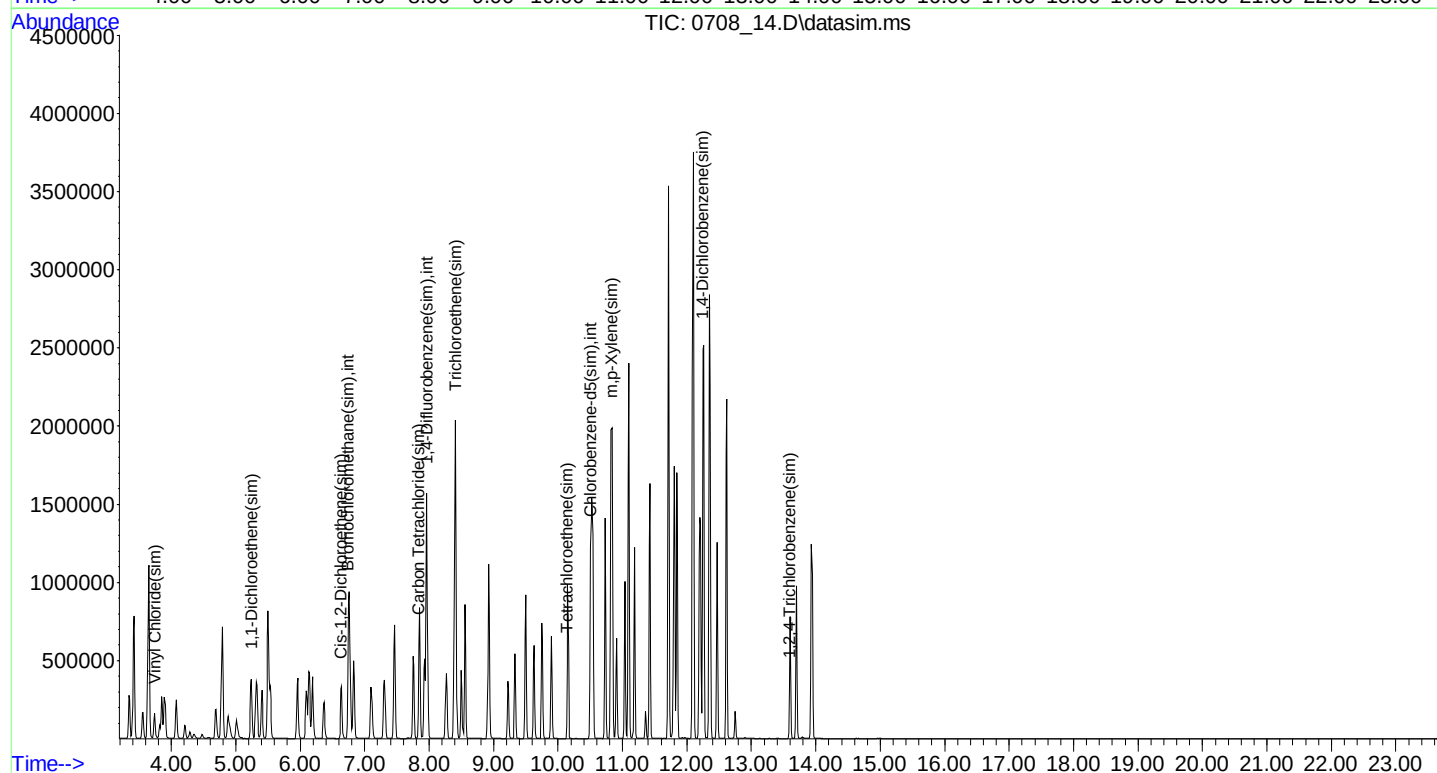
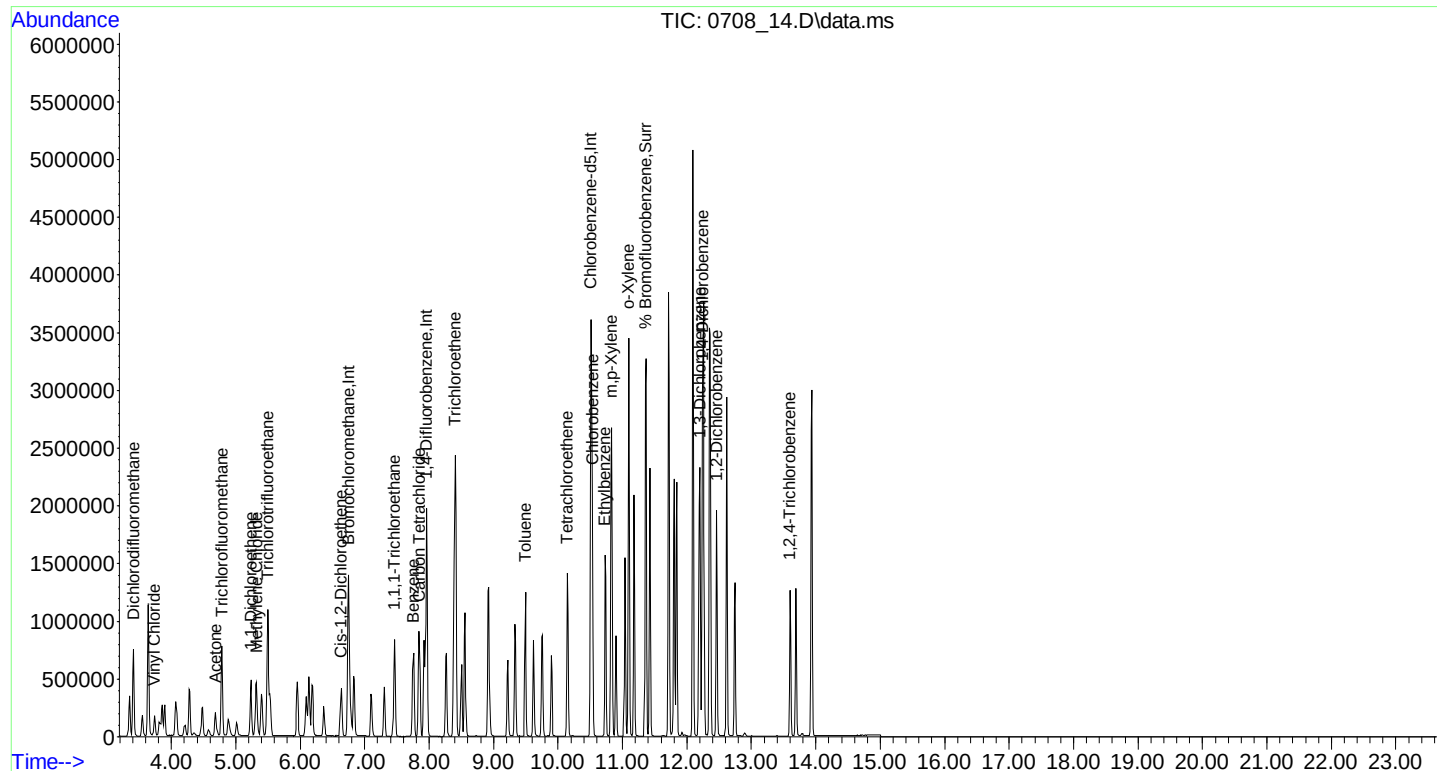
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 6.752  | 130   | 324710   | 10.000   | ng     | -0.01    |
| 36) 1,4-Difluorobenzene       | 7.958  | 114   | 1264202  | 10.000   | ng     | -0.01    |
| 53) Chlorobenzene-d5          | 10.512 | 82    | 729716   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)   | 6.747  | 130   | 368761   | 10.000   | ng     | #-0.02   |
| 94) 1,4-Difluorobenzene(sim)  | 7.963  | 114   | 1449730  | 10.000   | ng     | -0.01    |
| 104) Chlorobenzene-d5(sim)    | 10.507 | 82    | 782270   | 10.000   | ng     | -0.01    |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 11.363 | 95    | 1031180  | 10.453   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 104.50%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane    | 3.414  | 85    | 702107   | 5.536    | ppbv   | 99       |
| 6) Vinyl Chloride             | 3.738  | 62    | 170570   | 5.500    | ppbv   | 100      |
| 12) Acetone                   | 4.686  | 43    | 256448   | 5.182    | ppbv   | 99       |
| 13) Trichlorofluoromethane    | 4.783  | 101   | 628121   | 5.500    | ppbv   | 100      |
| 16) 1,1-Dichloroethene        | 5.236  | 61    | 290405   | 5.463    | ppbv   | 99       |
| 17) Methylene Chloride        | 5.322  | 49    | 178770   | 5.297    | ppbv   | 99       |
| 21) Trichlorotrifluoroethane  | 5.494  | 101   | 408248   | 5.499    | ppbv   | 99       |
| 26) Cis-1,2-Dichloroethene    | 6.638  | 61    | 218698   | 5.355    | ppbv   | 98       |
| 32) 1,1,1-Trichloroethane     | 7.460  | 97    | 468086   | 5.339    | ppbv   | 99       |
| 33) Benzene                   | 7.757  | 78    | 551775   | 5.550    | ppbv   | 96       |
| 34) Carbon Tetrachloride      | 7.846  | 117   | 491317   | 5.334    | ppbv   | 100      |
| 39) Trichloroethene           | 8.403  | 130   | 260564   | 5.698    | ppbv   | 97       |
| 48) Toluene                   | 9.494  | 91    | 680011   | 5.924    | ppbv   | 98       |
| 52) Tetrachloroethene         | 10.145 | 166   | 284094   | 5.317    | ppbv   | 98       |
| 55) Chlorobenzene             | 10.532 | 112   | 574328   | 5.408    | ppbv   | 96       |
| 56) Ethylbenzene              | 10.727 | 91    | 903225   | 5.763    | ppbv   | 99       |
| 57) m,p-Xylene                | 10.830 | 91    | 1570067  | 12.437   | ppbv   | 99       |
| 61) o-Xylene                  | 11.096 | 91    | 856452   | 6.149    | ppbv   | 99       |
| 71) 1,3-Dichlorobenzene       | 12.204 | 146   | 630169   | 5.878    | ppbv   | 99       |
| 72) 1,4-Dichlorobenzene       | 12.245 | 146   | 592947   | 5.893    | ppbv   | 98       |
| 75) 1,2-Dichlorobenzene       | 12.460 | 146   | 597319   | 5.771    | ppbv   | 98       |
| 77) 1,2,4-Trichlorobenzene    | 13.599 | 180   | 295686   | 5.269    | ppbv   | 99       |
| 82) Vinyl Chloride(sim)       | 3.743  | 62    | 190264   | 5.243    | ppbv   | 100      |
| 87) Carbon Tetrachloride(sim) | 7.846  | 117   | 491317   | 5.564    | ppbv   | 100      |
| 88) 1,1-Dichloroethene(sim)   | 5.241  | 61    | 325080   | 5.128    | ppbv   | 100      |
| 92) Cis-1,2-Dichloroethene... | 6.633  | 61    | 222044   | 5.063    | ppbv   | 97       |
| 97) Trichloroethene(sim)      | 8.403  | 130   | 260585   | 5.533    | ppbv   | 96       |
| 103) Tetrachloroethene(sim)   | 10.145 | 166   | 284094   | 5.531    | ppbv   | 98       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_14.D  
 Acq On : 8 Jul 2020 6:33 pm  
 Operator :  
 Client ID : ICAL 5  
 Lab ID : 5.0  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 09 10:25:04 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:24:58 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_15.D  
 Acq On : 8 Jul 2020 7:11 pm  
 Operator :  
 Client ID : ICAL 25  
 Lab ID : 25  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 09 10:24:15 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 11:24:10 2020  
 Response via : Initial Calibration

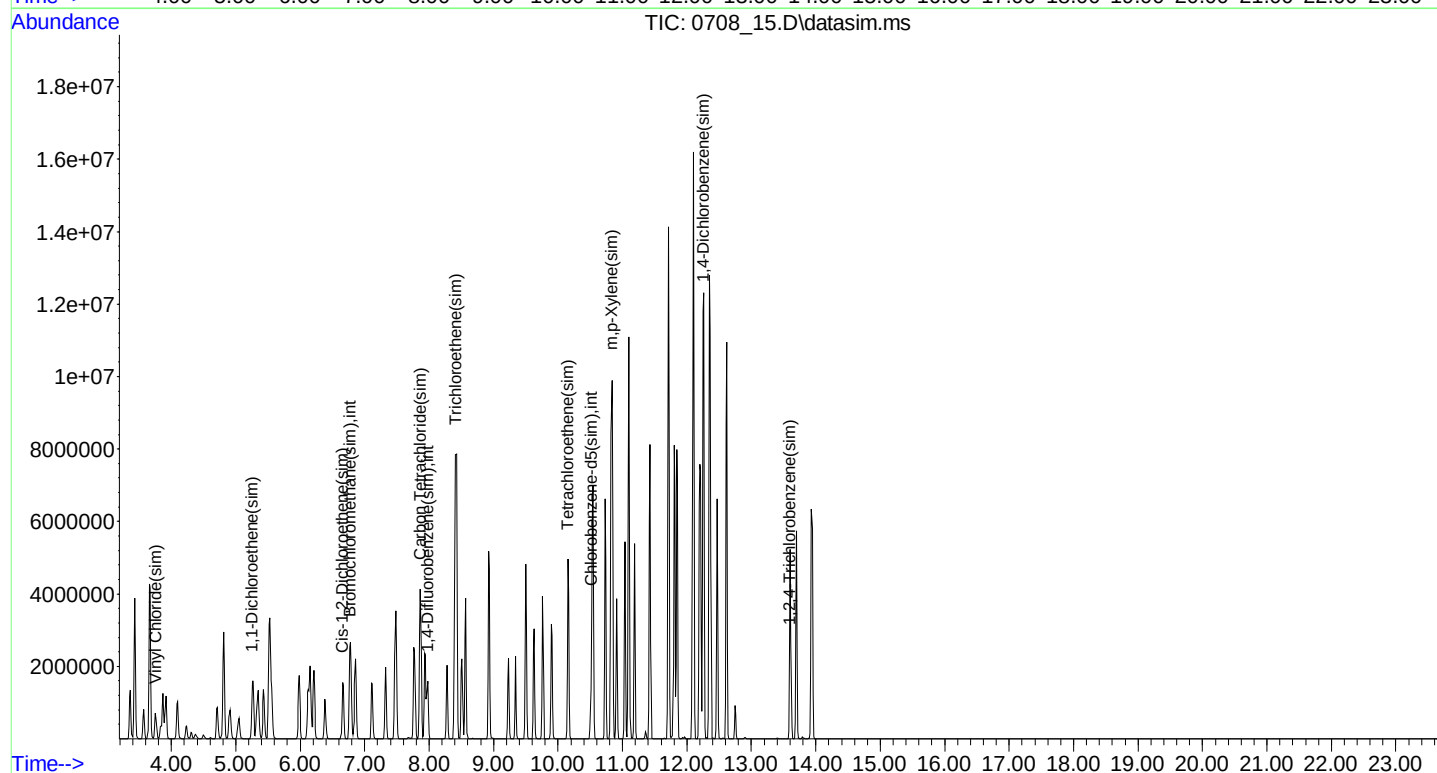
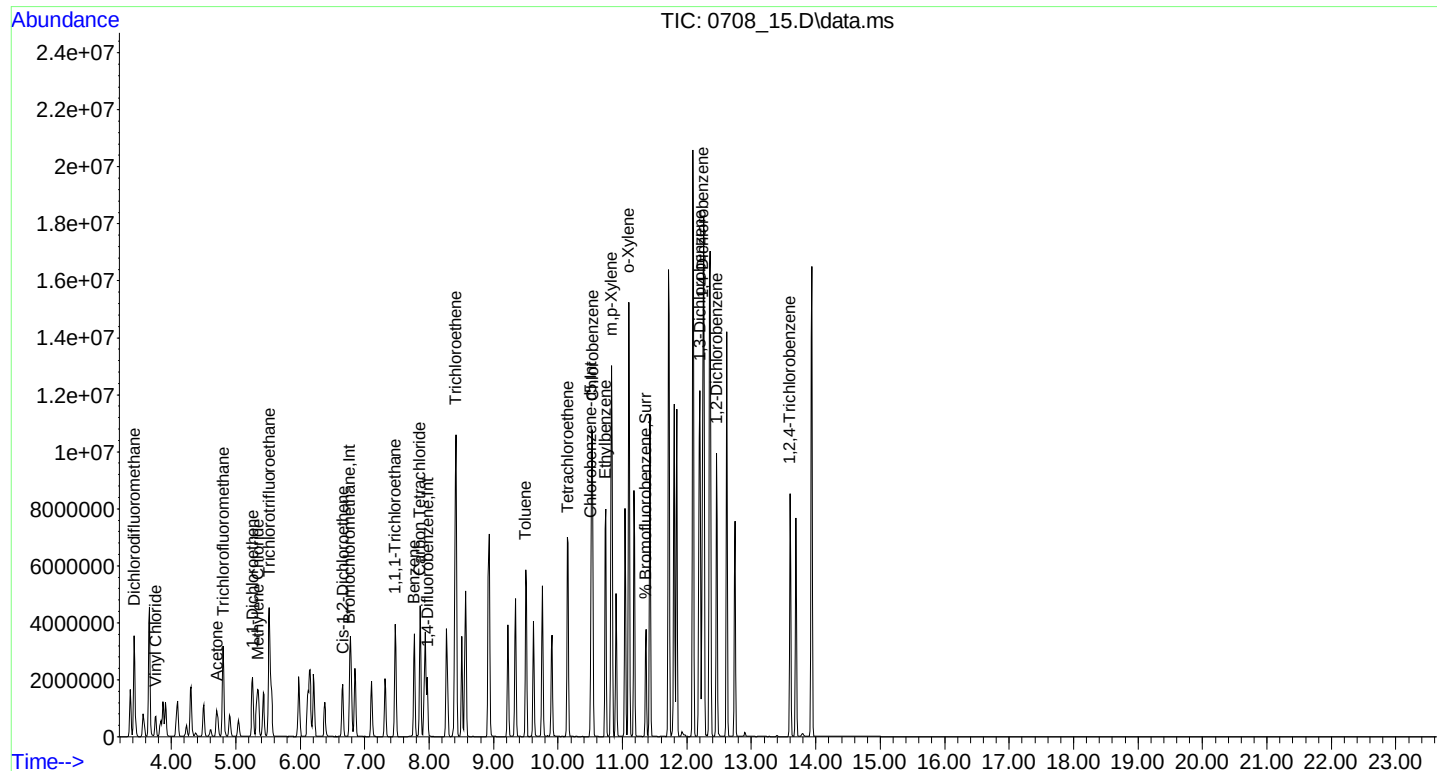
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 6.765  | 130   | 330935   | 10.000   | ng     | 0.00     |
| 36) 1,4-Difluorobenzene       | 7.971  | 114   | 1293948  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5          | 10.512 | 82    | 839178   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)   | 6.771  | 130   | 376086   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)  | 7.977  | 114   | 1485297  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)    | 10.518 | 82    | 906138   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 11.363 | 95    | 1127771  | 9.922    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 99.20%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane    | 3.425  | 85    | 3320577  | 25.688   | ppbv   | 99       |
| 6) Vinyl Chloride             | 3.759  | 62    | 807098   | 25.536   | ppbv   | 99       |
| 12) Acetone                   | 4.708  | 43    | 1210458  | 24.002   | ppbv   | 98       |
| 13) Trichlorofluoromethane    | 4.805  | 101   | 2827942  | 24.295   | ppbv   | 100      |
| 16) 1,1-Dichloroethene        | 5.262  | 61    | 1354198  | 24.997   | ppbv   | 99       |
| 17) Methylene Chloride        | 5.348  | 49    | 812134   | 23.609   | ppbv   | 99       |
| 21) Trichlorotrifluoroethane  | 5.520  | 101   | 1835821  | 24.265   | ppbv   | 100      |
| 26) Cis-1,2-Dichloroethene    | 6.661  | 61    | 1079494  | 25.933   | ppbv   | 96       |
| 32) 1,1,1-Trichloroethane     | 7.473  | 97    | 2301835  | 25.761   | ppbv   | 99       |
| 33) Benzene                   | 7.771  | 78    | 2794292  | 27.578   | ppbv   | 97       |
| 34) Carbon Tetrachloride      | 7.860  | 117   | 2502514  | 26.660   | ppbv   | 100      |
| 39) Trichloroethene           | 8.417  | 130   | 1250872  | 26.725   | ppbv   | 99       |
| 48) Toluene                   | 9.495  | 91    | 3691912  | 31.423   | ppbv   | 99       |
| 52) Tetrachloroethene         | 10.155 | 166   | 1602089  | 29.297   | ppbv   | 99       |
| 55) Chlorobenzene             | 10.533 | 112   | 2889673  | 23.660   | ppbv   | 98       |
| 56) Ethylbenzene              | 10.738 | 91    | 5003341  | 28.818   | ppbv   | 98       |
| 57) m,p-Xylene                | 10.830 | 91    | 8020023  | 57.244   | ppbv   | 98       |
| 61) o-Xylene                  | 11.097 | 91    | 4304908  | 27.567   | ppbv   | 99       |
| 71) 1,3-Dichlorobenzene       | 12.204 | 146   | 3417592  | 27.721   | ppbv   | 99       |
| 72) 1,4-Dichlorobenzene       | 12.245 | 146   | 3295468  | 28.481   | ppbv   | 99       |
| 75) 1,2-Dichlorobenzene       | 12.461 | 146   | 3365132  | 28.273   | ppbv   | 99       |
| 77) 1,2,4-Trichlorobenzene    | 13.600 | 180   | 2051991  | 31.793   | ppbv   | 99       |
| 82) Vinyl Chloride(sim)       | 3.754  | 62    | 891674   | 24.091   | ppbv   | 100      |
| 87) Carbon Tetrachloride(sim) | 7.860  | 117   | 2502786  | 27.789   | ppbv   | 100      |
| 88) 1,1-Dichloroethene(sim)   | 5.259  | 61    | 1521180  | 23.531   | ppbv   | 99       |
| 92) Cis-1,2-Dichloroethene... | 6.656  | 61    | 1063695  | 23.780   | ppbv   | 97       |
| 97) Trichloroethene(sim)      | 8.417  | 130   | 1250846  | 25.924   | ppbv   | 98       |
| 103) Tetrachloroethene(sim)   | 10.155 | 166   | 1602089  | 30.444   | ppbv   | 99       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_15.D  
 Acq On : 8 Jul 2020 7:11 pm  
 Operator :  
 Client ID : ICAL 25  
 Lab ID : 25  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 09 10:24:15 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:24:10 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_16.D  
 Acq On : 8 Jul 2020 7:51 pm  
 Operator :  
 Client ID : ICAL 40  
 Lab ID : 40  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 09 10:23:54 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 11:23:47 2020  
 Response via : Initial Calibration

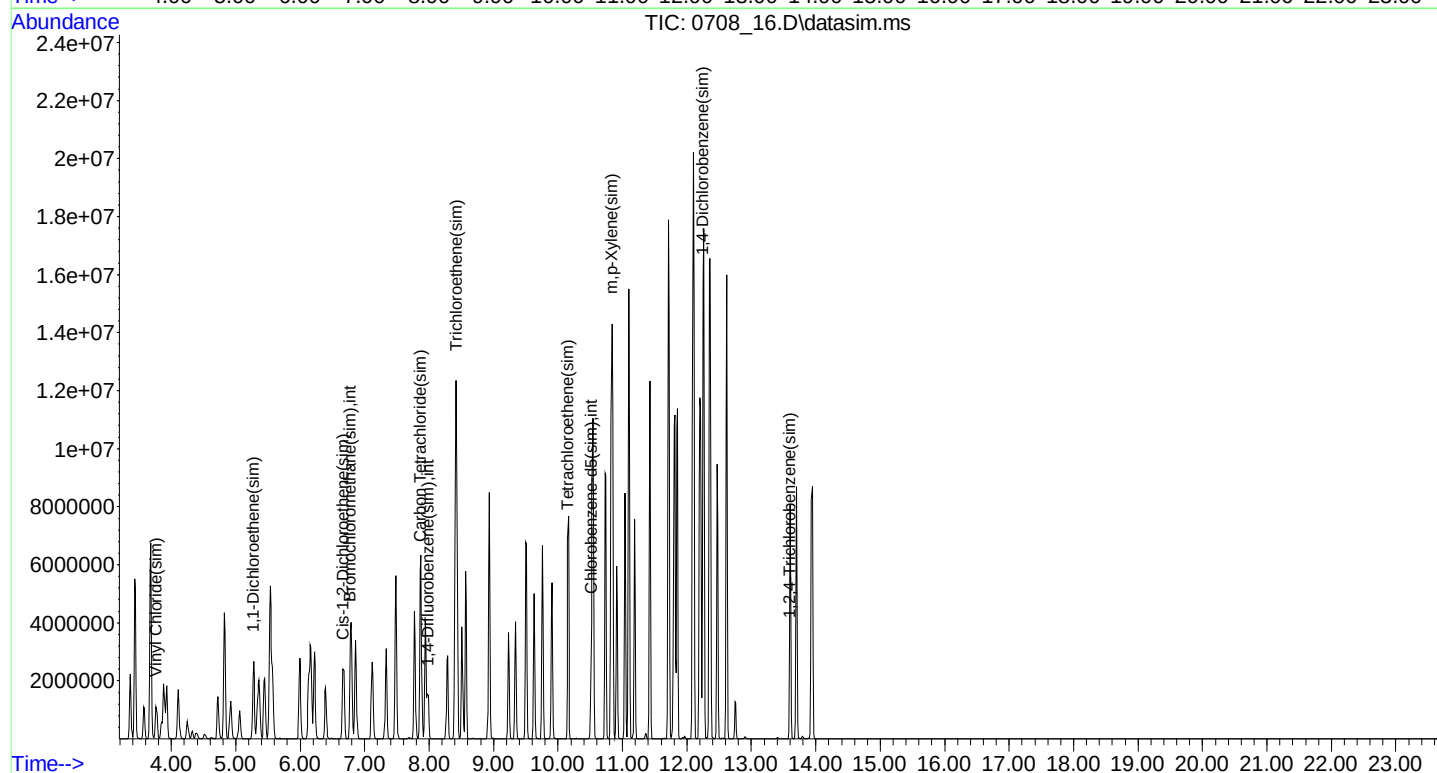
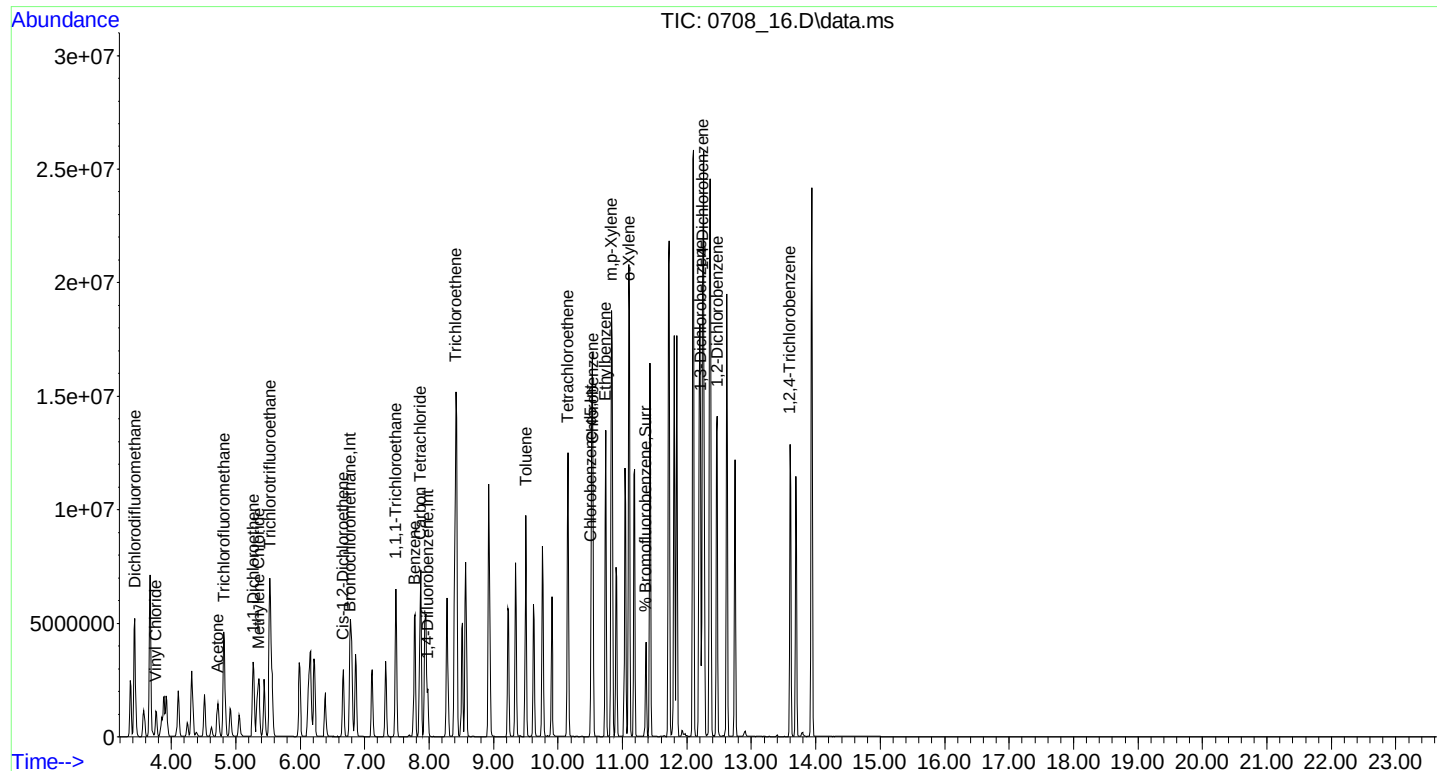
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 6.773  | 130   | 341781   | 10.000   | ng     | 0.00     |
| 36) 1,4-Difluorobenzene       | 7.980  | 114   | 1365202  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5          | 10.512 | 82    | 922588   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)   | 6.779  | 130   | 390312   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)  | 7.985  | 114   | 1575529  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)    | 10.517 | 82    | 994618   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 62) % Bromofluorobenzene      | 11.363 | 95    | 1181219  | 9.201    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 92.00%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane    | 3.436  | 85    | 5319811  | 39.848   | ppbv   | 100      |
| 6) Vinyl Chloride             | 3.759  | 62    | 1315325  | 40.295   | ppbv   | 99       |
| 12) Acetone                   | 4.718  | 43    | 1971908  | 37.859   | ppbv   | 99       |
| 13) Trichlorofluoromethane    | 4.815  | 101   | 4461957  | 37.116   | ppbv   | 100      |
| 16) 1,1-Dichloroethene        | 5.270  | 61    | 2205334  | 39.417   | ppbv   | 98       |
| 17) Methylene Chloride        | 5.356  | 49    | 1314084  | 36.988   | ppbv   | 99       |
| 21) Trichlorotrifluoroethane  | 5.529  | 101   | 2911646  | 37.263   | ppbv   | 99       |
| 26) Cis-1,2-Dichloroethene    | 6.669  | 61    | 1631734  | 37.955   | ppbv   | 95       |
| 32) 1,1,1-Trichloroethane     | 7.481  | 97    | 3830574  | 41.509   | ppbv   | 98       |
| 33) Benzene                   | 7.779  | 78    | 4629873  | 44.244   | ppbv   | 98       |
| 34) Carbon Tetrachloride      | 7.868  | 117   | 4191377  | 43.235   | ppbv   | 99       |
| 39) Trichloroethene           | 8.414  | 130   | 1997134  | 40.442   | ppbv   | 97       |
| 48) Toluene                   | 9.504  | 91    | 5955291  | 48.042   | ppbv   | 98       |
| 52) Tetrachloroethene         | 10.154 | 166   | 2720461  | 47.152   | ppbv   | 98       |
| 55) Chlorobenzene             | 10.543 | 112   | 4668826  | 34.771   | ppbv   | 96       |
| 56) Ethylbenzene              | 10.737 | 91    | 7913413  | 42.228   | ppbv   | 97       |
| 57) m, p-Xylene               | 10.830 | 91    | 12312169 | 79.902   | ppbv   | 95       |
| 61) o-Xylene                  | 11.106 | 91    | 6486207  | 36.759   | ppbv   | 99       |
| 71) 1,3-Dichlorobenzene       | 12.214 | 146   | 5330277  | 39.327   | ppbv   | 99       |
| 72) 1,4-Dichlorobenzene       | 12.245 | 146   | 5053534  | 39.727   | ppbv   | 99       |
| 75) 1,2-Dichlorobenzene       | 12.470 | 146   | 5327824  | 40.716   | ppbv   | 98       |
| 77) 1,2,4-Trichlorobenzene    | 13.599 | 180   | 3428645  | 48.320   | ppbv   | 99       |
| 82) Vinyl Chloride(sim)       | 3.765  | 62    | 1462464  | 38.072   | ppbv   | 100      |
| 87) Carbon Tetrachloride(sim) | 7.868  | 117   | 4192399  | 44.853   | ppbv   | 99       |
| 88) 1,1-Dichloroethene(sim)   | 5.276  | 61    | 2468569  | 36.794   | ppbv   | 98       |
| 92) Cis-1,2-Dichloroethene... | 6.664  | 61    | 1732270  | 37.315   | ppbv   | 99       |
| 97) Trichloroethene(sim)      | 8.414  | 130   | 1997647  | 39.030   | ppbv   | 96       |
| 103) Tetrachloroethene(sim)   | 10.154 | 166   | 2720327  | 48.733   | ppbv   | 98       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_16.D  
 Acq On : 8 Jul 2020 7:51 pm  
 Operator :  
 Client ID : ICAL 40  
 Lab ID : 40  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 09 10:23:54 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:23:47 2020  
 Response via : Initial Calibration





## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_18.D  
 Acq On : 8 Jul 2020 9:02 pm  
 Operator :  
 Client ID : ICAL 1  
 Lab ID : 1  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 13 14:14:08 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Tue Oct 13 15:06:53 2020  
 Response via : Initial Calibration

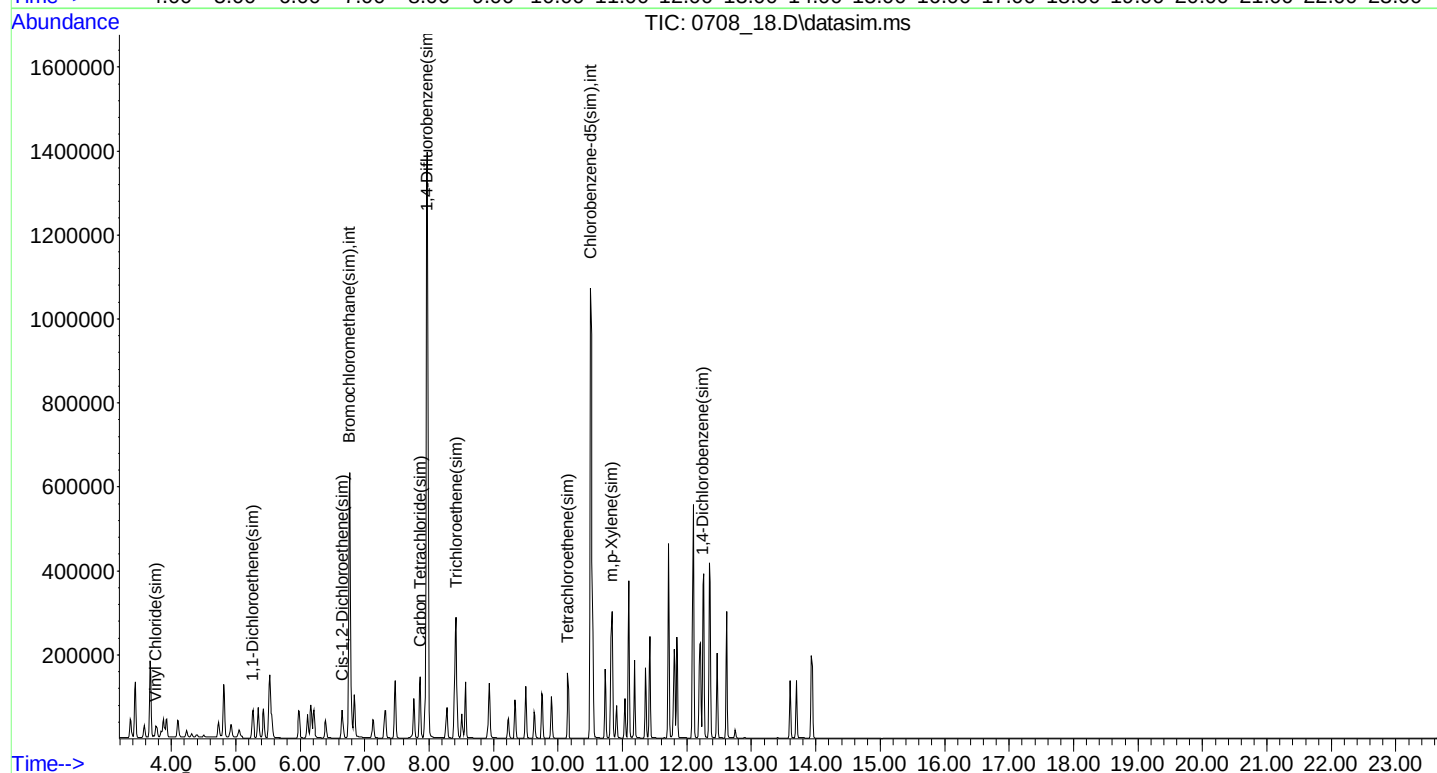
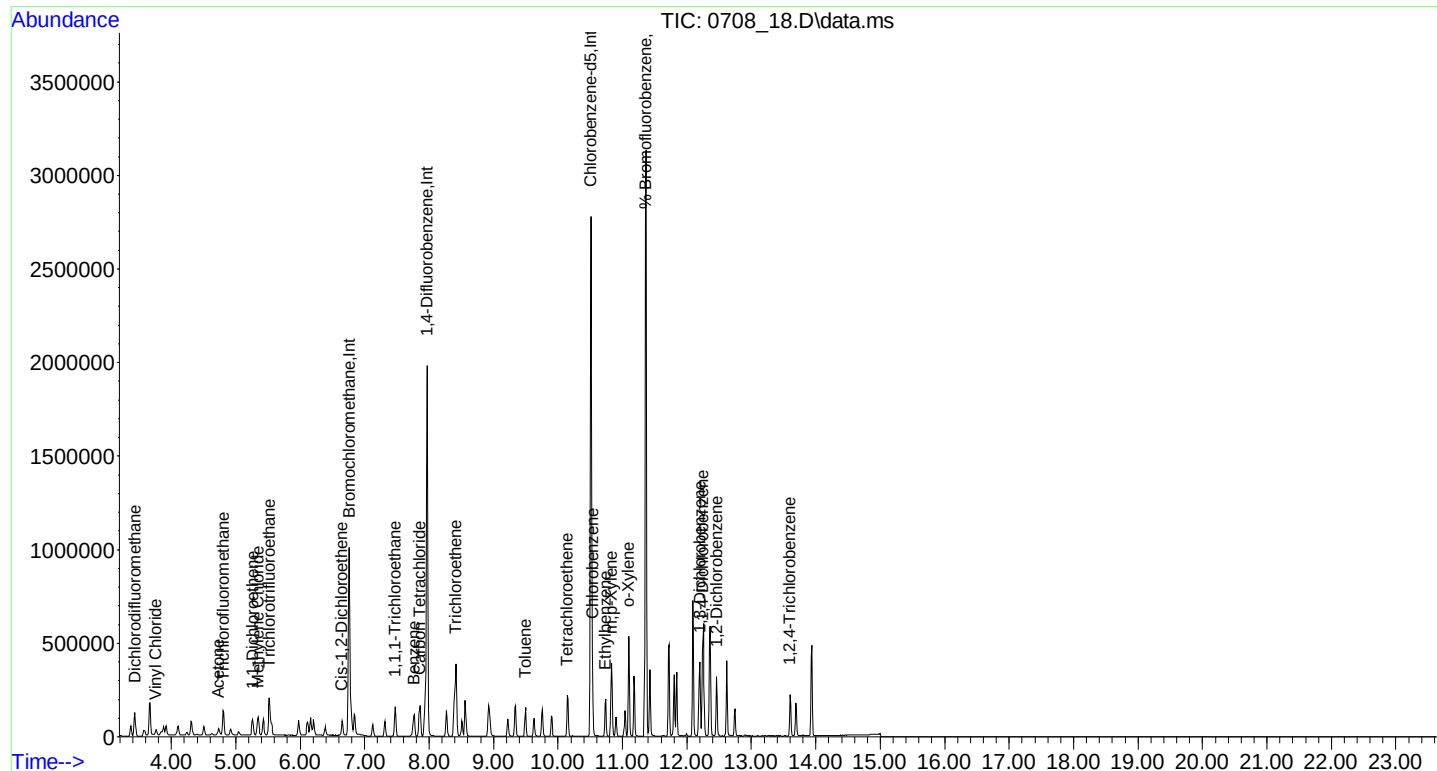
| Compound                      | R.T.   | QIon           | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|--------|----------------|----------|--------|---------|----------|
| Internal Standards            |        |                |          |        |         |          |
| 1) Bromochloromethane         | 6.763  | 130            | 320265   | 10.000 | ng      | 0.02     |
| 15) 1,4-Difluorobenzene       | 7.969  | 114            | 1252324  | 10.000 | ng      | 0.01     |
| 20) Chlorobenzene-d5          | 10.512 | 82             | 696930   | 10.000 | ng      | 0.00     |
| 30) Bromochloromethane(sim)   | 6.768  | 130            | 363595   | 10.000 | ng      | # 0.02   |
| 41) 1,4-Difluorobenzene(sim)  | 7.969  | 114            | 1252324  | 10.000 | ng      | 0.00     |
| 47) Chlorobenzene-d5(sim)     | 10.512 | 82             | 696930   | 10.000 | ng      | 0.00     |
| System Monitoring Compounds   |        |                |          |        |         |          |
| 25) % Bromofluorobenzene      | 11.363 | 95             | 970709   | 10.144 | ppbv    | 0.01     |
| Spiked Amount                 | 10.000 | Range 70 - 130 | Recovery | =      | 101.40% |          |
| Target Compounds              |        |                |          |        |         |          |
|                               |        |                |          |        | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 3.436  | 85             | 120772   | 0.965  | ppbv#   | 89       |
| 3) Vinyl Chloride             | 3.759  | 62             | 30044    | 0.982  | ppbv    | 96       |
| 4) Acetone                    | 4.729  | 43             | 46501    | 0.953  | ppbv#   | 80       |
| 5) Trichlorofluoromethane     | 4.805  | 101            | 111497   | 0.990  | ppbv    | 93       |
| 6) 1,1-Dichloroethene         | 5.262  | 61             | 51026    | 0.973  | ppbv    | 89       |
| 7) Methylene Chloride         | 5.348  | 49             | 33509    | 1.007  | ppbv#   | 87       |
| 8) Trichlorotrifluoroethane   | 5.520  | 101            | 73757    | 1.007  | ppbv    | 96       |
| 10) Cis-1,2-Dichloroethene    | 6.648  | 61             | 44380    | 1.102  | ppbv    | 87       |
| 12) 1,1,1-Trichloroethane     | 7.471  | 97             | 85945    | 0.994  | ppbv    | 98       |
| 13) Benzene                   | 7.768  | 78             | 93384    | 0.952  | ppbv    | 96       |
| 14) Carbon Tetrachloride      | 7.857  | 117            | 87601    | 0.964  | ppbv    | 89       |
| 17) Trichloroethene           | 8.414  | 130            | 41860    | 0.924  | ppbv    | 98       |
| 18) Toluene                   | 9.494  | 91             | 92861    | 0.817  | ppbv    | 97       |
| 19) Tetrachloroethene         | 10.145 | 166            | 46859    | 0.885  | ppbv    | 87       |
| 21) Chlorobenzene             | 10.532 | 112            | 103696   | 1.022  | ppbv#   | 1        |
| 22) Ethylbenzene              | 10.737 | 91             | 108701   | 0.650  | ppbv    | 97       |
| 23) m,p-Xylene                | 10.830 | 91             | 211920   | 1.467  | ppbv#   | 88       |
| 24) o-Xylene                  | 11.096 | 91             | 109621   | 0.696  | ppbv    | 96       |
| 26) 1,3-Dichlorobenzene       | 12.204 | 146            | 104199   | 1.018  | ppbv#   | 90       |
| 27) 1,4-Dichlorobenzene       | 12.245 | 146            | 95401    | 0.993  | ppbv#   | 94       |
| 28) 1,2-Dichlorobenzene       | 12.460 | 146            | 97283    | 0.984  | ppbv    | 96       |
| 29) 1,2,4-Trichlorobenzene    | 13.599 | 180            | 53792    | 1.004  | ppbv#   | 87       |
| 31) Vinyl Chloride(sim)       | 3.759  | 62             | 30044    | 0.840  | ppbv    | 97       |
| 35) Carbon Tetrachloride(sim) | 7.857  | 117            | 87601    | 1.006  | ppbv    | 89       |
| 36) 1,1-Dichloroethene(sim)   | 5.267  | 61             | 58679    | 0.939  | ppbv    | 96       |
| 40) Cis-1,2-Dichloroethene... | 6.654  | 61             | 41207    | 0.953  | ppbv    | 97       |
| 44) Trichloroethene(sim)      | 8.420  | 130            | 52687    | 1.295  | ppbv    | 97       |
| 46) Tetrachloroethene(sim)    | 10.150 | 166            | 62698m   | 1.413  | ppbv    | 93       |
| 48) m,p-Xylene(sim)           | 10.835 | 91             | 237275   | 2.235  | ppbv    | 96       |
| 50) 1,4-Dichlorobenzene(sim)  | 12.250 | 146            | 117165   | 1.172  | ppbv    | 99       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_18.D  
 Acq On : 8 Jul 2020 9:02 pm  
 Operator :  
 Client ID : ICAL 1  
 Lab ID : 1  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 13 14:14:08 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Tue Oct 13 15:06:53 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_19.D  
 Acq On : 8 Jul 2020 9:38 pm  
 Operator :  
 Client ID : ICAL 10  
 Lab ID : 10  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 10 13:29:39 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Tue Nov 10 13:29:32 2020  
 Response via : Initial Calibration

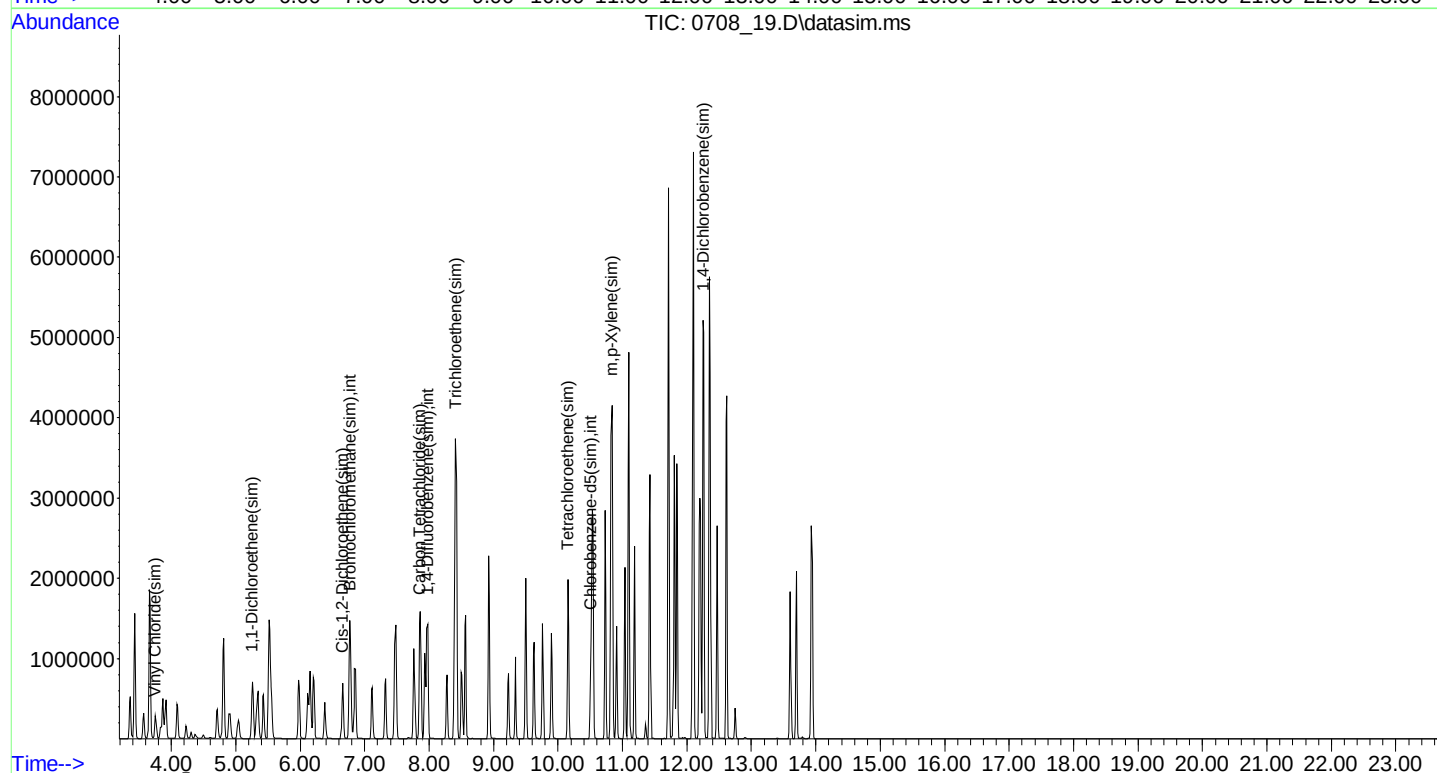
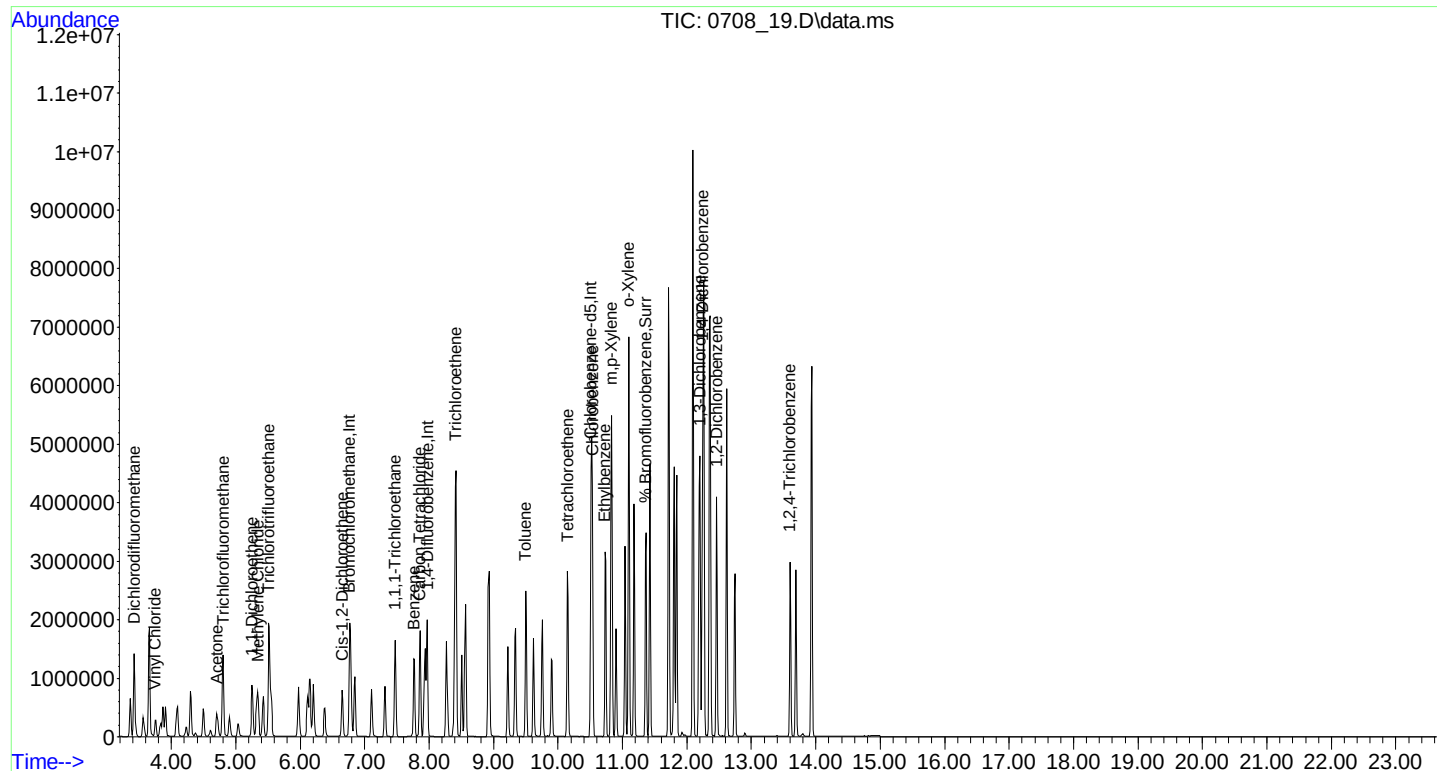
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 6.765  | 130   | 330497   | 10.000   | ng     | 0.02     |
| 15) 1,4-Difluorobenzene       | 7.971  | 114   | 1276015  | 10.000   | ng     | 0.01     |
| 20) Chlorobenzene-d5          | 10.512 | 82    | 777213   | 10.000   | ng     | 0.01     |
| 30) Bromochloromethane(sim)   | 6.771  | 130   | 372731   | 10.000   | ng     | # 0.02   |
| 41) 1,4-Difluorobenzene(sim)  | 7.971  | 114   | 1276015  | 10.000   | ng     | 0.00     |
| 47) Chlorobenzene-d5(sim)     | 10.512 | 82    | 777213   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 25) % Bromofluorobenzene      | 11.363 | 95    | 1080385  | 10.124   | ppbv   | 0.01     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 101.20%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 3.425  | 85    | 1310275  | 10.150   | ppbv#  | 89       |
| 3) Vinyl Chloride             | 3.748  | 62    | 318466   | 10.089   | ppbv   | 95       |
| 4) Acetone                    | 4.708  | 43    | 488385   | 9.697    | ppbv#  | 84       |
| 5) Trichlorofluoromethane     | 4.805  | 101   | 1178650  | 10.139   | ppbv   | 96       |
| 6) 1,1-Dichloroethene         | 5.253  | 61    | 553169   | 10.225   | ppbv#  | 85       |
| 7) Methylene Chloride         | 5.339  | 49    | 332218   | 9.670    | ppbv#  | 86       |
| 8) Trichlorotrifluoroethane   | 5.512  | 101   | 769652   | 10.186   | ppbv   | 96       |
| 10) Cis-1,2-Dichloroethene    | 6.651  | 61    | 462393   | 11.123   | ppbv   | 88       |
| 12) 1,1,1-Trichloroethane     | 7.473  | 97    | 925484   | 10.371   | ppbv   | 97       |
| 13) Benzene                   | 7.771  | 78    | 1103559  | 10.906   | ppbv   | 98       |
| 14) Carbon Tetrachloride      | 7.860  | 117   | 990693   | 10.568   | ppbv   | 90       |
| 17) Trichloroethene           | 8.417  | 130   | 516829   | 11.197   | ppbv   | 96       |
| 18) Toluene                   | 9.495  | 91    | 1425964  | 12.307   | ppbv   | 95       |
| 19) Tetrachloroethene         | 10.146 | 166   | 598831   | 11.105   | ppbv   | 91       |
| 21) Chlorobenzene             | 10.533 | 112   | 1156651  | 10.225   | ppbv#  | 1        |
| 22) Ethylbenzene              | 10.728 | 91    | 1945153  | 10.664   | ppbv   | 98       |
| 23) m,p-Xylene                | 10.830 | 91    | 3301757  | 21.468   | ppbv#  | 86       |
| 24) o-Xylene                  | 11.097 | 91    | 1750455  | 10.499   | ppbv   | 95       |
| 26) 1,3-Dichlorobenzene       | 12.204 | 146   | 1316956  | 11.534   | ppbv#  | 92       |
| 27) 1,4-Dichlorobenzene       | 12.245 | 146   | 1259282  | 11.751   | ppbv   | 95       |
| 28) 1,2-Dichlorobenzene       | 12.461 | 146   | 1273257  | 11.551   | ppbv   | 98       |
| 29) 1,2,4-Trichlorobenzene    | 13.600 | 180   | 680362   | 11.382   | ppbv#  | 88       |
| 31) Vinyl Chloride(sim)       | 3.748  | 62    | 318466   | 8.682    | ppbv   | 97       |
| 35) Carbon Tetrachloride(sim) | 7.860  | 117   | 990848   | 11.101   | ppbv   | 90       |
| 36) 1,1-Dichloroethene(sim)   | 5.259  | 61    | 626888   | 9.784    | ppbv   | 95       |
| 40) Cis-1,2-Dichloroethene... | 6.656  | 61    | 454999   | 10.264   | ppbv   | 98       |
| 44) Trichloroethene(sim)      | 8.411  | 130   | 629628   | 15.189   | ppbv   | 95       |
| 46) Tetrachloroethene(sim)    | 10.151 | 166   | 779592   | 17.244   | ppbv   | 94       |
| 48) m,p-Xylene(sim)           | 10.836 | 91    | 3581786  | 16.122   | ppbv#  | 95       |
| 50) 1,4-Dichlorobenzene(sim)  | 12.251 | 146   | 1500759  | 8.612    | ppbv   | 98       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_19.D  
 Acq On : 8 Jul 2020 9:38 pm  
 Operator :  
 Client ID : ICAL 10  
 Lab ID : 10  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 10 13:29:39 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Tue Nov 10 13:29:32 2020  
 Response via : Initial Calibration



7A  
AIR CONTINUING CALIBRATION CHECK  
Initial Cal as Continuing Cal

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.:                      SAS No.:                      SDG No.: GCG29877

Instrument: CHEM20 Calibration Date: 07/08/20 Time: 21:02

Lab File Id: 0708\_18.D Init. Calib. Date(s): 07/08/20 07/08/20

Heated Purge (Y/N): Y Init. Calib. Times: 14:16 21:38

GC Column: RTX-1 60M Method File: 20\_AIR\_0708\_wal.M

| COMPOUND                     | RRF   | RRF50 | RRF MIN | %D     | % D LIMITS |
|------------------------------|-------|-------|---------|--------|------------|
| Dichlorodifluoromethane      | 3.906 | 3.771 |         | 3.5    | 30         |
| Vinyl Chloride               | 0.955 | 0.938 |         | 1.8    | 30         |
| Acetone                      | 1.524 | 1.452 |         | 4.7    | 30         |
| Trichlorofluoromethane       | 3.517 | 3.481 |         | 1.0    | 30         |
| 1,1-Dichloroethene           | 1.637 | 1.593 |         | 2.7    | 30         |
| Methylene Chloride           | 1.039 | 1.046 |         | -0.7   | 30         |
| Trichlorotrifluoroethane     | 2.286 | 2.303 |         | -0.7   | 30         |
| Cis-1,2-Dichloroethene       | 1.258 | 1.386 |         | -10.2  | 30         |
| 1,1,1-Trichloroethane        | 2.700 | 2.684 |         | 0.6    | 30         |
| Benzene                      | 3.062 | 2.916 |         | 4.8    | 30         |
| Carbon Tetrachloride         | 2.836 | 2.735 |         | 3.6    | 30         |
| Trichloroethene              | 0.362 | 0.334 |         | 7.7    | 30         |
| Toluene                      | 0.908 | 0.742 |         | 18.3   | 30         |
| Tetrachloroethene            | 0.423 | 0.374 |         | 11.6   | 30         |
| Chlorobenzene                | 1.455 | 1.488 |         | -2.3   | 30         |
| Ethylbenzene qfi             | 1.000 | 0.65  |         | 35.0 # | 20         |
| m,p-Xylene qfi               | 2.500 | 1.47  |         | 41.2 # | 20         |
| o-Xylene qfi                 | 1.000 | 0.70  |         | 30.0 # | 20         |
| 1,3-Dichlorobenzene          | 1.469 | 1.495 |         | -1.8   | 30         |
| 1,4-Dichlorobenzene          | 1.379 | 1.369 |         | 0.7    | 30         |
| 1,2-Dichlorobenzene          | 1.418 | 1.396 |         | 1.6    | 30         |
| 1,2,4-Trichlorobenzene       | 0.769 | 0.772 |         | -0.4   | 30         |
| Vinyl Chloride(sim)          | 0.984 | 0.907 |         | 7.8    | 30         |
| Carbon Tetrachloride(sim)    | 2.395 | 2.405 |         | -0.4   | 30         |
| 1,1-Dichloroethene(sim)      | 1.719 | 1.611 |         | 6.3    | 30         |
| Cis-1,2-Dichloroethene(sim)  | 1.189 | 1.131 |         | 4.9    | 30         |
| Trichloroethene(sim)         | 0.325 | 0.291 |         | 10.5   | 30         |
| Tetrachloroethene(sim)       | 0.354 | 0.326 |         | 7.9    | 30         |
| m,p-Xylene(sim) qfi          | 2.000 | 2.23  |         | -11.5  | 20         |
| 1,4-Dichlorobenzene(sim) qfi | 1.000 | 1.17  |         | -17.0  | 20         |
| % Bromofluorobenzene         | 1.373 | 1.393 |         | -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.

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_18.D  
 Acq On : 8 Jul 2020 9:02 pm  
 Operator :  
 Client ID : ICAL 1  
 Lab ID : 1  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 13 14:14:08 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Tue Oct 13 15:06:53 2020  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon           | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|--------|----------------|----------|--------|---------|----------|
| Internal Standards            |        |                |          |        |         |          |
| 1) Bromochloromethane         | 6.763  | 130            | 320265   | 10.000 | ng      | 0.02     |
| 15) 1,4-Difluorobenzene       | 7.969  | 114            | 1252324  | 10.000 | ng      | 0.01     |
| 20) Chlorobenzene-d5          | 10.512 | 82             | 696930   | 10.000 | ng      | 0.00     |
| 30) Bromochloromethane(sim)   | 6.768  | 130            | 363595   | 10.000 | ng      | # 0.02   |
| 41) 1,4-Difluorobenzene(sim)  | 7.969  | 114            | 1252324  | 10.000 | ng      | 0.00     |
| 47) Chlorobenzene-d5(sim)     | 10.512 | 82             | 696930   | 10.000 | ng      | 0.00     |
| System Monitoring Compounds   |        |                |          |        |         |          |
| 25) % Bromofluorobenzene      | 11.363 | 95             | 970709   | 10.144 | ppbv    | 0.01     |
| Spiked Amount                 | 10.000 | Range 70 - 130 | Recovery | =      | 101.40% |          |
| Target Compounds              |        |                |          |        |         |          |
|                               |        |                |          |        | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 3.436  | 85             | 120772   | 0.965  | ppbv#   | 89       |
| 3) Vinyl Chloride             | 3.759  | 62             | 30044    | 0.982  | ppbv    | 96       |
| 4) Acetone                    | 4.729  | 43             | 46501    | 0.953  | ppbv#   | 80       |
| 5) Trichlorofluoromethane     | 4.805  | 101            | 111497   | 0.990  | ppbv    | 93       |
| 6) 1,1-Dichloroethene         | 5.262  | 61             | 51026    | 0.973  | ppbv    | 89       |
| 7) Methylene Chloride         | 5.348  | 49             | 33509    | 1.007  | ppbv#   | 87       |
| 8) Trichlorotrifluoroethane   | 5.520  | 101            | 73757    | 1.007  | ppbv    | 96       |
| 10) Cis-1,2-Dichloroethene    | 6.648  | 61             | 44380    | 1.102  | ppbv    | 87       |
| 12) 1,1,1-Trichloroethane     | 7.471  | 97             | 85945    | 0.994  | ppbv    | 98       |
| 13) Benzene                   | 7.768  | 78             | 93384    | 0.952  | ppbv    | 96       |
| 14) Carbon Tetrachloride      | 7.857  | 117            | 87601    | 0.964  | ppbv    | 89       |
| 17) Trichloroethene           | 8.414  | 130            | 41860    | 0.924  | ppbv    | 98       |
| 18) Toluene                   | 9.494  | 91             | 92861    | 0.817  | ppbv    | 97       |
| 19) Tetrachloroethene         | 10.145 | 166            | 46859    | 0.885  | ppbv    | 87       |
| 21) Chlorobenzene             | 10.532 | 112            | 103696   | 1.022  | ppbv#   | 1        |
| 22) Ethylbenzene              | 10.737 | 91             | 108701   | 0.650  | ppbv    | 97       |
| 23) m,p-Xylene                | 10.830 | 91             | 211920   | 1.467  | ppbv#   | 88       |
| 24) o-Xylene                  | 11.096 | 91             | 109621   | 0.696  | ppbv    | 96       |
| 26) 1,3-Dichlorobenzene       | 12.204 | 146            | 104199   | 1.018  | ppbv#   | 90       |
| 27) 1,4-Dichlorobenzene       | 12.245 | 146            | 95401    | 0.993  | ppbv#   | 94       |
| 28) 1,2-Dichlorobenzene       | 12.460 | 146            | 97283    | 0.984  | ppbv    | 96       |
| 29) 1,2,4-Trichlorobenzene    | 13.599 | 180            | 53792    | 1.004  | ppbv#   | 87       |
| 31) Vinyl Chloride(sim)       | 3.759  | 62             | 30044    | 0.840  | ppbv    | 97       |
| 35) Carbon Tetrachloride(sim) | 7.857  | 117            | 87601    | 1.006  | ppbv    | 89       |
| 36) 1,1-Dichloroethene(sim)   | 5.267  | 61             | 58679    | 0.939  | ppbv    | 96       |
| 40) Cis-1,2-Dichloroethene... | 6.654  | 61             | 41207    | 0.953  | ppbv    | 97       |
| 44) Trichloroethene(sim)      | 8.420  | 130            | 52687    | 1.295  | ppbv    | 97       |
| 46) Tetrachloroethene(sim)    | 10.150 | 166            | 62698m   | 1.413  | ppbv    | 93       |
| 48) m,p-Xylene(sim)           | 10.835 | 91             | 237275   | 2.235  | ppbv    | 96       |
| 50) 1,4-Dichlorobenzene(sim)  | 12.250 | 146            | 117165   | 1.172  | ppbv    | 99       |

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

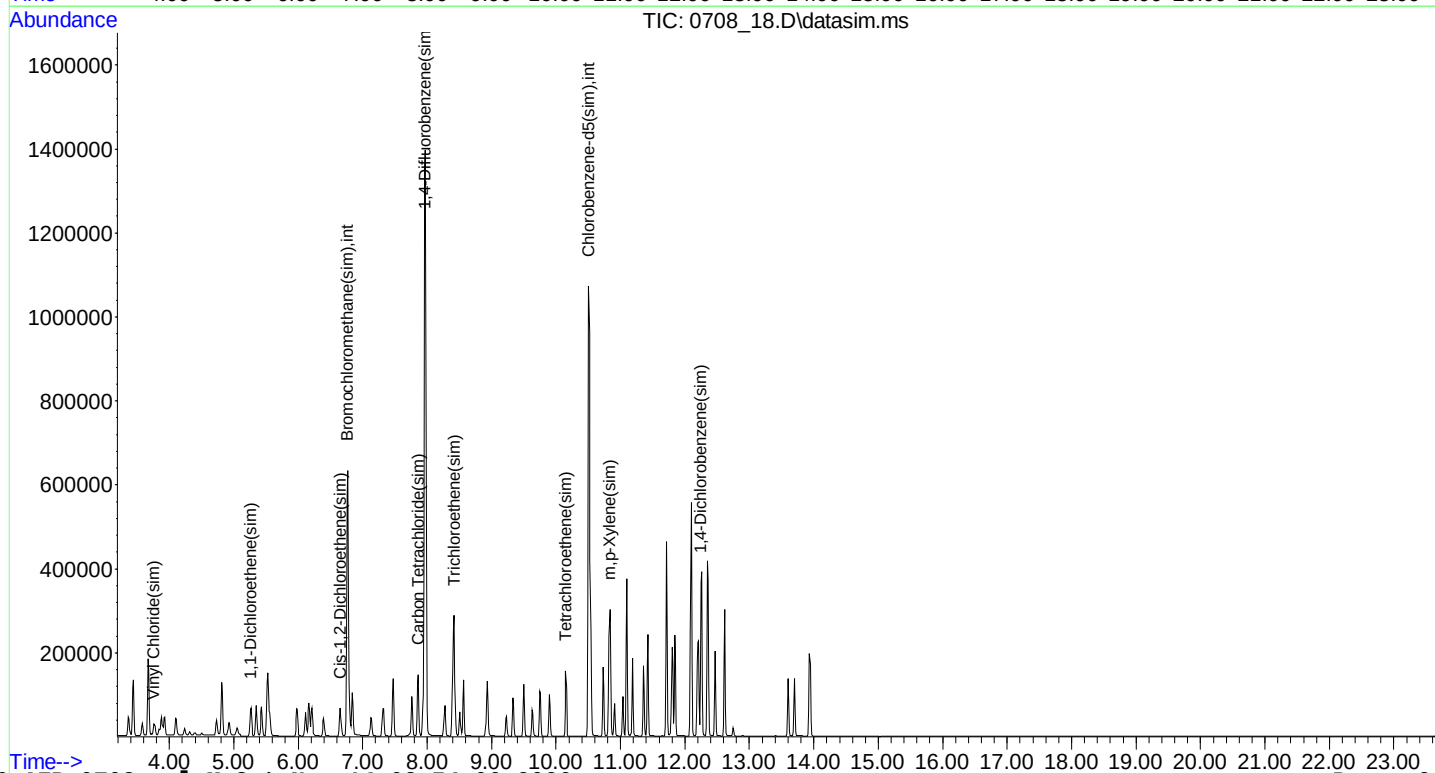
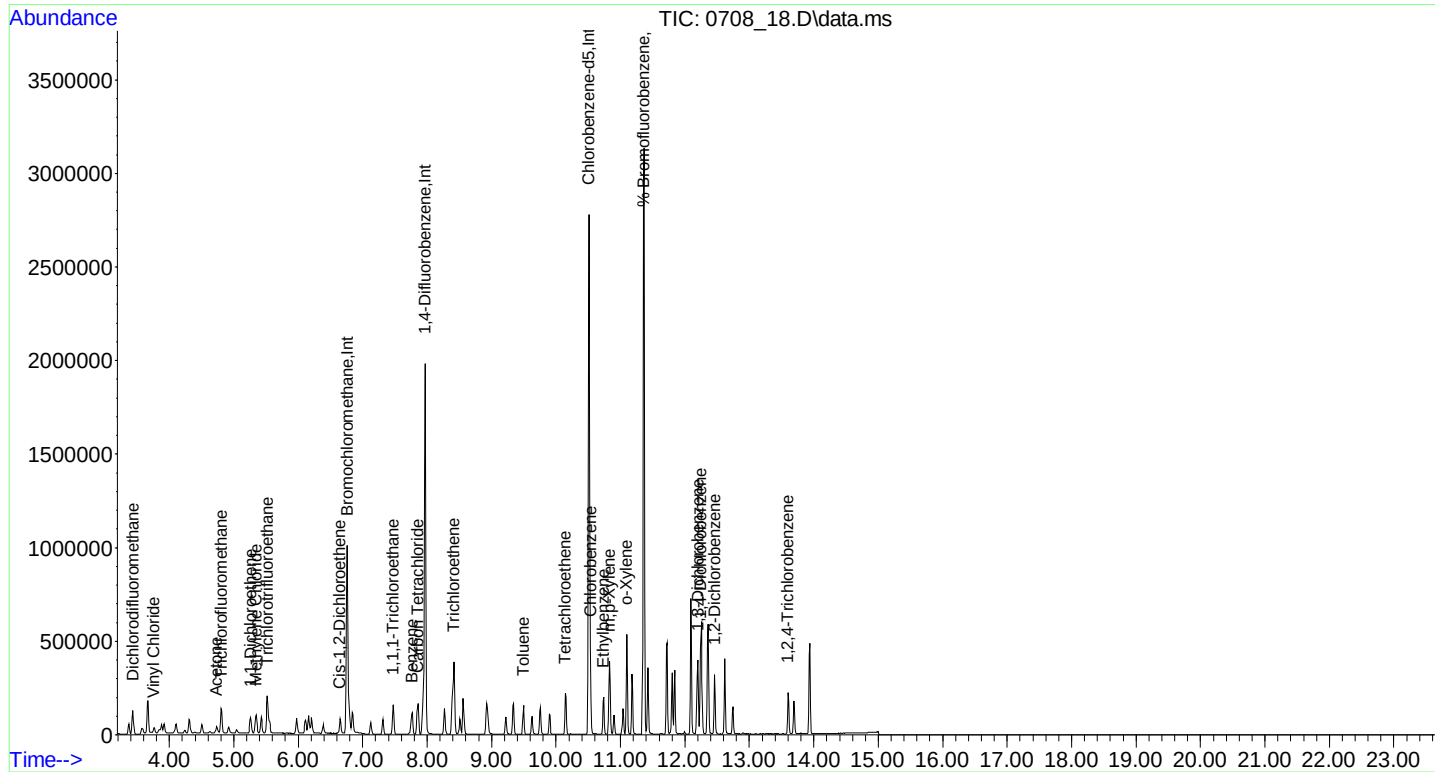
## Quantitation Report (RF) (QT Reviewed)

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Data Path   : H:\AIR2020\CHEM20\07JUL\08\
Data File   : 0708_18.D
Acq On      : 8 Jul 2020   9:02 pm
Operator
Client ID    : ICAL 1
Lab ID       : 1
ALS Vial     : 14   Sample Multiplier: 1

```

Quant Time: Oct 13 14:14:08 2020  
Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
Quant Title : VOA Standards for 5 point calibration  
QLast Update : Tue Oct 13 15:06:53 2020  
Response via : Initial Calibration







Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_20.D  
 Acq On : 8 Jul 2020 10:16 pm  
 Operator :  
 Client ID : CG29882 LCS  
 Lab ID : CG29882 LCS  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 13 13:59:17 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration

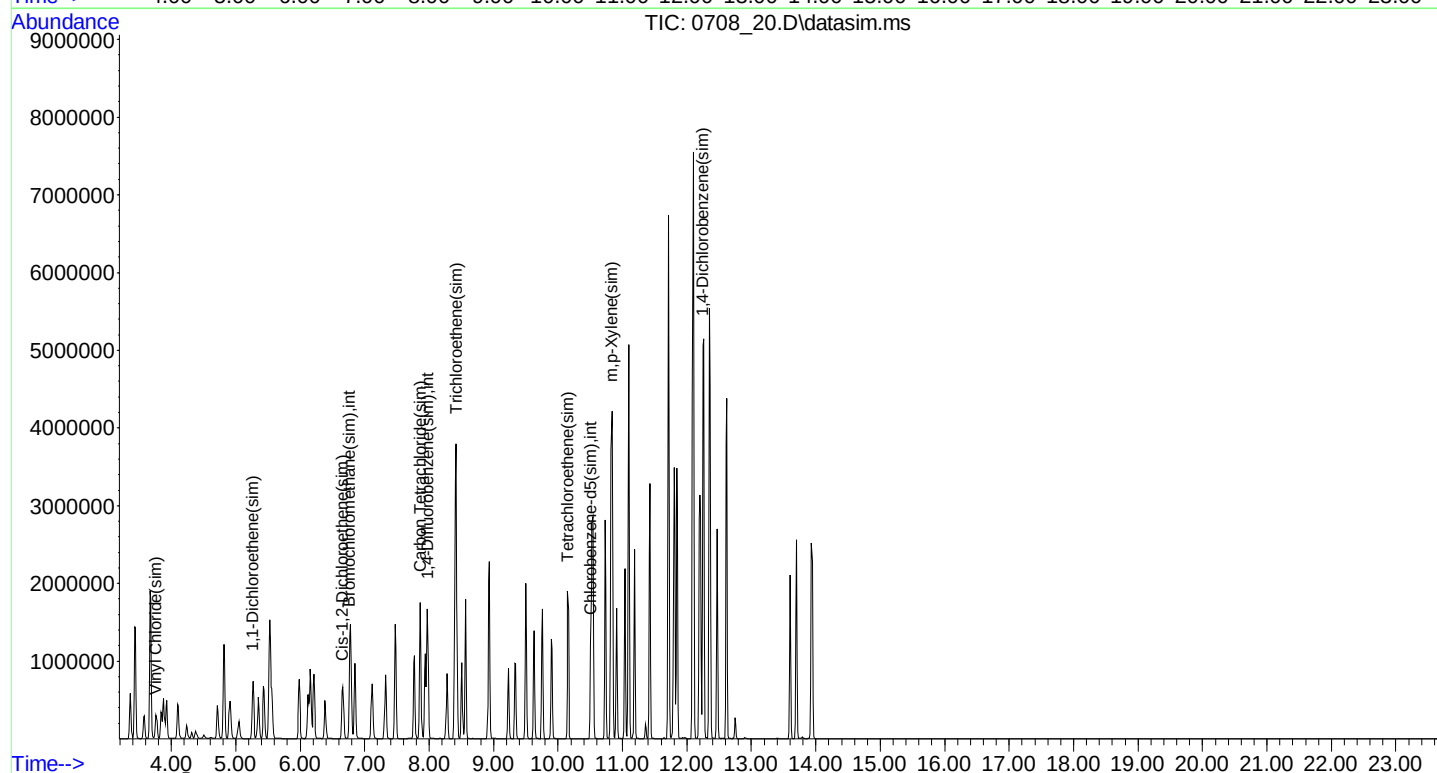
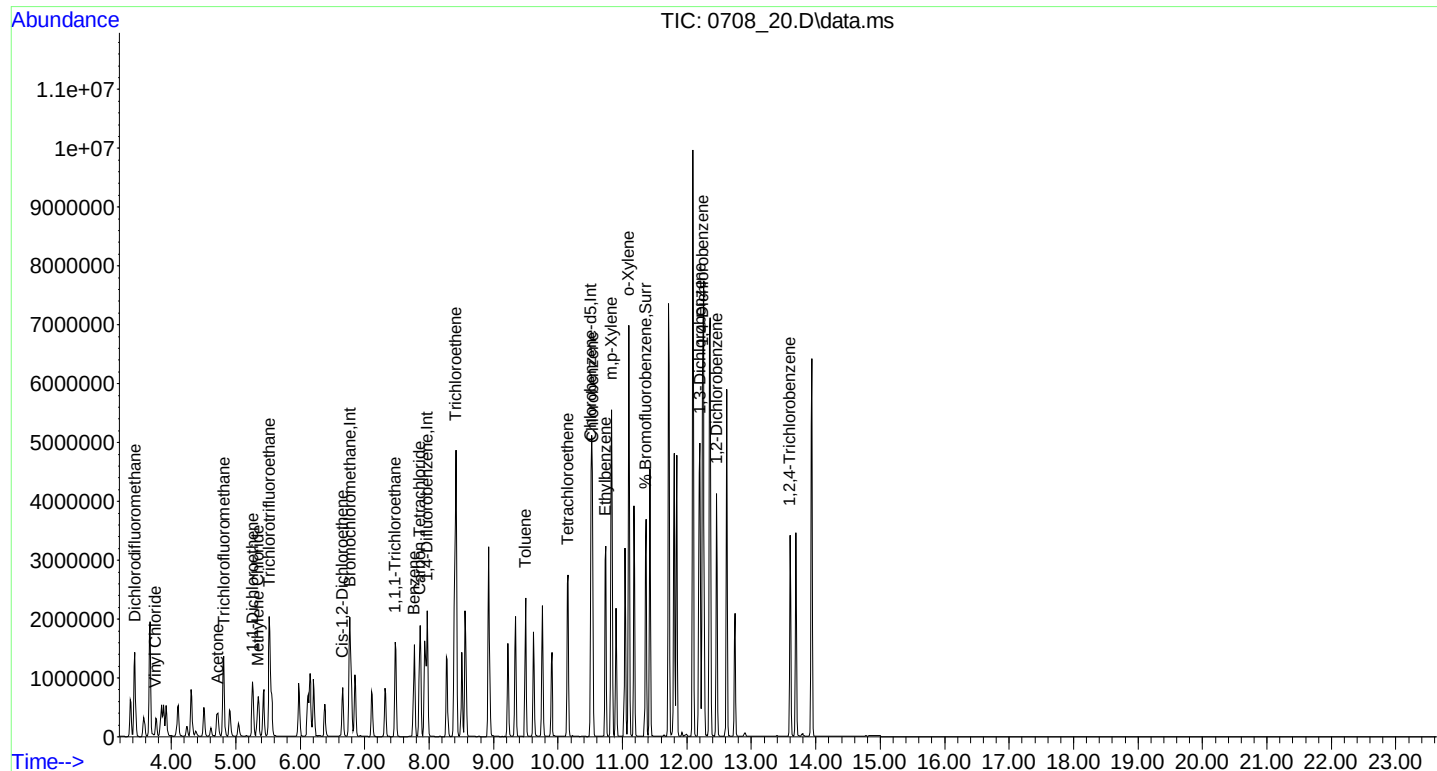
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 6.773  | 130   | 327065   | 10.000   | ng     | 0.03     |
| 15) 1,4-Difluorobenzene       | 7.969  | 114   | 1337116  | 10.000   | ng     | 0.01     |
| 20) Chlorobenzene-d5          | 10.512 | 82    | 793174   | 10.000   | ng     | 0.00     |
| 30) Bromochloromethane(sim)   | 6.768  | 130   | 372104   | 10.000   | ng     | # 0.02   |
| 41) 1,4-Difluorobenzene(sim)  | 7.969  | 114   | 1337116  | 10.000   | ng     | 0.00     |
| 47) Chlorobenzene-d5(sim)     | 10.512 | 82    | 793174   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 25) % Bromofluorobenzene      | 11.363 | 95    | 1108023  | 10.174   | ppbv   | 0.01     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 101.70%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 3.436  | 85    | 1399525  | 10.955   | ppbv#  | 89       |
| 3) Vinyl Chloride             | 3.759  | 62    | 339184   | 10.858   | ppbv   | 97       |
| 4) Acetone                    | 4.718  | 43    | 530692   | 10.647   | ppbv#  | 83       |
| 5) Trichlorofluoromethane     | 4.815  | 101   | 1199340  | 10.425   | ppbv   | 95       |
| 6) 1,1-Dichloroethene         | 5.262  | 61    | 568700   | 10.622   | ppbv#  | 85       |
| 7) Methylene Chloride         | 5.348  | 49    | 338520   | 9.957    | ppbv#  | 86       |
| 8) Trichlorotrifluoroethane   | 5.520  | 101   | 771081   | 10.312   | ppbv   | 95       |
| 10) Cis-1,2-Dichloroethene    | 6.658  | 61    | 444404   | 10.802   | ppbv   | 89       |
| 12) 1,1,1-Trichloroethane     | 7.471  | 97    | 952450   | 10.785   | ppbv   | 98       |
| 13) Benzene                   | 7.768  | 78    | 1143892  | 11.423   | ppbv   | 99       |
| 14) Carbon Tetrachloride      | 7.857  | 117   | 1020910  | 11.005   | ppbv   | 89       |
| 17) Trichloroethene           | 8.414  | 130   | 510873   | 10.562   | ppbv   | 95       |
| 18) Toluene                   | 9.494  | 91    | 1461670  | 12.039   | ppbv   | 95       |
| 19) Tetrachloroethene         | 10.154 | 166   | 610380   | 10.801   | ppbv   | 90       |
| 21) Chlorobenzene             | 10.532 | 112   | 1188099  | 10.292   | ppbv#  | 1        |
| 22) Ethylbenzene              | 10.737 | 91    | 1985056  | 10.664   | ppbv   | 99       |
| 23) m,p-Xylene                | 10.830 | 91    | 3314031  | 21.095   | ppbv#  | 86       |
| 24) o-Xylene                  | 11.096 | 91    | 1770683  | 10.401   | ppbv   | 96       |
| 26) 1,3-Dichlorobenzene       | 12.204 | 146   | 1349105  | 11.578   | ppbv#  | 93       |
| 27) 1,4-Dichlorobenzene       | 12.245 | 146   | 1288004  | 11.777   | ppbv   | 95       |
| 28) 1,2-Dichlorobenzene       | 12.460 | 146   | 1312215  | 11.664   | ppbv   | 99       |
| 29) 1,2,4-Trichlorobenzene    | 13.599 | 180   | 782538   | 12.828   | ppbv#  | 87       |
| 31) Vinyl Chloride(sim)       | 3.759  | 62    | 339184   | 9.262    | ppbv   | 98       |
| 35) Carbon Tetrachloride(sim) | 7.857  | 117   | 1020910  | 11.457   | ppbv   | 89       |
| 36) 1,1-Dichloroethene(sim)   | 5.267  | 61    | 630301   | 9.854    | ppbv   | 97       |
| 40) Cis-1,2-Dichloroethene... | 6.654  | 61    | 437764   | 9.891    | ppbv   | 99       |
| 44) Trichloroethene(sim)      | 8.420  | 130   | 633783   | 14.591   | ppbv   | 95       |
| 46) Tetrachloroethene(sim)    | 10.150 | 166   | 797303   | 16.830   | ppbv   | 94       |
| 48) m,p-Xylene(sim)           | 10.835 | 91    | 3617107  | 16.012   | ppbv#  | 95       |
| 50) 1,4-Dichlorobenzene(sim)  | 12.250 | 146   | 1527858  | 8.597    | ppbv   | 98       |

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_20.D  
 Acq On : 8 Jul 2020 10:16 pm  
 Operator :  
 Client ID : CG29882 LCS  
 Lab ID : CG29882 LCS  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 13 13:59:17 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration



CG29882 LCSD

Lab Sample ID: CG29882 LCSD

Lab File ID: 0708\_21.D

Date Received: 07/08/20

Date Analyzed: 07/08/20

Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3)                      ppbv

[illegible]

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:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_21.D  
 Acq On : 8 Jul 2020 10:54 pm  
 Operator :  
 Client ID : CG29882 LCSD  
 Lab ID : CG29882 LCSD  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 13 13:59:23 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration

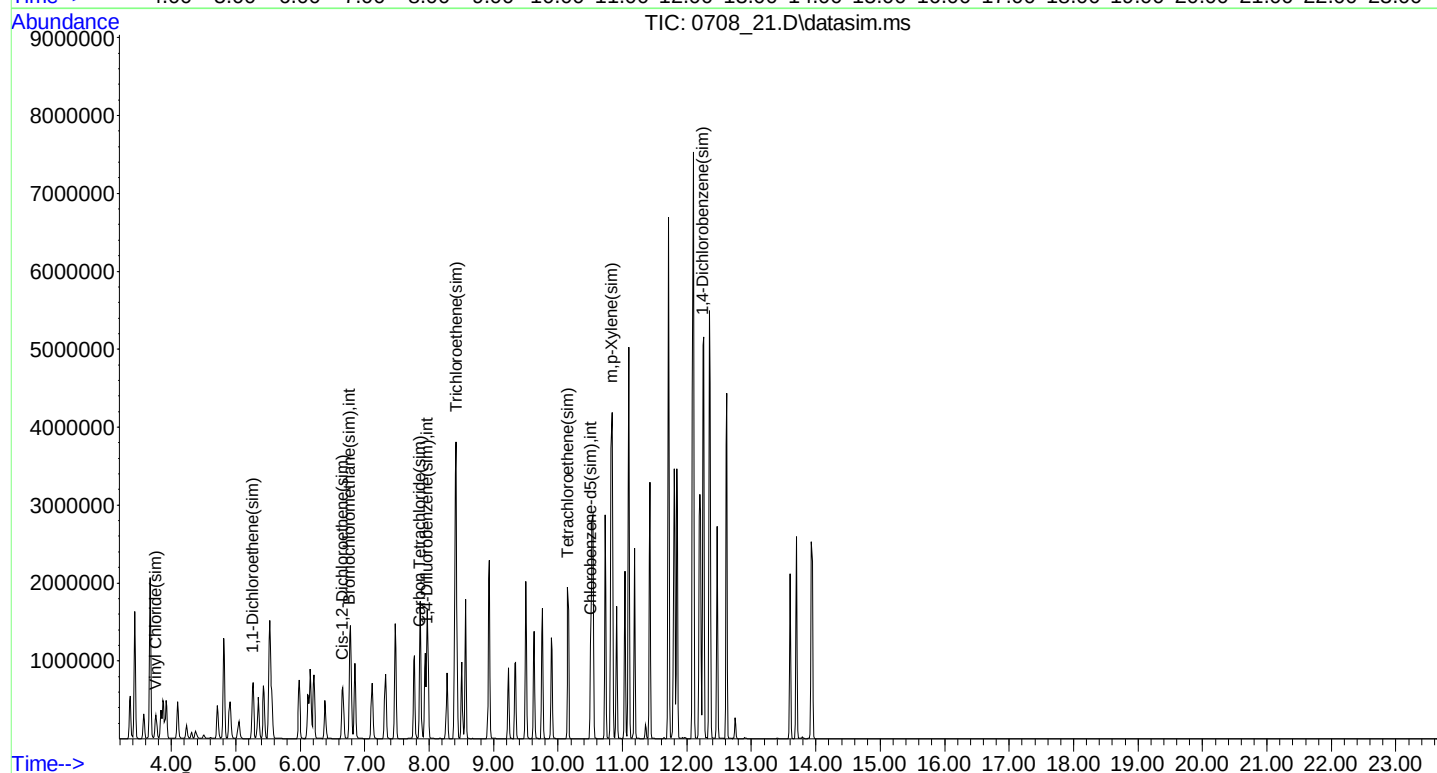
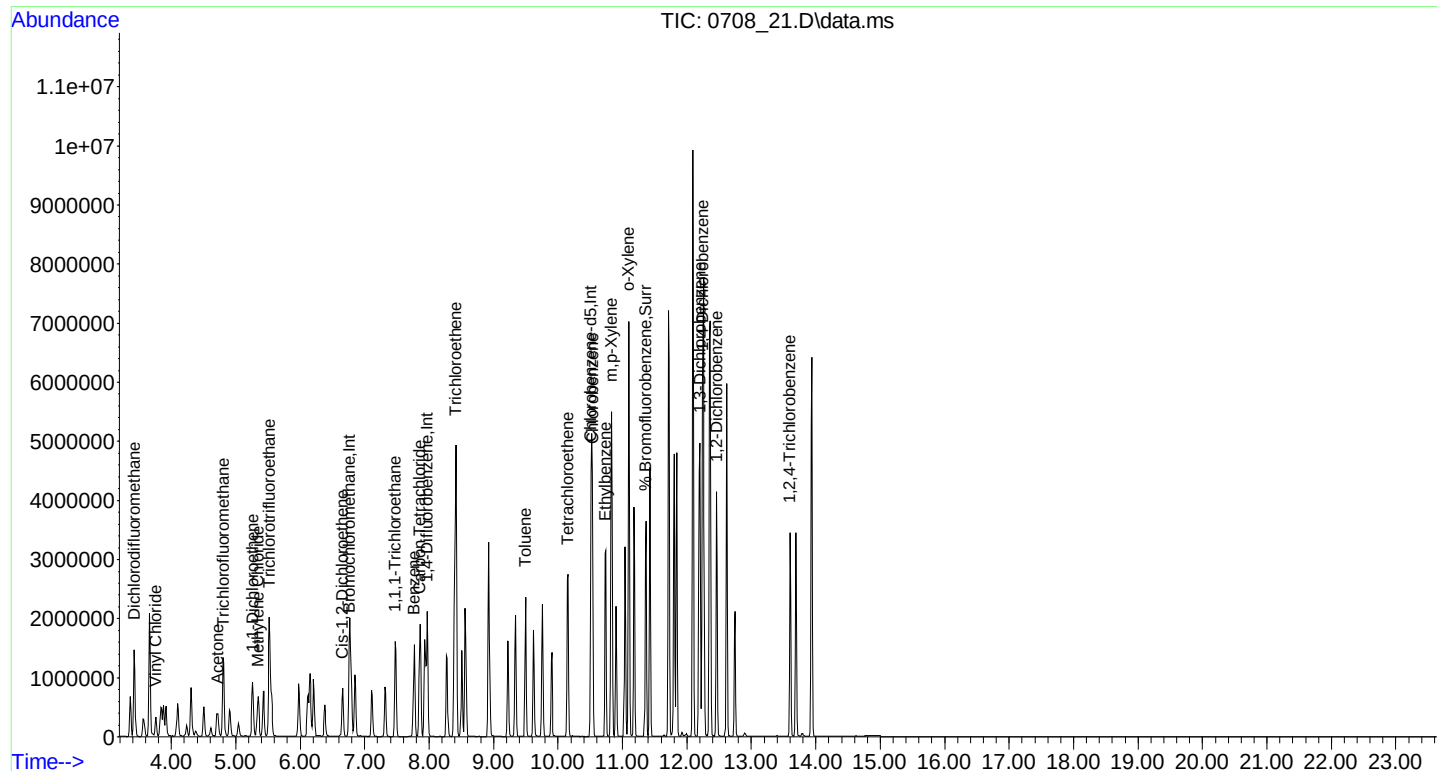
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 6.763  | 130   | 323684   | 10.000   | ng     | 0.02     |
| 15) 1,4-Difluorobenzene       | 7.969  | 114   | 1339925  | 10.000   | ng     | 0.01     |
| 20) Chlorobenzene-d5          | 10.512 | 82    | 792644   | 10.000   | ng     | 0.00     |
| 30) Bromochloromethane(sim)   | 6.768  | 130   | 368160   | 10.000   | ng     | # 0.02   |
| 41) 1,4-Difluorobenzene(sim)  | 7.969  | 114   | 1339925  | 10.000   | ng     | 0.00     |
| 47) Chlorobenzene-d5(sim)     | 10.512 | 82    | 791488   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 25) % Bromofluorobenzene      | 11.363 | 95    | 1093265  | 10.045   | ppbv   | 0.01     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 100.40%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 3.425  | 85    | 1398107  | 11.058   | ppbv#  | 89       |
| 3) Vinyl Chloride             | 3.759  | 62    | 340885   | 11.027   | ppbv   | 95       |
| 4) Acetone                    | 4.718  | 43    | 538704   | 10.921   | ppbv#  | 84       |
| 5) Trichlorofluoromethane     | 4.805  | 101   | 1203842  | 10.574   | ppbv   | 96       |
| 6) 1,1-Dichloroethene         | 5.262  | 61    | 567758   | 10.715   | ppbv#  | 86       |
| 7) Methylene Chloride         | 5.348  | 49    | 341019   | 10.136   | ppbv#  | 87       |
| 8) Trichlorotrifluoroethane   | 5.520  | 101   | 775469   | 10.479   | ppbv   | 96       |
| 10) Cis-1,2-Dichloroethene    | 6.658  | 61    | 479031   | 11.766   | ppbv   | 89       |
| 12) 1,1,1-Trichloroethane     | 7.471  | 97    | 962704   | 11.015   | ppbv   | 96       |
| 13) Benzene                   | 7.768  | 78    | 1156680  | 11.671   | ppbv   | 96       |
| 14) Carbon Tetrachloride      | 7.857  | 117   | 1024249  | 11.156   | ppbv   | 90       |
| 17) Trichloroethene           | 8.414  | 130   | 520052   | 10.730   | ppbv   | 95       |
| 18) Toluene                   | 9.494  | 91    | 1457454  | 11.979   | ppbv   | 94       |
| 19) Tetrachloroethene         | 10.154 | 166   | 617011   | 10.896   | ppbv   | 89       |
| 21) Chlorobenzene             | 10.532 | 112   | 1172835  | 10.167   | ppbv#  | 1        |
| 22) Ethylbenzene              | 10.737 | 91    | 1984640  | 10.669   | ppbv   | 99       |
| 23) m,p-Xylene                | 10.830 | 91    | 3315260  | 21.118   | ppbv#  | 86       |
| 24) o-Xylene                  | 11.096 | 91    | 1757530  | 10.326   | ppbv   | 95       |
| 26) 1,3-Dichlorobenzene       | 12.204 | 146   | 1350402  | 11.597   | ppbv#  | 93       |
| 27) 1,4-Dichlorobenzene       | 12.245 | 146   | 1280400  | 11.716   | ppbv   | 95       |
| 28) 1,2-Dichlorobenzene       | 12.460 | 146   | 1313272  | 11.682   | ppbv   | 98       |
| 29) 1,2,4-Trichlorobenzene    | 13.599 | 180   | 789151   | 12.945   | ppbv#  | 87       |
| 31) Vinyl Chloride(sim)       | 3.759  | 62    | 340885   | 9.408    | ppbv   | 96       |
| 35) Carbon Tetrachloride(sim) | 7.857  | 117   | 1024249  | 11.617   | ppbv   | 90       |
| 36) 1,1-Dichloroethene(sim)   | 5.267  | 61    | 644201   | 10.179   | ppbv   | 95       |
| 40) Cis-1,2-Dichloroethene... | 6.654  | 61    | 440217   | 10.053   | ppbv   | 98       |
| 44) Trichloroethene(sim)      | 8.420  | 130   | 640852   | 14.723   | ppbv   | 95       |
| 46) Tetrachloroethene(sim)    | 10.150 | 166   | 808154   | 17.023   | ppbv   | 94       |
| 48) m,p-Xylene(sim)           | 10.835 | 91    | 3614808  | 16.028   | ppbv#  | 95       |
| 50) 1,4-Dichlorobenzene(sim)  | 12.250 | 146   | 1524587  | 8.597    | ppbv   | 98       |

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_21.D  
 Acq On : 8 Jul 2020 10:54 pm  
 Operator :  
 Client ID : CG29882 LCSD  
 Lab ID : CG29882 LCSD  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 13 13:59:23 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration



Client: WALDENE-IPARK Lab: Phoenix Env. Labs

Lab Sample ID: CG29882 BL

Lab File ID: 0708\_23.D

Purge Volume 200 (cc) Date Analyzed: 07/09/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3)                      ppbv

FORM I AIR

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_23.D  
 Acq On : 9 Jul 2020 12:03 am  
 Operator :  
 Client ID : CG29882 BLANK  
 Lab ID : CG29882 BLANK  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 13 13:59:29 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Qlast Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| -----                        |        |       |          |          |       |          |
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 6.752  | 130   | 320188   | 10.000   | ng    | 0.00     |
| 15) 1,4-Difluorobenzene      | 7.957  | 114   | 1168285  | 10.000   | ng    | 0.00     |
| 20) Chlorobenzene-d5         | 10.512 | 82    | 664144   | 10.000   | ng    | 0.00     |
| 30) Bromochloromethane(sim)  | 6.758  | 130   | 362910   | 10.000   | ng    | # 0.01   |
| 41) 1,4-Difluorobenzene(sim) | 7.957  | 114   | 1168285  | 10.000   | ng    | 0.00     |
| 47) Chlorobenzene-d5(sim)    | 10.512 | 82    | 664144   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 25) % Bromofluorobenzene     | 11.362 | 95    | 842971   | 9.244    | ppbv  | 0.01     |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 92.40%   |

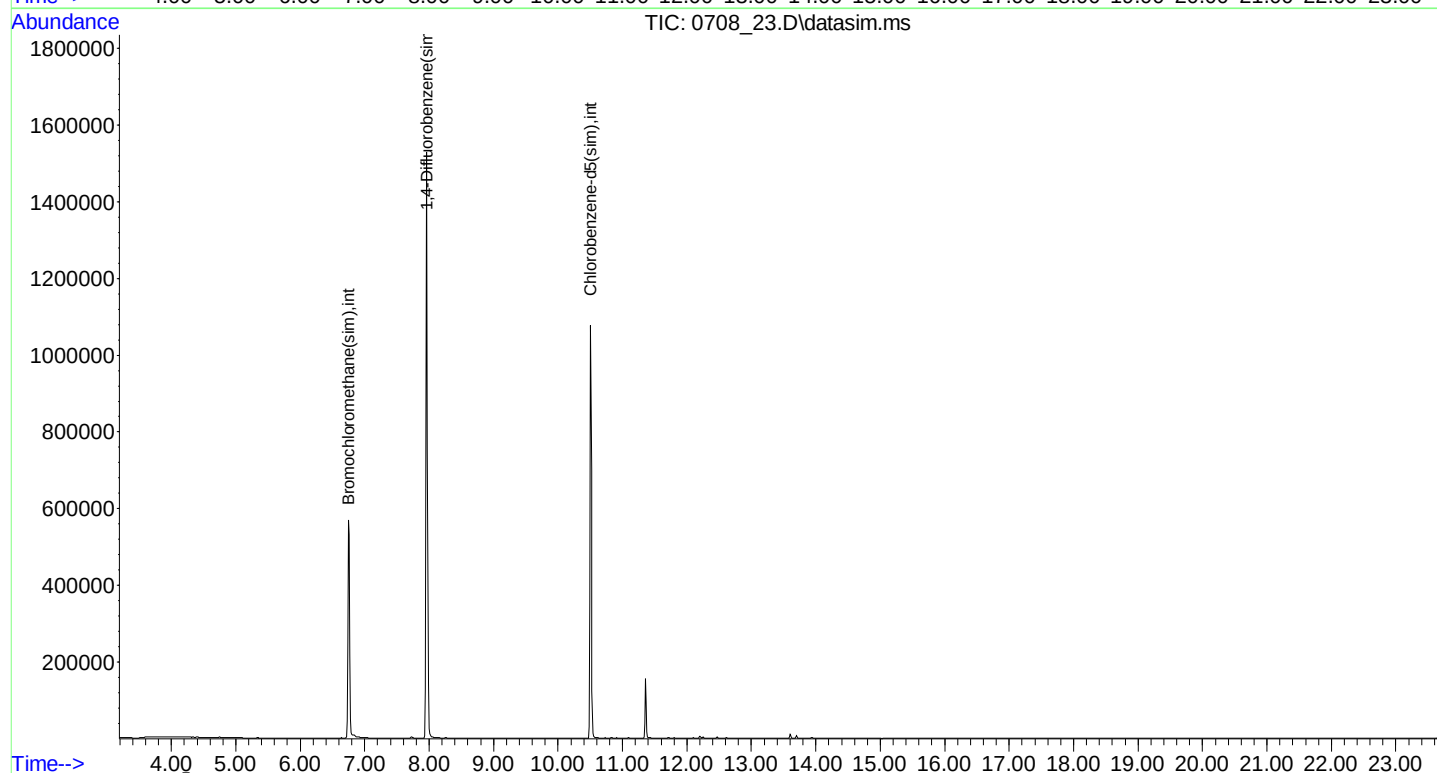
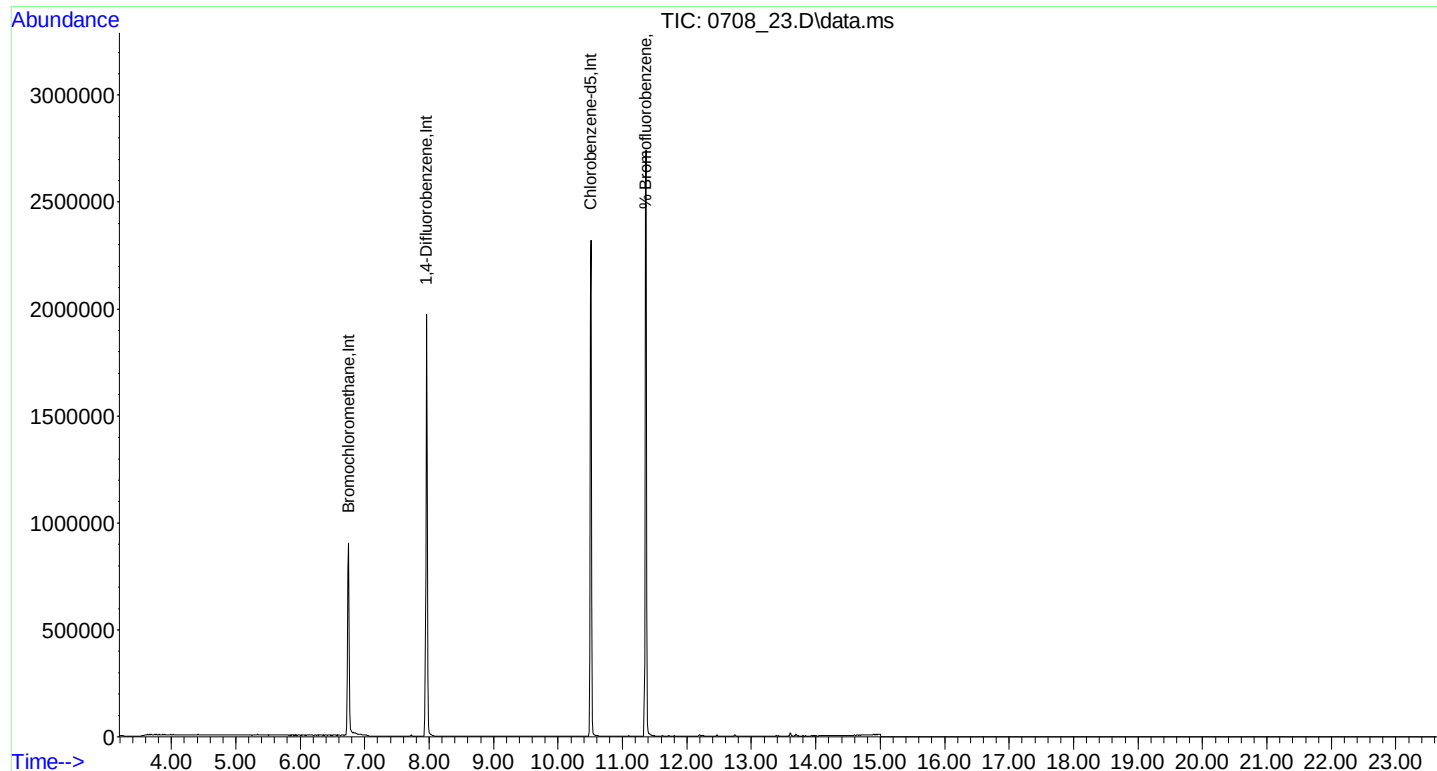
Target Compounds Qvalue

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_23.D  
 Acq On : 9 Jul 2020 12:03 am  
 Operator :  
 Client ID : CG29882 BLANK  
 Lab ID : CG29882 BLANK  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 13 13:59:29 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration





Dilution Factor: 1

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Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_30.D  
 Acq On : 9 Jul 2020 4:44 am  
 Operator :  
 Sample : 29882 dup  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 13 13:59:51 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration

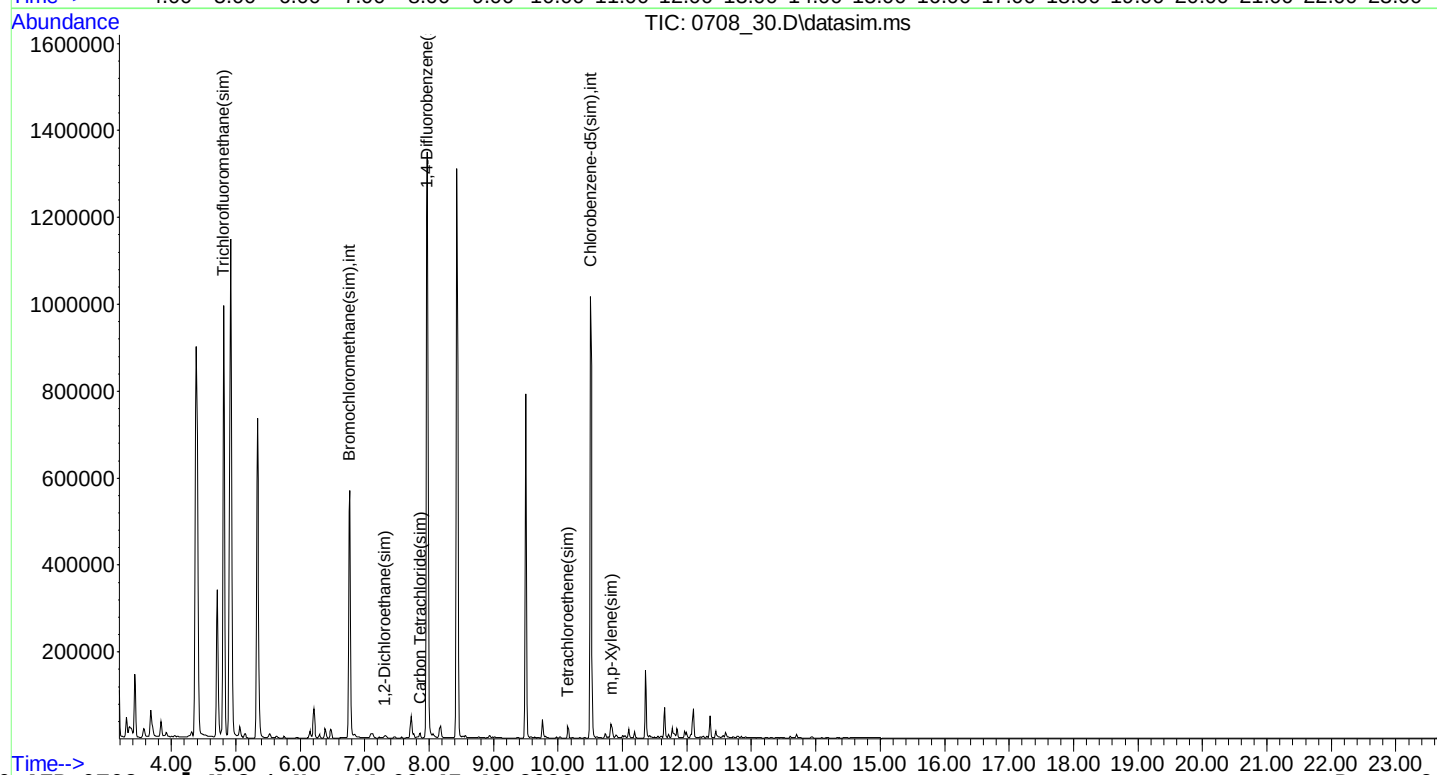
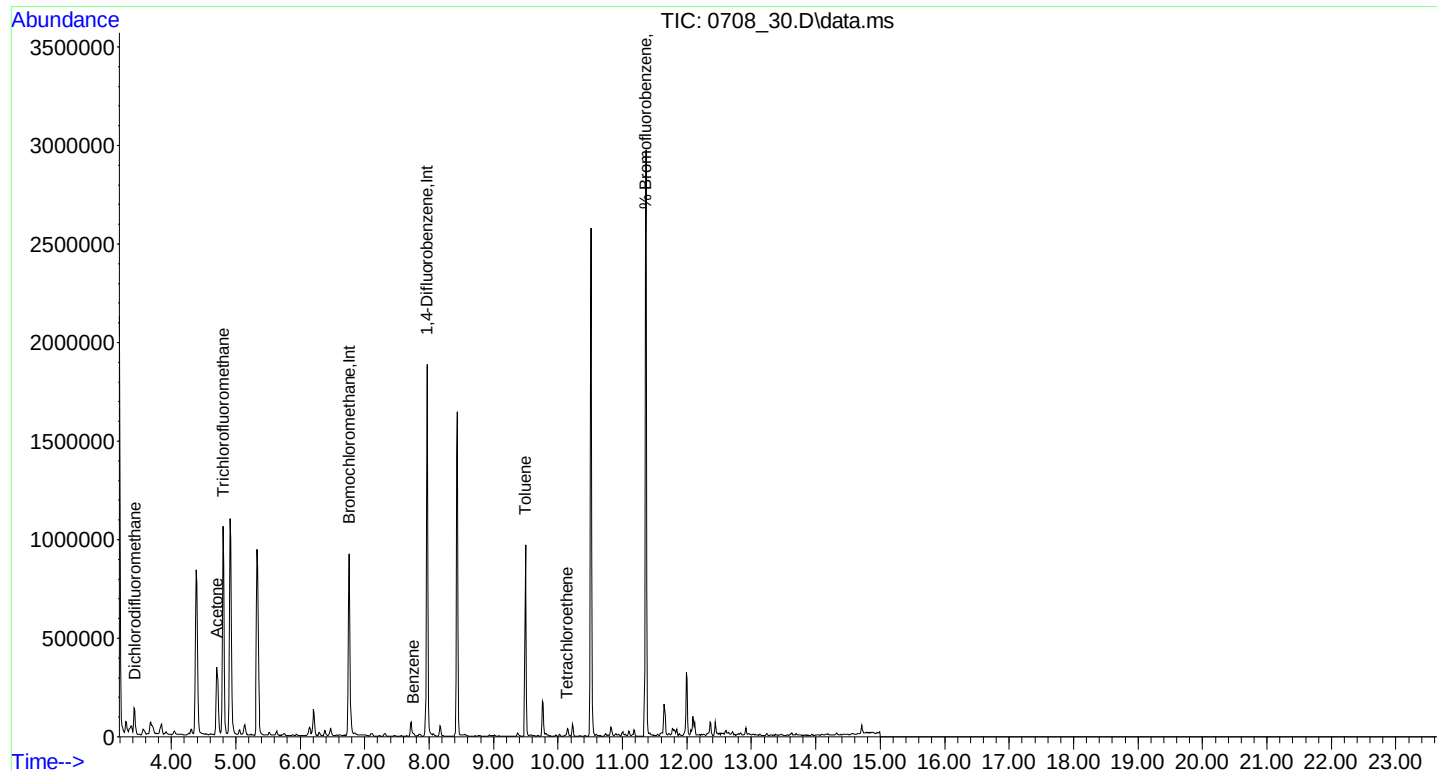
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|-------|-----------|
| Internal Standards            |        |       |          |          |       |           |
| 1) Bromochloromethane         | 6.763  | 130   | 313522   | 10.000   | ng    | 0.02      |
| 15) 1,4-Difluorobenzene       | 7.969  | 114   | 1122484  | 10.000   | ng    | 0.01      |
| 20) Chlorobenzene-d5          | 10.512 | 82    | 679189   | 10.000   | ng    | 0.00      |
| 30) Bromochloromethane(sim)   | 6.768  | 130   | 351486   | 10.000   | ng    | # 0.02    |
| 41) 1,4-Difluorobenzene(sim)  | 7.969  | 114   | 1122484  | 10.000   | ng    | 0.00      |
| 47) Chlorobenzene-d5(sim)     | 10.512 | 82    | 679189   | 10.000   | ng    | 0.00      |
| System Monitoring Compounds   |        |       |          |          |       |           |
| 25) % Bromofluorobenzene      | 11.363 | 95    | 880740   | 9.444    | ppbv  | 0.01      |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =     | 94.40%    |
| Target Compounds              |        |       |          |          |       |           |
| 2) Dichlorodifluoromethane    | 3.436  | 85    | 122933   | 1.004    | ppbv# | Qvalue 90 |
| 4) Acetone                    | 4.708  | 43    | 410709   | 8.596    | ppbv# | 84        |
| 5) Trichlorofluoromethane     | 4.805  | 101   | 895474   | 8.120    | ppbv  | 96        |
| 13) Benzene                   | 7.757  | 78    | 7957     | 0.083    | ppbv# | 83        |
| 18) Toluene                   | 9.494  | 91    | 555381   | 5.449    | ppbv  | 98        |
| 19) Tetrachloroethene         | 10.145 | 166   | 7926     | 0.167    | ppbv  | 88        |
| 32) Trichlorofluoromethane... | 4.810  | 101   | 1008527  | 7.565    | ppbv# | 99        |
| 33) 1,2-Dichloroethane(sim)   | 7.315  | 62    | 1379     | 0.024    | ppbv# | 81        |
| 35) Carbon Tetrachloride(sim) | 7.857  | 117   | 6464     | 0.077    | ppbv  | 90        |
| 46) Tetrachloroethene(sim)    | 10.150 | 166   | 11097    | 0.279    | ppbv  | 92        |
| 48) m,p-Xylene(sim)           | 10.825 | 91    | 21976    | 0.243    | ppbv  | 97        |

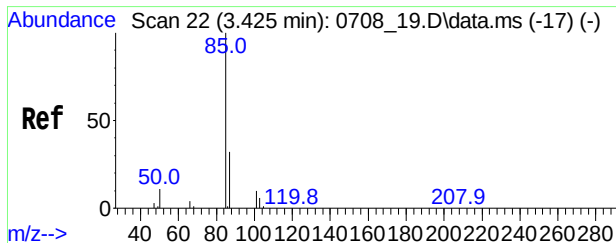
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_30.D  
 Acq On : 9 Jul 2020 4:44 am  
 Operator :  
 Sample : 29882 dup  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

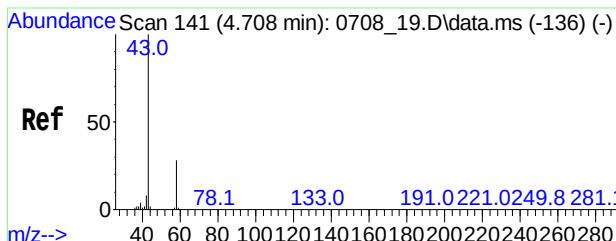
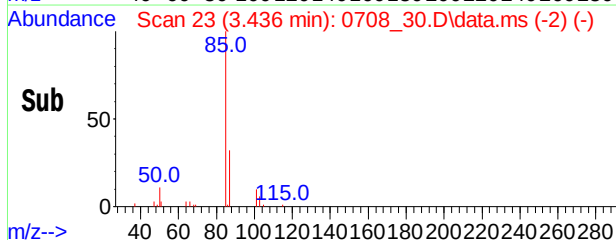
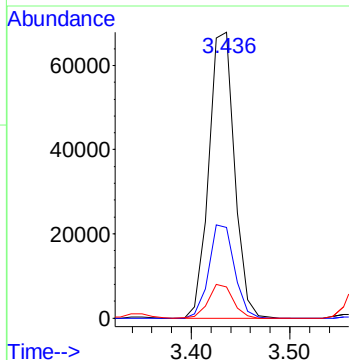
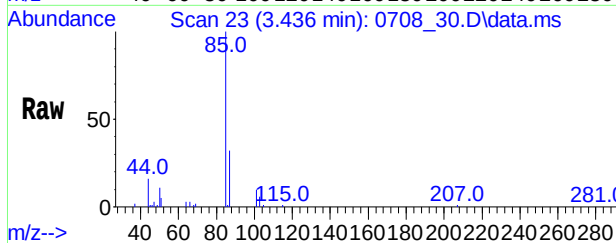
Quant Time: Oct 13 13:59:51 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration





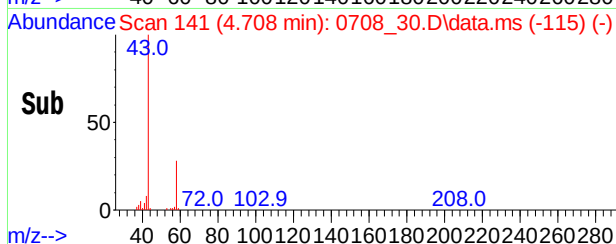
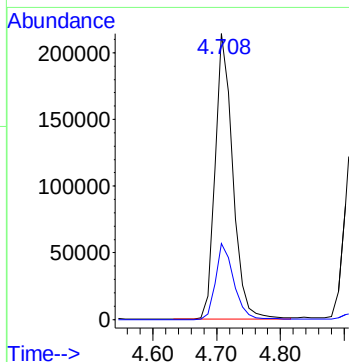
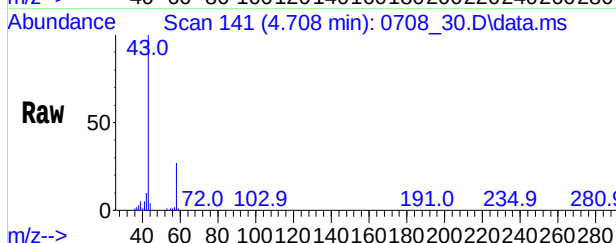
#2  
**Dichlorodifluoromethane**  
 Conc: 8\$ 1.004 ppbv  
 RT: 3.436 min Scan# 23  
 Delta R.T. 0.022 min  
 Lab File: 0708\_30.D  
 Acq: 9 Jul 2020 4:44 am

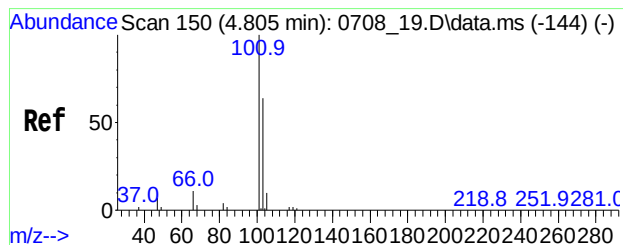
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 85      | 100   | 122933 |       |       |
| 87      | 32.6  | 31.4   | 47.2  |       |
| 50      | 11.5  | 11.8   | 17.8# |       |



#4  
**Acetone**  
 Conc: 8\$ 8.596 ppbv  
 RT: 4.708 min Scan# 141  
 Delta R.T. -0.021 min  
 Lab File: 0708\_30.D  
 Acq: 9 Jul 2020 4:44 am

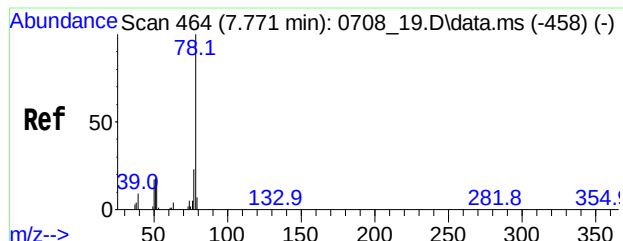
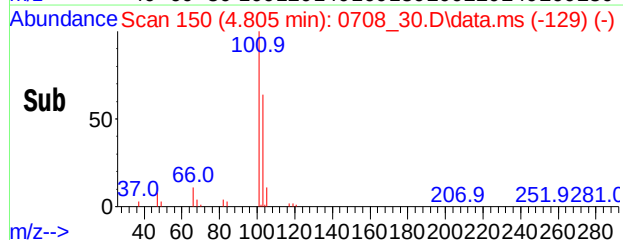
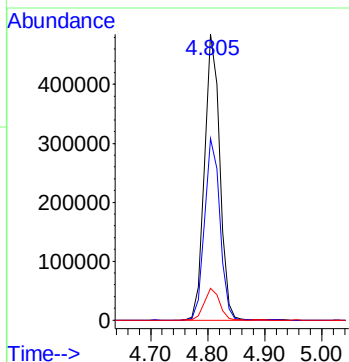
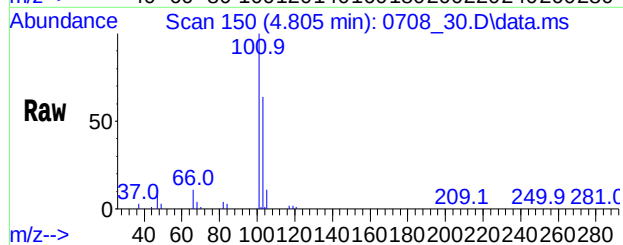
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 43      | 100   | 410709 |       |       |
| 58      | 27.6  | 16.2   | 24.2# |       |





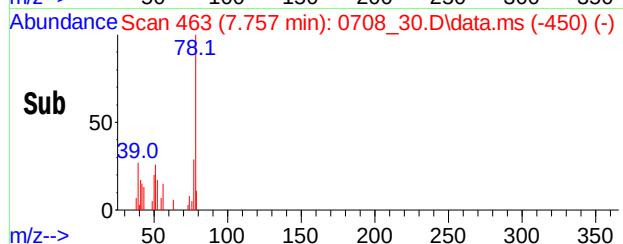
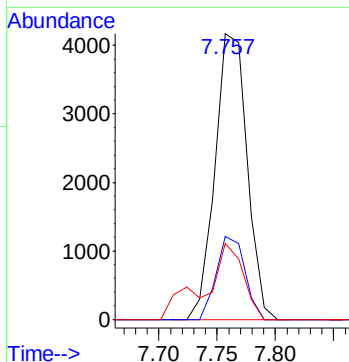
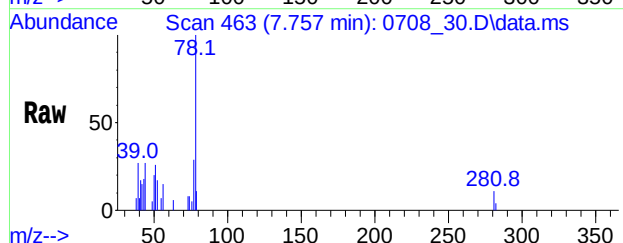
#5  
**Trichlorofluoromethane**  
 Conc: 8\$ 8.120 ppbv  
 RT: 4.805 min Scan# 150  
 Delta R.T. 0.022 min  
 Lab File: 0708\_30.D  
 Acq: 9 Jul 2020 4:44 am

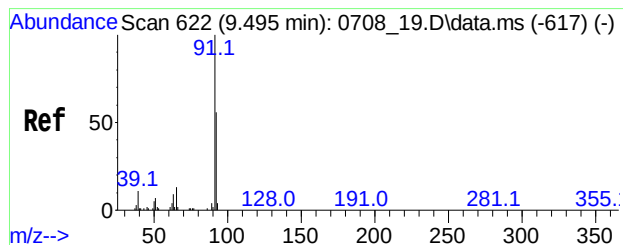
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 895474 |       |       |
| 103     | 63.8  | 49.0   | 73.6  |       |
| 66      | 11.1  | 10.7   | 16.1  |       |



#13  
**Benzene**  
 Conc: 8\$ 0.083 ppbv  
 RT: 7.757 min Scan# 463  
 Delta R.T. 0.011 min  
 Lab File: 0708\_30.D  
 Acq: 9 Jul 2020 4:44 am

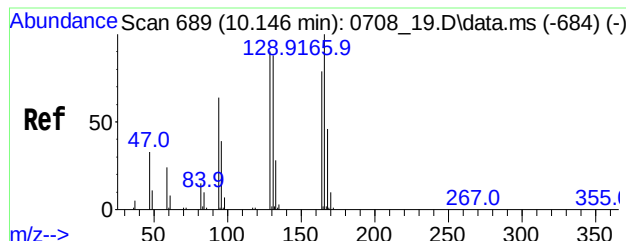
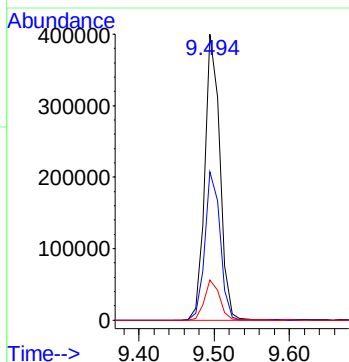
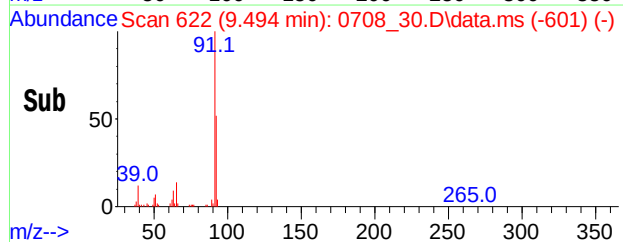
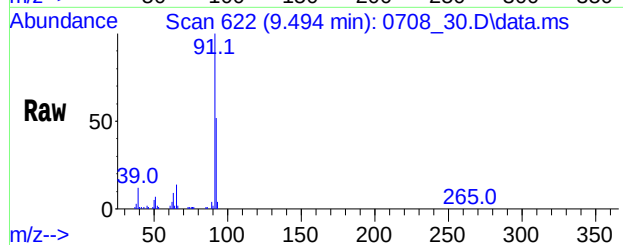
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 78      | 100   | 7957 |       |       |
| 77      | 25.9  | 18.6 | 28.0  |       |
| 51      | 32.0  | 13.9 | 20.9# |       |





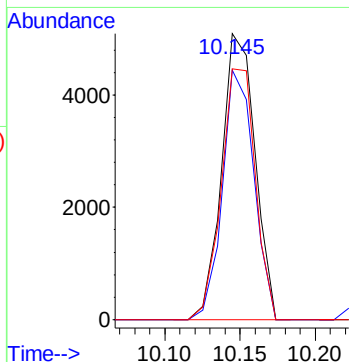
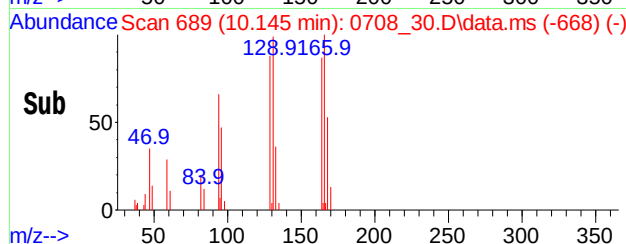
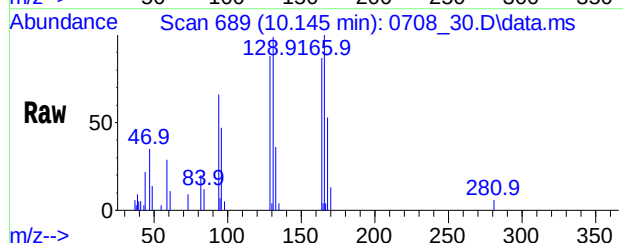
#18  
Toluene  
Conc: 8\$ 5.449 ppbv  
RT: 9.494 min Scan# 622  
Delta R.T. 0.000 min  
Lab File: 0708\_30.D  
Acq: 9 Jul 2020 4:44 am

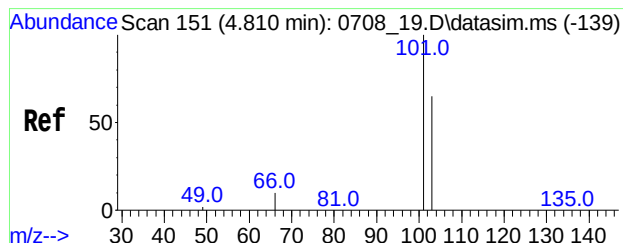
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 555381 |       |       |
| 92      | 52.8  | 40.9   | 61.3  |       |
| 65      | 14.1  | 11.7   | 17.5  |       |



#19  
Tetrachloroethene  
Conc: 8\$ 0.167 ppbv  
RT: 10.145 min Scan# 689  
Delta R.T. -0.000 min  
Lab File: 0708\_30.D  
Acq: 9 Jul 2020 4:44 am

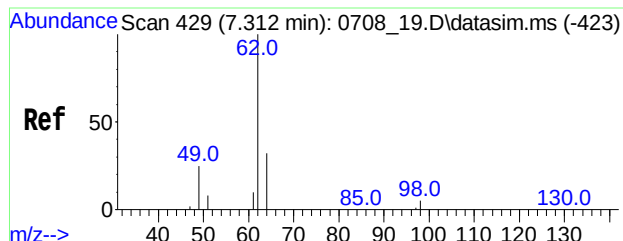
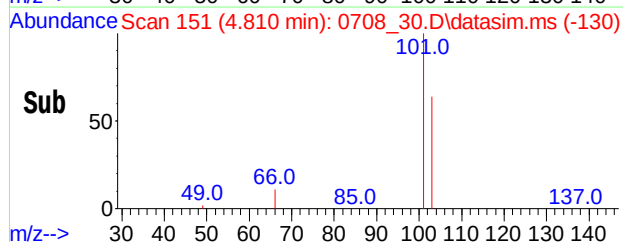
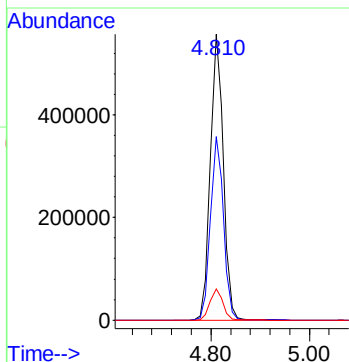
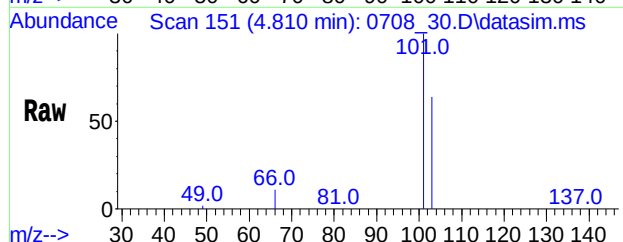
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 166     | 100   | 7926 |       |       |
| 164     | 82.3  | 56.0 | 84.0  |       |
| 129     | 89.4  | 64.2 | 96.4  |       |





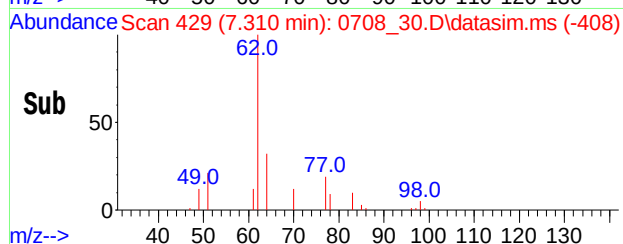
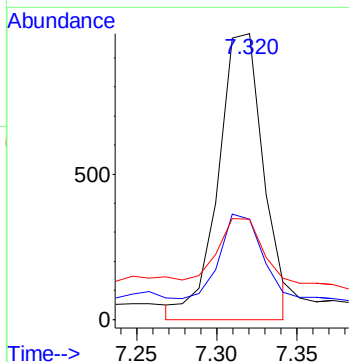
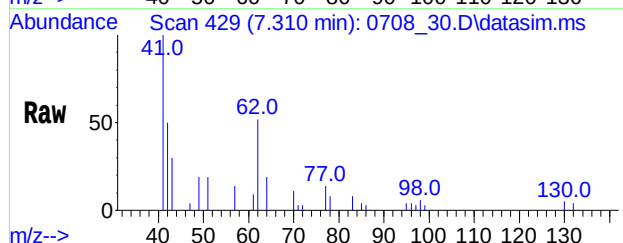
#32  
 Trichlorofluoromethane(sim)  
 Conc: 8\$ 7.565 ppbv  
 RT: 4.810 min Scan# 151  
 Delta R.T. 0.021 min  
 Lab File: 0708\_30.D  
 Acq: 9 Jul 2020 4:44 am

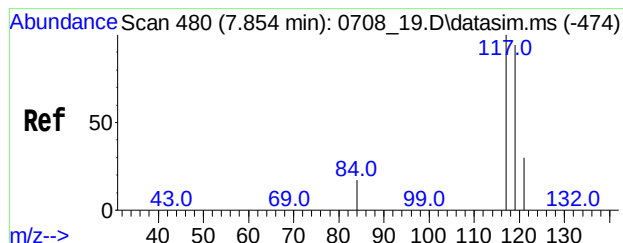
| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 101     | 100   | 1008527 |       |       |
| 103     | 64.4  | 51.2    | 76.8  |       |
| 66      | 10.9  | 11.1    | 11.1# |       |



#33  
 1,2-Dichloroethane(sim)  
 Conc: 8\$ 0.024 ppbv  
 RT: 7.315 min Scan# 429  
 Delta R.T. 0.021 min  
 Lab File: 0708\_30.D  
 Acq: 9 Jul 2020 4:44 am

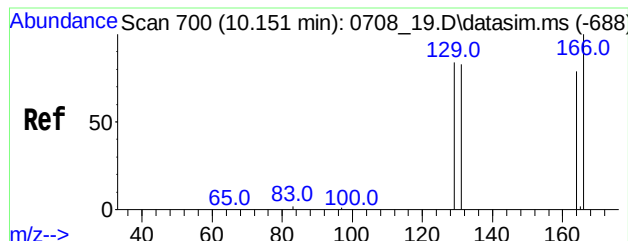
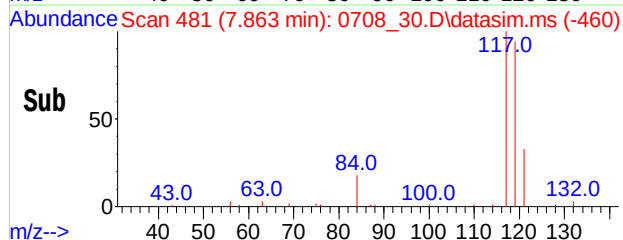
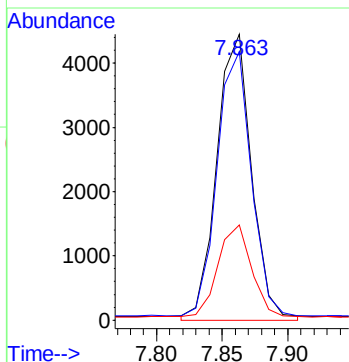
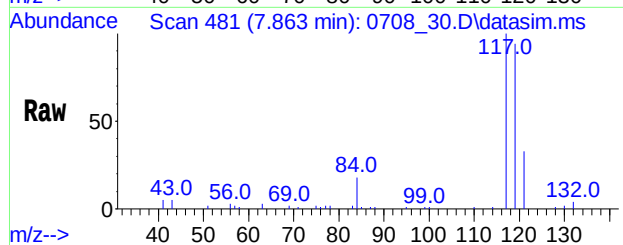
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 62      | 100   | 1379 |       |       |
| 64      | 36.8  | 19.6 | 29.4# |       |
| 49      | 27.3  | 28.5 | 42.7# |       |





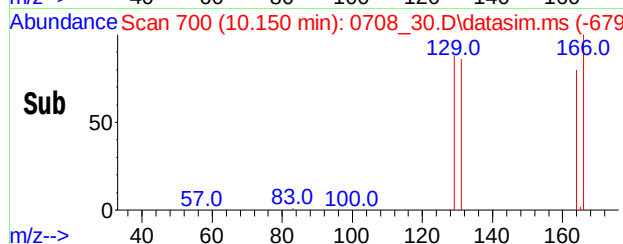
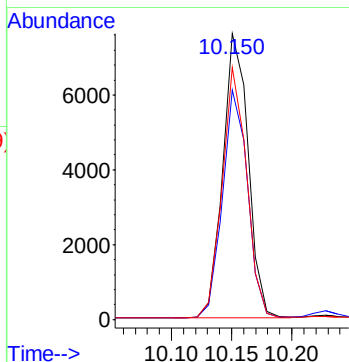
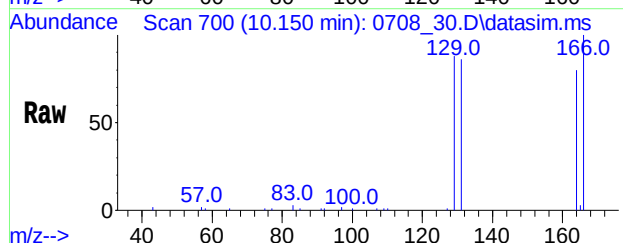
#35  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.077 ppbv  
RT: 7.857 min Scan# 481  
Delta R.T. 0.022 min  
Lab File: 0708\_30.D  
Acq: 9 Jul 2020 4:44 am

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 6464 |       |       |
| 119     | 95.1  | 85.7 | 128.5 |       |
| 121     | 30.1  | 21.8 | 32.6  |       |

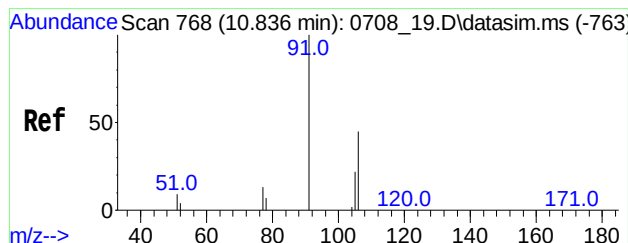


#46  
Tetrachloroethene(sim)  
Conc: 8\$ 0.279 ppbv  
RT: 10.150 min Scan# 700  
Delta R.T. 0.005 min  
Lab File: 0708\_30.D  
Acq: 9 Jul 2020 4:44 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 11097 |       |       |
| 164     | 79.1  | 50.0  | 90.0  |       |
| 129     | 84.8  | 60.3  | 100.3 |       |

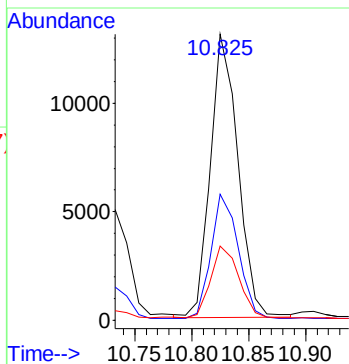
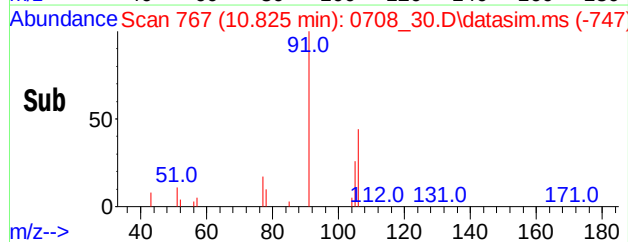
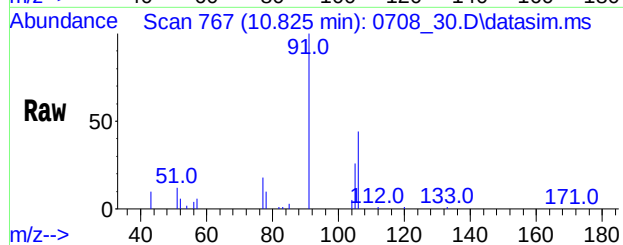






#48  
 m,p-Xylene(sim)  
 Conc: 8\$ 0.243 ppbv  
 RT: 10.825 min Scan# 767  
 Delta R.T. -0.000 min  
 Lab File: 0708\_30.D  
 Acq: 9 Jul 2020 4:44 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 21976 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 43.2  | 41.1  | 50.3  |
| 105       | 26.3  | 21.7  | 32.5  |



Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_30.D  
 Acq On : 9 Jul 2020 4:44 am  
 Operator :  
 Sample : 29882 dup  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 13 13:59:51 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration

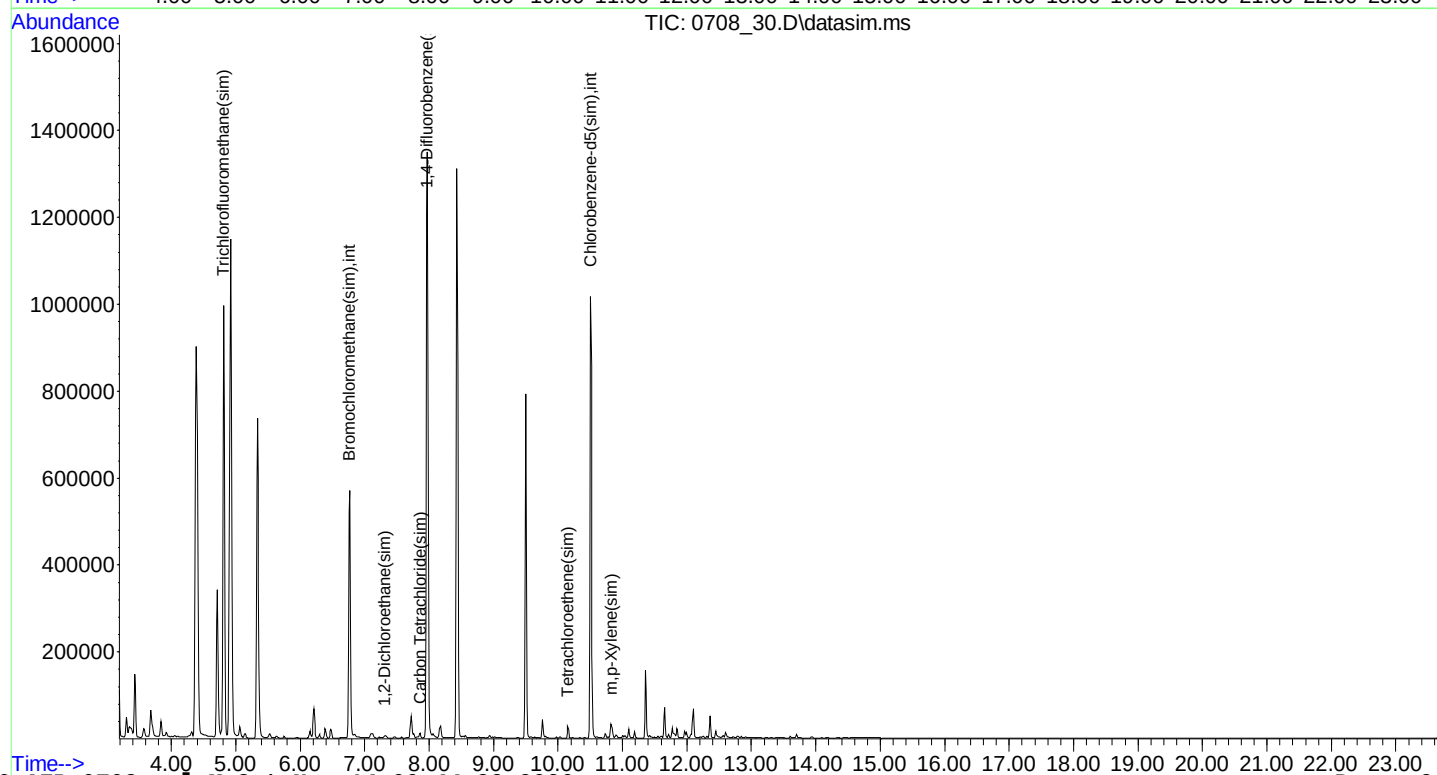
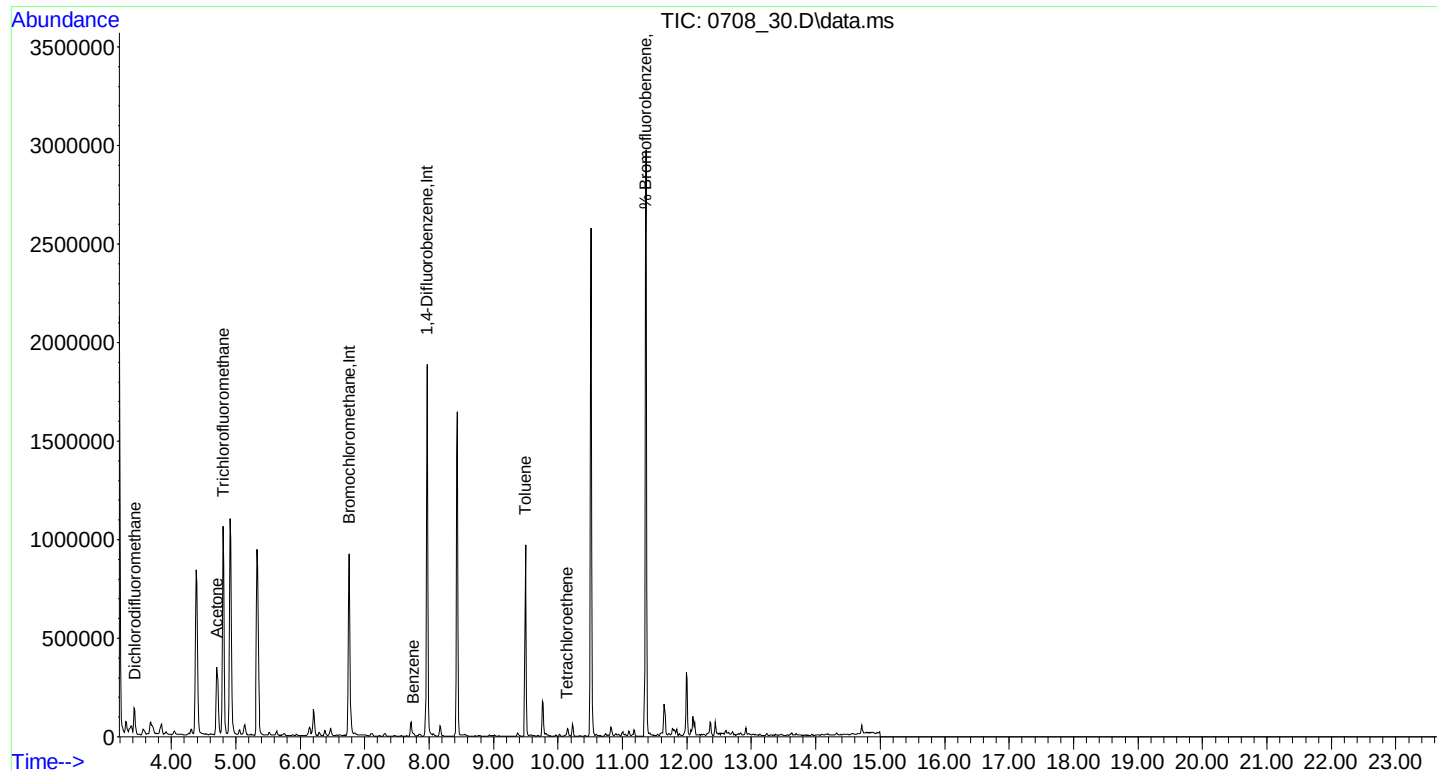
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|-------|-----------|
| Internal Standards            |        |       |          |          |       |           |
| 1) Bromochloromethane         | 6.763  | 130   | 313522   | 10.000   | ng    | 0.02      |
| 15) 1,4-Difluorobenzene       | 7.969  | 114   | 1122484  | 10.000   | ng    | 0.01      |
| 20) Chlorobenzene-d5          | 10.512 | 82    | 679189   | 10.000   | ng    | 0.00      |
| 30) Bromochloromethane(sim)   | 6.768  | 130   | 351486   | 10.000   | ng    | # 0.02    |
| 41) 1,4-Difluorobenzene(sim)  | 7.969  | 114   | 1122484  | 10.000   | ng    | 0.00      |
| 47) Chlorobenzene-d5(sim)     | 10.512 | 82    | 679189   | 10.000   | ng    | 0.00      |
| System Monitoring Compounds   |        |       |          |          |       |           |
| 25) % Bromofluorobenzene      | 11.363 | 95    | 880740   | 9.444    | ppbv  | 0.01      |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =     | 94.40%    |
| Target Compounds              |        |       |          |          |       |           |
| 2) Dichlorodifluoromethane    | 3.436  | 85    | 122933   | 1.004    | ppbv# | Qvalue 90 |
| 4) Acetone                    | 4.708  | 43    | 410709   | 8.596    | ppbv# | 84        |
| 5) Trichlorofluoromethane     | 4.805  | 101   | 895474   | 8.120    | ppbv  | 96        |
| 13) Benzene                   | 7.757  | 78    | 7957     | 0.083    | ppbv# | 83        |
| 18) Toluene                   | 9.494  | 91    | 555381   | 5.449    | ppbv  | 98        |
| 19) Tetrachloroethene         | 10.145 | 166   | 7926     | 0.167    | ppbv  | 88        |
| 32) Trichlorofluoromethane... | 4.810  | 101   | 1008527  | 7.565    | ppbv# | 99        |
| 33) 1,2-Dichloroethane(sim)   | 7.315  | 62    | 1379     | 0.024    | ppbv# | 81        |
| 35) Carbon Tetrachloride(sim) | 7.857  | 117   | 6464     | 0.077    | ppbv  | 90        |
| 46) Tetrachloroethene(sim)    | 10.150 | 166   | 11097    | 0.279    | ppbv  | 92        |
| 48) m,p-Xylene(sim)           | 10.825 | 91    | 21976    | 0.243    | ppbv  | 97        |

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\08\  
 Data File : 0708\_30.D  
 Acq On : 9 Jul 2020 4:44 am  
 Operator :  
 Sample : 29882 dup  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 13 13:59:51 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0708\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 13:17:19 2020  
 Response via : Initial Calibration





# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\05MAY\10\  
 Data File : 0510\_25.D  
 Acq On : 11 May 2020 11:20 am  
 Operator :  
 Client ID : CANISTER BLK 6L ind #28581  
 Lab ID : CANISTER BLK 6L ind #28581  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 11 11:52:17 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0510.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon May 11 08:38:18 2020  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 6.790  | 130   | 209669   | 10.000   | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.987  | 114   | 703602   | 10.000   | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.528 | 82    | 393094   | 10.000   | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 6.796  | 130   | 251358   | 10.000   | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.993  | 114   | 793701   | 10.000   | ng    | 0.00     |
| 104) Chlorobenzene-d5(sim)   | 10.524 | 82    | 429018   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 62) % Bromofluorobenzene     | 11.369 | 95    | 536756   | 10.102   | ppbv  | 0.00     |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 101.00%  |

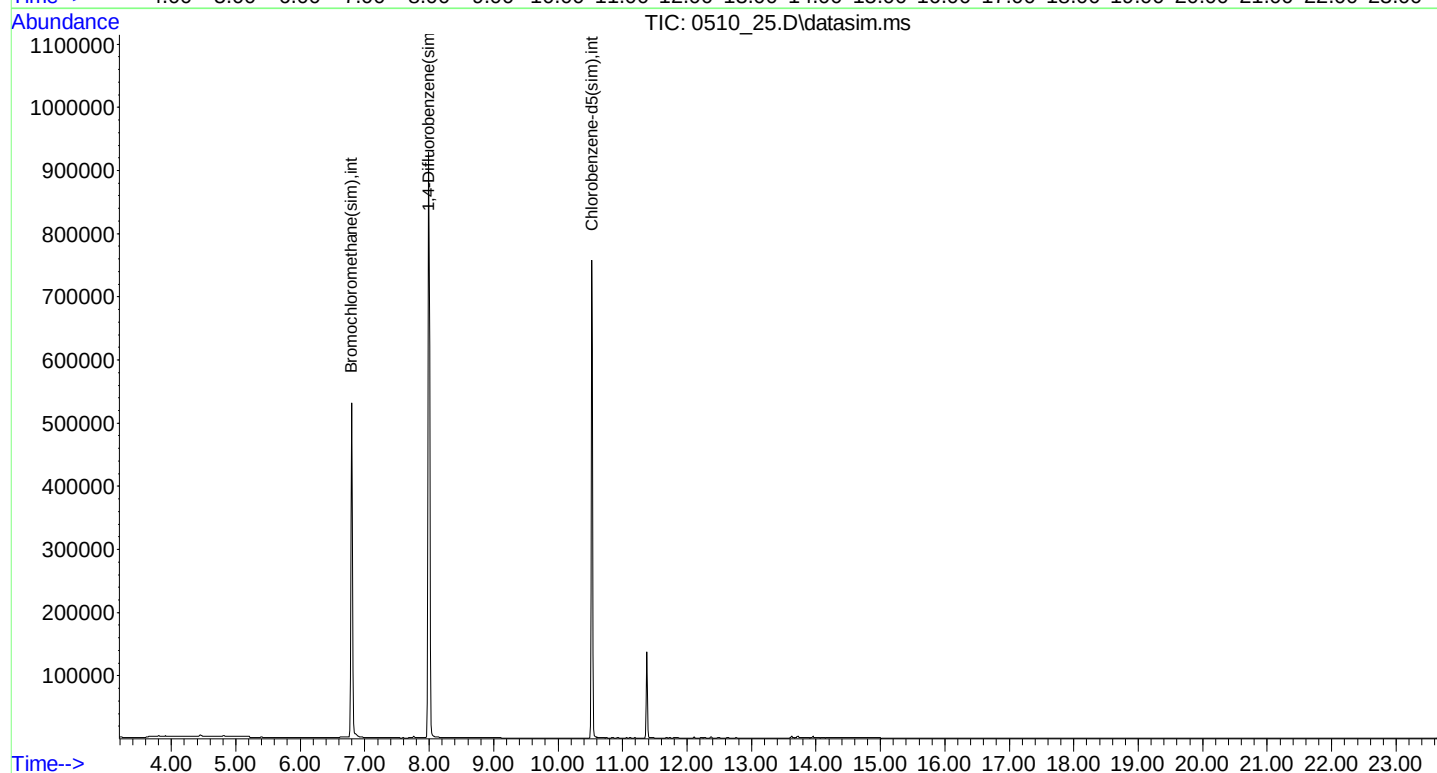
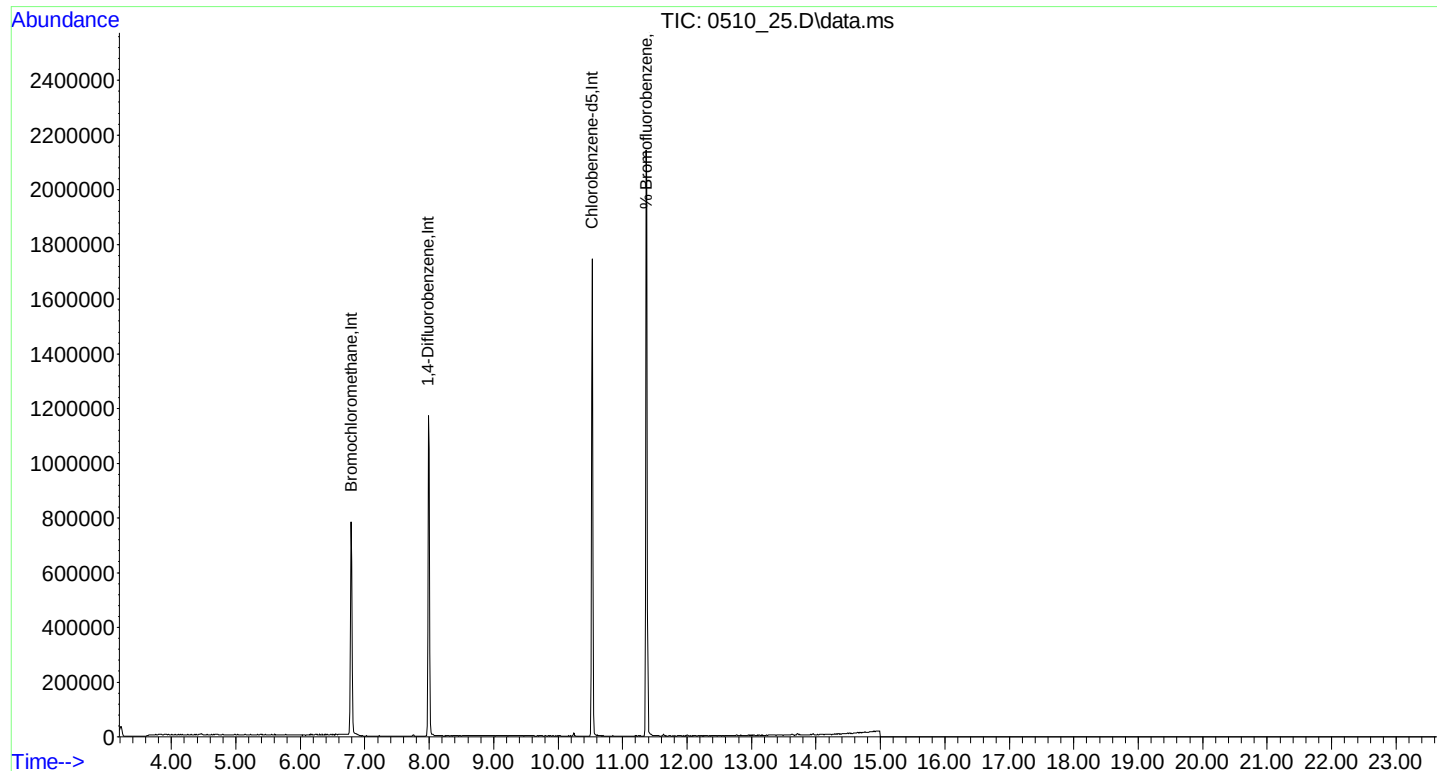
Target Compounds Qvalue

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\05MAY\10\  
 Data File : 0510\_25.D  
 Acq On : 11 May 2020 11:20 am  
 Operator :  
 Client ID : CANISTER BLK 6L ind #28581  
 Lab ID : CANISTER BLK 6L ind #28581  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 11 11:52:17 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0510.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon May 11 08:38:18 2020  
 Response via : Initial Calibration



Client: WALDENE-IPARK Lab: Phoenix Env. Labs

Canister: CANBL Lab File ID: 0624\_06.D

Purge Volume 200 (cc) Date Analyzed: 06/24/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3)      ppbv

FORM I AIR

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\06JUN\24\  
 Data File : 0624\_06.D  
 Acq On : 24 Jun 2020 2:50 pm  
 Operator :  
 Client ID : CANISTER BLK 19426  
 Lab ID : CANISTER BLK 19426  
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 25 08:16:50 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0615.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jun 15 14:41:22 2020  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 6.748  | 130   | 211432   | 10.000   | ng    | -0.01    |
| 36) 1,4-Difluorobenzene      | 7.965  | 114   | 851598   | 10.000   | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.508 | 82    | 471879   | 10.000   | ng    | -0.01    |
| 80) Bromochloromethane(sim)  | 6.754  | 130   | 239187   | 10.000   | ng    | #-0.01   |
| 94) 1,4-Difluorobenzene(sim) | 7.971  | 114   | 996086   | 10.000   | ng    | 0.00     |
| 104) Chlorobenzene-d5(sim)   | 10.513 | 82    | 521400   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 62) % Bromofluorobenzene     | 11.358 | 95    | 604437   | 9.503    | ppbv  | 0.00     |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 95.00%   |

Target Compounds Qvalue

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



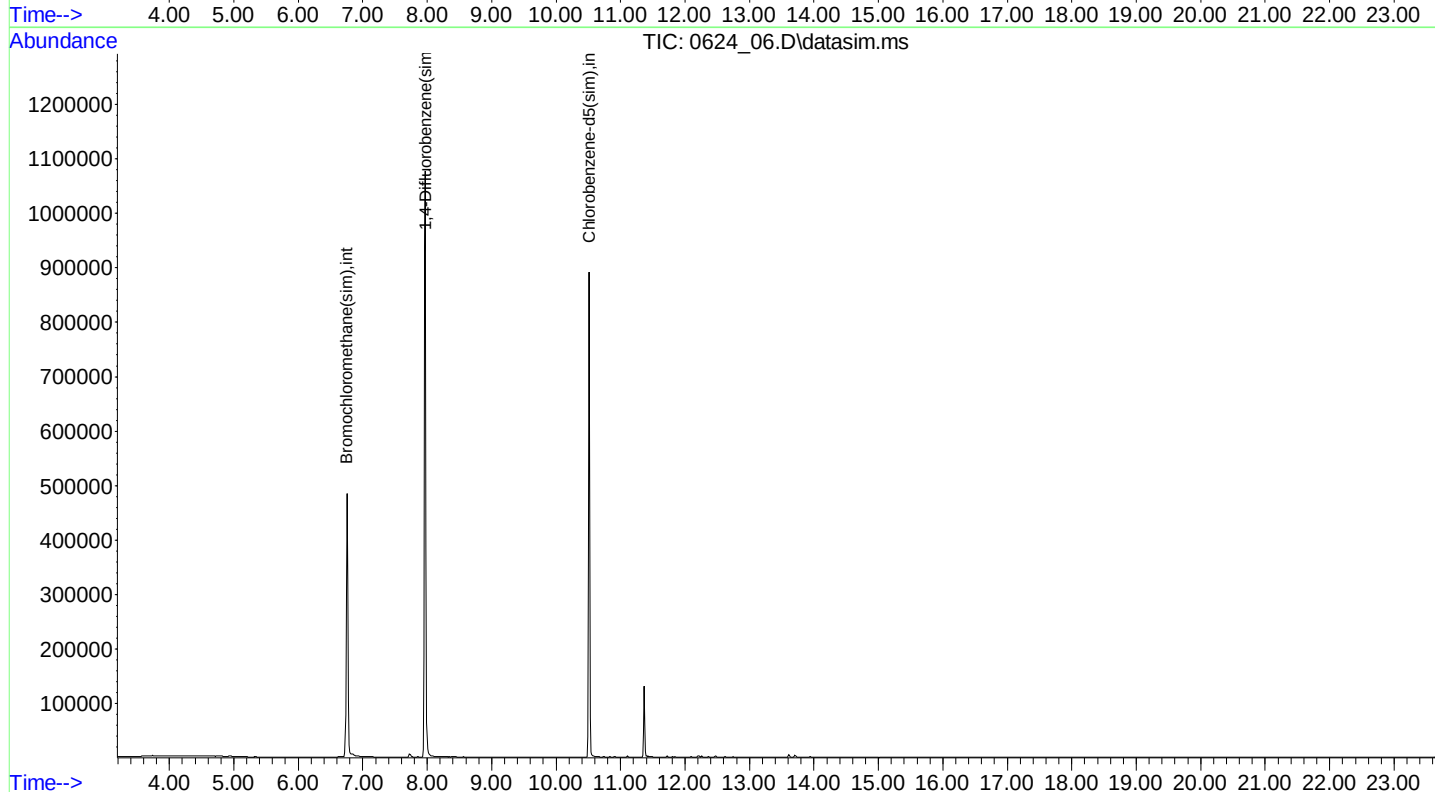
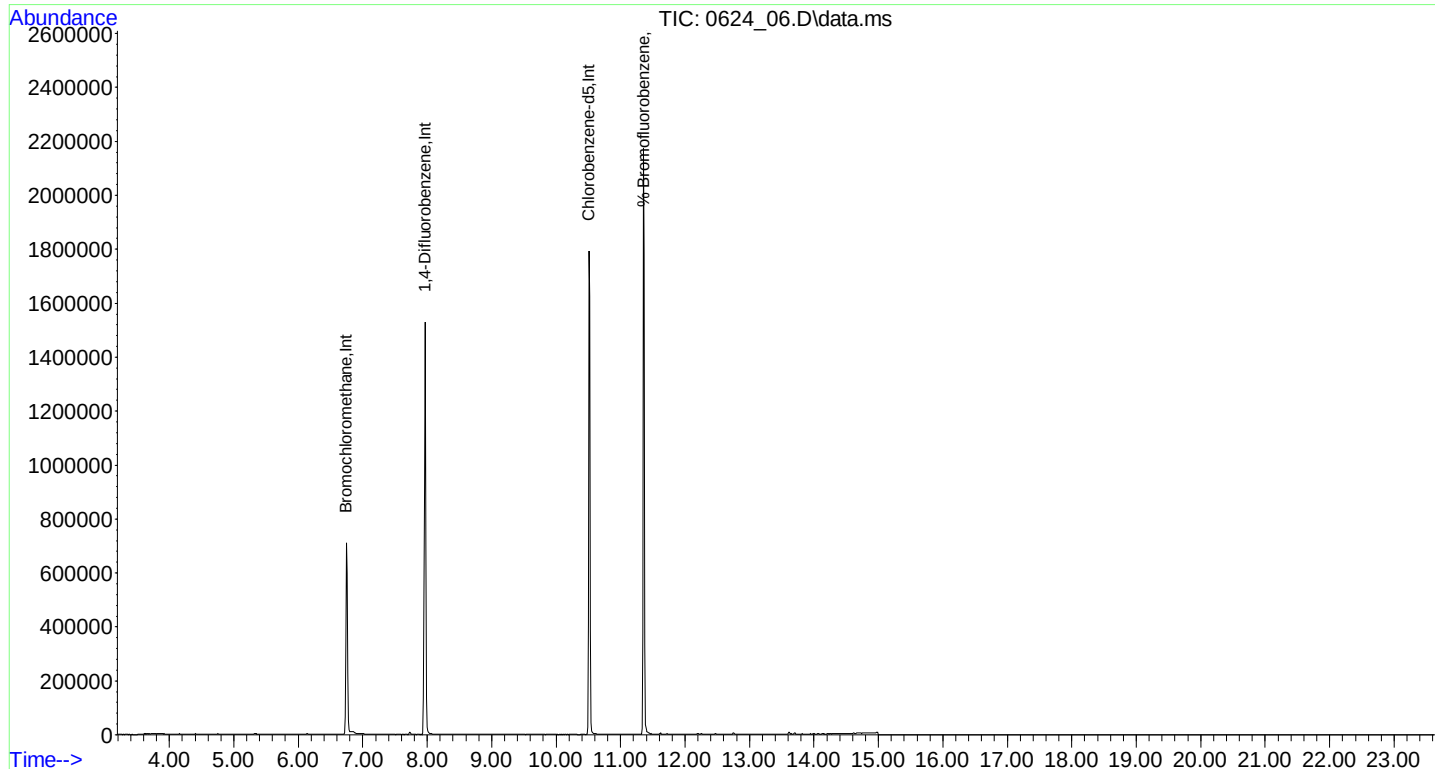
**(QT Reviewed)**

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Data Path   : H:\AIR2020\CHEM20\06JUN\24\
Data File   : 0624_06.D
Acq On      : 24 Jun 2020    2:50 pm
Operator    :
Client ID   : CANISTER BLK 19426
Lab ID      : CANISTER BLK 19426
ALS Vial    : 34    Sample Multiplier: 1

```

Quant Time: Jun 25 08:16:50 2020  
Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0615.M  
Quant Title : VOA Standards for 5 point calibration  
QLast Update : Mon Jun 15 14:41:22 2020  
Response via : Initial Calibration



Client: WALDENE-IPARK Lab: Phoenix Env. Labs

Canister: CANBL Lab File ID: 0624\_17.D

Purge Volume 200 (cc) Date Analyzed: 06/24/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3)                      ppbv

FORM I AIR

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# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\06JUN\24\  
 Data File : 0624\_17.D  
 Acq On : 24 Jun 2020 9:59 pm  
 Operator :  
 Client ID : CANISTER BLK 23343  
 Lab ID : CANISTER BLK 23343  
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Jun 25 08:17:35 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0615.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jun 15 14:41:22 2020  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 6.759  | 130   | 225909   | 10.000   | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.965  | 114   | 865461   | 10.000   | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.508 | 82    | 477087   | 10.000   | ng    | -0.01    |
| 80) Bromochloromethane(sim)  | 6.765  | 130   | 246524   | 10.000   | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.971  | 114   | 1011394  | 10.000   | ng    | 0.00     |
| 104) Chlorobenzene-d5(sim)   | 10.513 | 82    | 529348   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 62) % Bromofluorobenzene     | 11.359 | 95    | 611115   | 9.503    | ppbv  | 0.00     |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 95.00%   |

Target Compounds Qvalue

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

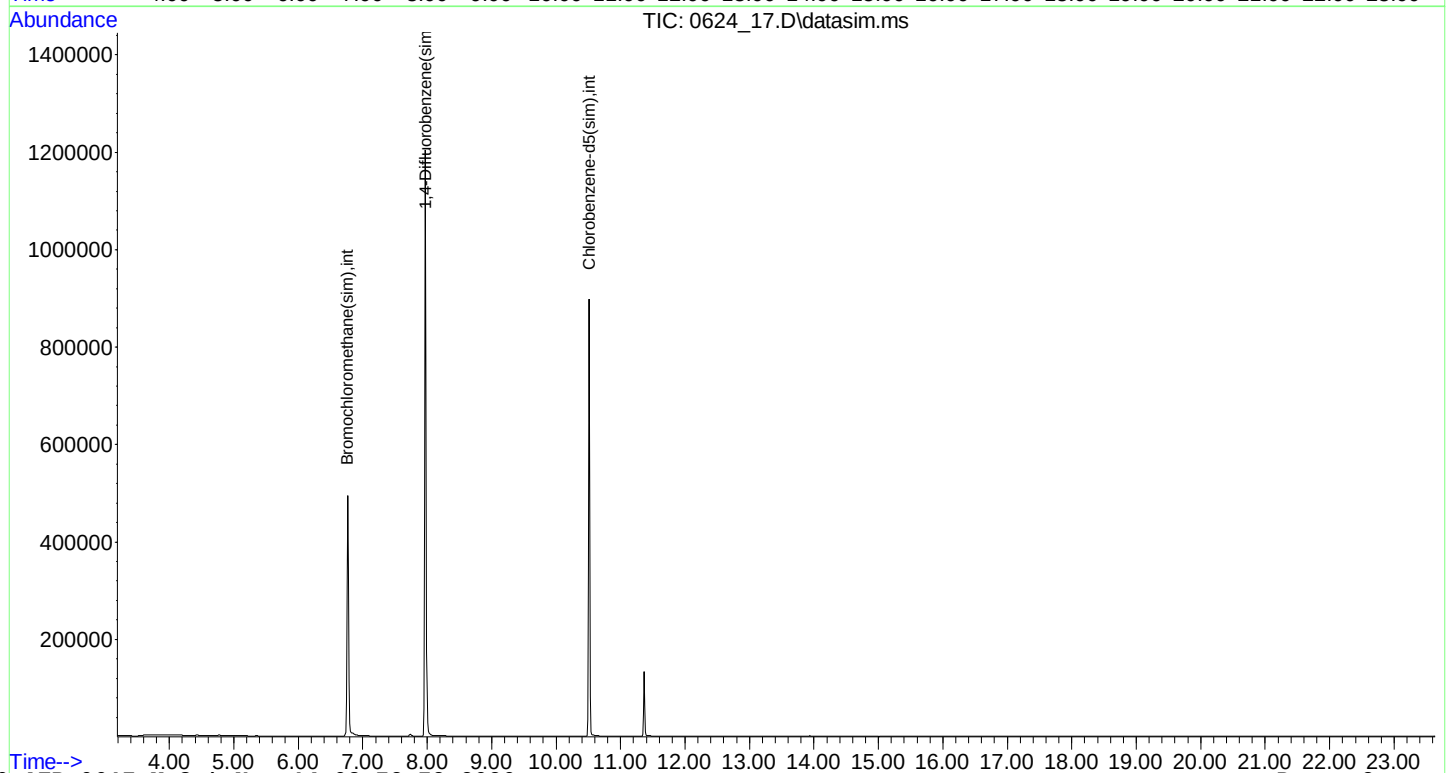
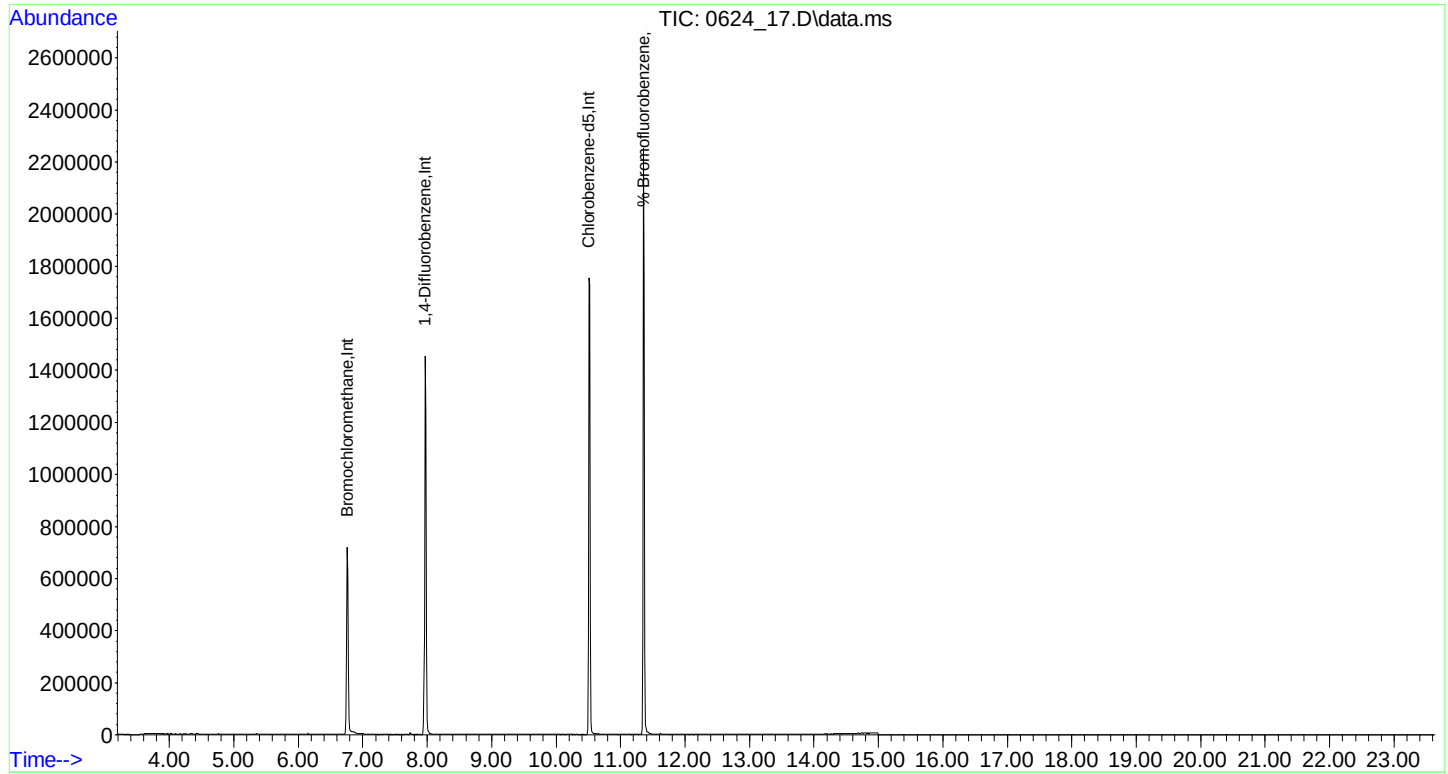
**(QT Reviewed)**

```

Data Path   : H:\AIR2020\CHEM20\06JUN\24\
Data File   : 0624_17.D
Acq On      : 24 Jun 2020    9:59 pm
Operator    :
Client ID   : CANISTER BLK 23343
Lab ID      : CANISTER BLK 23343
ALS Vial    : 45    Sample Multiplier: 1

```

Quant Time: Jun 25 08:17:35 2020  
Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0615.M  
Quant Title : VOA Standards for 5 point calibration  
QLast Update : Mon Jun 15 14:41:22 2020  
Response via : Initial Calibration



Client: WALDENE-IPARK Lab: Phoenix Env. Labs

Canister: CANBL Lab File ID: 0624\_08.D

Purge Volume 200 (cc) Date Analyzed: 06/24/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3)      ppbv

FORM I AIR

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\06JUN\24\  
 Data File : 0624\_08.D  
 Acq On : 24 Jun 2020 4:08 pm  
 Operator :  
 Client ID : CANISTER BLK 28549  
 Lab ID : CANISTER BLK 28549  
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 25 08:16:58 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0615.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jun 15 14:41:22 2020  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 6.748  | 130   | 223110   | 10.000   | ng    | -0.01    |
| 36) 1,4-Difluorobenzene      | 7.965  | 114   | 877996   | 10.000   | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.508 | 82    | 480078   | 10.000   | ng    | -0.01    |
| 80) Bromochloromethane(sim)  | 6.754  | 130   | 247295   | 10.000   | ng    | #-0.01   |
| 94) 1,4-Difluorobenzene(sim) | 7.971  | 114   | 1029357  | 10.000   | ng    | 0.00     |
| 104) Chlorobenzene-d5(sim)   | 10.513 | 82    | 541301   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 62) % Bromofluorobenzene     | 11.358 | 95    | 623082   | 9.629    | ppbv  | 0.00     |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 96.30%   |

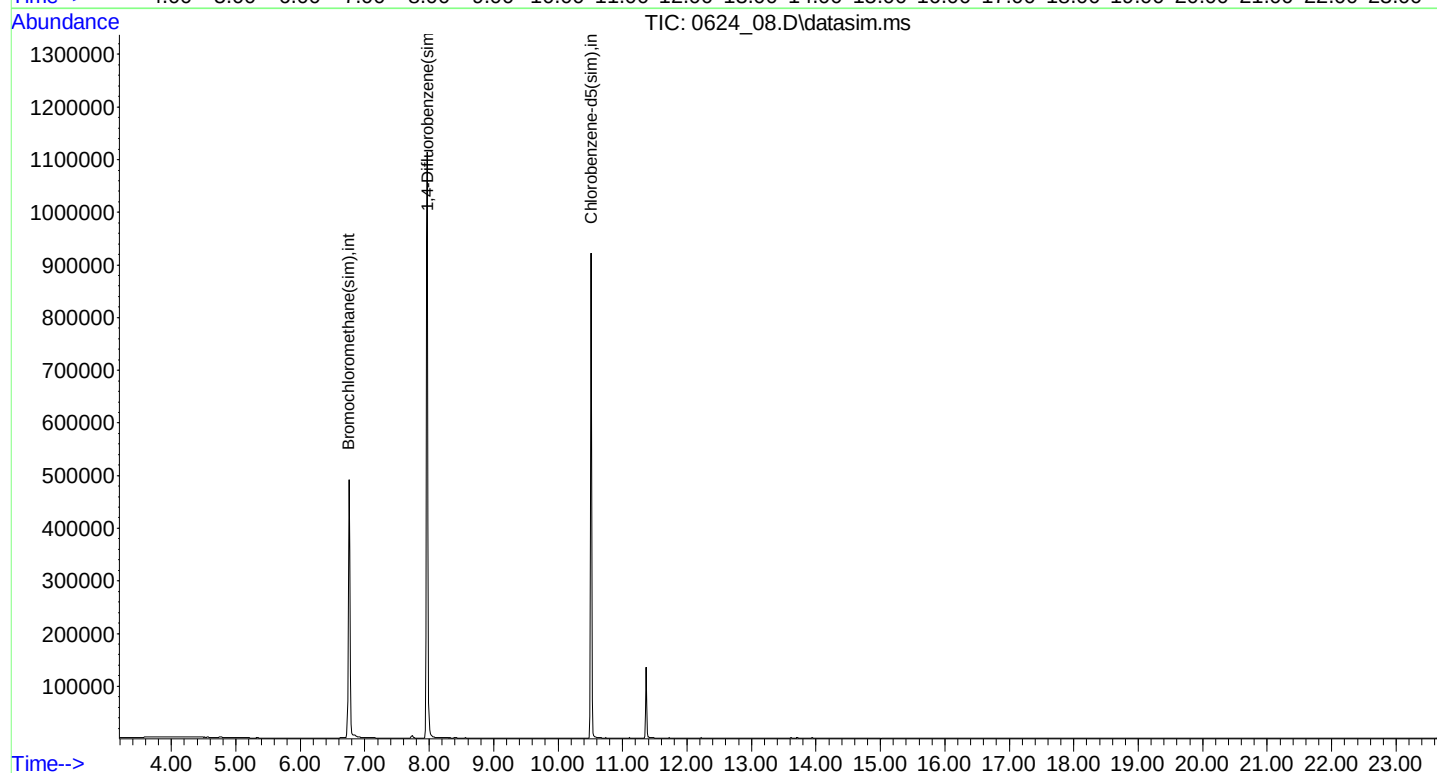
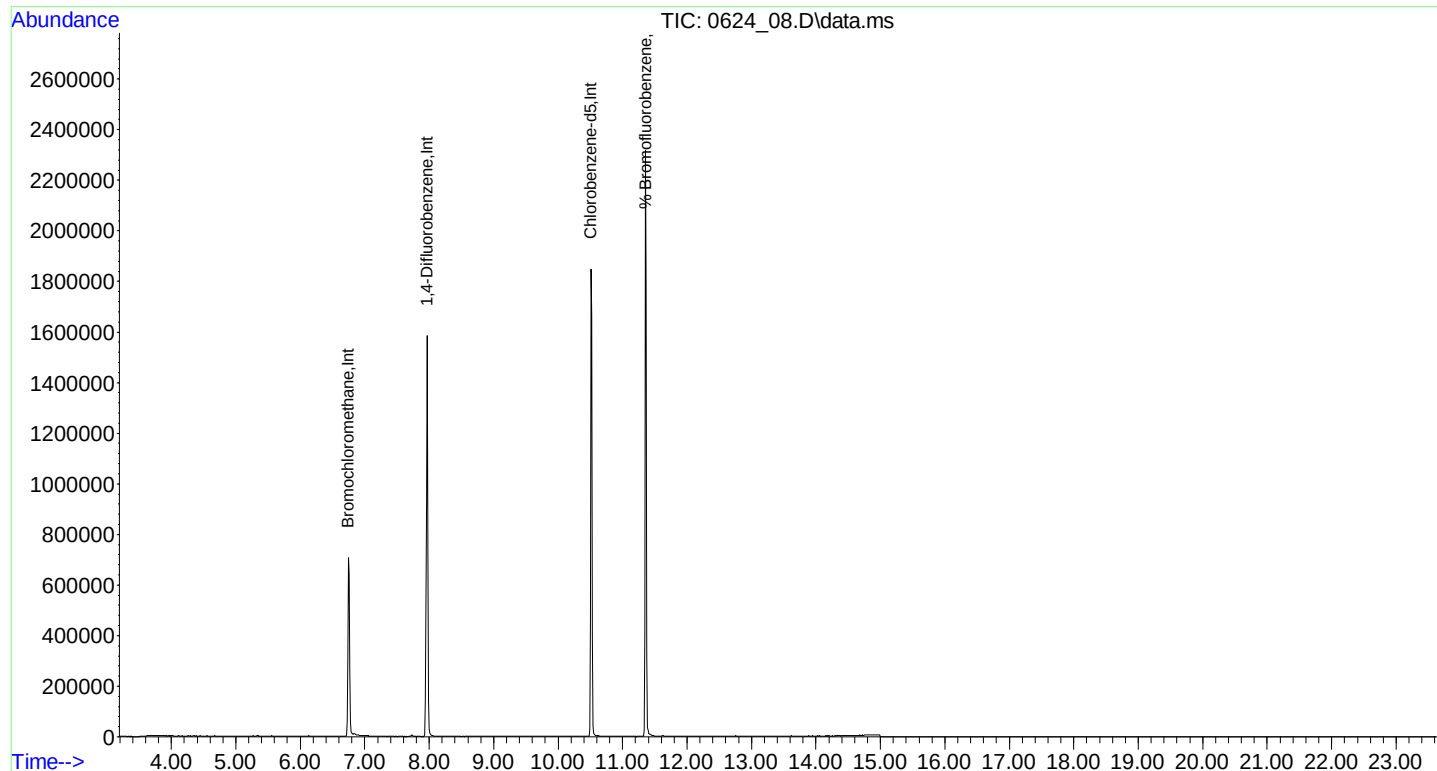
Target Compounds Qvalue

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\06JUN\24\  
 Data File : 0624\_08.D  
 Acq On : 24 Jun 2020 4:08 pm  
 Operator :  
 Client ID : CANISTER BLK 28549  
 Lab ID : CANISTER BLK 28549  
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 25 08:16:58 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0615.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jun 15 14:41:22 2020  
 Response via : Initial Calibration



Client: WALDENE-IPARK Lab: Phoenix Env. Labs

Canister: CANBL Lab File ID: 0518\_08.D

Purge Volume 200 (cc) Date Analyzed: 05/19/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3)      ppbv

FORM I AIR



# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\05MAY\18\  
 Data File : 0518\_08.D  
 Acq On : 18 May 2020 5:14 pm  
 Operator :  
 Client ID : CANISTER BLK 28562  
 Lab ID : CANISTER BLK 28562  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 19 07:11:52 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0510.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon May 11 08:38:18 2020  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 6.780  | 130   | 300905   | 10.000   | ng    | -0.01    |
| 36) 1,4-Difluorobenzene      | 7.987  | 114   | 899137   | 10.000   | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.528 | 82    | 522357   | 10.000   | ng    | 0.00     |
| 80) Bromochloromethane(sim)  | 6.785  | 130   | 335572   | 10.000   | ng    | #-0.01   |
| 94) 1,4-Difluorobenzene(sim) | 7.993  | 114   | 1030459  | 10.000   | ng    | 0.00     |
| 104) Chlorobenzene-d5(sim)   | 10.524 | 82    | 573454   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 62) % Bromofluorobenzene     | 11.369 | 95    | 698733   | 9.896    | ppbv  | 0.00     |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 99.00%   |

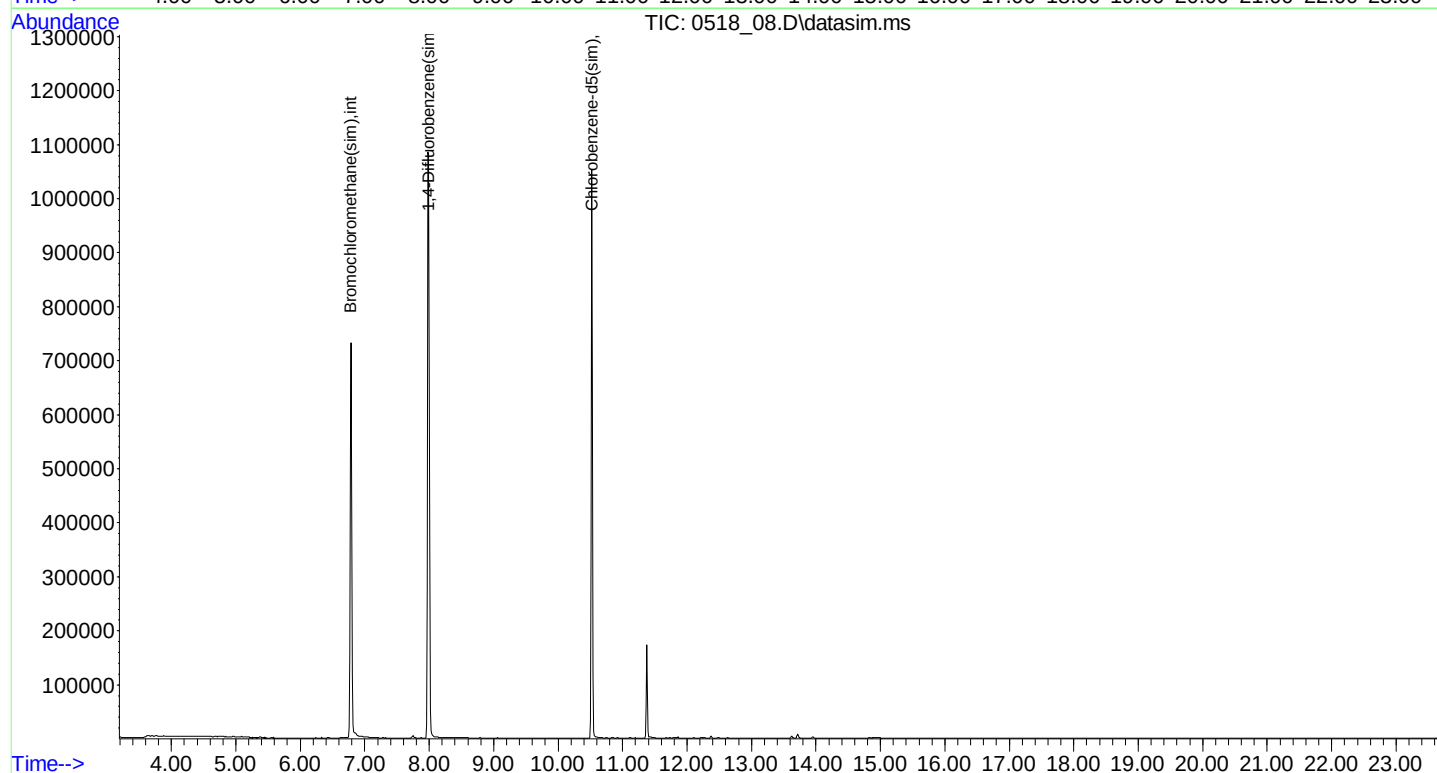
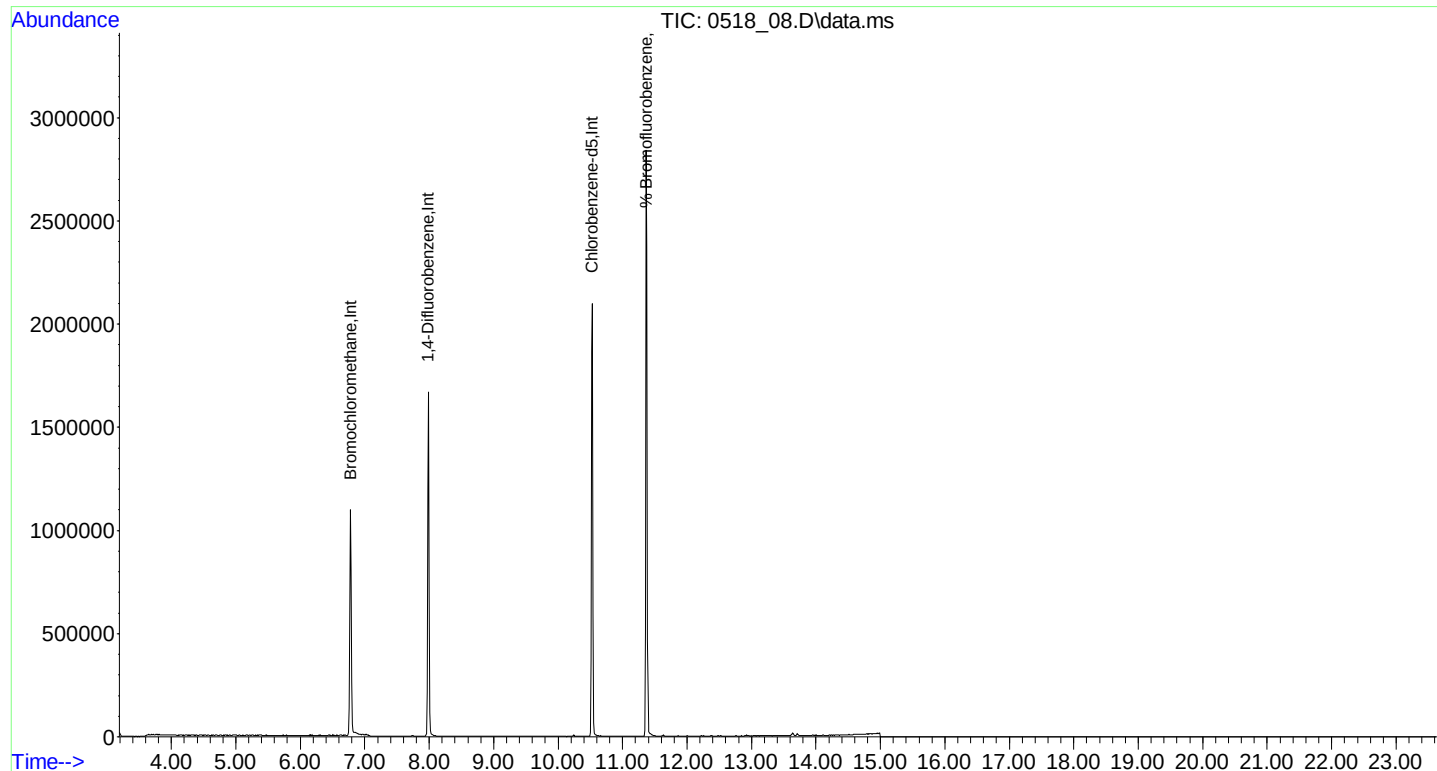
Target Compounds Qvalue

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\05MAY\18\  
 Data File : 0518\_08.D  
 Acq On : 18 May 2020 5:14 pm  
 Operator :  
 Client ID : CANISTER BLK 28562  
 Lab ID : CANISTER BLK 28562  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 19 07:11:52 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0510.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon May 11 08:38:18 2020  
 Response via : Initial Calibration



|              |               |                  |                    |
|--------------|---------------|------------------|--------------------|
| Client:      | WALDENE-IPARK | Lab:             | Phoenix Env. Labs  |
| SDG No.:     | GCG29877      | Lab Sample ID:   | CANISTER BLK 28624 |
| Canister:    | CANBL         | Lab File ID:     | 0624_19.D          |
| Instrument:  | CHEM20        | Column:          |                    |
| Purge Volume | 200 (cc)      | Date Received:   |                    |
|              |               | Date Analyzed:   | 06/24/20           |
| Matrix:      | AIR           | Dilution Factor: | 1                  |

CONCENTRATION UNITS: (ppbv or ug/m3)      ppbv

[illegible]

## FORM I AIR

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\06JUN\24\  
 Data File : 0624\_19.D  
 Acq On : 24 Jun 2020 11:16 pm  
 Operator :  
 Client ID : CANISTER BLK 28624  
 Lab ID : CANISTER BLK 28624  
 ALS Vial : 46 Sample Multiplier: 1

Quant Time: Jun 25 08:17:46 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0615.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jun 15 14:41:22 2020  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 6.738  | 130   | 224085   | 10.000   | ng    | -0.02    |
| 36) 1,4-Difluorobenzene      | 7.954  | 114   | 867302   | 10.000   | ng    | -0.01    |
| 53) Chlorobenzene-d5         | 10.508 | 82    | 474354   | 10.000   | ng    | -0.01    |
| 80) Bromochloromethane(sim)  | 6.744  | 130   | 245504   | 10.000   | ng    | #-0.02   |
| 94) 1,4-Difluorobenzene(sim) | 7.959  | 114   | 1002142  | 10.000   | ng    | -0.01    |
| 104) Chlorobenzene-d5(sim)   | 10.513 | 82    | 527336   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 62) % Bromofluorobenzene     | 11.358 | 95    | 607119   | 9.496    | ppbv  | 0.00     |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 95.00%   |

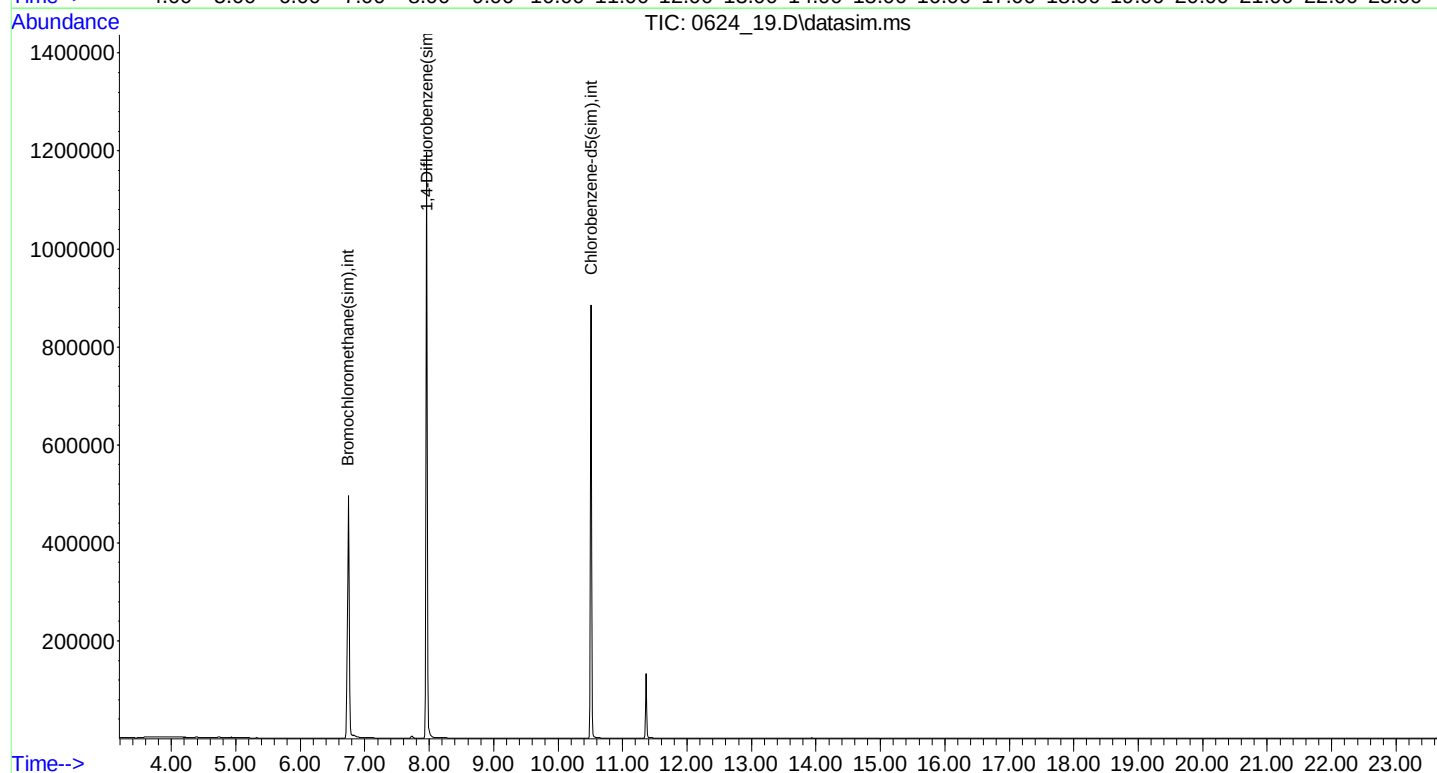
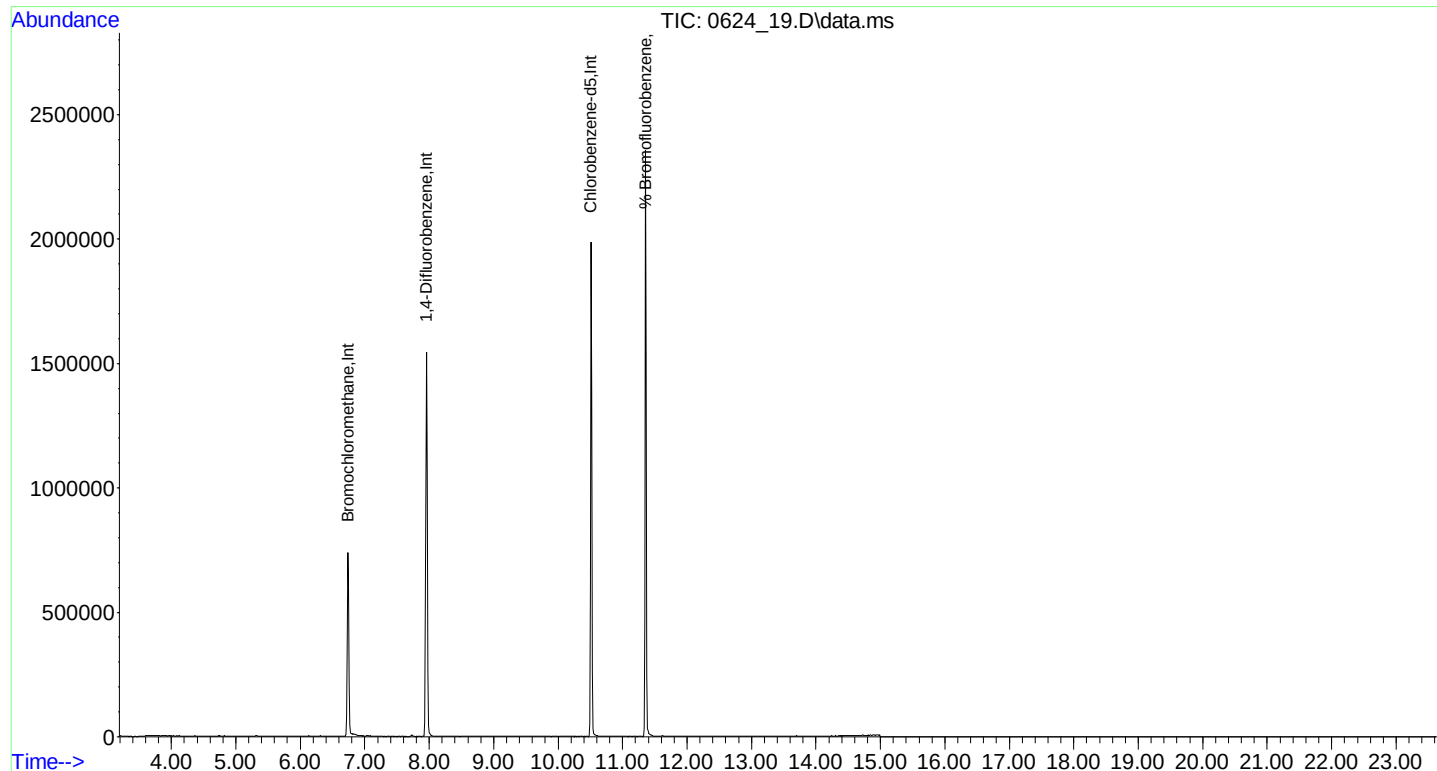
Target Compounds Qvalue

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\06JUN\24\  
 Data File : 0624\_19.D  
 Acq On : 24 Jun 2020 11:16 pm  
 Operator :  
 Client ID : CANISTER BLK 28624  
 Lab ID : CANISTER BLK 28624  
 ALS Vial : 46 Sample Multiplier: 1

Quant Time: Jun 25 08:17:46 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0615.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jun 15 14:41:22 2020  
 Response via : Initial Calibration



## Injection Log

Data Directory: H:\AIR2020\CHEM20\05MAY\10\

| Line | VL | FileName  | SampleName                                    | MiscInfo | Injection Time |
|------|----|-----------|-----------------------------------------------|----------|----------------|
| 1)   | 0  | 0511_28.D | XXXXXXXXXX                                    |          | N/A            |
| 2)   | 3  | 0510_01.D | XXXXXXXXXX                                    |          | 05/10/20 17:24 |
| 3)   | 3  | 0510_02.D | XXXXXXXXXX                                    |          | 05/10/20 18:00 |
| 4)   | 4  | 0510_03.D | XXXXXXXXXX                                    |          | 05/10/20 18:36 |
| 5)   | 5  | 0510_04.D | XXXXXXXXXX                                    |          | 05/10/20 19:12 |
| 6)   | 6  | 0510_05.D | XXXXXXXXXX                                    |          | 05/10/20 19:48 |
| 7)   | 7  | 0510_06.D | XXXXXXXXXX                                    |          | 05/10/20 20:27 |
| 8)   | 8  | 0510_07.D | XXXXXXXXXX                                    |          | 05/10/20 21:05 |
| 9)   | 9  | 0510_08.D | XXXXXXXXXX                                    |          | 05/10/20 21:41 |
| 10)  | 10 | 0510_09.D | XXXXXXXXXX                                    |          | 05/10/20 22:19 |
| 11)  | 11 | 0510_10.D | XXXXXXXXXX                                    |          | 05/10/20 22:58 |
| 12)  | 12 | 0510_11.D | XXXXXXXXXX                                    |          | 05/10/20 23:33 |
| 13)  | 13 | 0510_12.D | XXXXXXXXXX                                    |          | 05/11/20 0:09  |
| 14)  | 14 | 0510_13.D | XXXXXXXXXX                                    |          | 05/11/20 0:46  |
| 15)  | 15 | 0510_14.D | XXXXXXXXXX                                    |          | 05/11/20 1:23  |
| 16)  | 16 | 0510_15.D | XXXXXXXXXX                                    |          | 05/11/20 2:01  |
| 17)  | 17 | 0510_16.D | XXXXXXXXXX                                    |          | 05/11/20 2:36  |
| 18)  | 18 | 0510_17.D | XXXXXXXXXX                                    |          | 05/11/20 3:10  |
| 19)  | 19 | 0510_18.D | XXXXXXXXXX                                    |          | 05/11/20 6:49  |
| 20)  | 20 | 0510_19.D | XXXXXXXXXX                                    |          | 05/11/20 7:28  |
| 21)  | 21 | 0510_20.D | XXXXXXXXXX                                    |          | 05/11/20 8:06  |
| 22)  | 22 | 0510_21.D | XXXXXXXXXX                                    |          | 05/11/20 8:45  |
| 23)  | 23 | 0510_22.D | XXXXXXXXXX                                    |          | 05/11/20 9:23  |
| 24)  | 24 | 0510_23.D | XXXXXXXXXX                                    |          | 05/11/20 10:02 |
| 25)  | 25 | 0510_24.D | XXXXXXXXXX                                    |          | 05/11/20 10:41 |
| 26)  | 26 | 0510_25.D | CANISTER BLK 6L ind #2858 CANISTER BLK 6L ind |          | 05/11/20 11:20 |
| 27)  | 27 | 0510_26.D | XXXXXXXXXX                                    |          | 05/11/20 11:58 |
| 28)  | 28 | 0510_27.D | XXXXXXXXXX                                    |          | 05/11/20 12:37 |
| 29)  | 29 | 0510_28.D | XXXXXXXXXX                                    |          | 05/11/20 13:16 |
| 30)  | 30 | 0510_29.D | XXXXXXXXXX                                    |          | 05/11/20 13:54 |
| 31)  | 31 | 0510_30.D | XXXXXXXXXX                                    |          | 05/11/20 14:46 |
| 32)  | 32 | 0510_31.D | XXXXXXXXXX                                    |          | 05/11/20 15:26 |
| 33)  | 33 | 0510_32.D | XXXXXXXXXX                                    |          | 05/11/20 16:04 |
| 34)  | 34 | 0510_33.D | XXXXXXXXXX                                    |          | 05/11/20 16:44 |
| 35)  | 35 | 0510_34.D | XXXXXXXXXX                                    |          | 05/11/20 17:23 |
| 36)  | 36 | 0510_35.D | XXXXXXXXXX                                    |          | 05/11/20 18:03 |
| 37)  | 37 | 0510_36.D | XXXXXXXXXX                                    |          | 05/11/20 18:43 |
| 38)  | 38 | 0510_37.D | XXXXXXXXXX                                    |          | 05/11/20 19:22 |
| 39)  | 39 | 0510_38.D | XXXXXXXXXX                                    |          | 05/11/20 20:02 |
| 40)  | 40 | 0510_39.D | XXXXXXXXXX                                    |          | 05/12/20 0:59  |
| 41)  | 41 | 0510_40.D | XXXXXXXXXX                                    |          | 05/12/20 1:39  |
| 42)  | 42 | 0511_01.D | XXXXXXXXXX                                    |          | 05/12/20 2:16  |
| 43)  | 43 | 0511_02.D | XXXXXXXXXX                                    |          | 05/12/20 2:53  |
| 44)  | 44 | 0511_03.D | XXXXXXXXXX                                    |          | 05/12/20 3:31  |
| 45)  | 45 | 0511_04.D | XXXXXXXXXX                                    |          | 05/12/20 4:06  |
| 46)  | 46 | 0511_05.D | XXXXXXXXXX                                    |          | 05/12/20 4:40  |
| 47)  | 47 | 0511_06.D | XXXXXXXXXX                                    |          | 05/12/20 5:19  |
| 48)  | 48 | 0511_07.D | XXXXXXXXXX                                    |          | 05/12/20 5:58  |
| 49)  | 49 | 0511_08.D | XXXXXXXXXX                                    |          | 05/12/20 6:38  |
| 50)  | 50 | 0511_09.D | XXXXXXXXXX                                    |          | 05/12/20 7:17  |
| 51)  | 51 | 0511_10.D | XXXXXXXXXX                                    |          | 05/12/20 7:55  |
| 52)  | 52 | 0511_11.D | XXXXXXXXXX                                    |          | 05/12/20 8:36  |
| 53)  | 53 | 0511_12.D | XXXXXXXXXX                                    |          | 05/12/20 9:15  |
| 54)  | 54 | 0511_13.D | XXXXXXXXXX                                    |          | 05/12/20 9:55  |
| 55)  | 55 | 0511_14.D | XXXXXXXXXX                                    |          | 05/12/20 10:34 |
| 56)  | 56 | 0511_15.D | XXXXXXXXXX                                    |          | 05/12/20 11:13 |
| 57)  | 57 | 0511_16.D | XXXXXXXXXX                                    |          | 05/12/20 11:54 |
| 58)  | 58 | 0511_17.D | XXXXXXXXXX                                    |          | 05/12/20 12:36 |
| 59)  | 59 | 0511_18.D | XXXXXXXXXX                                    |          | 05/12/20 13:17 |
| 60)  | 60 | 0511_19.D | XXXXXXXXXX                                    |          | 05/12/20 14:13 |
| 61)  | 61 | 0511_20.D | XXXXXXXXXX                                    |          | 05/12/20 14:52 |
| 62)  | 62 | 0511_21.D | XXXXXXXXXX                                    |          | 05/12/20 15:31 |
| 63)  | 63 | 0511_22.D | XXXXXXXXXX                                    |          | 05/12/20 16:10 |
| 64)  | 64 | 0511_23.D | XXXXXXXXXX                                    |          | 05/12/20 16:49 |
| 65)  | 65 | 0511_24.D | XXXXXXXXXX                                    |          | 05/12/20 17:28 |
| 66)  | 66 | 0511_25.D | XXXXXXXXXX                                    |          | 05/12/20 18:07 |
| 67)  | 67 | 0511_26.D | XXXXXXXXXX                                    |          | 05/12/20 18:44 |
| 68)  | 68 | 0511_27.D | XXXXXXXXXX                                    |          | 05/12/20 19:21 |



# Injection Log

Data Directory: H:\AIR2020\CHEM20\05MAY\18\

| Line | VL | FileName  | SampleName         | MiscInfo           | Injection Time |
|------|----|-----------|--------------------|--------------------|----------------|
| 1)   | 0  | 0518_15.D | XXXXXXXXXX         |                    | N/A            |
| 2)   | 1  | 0518_01.D | XXXXXXXXXX         |                    | 05/18/20 12:38 |
| 3)   | 6  | 0518_02.D | XXXXXXXXXX         |                    | 05/18/20 13:15 |
| 4)   | 6  | 0518_03.D | XXXXXXXXXX         |                    | 05/18/20 13:52 |
| 5)   | 7  | 0518_04.D | XXXXXXXXXX         |                    | 05/18/20 14:30 |
| 6)   | 8  | 0518_05.D | XXXXXXXXXX         |                    | 05/18/20 15:04 |
| 7)   | 9  | 0518_06.D | XXXXXXXXXX         |                    | 05/18/20 15:39 |
| 8)   | 10 | 0518_07.D | XXXXXXXXXX         |                    | 05/18/20 16:35 |
| 9)   | 11 | 0518_08.D | CANISTER BLK 28562 | CANISTER BLK 28562 | 05/18/20 17:14 |
| 10)  | 12 | 0518_09.D | XXXXXXXXXX         |                    | 05/18/20 17:53 |
| 11)  | 13 | 0518_10.D | XXXXXXXXXX         |                    | 05/18/20 20:08 |
| 12)  | 14 | 0518_11.D | XXXXXXXXXX         |                    | 05/18/20 20:47 |
| 13)  | 15 | 0518_12.D | XXXXXXXXXX         |                    | 05/18/20 21:26 |
| 14)  | 16 | 0518_13.D | XXXXXXXXXX         |                    | 05/18/20 22:05 |
| 15)  | 17 | 0518_14.D | XXXXXXXXXX         |                    | 05/18/20 22:42 |



# Injection Log

Data Directory: H:\AIR2020\CHEM20\06JUN\24\

| Line | VL | FileName  | SampleName         | MiscInfo           | Injection Time |
|------|----|-----------|--------------------|--------------------|----------------|
| 1)   | 33 | 0624_01.D | XXXXXXXXXX         |                    | 06/24/20 11:28 |
| 2)   | 33 | 0624_02.D | XXXXXXXXXX         |                    | 06/24/20 12:04 |
| 3)   | 33 | 0624_03.D | XXXXXXXXXX         |                    | 06/24/20 12:43 |
| 4)   | 33 | 0624_04.D | XXXXXXXXXX         |                    | 06/24/20 13:17 |
| 5)   | 33 | 0624_05.D | XXXXXXXXXX         |                    | 06/24/20 13:52 |
| 6)   | 34 | 0624_06.D | CANISTER BLK 19426 | CANISTER BLK 19426 | 06/24/20 14:50 |
| 7)   | 35 | 0624_07.D | XXXXXXXXXX         |                    | 06/24/20 15:29 |
| 8)   | 36 | 0624_08.D | CANISTER BLK 28549 | CANISTER BLK 28549 | 06/24/20 16:08 |
| 9)   | 37 | 0624_09.D | XXXXXXXXXX         |                    | 06/24/20 16:47 |
| 10)  | 38 | 0624_10.D | XXXXXXXXXX         |                    | 06/24/20 17:26 |
| 11)  | 39 | 0624_11.D | XXXXXXXXXX         |                    | 06/24/20 18:05 |
| 12)  | 40 | 0624_12.D | XXXXXXXXXX         |                    | 06/24/20 18:44 |
| 13)  | 41 | 0624_13.D | XXXXXXXXXX         |                    | 06/24/20 19:23 |
| 14)  | 42 | 0624_14.D | XXXXXXXXXX         |                    | 06/24/20 20:02 |
| 15)  | 43 | 0624_15.D | XXXXXXXXXX         |                    | 06/24/20 20:41 |
| 16)  | 44 | 0624_16.D | XXXXXXXXXX         |                    | 06/24/20 21:20 |
| 17)  | 45 | 0624_17.D | CANISTER BLK 23343 | CANISTER BLK 23343 | 06/24/20 21:59 |
| 18)  | 46 | 0624_18.D | XXXXXXXXXX         |                    | 06/24/20 22:37 |
| 19)  | 46 | 0624_19.D | CANISTER BLK 28624 | CANISTER BLK 28624 | 06/24/20 23:16 |
| 20)  | 47 | 0624_20.D | XXXXXXXXXX         |                    | 06/24/20 23:55 |
| 21)  | 48 | 0624_21.D | XXXXXXXXXX         |                    | 06/25/20 0:33  |
| 22)  | 49 | 0624_22.D | XXXXXXXXXX         |                    | 06/25/20 1:12  |
| 23)  | 50 | 0624_23.D | XXXXXXXXXX         |                    | 06/25/20 1:50  |
| 24)  | 51 | 0624_24.D | XXXXXXXXXX         |                    | 06/25/20 2:27  |
| 25)  | 52 | 0624_25.D | XXXXXXXXXX         |                    | 06/25/20 3:04  |
| 26)  | 53 | 0624_26.D | XXXXXXXXXX         |                    | 06/25/20 3:42  |
| 27)  | 54 | 0624_27.D | XXXXXXXXXX         |                    | 06/25/20 4:16  |
| 28)  | 55 | 0624_28.D | XXXXXXXXXX         |                    | 06/25/20 4:50  |
| 29)  | 56 | 0624_29.D | XXXXXXXXXX         |                    | 06/25/20 9:52  |
| 30)  | 57 | 0624_30.D | XXXXXXXXXX         |                    | 06/25/20 10:30 |
| 31)  | 58 | 0624_31.D | XXXXXXXXXX         |                    | 06/25/20 11:09 |
| 32)  | 59 | 0624_32.D | XXXXXXXXXX         |                    | 06/25/20 11:48 |
| 33)  | 60 | 0624_33.D | XXXXXXXXXX         |                    | 06/25/20 12:27 |
| 34)  | 61 | 0624_34.D | XXXXXXXXXX         |                    | 06/25/20 13:06 |
| 35)  | 62 | 0624_35.D | XXXXXXXXXX         |                    | 06/25/20 13:46 |
| 36)  | 63 | 0624_36.D | XXXXXXXXXX         |                    | 06/25/20 14:25 |
| 37)  | 64 | 0624_37.D | XXXXXXXXXX         |                    | 06/25/20 15:04 |
| 38)  | 65 | 0624_38.D | XXXXXXXXXX         |                    | 06/25/20 15:42 |
| 39)  | 66 | 0624_39.D | XXXXXXXXXX         |                    | 06/25/20 16:21 |
| 40)  | 67 | 0624_40.D | XXXXXXXXXX         |                    | 06/25/20 17:00 |
| 41)  | 68 | 0624_41.D | XXXXXXXXXX         |                    | 06/25/20 17:39 |
| 42)  | 69 | 0624_42.D | XXXXXXXXXX         |                    | 06/25/20 18:19 |
| 43)  | 70 | 0624_43.D | XXXXXXXXXX         |                    | 06/25/20 19:00 |
| 44)  | 71 | 0624_44.D | XXXXXXXXXX         |                    | 06/25/20 19:39 |
| 45)  | 72 | 0624_45.D | XXXXXXXXXX         |                    | 06/25/20 20:18 |
| 46)  | 73 | 0624_46.D | XXXXXXXXXX         |                    | 06/25/20 20:55 |

# Injection Log

Data Directory: H:\AIR2020\CHEM20\07JUL\08\

| Line | VL | FileName  | SampleName             | MiscInfo      | Injection Time |
|------|----|-----------|------------------------|---------------|----------------|
| 1)   | 0  | 0708_04.D | XXXXXXXXXX             |               | N/A            |
| 2)   | 1  | 0708_01.D | XXXXXXXXXX             |               | 07/08/20 10:54 |
| 3)   | 6  | 0708_02.D | XXXXXXXXXX             |               | 07/08/20 11:31 |
| 4)   | 7  | 0708_03.D | XXXXXXXXXX             |               | 07/08/20 12:07 |
| 5)   | 7  | 0708_05.D | XXXXXXXXXX             |               | 07/08/20 13:05 |
| 6)   | 8  | 0708_06.D | BFB TUNE               | 0/0           | 07/08/20 13:40 |
| 7)   | 3  | 0708_07.D | ICAL 0.02              | 0.02          | 07/08/20 14:16 |
| 8)   | 4  | 0708_08.D | ICAL 0.035             | 0.035         | 07/08/20 14:52 |
| 9)   | 5  | 0708_09.D | ICAL 0.05              | 0.05          | 07/08/20 15:28 |
| 10)  | 6  | 0708_10.D | ICAL 0.1               | 0.10          | 07/08/20 16:04 |
| 11)  | 7  | 0708_11.D | ICAL 0.2               | 0.2           | 07/08/20 16:41 |
| 12)  | 8  | 0708_12.D | ICAL 0.5               | 0.50          | 07/08/20 17:19 |
| 13)  | 9  | 0708_13.D | ICAL 2.5               | 2.5           | 07/08/20 17:57 |
| 14)  | 10 | 0708_14.D | ICAL 5                 | 5.0           | 07/08/20 18:33 |
| 15)  | 11 | 0708_15.D | ICAL 25                | 25            | 07/08/20 19:11 |
| 16)  | 12 | 0708_16.D | ICAL 40                | 40            | 07/08/20 19:51 |
| 17)  | 13 | 0708_17.D | XXXXXXXXXX             |               | 07/08/20 20:25 |
| 18)  | 14 | 0708_18.D | ICAL 1                 | 1             | 07/08/20 21:02 |
| 19)  | 16 | 0708_19.D | ICAL 10                | 10            | 07/08/20 21:38 |
| 20)  | 17 | 0708_20.D | CG29882 LCS            | CG29882 LCS   | 07/08/20 22:16 |
| 21)  | 18 | 0708_21.D | CG29882 LCSD           | CG29882 LCSD  | 07/08/20 22:54 |
| 22)  | 18 | 0708_22.D | XXXXXXXXXX             |               | 07/08/20 23:29 |
| 23)  | 19 | 0708_23.D | CG29882 BLANK          | CG29882 BLANK | 07/09/20 0:03  |
| 24)  | 20 | 0708_24.D | IA-DUP (CALL CENTER)   | CG29877       | 07/09/20 0:44  |
| 25)  | 21 | 0708_25.D | IA-4 (CALL CENTER)     | CG29878       | 07/09/20 1:24  |
| 26)  | 22 | 0708_26.D | IA-5 (CALL CENTER)     | CG29879       | 07/09/20 2:04  |
| 27)  | 23 | 0708_27.D | IA-1 (CALL CENTER)     | CG29880       | 07/09/20 2:44  |
| 28)  | 24 | 0708_28.D | AA-1 (CALL CENTER)     | CG29881       | 07/09/20 3:25  |
| 29)  | 25 | 0708_29.D | IA-2 (CALL CENTER)     | CG29882       | 07/09/20 4:04  |
| 30)  | 26 | 0708_30.D | IA-2 (CALL CENTER) DUP | CG29882 DUP   | 07/09/20 4:44  |
| 31)  | 27 | 0708_31.D | XXXXXXXXXX             |               | 07/09/20 5:24  |
| 32)  | 28 | 0708_32.D | XXXXXXXXXX             |               | 07/09/20 6:04  |
| 33)  | 29 | 0708_33.D | XXXXXXXXXX             |               | 07/09/20 6:44  |
| 34)  | 30 | 0708_34.D | XXXXXXXXXX             |               | 07/09/20 7:24  |
| 35)  | 31 | 0708_35.D | XXXXXXXXXX             |               | 07/09/20 8:05  |
| 36)  | 32 | 0708_36.D | XXXXXXXXXX             |               | 07/09/20 8:45  |
| 37)  | 33 | 0708_37.D | XXXXXXXXXX             |               | 07/09/20 13:04 |
| 38)  | 34 | 0708_38.D | XXXXXXXXXX             |               | 07/09/20 13:40 |



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

Walden Environmental Engineering PLLC  
IPARK 0118.33

GCG31864

Ver 2

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Friday, October 16, 2020

Attn: Nora Brew  
Walden Environmental Engineering PLLC  
16 Spring Street  
Oyster Bay, NY 11771

Project ID: IPARK 0118.33  
SDG ID: GCG31864  
Sample ID#s: CG31864

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. 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.**  
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**NY ANALYTICAL SERVICES PROTOCOL  
DATA PACKAGE**

**Client: Walden Environmental Engineering PLLC**  
**Project: IPARK 0118.33**  
**Laboratory Project: GCG31864**



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



# **NY Analytical Services Protocol Format**

**October 16, 2020**

**SDG I.D.: GCG31864**

**Walden Environmental Engineering PLLC IPARK 0118.33**

---

## **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.





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

October 16, 2020

SDG I.D.: GCG31864

Walden Environmental Engineering PLLC IPARK 0118.33

---

## Laboratory Chronicle

| Sample  | Analysis         | Collection Date | Prep Date | Analysis Date | Analyst | Hold Time Met |
|---------|------------------|-----------------|-----------|---------------|---------|---------------|
| CG31864 | Volatiles (TO15) | 07/09/20        | 07/13/20  | 07/13/20      | KCA     | Y             |



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



## SDG Comments

October 16, 2020

SDG I.D.: GCG31864

---

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.



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

October 16, 2020

SDG I.D.: GCG31864

Project ID: IPARK 0118.33

---

| Client Id          | Lab Id  | Matrix |
|--------------------|---------|--------|
| IA-3 (CALL CENTER) | CG31864 | AIR    |



Environmental Laboratories, Inc.  
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## Analysis Report

October 16, 2020

FOR: Attn: Nora Brew  
Walden Environmental Engineering PLLC  
16 Spring Street  
Oyster Bay, NY 11771

### Sample Information

Matrix: AIR  
Location Code: WALDENE-IPARK  
Rush Request: 72 Hour  
P.O.#:  
Canister Id: 475

### Custody Information

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

### Date

07/09/20 13:15  
07/10/20 16:05

### Time

Project ID: IPARK 0118.33  
Client ID: IA-3 (CALL CENTER)

### Laboratory Data

SDG ID: GCG31864  
Phoenix ID: CG31864

| 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-Trichloroethane                    | ND             | 0.200      | 0.200       | ND              | 1.09        | 1.09        | 07/13/20  | KCA | 1        |
| 1,1-Dichloroethene                       | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/13/20  | KCA | 1        |
| 1,2,4-Trichlorobenzene                   | ND             | 0.250      | 0.250       | ND              | 1.85        | 1.85        | 07/13/20  | KCA | 1        |
| 1,2-Dichlorobenzene                      | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/13/20  | KCA | 1        |
| 1,3-Dichlorobenzene                      | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/13/20  | KCA | 1        |
| 1,4-Dichlorobenzene                      | ND             | 0.150      | 0.150       | ND              | 0.90        | 0.90        | 07/13/20  | KCA | 1        |
| Acetone                                  | 10.3           | 1.00       | 1.00        | 24.5            | 2.37        | 2.37        | 07/13/20  | KCA | 1        |
| Benzene                                  | 0.091          | 0.050      | 0.050       | 0.29            | 0.16        | 0.16        | 07/13/20  | KCA | 1        |
| Carbon Tetrachloride                     | 0.081          | 0.020      | 0.020       | 0.51            | 0.13        | 0.13        | 07/13/20  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.200      | 0.200       | ND              | 0.92        | 0.92        | 07/13/20  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | ND             | 0.050      | 0.050       | ND              | 0.20        | 0.20        | 07/13/20  | KCA | 1        |
| Dichlorodifluoromethane                  | 0.884          | 0.200      | 0.200       | 4.37            | 0.99        | 0.99        | 07/13/20  | KCA | 1        |
| Ethylbenzene                             | ND             | 0.150      | 0.150       | ND              | 0.65        | 0.65        | 07/13/20  | KCA | 1        |
| m,p-Xylene                               | 0.558          | 0.150      | 0.150       | 2.42            | 0.65        | 0.65        | 07/13/20  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.400      | 0.400       | ND              | 1.39        | 1.39        | 07/13/20  | KCA | 1        |
| o-Xylene                                 | 0.196          | 0.150      | 0.150       | 0.85            | 0.65        | 0.65        | 07/13/20  | KCA | 1        |
| Tetrachloroethene                        | 0.331          | 0.100      | 0.100       | 2.24            | 0.68        | 0.68        | 07/13/20  | KCA | 1        |
| Toluene                                  | 4.77           | 0.200      | 0.200       | 18.0            | 0.75        | 0.75        | 07/13/20  | KCA | 1        |
| Trichloroethene                          | 0.066          | 0.037      | 0.037       | 0.35            | 0.20        | 0.20        | 07/13/20  | KCA | 1        |
| Trichlorofluoromethane                   | 8.99           | 0.150      | 0.150       | 50.5            | 0.84        | 0.84        | 07/13/20  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.150      | 0.150       | ND              | 1.15        | 1.15        | 07/13/20  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.020      | 0.020       | ND              | 0.05        | 0.05        | 07/13/20  | KCA | 1        |
| <b><u>QA/QC Surrogates/Internals</u></b> |                |            |             |                 |             |             |           |     |          |
| % Bromofluorobenzene                     | 99             | %          | %           | 99              | %           | %           | 07/13/20  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 103            | %          | %           | 103             | %           | %           | 07/13/20  | KCA | 1        |
| % IS-Bromochloromethane                  | 100            | %          | %           | 100             | %           | %           | 07/13/20  | KCA | 1        |

Client ID: IA-3 (CALL CENTER)

| Parameter             | ppbv<br>Result | ppbv<br>RL | LOD/<br>MDL | ug/m3<br>Result | ug/m3<br>RL | LOD/<br>MDL | Date/Time | By    |
|-----------------------|----------------|------------|-------------|-----------------|-------------|-------------|-----------|-------|
| % IS-Chlorobenzene-d5 | 107            | %          | %           | 107             | %           | %           | 07/13/20  | KCA 1 |

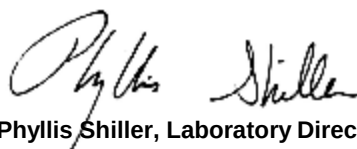
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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:**

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

October 16, 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

October 16, 2020

FOR: Attn: Nora Brew  
Walden Environmental Engineering PLLC  
16 Spring Street  
Oyster Bay, NY 11771

Location Code: WALDENE-IPARK

SDG I.D.: GCG31864

Project ID: IPARK 0118.33

---

| 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 |
| IA-3 (CALL CENTER) | CG31864 | 475      | 6.0L | 5600    | 06/29/20     | -30        | 0     | 10.8     | 11.5    | 6.3      | -26      | -3     | 07/09/20 07:48      | 07/09/20 13:15    |



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# QA/QC Report

October 16, 2020

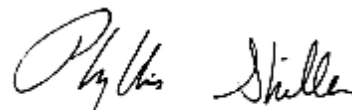
## QA/QC Data

SDG I.D.: GCG31864

| 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 549290 (ppbv), QC Sample No: CG31864 (CG31864) |             |                   |              |                    |          |           |                           |                        |                          |                       |            |                    |                    |
| <b>Volatiles</b>                                           |             |                   |              |                    |          |           |                           |                        |                          |                       |            |                    |                    |
| 1,1,1-Trichloroethane                                      | ND          | 0.200             | ND           | 1.09               | 105      | 102       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1-Dichloroethene                                         | ND          | 0.050             | ND           | 0.20               | 109      | 105       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2,4-Trichlorobenzene                                     | ND          | 0.250             | ND           | 1.85               | 100      | 95        | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-Dichlorobenzene                                        | ND          | 0.150             | ND           | 0.90               | 107      | 103       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,3-Dichlorobenzene                                        | ND          | 0.150             | ND           | 0.90               | 107      | 101       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,4-Dichlorobenzene                                        | ND          | 0.150             | ND           | 0.90               | 107      | 99        | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Acetone                                                    | ND          | 1.00              | ND           | 2.37               | 100      | 96        | 24.5                      | 23.7                   | 10.3                     | 10.0                  | 3.0        | 70 - 130           | 25                 |
| Benzene                                                    | ND          | 0.050             | ND           | 0.16               | 98       | 95        | 0.29                      | 0.27                   | 0.091                    | 0.084                 | NC         | 70 - 130           | 25                 |
| Carbon Tetrachloride                                       | ND          | 0.020             | ND           | 0.13               | 118      | 116       | 0.51                      | 0.52                   | 0.081                    | 0.082                 | NC         | 70 - 130           | 25                 |
| Chlorobenzene                                              | ND          | 0.200             | ND           | 0.92               | 104      | 101       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Cis-1,2-Dichloroethene                                     | ND          | 0.050             | ND           | 0.20               | 105      | 101       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Dichlorodifluoromethane                                    | ND          | 0.200             | ND           | 0.99               | 84       | 79        | 4.37                      | 4.23                   | 0.884                    | 0.856                 | NC         | 70 - 130           | 25                 |
| Ethylbenzene                                               | ND          | 0.150             | ND           | 0.65               | 103      | 99        | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| m,p-Xylene                                                 | ND          | 0.150             | ND           | 0.65               | 106      | 100       | 2.42                      | 1.62                   | 0.558                    | 0.373                 | NC         | 70 - 130           | 25                 |
| Methylene Chloride                                         | ND          | 0.400             | ND           | 1.39               | 103      | 99        | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| o-Xylene                                                   | ND          | 0.150             | ND           | 0.65               | 104      | 100       | 0.85                      | 0.71                   | 0.196                    | 0.163                 | NC         | 70 - 130           | 25                 |
| Tetrachloroethene                                          | ND          | 0.100             | ND           | 0.68               | 105      | 100       | 2.24                      | 1.40                   | 0.331                    | 0.207                 | NC         | 70 - 130           | 25                 |
| Toluene                                                    | ND          | 0.200             | ND           | 0.75               | 102      | 99        | 18.0                      | 18.3                   | 4.77                     | 4.86                  | 1.9        | 70 - 130           | 25                 |
| Trichloroethene                                            | ND          | 0.037             | ND           | 0.20               | 101      | 98        | 0.35                      | ND                     | 0.066                    | ND                    | NC         | 70 - 130           | 25                 |
| Trichlorofluoromethane                                     | ND          | 0.150             | ND           | 0.84               | 112      | 108       | 50.4                      | 51.3                   | 8.98                     | 9.13                  | 1.7        | 70 - 130           | 25                 |
| Trichlorotrifluoroethane                                   | ND          | 0.150             | ND           | 1.15               | 111      | 107       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Vinyl Chloride                                             | ND          | 0.020             | ND           | 0.05               | 107      | 101       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| % Bromofluorobenzene                                       | 97          | %                 | 97           | %                  | 101      | 100       | 99                        | 98                     | 99                       | 98                    | NC         | 70 - 130           | 25                 |
| % IS-1,4-Difluorobenzene                                   | 111         | %                 | 111          | %                  | 101      | 106       | 103                       | 101                    | 103                      | 101                   | NC         | 60 - 140           | 25                 |
| % IS-Bromochloromethane                                    | 111         | %                 | 111          | %                  | 100      | 105       | 100                       | 101                    | 100                      | 101                   | NC         | 60 - 140           | 25                 |
| % IS-Chlorobenzene-d5                                      | 113         | %                 | 113          | %                  | 102      | 108       | 107                       | 106                    | 107                      | 106                   | NC         | 60 - 140           | 25                 |

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  
October 16, 2020

# Sample Criteria Exceedances Report

## GCG31864 - WALDENE-IPARK

Criteria: None

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.





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

## Individual Canister Certification

October 16, 2020

### Sample Information

Matrix: AIR

Canister Id: 475

Certification Date: 06/25/20 1:12 AM

Data File: H:\AIR2020\CHEM20\06JUN\24\0624\_22.D\0624\_22-20\_AIR\_0615.rr

Project ID: IPARK 0118.33

Client ID: IA-3 (CALL CENTER)

SDG ID: GCG31864

Phoenix ID: CG31864

| Analyte                  | Result (ppbv) | Analyte                 | Result (ppbv) |
|--------------------------|---------------|-------------------------|---------------|
| 1,1,1-Trichloroethane    | <0.20         | 1,1-Dichloroethene      | <0.05         |
| 1,2,4-Trichlorobenzene   | <0.25         | 1,2-Dichlorobenzene     | <0.15         |
| 1,3-Dichlorobenzene      | <0.15         | 1,4-Dichlorobenzene     | <0.15         |
| Acetone                  | <1.0          | Benzene                 | <0.050        |
| Carbon Tetrachloride     | <0.02         | Chlorobenzene           | <0.20         |
| Cis-1,2-Dichloroethene   | <0.05         | Dichlorodifluoromethane | <0.20         |
| Ethylbenzene             | <0.15         | m,p-Xylene              | <0.15         |
| Methylene Chloride       | <0.40         | o-Xylene                | <0.15         |
| Tetrachloroethene        | <0.10         | Toluene                 | <0.20         |
| Trichloroethene          | <0.037        | Trichlorofluoromethane  | <0.15         |
| Trichlorotrifluoroethane | <0.15         | Vinyl Chloride          | <0.02         |



Shannon Wilhelm

909 31864

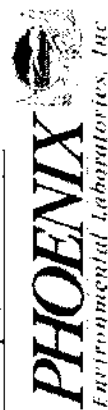
To: Michael Lapman  
Subject: RE: Walden

From: Michael Lapman  
Sent: Friday, July 10, 2020 2:43 PM  
To: Shannon Wilhelm  
Subject: FW: Walden

3-Day TAT please.

Thank you and have a nice weekend!!

Regards,  
Michael Lapman  
Phoenix Environmental Laboratories, Inc.  
587 East Middle Turnpike  
Manchester, CT 06040  
Direct Line: 917.449.0850  
Laboratory: 860.812.0086  
[www.phoenixlabs.com](http://www.phoenixlabs.com)



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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: Walden Environmental Engineering PLLC

IPARK 0118.33

Laboratory Project: GCG31864

Volatile TO15  
Ver 2

## 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. Samples that require dilution may result in elevated reporting limits that exceed requested criteria for one or more analytes.

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: GCG31864

## **Volatile Air Conformance / Non-Conformance Summary**

Project ID / Client ID: IPARK 0118.33, Walden Environmental Engineering PLLC

---

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: CG31864 LCS  
All LCS recoveries met criteria with the following exceptions: None.

Sample: CG31864 LCSD  
All LCS recoveries met criteria with the following exceptions: None.

Form 4 (Method Blank):

-----  
File: CHEM24 0712\_07.D  
All compounds were non-detect with the following exceptions: None

Form 5 (Tune):

-----  
File: CHEM24 0710\_04.D  
All Tune criteria was met with the following exceptions: None.

File: CHEM24 0712\_02.D  
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

-----  
Calibration: CHEM24 07/10/20 - 07/11/20  
100% of method compounds met criteria.  
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM24 07/10/20 - 07/11/20  
100% of method compounds met criteria.  
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

-----  
File: CHEM24 0712\_02.D (Opening)  
98% of method compounds met criteria.  
The following compounds did not meet maximum % deviations: None.

Form 8 (Internal Standard and Retention Time):

-----



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



SDG: GCG31864

## **Volatile Air Conformance / Non-Conformance Summary**

Project ID / Client ID: IPARK 0118.33, Walden Environmental Engineering PLLC

---

File: CHEM24 - 24AIR\_0710\_wal.M / 0712\_02.D Full

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

File: CHEM24 - 24AIR\_0710\_wal.M / 0712\_02.D Sim

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

File: CHEM24 - 24AIR\_0710\_wal.M / Average Full

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

File: CHEM24 - 24AIR\_0710\_wal.M / Average Sim

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

10/14/20

Alejandro Paredes

Project Manager

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.:            SDG: GCG31864

QC Batch Id: 549290 QC Sample Id: CG31864

|    | CLIENT<br>ID           | LAB<br>ID     | SMC1<br>BFB # |  |  |  | TOT<br>OUT |
|----|------------------------|---------------|---------------|--|--|--|------------|
| 01 | CG31864 LCS            | CG31864 LCS   | 101           |  |  |  | 0          |
| 02 | CG31864 LCSD           | CG31864 LCSD  | 100           |  |  |  | 0          |
| 03 | CG31864 BLANK          | CG31864 BLANK | 97            |  |  |  | 0          |
| 04 | IA-3 (CALL CENTER)     | CG31864       | 99            |  |  |  | 0          |
| 05 | IA-3 (CALL CENTER) DUP | CG31864 DUP   | 98            |  |  |  | 0          |
| 06 |                        |               |               |  |  |  |            |
| 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 22 of 101







4A  
AIR METHOD BLANK SUMMARY

Client ID

CG31864 BLANK

Lab Name: Phoenix Environmental Labs

Client: \_\_\_\_\_

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

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

SDG No.: GCG31864

Lab File ID: 0712\_07.D

Lab Sample ID: CG31864 BLK

Date Analyzed: 07/13/2020

Time Analyzed: 13:29

GC Column: RTX-VMS

Lab Batch ID: 549290

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 | CG31864 LCS            | CG31864 LCS      | 0712_04.D      | 11:50            |
| 02 | CG31864 LCSD           | CG31864 LCS      | 0712_05.D      | 12:27            |
| 03 | IA-3 (CALL CENTER)     | CG31864          | 0712_11.D      | 15:56            |
| 04 | IA-3 (CALL CENTER) DUP | CG31864 DUP      | 0712_12.D      | 16:35            |
| 05 |                        |                  |                |                  |
| 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: \_\_\_\_\_

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCG31864

Lab File ID: 0710\_04.D BFB Injection Date: 07/10/20

Instrument ID: CHEM24 BFB Injection Time: 19:38

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

AutoFind: Scans 1668, 1669, 1670; Background Corrected with Scan 1659

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 8.0 - 40.0% of mass 95             | 15.1                 |
| 75  | 30.0 - 66.0% of mass 95            | 42.5                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0% of mass 95              | 6.6                  |
| 173 | Less than 2.0% of mass 174         | 0.0 ( 0.0 )1         |
| 174 | 50.0 - 120.0% of mass 95           | 106.0                |
| 175 | 4.0 - 9.0% of mass 174             | 7.1 ( 7.5 )1         |
| 176 | 93.0 - 101.0% of mass 174          | 97.2 ( 103.0 )1      |
| 177 | 5.0 - 9.0% of mass 176             | 6.5 ( 6.7 )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          | 0710_05.D   | 07/10/20      | 20:09         |  |
| 02 | ICAL 0.035 | 0.035         | 0710_06.D   | 07/10/20      | 20:41         |  |
| 03 | ICAL 0.05  | 0.05          | 0710_07.D   | 07/10/20      | 21:13         |  |
| 04 | ICAL 0.1   | 0.10          | 0710_08.D   | 07/10/20      | 21:46         |  |
| 05 | ICAL 0.5   | 0.5           | 0710_09.D   | 07/10/20      | 22:23         |  |
| 06 | ICAL 2.5   | 2.5           | 0710_10.D   | 07/10/20      | 23:00         |  |
| 07 | ICAL 5     | 5.0           | 0710_11.D   | 07/10/20      | 23:31         |  |
| 08 | ICAL 25    | 25            | 0710_12.D   | 07/11/20      | 00:53         |  |
| 09 | ICAL 40    | 40            | 0710_13.D   | 07/11/20      | 01:33         |  |
| 10 | ICAL 1     | 1ppb          | 0710_15.D   | 07/11/20      | 02:38         |  |
| 11 | ICAL 0.2   | 0.2ppb        | 0710_16.D   | 07/11/20      | 03:12         |  |
| 12 | ICAL 10    | 10ppb         | 0710_17.D   | 07/11/20      | 03:45         |  |
| 13 |            |               |             |               |               |  |
| 14 |            |               |             |               |               |  |
| 15 |            |               |             |               |               |  |
| 16 |            |               |             |               |               |  |
| 17 |            |               |             |               |               |  |
| 18 |            |               |             |               |               |  |
| 19 |            |               |             |               |               |  |
| 20 |            |               |             |               |               |  |
| 21 |            |               |             |               |               |  |
| 22 |            |               |             |               |               |  |
| 23 |            |               |             |               |               |  |
| 24 |            |               |             |               |               |  |
| 25 |            |               |             |               |               |  |

(\*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
Data File : 0710\_04.D  
Acq On : 10 Jul 2020 7:38 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:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
Title : VOA Standards for 5 point calibration  
Last Update : Mon Jul 13 09:56:21 2020

AutoFind: Scans 1668, 1669, 1670; Background Corrected with Scan 1659

| 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              | 15.1         | 70144      | PASS                |
| 75             | 95              | 30              | 66              | 42.5         | 197099     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 463446     | PASS                |
| 96             | 95              | 5               | 9               | 6.6          | 30525      | PASS                |
| 173            | 174             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 174            | 95              | 50              | 120             | 106.3        | 492672     | PASS                |
| 175            | 174             | 4               | 9               | 7.1          | 34805      | PASS                |
| 176            | 174             | 93              | 101             | 97.2         | 479019     | PASS                |
| 177            | 176             | 5               | 9               | 6.5          | 31235      | PASS                |

24AIR\_0710.M Mon Jul 13 10:08:31 2020

5B  
AIR INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: \_\_\_\_\_

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCG31864

Lab File ID: 0712\_02.D BFB Injection Date: 07/12/20

Instrument ID: CHEM24 BFB Injection Time: 22:02

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

AutoFind: Scans 1668, 1669, 1670; Background Corrected with Scan 1660

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 8.0 - 40.0% of mass 95             | 15.7                 |
| 75  | 30.0 - 66.0% of mass 95            | 43.7                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0% of mass 95              | 6.6                  |
| 173 | Less than 2.0% of mass 174         | 0.5 ( 0.5 )1         |
| 174 | 50.0 - 120.0% of mass 95           | 104.0                |
| 175 | 4.0 - 9.0% of mass 174             | 7.0 ( 7.3 )1         |
| 176 | 93.0 - 101.0% of mass 174          | 97.4 ( 101.0 )1      |
| 177 | 5.0 - 9.0% of mass 176             | 6.5 ( 6.6 )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       | 0712_02.D   | 07/12/20      | 22:02         |  |
| 02 | CG31864 LCS            | CG31864 LCS   | 0712_04.D   | 07/13/20      | 11:50         |  |
| 03 | CG31864 LCSD           | CG31864 LCSD  | 0712_05.D   | 07/13/20      | 12:27         |  |
| 04 | CG31864 BLANK          | CG31864 BLANK | 0712_07.D   | 07/13/20      | 13:29         |  |
| 05 | IA-3 (CALL CENTER)     | CG31864       | 0712_11.D   | 07/13/20      | 15:56         |  |
| 06 | IA-3 (CALL CENTER) DUP | CG31864 DUP   | 0712_12.D   | 07/13/20      | 16:35         |  |
| 07 |                        |               |             |               |               |  |
| 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:\AIR2020\CHEM24\07JUL\12A\  
Data File : 0712\_02.D  
Acq On : 12 Jul 2020 10:02 pm  
Operator : Keith  
Sample : 1ppb cc  
Misc :  
ALS Vial : 134 Sample Multiplier: 1

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

Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
Title : VOA Standards for 5 point calibration  
Last Update : Mon Jul 13 10:21:18 2020

AutoFind: Scans 1668, 1669, 1670; Background Corrected with Scan 1660

| 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              | 15.7         | 58504      | PASS                |
| 75             | 95              | 30              | 66              | 43.7         | 162965     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 373205     | PASS                |
| 96             | 95              | 5               | 9               | 6.6          | 24776      | PASS                |
| 173            | 174             | 0.00            | 2               | 0.5          | 1830       | PASS                |
| 174            | 95              | 50              | 120             | 103.9        | 387712     | PASS                |
| 175            | 174             | 4               | 9               | 7.0          | 27181      | PASS                |
| 176            | 174             | 93              | 101             | 97.4         | 377707     | PASS                |
| 177            | 176             | 5               | 9               | 6.5          | 24653      | PASS                |

24AIR\_0710\_wal.M Tue Oct 13 15:28:38 2020

8A  
AIR INTERNAL STANDARD AREA AND RT SUMMARY  
Full Scan

Lab Name: Phoenix Environmental Labs Client: \_\_\_\_\_

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCG31864

Lab Method / File Id: 24AIR\_0710\_wal.M / Average Date Analyzed: 07/11/20

Instrument ID: CHEM24 Time Analyzed: 2:38

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 | 359615                  | 5.44     | 1260256                 | 7.37     | 607493                  | 10.93    |  |  | Average        |
| UPPER LIMIT | 505258                  | 5.77     | 1770659                 | 7.70     | 853528                  | 11.26    |  |  | Average        |
| LOWER LIMIT | 213971                  | 5.11     | 749852                  | 7.04     | 361458                  | 10.60    |  |  | Average        |
|             |                         |          |                         |          |                         |          |  |  |                |
| CLIENT ID   |                         |          |                         |          |                         |          |  |  |                |
| 01 ICAL 0.5 | 366396                  | 5.44     | 1300908                 | 7.36     | 629518                  | 10.93    |  |  | 0710_09.D      |
| 02 ICAL 2.5 | 368056                  | 5.44     | 1294060                 | 7.36     | 626581                  | 10.93    |  |  | 0710_10.D      |
| 03 ICAL 5   | 358515                  | 5.45     | 1255275                 | 7.37     | 604869                  | 10.93    |  |  | 0710_11.D      |
| 04 ICAL 25  | 347725                  | 5.45     | 1217072                 | 7.37     | 589512                  | 10.94    |  |  | 0710_12.D      |
| 05 ICAL 40  | 359125                  | 5.45     | 1243232                 | 7.37     | 593593                  | 10.94    |  |  | 0710_13.D      |
| 06 ICAL 1   | 365177                  | 5.44     | 1282474                 | 7.37     | 611724                  | 10.94    |  |  | 0710_15.D      |
| 07 ICAL 0.2 | 359594                  | 5.44     | 1257636                 | 7.37     | 614713                  | 10.94    |  |  | 0710_16.D      |
| 08 ICAL 10  | 352328                  | 5.45     | 1231387                 | 7.37     | 589436                  | 10.94    |  |  | 0710_17.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: \_\_\_\_\_

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCG31864

Lab Method / File Id: 24AIR\_0710\_wal.M / Average Date Analyzed: 07/11/20

Instrument ID: CHEM24 Time Analyzed: 2:38

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   | 358238                  | 5.44     | 1397185                 | 7.36     | 660523                  | 10.93    |  |  | Average        |
| UPPER LIMIT   | 503324                  | 5.77     | 1963045                 | 7.69     | 928034                  | 11.26    |  |  | Average        |
| LOWER LIMIT   | 213151                  | 5.11     | 831325                  | 7.03     | 393011                  | 10.60    |  |  | Average        |
|               |                         |          |                         |          |                         |          |  |  |                |
| CLIENT ID     |                         |          |                         |          |                         |          |  |  |                |
| 01 ICAL 0.02  | 362718                  | 5.44     | 1410710                 | 7.36     | 677788                  | 10.93    |  |  | 0710_05.D      |
| 02 ICAL 0.035 | 358658                  | 5.43     | 1422261                 | 7.36     | 670607                  | 10.92    |  |  | 0710_06.D      |
| 03 ICAL 0.05  | 367749                  | 5.44     | 1444651                 | 7.36     | 681078                  | 10.93    |  |  | 0710_07.D      |
| 04 ICAL 0.1   | 358317                  | 5.44     | 1391925                 | 7.36     | 660998                  | 10.93    |  |  | 0710_08.D      |
| 05 ICAL 0.5   | 360920                  | 5.44     | 1416032                 | 7.36     | 670735                  | 10.93    |  |  | 0710_09.D      |
| 06 ICAL 2.5   | 361292                  | 5.44     | 1409942                 | 7.36     | 665489                  | 10.93    |  |  | 0710_10.D      |
| 07 ICAL 5     | 353117                  | 5.46     | 1367872                 | 7.37     | 641805                  | 10.93    |  |  | 0710_11.D      |
| 08 ICAL 1     | 359321                  | 5.44     | 1398114                 | 7.36     | 656476                  | 10.93    |  |  | 0710_15.D      |
| 09 ICAL 0.2   | 353670                  | 5.44     | 1370616                 | 7.36     | 651565                  | 10.93    |  |  | 0710_16.D      |
| 10 ICAL 10    | 346614                  | 5.45     | 1339727                 | 7.37     | 628684                  | 10.93    |  |  | 0710_17.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: \_\_\_\_\_

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCG31864

Lab Method / File Id: 24AIR\_0710\_wal.M / 0712\_02.D Date Analyzed: 07/12/20

Instrument ID: CHEM24 Time Analyzed: 22:02

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               | 305372              | 5.44 | 1051592             | 7.36 | 501122              | 10.93 |  |  | 0712_02.D      |
| UPPER LIMIT               | 429048              | 5.77 | 1477487             | 7.69 | 704076              | 11.26 |  |  | 0712_02.D      |
| LOWER LIMIT               | 181696              | 5.11 | 625697              | 7.03 | 298168              | 10.60 |  |  | 0712_02.D      |
|                           |                     |      |                     |      |                     |       |  |  |                |
| CLIENT ID                 |                     |      |                     |      |                     |       |  |  |                |
| 01 CCAL 1                 | 305372              | 5.44 | 1051592             | 7.36 | 501122              | 10.93 |  |  | 0712_02.D      |
| 02 CG31864 LCS            | 304633              | 5.45 | 1064917             | 7.37 | 511521              | 10.94 |  |  | 0712_04.D      |
| 03 CG31864 LCSD           | 319257              | 5.44 | 1116059             | 7.36 | 540841              | 10.93 |  |  | 0712_05.D      |
| 04 CG31864 BLANK          | 338369              | 5.44 | 1166915             | 7.36 | 566885              | 10.93 |  |  | 0712_07.D      |
| 05 IA-3 (CALL CENTER)     | 306282              | 5.44 | 1081892             | 7.36 | 534495              | 10.93 |  |  | 0712_11.D      |
| 06 IA-3 (CALL CENTER) DUP | 307477              | 5.44 | 1065913             | 7.36 | 528703              | 10.93 |  |  | 0712_12.D      |
| 07                        |                     |      |                     |      |                     |       |  |  |                |
| 08                        |                     |      |                     |      |                     |       |  |  |                |
| 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: \_\_\_\_\_  
 Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCG31864  
 Lab Method / File Id: 24AIR\_0710\_wal.M / 0712\_02.D Date Analyzed: 07/12/20  
 Instrument ID: CHEM24 Time Analyzed: 22:02  
 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               | 298101              | 5.44 | 1051592             | 7.36 | 501122              | 10.93 |  |  | 0712_02.D      |
| UPPER LIMIT               | 418832              | 5.77 | 1477487             | 7.69 | 704076              | 11.26 |  |  | 0712_02.D      |
| LOWER LIMIT               | 177370              | 5.11 | 625697              | 7.03 | 298168              | 10.60 |  |  | 0712_02.D      |
|                           |                     |      |                     |      |                     |       |  |  |                |
| CLIENT ID                 |                     |      |                     |      |                     |       |  |  |                |
| 01 CCAL 1                 | 298101              | 5.44 | 1051592             | 7.36 | 501122              | 10.93 |  |  | 0712_02.D      |
| 02 CG31864 LCS            | 296800              | 5.45 | 1064917             | 7.37 | 511521              | 10.94 |  |  | 0712_04.D      |
| 03 CG31864 LCSD           | 311501              | 5.44 | 1116059             | 7.36 | 540841              | 10.93 |  |  | 0712_05.D      |
| 04 CG31864 BLANK          | 331056              | 5.44 | 1166915             | 7.36 | 566885              | 10.93 |  |  | 0712_07.D      |
| 05 IA-3 (CALL CENTER)     | 303711              | 5.44 | 1081892             | 7.36 | 534495              | 10.93 |  |  | 0712_11.D      |
| 06 IA-3 (CALL CENTER) DUP | 300588              | 5.44 | 1065913             | 7.36 | 528703              | 10.93 |  |  | 0712_12.D      |
| 07                        |                     |      |                     |      |                     |       |  |  |                |
| 08                        |                     |      |                     |      |                     |       |  |  |                |
| 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

IA-3 (CALL CENTER)

ppbv

CAS NO.

CONC.

Q

MDL

PQL

R

Data Path : H:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_11.D  
 Acq On : 13 Jul 2020 3:56 pm  
 Operator : Keith  
 Client ID : IA-3 (CALL CENTER)  
 Lab ID : CG31864  
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 13 15:29:57 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Tue Oct 13 15:26:45 2020  
 Response via : Initial Calibration

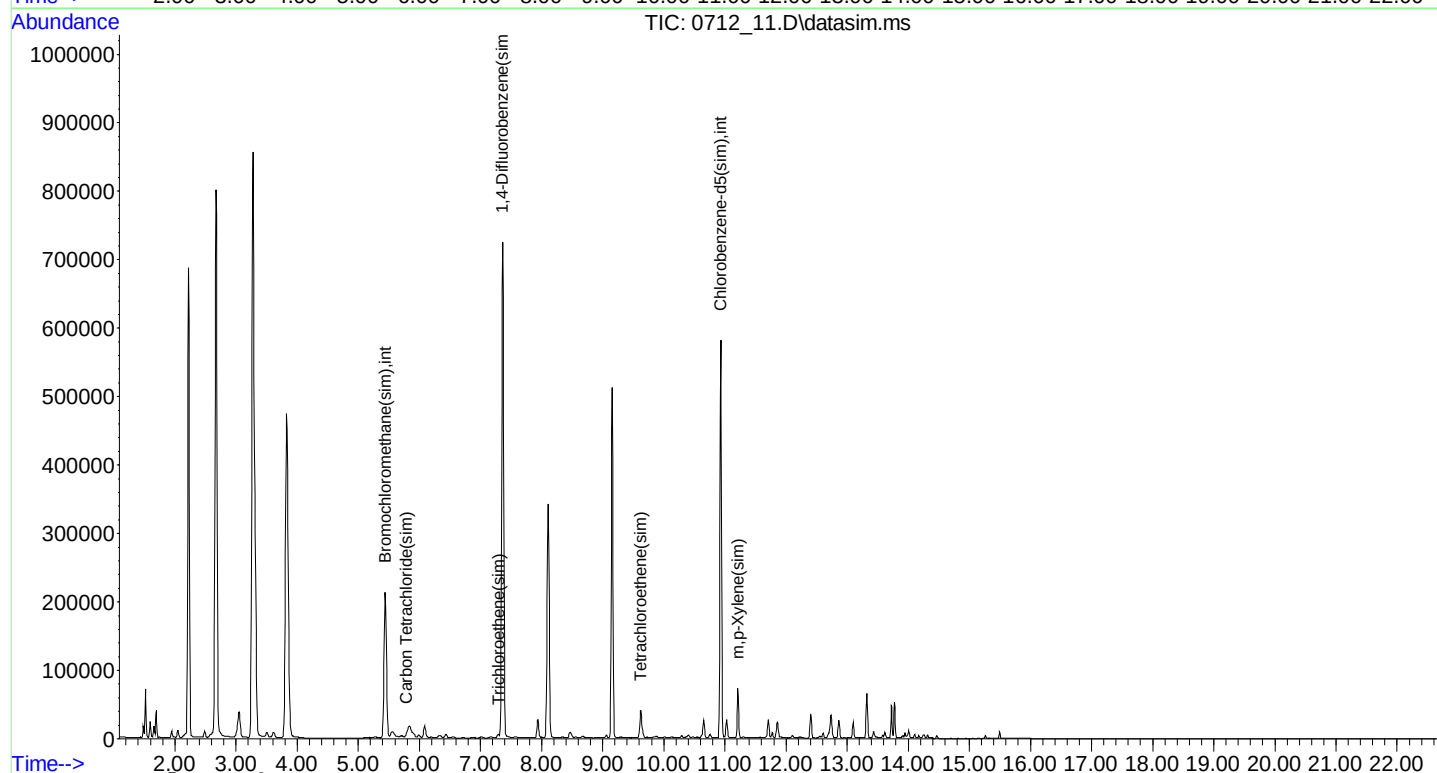
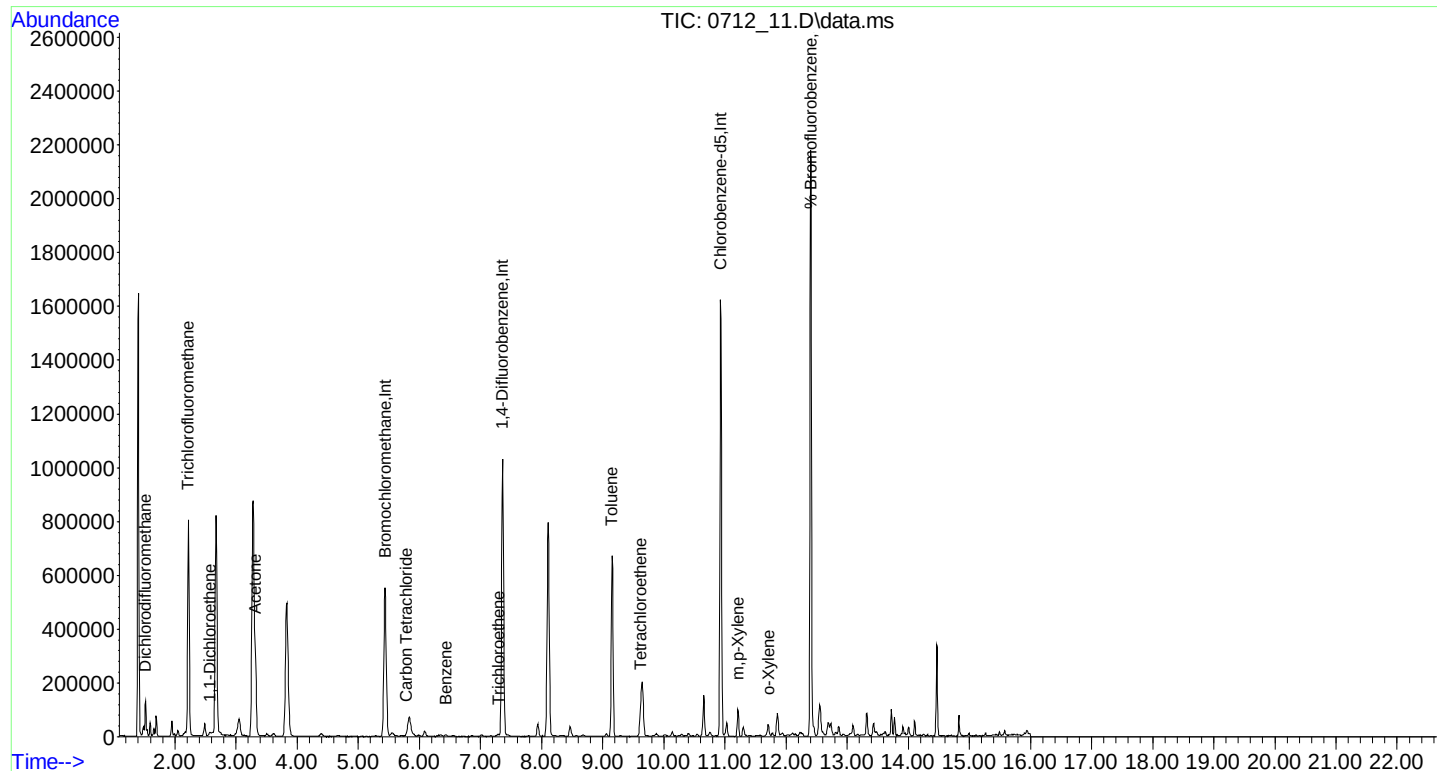
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|-------|-----------|
| Internal Standards            |        |       |          |          |       |           |
| 1) Bromochloromethane         | 5.439  | 130   | 306282   | 10.000   | ng    | 0.00      |
| 15) 1,4-Difluorobenzene       | 7.361  | 114   | 1081892  | 10.000   | ng    | 0.00      |
| 20) Chlorobenzene-d5          | 10.929 | 82    | 534495   | 10.000   | ng    | 0.00      |
| 30) Bromochloromethane(sim)   | 5.442  | 130   | 303711   | 10.000   | ng    | # 0.00    |
| 41) 1,4-Difluorobenzene(sim)  | 7.361  | 114   | 1081892  | 10.000   | ng    | 0.00      |
| 47) Chlorobenzene-d5(sim)     | 10.929 | 82    | 534495   | 10.000   | ng    | 0.00      |
| System Monitoring Compounds   |        |       |          |          |       |           |
| 25) % Bromofluorobenzene      | 12.402 | 95    | 752791   | 9.899    | ppbv  | 0.00      |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =     | 99.00%    |
| Target Compounds              |        |       |          |          |       |           |
| 2) Dichlorodifluoromethane    | 1.519  | 85    | 47460    | 0.884    | ppbv  | Qvalue 98 |
| 4) Acetone                    | 3.313  | 43    | 401224m  | 10.298   | ppbv  | 87        |
| 5) Trichlorofluoromethane     | 2.218  | 101   | 643746   | 8.985    | ppbv# | 84        |
| 6) 1,1-Dichloroethene         | 2.574  | 61    | 2269     | 0.065    | ppbv# | 22        |
| 13) Benzene                   | 6.436  | 78    | 8147     | 0.091    | ppbv  | 93        |
| 14) Carbon Tetrachloride      | 5.792  | 117   | 4759     | 0.080    | ppbv  | 91        |
| 17) Trichloroethene           | 7.292  | 130   | 3169     | 0.066    | ppbv  | 96        |
| 18) Toluene                   | 9.153  | 91    | 559273   | 4.774    | ppbv  | 98        |
| 19) Tetrachloroethene         | 9.622  | 166   | 22126    | 0.331    | ppbv  | 96        |
| 23) m,p-Xylene                | 11.210 | 91    | 62204    | 0.558    | ppbv  | 97        |
| 24) o-Xylene                  | 11.711 | 91    | 23657    | 0.196    | ppbv  | 94        |
| 34) Carbon Tetrachloride(sim) | 5.788  | 117   | 4666     | 0.081    | ppbv  | 99        |
| 44) Trichloroethene(sim)      | 7.295  | 130   | 3185     | 0.066    | ppbv  | 94        |
| 46) Tetrachloroethene(sim)    | 9.618  | 166   | 22243    | 0.337    | ppbv  | 97        |
| 48) m,p-Xylene(sim)           | 11.213 | 91    | 66951    | 0.574    | ppbv# | 96        |

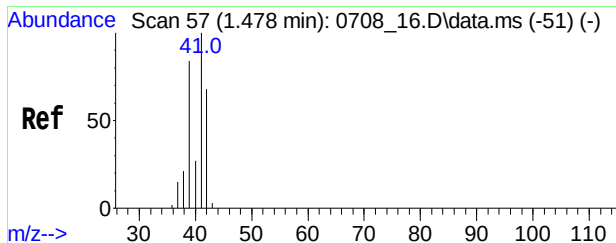
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_11.D  
 Acq On : 13 Jul 2020 3:56 pm  
 Operator : Keith  
 Client ID : IA-3 (CALL CENTER)  
 Lab ID : CG31864  
 ALS Vial : 142 Sample Multiplier: 1

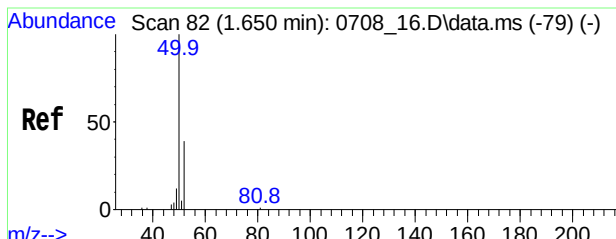
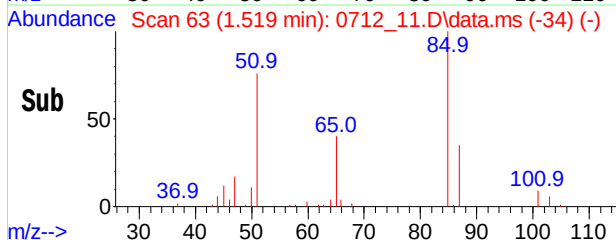
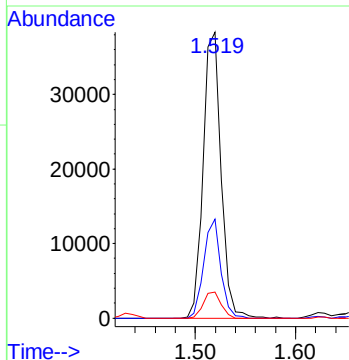
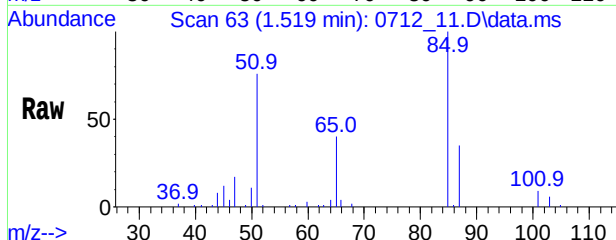
Quant Time: Oct 13 15:29:57 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Tue Oct 13 15:26:45 2020  
 Response via : Initial Calibration





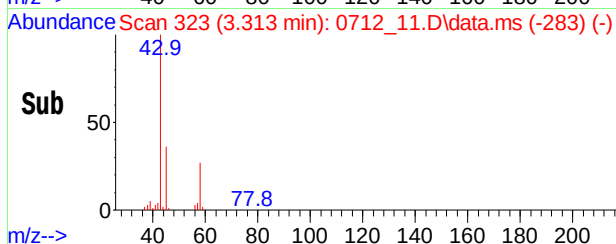
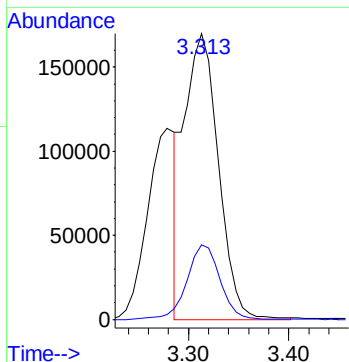
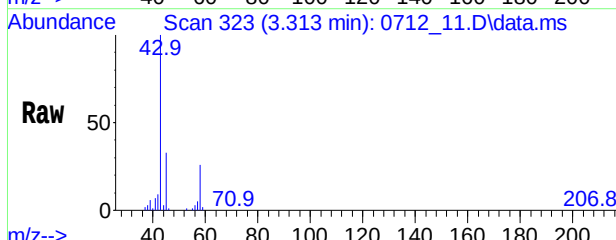
#2  
**Dichlorodifluoromethane**  
 Conc: 8\$ 0.884 ppbv  
 RT: 1.519 min Scan# 63  
 Delta R.T. 0.000 min  
 Lab File: 0712\_11.D  
 Acq: 13 Jul 2020 3:56 pm

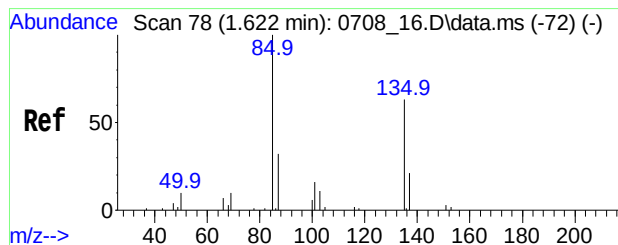
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 85      | 100   | 47460 |       |       |
| 87      | 32.9  | 25.0  |       | 37.6  |
| 101     | 9.1   | 7.4   |       | 11.0  |



#4  
**Acetone**  
 Conc: 8\$ 10.298 ppbv  
 RT: 3.313 min Scan# 323  
 Delta R.T. -0.027 min  
 Lab File: 0712\_11.D  
 Acq: 13 Jul 2020 3:56 pm

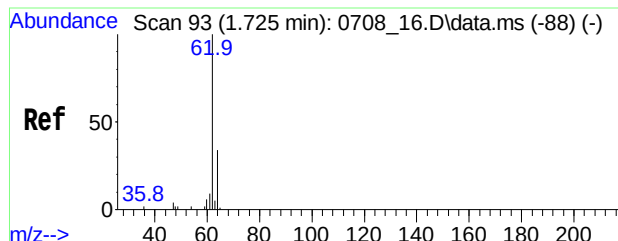
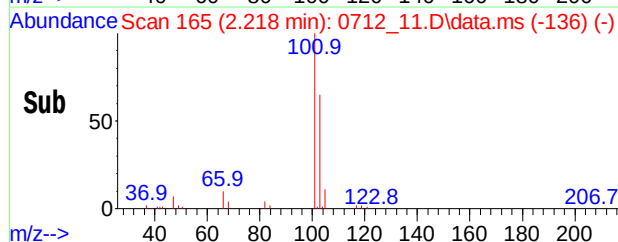
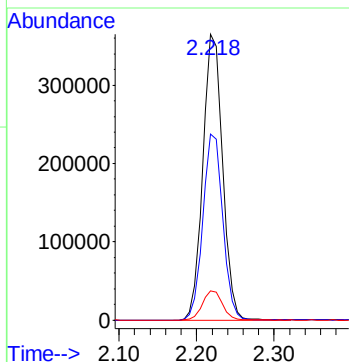
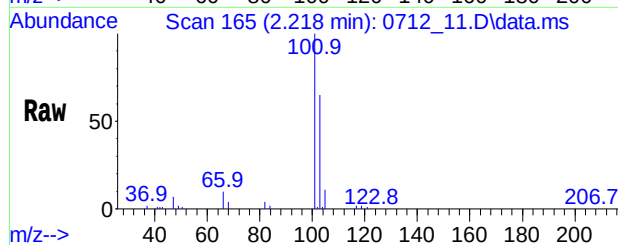
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 43      | 100   | 401224 |       |       |
| 58      | 25.4  | 17.9   |       | 26.9  |





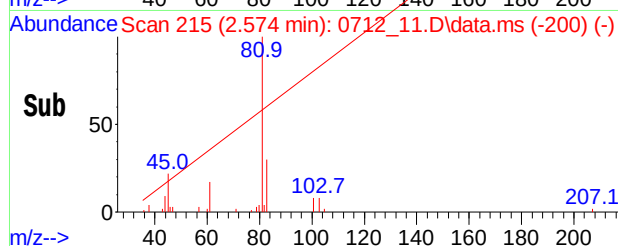
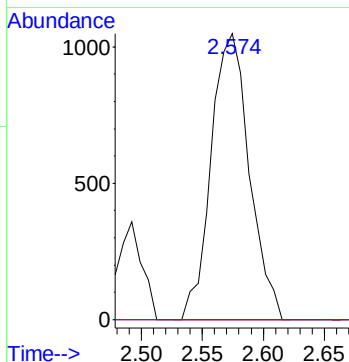
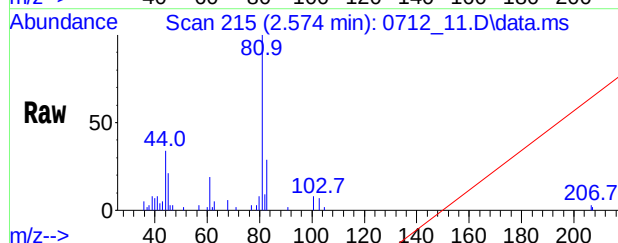
#5  
**Trichlorofluoromethane**  
 Conc: 8\$ 8.985 ppbv  
 RT: 2.218 min Scan# 165  
 Delta R.T. 0.000 min  
 Lab File: 0712\_11.D  
 Acq: 13 Jul 2020 3:56 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 643746 |       |       |
| 103     | 65.6  | 63.2   | 94.8  |       |
| 66      | 10.4  | 14.3   | 21.5# |       |

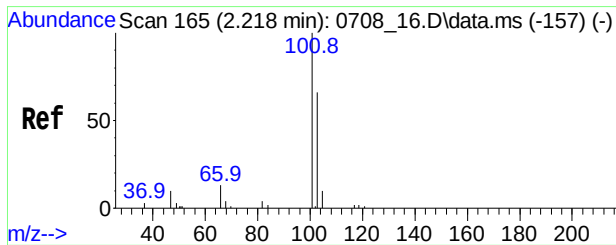


#6  
**1,1-Dichloroethene**  
 Conc: 8\$ Below Cal  
 RT: 2.574 min Scan# 215  
 Delta R.T. -0.096 min  
 Lab File: 0712\_11.D  
 Acq: 13 Jul 2020 3:56 pm

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 61      | 100   | 2269 |       |       |
| 96      | 0.0   | 53.5 | 80.3# |       |
| 98      | 0.0   | 38.2 | 57.4# |       |

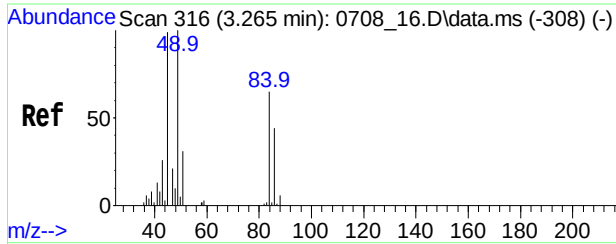
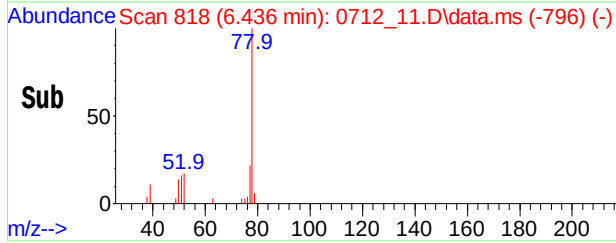
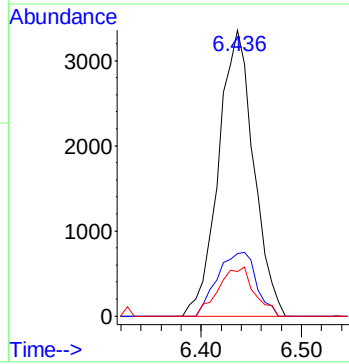
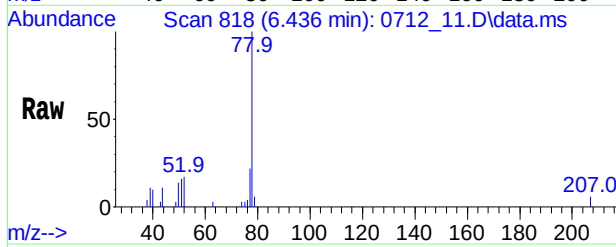






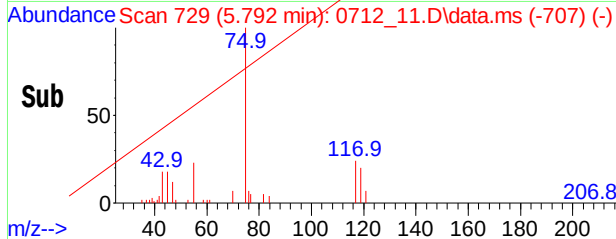
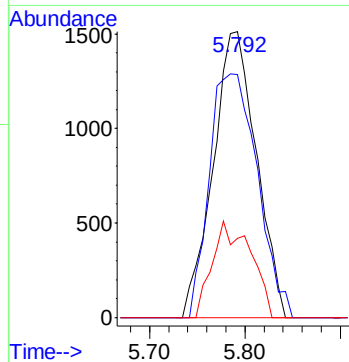
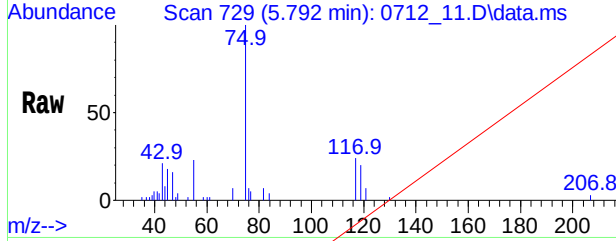
#13  
Benzene  
Conc: 8\$ 0.091 ppbv  
RT: 6.436 min Scan# 818  
Delta R.T. 0.000 min  
Lab File: 0712\_11.D  
Acq: 13 Jul 2020 3:56 pm

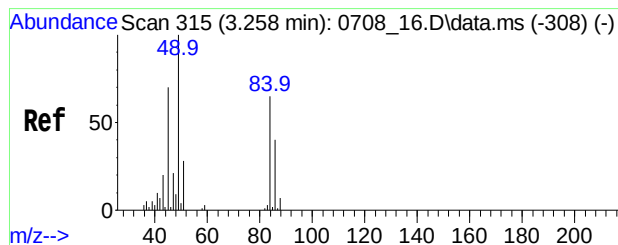
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 78      | 100   | 8147 |       |       |
| 77      | 24.7  | 22.7 | 34.1  |       |
| 51      | 17.4  | 16.3 | 24.5  |       |



#14  
~~Carbon Tetrachloride~~  
Conc: 8\$ ~~Below Cal~~  
RT: 5.792 min Scan# 729  
Delta R.T. 0.007 min  
Lab File: 0712\_11.D  
Acq: 13 Jul 2020 3:56 pm

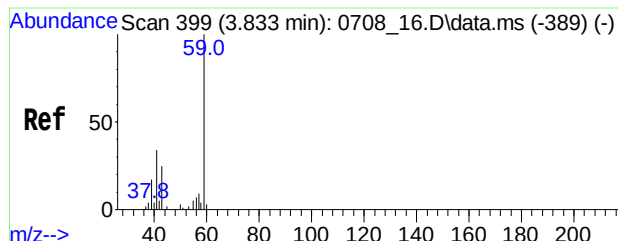
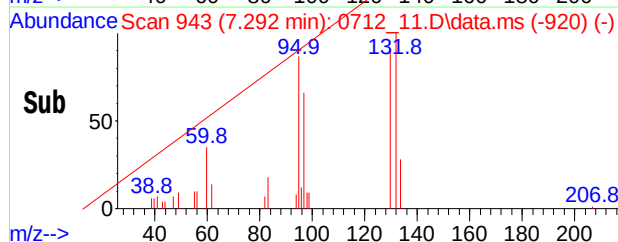
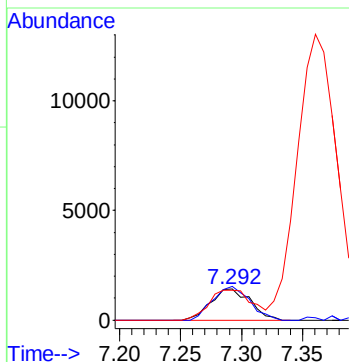
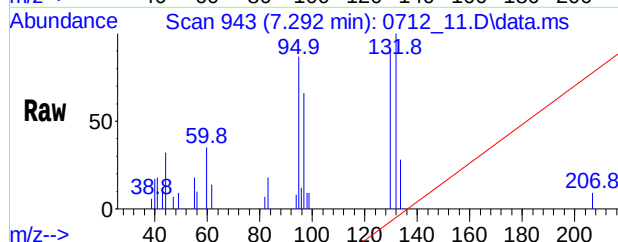
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 4759 |       |       |
| 119     | 94.5  | 86.2 | 126.2 |       |
| 121     | 30.0  | 10.7 | 50.7  |       |





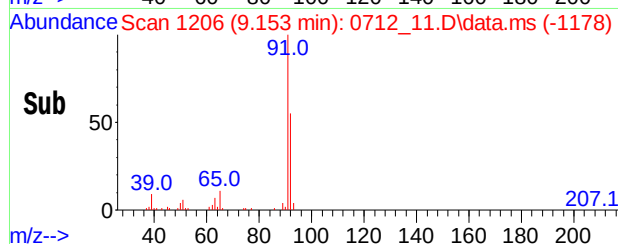
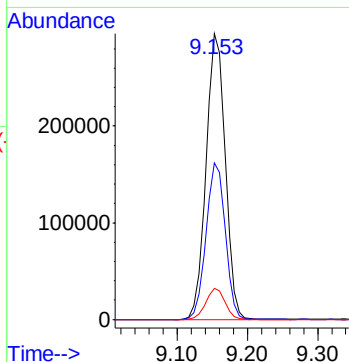
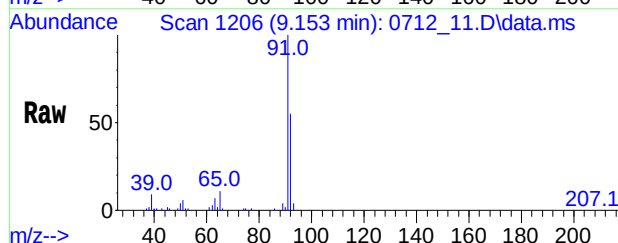
#17  
 Trichloroethene  
 Conc: 8\$ Below Cal  
 RT: 7.292 min Scan# 943  
 Delta R.T. 0.007 min  
 Lab File: 0712\_11.D  
 Acq: 13 Jul 2020 3:56 pm

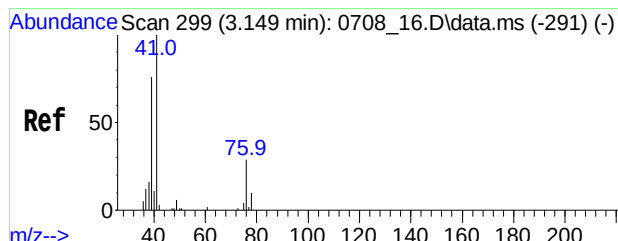
| Tgt Ion | Ratio | Resp | Upper |
|---------|-------|------|-------|
| 130     | 100   | 3169 |       |
| 132     | 101.4 | 76.2 | 114.2 |
| 95      | 106.2 | 86.2 | 129.2 |



#18  
 Toluene  
 Conc: 8\$ 4.774 ppbv  
 RT: 9.153 min Scan# 1206  
 Delta R.T. -0.000 min  
 Lab File: 0712\_11.D  
 Acq: 13 Jul 2020 3:56 pm

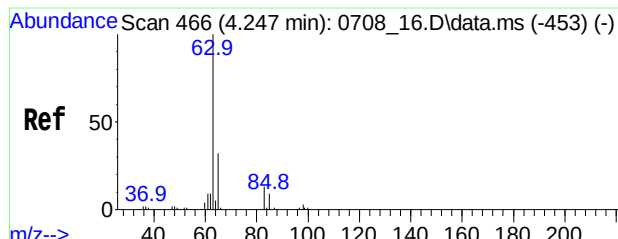
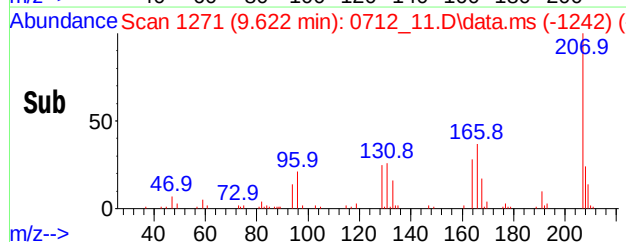
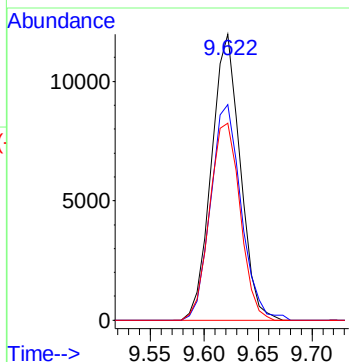
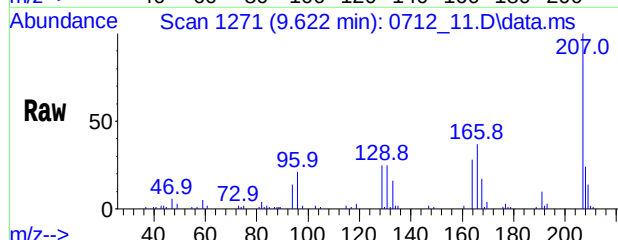
| Tgt Ion | Ratio | Resp   | Upper |
|---------|-------|--------|-------|
| 91      | 100   | 559273 |       |
| 92      | 54.9  | 43.4   | 65.0  |
| 65      | 10.7  | 10.2   | 15.2  |





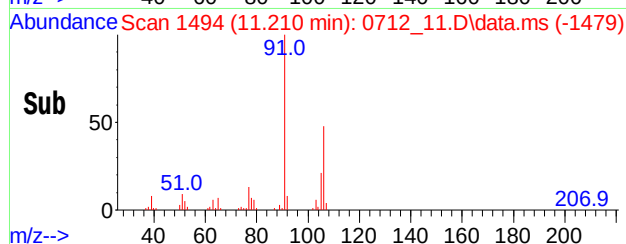
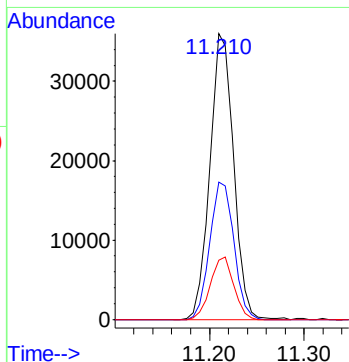
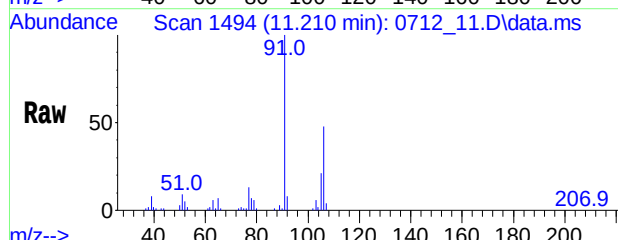
#19  
Tetrachloroethene  
Conc: 8\$ 0.331 ppbv  
RT: 9.622 min Scan# 1271  
Delta R.T. 0.007 min  
Lab File: 0712\_11.D  
Acq: 13 Jul 2020 3:56 pm

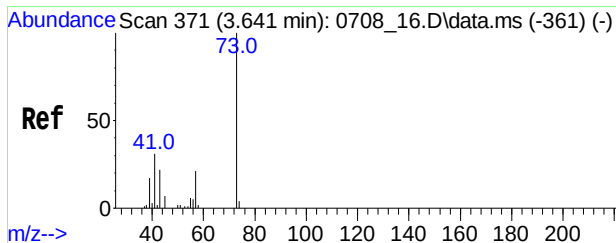
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 22126 |       |       |
| 164     | 79.9  | 61.5  | 92.3  |       |
| 129     | 73.0  | 61.7  | 92.5  |       |



#23  
m,p-Xylene  
Conc: 8\$ 0.558 ppbv  
RT: 11.210 min Scan# 1494  
Delta R.T. -0.000 min  
Lab File: 0712\_11.D  
Acq: 13 Jul 2020 3:56 pm

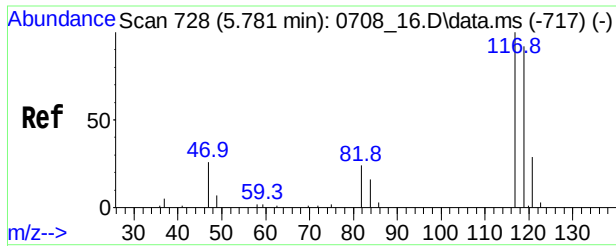
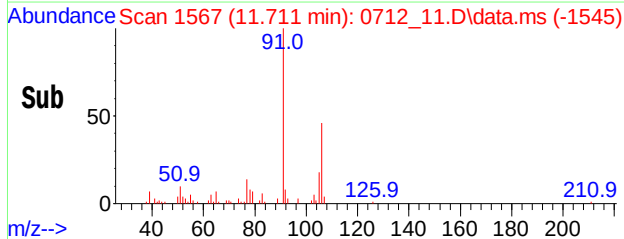
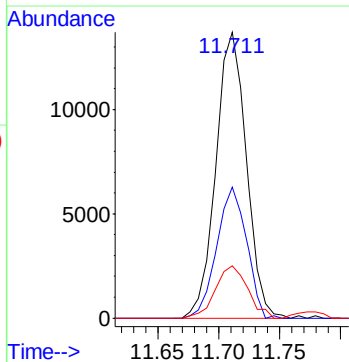
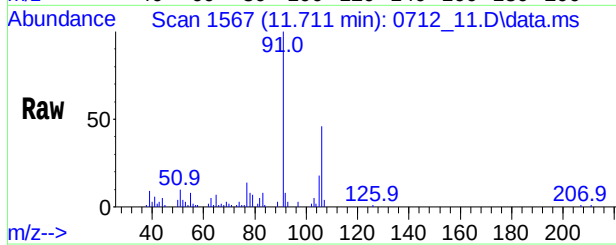
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 62204 |       |       |
| 106     | 49.0  | 40.0  | 60.0  |       |
| 105     | 21.6  | 19.9  | 29.9  |       |





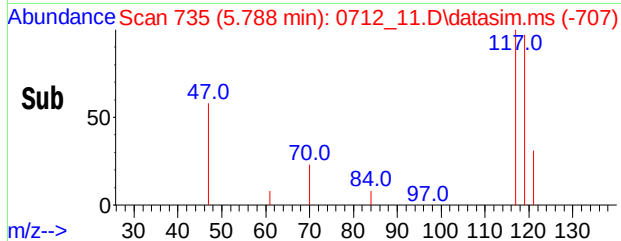
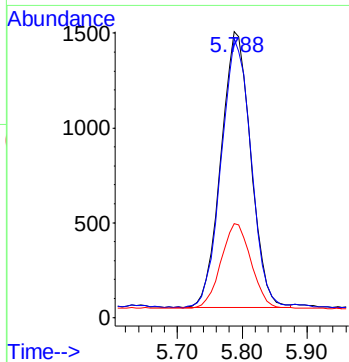
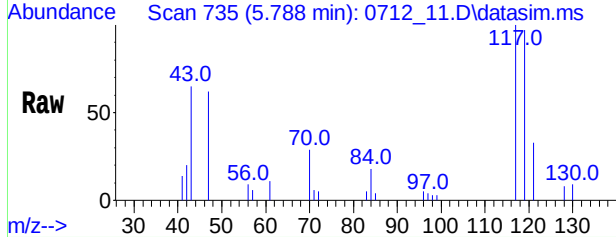
#24  
o-Xylene  
Conc: 8\$ 0.196 ppbv  
RT: 11.711 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: 0712\_11.D  
Acq: 13 Jul 2020 3:56 pm

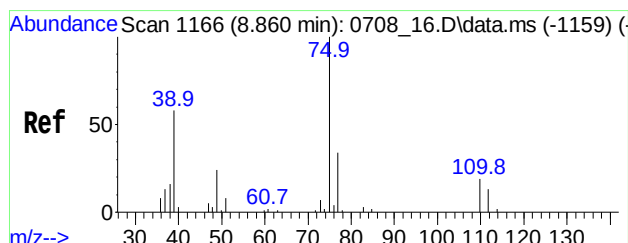
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 23657 |       |       |
| 106     | 44.9  | 39.0  | 58.6  |       |
| 105     | 19.4  | 18.1  | 27.1  |       |



#34  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.081 ppbv  
RT: 5.788 min Scan# 735  
Delta R.T. -0.000 min  
Lab File: 0712\_11.D  
Acq: 13 Jul 2020 3:56 pm

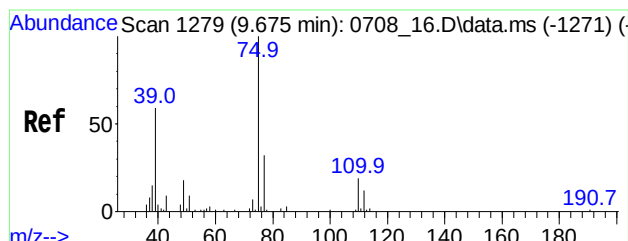
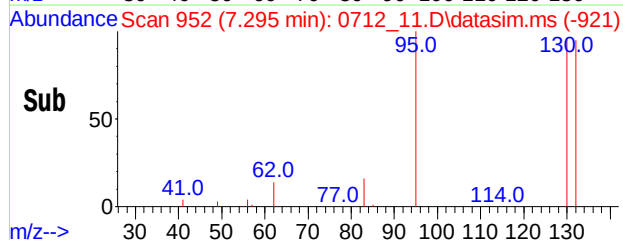
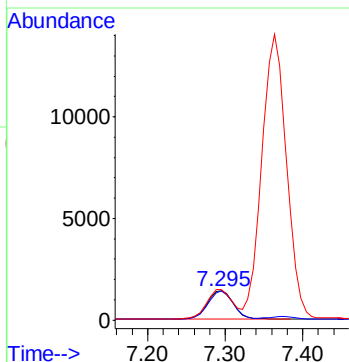
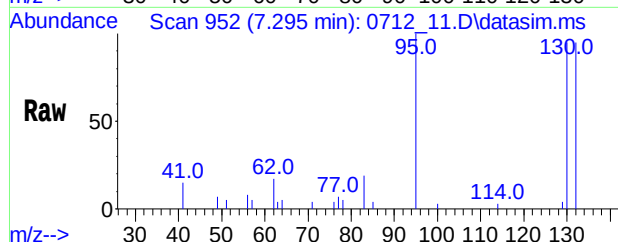
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 4666 |       |       |
| 119     | 98.0  | 77.8 | 116.8 |       |
| 121     | 31.4  | 25.2 | 37.8  |       |





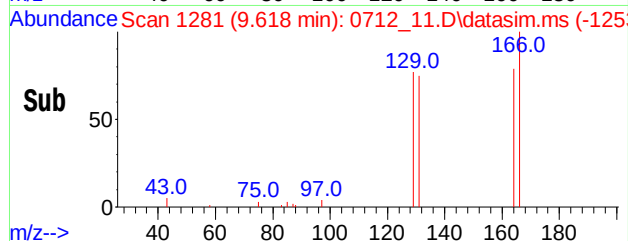
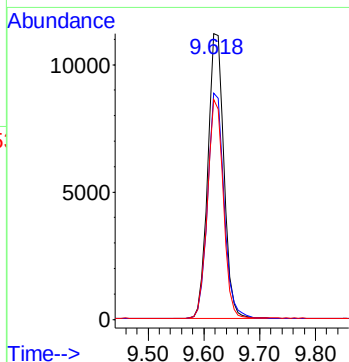
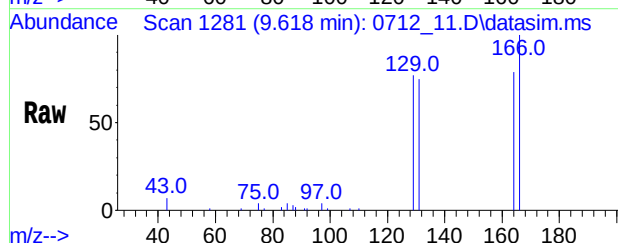
#44  
 Trichloroethene(sim)  
 Conc: 8\$ 0.066 ppbv  
 RT: 7.295 min Scan# 952  
 Delta R.T. 0.010 min  
 Lab File: 0712\_11.D  
 Acq: 13 Jul 2020 3:56 pm

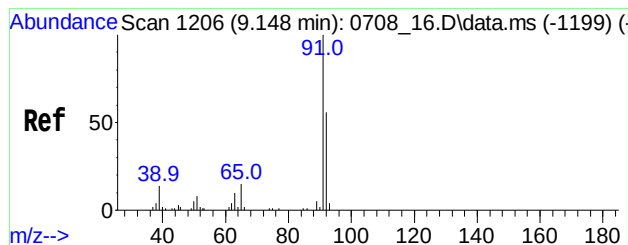
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 130     | 100   | 3185 |       |       |
| 132     | 97.1  | 80.7 | 121.1 |       |
| 95      | 106.2 | 91.4 | 137.0 |       |



#46  
 Tetrachloroethene(sim)  
 Conc: 8\$ 0.337 ppbv  
 RT: 9.618 min Scan# 1281  
 Delta R.T. 0.003 min  
 Lab File: 0712\_11.D  
 Acq: 13 Jul 2020 3:56 pm

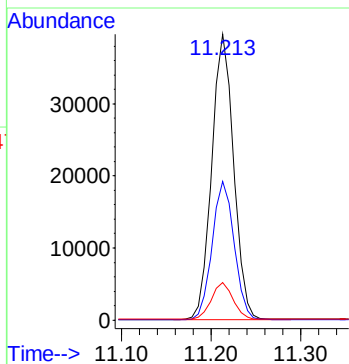
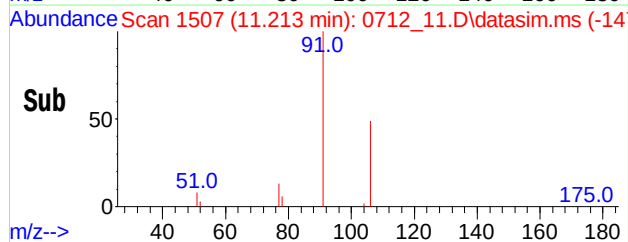
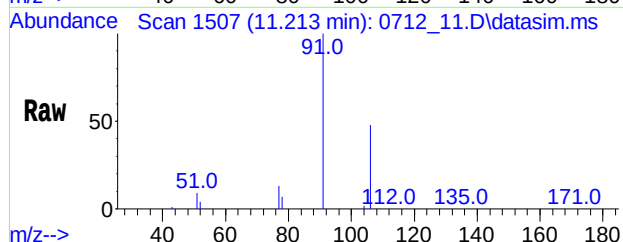
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 22243 |       |       |
| 164     | 80.7  | 56.8  | 96.8  |       |
| 129     | 75.7  | 57.1  | 97.1  |       |





#48  
 m,p-Xylene(sim)  
 Conc: 8\$ 0.574 ppbv  
 RT: 11.213 min Scan# 1507  
 Delta R.T. 0.003 min  
 Lab File: 0712\_11.D  
 Acq: 13 Jul 2020 3:56 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 66951 |       |       |
| 106     | 48.7  | 45.0  | 55.0  |       |
| 77      | 12.7  | 13.2  | 19.8  |       |



## Response Factor Report Chem24

Method Path : H:\AIR2020\CHEM24\METHODS\  
 Method File : 24AIR\_0710\_wal.M  
 Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 10:21:18 2020  
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)

.035=0710\_06.D 0.05=0710\_07.D 0.1=0710\_08.D 0.2=0710\_16.D 0.5=0710\_09.D 1.0=0710\_15.D 2.5=0710\_10.D 5.0=0710\_11.D  
 10=0710\_17.D 25=0710\_12.D 40=0710\_13.D 0.02=0710\_05.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) Dichlorodifluo...          |                |       |       | 1.996 | 1.682 | 1.984 | 1.615 | 2.057 | 1.852 | 1.523 | 1.307 |       | 1.752 | 15.10 |
| 3) Vinyl Chloride             |                | 0.899 | 0.863 | 0.849 | 0.841 | 0.804 | 0.854 | 0.815 | 0.772 | 0.732 |       |       | 0.826 | 6.15  |
| 4) Acetone                    |                |       | 1.794 | 1.585 | 1.210 | 1.176 | 0.880 | 1.099 | 1.240 | 1.191 |       |       | 1.272 | 22.52 |
| 5) Trichlorofluor...          |                | 2.583 | 2.499 | 2.475 | 2.418 | 2.325 | 2.171 | 2.311 | 2.186 | 2.087 |       |       | 2.339 | 7.19  |
| 6) 1,1-Dichloroet...          |                |       | 1.297 | 1.225 | 1.219 | 1.137 | 1.027 | 1.124 | 1.092 | 1.021 |       |       | 1.143 | 8.58  |
| 7) Methylene Chlo...          |                |       | 1.298 | 1.111 | 1.007 | 0.959 | 0.624 | 0.921 | 0.885 | 0.829 |       |       | 0.954 | 20.82 |
| 8) Trichlorotrifl...          |                |       | 1.896 | 1.814 | 1.754 | 1.682 | 1.477 | 1.674 | 1.597 | 1.525 |       |       | 1.677 | 8.50  |
| 10) Cis-1,2-Dichlo...         |                | 1.385 | 1.309 | 1.323 | 1.273 | 1.231 | 1.308 | 1.259 | 1.245 | 1.208 |       |       | 1.282 | 4.25  |
| 12) 1,1,1-Trichlor...         |                | 2.370 | 2.184 | 2.085 | 2.039 | 1.968 | 2.064 | 2.026 | 1.989 | 1.917 |       |       | 2.071 | 6.53  |
| 13) Benzene                   |                | 3.551 | 3.173 | 3.042 | 2.871 | 2.717 | 2.863 | 2.713 | 2.693 | 2.585 |       |       | 2.912 | 10.37 |
| 14) Carbon Tetrach...         |                | 1.848 | 2.039 | 1.772 | 1.960 | 1.778 | 1.934 | 2.069 | 2.079 | 2.066 |       |       | 1.949 | 6.39  |
| 15) Int 1,4-Difluorobenzene   | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 17) Trichloroethene           |                | 0.473 | 0.475 | 0.464 | 0.438 | 0.426 | 0.450 | 0.438 | 0.428 | 0.413 |       |       | 0.445 | 4.94  |
| 18) Toluene                   |                | 1.238 | 1.156 | 1.118 | 1.059 | 1.044 | 1.093 | 1.061 | 1.017 | 0.959 |       |       | 1.083 | 7.51  |
| 19) Tetrachloroethene         |                | 0.673 | 0.665 | 0.642 | 0.617 | 0.599 | 0.632 | 0.607 | 0.579 | 0.546 |       |       | 0.618 | 6.55  |
| 20) Int Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 21) Chlorobenzene             |                | 1.993 | 1.849 | 1.856 | 1.786 | 1.762 | 1.817 | 1.784 | 1.741 | 1.659 |       |       | 1.805 | 5.12  |
| 22) Ethylbenzene              |                | 3.020 | 2.961 | 2.883 | 2.724 | 2.688 | 2.753 | 2.624 | 2.346 | 2.095 |       |       | 2.677 | 11.04 |
| 23) m,p-Xylene                |                | 2.402 | 2.351 | 2.283 | 1.767 | 2.095 | 2.183 | 2.059 | 1.906 | 1.720 |       |       | 2.085 | 11.84 |
| 24) o-Xylene                  |                |       | 2.473 | 2.351 | 2.278 | 2.178 | 2.285 | 2.242 | 2.204 | 2.087 |       |       | 2.262 | 5.14  |
| 25) Surr% Bromofluorob...     |                | 1.381 | 1.395 | 1.388 | 1.417 | 1.403 | 1.421 | 1.446 | 1.455 | 1.500 |       |       | 1.423 | 2.69  |
| 26) 1,3-Dichlorobe...         |                | 1.719 | 1.692 | 1.644 | 1.617 | 1.561 | 1.568 | 1.523 | 1.381 | 1.262 |       |       | 1.552 | 9.52  |
| 27) 1,4-Dichlorobe...         |                | 1.693 | 1.682 | 1.570 | 1.571 | 1.491 | 1.523 | 1.513 | 1.448 | 1.373 |       |       | 1.540 | 6.70  |
| 28) 1,2-Dichlorobe...         |                | 1.286 | 1.318 | 1.216 | 1.197 | 1.164 | 1.167 | 1.150 | 1.111 | 1.045 |       |       | 1.184 | 7.06  |
| 29) 1,2,4-Trichlor...         |                |       | 0.997 | 0.806 | 0.915 | 0.759 | 0.714 | 0.795 | 0.719 |       |       |       | 0.815 | 12.89 |
| 30) int Bromochloromethane... | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 31) Vinyl Chloride...         | 1.038          | 0.991 | 0.968 | 0.946 | 0.935 | 0.901 | 0.869 | 0.905 |       |       |       |       | 0.944 | 5.75  |
| 34) Carbon Tetrach...         | 1.816          | 1.798 | 1.798 | 2.082 | 1.806 | 2.021 | 1.837 | 1.997 |       |       |       | 1.898 | 1.895 | 5.82  |
| 35) 1,1-Dichloroet...         | 1.482          | 1.458 | 1.326 | 1.318 | 1.243 | 1.238 | 1.158 | 1.043 |       |       |       | 1.701 | 1.330 | 14.69 |
| 39) Cis-1,2-Dichlo...         | 1.443          | 1.467 | 1.396 | 1.331 | 1.343 | 1.294 | 1.254 | 1.328 |       |       |       | 1.712 | 1.396 | 9.79  |
| 41) int 1,4-Difluorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 44) Trichloroethen...         | 0.498          | 0.457 | 0.410 | 0.436 | 0.426 | 0.402 | 0.390 | 0.413 |       |       |       | 0.598 | 0.448 | 14.57 |
| 46) Tetrachloroeth...         | 0.644          | 0.621 | 0.618 | 0.606 | 0.589 | 0.565 | 0.549 | 0.580 | 0.557 |       |       | 0.778 | 0.611 | 10.83 |
| 47) int Chlorobenzene-d5(sim) | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 48) m,p-Xylene(sim)           | 2.421          | 2.337 | 2.260 | 2.218 | 2.143 | 2.058 | 1.974 | 2.058 |       |       |       |       | 2.184 | 7.01  |
| 50) 1,4-Dichlorobe...         | 1.627          | 1.551 | 1.593 | 1.573 | 1.474 | 1.464 | 1.407 | 1.435 |       |       |       |       | 1.515 | 5.33  |

# Response Factor Report Chem24

Method Path : H:\AIR2020\CHEM24\METHODS\  
Method File : 24AIR\_0710\_wal.M  
Title : VOA Standards for 5 point calibration

-----  
(#,\$,@)=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: \_\_\_\_\_  
SDG No.: GCG31864  
Calibration Date From: 07/10/20 22:23  
Calibration Date Thru: 07/11/20 03:45  
Method File: 24AIR\_0710\_wal.M

Laboratory File Ids

| RRF1                      | 0710_05.D    | RRF2          | 0710_06.D    | RRF3        | 0710_07.D   | RRF4        | 0710_08.D | RRF5        | 0710_16.D | RRF6        | 0710_09.D   |             |          |          |  |
|---------------------------|--------------|---------------|--------------|-------------|-------------|-------------|-----------|-------------|-----------|-------------|-------------|-------------|----------|----------|--|
| RRF7                      | 0710_15.D    | RRF8          | 0710_10.D    | RRF9        | 0710_11.D   | RRF10       | 0710_17.D | RRF11       | 0710_12.D | RRF12       | 0710_13.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 |  |
| Dichlorodifluoromethane   |              |               |              |             | 1.996       | 1.682       | 1.984     | 1.615       | 2.057     | 1.852       | 1.523       | 1.307       | 1.752    | 15.10    |  |
| Vinyl Chloride            |              |               |              | 0.899       | 0.863       | 0.849       | 0.841     | 0.804       | 0.854     | 0.815       | 0.772       | 0.732       | 0.826    | 6.15     |  |
| Acetone                   |              |               |              |             | 1.794       | 1.585       | 1.210     | 1.176       | 0.880     | 1.099       | 1.240       | 1.191       | 1.272    | 22.52    |  |
| Trichlorofluoromethane    |              |               |              | 2.583       | 2.499       | 2.475       | 2.418     | 2.325       | 2.171     | 2.311       | 2.186       | 2.087       | 2.339    | 7.19     |  |
| 1,1-Dichloroethene        |              |               |              |             | 1.297       | 1.225       | 1.219     | 1.137       | 1.027     | 1.124       | 1.092       | 1.021       | 1.143    | 8.58     |  |
| Methylene Chloride        |              |               |              |             | 1.298       | 1.111       | 1.007     | 0.959       | 0.624     | 0.921       | 0.885       | 0.829       | 0.954    | 20.82    |  |
| Trichlorotrifluoroethane  |              |               |              |             | 1.896       | 1.814       | 1.754     | 1.682       | 1.477     | 1.674       | 1.597       | 1.525       | 1.677    | 8.50     |  |
| Cis-1,2-Dichloroethene    |              |               |              | 1.385       | 1.309       | 1.323       | 1.273     | 1.231       | 1.308     | 1.259       | 1.245       | 1.208       | 1.282    | 4.25     |  |
| 1,1,1-Trichloroethane     |              |               |              | 2.370       | 2.184       | 2.085       | 2.039     | 1.968       | 2.064     | 2.026       | 1.989       | 1.917       | 2.071    | 6.53     |  |
| Benzene                   |              |               |              | 3.551       | 3.173       | 3.042       | 2.871     | 2.717       | 2.863     | 2.713       | 2.693       | 2.585       | 2.912    | 10.37    |  |
| Carbon Tetrachloride      |              |               |              | 1.848       | 2.039       | 1.772       | 1.960     | 1.778       | 1.934     | 2.069       | 2.079       | 2.066       | 1.949    | 6.39     |  |
| Trichloroethene           |              |               |              | 0.473       | 0.475       | 0.464       | 0.438     | 0.426       | 0.450     | 0.438       | 0.428       | 0.413       | 0.445    | 4.94     |  |
| Toluene                   |              |               |              | 1.238       | 1.156       | 1.118       | 1.059     | 1.044       | 1.093     | 1.061       | 1.017       | 0.959       | 1.083    | 7.51     |  |
| Tetrachloroethene         |              |               |              | 0.673       | 0.665       | 0.642       | 0.617     | 0.599       | 0.632     | 0.607       | 0.579       | 0.546       | 0.618    | 6.55     |  |
| Chlorobenzene             |              |               |              | 1.993       | 1.849       | 1.856       | 1.786     | 1.762       | 1.817     | 1.784       | 1.741       | 1.659       | 1.805    | 5.12     |  |
| Ethylbenzene              |              |               |              | 3.020       | 2.961       | 2.883       | 2.724     | 2.688       | 2.753     | 2.624       | 2.346       | 2.095       | 2.677    | 11.04    |  |
| m,p-Xylene                |              |               |              | 2.402       | 2.351       | 2.283       | 1.767     | 2.095       | 2.183     | 2.059       | 1.906       | 1.720       | 2.085    | 11.84    |  |
| o-Xylene                  |              |               |              |             | 2.473       | 2.351       | 2.278     | 2.178       | 2.285     | 2.242       | 2.204       | 2.087       | 2.262    | 5.14     |  |
| 1,3-Dichlorobenzene       |              |               |              | 1.719       | 1.692       | 1.644       | 1.617     | 1.561       | 1.568     | 1.523       | 1.381       | 1.262       | 1.552    | 9.52     |  |
| 1,4-Dichlorobenzene       |              |               |              | 1.693       | 1.682       | 1.570       | 1.571     | 1.491       | 1.523     | 1.513       | 1.448       | 1.373       | 1.540    | 6.70     |  |
| 1,2-Dichlorobenzene       |              |               |              | 1.286       | 1.318       | 1.216       | 1.197     | 1.164       | 1.167     | 1.150       | 1.111       | 1.045       | 1.184    | 7.06     |  |
| 1,2,4-Trichlorobenzene    |              |               |              |             | 0.997       | 0.806       | 0.915     | 0.759       | 0.714     | 0.795       | 0.719       |             | 0.815    | 12.89    |  |
| Vinyl Chloride(sim)       |              | 1.038         | 0.991        | 0.968       | 0.946       | 0.935       | 0.901     | 0.869       | 0.905     |             |             |             | 0.944    | 5.75     |  |
| Carbon Tetrachloride(sim) | 1.898        | 1.816         | 1.798        | 1.798       | 2.082       | 1.806       | 2.021     | 1.837       | 1.997     |             |             |             | 1.895    | 5.82     |  |
| 1,1-Dichloroethene(sim)   | 1.701        | 1.482         | 1.458        | 1.326       | 1.318       | 1.243       | 1.238     | 1.158       | 1.043     |             |             |             | 1.330    | 14.69    |  |

(#) 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

Client:

SDG No.: GCG31864

Calibration Date From: 07/10/20 22:23

Calibration Date Thru: 07/11/20 03:45

Method File: 24AIR 0710 wal.M

|      |                  |      |                  |      |                  |       |                  |       |                  |       |                  |
|------|------------------|------|------------------|------|------------------|-------|------------------|-------|------------------|-------|------------------|
| RRF1 | <u>0710_05.D</u> | RRF2 | <u>0710_06.D</u> | RRF3 | <u>0710_07.D</u> | RRF4  | <u>0710_08.D</u> | RRF5  | <u>0710_16.D</u> | RRF6  | <u>0710_09.D</u> |
| RRF7 | <u>0710_15.D</u> | RRF8 | <u>0710_10.D</u> | RRF9 | <u>0710_11.D</u> | RRF10 | <u>0710_17.D</u> | RRF11 | <u>0710_12.D</u> | RRF12 | <u>0710_13.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.

## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_05.D  
 Acq On : 10 Jul 2020 8:09 pm  
 Operator : Keith  
 Client ID : ICAL 0.02  
 Lab ID : 0.02  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 13 10:09:31 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 10:07:42 2020  
 Response via : Initial Calibration

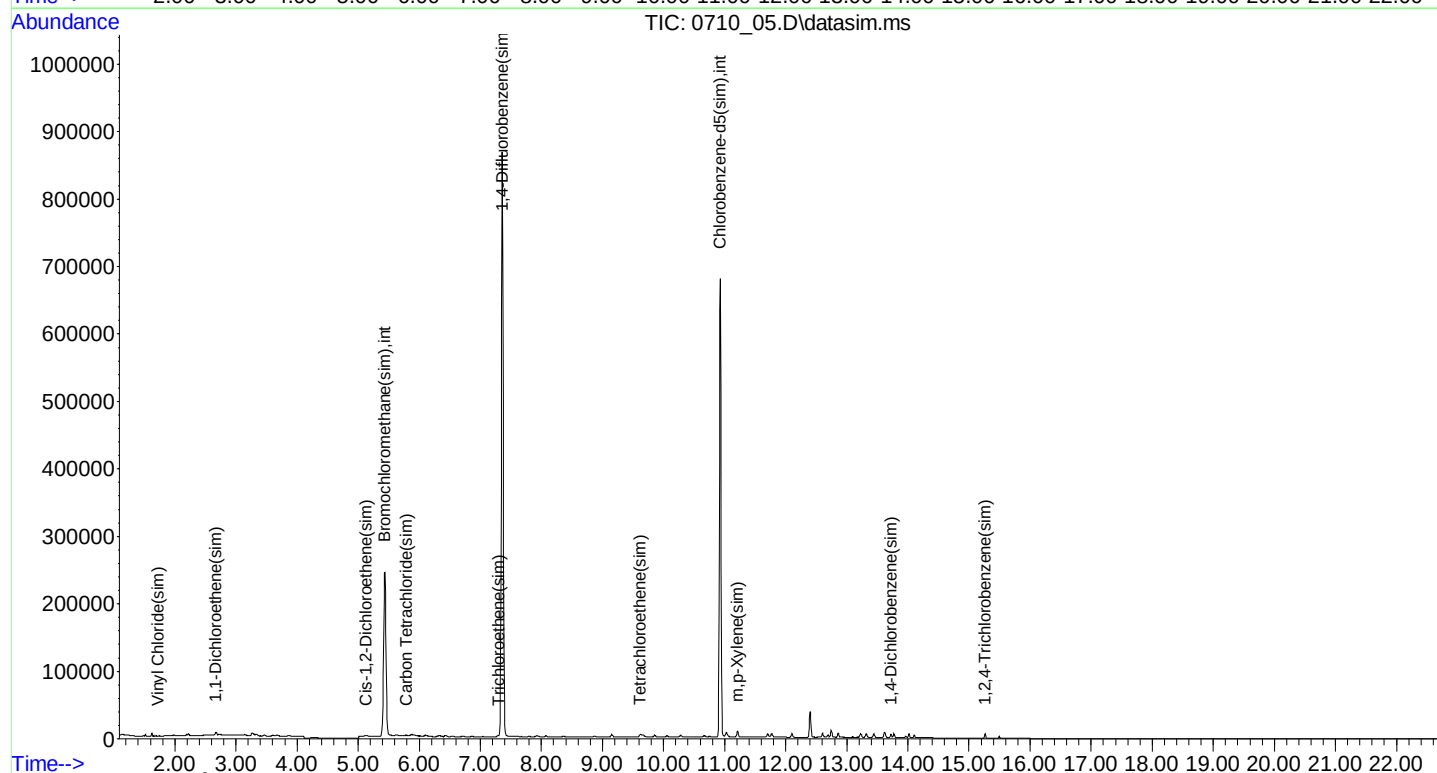
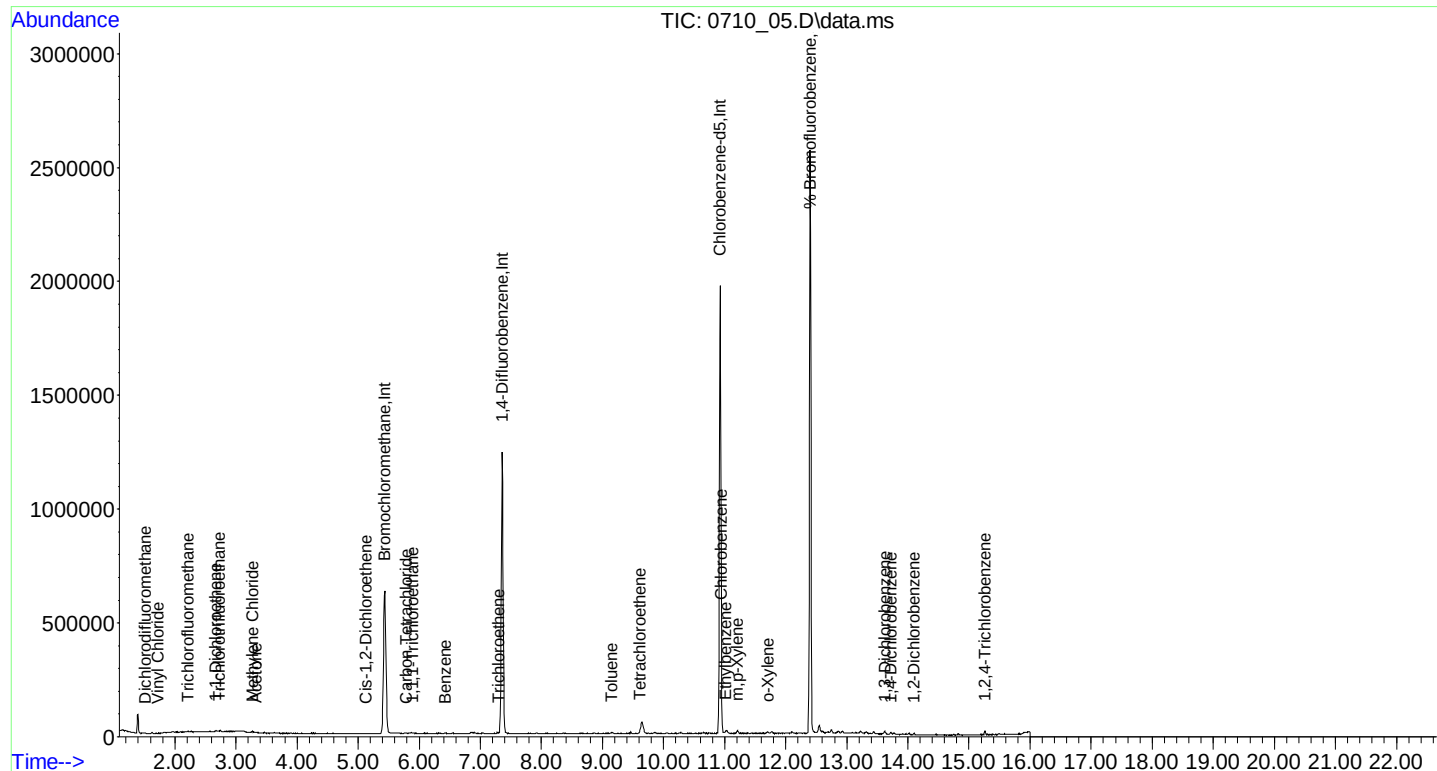
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 5.437  | 130   | 366821   | 10.000   | ng     | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.359  | 114   | 1301203  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.927 | 82    | 629861   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 5.439  | 130   | 362718   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)   | 7.362  | 114   | 1410710  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.930 | 82    | 677788   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 62) % Bromofluorobenzene       | 12.400 | 95    | 879214   | 9.775    | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =      | 97.80%   |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane     | 1.513  | 85    | 2246     | 0.035    | ppbv#  | 93       |
| 6) Vinyl Chloride              | 1.725  | 62    | 827      | 0.027    | ppbv   | 67       |
| 12) Acetone                    | 3.327  | 43    | 8408     | 0.180    | ppbv   | 93       |
| 13) Trichlorofluoromethane     | 2.218  | 101   | 2078     | 0.024    | ppbv#  | 81       |
| 16) 1,1-Dichloroethene         | 2.663  | 61    | 1353     | 0.032    | ppbv#  | 75       |
| 17) Methylene Chloride         | 3.279  | 49    | 3362     | 0.096    | ppbv   | 89       |
| 21) Trichlorotrifluoroethane   | 2.732  | 101   | 1810     | 0.029    | ppbv   | 95       |
| 26) Cis-1,2-Dichloroethene     | 5.134  | 61    | 1223     | 0.026    | ppbv#  | 41       |
| 32) 1,1,1-Trichloroethane      | 5.891  | 97    | 2437     | 0.032    | ppbv#  | 83       |
| 33) Benzene                    | 6.427  | 78    | 4264     | 0.040    | ppbv#  | 84       |
| 34) Carbon Tetrachloride       | 5.790  | 117   | 2017     | 0.028    | ppbv   | 81       |
| 39) Trichloroethene            | 7.297  | 130   | 1688     | 0.029    | ppbv   | 98       |
| 48) Toluene                    | 9.151  | 91    | 4287     | 0.030    | ppbv#  | 92       |
| 52) Tetrachloroethene          | 9.613  | 166   | 2158     | 0.027    | ppbv   | 87       |
| 55) Chlorobenzene              | 10.947 | 112   | 3057     | 0.027    | ppbv#  | 1        |
| 56) Ethylbenzene               | 11.023 | 91    | 4895     | 0.029    | ppbv   | 94       |
| 57) m, p-Xylene                | 11.208 | 91    | 7752     | 0.057    | ppbv#  | 93       |
| 61) o-Xylene                   | 11.709 | 91    | 3984     | 0.027    | ppbv#  | 84       |
| 71) 1,3-Dichlorobenzene        | 13.627 | 146   | 2991     | 0.031    | ppbv   | 99       |
| 72) 1,4-Dichlorobenzene        | 13.724 | 146   | 2960     | 0.031    | ppbv   | 93       |
| 75) 1,2-Dichlorobenzene        | 14.100 | 146   | 2185     | 0.029    | ppbv   | 96       |
| 77) 1,2,4-Trichlorobenzene     | 15.261 | 180   | 1650     | 0.032    | ppbv   | 92       |
| 82) Vinyl Chloride(sim)        | 1.728  | 62    | 800      | 0.023    | ppbv   | 95       |
| 86) Carbon Tetrachloride(sim)  | 5.785  | 117   | 1377     | 0.020    | ppbv   | 98       |
| 87) 1,1-Dichloroethene(sim)    | 2.673  | 61    | 1234m    | 0.026    | ppbv   | 75       |
| 91) Cis-1,2-Dichloroethene...  | 5.129  | 61    | 1242m    | 0.025    | ppbv   | 35       |
| 97) Trichloroethene(sim)       | 7.297  | 130   | 1688     | 0.027    | ppbv   | 98       |
| 103) Tetrachloroethene(sim)    | 9.615  | 166   | 2196m    | 0.025    | ppbv   | 84       |
| 107) m, p-Xylene(sim)          | 11.208 | 91    | 7752     | 0.056    | ppbv#  | 97       |
| 113) 1,4-Dichlorobenzene(sim)  | 13.724 | 146   | 2960     | 0.029    | ppbv   | 91       |
| 118) 1,2,4-Trichlorobenzene... | 15.259 | 180   | 1750     | 0.028    | ppbv   | 98       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_05.D  
 Acq On : 10 Jul 2020 8:09 pm  
 Operator : Keith  
 Client ID : ICAL 0.02  
 Lab ID : 0.02  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 13 10:09:31 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 10:07:42 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_06.D  
 Acq On : 10 Jul 2020 8:41 pm  
 Operator : Keith  
 Client ID : ICAL 0.035  
 Lab ID : 0.035  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 13 10:15:50 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 10:14:25 2020  
 Response via : Initial Calibration

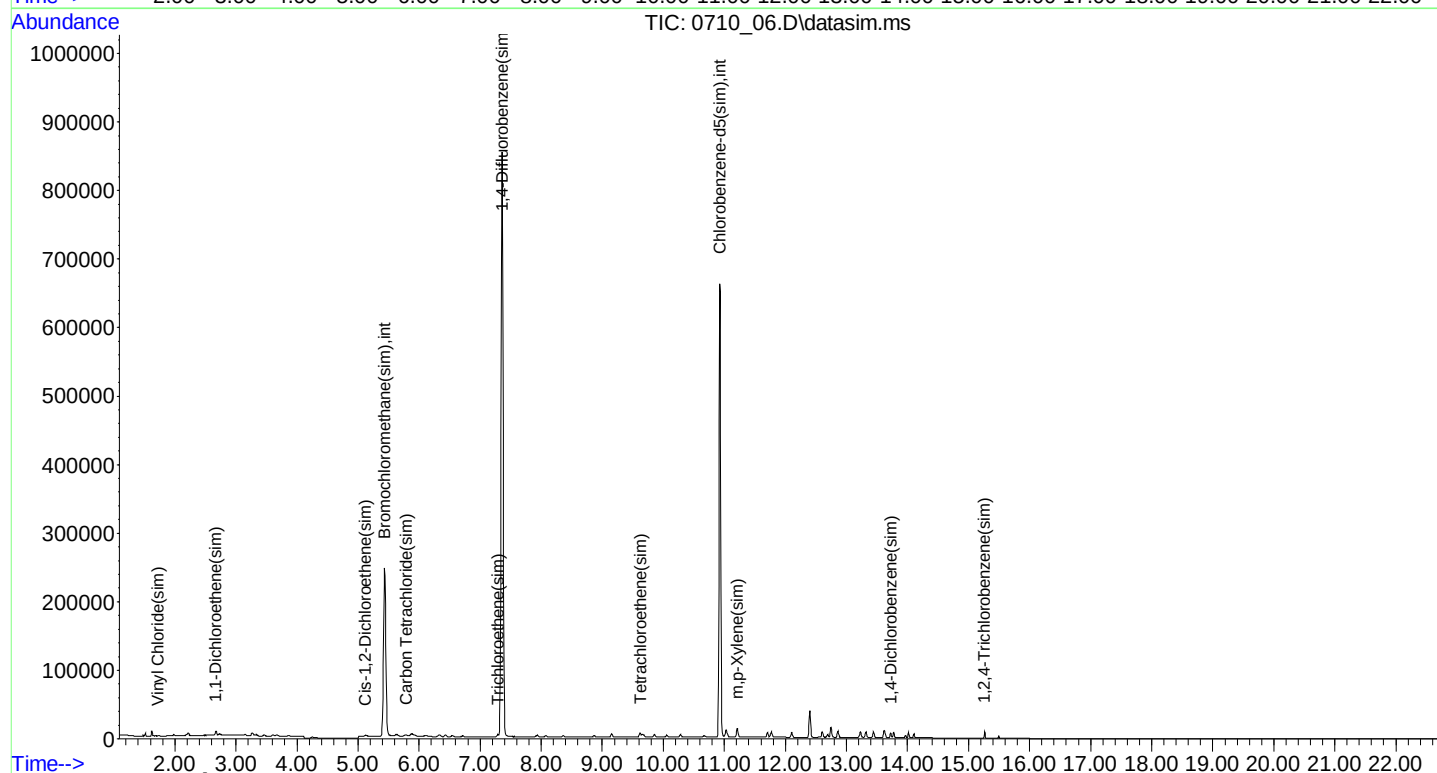
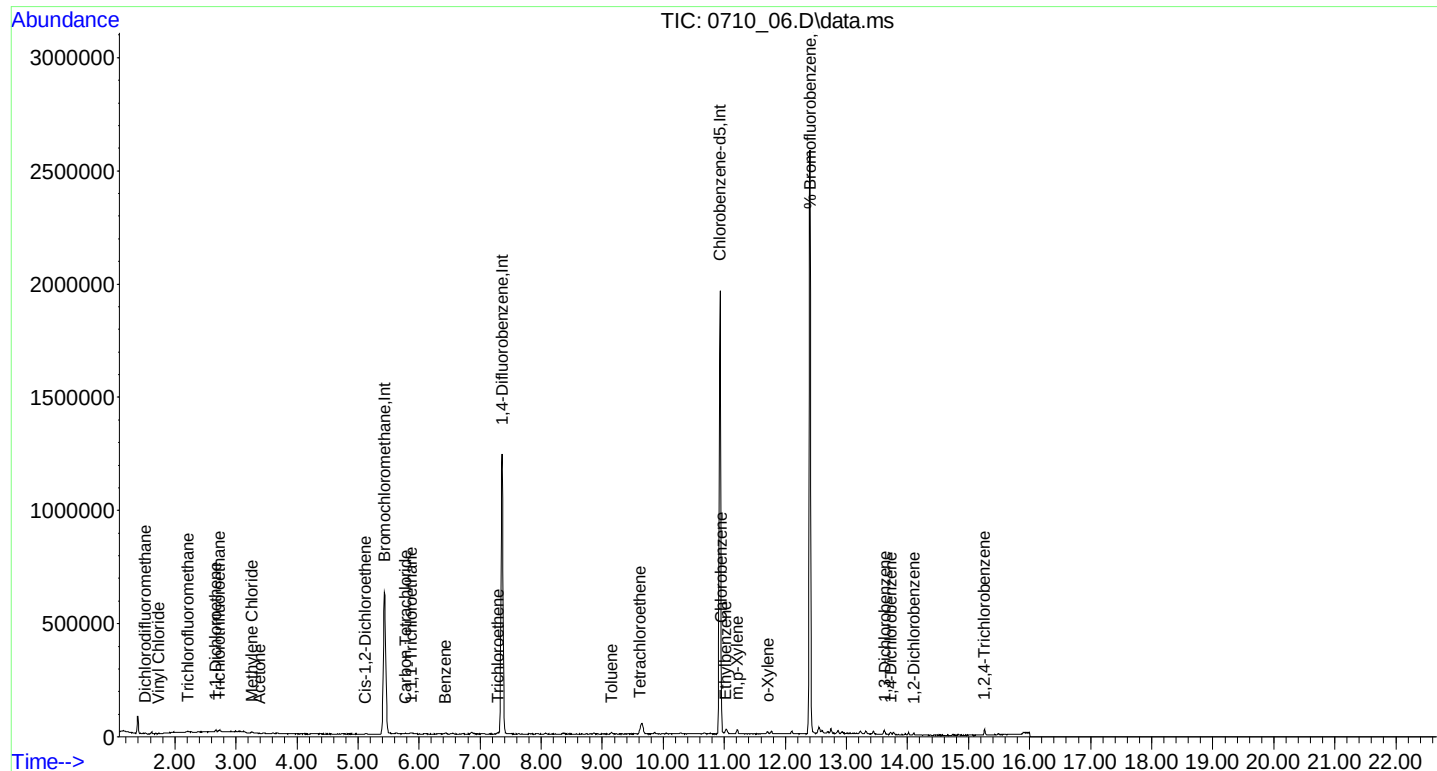
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 5.432  | 130   | 364082   | 10.000   | ng     | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.361  | 114   | 1314370  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.929 | 82    | 627933   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 5.435  | 130   | 358658   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)   | 7.364  | 114   | 1422261  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.925 | 82    | 670607   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 62) % Bromofluorobenzene       | 12.402 | 95    | 874262   | 9.750    | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =      | 97.50%   |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane     | 1.513  | 85    | 3514     | 0.055    | ppbv#  | 95       |
| 6) Vinyl Chloride              | 1.732  | 62    | 1426     | 0.047    | ppbv   | 94       |
| 12) Acetone                    | 3.395  | 43    | 1099     | 0.024    | ppbv   | 95       |
| 13) Trichlorofluoromethane     | 2.218  | 101   | 3537     | 0.042    | ppbv#  | 92       |
| 16) 1,1-Dichloroethene         | 2.670  | 61    | 1963     | 0.047    | ppbv   | 89       |
| 17) Methylene Chloride         | 3.265  | 49    | 3507     | 0.101    | ppbv   | 97       |
| 21) Trichlorotrifluoroethane   | 2.732  | 101   | 2686     | 0.044    | ppbv#  | 87       |
| 26) Cis-1,2-Dichloroethene     | 5.122  | 61    | 1811     | 0.039    | ppbv#  | 77       |
| 32) 1,1,1-Trichloroethane      | 5.879  | 97    | 3747     | 0.050    | ppbv   | 95       |
| 33) Benzene                    | 6.436  | 78    | 5731     | 0.054    | ppbv#  | 64       |
| 34) Carbon Tetrachloride       | 5.785  | 117   | 2803     | 0.039    | ppbv#  | 81       |
| 39) Trichloroethene            | 7.292  | 130   | 2479     | 0.042    | ppbv   | 99       |
| 48) Toluene                    | 9.153  | 91    | 6097     | 0.043    | ppbv#  | 93       |
| 52) Tetrachloroethene          | 9.622  | 166   | 3206     | 0.039    | ppbv   | 92       |
| 55) Chlorobenzene              | 10.949 | 112   | 4429     | 0.039    | ppbv#  | 64       |
| 56) Ethylbenzene               | 11.025 | 91    | 6713     | 0.040    | ppbv   | 95       |
| 57) m, p-Xylene                | 11.210 | 91    | 11364    | 0.084    | ppbv   | 95       |
| 61) o-Xylene                   | 11.711 | 91    | 5640     | 0.039    | ppbv#  | 91       |
| 71) 1,3-Dichlorobenzene        | 13.629 | 146   | 4188     | 0.043    | ppbv   | 97       |
| 72) 1,4-Dichlorobenzene        | 13.726 | 146   | 3819     | 0.039    | ppbv   | 91       |
| 75) 1,2-Dichlorobenzene        | 14.102 | 146   | 3048     | 0.041    | ppbv   | 95       |
| 77) 1,2,4-Trichlorobenzene     | 15.262 | 180   | 2063     | 0.040    | ppbv   | 87       |
| 82) Vinyl Chloride(sim)        | 1.728  | 62    | 1303     | 0.038    | ppbv   | 97       |
| 86) Carbon Tetrachloride(sim)  | 5.788  | 117   | 2280     | 0.034    | ppbv   | 99       |
| 87) 1,1-Dichloroethene(sim)    | 2.666  | 61    | 1860m    | 0.039    | ppbv   | 85       |
| 91) Cis-1,2-Dichloroethene...  | 5.122  | 61    | 1811     | 0.036    | ppbv#  | 77       |
| 97) Trichloroethene(sim)       | 7.292  | 130   | 2479     | 0.039    | ppbv   | 97       |
| 103) Tetrachloroethene(sim)    | 9.622  | 166   | 3206     | 0.037    | ppbv   | 90       |
| 107) m, p-Xylene(sim)          | 11.210 | 91    | 11364    | 0.083    | ppbv   | 95       |
| 113) 1,4-Dichlorobenzene(sim)  | 13.726 | 146   | 3819     | 0.038    | ppbv   | 89       |
| 118) 1,2,4-Trichlorobenzene... | 15.260 | 180   | 2320     | 0.037    | ppbv   | 97       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_06.D  
 Acq On : 10 Jul 2020 8:41 pm  
 Operator : Keith  
 Client ID : ICAL 0.035  
 Lab ID : 0.035  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 13 10:15:50 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 10:14:25 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_07.D  
 Acq On : 10 Jul 2020 9:13 pm  
 Operator : Keith  
 Client ID : ICAL 0.05  
 Lab ID : 0.05  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 13 10:16:38 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 10:15:59 2020  
 Response via : Initial Calibration

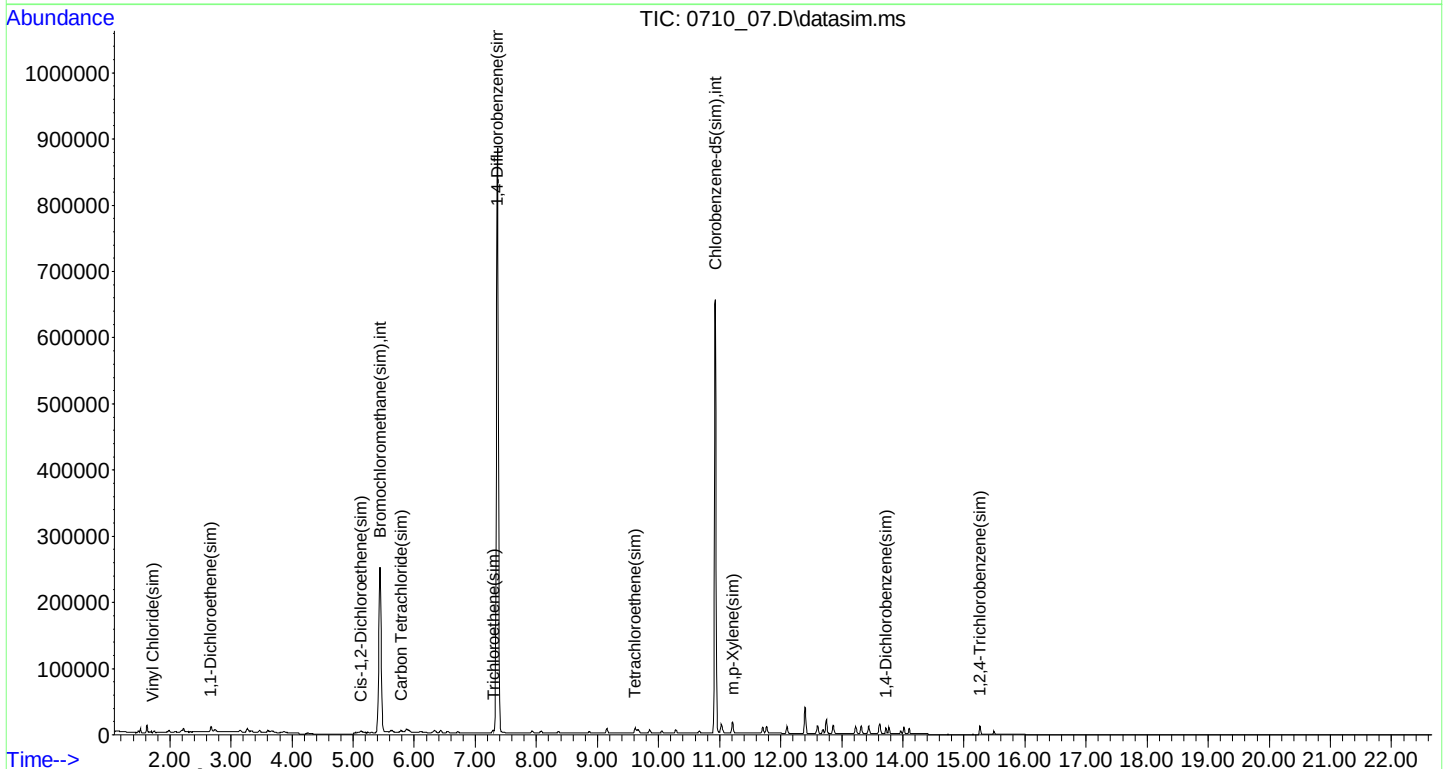
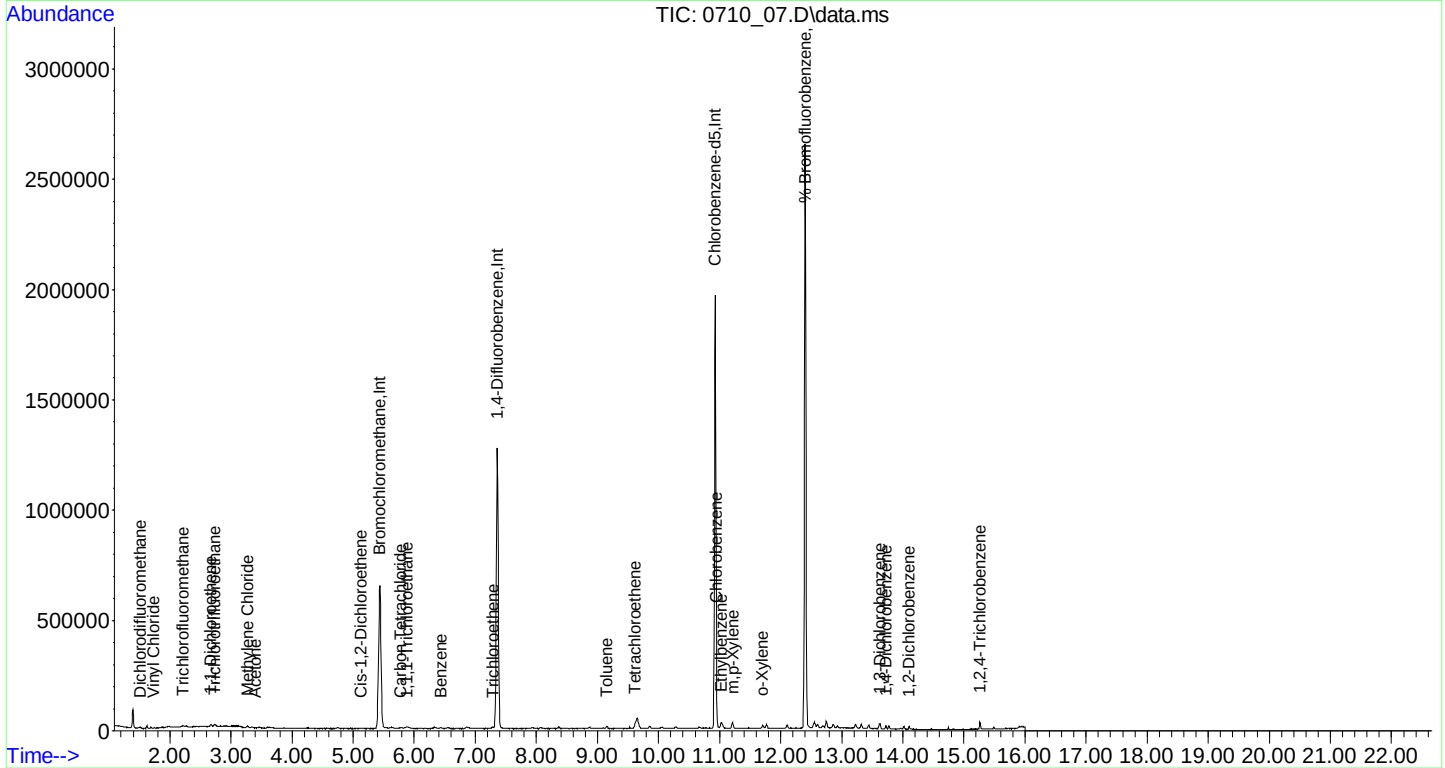
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 5.439  | 130   | 370619   | 10.000   | ng     | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.360  | 114   | 1327559  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.928 | 82    | 638631   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 5.442  | 130   | 367749   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)   | 7.363  | 114   | 1444651  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.931 | 82    | 681078   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 62) % Bromofluorobenzene       | 12.402 | 95    | 902108   | 9.892    | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =      | 98.90%   |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane     | 1.512  | 85    | 4508     | 0.069    | ppbv#  | 93       |
| 6) Vinyl Chloride              | 1.732  | 62    | 1860     | 0.061    | ppbv   | 76       |
| 12) Acetone                    | 3.402  | 43    | 324      | 0.007    | ppbv#  | 54       |
| 13) Trichlorofluoromethane     | 2.218  | 101   | 5044     | 0.058    | ppbv   | 93       |
| 16) 1,1-Dichloroethene         | 2.670  | 61    | 2680     | 0.063    | ppbv   | 91       |
| 17) Methylene Chloride         | 3.272  | 49    | 4057     | 0.115    | ppbv   | 96       |
| 21) Trichlorotrifluoroethane   | 2.731  | 101   | 3764     | 0.061    | ppbv#  | 85       |
| 26) Cis-1,2-Dichloroethene     | 5.129  | 61    | 2697     | 0.057    | ppbv#  | 81       |
| 32) 1,1,1-Trichloroethane      | 5.886  | 97    | 4565     | 0.059    | ppbv   | 91       |
| 33) Benzene                    | 6.436  | 78    | 7395     | 0.069    | ppbv#  | 73       |
| 34) Carbon Tetrachloride       | 5.777  | 117   | 3589     | 0.050    | ppbv   | 93       |
| 39) Trichloroethene            | 7.292  | 130   | 3304     | 0.056    | ppbv   | 94       |
| 48) Toluene                    | 9.153  | 91    | 7837     | 0.055    | ppbv#  | 93       |
| 52) Tetrachloroethene          | 9.615  | 166   | 4483     | 0.055    | ppbv   | 96       |
| 55) Chlorobenzene              | 10.949 | 112   | 6422     | 0.056    | ppbv#  | 75       |
| 56) Ethylbenzene               | 11.031 | 91    | 9456     | 0.055    | ppbv   | 98       |
| 57) m, p-Xylene                | 11.217 | 91    | 15858    | 0.115    | ppbv   | 96       |
| 61) o-Xylene                   | 11.704 | 91    | 8026     | 0.055    | ppbv   | 96       |
| 71) 1,3-Dichlorobenzene        | 13.628 | 146   | 6003     | 0.061    | ppbv   | 99       |
| 72) 1,4-Dichlorobenzene        | 13.719 | 146   | 5281     | 0.054    | ppbv   | 98       |
| 75) 1,2-Dichlorobenzene        | 14.102 | 146   | 4371     | 0.058    | ppbv   | 99       |
| 77) 1,2,4-Trichlorobenzene     | 15.258 | 180   | 2940     | 0.056    | ppbv   | 100      |
| 82) Vinyl Chloride(sim)        | 1.728  | 62    | 1822     | 0.052    | ppbv   | 100      |
| 86) Carbon Tetrachloride(sim)  | 5.788  | 117   | 3306     | 0.047    | ppbv   | 98       |
| 87) 1,1-Dichloroethene(sim)    | 2.670  | 61    | 2680     | 0.055    | ppbv#  | 75       |
| 91) Cis-1,2-Dichloroethene...  | 5.129  | 61    | 2697     | 0.053    | ppbv#  | 73       |
| 97) Trichloroethene(sim)       | 7.292  | 130   | 3304     | 0.051    | ppbv   | 94       |
| 103) Tetrachloroethene(sim)    | 9.615  | 166   | 4483     | 0.051    | ppbv   | 96       |
| 107) m, p-Xylene(sim)          | 11.217 | 91    | 15917    | 0.114    | ppbv   | 97       |
| 113) 1,4-Dichlorobenzene(sim)  | 13.719 | 146   | 5281     | 0.051    | ppbv   | 98       |
| 118) 1,2,4-Trichlorobenzene... | 15.261 | 180   | 3344     | 0.052    | ppbv   | 98       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_07.D  
 Acq On : 10 Jul 2020 9:13 pm  
 Operator : Keith  
 Client ID : ICAL 0.05  
 Lab ID : 0.05  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 13 10:16:38 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 10:15:59 2020  
 Response via : Initial Calibration





## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_08.D  
 Acq On : 10 Jul 2020 9:46 pm  
 Operator : Keith  
 Client ID : ICAL 0.1  
 Lab ID : 0.10  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 13 10:18:07 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 10:16:44 2020  
 Response via : Initial Calibration

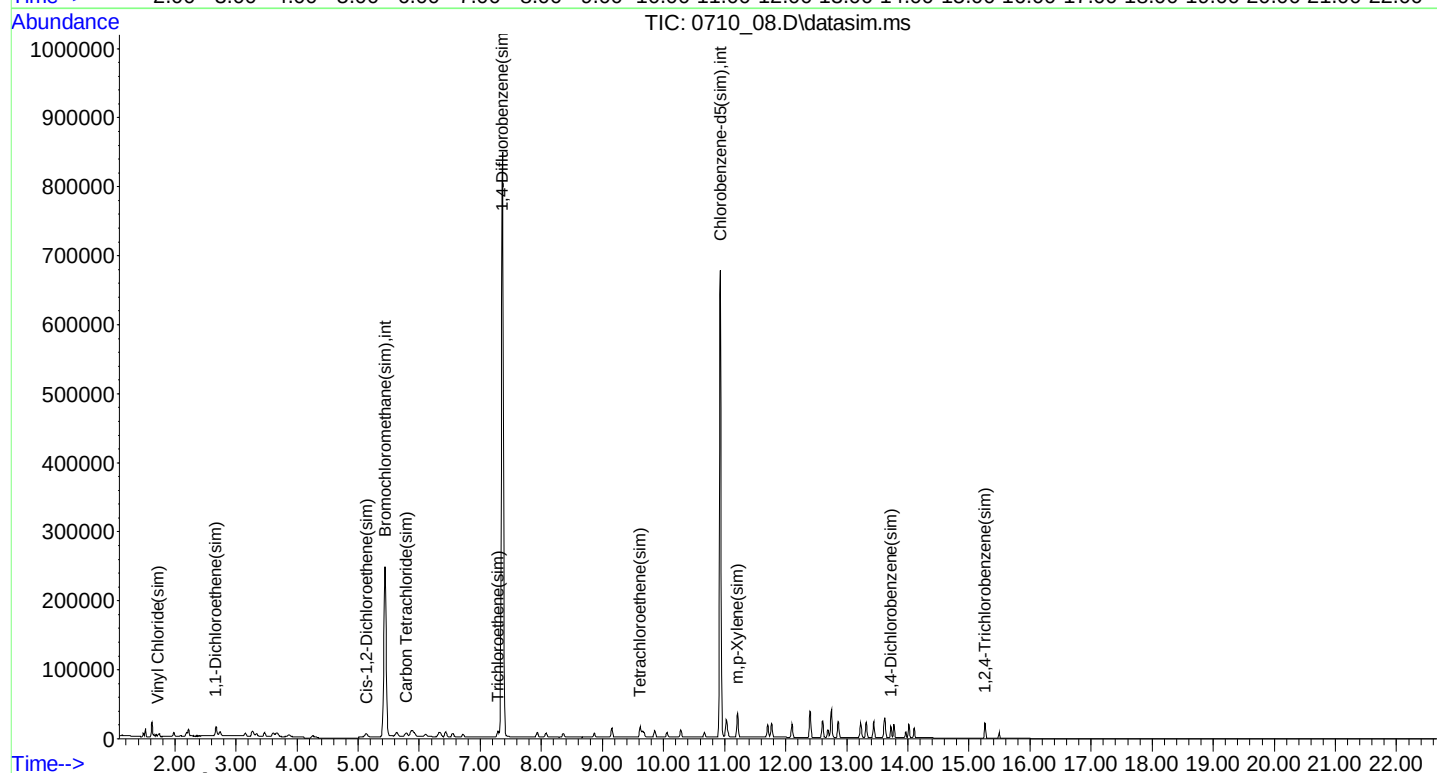
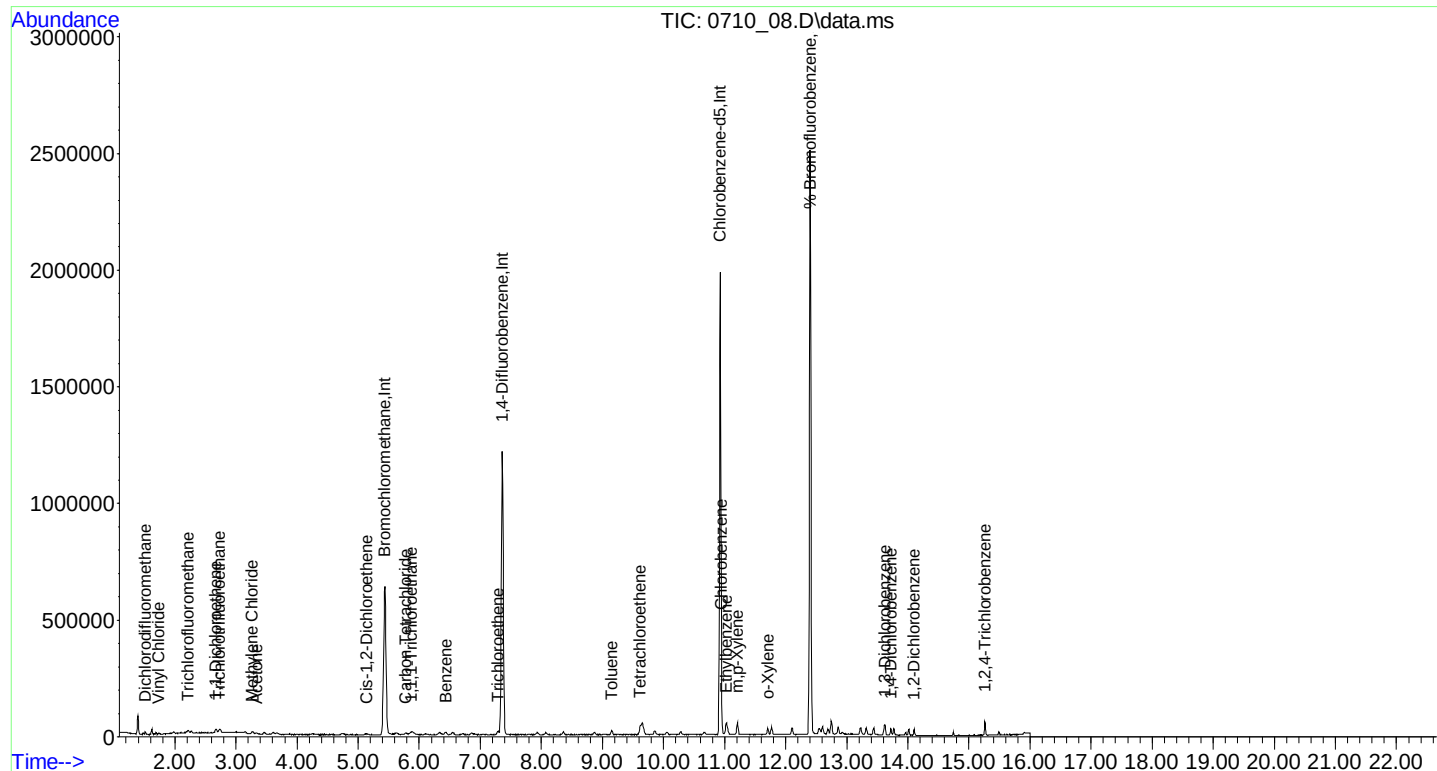
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 5.439  | 130   | 361313   | 10.000   | ng     | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.360  | 114   | 1279913  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.928 | 82    | 621853   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 5.442  | 130   | 358317   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)   | 7.363  | 114   | 1391925  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.931 | 82    | 660998   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 62) % Bromofluorobenzene       | 12.402 | 95    | 858822   | 9.671    | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =      | 96.70%   |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane     | 1.519  | 85    | 8032     | 0.127    | ppbv   | 98       |
| 6) Vinyl Chloride              | 1.732  | 62    | 3249     | 0.109    | ppbv   | 76       |
| 12) Acetone                    | 3.340  | 43    | 9802     | 0.213    | ppbv   | 100      |
| 13) Trichlorofluoromethane     | 2.218  | 101   | 9334     | 0.110    | ppbv#  | 95       |
| 16) 1,1-Dichloroethene         | 2.670  | 61    | 4750     | 0.115    | ppbv   | 89       |
| 17) Methylene Chloride         | 3.265  | 49    | 5803     | 0.168    | ppbv   | 93       |
| 21) Trichlorotrifluoroethane   | 2.731  | 101   | 6899     | 0.114    | ppbv#  | 89       |
| 26) Cis-1,2-Dichloroethene     | 5.136  | 61    | 5003     | 0.108    | ppbv   | 85       |
| 32) 1,1,1-Trichloroethane      | 5.871  | 97    | 8563     | 0.114    | ppbv   | 97       |
| 33) Benzene                    | 6.436  | 78    | 12830    | 0.122    | ppbv   | 91       |
| 34) Carbon Tetrachloride       | 5.785  | 117   | 6677     | 0.095    | ppbv   | 96       |
| 39) Trichloroethene            | 7.285  | 130   | 6055     | 0.106    | ppbv   | 97       |
| 48) Toluene                    | 9.153  | 91    | 15844    | 0.114    | ppbv   | 92       |
| 52) Tetrachloroethene          | 9.615  | 166   | 8608     | 0.109    | ppbv   | 99       |
| 55) Chlorobenzene              | 10.949 | 112   | 12395    | 0.110    | ppbv#  | 51       |
| 56) Ethylbenzene               | 11.025 | 91    | 18778    | 0.113    | ppbv   | 99       |
| 57) m,p-Xylene                 | 11.210 | 91    | 29875    | 0.222    | ppbv   | 99       |
| 61) o-Xylene                   | 11.711 | 91    | 15426    | 0.108    | ppbv   | 95       |
| 71) 1,3-Dichlorobenzene        | 13.628 | 146   | 10691    | 0.111    | ppbv   | 95       |
| 72) 1,4-Dichlorobenzene        | 13.719 | 146   | 10527    | 0.110    | ppbv   | 94       |
| 75) 1,2-Dichlorobenzene        | 14.102 | 146   | 7996     | 0.109    | ppbv   | 96       |
| 77) 1,2,4-Trichlorobenzene     | 15.263 | 180   | 5265     | 0.104    | ppbv   | 97       |
| 82) Vinyl Chloride(sim)        | 1.728  | 62    | 3468     | 0.103    | ppbv   | 98       |
| 86) Carbon Tetrachloride(sim)  | 5.788  | 117   | 6443     | 0.095    | ppbv   | 99       |
| 87) 1,1-Dichloroethene(sim)    | 2.670  | 61    | 4750     | 0.100    | ppbv#  | 71       |
| 91) Cis-1,2-Dichloroethene...  | 5.136  | 61    | 5003     | 0.100    | ppbv#  | 84       |
| 97) Trichloroethene(sim)       | 7.285  | 130   | 5712     | 0.092    | ppbv   | 96       |
| 103) Tetrachloroethene(sim)    | 9.615  | 166   | 8608     | 0.101    | ppbv   | 97       |
| 107) m,p-Xylene(sim)           | 11.210 | 91    | 29875    | 0.219    | ppbv   | 98       |
| 113) 1,4-Dichlorobenzene(sim)  | 13.719 | 146   | 10527    | 0.105    | ppbv   | 94       |
| 118) 1,2,4-Trichlorobenzene... | 15.261 | 180   | 5706     | 0.092    | ppbv   | 99       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_08.D  
 Acq On : 10 Jul 2020 9:46 pm  
 Operator : Keith  
 Client ID : ICAL 0.1  
 Lab ID : 0.10  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 13 10:18:07 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 10:16:44 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_09.D  
 Acq On : 10 Jul 2020 10:23 pm  
 Operator : Keith  
 Client ID : ICAL 0.5  
 Lab ID : 0.5  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 13 10:02:47 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 10:02:11 2020  
 Response via : Initial Calibration

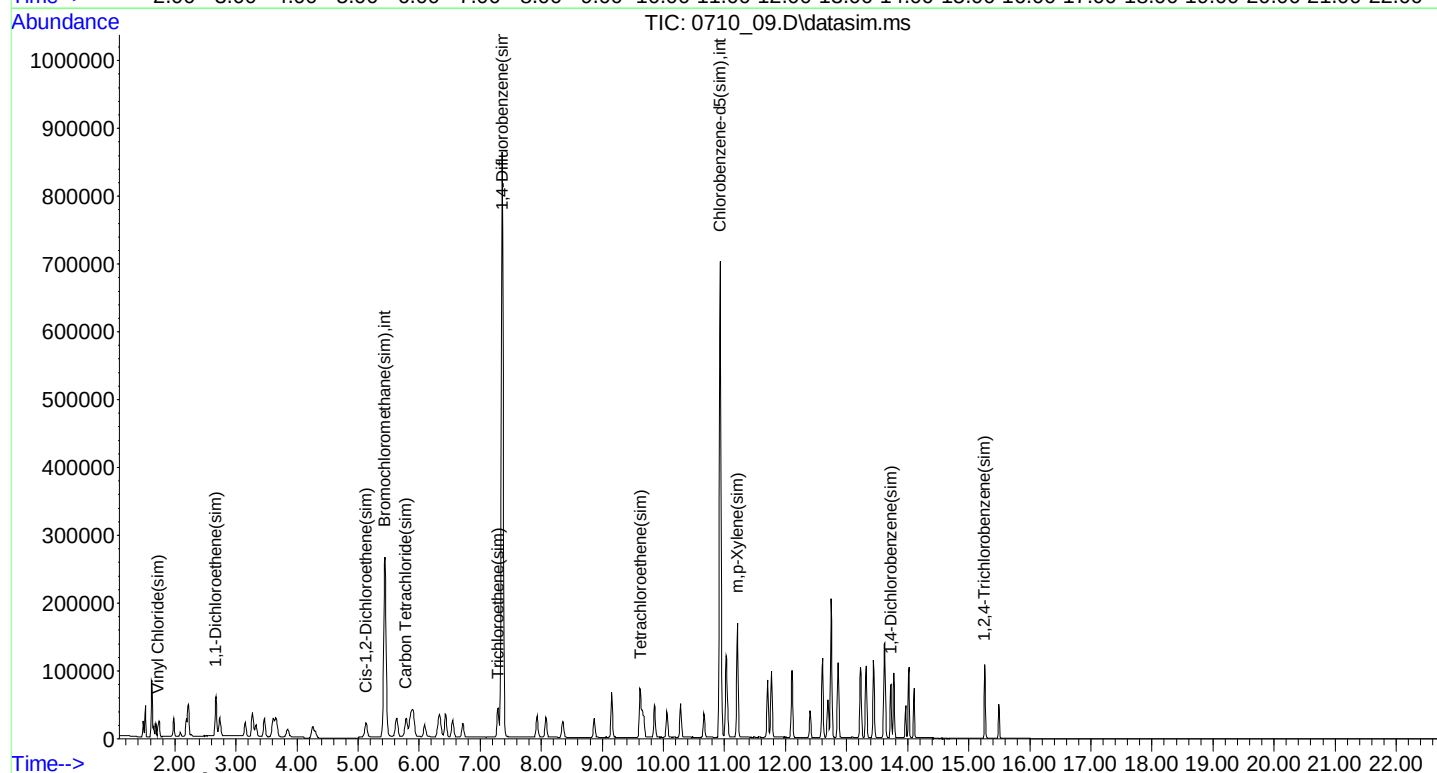
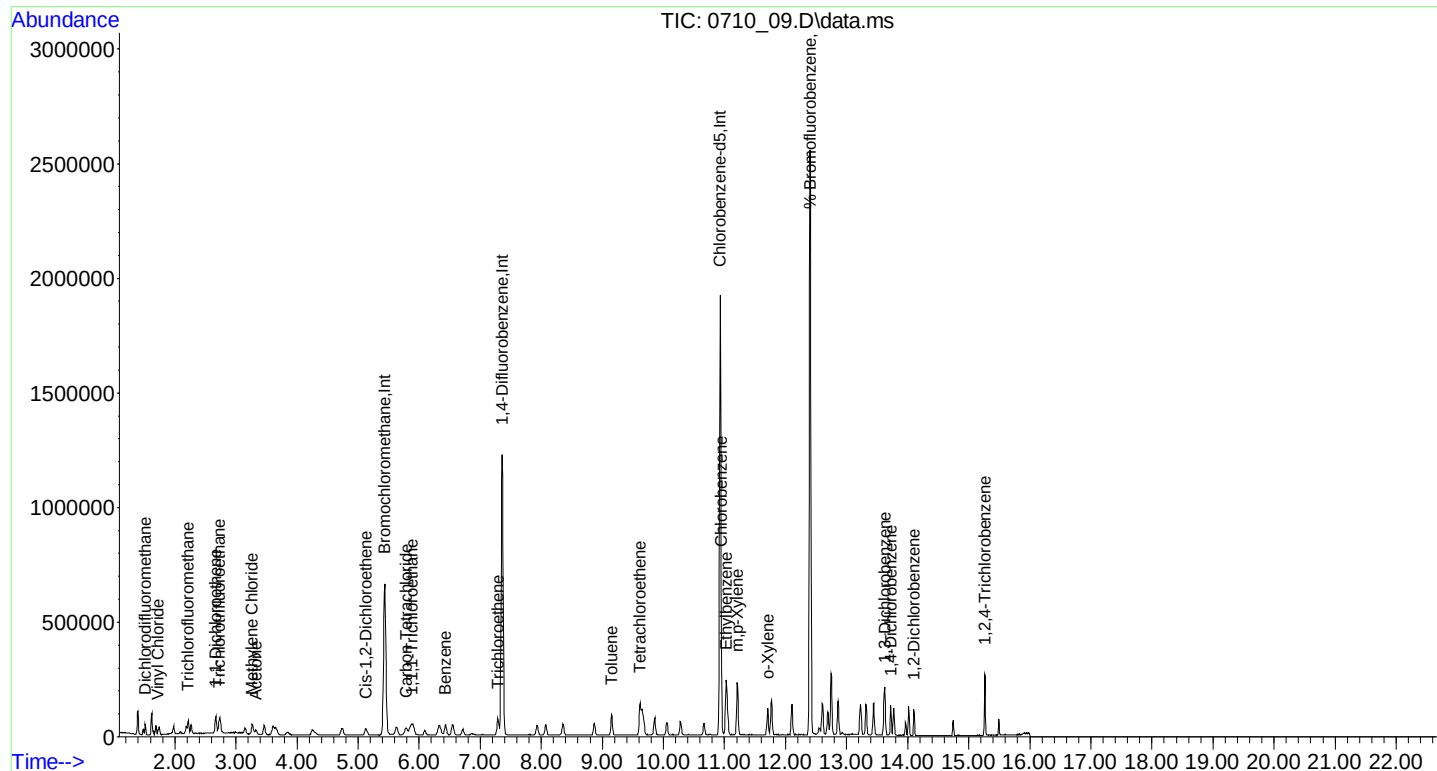
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 5.436  | 130   | 366396   | 10.000   | ng     | -0.02    |
| 36) 1,4-Difluorobenzene        | 7.359  | 114   | 1300908  | 10.000   | ng     | -0.02    |
| 53) Chlorobenzene-d5           | 10.927 | 82    | 629518   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 5.439  | 130   | 360920   | 10.000   | ng     | #-0.02   |
| 94) 1,4-Difluorobenzene(sim)   | 7.361  | 114   | 1416032  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.929 | 82    | 670735   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 62) % Bromofluorobenzene       | 12.400 | 95    | 873518   | 9.604    | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =      | 96.00%   |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane     | 1.513  | 85    | 30813    | 0.480    | ppbv   | 100      |
| 6) Vinyl Chloride              | 1.725  | 62    | 15551    | 0.514    | ppbv   | 90       |
| 12) Acetone                    | 3.327  | 43    | 29037    | 0.623    | ppbv   | 96       |
| 13) Trichlorofluoromethane     | 2.218  | 101   | 45340    | 0.529    | ppbv   | 99       |
| 16) 1,1-Dichloroethene         | 2.670  | 61    | 22436    | 0.536    | ppbv   | 96       |
| 17) Methylene Chloride         | 3.265  | 49    | 20347    | 0.582    | ppbv   | 98       |
| 21) Trichlorotrifluoroethane   | 2.732  | 101   | 33234    | 0.541    | ppbv   | 99       |
| 26) Cis-1,2-Dichloroethene     | 5.127  | 61    | 24236    | 0.516    | ppbv   | 98       |
| 32) 1,1,1-Trichloroethane      | 5.883  | 97    | 38199    | 0.503    | ppbv   | 98       |
| 33) Benzene                    | 6.434  | 78    | 55722    | 0.522    | ppbv   | 97       |
| 34) Carbon Tetrachloride       | 5.790  | 117   | 32465    | 0.455    | ppbv   | 99       |
| 39) Trichloroethene            | 7.290  | 130   | 30154    | 0.521    | ppbv   | 99       |
| 48) Toluene                    | 9.150  | 91    | 72751    | 0.516    | ppbv   | 100      |
| 52) Tetrachloroethene          | 9.620  | 166   | 41743    | 0.519    | ppbv   | 100      |
| 55) Chlorobenzene              | 10.947 | 112   | 58431    | 0.514    | ppbv   | 86       |
| 56) Ethylbenzene               | 11.029 | 91    | 90753    | 0.539    | ppbv   | 99       |
| 57) m,p-Xylene                 | 11.208 | 91    | 143711   | 1.038    | ppbv   | 99       |
| 61) o-Xylene                   | 11.709 | 91    | 73988    | 0.510    | ppbv   | 100      |
| 71) 1,3-Dichlorobenzene        | 13.626 | 146   | 51748    | 0.530    | ppbv   | 98       |
| 72) 1,4-Dichlorobenzene        | 13.724 | 146   | 49423    | 0.510    | ppbv   | 98       |
| 75) 1,2-Dichlorobenzene        | 14.100 | 146   | 38283    | 0.514    | ppbv   | 98       |
| 77) 1,2,4-Trichlorobenzene     | 15.261 | 180   | 25377    | 0.495    | ppbv   | 98       |
| 82) Vinyl Chloride(sim)        | 1.728  | 62    | 16873    | 0.495    | ppbv   | 99       |
| 86) Carbon Tetrachloride(sim)  | 5.785  | 117   | 32599    | 0.477    | ppbv   | 100      |
| 87) 1,1-Dichloroethene(sim)    | 2.670  | 61    | 22436    | 0.468    | ppbv   | 96       |
| 91) Cis-1,2-Dichloroethene...  | 5.127  | 61    | 24236    | 0.481    | ppbv   | 99       |
| 97) Trichloroethene(sim)       | 7.290  | 130   | 30154    | 0.476    | ppbv   | 99       |
| 103) Tetrachloroethene(sim)    | 9.620  | 166   | 41697    | 0.482    | ppbv   | 100      |
| 113) 1,4-Dichlorobenzene(sim)  | 13.724 | 146   | 49423    | 0.486    | ppbv   | 98       |
| 118) 1,2,4-Trichlorobenzene... | 15.259 | 180   | 27693    | 0.440    | ppbv   | 99       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_09.D  
 Acq On : 10 Jul 2020 10:23 pm  
 Operator : Keith  
 Client ID : ICAL 0.5  
 Lab ID : 0.5  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 13 10:02:47 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 10:02:11 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_10.D  
 Acq On : 10 Jul 2020 11:00 pm  
 Operator : Keith  
 Client ID : ICAL 2.5  
 Lab ID : 2.5  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 13 09:56:23 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Thu Jul 09 11:02:14 2020  
 Response via : Initial Calibration

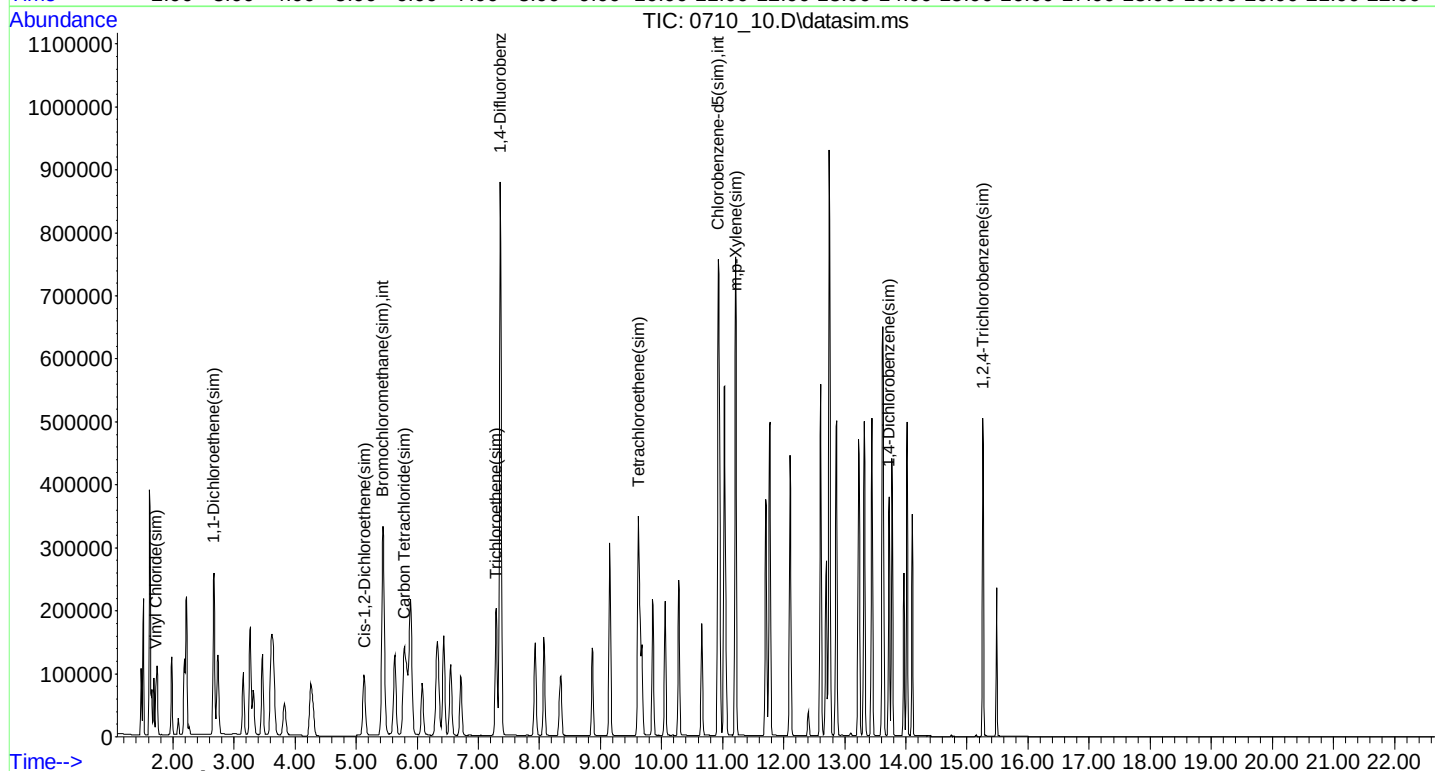
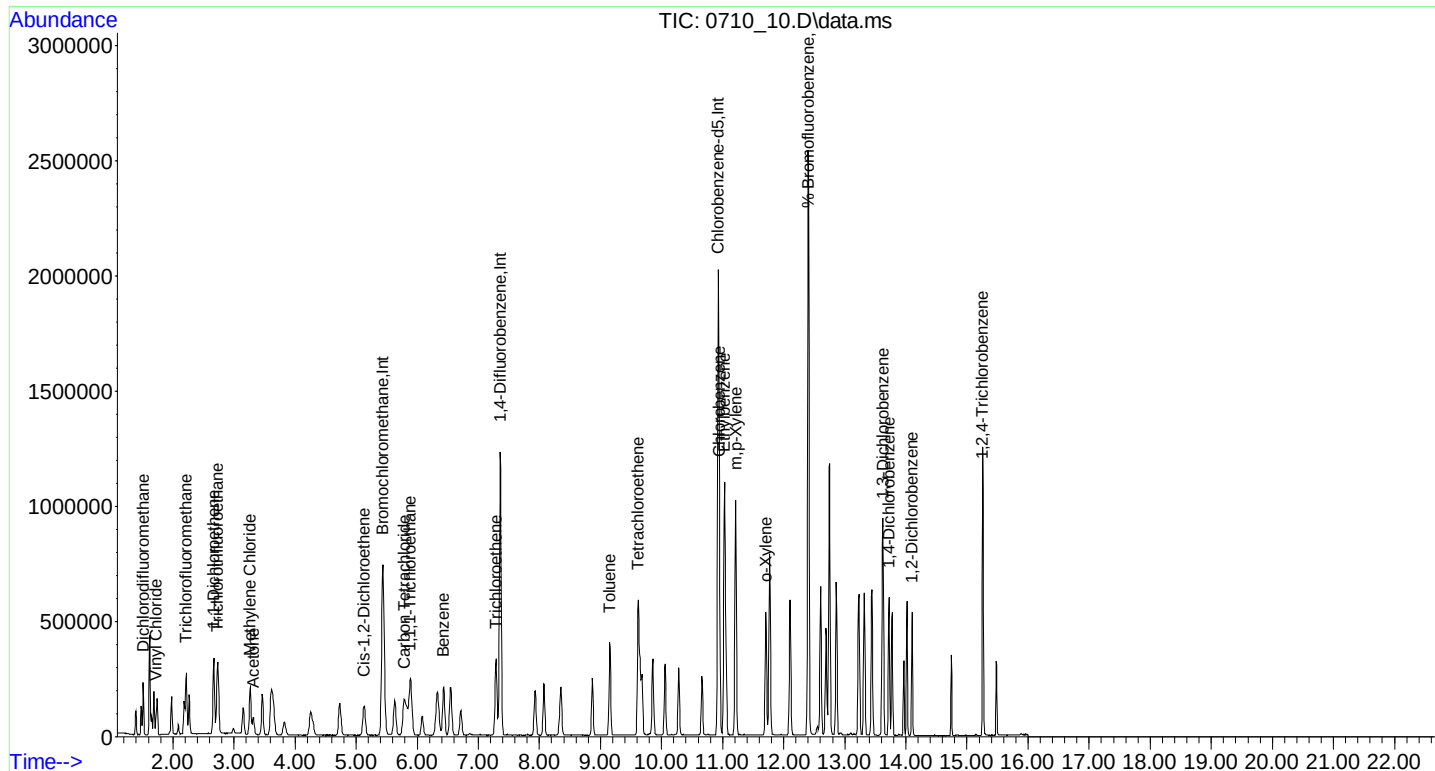
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 5.437  | 130   | 368056   | 10.000   | ng     | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.359  | 114   | 1294060  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.927 | 82    | 626581   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 5.439  | 130   | 361292   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)   | 7.362  | 114   | 1409942  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.930 | 82    | 665489   | 10.000   | ng     | # 0.00   |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 62) % Bromofluorobenzene       | 12.400 | 95    | 879363   | 10.704   | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =      | 107.00%  |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane     | 1.513  | 85    | 148634   | 2.305    | ppbv   | 96       |
| 6) Vinyl Chloride              | 1.725  | 62    | 73955    | 2.434    | ppbv   | 100      |
| 12) Acetone                    | 3.320  | 43    | 108209   | 2.311    | ppbv#  | 42       |
| 13) Trichlorofluoromethane     | 2.218  | 101   | 213887   | 2.484    | ppbv   | 96       |
| 16) 1,1-Dichloroethene         | 2.670  | 61    | 104620   | 2.488    | ppbv#  | 87       |
| 17) Methylene Chloride         | 3.265  | 49    | 88233    | 2.512    | ppbv#  | 77       |
| 21) Trichlorotrifluoroethane   | 2.732  | 101   | 154813   | 2.508    | ppbv#  | 89       |
| 26) Cis-1,2-Dichloroethene     | 5.134  | 61    | 113243   | 2.400    | ppbv#  | 78       |
| 32) 1,1,1-Trichloroethane      | 5.883  | 97    | 181076   | 2.375    | ppbv   | 92       |
| 33) Benzene                    | 6.434  | 78    | 249983   | 2.332    | ppbv#  | 92       |
| 34) Carbon Tetrachloride       | 5.790  | 117   | 163588   | 2.280    | ppbv   | 98       |
| 39) Trichloroethene            | 7.290  | 130   | 137666   | 2.391    | ppbv#  | 83       |
| 48) Toluene                    | 9.150  | 91    | 337650   | 2.410    | ppbv#  | 93       |
| 52) Tetrachloroethene          | 9.620  | 166   | 193851   | 2.425    | ppbv   | 94       |
| 55) Chlorobenzene              | 10.947 | 112   | 276007   | 2.440    | ppbv#  | 51       |
| 56) Ethylbenzene               | 11.030 | 91    | 421091   | 2.510    | ppbv   | 92       |
| 57) m,p-Xylene                 | 11.215 | 91    | 656349   | 5.209    | ppbv   | 92       |
| 61) o-Xylene                   | 11.709 | 91    | 341110   | 2.913    | ppbv   | 96       |
| 71) 1,3-Dichlorobenzene        | 13.627 | 146   | 244525   | 2.515    | ppbv   | 96       |
| 72) 1,4-Dichlorobenzene        | 13.724 | 146   | 233616   | 2.420    | ppbv   | 96       |
| 75) 1,2-Dichlorobenzene        | 14.100 | 146   | 182388   | 2.459    | ppbv   | 93       |
| 77) 1,2,4-Trichlorobenzene     | 15.256 | 180   | 118823   | 2.327    | ppbv#  | 92       |
| 82) Vinyl Chloride(sim)        | 1.728  | 62    | 78491    | 2.301    | ppbv   | 99       |
| 86) Carbon Tetrachloride(sim)  | 5.785  | 117   | 165910   | 2.423    | ppbv   | 99       |
| 87) 1,1-Dichloroethene(sim)    | 2.670  | 61    | 104620   | 2.178    | ppbv#  | 87       |
| 91) Cis-1,2-Dichloroethene...  | 5.134  | 61    | 113243   | 2.245    | ppbv#  | 77       |
| 97) Trichloroethene(sim)       | 7.290  | 130   | 137344   | 2.176    | ppbv#  | 83       |
| 103) Tetrachloroethene(sim)    | 9.620  | 166   | 193684   | 2.249    | ppbv   | 94       |
| 107) m,p-Xylene(sim)           | 11.215 | 91    | 656838   | 5.785    | ppbv#  | 88       |
| 113) 1,4-Dichlorobenzene(sim)  | 13.724 | 146   | 234008   | 2.320    | ppbv   | 96       |
| 118) 1,2,4-Trichlorobenzene... | 15.259 | 180   | 131252   | 2.102    | ppbv   | 95       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_10.D  
 Acq On : 10 Jul 2020 11:00 pm  
 Operator : Keith  
 Client ID : ICAL 2.5  
 Lab ID : 2.5  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 13 09:56:23 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Thu Jul 09 11:02:14 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_11.D  
 Acq On : 10 Jul 2020 11:31 pm  
 Operator : Keith  
 Client ID : ICAL 5  
 Lab ID : 5.0  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 13 09:58:35 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 09:58:15 2020  
 Response via : Initial Calibration

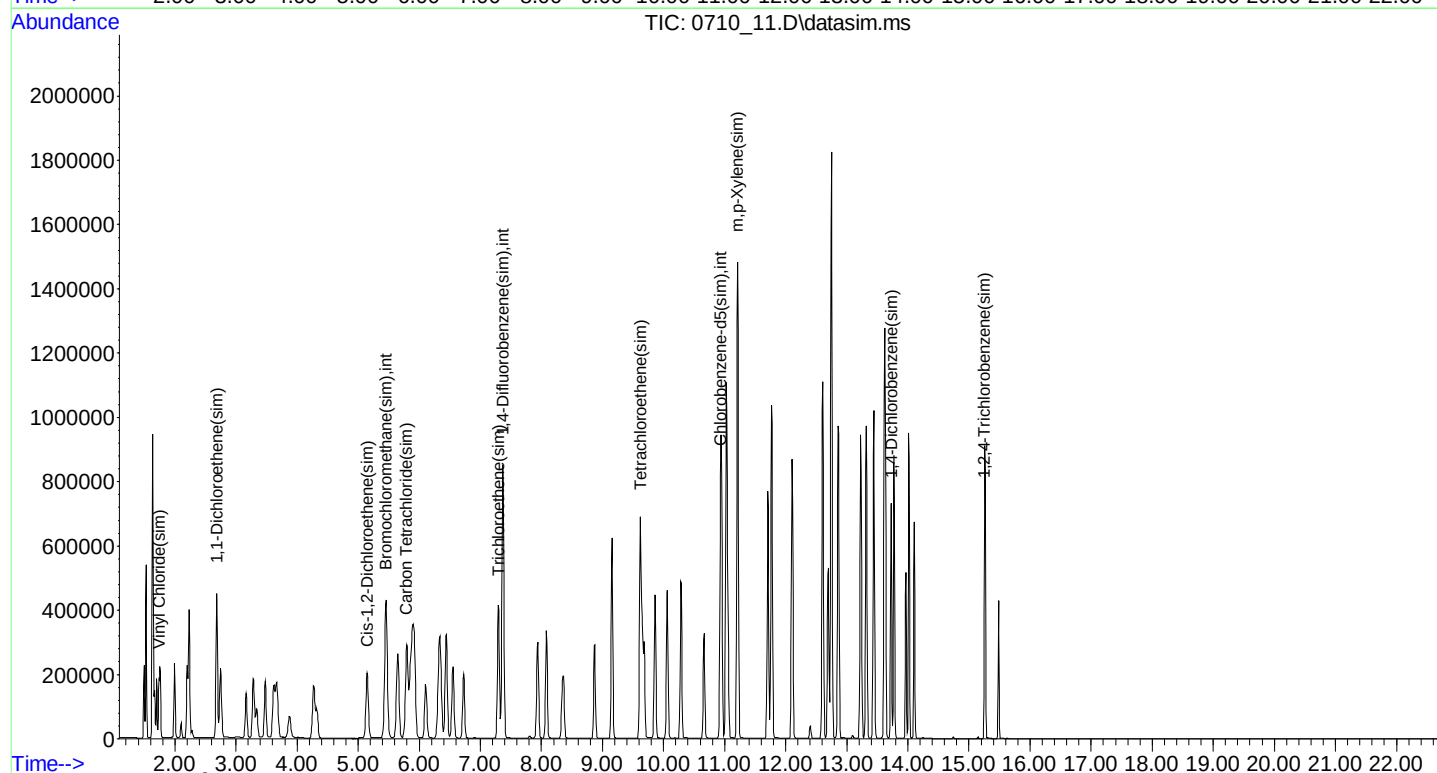
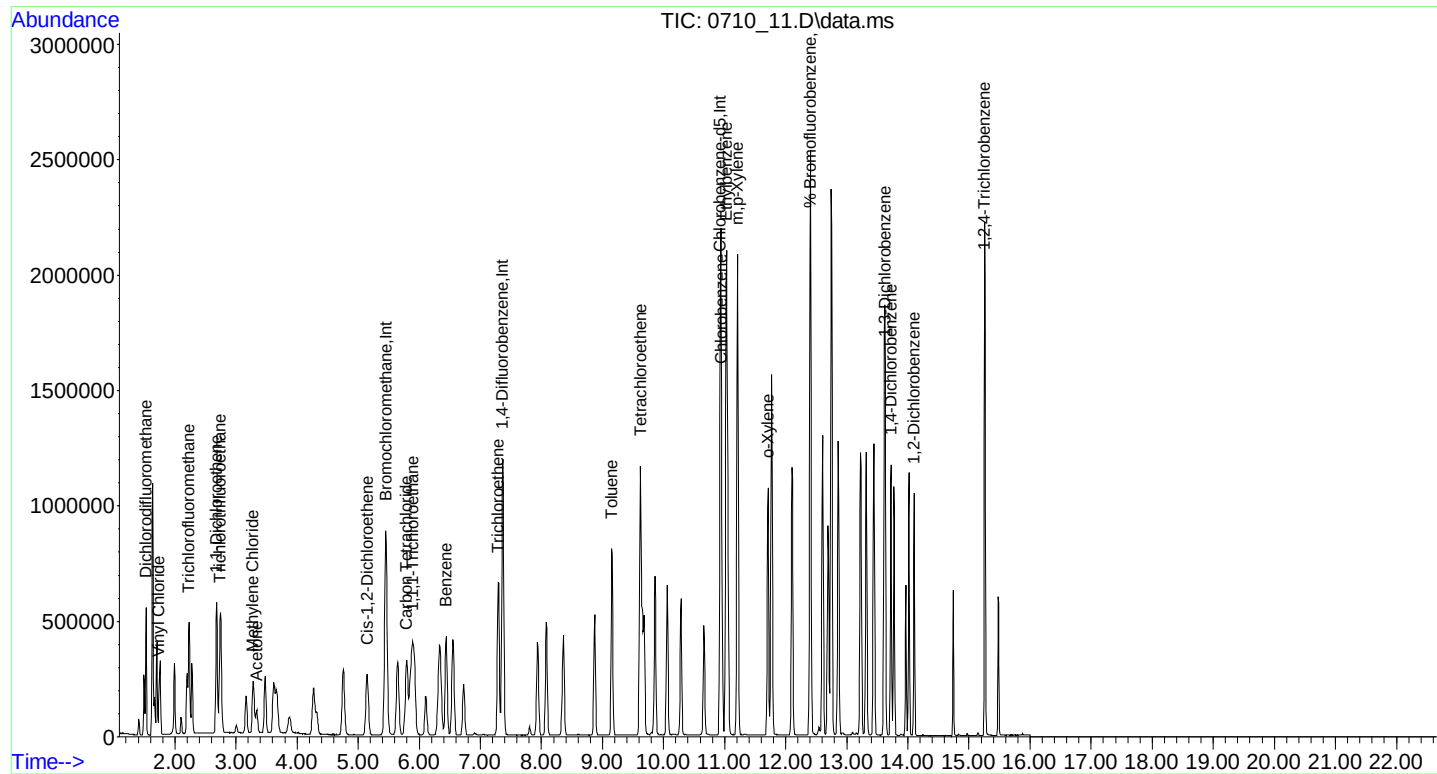
| Compound                       | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards             |        |       |          |          |       |          |
| 1) Bromochloromethane          | 5.453  | 130   | 358515   | 10.000   | ng    | 0.02     |
| 36) 1,4-Difluorobenzene        | 7.367  | 114   | 1255275  | 10.000   | ng    | 0.00     |
| 53) Chlorobenzene-d5           | 10.928 | 82    | 604869   | 10.000   | ng    | 0.00     |
| 80) Bromochloromethane(sim)    | 5.456  | 130   | 353117   | 10.000   | ng    | # 0.02   |
| 94) 1,4-Difluorobenzene(sim)   | 7.370  | 114   | 1367872  | 10.000   | ng    | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.931 | 82    | 641805   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds    |        |       |          |          |       |          |
| 62) % Bromofluorobenzene       | 12.402 | 95    | 859423   | 10.124   | ppbv  | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =     | 101.20%  |
| Target Compounds               |        |       |          |          |       |          |
|                                |        |       |          |          |       | Qvalue   |
| 3) Dichlorodifluoromethane     | 1.526  | 85    | 368691   | 5.870    | ppbv  | 99       |
| 6) Vinyl Chloride              | 1.738  | 62    | 153022   | 5.170    | ppbv  | 97       |
| 12) Acetone                    | 3.340  | 43    | 157836   | 3.461    | ppbv  | 91       |
| 13) Trichlorofluoromethane     | 2.232  | 101   | 389219   | 4.641    | ppbv  | 99       |
| 16) 1,1-Dichloroethene         | 2.684  | 61    | 184091   | 4.494    | ppbv  | 97       |
| 17) Methylene Chloride         | 3.279  | 49    | 111882   | 3.270    | ppbv  | 98       |
| 21) Trichlorotrifluoroethane   | 2.745  | 101   | 264767   | 4.403    | ppbv  | 99       |
| 26) Cis-1,2-Dichloroethene     | 5.150  | 61    | 234396   | 5.099    | ppbv  | 99       |
| 32) 1,1,1-Trichloroethane      | 5.893  | 97    | 369971   | 4.982    | ppbv  | 99       |
| 33) Benzene                    | 6.443  | 78    | 513153   | 4.915    | ppbv  | 99       |
| 34) Carbon Tetrachloride       | 5.792  | 117   | 346740   | 4.961    | ppbv  | 99       |
| 39) Trichloroethene            | 7.292  | 130   | 282225   | 5.054    | ppbv  | 100      |
| 48) Toluene                    | 9.153  | 91    | 686033   | 5.047    | ppbv  | 100      |
| 52) Tetrachloroethene          | 9.622  | 166   | 396927   | 5.119    | ppbv  | 100      |
| 55) Chlorobenzene              | 10.949 | 112   | 549587   | 5.033    | ppbv  | 99       |
| 56) Ethylbenzene               | 11.031 | 91    | 832466   | 5.141    | ppbv  | 100      |
| 71) 1,3-Dichlorobenzene        | 13.628 | 146   | 474169   | 5.051    | ppbv  | 99       |
| 72) 1,4-Dichlorobenzene        | 13.726 | 146   | 460591   | 4.943    | ppbv  | 100      |
| 75) 1,2-Dichlorobenzene        | 14.102 | 146   | 352848   | 4.928    | ppbv  | 100      |
| 77) 1,2,4-Trichlorobenzene     | 15.256 | 180   | 215830   | 4.379    | ppbv  | 99       |
| 82) Vinyl Chloride(sim)        | 1.741  | 62    | 159826   | 4.794    | ppbv  | 100      |
| 86) Carbon Tetrachloride(sim)  | 5.795  | 117   | 352604   | 5.270    | ppbv  | 100      |
| 87) 1,1-Dichloroethene(sim)    | 2.684  | 61    | 184091   | 3.921    | ppbv  | 96       |
| 91) Cis-1,2-Dichloroethene...  | 5.150  | 61    | 234396   | 4.754    | ppbv  | 99       |
| 97) Trichloroethene(sim)       | 7.292  | 130   | 282225   | 4.608    | ppbv  | 99       |
| 103) Tetrachloroethene(sim)    | 9.622  | 166   | 396927   | 4.750    | ppbv  | 100      |
| 113) 1,4-Dichlorobenzene(sim)  | 13.726 | 146   | 460591   | 4.736    | ppbv  | 100      |
| 118) 1,2,4-Trichlorobenzene... | 15.255 | 180   | 236173   | 3.921    | ppbv  | 100      |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_11.D  
 Acq On : 10 Jul 2020 11:31 pm  
 Operator : Keith  
 Client ID : ICAL 5  
 Lab ID : 5.0  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 13 09:58:35 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 09:58:15 2020  
 Response via : Initial Calibration





## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_12.D  
 Acq On : 11 Jul 2020 12:53 am  
 Operator : Keith  
 Client ID : ICAL 25  
 Lab ID : 25  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 13 10:01:01 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 10:00:42 2020  
 Response via : Initial Calibration

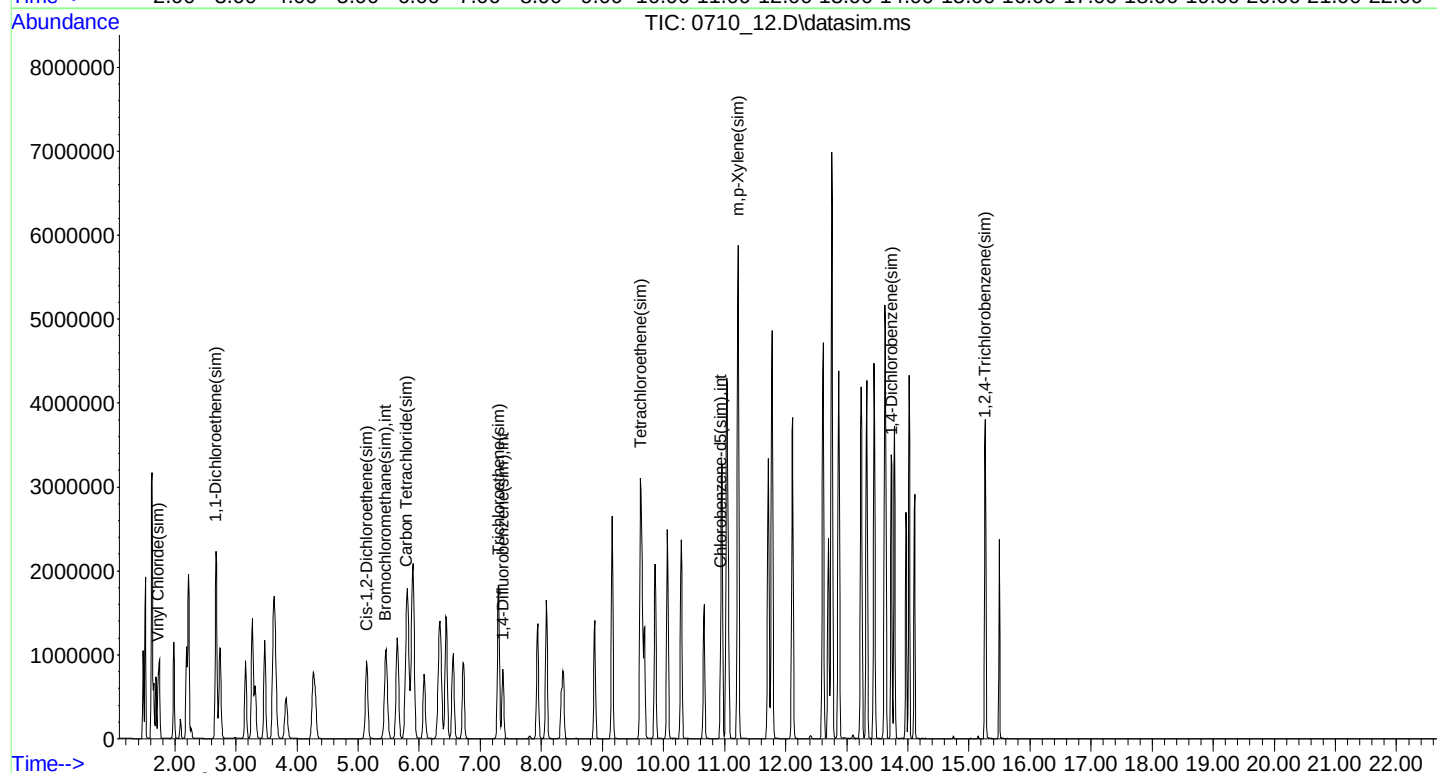
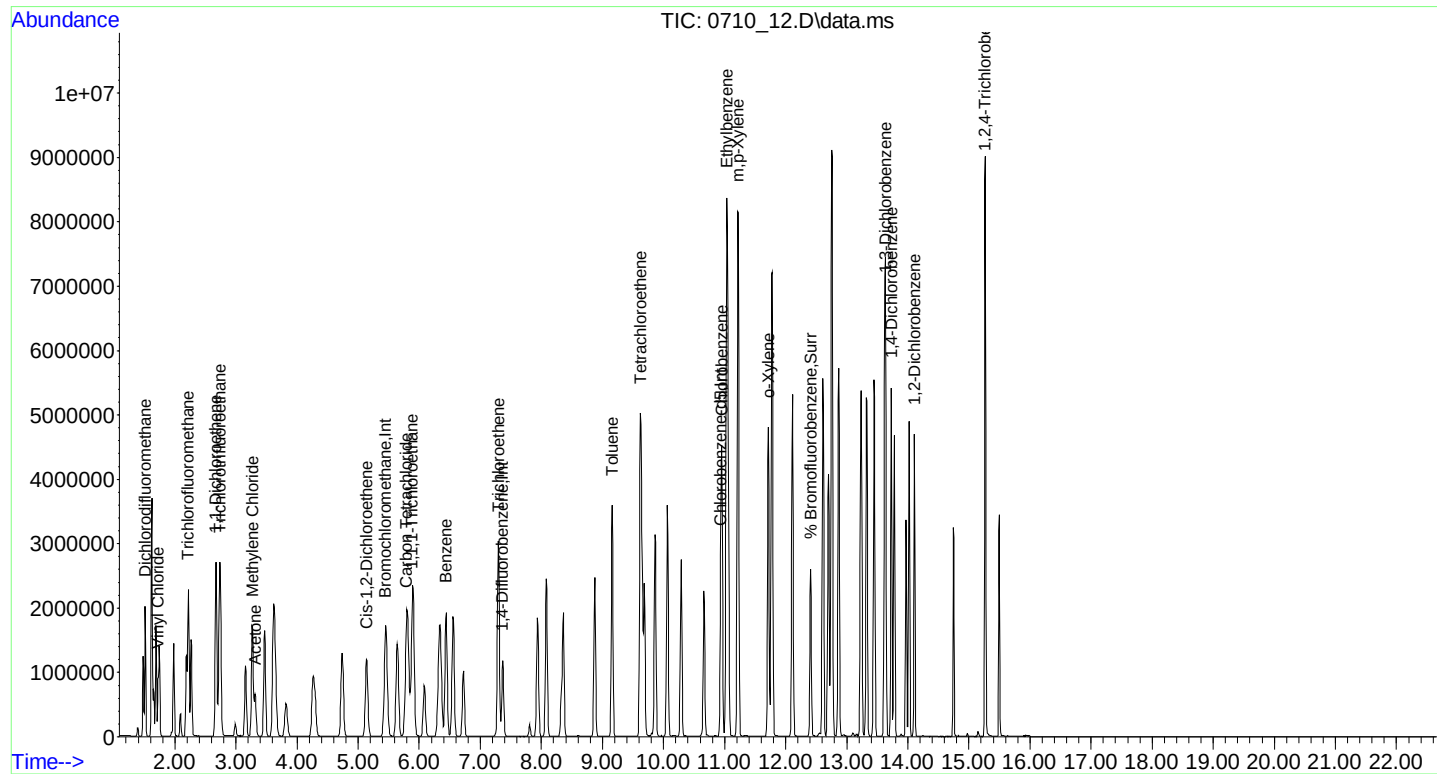
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 5.446  | 130   | 347725   | 10.000   | ng     | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.367  | 114   | 1217072  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.935 | 82    | 589512   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 5.449  | 130   | 341132   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)   | 7.370  | 114   | 1319880  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.938 | 82    | 623308   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 62) % Bromofluorobenzene       | 12.408 | 95    | 857631   | 10.302   | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =      | 103.00%  |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane     | 1.512  | 85    | 1323921  | 21.731   | ppbv   | 99       |
| 6) Vinyl Chloride              | 1.725  | 62    | 671117   | 23.380   | ppbv   | 99       |
| 12) Acetone                    | 3.313  | 43    | 1078348  | 24.379   | ppbv   | 97       |
| 13) Trichlorofluoromethane     | 2.218  | 101   | 1899896  | 23.357   | ppbv   | 100      |
| 16) 1,1-Dichloroethene         | 2.670  | 61    | 949554   | 23.899   | ppbv   | 99       |
| 17) Methylene Chloride         | 3.272  | 49    | 769755   | 23.198   | ppbv   | 99       |
| 21) Trichlorotrifluoroethane   | 2.738  | 101   | 1388266  | 23.801   | ppbv   | 99       |
| 26) Cis-1,2-Dichloroethene     | 5.136  | 61    | 1082083  | 24.270   | ppbv   | 100      |
| 32) 1,1,1-Trichloroethane      | 5.886  | 97    | 1729410  | 24.012   | ppbv   | 99       |
| 33) Benzene                    | 6.443  | 78    | 2341311  | 23.123   | ppbv   | 100      |
| 34) Carbon Tetrachloride       | 5.792  | 117   | 1807016  | 26.657   | ppbv   | 99       |
| 39) Trichloroethene            | 7.299  | 130   | 1303153  | 24.069   | ppbv   | 100      |
| 48) Toluene                    | 9.160  | 91    | 3095206  | 23.485   | ppbv   | 100      |
| 52) Tetrachloroethene          | 9.622  | 166   | 1761713  | 23.432   | ppbv   | 99       |
| 55) Chlorobenzene              | 10.956 | 112   | 2565633  | 24.109   | ppbv   | 99       |
| 56) Ethylbenzene               | 11.038 | 91    | 3457430  | 21.908   | ppbv   | 99       |
| 71) 1,3-Dichlorobenzene        | 13.635 | 146   | 2035997  | 22.255   | ppbv   | 99       |
| 72) 1,4-Dichlorobenzene        | 13.732 | 146   | 2133316  | 23.491   | ppbv   | 100      |
| 75) 1,2-Dichlorobenzene        | 14.109 | 146   | 1637987  | 23.472   | ppbv   | 100      |
| 77) 1,2,4-Trichlorobenzene     | 15.263 | 180   | 1059664  | 22.060   | ppbv   | 100      |
| 82) Vinyl Chloride(sim)        | 1.728  | 62    | 704306   | 21.868   | ppbv   | 100      |
| 86) Carbon Tetrachloride(sim)  | 5.795  | 117   | 1837035  | 28.420   | ppbv   | 100      |
| 87) 1,1-Dichloroethene(sim)    | 2.670  | 61    | 949554   | 20.935   | ppbv   | 99       |
| 91) Cis-1,2-Dichloroethene...  | 5.136  | 61    | 1082083  | 22.717   | ppbv   | 100      |
| 97) Trichloroethene(sim)       | 7.299  | 130   | 1303054  | 22.049   | ppbv   | 100      |
| 103) Tetrachloroethene(sim)    | 9.622  | 166   | 1761859  | 21.851   | ppbv   | 99       |
| 113) 1,4-Dichlorobenzene(sim)  | 13.732 | 146   | 2135261  | 22.607   | ppbv   | 100      |
| 118) 1,2,4-Trichlorobenzene... | 15.261 | 180   | 1157749  | 19.793   | ppbv   | 100      |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_12.D  
 Acq On : 11 Jul 2020 12:53 am  
 Operator : Keith  
 Client ID : ICAL 25  
 Lab ID : 25  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 13 10:01:01 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 10:00:42 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_13.D  
 Acq On : 11 Jul 2020 1:33 am  
 Operator : Keith  
 Client ID : ICAL 40  
 Lab ID : 40  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 13 10:01:45 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 10:01:26 2020  
 Response via : Initial Calibration

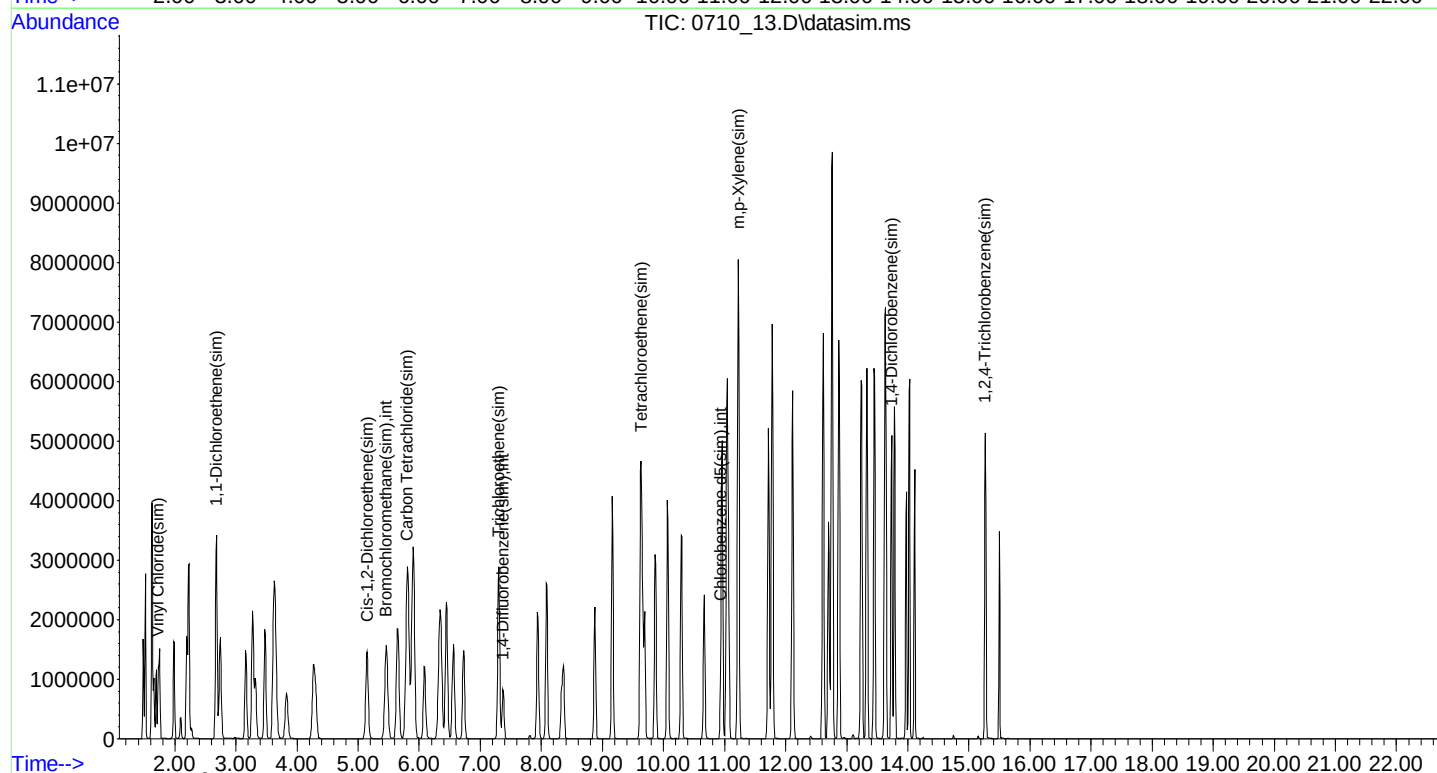
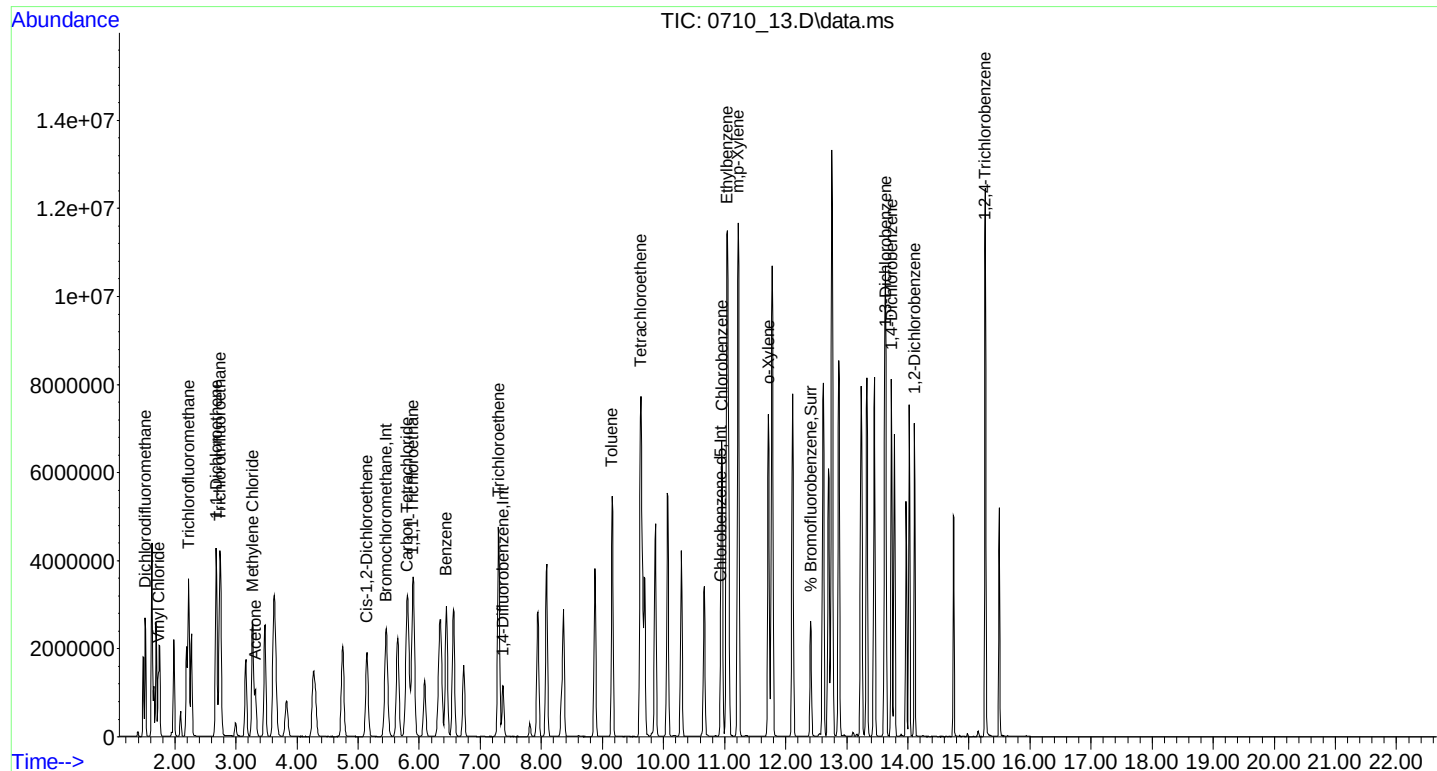
| Compound                       | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards             |        |       |          |          |       |          |
| 1) Bromochloromethane          | 5.453  | 130   | 359125   | 10.000   | ng    | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.374  | 114   | 1243232  | 10.000   | ng    | 0.00     |
| 53) Chlorobenzene-d5           | 10.935 | 82    | 593593   | 10.000   | ng    | 0.00     |
| 80) Bromochloromethane(sim)    | 5.456  | 130   | 354296   | 10.000   | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)   | 7.370  | 114   | 1353137  | 10.000   | ng    | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.938 | 82    | 628635   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds    |        |       |          |          |       |          |
| 62) % Bromofluorobenzene       | 12.408 | 95    | 890470   | 10.517   | ppbv  | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =     | 105.20%  |
| Target Compounds               |        |       |          |          |       |          |
|                                |        |       |          |          |       | Qvalue   |
| 3) Dichlorodifluoromethane     | 1.512  | 85    | 1877893  | 29.846   | ppbv  | 100      |
| 6) Vinyl Chloride              | 1.732  | 62    | 1051868  | 35.481   | ppbv  | 99       |
| 12) Acetone                    | 3.320  | 43    | 1711428  | 37.464   | ppbv  | 100      |
| 13) Trichlorofluoromethane     | 2.225  | 101   | 2997309  | 35.678   | ppbv  | 100      |
| 16) 1,1-Dichloroethene         | 2.677  | 61    | 1466671  | 35.743   | ppbv  | 100      |
| 17) Methylene Chloride         | 3.272  | 49    | 1190158  | 34.729   | ppbv  | 100      |
| 21) Trichlorotrifluoroethane   | 2.738  | 101   | 2190228  | 36.358   | ppbv  | 100      |
| 26) Cis-1,2-Dichloroethene     | 5.143  | 61    | 1735039  | 37.680   | ppbv  | 100      |
| 32) 1,1,1-Trichloroethane      | 5.893  | 97    | 2753179  | 37.013   | ppbv  | 100      |
| 33) Benzene                    | 6.443  | 78    | 3713456  | 35.510   | ppbv  | 100      |
| 34) Carbon Tetrachloride       | 5.799  | 117   | 2968360  | 42.399   | ppbv  | 100      |
| 39) Trichloroethene            | 7.299  | 130   | 2053729  | 37.134   | ppbv  | 100      |
| 48) Toluene                    | 9.160  | 91    | 4769173  | 35.425   | ppbv  | 100      |
| 52) Tetrachloroethene          | 9.629  | 166   | 2715265  | 35.355   | ppbv  | 100      |
| 55) Chlorobenzene              | 10.956 | 112   | 3939081  | 36.760   | ppbv  | 100      |
| 56) Ethylbenzene               | 11.038 | 91    | 4975338  | 31.309   | ppbv  | 99       |
| 57) m,p-Xylene                 | 11.223 | 91    | 8167734  | 79.272   | ppbv  | 99       |
| 61) o-Xylene                   | 11.717 | 91    | 4955620  | 38.317   | ppbv  | 99       |
| 71) 1,3-Dichlorobenzene        | 13.641 | 146   | 2996788  | 32.531   | ppbv  | 100      |
| 72) 1,4-Dichlorobenzene        | 13.732 | 146   | 3259740  | 35.648   | ppbv  | 99       |
| 75) 1,2-Dichlorobenzene        | 14.109 | 146   | 2481905  | 35.320   | ppbv  | 100      |
| 77) 1,2,4-Trichlorobenzene     | 15.263 | 180   | 1527444  | 31.580   | ppbv  | 100      |
| 82) Vinyl Chloride(sim)        | 1.728  | 62    | 1105764  | 33.058   | ppbv  | 100      |
| 86) Carbon Tetrachloride(sim)  | 5.802  | 117   | 3024665  | 45.054   | ppbv  | 100      |
| 87) 1,1-Dichloroethene(sim)    | 2.677  | 61    | 1466671  | 31.135   | ppbv  | 100      |
| 91) Cis-1,2-Dichloroethene...  | 5.143  | 61    | 1737127  | 35.114   | ppbv  | 99       |
| 97) Trichloroethene(sim)       | 7.299  | 130   | 2053254  | 33.889   | ppbv  | 100      |
| 103) Tetrachloroethene(sim)    | 9.629  | 166   | 2715118  | 32.846   | ppbv  | 100      |
| 113) 1,4-Dichlorobenzene(sim)  | 13.732 | 146   | 3259740  | 34.220   | ppbv  | 99       |
| 118) 1,2,4-Trichlorobenzene... | 15.266 | 180   | 1648531  | 27.945   | ppbv  | 100      |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_13.D  
 Acq On : 11 Jul 2020 1:33 am  
 Operator : Keith  
 Client ID : ICAL 40  
 Lab ID : 40  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 13 10:01:45 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 10:01:26 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_15.D  
 Acq On : 11 Jul 2020 2:38 am  
 Operator : Keith  
 Client ID : ICAL 1  
 Lab ID : 1ppb  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 13 10:22:00 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 10:21:18 2020  
 Response via : Initial Calibration

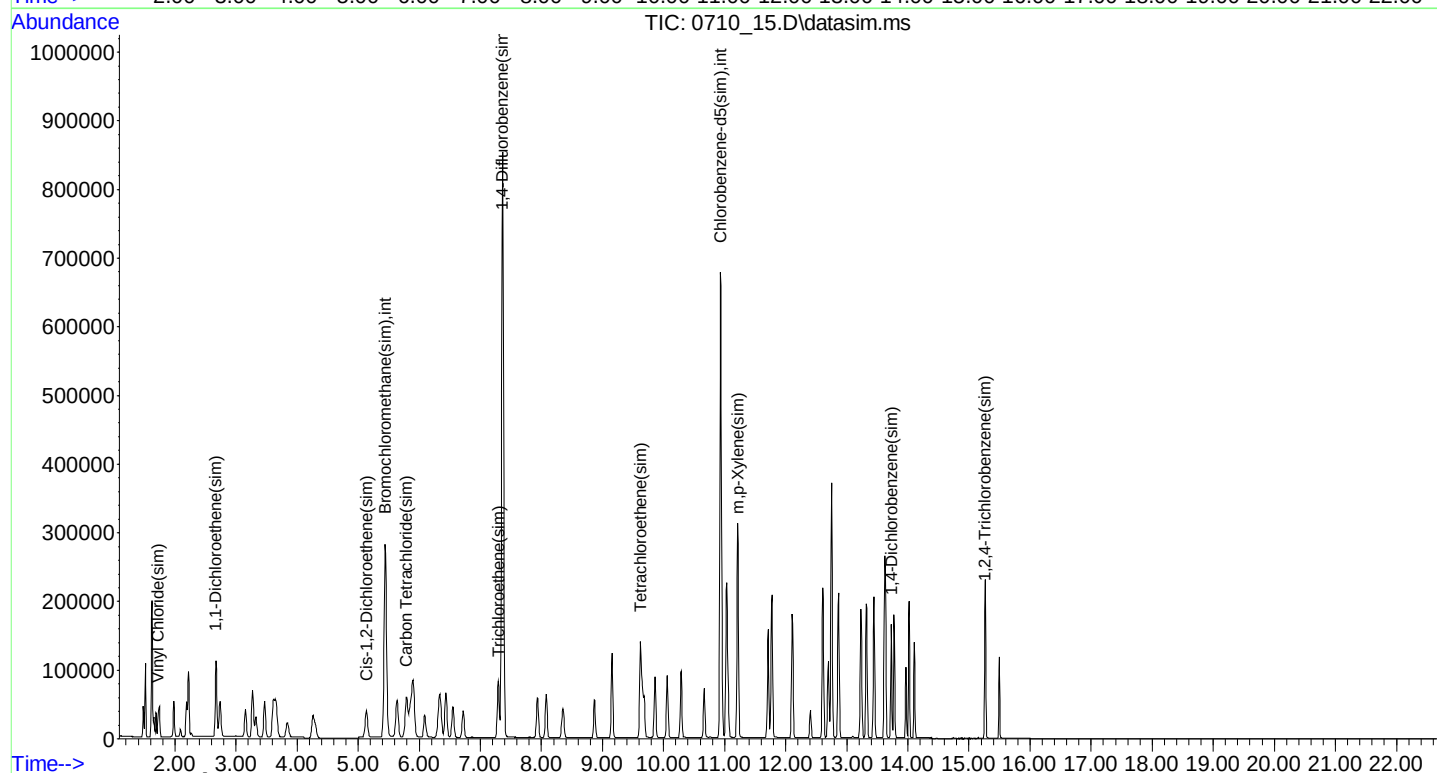
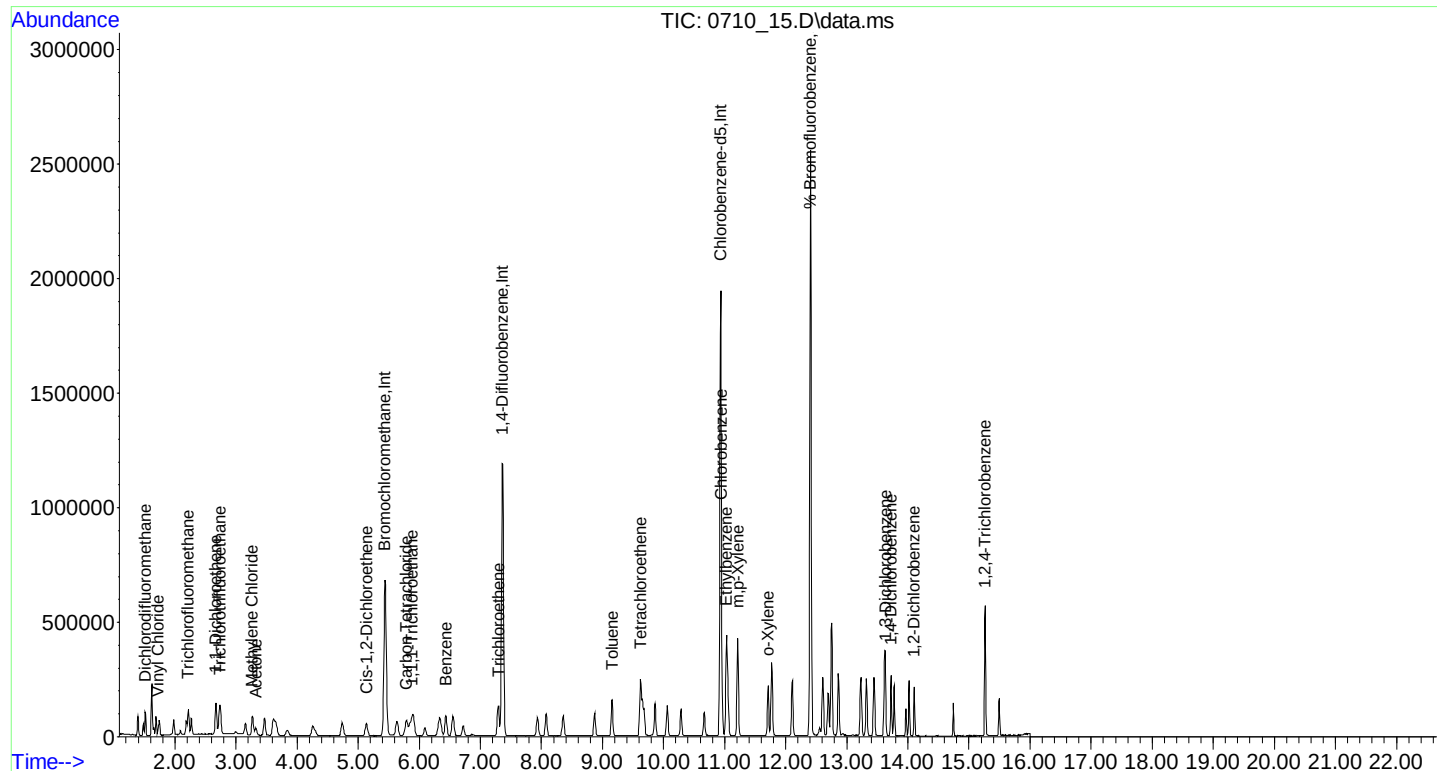
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 5.439  | 130   | 365177   | 10.000   | ng     | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.367  | 114   | 1282474  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.935 | 82    | 611724   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 5.442  | 130   | 359321   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)   | 7.363  | 114   | 1398114  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.931 | 82    | 656476   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 62) % Bromofluorobenzene       | 12.402 | 95    | 866562   | 9.956    | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =      | 99.60%   |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane     | 1.512  | 85    | 72439    | 1.132    | ppbv   | 99       |
| 6) Vinyl Chloride              | 1.725  | 62    | 30714    | 1.019    | ppbv   | 81       |
| 12) Acetone                    | 3.327  | 43    | 44186    | 0.951    | ppbv#  | 89       |
| 13) Trichlorofluoromethane     | 2.218  | 101   | 88291    | 1.034    | ppbv#  | 86       |
| 16) 1,1-Dichloroethene         | 2.670  | 61    | 44498    | 1.066    | ppbv   | 96       |
| 17) Methylene Chloride         | 3.265  | 49    | 36791    | 1.056    | ppbv   | 98       |
| 21) Trichlorotrifluoroethane   | 2.738  | 101   | 64062    | 1.046    | ppbv   | 93       |
| 26) Cis-1,2-Dichloroethene     | 5.136  | 61    | 46497    | 0.993    | ppbv   | 90       |
| 32) 1,1,1-Trichloroethane      | 5.886  | 97    | 74448    | 0.984    | ppbv   | 92       |
| 33) Benzene                    | 6.436  | 78    | 104831   | 0.986    | ppbv#  | 89       |
| 34) Carbon Tetrachloride       | 5.792  | 117   | 71559    | 1.005    | ppbv   | 93       |
| 39) Trichloroethene            | 7.299  | 130   | 56138    | 0.984    | ppbv   | 97       |
| 48) Toluene                    | 9.160  | 91    | 135855   | 0.978    | ppbv   | 98       |
| 52) Tetrachloroethene          | 9.622  | 166   | 79151    | 0.999    | ppbv   | 97       |
| 55) Chlorobenzene              | 10.949 | 112   | 109244   | 0.989    | ppbv#  | 58       |
| 56) Ethylbenzene               | 11.031 | 91    | 166620   | 1.017    | ppbv   | 99       |
| 57) m,p-Xylene                 | 11.217 | 91    | 270170   | 2.118    | ppbv   | 97       |
| 61) o-Xylene                   | 11.711 | 91    | 139323   | 1.007    | ppbv   | 96       |
| 71) 1,3-Dichlorobenzene        | 13.635 | 146   | 98893    | 1.042    | ppbv   | 97       |
| 72) 1,4-Dichlorobenzene        | 13.726 | 146   | 96087    | 1.020    | ppbv   | 97       |
| 75) 1,2-Dichlorobenzene        | 14.102 | 146   | 73202    | 1.011    | ppbv   | 98       |
| 77) 1,2,4-Trichlorobenzene     | 15.261 | 180   | 55964    | 1.123    | ppbv   | 99       |
| 82) Vinyl Chloride(sim)        | 1.728  | 62    | 32398    | 0.955    | ppbv   | 99       |
| 86) Carbon Tetrachloride(sim)  | 5.795  | 117   | 72632    | 1.067    | ppbv   | 99       |
| 87) 1,1-Dichloroethene(sim)    | 2.670  | 61    | 44498    | 0.931    | ppbv   | 96       |
| 91) Cis-1,2-Dichloroethene...  | 5.136  | 61    | 46497    | 0.927    | ppbv   | 95       |
| 97) Trichloroethene(sim)       | 7.299  | 130   | 56138    | 0.897    | ppbv   | 92       |
| 103) Tetrachloroethene(sim)    | 9.622  | 166   | 79047    | 0.925    | ppbv   | 97       |
| 107) m,p-Xylene(sim)           | 11.217 | 91    | 270211   | 1.885    | ppbv#  | 97       |
| 113) 1,4-Dichlorobenzene(sim)  | 13.726 | 146   | 96087    | 0.966    | ppbv   | 97       |
| 118) 1,2,4-Trichlorobenzene... | 15.259 | 180   | 61242    | 0.994    | ppbv   | 99       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_15.D  
 Acq On : 11 Jul 2020 2:38 am  
 Operator : Keith  
 Client ID : ICAL 1  
 Lab ID : 1ppb  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 13 10:22:00 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 10:21:18 2020  
 Response via : Initial Calibration



## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_16.D  
 Acq On : 11 Jul 2020 3:12 am  
 Operator : Keith  
 Client ID : ICAL 0.2  
 Lab ID : 0.2ppb  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 13 10:06:23 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 10:05:58 2020  
 Response via : Initial Calibration

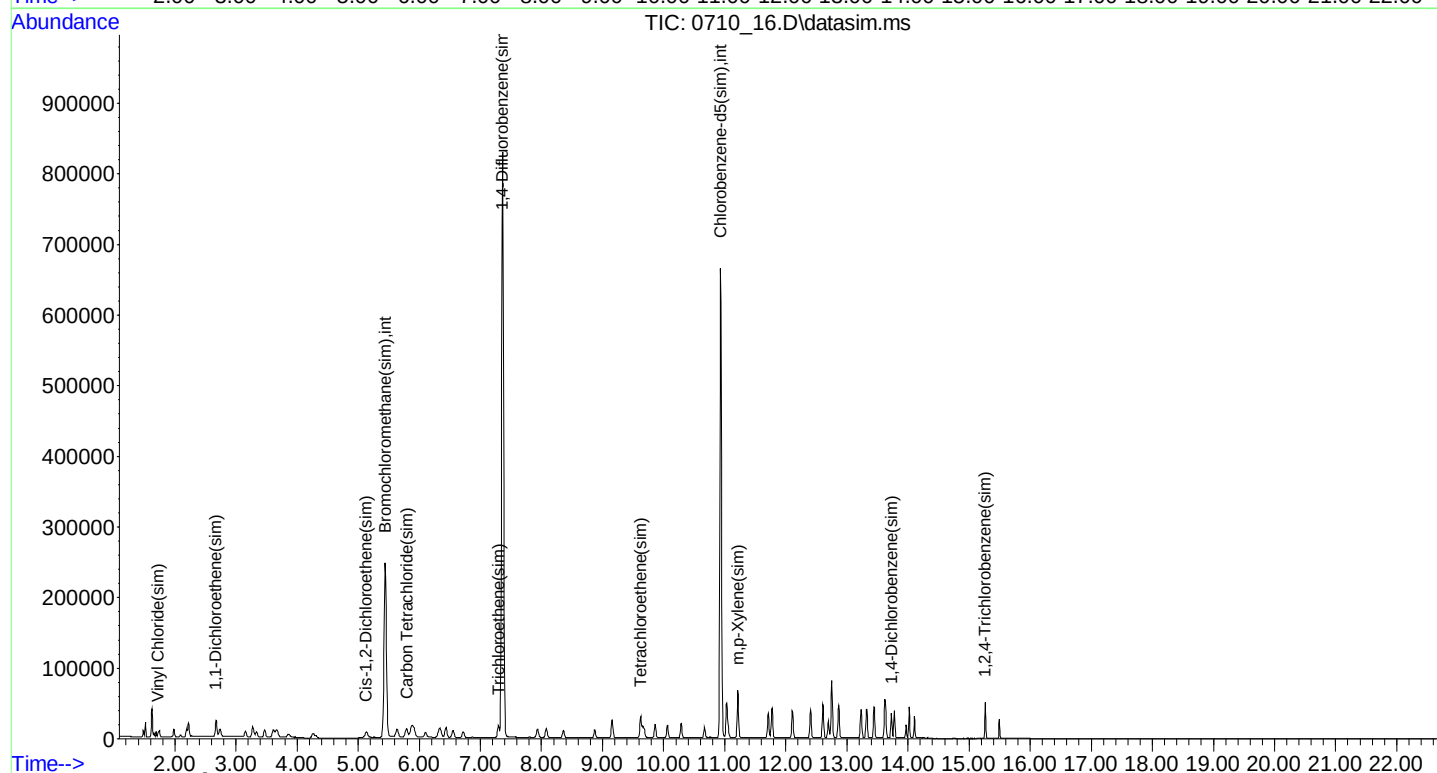
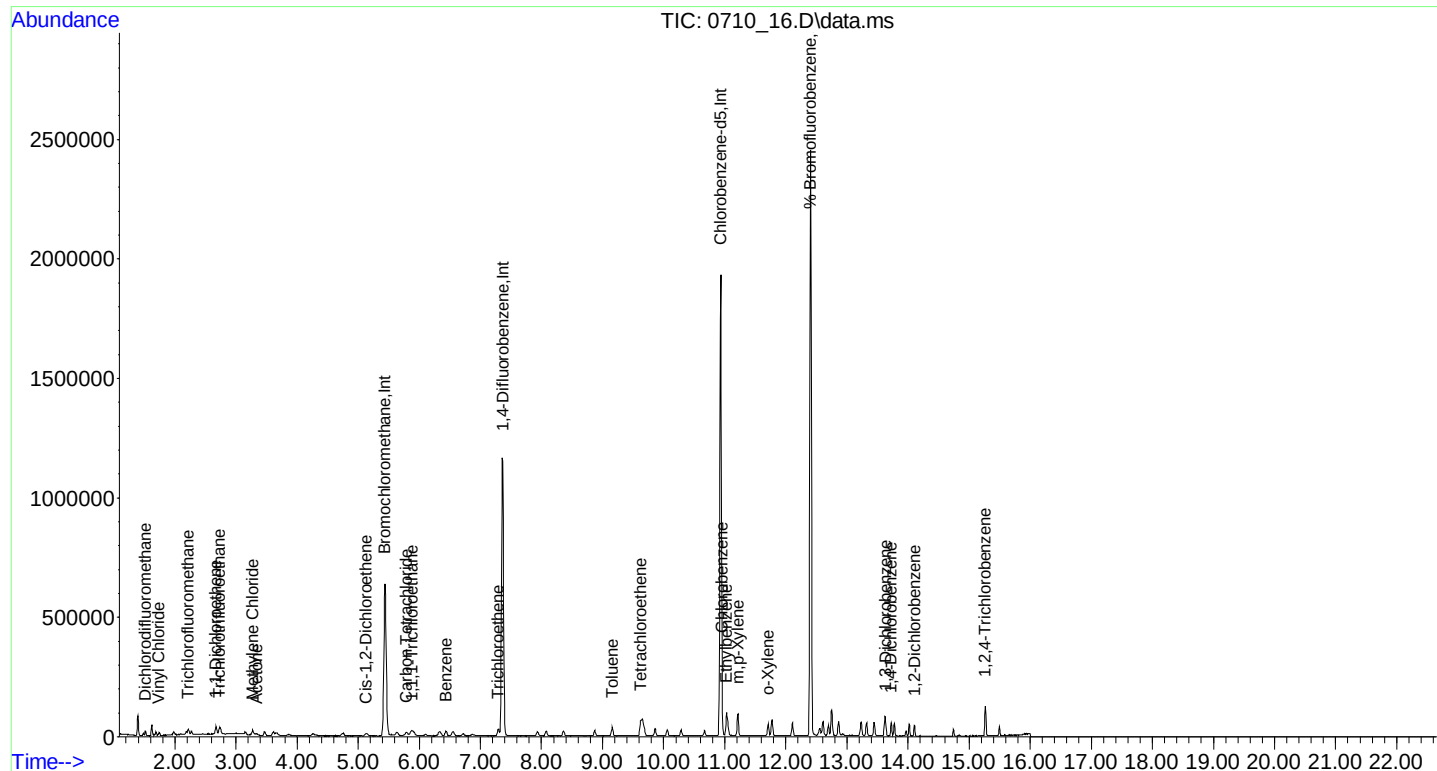
| Compound                       | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards             |        |       |          |          |       |          |
| 1) Bromochloromethane          | 5.439  | 130   | 359594   | 10.000   | ng    | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.367  | 114   | 1257636  | 10.000   | ng    | 0.00     |
| 53) Chlorobenzene-d5           | 10.935 | 82    | 614713   | 10.000   | ng    | 0.00     |
| 80) Bromochloromethane(sim)    | 5.442  | 130   | 353670   | 10.000   | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)   | 7.363  | 114   | 1370616  | 10.000   | ng    | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.931 | 82    | 651565   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds    |        |       |          |          |       |          |
| 62) % Bromofluorobenzene       | 12.402 | 95    | 857417   | 9.731    | ppbv  | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =     | 97.30%   |
| Target Compounds               |        |       |          |          |       |          |
|                                |        |       |          |          |       | Qvalue   |
| 3) Dichlorodifluoromethane     | 1.512  | 85    | 14355    | 0.228    | ppbv  | 97       |
| 6) Vinyl Chloride              | 1.732  | 62    | 6210     | 0.209    | ppbv  | 93       |
| 12) Acetone                    | 3.333  | 43    | 12902    | 0.282    | ppbv  | 100      |
| 13) Trichlorofluoromethane     | 2.218  | 101   | 17971    | 0.214    | ppbv  | 96       |
| 16) 1,1-Dichloroethene         | 2.670  | 61    | 9325     | 0.227    | ppbv  | 95       |
| 17) Methylene Chloride         | 3.272  | 49    | 9336     | 0.272    | ppbv  | 97       |
| 21) Trichlorotrifluoroethane   | 2.731  | 101   | 13635    | 0.226    | ppbv  | 97       |
| 26) Cis-1,2-Dichloroethene     | 5.129  | 61    | 9415     | 0.204    | ppbv  | 94       |
| 32) 1,1,1-Trichloroethane      | 5.886  | 97    | 15704    | 0.211    | ppbv  | 98       |
| 33) Benzene                    | 6.436  | 78    | 22821    | 0.218    | ppbv  | 99       |
| 34) Carbon Tetrachloride       | 5.792  | 117   | 14663    | 0.209    | ppbv  | 98       |
| 39) Trichloroethene            | 7.292  | 130   | 11953    | 0.214    | ppbv  | 99       |
| 48) Toluene                    | 9.160  | 91    | 29075    | 0.213    | ppbv  | 100      |
| 52) Tetrachloroethene          | 9.622  | 166   | 16718    | 0.215    | ppbv  | 98       |
| 55) Chlorobenzene              | 10.956 | 112   | 22729    | 0.205    | ppbv# | 76       |
| 56) Ethylbenzene               | 11.031 | 91    | 36403    | 0.221    | ppbv  | 99       |
| 57) m, p-Xylene                | 11.217 | 91    | 57805    | 0.426    | ppbv  | 99       |
| 61) o-Xylene                   | 11.711 | 91    | 30406    | 0.214    | ppbv  | 99       |
| 71) 1,3-Dichlorobenzene        | 13.635 | 146   | 20800    | 0.218    | ppbv  | 98       |
| 72) 1,4-Dichlorobenzene        | 13.726 | 146   | 20684    | 0.218    | ppbv  | 99       |
| 75) 1,2-Dichlorobenzene        | 14.109 | 146   | 16203    | 0.223    | ppbv  | 98       |
| 77) 1,2,4-Trichlorobenzene     | 15.263 | 180   | 12254    | 0.245    | ppbv  | 98       |
| 82) Vinyl Chloride(sim)        | 1.728  | 62    | 6688     | 0.200    | ppbv  | 100      |
| 86) Carbon Tetrachloride(sim)  | 5.795  | 117   | 14727    | 0.220    | ppbv  | 99       |
| 87) 1,1-Dichloroethene(sim)    | 2.670  | 61    | 9325     | 0.198    | ppbv  | 97       |
| 91) Cis-1,2-Dichloroethene...  | 5.129  | 61    | 9415     | 0.191    | ppbv  | 94       |
| 97) Trichloroethene(sim)       | 7.292  | 130   | 11953    | 0.195    | ppbv  | 99       |
| 103) Tetrachloroethene(sim)    | 9.622  | 166   | 16611    | 0.198    | ppbv  | 97       |
| 107) m, p-Xylene(sim)          | 11.217 | 91    | 57809    | 0.443    | ppbv  | 99       |
| 113) 1,4-Dichlorobenzene(sim)  | 13.726 | 146   | 20499    | 0.208    | ppbv  | 99       |
| 118) 1,2,4-Trichlorobenzene... | 15.261 | 180   | 13523    | 0.221    | ppbv  | 99       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_16.D  
 Acq On : 11 Jul 2020 3:12 am  
 Operator : Keith  
 Client ID : ICAL 0.2  
 Lab ID : 0.2ppb  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 13 10:06:23 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 10:05:58 2020  
 Response via : Initial Calibration





## Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_17.D  
 Acq On : 11 Jul 2020 3:45 am  
 Operator : Keith  
 Client ID : ICAL 10  
 Lab ID : 10ppb  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 13 10:22:14 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 10:21:18 2020  
 Response via : Initial Calibration

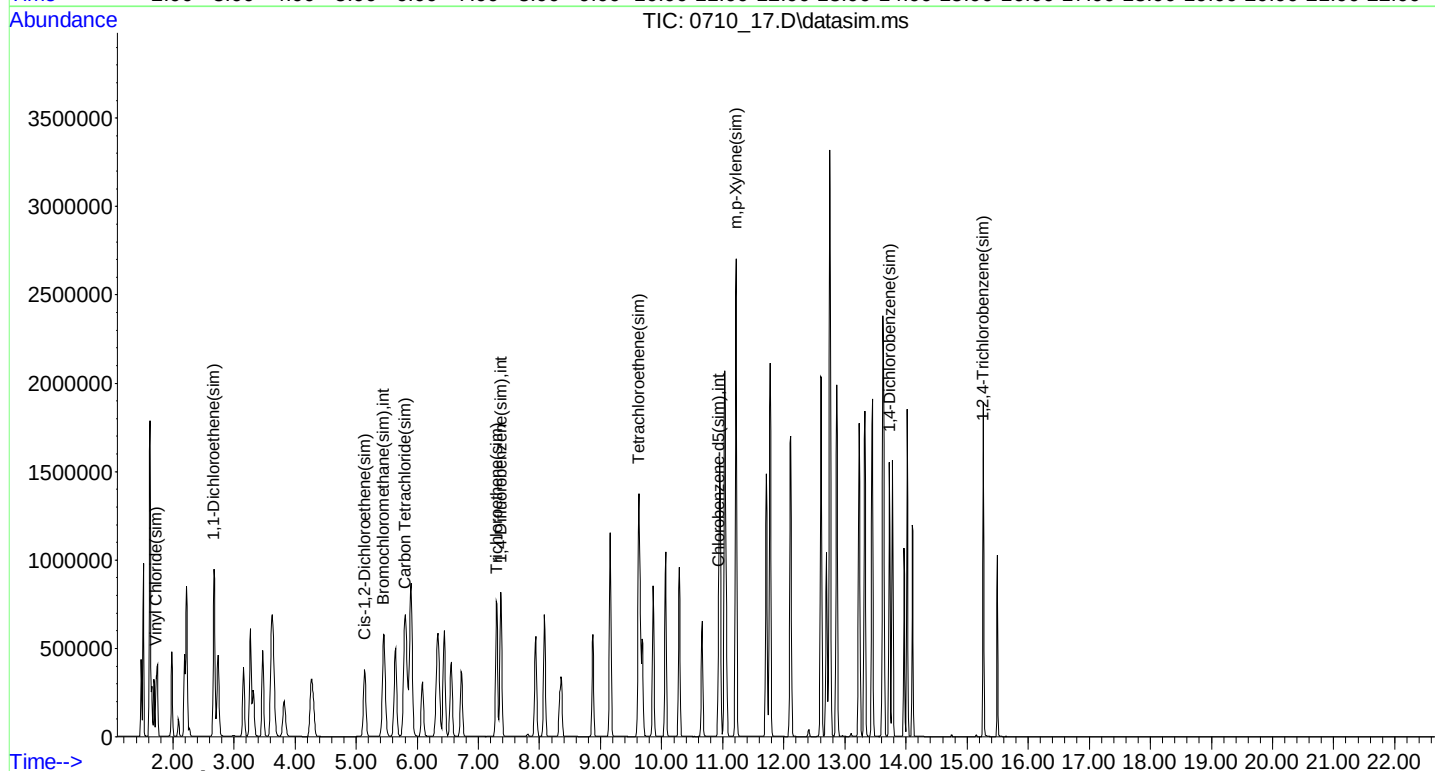
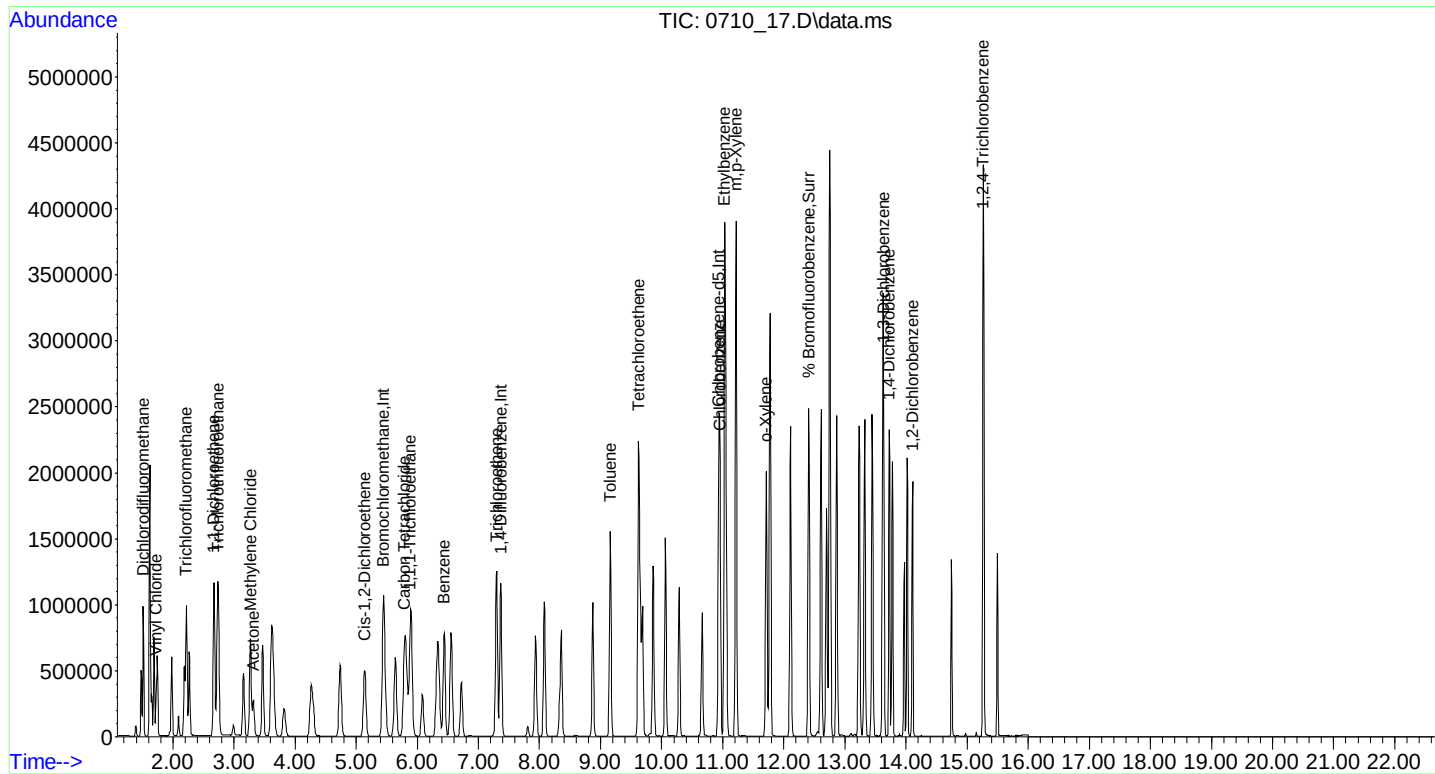
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 5.446  | 130   | 352328   | 10.000   | ng     | 0.00     |
| 36) 1,4-Difluorobenzene        | 7.367  | 114   | 1231387  | 10.000   | ng     | 0.00     |
| 53) Chlorobenzene-d5           | 10.935 | 82    | 589436   | 10.000   | ng     | 0.00     |
| 80) Bromochloromethane(sim)    | 5.449  | 130   | 346614   | 10.000   | ng     | # 0.00   |
| 94) 1,4-Difluorobenzene(sim)   | 7.370  | 114   | 1339727  | 10.000   | ng     | 0.00     |
| 104) Chlorobenzene-d5(sim)     | 10.931 | 82    | 628684   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 62) % Bromofluorobenzene       | 12.408 | 95    | 852084   | 10.160   | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 70 - 130 | Recovery | =      | 101.60%  |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 3) Dichlorodifluoromethane     | 1.512  | 85    | 652577   | 10.572   | ppbv   | 98       |
| 6) Vinyl Chloride              | 1.725  | 62    | 287244   | 9.876    | ppbv   | 81       |
| 12) Acetone                    | 3.320  | 43    | 387208   | 8.640    | ppbv#  | 88       |
| 13) Trichlorofluoromethane     | 2.218  | 101   | 814230   | 9.879    | ppbv#  | 85       |
| 16) 1,1-Dichloroethene         | 2.670  | 61    | 395946   | 9.835    | ppbv   | 96       |
| 17) Methylene Chloride         | 3.272  | 49    | 324410   | 9.649    | ppbv   | 97       |
| 21) Trichlorotrifluoroethane   | 2.738  | 101   | 589812   | 9.980    | ppbv   | 93       |
| 26) Cis-1,2-Dichloroethene     | 5.136  | 61    | 443573   | 9.819    | ppbv   | 91       |
| 32) 1,1,1-Trichloroethane      | 5.886  | 97    | 713438   | 9.776    | ppbv   | 93       |
| 33) Benzene                    | 6.443  | 78    | 956026   | 9.318    | ppbv#  | 88       |
| 34) Carbon Tetrachloride       | 5.792  | 117   | 729134   | 10.616   | ppbv   | 93       |
| 39) Trichloroethene            | 7.299  | 130   | 538853   | 9.837    | ppbv   | 96       |
| 48) Toluene                    | 9.160  | 91    | 1306981  | 9.801    | ppbv   | 98       |
| 52) Tetrachloroethene          | 9.622  | 166   | 747432   | 9.826    | ppbv   | 98       |
| 55) Chlorobenzene              | 10.956 | 112   | 1051374  | 9.881    | ppbv#  | 52       |
| 56) Ethylbenzene               | 11.031 | 91    | 1546718  | 9.802    | ppbv   | 99       |
| 57) m,p-Xylene                 | 11.217 | 91    | 2426655  | 19.744   | ppbv   | 98       |
| 61) o-Xylene                   | 11.711 | 91    | 1321289  | 9.909    | ppbv   | 96       |
| 71) 1,3-Dichlorobenzene        | 13.635 | 146   | 897669   | 9.813    | ppbv   | 98       |
| 72) 1,4-Dichlorobenzene        | 13.726 | 146   | 892184   | 9.826    | ppbv   | 97       |
| 75) 1,2-Dichlorobenzene        | 14.109 | 146   | 677690   | 9.712    | ppbv   | 98       |
| 77) 1,2,4-Trichlorobenzene     | 15.263 | 180   | 468457   | 9.754    | ppbv   | 99       |
| 82) Vinyl Chloride(sim)        | 1.728  | 62    | 301723   | 9.220    | ppbv   | 100      |
| 86) Carbon Tetrachloride(sim)  | 5.795  | 117   | 748059   | 11.390   | ppbv   | 99       |
| 87) 1,1-Dichloroethene(sim)    | 2.670  | 61    | 395946   | 8.591    | ppbv   | 96       |
| 91) Cis-1,2-Dichloroethene...  | 5.136  | 61    | 443573   | 9.165    | ppbv   | 96       |
| 97) Trichloroethene(sim)       | 7.299  | 130   | 538619   | 8.979    | ppbv   | 92       |
| 103) Tetrachloroethene(sim)    | 9.622  | 166   | 746799   | 9.125    | ppbv   | 98       |
| 107) m,p-Xylene(sim)           | 11.217 | 91    | 2428408  | 17.690   | ppbv#  | 97       |
| 113) 1,4-Dichlorobenzene(sim)  | 13.726 | 146   | 892184   | 9.365    | ppbv   | 97       |
| 118) 1,2,4-Trichlorobenzene... | 15.261 | 180   | 512884   | 8.693    | ppbv   | 99       |

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

# Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\10\  
 Data File : 0710\_17.D  
 Acq On : 11 Jul 2020 3:45 am  
 Operator : Keith  
 Client ID : ICAL 10  
 Lab ID : 10ppb  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 13 10:22:14 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 10:21:18 2020  
 Response via : Initial Calibration



7A  
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: \_\_\_\_\_

Lab Code: Phoenix Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: GCG31864

Instrument: CHEM24 Calibration Date: 07/12/20 Time: 22:02

Lab File Id: 0712\_02.D Init. Calib. Date(s): 07/10/20 07/11/20

Heated Purge (Y/N): Y Init. Calib. Times: 20:09 03:45

GC Column: RTX-VMS Method File: 24AIR\_0710\_wal.M

| COMPOUND                    | RRF   | RRF1  | RRF MIN | %D    | % D LIMITS |
|-----------------------------|-------|-------|---------|-------|------------|
| Dichlorodifluoromethane     | 1.752 | 2.147 |         | -22.5 | 30         |
| Vinyl Chloride              | 0.826 | 0.871 |         | -5.4  | 30         |
| Acetone                     | 1.272 | 1.539 |         | -21.0 | 30         |
| Trichlorofluoromethane      | 2.339 | 2.629 |         | -12.4 | 30         |
| 1,1-Dichloroethene          | 1.143 | 1.252 |         | -9.5  | 30         |
| Methylene Chloride          | 0.954 | 1.069 |         | -12.1 | 30         |
| Trichlorotrifluoroethane    | 1.677 | 1.887 |         | -12.5 | 30         |
| Cis-1,2-Dichloroethene      | 1.282 | 1.315 |         | -2.6  | 30         |
| 1,1,1-Trichloroethane       | 2.071 | 2.091 |         | -1.0  | 30         |
| Benzene                     | 2.912 | 2.829 |         | 2.9   | 30         |
| Carbon Tetrachloride        | 1.949 | 1.984 |         | -1.8  | 30         |
| Trichloroethene             | 0.445 | 0.457 |         | -2.7  | 30         |
| Toluene                     | 1.083 | 1.085 |         | -0.2  | 30         |
| Tetrachloroethene           | 0.618 | 0.643 |         | -4.0  | 30         |
| Chlorobenzene               | 1.805 | 1.856 |         | -2.8  | 30         |
| Ethylbenzene                | 2.677 | 2.879 |         | -7.5  | 30         |
| m,p-Xylene                  | 2.085 | 1.811 |         | 13.1  | 30         |
| o-Xylene                    | 2.262 | 2.352 |         | -4.0  | 30         |
| 1,3-Dichlorobenzene         | 1.552 | 1.654 |         | -6.6  | 30         |
| 1,4-Dichlorobenzene         | 1.540 | 1.570 |         | -1.9  | 30         |
| 1,2-Dichlorobenzene         | 1.184 | 1.242 |         | -4.9  | 30         |
| 1,2,4-Trichlorobenzene      | 0.815 | 0.842 |         | -3.3  | 30         |
| Vinyl Chloride(sim)         | 0.944 | 0.892 |         | 5.5   | 30         |
| Carbon Tetrachloride(sim)   | 1.895 | 2.050 |         | -8.2  | 30         |
| 1,1-Dichloroethene(sim)     | 1.330 | 1.283 |         | 3.5   | 30         |
| Cis-1,2-Dichloroethene(sim) | 1.396 | 1.342 |         | 3.9   | 30         |
| Trichloroethene(sim)        | 0.448 | 0.459 |         | -2.5  | 30         |
| Tetrachloroethene(sim)      | 0.611 | 0.632 |         | -3.4  | 30         |
| m,p-Xylene(sim)             | 2.184 | 2.429 |         | -11.2 | 30         |
| 1,4-Dichlorobenzene(sim)    | 1.515 | 1.697 |         | -12.0 | 30         |
| % Bromofluorobenzene        | 1.423 | 1.400 |         | 1.6   | 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.

# Evaluate Continuing Calibration Report

Data Path : H:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_02.D  
 Acq On : 12 Jul 2020 10:02 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
 Lab ID : 1ppb cc - 1ppb cc  
 ALS Vial : 134 Sample Multiplier: 1

Quant Time: Oct 13 15:32:48 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 10:21:18 2020  
 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% |
|---------|-----------------------------|-------|-------|-------|-------|
| 1 Int   | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 84    |
| 2       | Dichlorodifluoromethane     | 1.752 | 2.147 | -22.5 |       |
| 3       | Vinyl Chloride              | 0.826 | 0.871 | -5.4  |       |
| 4       | Acetone                     | 1.272 | 1.539 | -21.0 |       |
| 5       | Trichlorofluoromethane      | 2.339 | 2.629 | -12.4 |       |
| 6       | 1,1-Dichloroethene          | 1.143 | 1.252 | -9.5  |       |
| 7       | Methylene Chloride          | 0.954 | 1.069 | -12.1 |       |
| 8       | Trichlorotrifluoroethane    | 1.677 | 1.887 | -12.5 |       |
| 10      | Cis-1,2-Dichloroethene      | 1.282 | 1.315 | -2.6  |       |
| 12      | 1,1,1-Trichloroethane       | 2.071 | 2.091 | -1.0  |       |
| 13      | Benzene                     | 2.912 | 2.829 | 2.9   |       |
| 14      | Carbon Tetrachloride        | 1.949 | 1.984 | -1.8  |       |
| 15 Int  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 82    |
| 17      | Trichloroethene             | 0.445 | 0.457 | -2.7  |       |
| 18      | Toluene                     | 1.083 | 1.085 | -0.2  |       |
| 19      | Tetrachloroethene           | 0.618 | 0.643 | -4.0  |       |
| 20 Int  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 82    |
| 21      | Chlorobenzene               | 1.805 | 1.856 | -2.8  |       |
| 22      | Ethylbenzene                | 2.677 | 2.879 | -7.5  |       |
| 23      | m,p-Xylene                  | 2.085 | 1.811 | 13.1  |       |
| 24      | o-Xylene                    | 2.262 | 2.352 | -4.0  |       |
| 25 Surr | % Bromofluorobenzene        | 1.423 | 1.400 | 1.6   |       |
| 26      | 1,3-Dichlorobenzene         | 1.552 | 1.654 | -6.6  |       |
| 27      | 1,4-Dichlorobenzene         | 1.540 | 1.570 | -1.9  |       |
| 28      | 1,2-Dichlorobenzene         | 1.184 | 1.242 | -4.9  |       |
| 29      | 1,2,4-Trichlorobenzene      | 0.815 | 0.842 | -3.3  |       |
| 30 int  | Bromochloromethane(sim)     | 1.000 | 1.000 | 0.0   | 83    |
| 31      | Vinyl Chloride(sim)         | 0.944 | 0.892 | 5.5   |       |
| 34      | Carbon Tetrachloride(sim)   | 1.895 | 2.050 | -8.2  |       |
| 35      | 1,1-Dichloroethene(sim)     | 1.330 | 1.283 | 3.5   |       |
| 39      | Cis-1,2-Dichloroethene(sim) | 1.396 | 1.342 | 3.9   |       |
| 41 int  | 1,4-Difluorobenzene(sim)    | 1.000 | 1.000 | 0.0   | 75    |
| 44      | Trichloroethene(sim)        | 0.448 | 0.459 | -2.5  |       |
| 46      | Tetrachloroethene(sim)      | 0.611 | 0.632 | -3.4  |       |
| 47 int  | Chlorobenzene-d5(sim)       | 1.000 | 1.000 | 0.0   | 76    |
| 48      | m,p-Xylene(sim)             | 2.184 | 2.429 | -11.2 |       |
| 50      | 1,4-Dichlorobenzene(sim)    | 1.515 | 1.697 | -12.0 |       |

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)  
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_02.D  
 Acq On : 12 Jul 2020 10:02 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
 Lab ID : 1ppb cc - 1ppb cc  
 ALS Vial : 134 Sample Multiplier: 1

Quant Time: Oct 13 15:32:48 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jul 13 10:21:18 2020  
 Response via : Initial Calibration

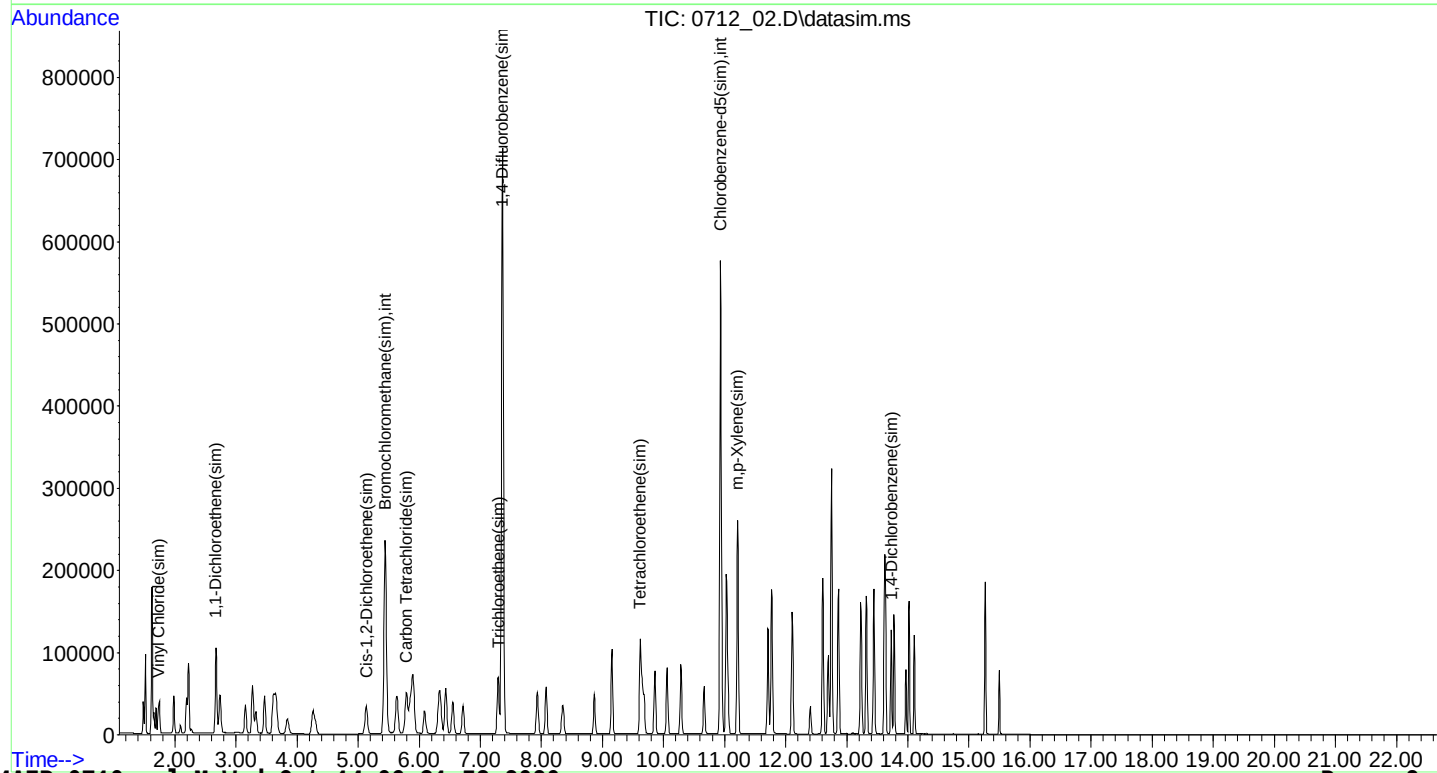
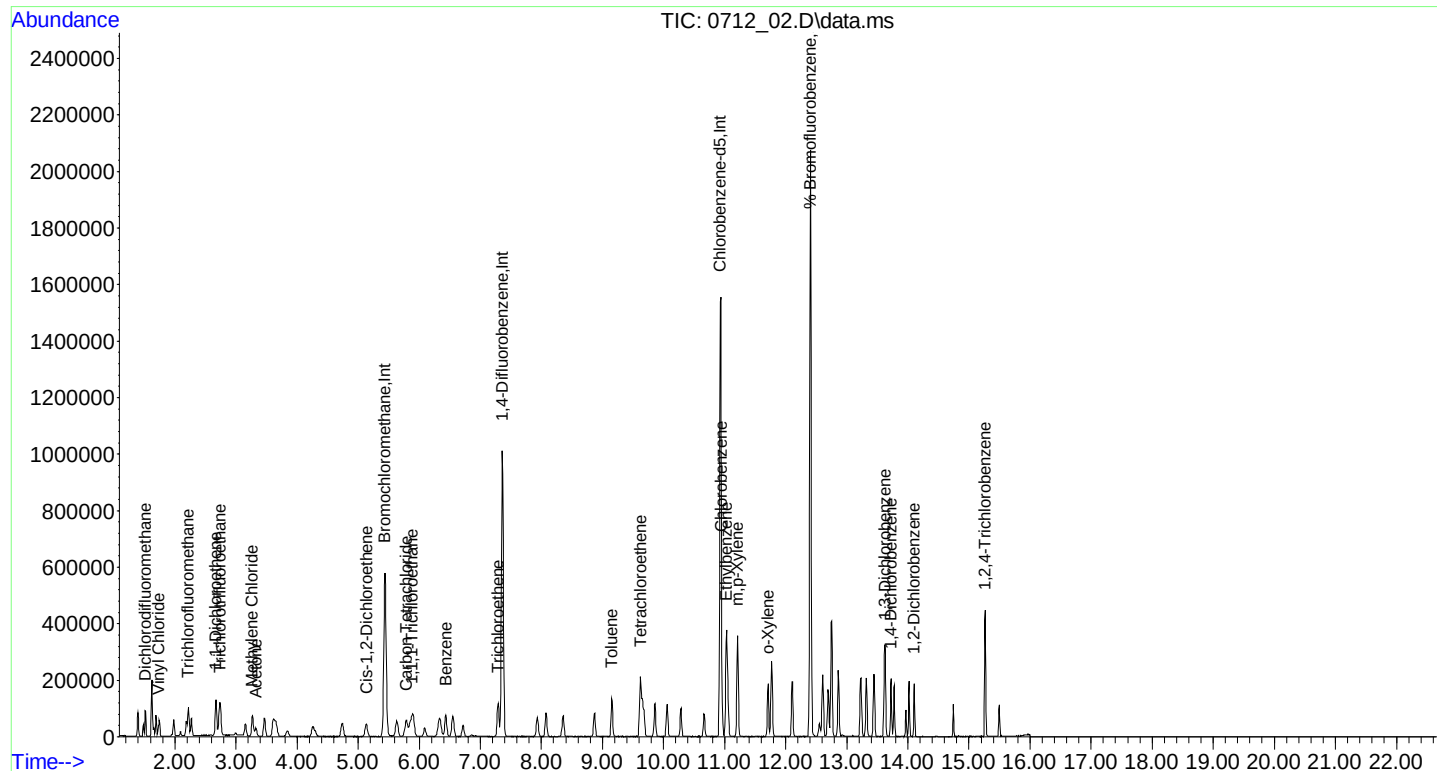
| Compound                      | R.T.   | QIon           | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|--------|--------|----------|
| Internal Standards            |        |                |          |        |        |          |
| 1) Bromochloromethane         | 5.439  | 130            | 305372   | 10.000 | ng     | 0.00     |
| 15) 1,4-Difluorobenzene       | 7.361  | 114            | 1051592  | 10.000 | ng     | 0.00     |
| 20) Chlorobenzene-d5          | 10.929 | 82             | 501122   | 10.000 | ng     | 0.00     |
| 30) Bromochloromethane(sim)   | 5.442  | 130            | 298101   | 10.000 | ng     | # 0.00   |
| 41) 1,4-Difluorobenzene(sim)  | 7.361  | 114            | 1051592  | 10.000 | ng     | 0.00     |
| 47) Chlorobenzene-d5(sim)     | 10.929 | 82             | 501122   | 10.000 | ng     | 0.00     |
| System Monitoring Compounds   |        |                |          |        |        |          |
| 25) % Bromofluorobenzene      | 12.402 | 95             | 701805   | 9.843  | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range 70 - 130 | Recovery | =      | 98.40% |          |
| Target Compounds              |        |                |          |        |        |          |
|                               |        |                |          |        |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.513  | 85             | 65554    | 1.225  | ppbv   | 99       |
| 3) Vinyl Chloride             | 1.732  | 62             | 26591    | 1.055  | ppbv   | 82       |
| 4) Acetone                    | 3.327  | 43             | 47005    | 1.210  | ppbv   | 96       |
| 5) Trichlorofluoromethane     | 2.218  | 101            | 80287    | 1.124  | ppbv#  | 85       |
| 6) 1,1-Dichloroethene         | 2.670  | 61             | 38243    | 1.096  | ppbv   | 95       |
| 7) Methylene Chloride         | 3.265  | 49             | 32654    | 1.121  | ppbv   | 94       |
| 8) Trichlorotrifluoroethane   | 2.738  | 101            | 57619    | 1.125  | ppbv   | 93       |
| 10) Cis-1,2-Dichloroethene    | 5.136  | 61             | 40155    | 1.026  | ppbv   | 90       |
| 12) 1,1,1-Trichloroethane     | 5.886  | 97             | 63846    | 1.009  | ppbv   | 93       |
| 13) Benzene                   | 6.436  | 78             | 86387    | 0.971  | ppbv#  | 90       |
| 14) Carbon Tetrachloride      | 5.792  | 117            | 60584    | 1.018  | ppbv   | 93       |
| 17) Trichloroethene           | 7.292  | 130            | 48006    | 1.026  | ppbv   | 97       |
| 18) Toluene                   | 9.153  | 91             | 114114   | 1.002  | ppbv   | 99       |
| 19) Tetrachloroethene         | 9.622  | 166            | 67596    | 1.041  | ppbv   | 98       |
| 21) Chlorobenzene             | 10.949 | 112            | 93017    | 1.028  | ppbv#  | 57       |
| 22) Ethylbenzene              | 11.031 | 91             | 144287   | 1.076  | ppbv   | 99       |
| 23) m,p-Xylene                | 11.210 | 91             | 226835   | 2.171  | ppbv   | 97       |
| 24) o-Xylene                  | 11.711 | 91             | 117854   | 1.040  | ppbv   | 94       |
| 26) 1,3-Dichlorobenzene       | 13.629 | 146            | 82874    | 1.066  | ppbv   | 97       |
| 27) 1,4-Dichlorobenzene       | 13.726 | 146            | 78667    | 1.019  | ppbv   | 97       |
| 28) 1,2-Dichlorobenzene       | 14.102 | 146            | 62262    | 1.050  | ppbv   | 98       |
| 29) 1,2,4-Trichlorobenzene    | 15.262 | 180            | 42204    | 1.034  | ppbv   | 99       |
| 31) Vinyl Chloride(sim)       | 1.732  | 62             | 26591    | 0.945  | ppbv   | 98       |
| 34) Carbon Tetrachloride(sim) | 5.788  | 117            | 61125    | 1.082  | ppbv   | 99       |
| 35) 1,1-Dichloroethene(sim)   | 2.670  | 61             | 38243    | 0.965  | ppbv   | 95       |
| 39) Cis-1,2-Dichloroethene... | 5.136  | 61             | 40020    | 0.961  | ppbv   | 95       |
| 44) Trichloroethene(sim)      | 7.295  | 130            | 48240    | 1.025  | ppbv   | 93       |
| 46) Tetrachloroethene(sim)    | 9.618  | 166            | 66436    | 1.034  | ppbv   | 99       |
| 48) m,p-Xylene(sim)           | 11.213 | 91             | 243426   | 2.225  | ppbv#  | 97       |
| 50) 1,4-Dichlorobenzene(sim)  | 13.729 | 146            | 85052    | 1.120  | ppbv   | 97       |

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_02.D  
 Acq On : 12 Jul 2020 10:02 pm  
 Operator : Keith  
 Client ID : BFB TUNE - CCAL 1  
 Lab ID : 1ppb cc - 1ppb cc  
 ALS Vial : 134 Sample Multiplier: 1

Quant Time: Oct 13 15:32:48 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jul 13 10:21:18 2020  
 Response via : Initial Calibration



|              |                      |                  |                          |
|--------------|----------------------|------------------|--------------------------|
| Client:      | <u>WALDENE-IPARK</u> | Lab:             | <u>Phoenix Env. Labs</u> |
| SDG No.:     | <u>GCG31864</u>      | Lab Sample ID:   | <u>CG31864 LCS</u>       |
| Canister:    | <u>LCS</u>           | Lab File ID:     | <u>0712_04.D</u>         |
| Instrument:  | <u>CHEM24</u>        | Column:          | <u>RTX-VMS</u>           |
|              |                      | Date Received:   | <u>07/10/20</u>          |
| Purge Volume | <u>200</u> (cc)      | Date Analyzed:   | <u>07/13/20</u>          |
| Matrix:      | <u>AIR</u>           | Dilution Factor: | <u>1</u>                 |

CONCENTRATION UNITS: (ppbv or ug/m3)      ppbv

[illegible]

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:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_04.D  
 Acq On : 13 Jul 2020 11:50 am  
 Operator : Keith  
 Client ID : CG31864 LCS  
 Lab ID : CG31864 LCS  
 ALS Vial : 136 Sample Multiplier: 1

Quant Time: Oct 13 15:28:09 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Tue Oct 13 15:26:45 2020  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.446  | 130   | 304633   | 10.000   | ng     | 0.00     |
| 15) 1,4-Difluorobenzene       | 7.367  | 114   | 1064917  | 10.000   | ng     | 0.00     |
| 20) Chlorobenzene-d5          | 10.935 | 82    | 511521   | 10.000   | ng     | 0.00     |
| 30) Bromochloromethane(sim)   | 5.449  | 130   | 296800   | 10.000   | ng     | # 0.00   |
| 41) 1,4-Difluorobenzene(sim)  | 7.367  | 114   | 1064917  | 10.000   | ng     | 0.00     |
| 47) Chlorobenzene-d5(sim)     | 10.935 | 82    | 511521   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 25) % Bromofluorobenzene      | 12.409 | 95    | 736649   | 10.122   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 101.20%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.513  | 85    | 449200   | 8.416    | ppbv   | 98       |
| 3) Vinyl Chloride             | 1.725  | 62    | 267855   | 10.651   | ppbv   | 80       |
| 4) Acetone                    | 3.313  | 43    | 386248   | 9.968    | ppbv#  | 89       |
| 5) Trichlorofluoromethane     | 2.225  | 101   | 798608   | 11.207   | ppbv#  | 85       |
| 6) 1,1-Dichloroethene         | 2.670  | 61    | 379884   | 10.914   | ppbv   | 96       |
| 7) Methylene Chloride         | 3.272  | 49    | 299774   | 10.312   | ppbv   | 96       |
| 8) Trichlorotrifluoroethane   | 2.738  | 101   | 565357   | 11.064   | ppbv   | 93       |
| 10) Cis-1,2-Dichloroethene    | 5.136  | 61    | 410044   | 10.498   | ppbv   | 90       |
| 12) 1,1,1-Trichloroethane     | 5.886  | 97    | 659837   | 10.457   | ppbv   | 93       |
| 13) Benzene                   | 6.436  | 78    | 865279   | 9.754    | ppbv#  | 89       |
| 14) Carbon Tetrachloride      | 5.792  | 117   | 702916   | 11.836   | ppbv   | 93       |
| 17) Trichloroethene           | 7.292  | 130   | 479452   | 10.121   | ppbv   | 96       |
| 18) Toluene                   | 9.160  | 91    | 1173067  | 10.172   | ppbv   | 98       |
| 19) Tetrachloroethene         | 9.622  | 166   | 691076   | 10.505   | ppbv   | 98       |
| 21) Chlorobenzene             | 10.956 | 112   | 962165   | 10.420   | ppbv#  | 52       |
| 22) Ethylbenzene              | 11.031 | 91    | 1411540  | 10.308   | ppbv   | 98       |
| 23) m,p-Xylene                | 11.217 | 91    | 2252840  | 21.122   | ppbv   | 98       |
| 24) o-Xylene                  | 11.711 | 91    | 1200521  | 10.375   | ppbv   | 95       |
| 26) 1,3-Dichlorobenzene       | 13.635 | 146   | 851656   | 10.728   | ppbv   | 97       |
| 27) 1,4-Dichlorobenzene       | 13.726 | 146   | 842097   | 10.687   | ppbv   | 98       |
| 28) 1,2-Dichlorobenzene       | 14.102 | 146   | 647529   | 10.694   | ppbv   | 99       |
| 29) 1,2,4-Trichlorobenzene    | 15.263 | 180   | 417435   | 10.015   | ppbv   | 99       |
| 31) Vinyl Chloride(sim)       | 1.725  | 62    | 267855   | 9.559    | ppbv   | 100      |
| 34) Carbon Tetrachloride(sim) | 5.795  | 117   | 717246   | 12.753   | ppbv   | 99       |
| 35) 1,1-Dichloroethene(sim)   | 2.670  | 61    | 379884   | 9.626    | ppbv   | 96       |
| 39) Cis-1,2-Dichloroethene... | 5.136  | 61    | 410044   | 9.894    | ppbv   | 95       |
| 44) Trichloroethene(sim)      | 7.295  | 130   | 481910   | 10.107   | ppbv   | 93       |
| 46) Tetrachloroethene(sim)    | 9.625  | 166   | 684386   | 10.520   | ppbv   | 99       |
| 48) m,p-Xylene(sim)           | 11.213 | 91    | 2419904  | 21.666   | ppbv#  | 97       |
| 50) 1,4-Dichlorobenzene(sim)  | 13.729 | 146   | 909289   | 11.731   | ppbv   | 97       |

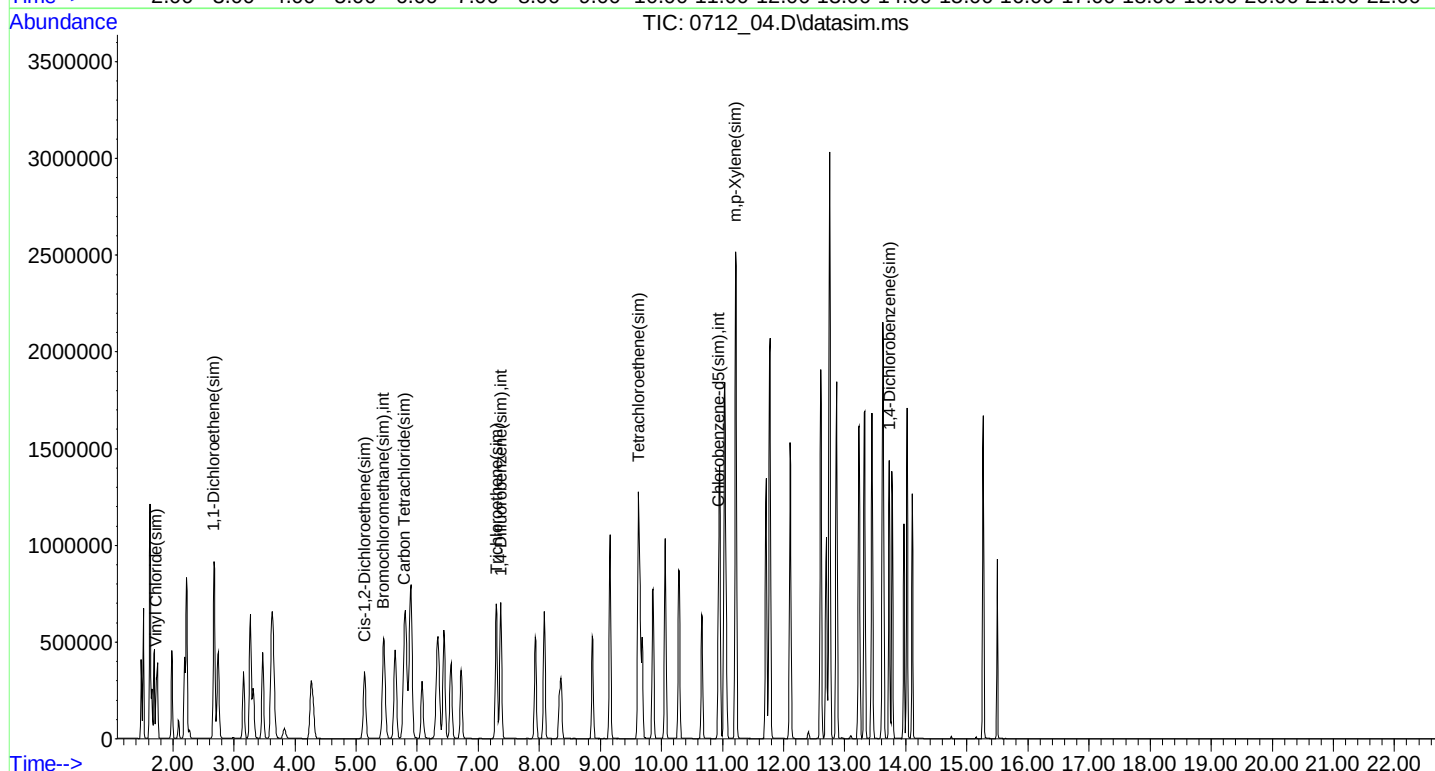
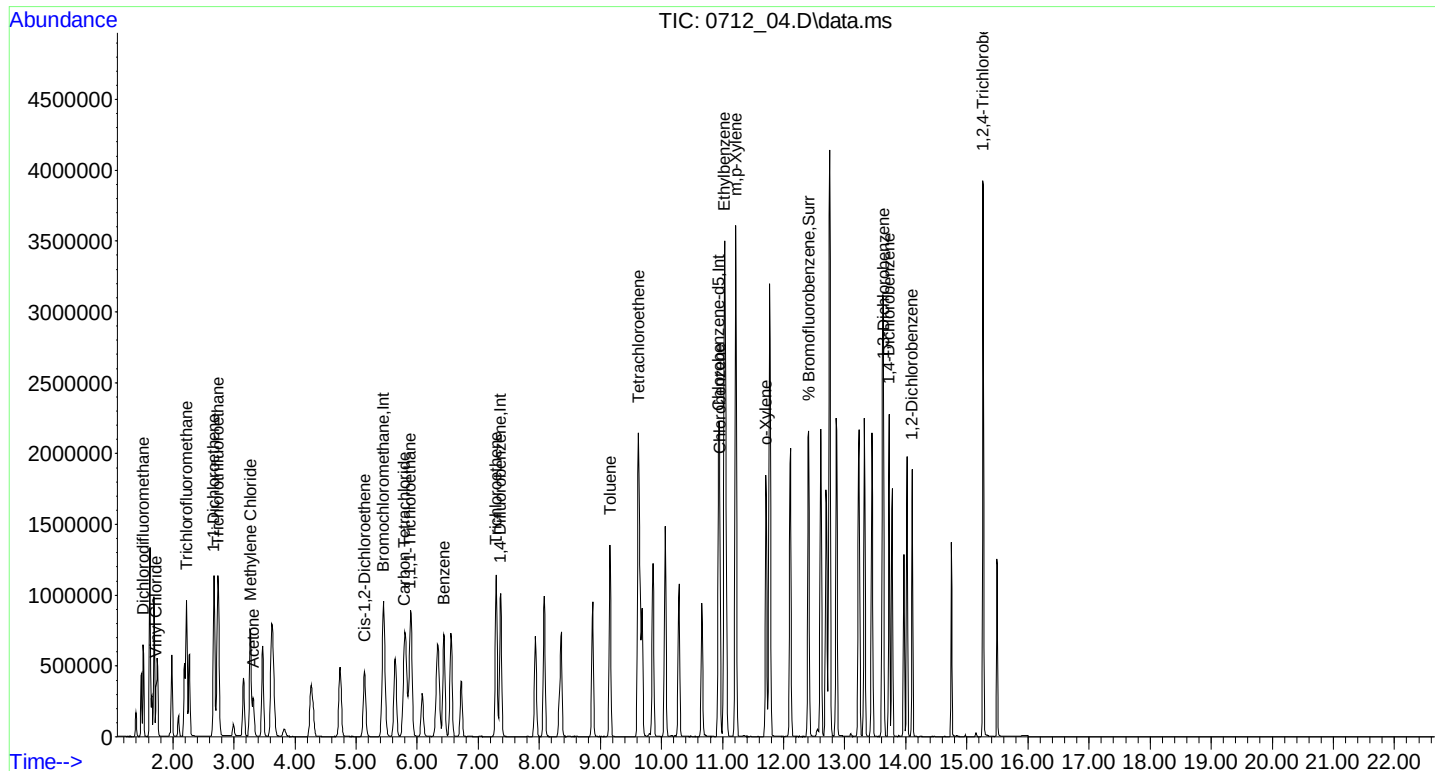
(#)out of range (m)manual integration reviewed by analyst (+)signals summed



# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_04.D  
 Acq On : 13 Jul 2020 11:50 am  
 Operator : Keith  
 Client ID : CG31864 LCS  
 Lab ID : CG31864 LCS  
 ALS Vial : 136 Sample Multiplier: 1

Quant Time: Oct 13 15:28:09 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Tue Oct 13 15:26:45 2020  
 Response via : Initial Calibration



CONCENTRATION UNITS: (ppbv or ug/m3)      ppbv

FORM I AIR

Page 80 of 101

Data Path : H:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_05.D  
 Acq On : 13 Jul 2020 12:27 pm  
 Operator : Keith  
 Client ID : CG31864 LCSD  
 Lab ID : CG31864 LCSD  
 ALS Vial : 137 Sample Multiplier: 1

Quant Time: Oct 13 15:28:12 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Tue Oct 13 15:26:45 2020  
 Response via : Initial Calibration

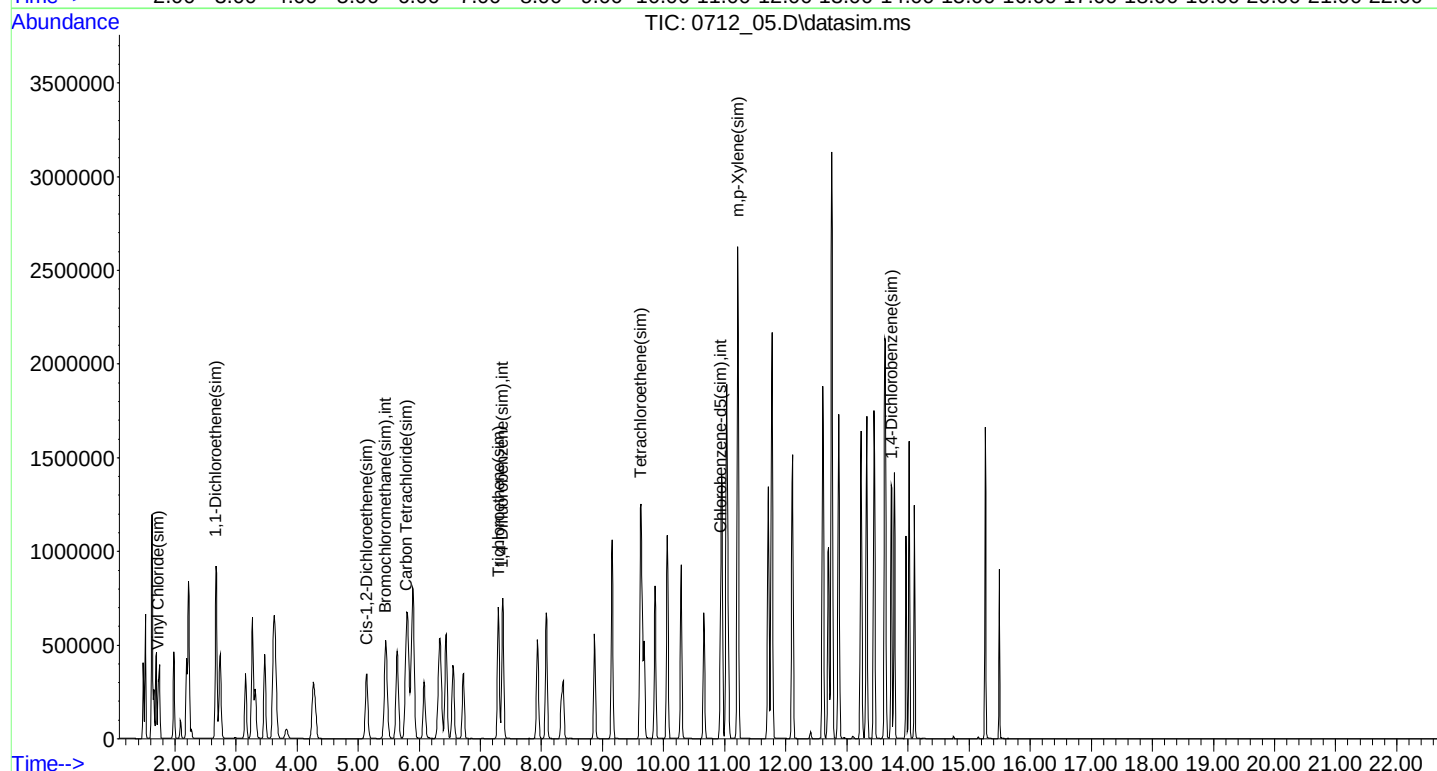
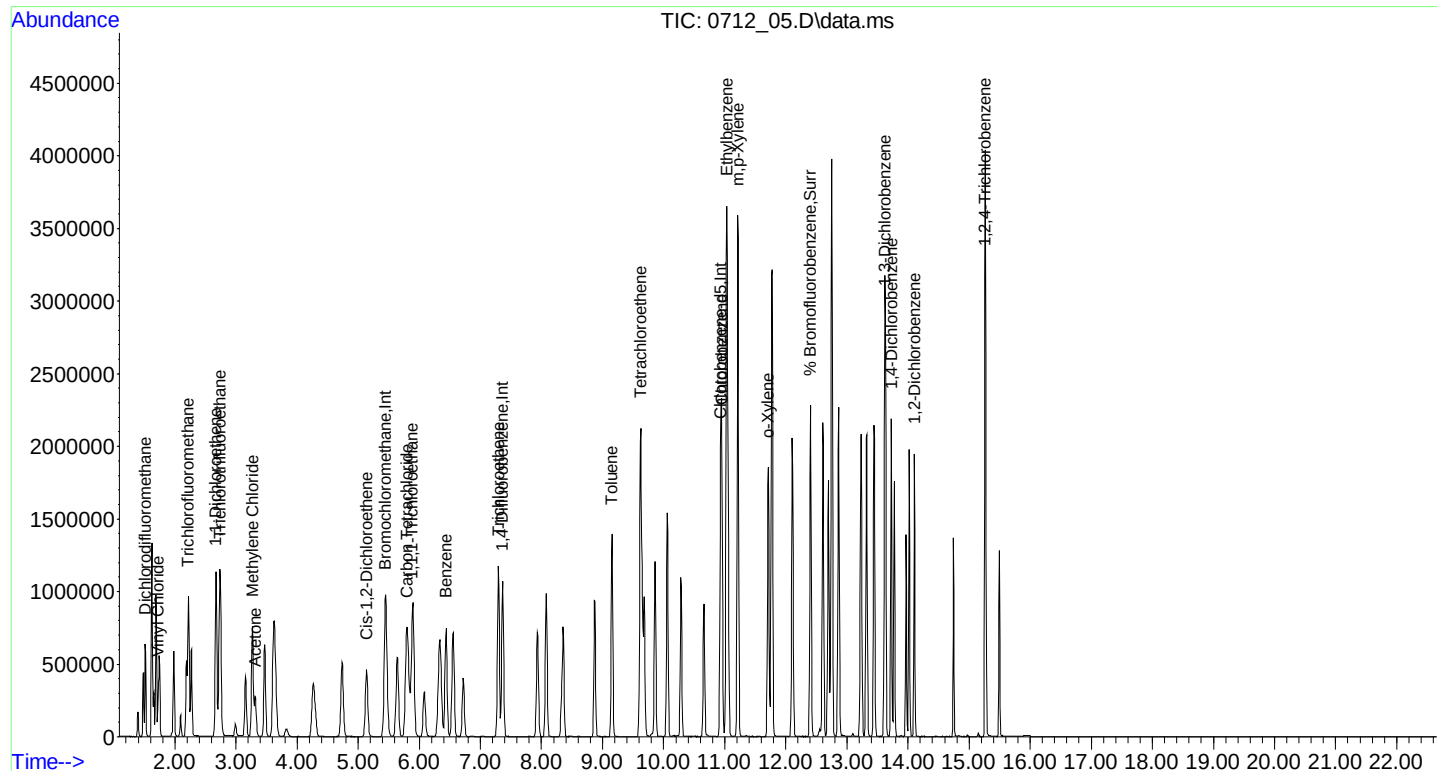
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.442  | 130   | 319257   | 10.000   | ng     | 0.00     |
| 15) 1,4-Difluorobenzene       | 7.363  | 114   | 1116059  | 10.000   | ng     | 0.00     |
| 20) Chlorobenzene-d5          | 10.931 | 82    | 540841   | 10.000   | ng     | 0.00     |
| 30) Bromochloromethane(sim)   | 5.444  | 130   | 311501   | 10.000   | ng     | # 0.00   |
| 41) 1,4-Difluorobenzene(sim)  | 7.363  | 114   | 1116059  | 10.000   | ng     | 0.00     |
| 47) Chlorobenzene-d5(sim)     | 10.931 | 82    | 540841   | 10.000   | ng     | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 25) % Bromofluorobenzene      | 12.404 | 95    | 768261   | 9.984    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =      | 99.80%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.512  | 85    | 441708   | 7.897    | ppbv   | 98       |
| 3) Vinyl Chloride             | 1.725  | 62    | 266653   | 10.118   | ppbv   | 81       |
| 4) Acetone                    | 3.313  | 43    | 390288   | 9.610    | ppbv#  | 89       |
| 5) Trichlorofluoromethane     | 2.218  | 101   | 809279   | 10.836   | ppbv#  | 84       |
| 6) 1,1-Dichloroethene         | 2.670  | 61    | 382322   | 10.481   | ppbv   | 96       |
| 7) Methylene Chloride         | 3.272  | 49    | 302268   | 9.922    | ppbv   | 96       |
| 8) Trichlorotrifluoroethane   | 2.738  | 101   | 571144   | 10.665   | ppbv   | 93       |
| 10) Cis-1,2-Dichloroethene    | 5.139  | 61    | 414324   | 10.122   | ppbv   | 89       |
| 12) 1,1,1-Trichloroethane     | 5.888  | 97    | 673895   | 10.191   | ppbv   | 94       |
| 13) Benzene                   | 6.439  | 78    | 881570   | 9.483    | ppbv#  | 89       |
| 14) Carbon Tetrachloride      | 5.795  | 117   | 720745   | 11.580   | ppbv   | 93       |
| 17) Trichloroethene           | 7.295  | 130   | 487761   | 9.824    | ppbv   | 96       |
| 18) Toluene                   | 9.156  | 91    | 1190778  | 9.853    | ppbv   | 98       |
| 19) Tetrachloroethene         | 9.625  | 166   | 692707   | 10.047   | ppbv   | 98       |
| 21) Chlorobenzene             | 10.952 | 112   | 984620   | 10.085   | ppbv#  | 52       |
| 22) Ethylbenzene              | 11.034 | 91    | 1430014  | 9.877    | ppbv   | 98       |
| 23) m,p-Xylene                | 11.213 | 91    | 2254062  | 19.988   | ppbv   | 98       |
| 24) o-Xylene                  | 11.714 | 91    | 1222637  | 9.993    | ppbv   | 95       |
| 26) 1,3-Dichlorobenzene       | 13.631 | 146   | 848655   | 10.111   | ppbv   | 98       |
| 27) 1,4-Dichlorobenzene       | 13.728 | 146   | 824503   | 9.896    | ppbv   | 98       |
| 28) 1,2-Dichlorobenzene       | 14.105 | 146   | 657393   | 10.268   | ppbv   | 99       |
| 29) 1,2,4-Trichlorobenzene    | 15.259 | 180   | 416593   | 9.453    | ppbv   | 99       |
| 31) Vinyl Chloride(sim)       | 1.725  | 62    | 266653   | 9.067    | ppbv   | 100      |
| 34) Carbon Tetrachloride(sim) | 5.790  | 117   | 734843   | 12.450   | ppbv   | 99       |
| 35) 1,1-Dichloroethene(sim)   | 2.670  | 61    | 382235   | 9.229    | ppbv   | 96       |
| 39) Cis-1,2-Dichloroethene... | 5.139  | 61    | 414474   | 9.529    | ppbv   | 94       |
| 44) Trichloroethene(sim)      | 7.298  | 130   | 492363   | 9.853    | ppbv   | 93       |
| 46) Tetrachloroethene(sim)    | 9.620  | 166   | 689178   | 10.108   | ppbv   | 99       |
| 48) m,p-Xylene(sim)           | 11.216 | 91    | 2411000  | 20.416   | ppbv#  | 98       |
| 50) 1,4-Dichlorobenzene(sim)  | 13.731 | 146   | 898616   | 10.965   | ppbv   | 98       |

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_05.D  
 Acq On : 13 Jul 2020 12:27 pm  
 Operator : Keith  
 Client ID : CG31864 LCSD  
 Lab ID : CG31864 LCSD  
 ALS Vial : 137 Sample Multiplier: 1

Quant Time: Oct 13 15:28:12 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Tue Oct 13 15:26:45 2020  
 Response via : Initial Calibration



Client: WALDENE-IPARK Lab: Phoenix Env. Labs

Lab Sample ID: CG31864 BL

Lab File ID: 0712\_07.D

Purge Volume 200 (cc) Date Analyzed: 07/13/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3)                      ppbv

FORM I AIR

10/16/2020

Data Path : H:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_07.D  
 Acq On : 13 Jul 2020 1:29 pm  
 Operator : Keith  
 Client ID : CG31864 BLANK  
 Lab ID : CG31864 BLANK  
 ALS Vial : 138 Sample Multiplier: 1

Quant Time: Oct 13 15:28:21 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Tue Oct 13 15:26:45 2020  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| -----                        |        |       |          |          |       |          |
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 5.442  | 130   | 338369   | 10.000   | ng    | 0.00     |
| 15) 1,4-Difluorobenzene      | 7.363  | 114   | 1166915  | 10.000   | ng    | 0.00     |
| 20) Chlorobenzene-d5         | 10.931 | 82    | 566885   | 10.000   | ng    | 0.00     |
| 30) Bromochloromethane(sim)  | 5.445  | 130   | 331056   | 10.000   | ng    | # 0.00   |
| 41) 1,4-Difluorobenzene(sim) | 7.363  | 114   | 1166915  | 10.000   | ng    | 0.00     |
| 47) Chlorobenzene-d5(sim)    | 10.931 | 82    | 566885   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 25) % Bromofluorobenzene     | 12.405 | 95    | 781282   | 9.687    | ppbv  | 0.00     |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 96.90%   |

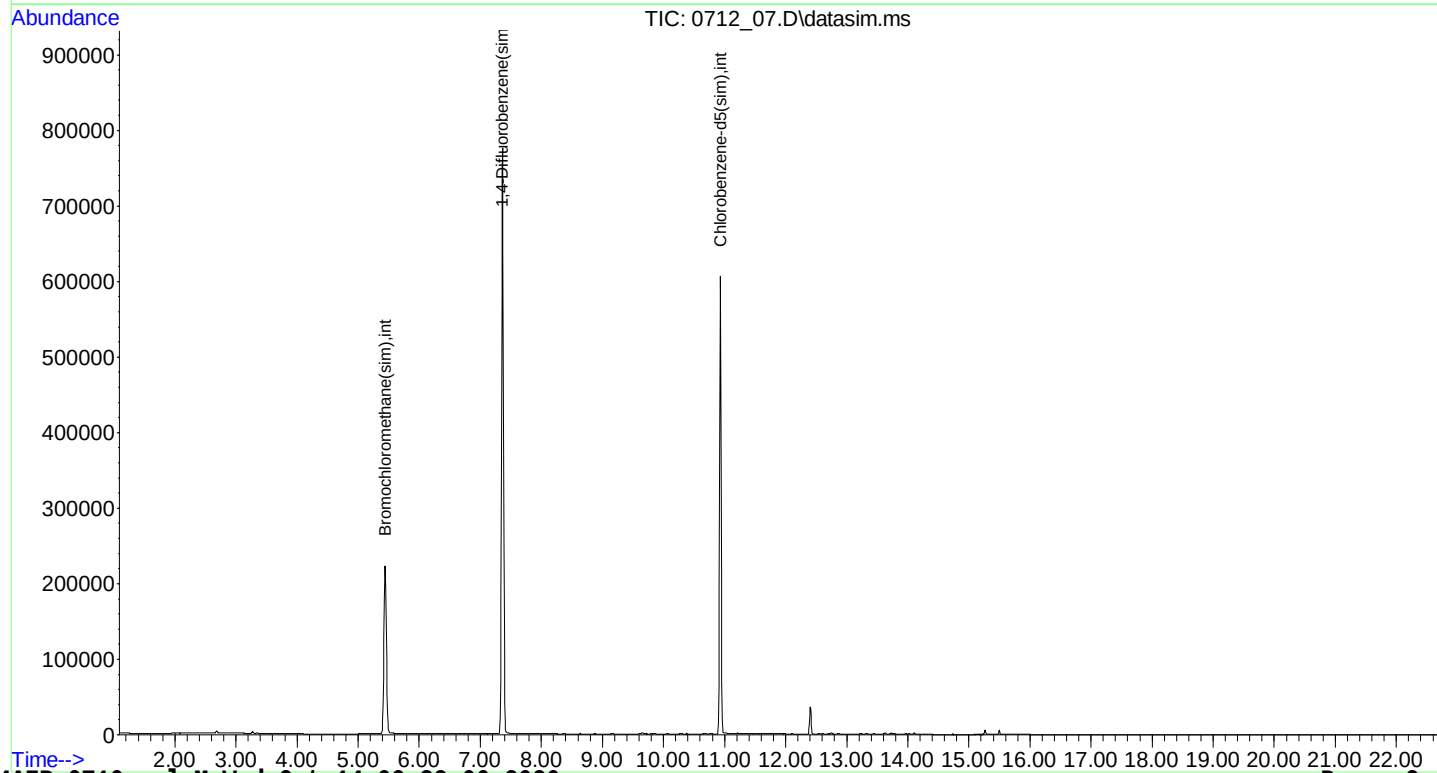
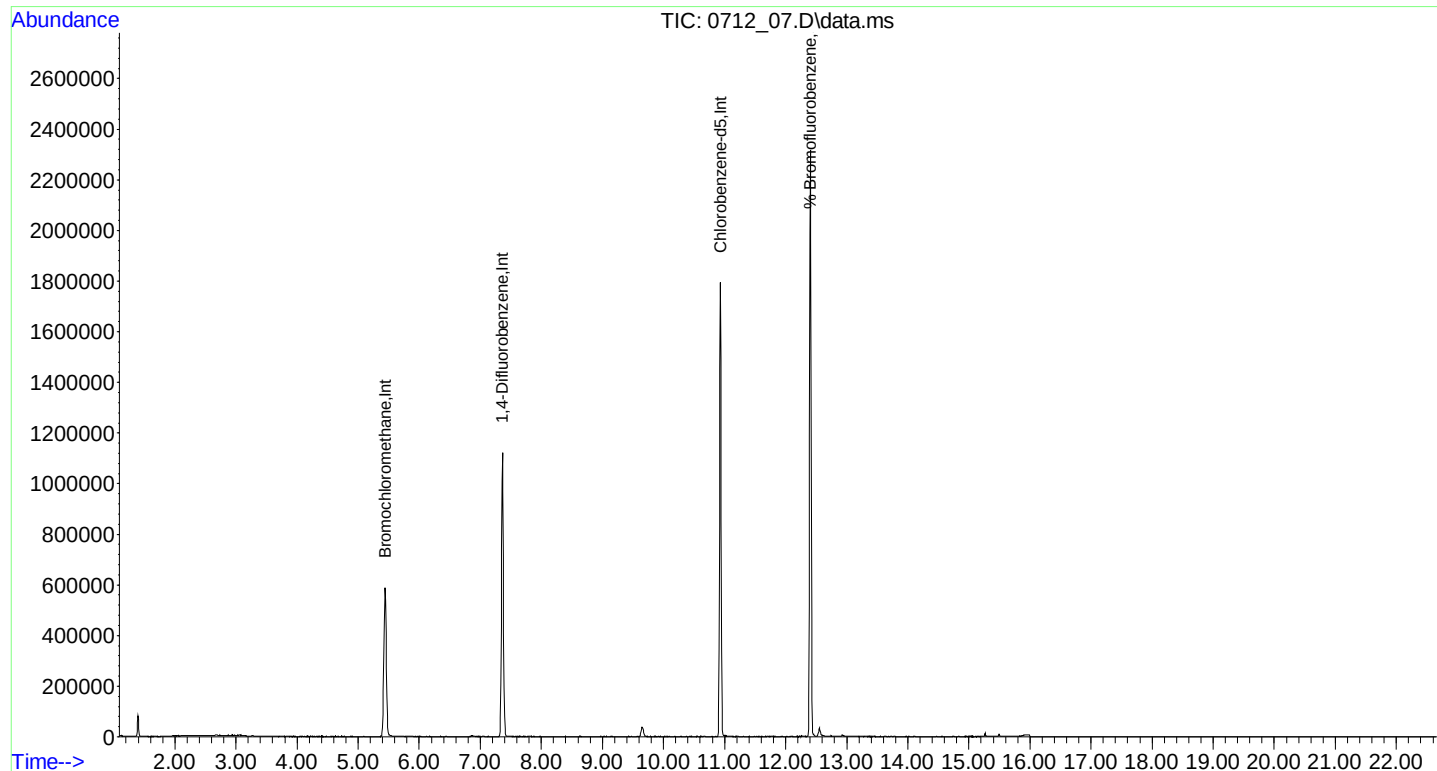
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_07.D  
 Acq On : 13 Jul 2020 1:29 pm  
 Operator : Keith  
 Client ID : CG31864 BLANK  
 Lab ID : CG31864 BLANK  
 ALS Vial : 138 Sample Multiplier: 1

Quant Time: Oct 13 15:28:21 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Tue Oct 13 15:26:45 2020  
 Response via : Initial Calibration



Dilution Factor: 1

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Data Path : H:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_12.D  
 Acq On : 13 Jul 2020 4:35 pm  
 Operator : Keith  
 Sample : 31864 260cc dup  
 Misc :  
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Oct 13 15:30:29 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Tue Oct 13 15:26:45 2020  
 Response via : Initial Calibration

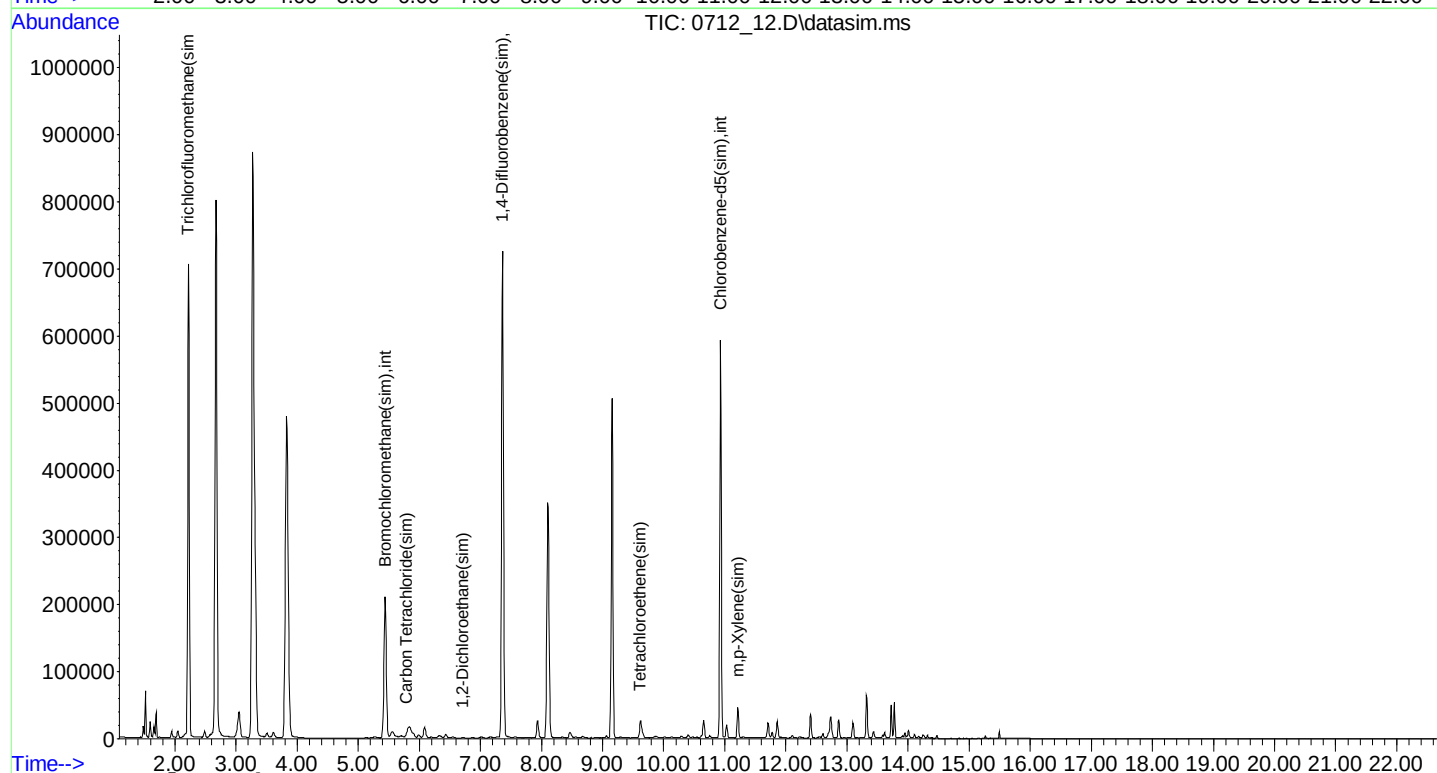
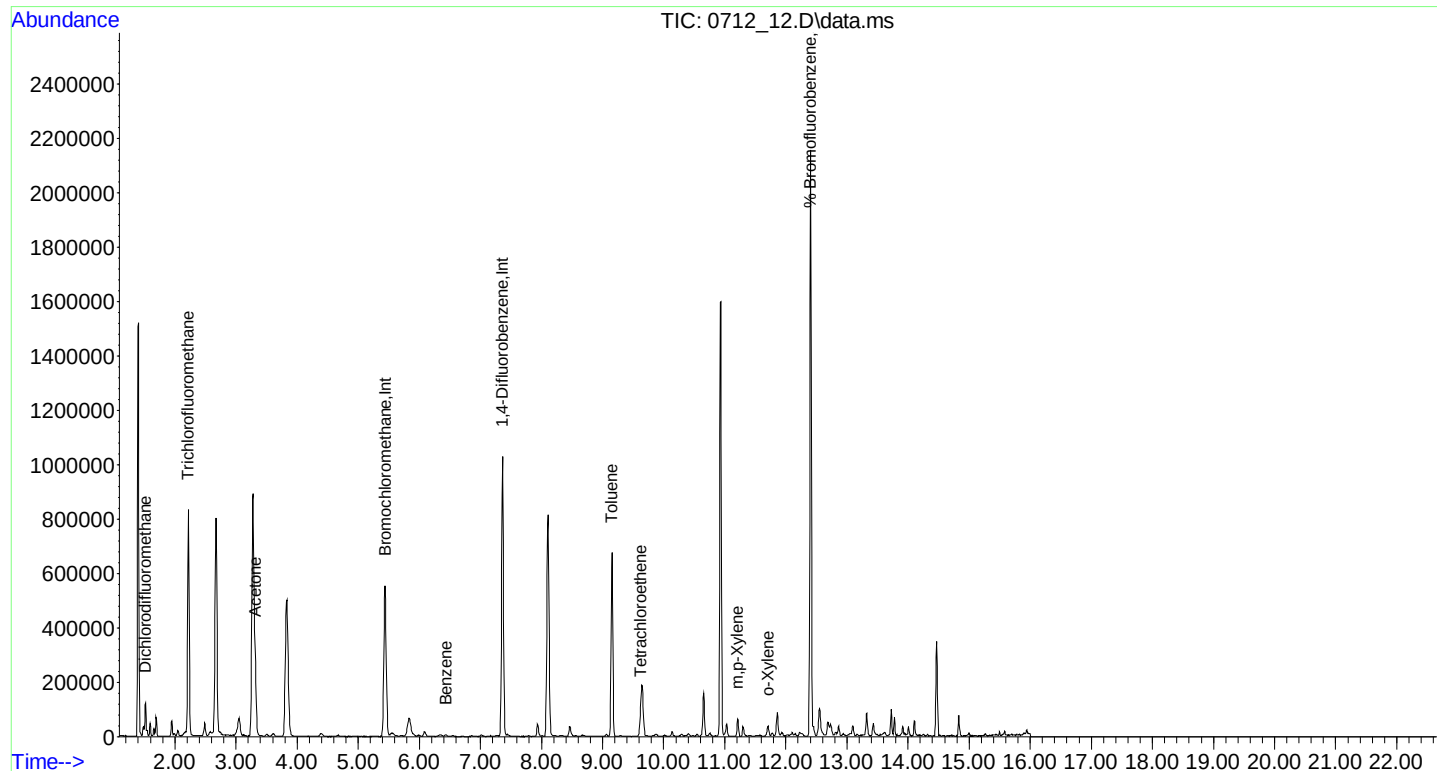
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|-------|-----------|
| Internal Standards            |        |       |          |          |       |           |
| 1) Bromochloromethane         | 5.439  | 130   | 307477   | 10.000   | ng    | 0.00      |
| 15) 1,4-Difluorobenzene       | 7.361  | 114   | 1065913  | 10.000   | ng    | 0.00      |
| 20) Chlorobenzene-d5          | 10.929 | 82    | 528703   | 10.000   | ng    | 0.00      |
| 30) Bromochloromethane(sim)   | 5.442  | 130   | 300588   | 10.000   | ng    | # 0.00    |
| 41) 1,4-Difluorobenzene(sim)  | 7.361  | 114   | 1065913  | 10.000   | ng    | 0.00      |
| 47) Chlorobenzene-d5(sim)     | 10.929 | 82    | 528703   | 10.000   | ng    | 0.00      |
| System Monitoring Compounds   |        |       |          |          |       |           |
| 25) % Bromofluorobenzene      | 12.402 | 95    | 733657   | 9.753    | ppbv  | 0.00      |
| Spiked Amount                 | 10.000 | Range | 70 - 130 | Recovery | =     | 97.50%    |
| Target Compounds              |        |       |          |          |       |           |
| 2) Dichlorodifluoromethane    | 1.519  | 85    | 46117    | 0.856    | ppbv  | Qvalue 97 |
| 4) Acetone                    | 3.313  | 43    | 392531m  | 10.036   | ppbv  | 87        |
| 5) Trichlorofluoromethane     | 2.218  | 101   | 656502   | 9.127    | ppbv# | 84        |
| 13) Benzene                   | 6.436  | 78    | 7505     | 0.084    | ppbv  | 96        |
| 18) Toluene                   | 9.153  | 91    | 560561   | 4.856    | ppbv  | 98        |
| 19) Tetrachloroethene         | 9.622  | 166   | 13607    | 0.207    | ppbv  | 97        |
| 23) m,p-Xylene                | 11.210 | 91    | 39871    | 0.362    | ppbv  | 96        |
| 24) o-Xylene                  | 11.711 | 91    | 19483    | 0.163    | ppbv  | 96        |
| 32) Trichlorofluoromethane... | 2.221  | 101   | 679006   | 8.452    | ppbv  | 100       |
| 34) Carbon Tetrachloride(sim) | 5.788  | 117   | 4686     | 0.082    | ppbv  | 100       |
| 40) 1,2-Dichloroethane(sim)   | 6.713  | 62    | 1007     | 0.024    | ppbv# | 89        |
| 46) Tetrachloroethene(sim)    | 9.618  | 166   | 13810    | 0.212    | ppbv  | 96        |
| 48) m,p-Xylene(sim)           | 11.213 | 91    | 43043    | 0.373    | ppbv# | 97        |

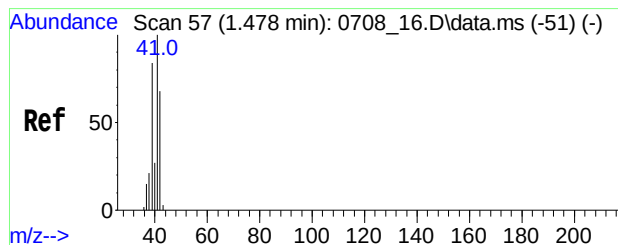
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\07JUL\12A\  
 Data File : 0712\_12.D  
 Acq On : 13 Jul 2020 4:35 pm  
 Operator : Keith  
 Sample : 31864 260cc dup  
 Misc :  
 ALS Vial : 143 Sample Multiplier: 1

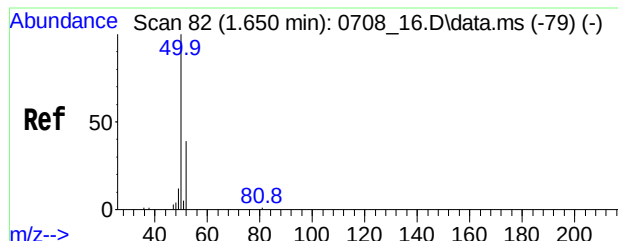
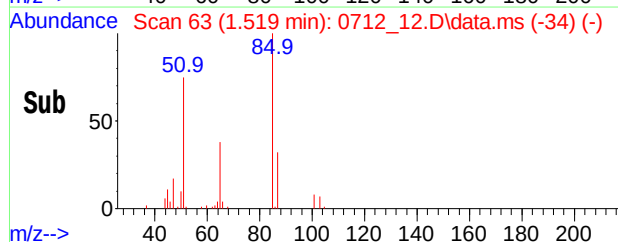
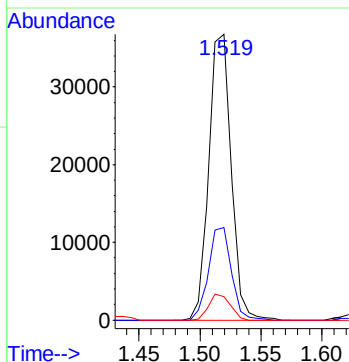
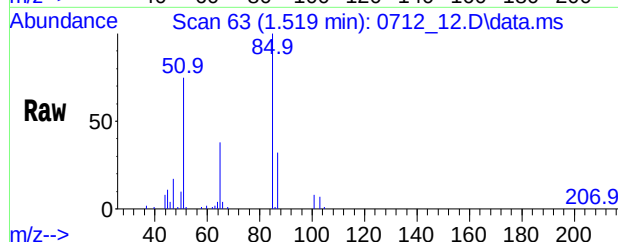
Quant Time: Oct 13 15:30:29 2020  
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR\_0710\_wal.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Tue Oct 13 15:26:45 2020  
 Response via : Initial Calibration





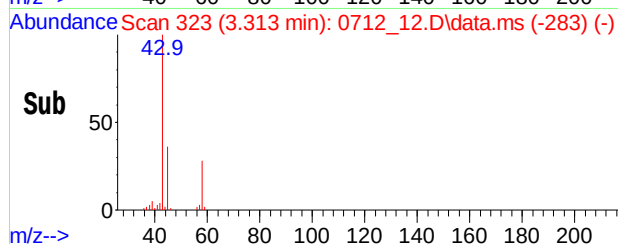
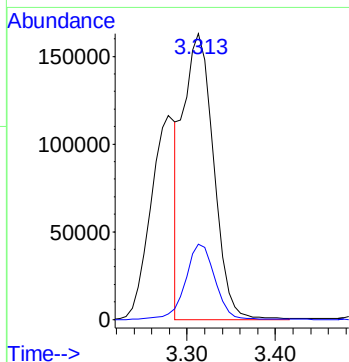
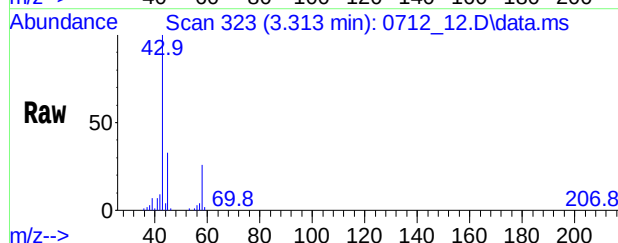
#2  
**Dichlorodifluoromethane**  
 Conc: 8\$ 0.856 ppbv  
 RT: 1.519 min Scan# 63  
 Delta R.T. 0.000 min  
 Lab File: 0712\_12.D  
 Acq: 13 Jul 2020 4:35 pm

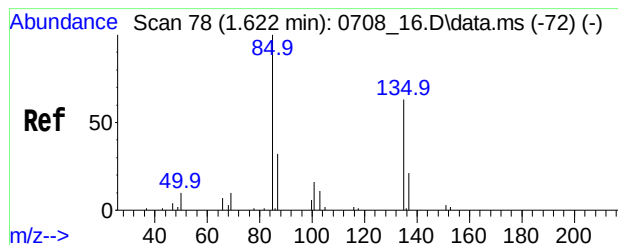
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 85      | 100   | 46117 |       |       |
| 87      | 33.1  | 25.0  |       | 37.6  |
| 101     | 8.8   | 7.4   |       | 11.0  |



#4  
**Acetone**  
 Conc: 8\$ 10.036 ppbv  
 RT: 3.313 min Scan# 323  
 Delta R.T. -0.027 min  
 Lab File: 0712\_12.D  
 Acq: 13 Jul 2020 4:35 pm

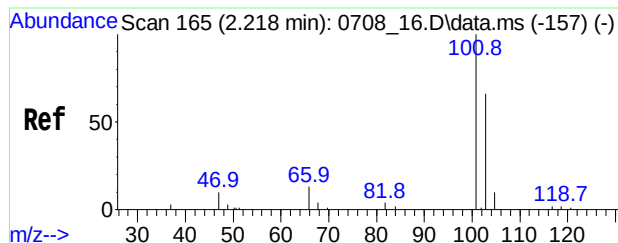
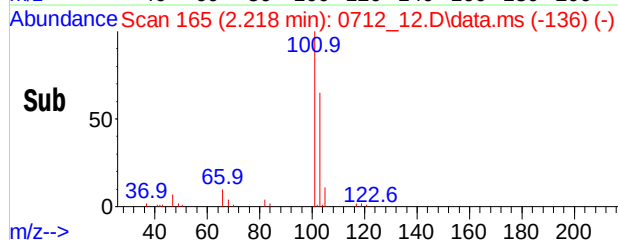
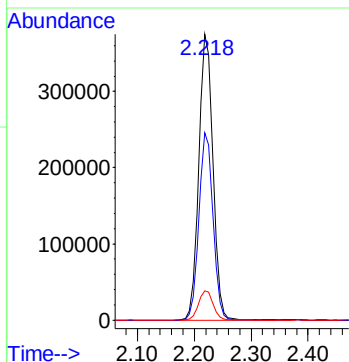
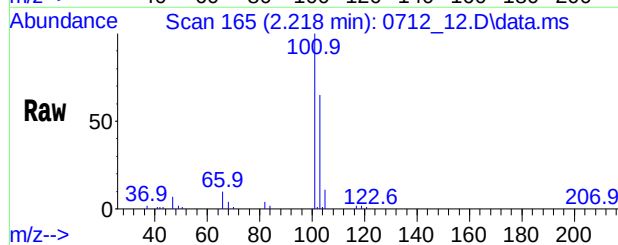
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 43      | 100   | 392531 |       |       |
| 58      | 25.5  | 17.9   |       | 26.9  |





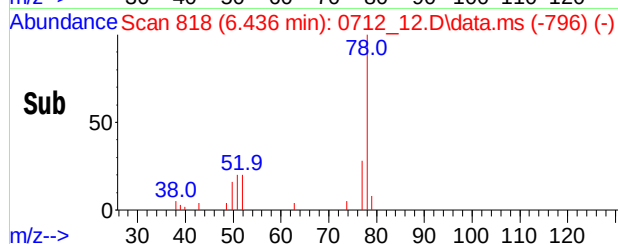
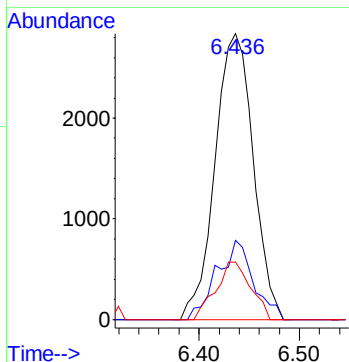
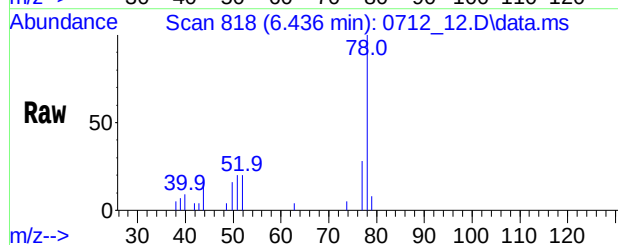
#5  
**Trichlorofluoromethane**  
 Conc: 8\$ 9.127 ppbv  
 RT: 2.218 min Scan# 165  
 Delta R.T. 0.000 min  
 Lab File: 0712\_12.D  
 Acq: 13 Jul 2020 4:35 pm

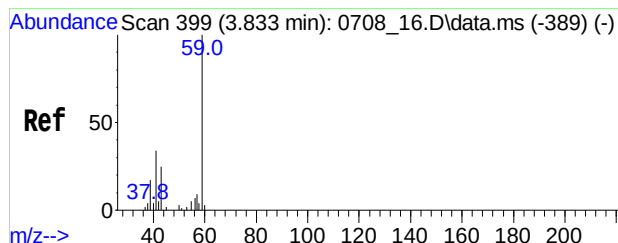
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 656502 |       |       |
| 103     | 65.5  | 63.2   | 94.8  |       |
| 66      | 10.6  | 14.3   | 21.5# |       |



#13  
**Benzene**  
 Conc: 8\$ 0.084 ppbv  
 RT: 6.436 min Scan# 818  
 Delta R.T. 0.000 min  
 Lab File: 0712\_12.D  
 Acq: 13 Jul 2020 4:35 pm

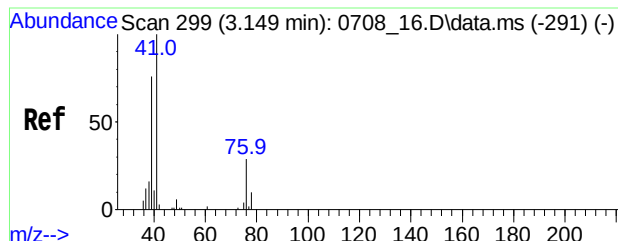
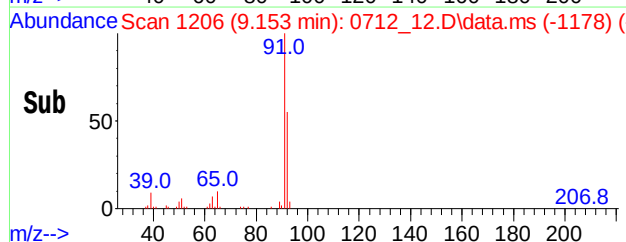
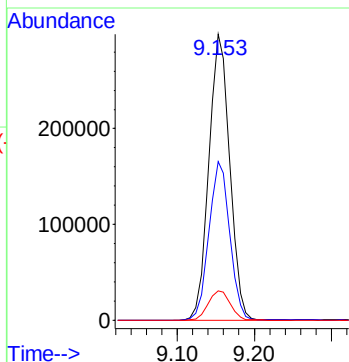
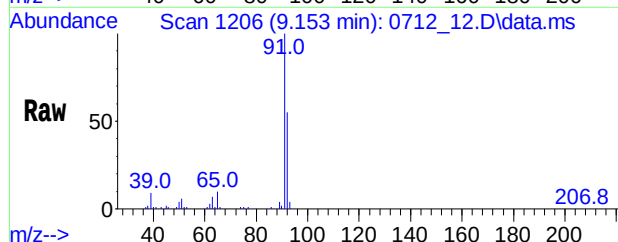
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 78      | 100   | 7505 |       |       |
| 77      | 26.4  | 22.7 | 34.1  |       |
| 51      | 18.3  | 16.3 | 24.5  |       |





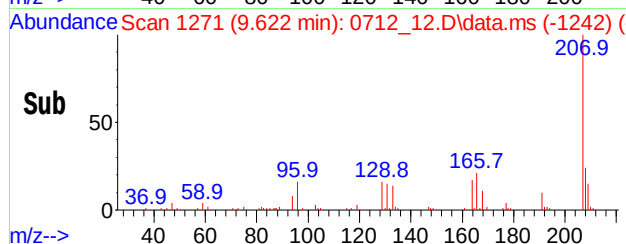
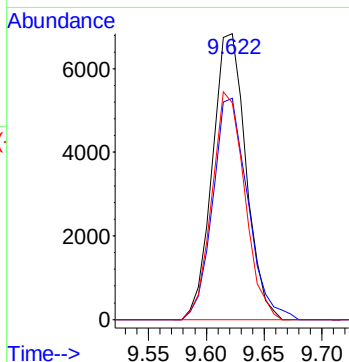
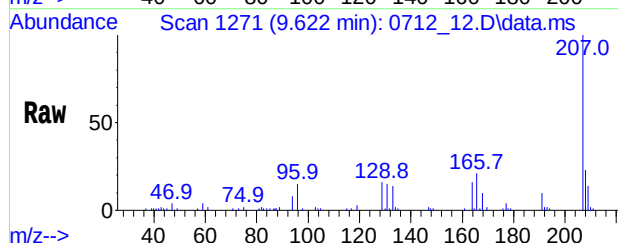
#18  
Toluene  
Conc: 8\$ 4.856 ppbv  
RT: 9.153 min Scan# 1206  
Delta R.T. -0.000 min  
Lab File: 0712\_12.D  
Acq: 13 Jul 2020 4:35 pm

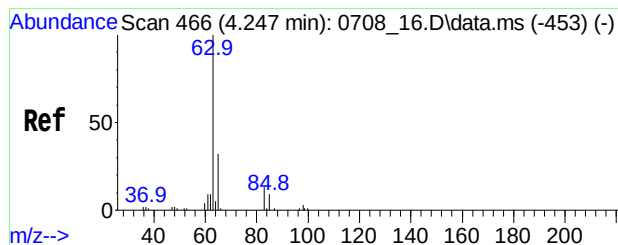
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 560561 |       |       |
| 92      | 55.3  | 43.4   | 65.0  |       |
| 65      | 10.8  | 10.2   | 15.2  |       |



#19  
Tetrachloroethene  
Conc: 8\$ 0.207 ppbv  
RT: 9.622 min Scan# 1271  
Delta R.T. 0.007 min  
Lab File: 0712\_12.D  
Acq: 13 Jul 2020 4:35 pm

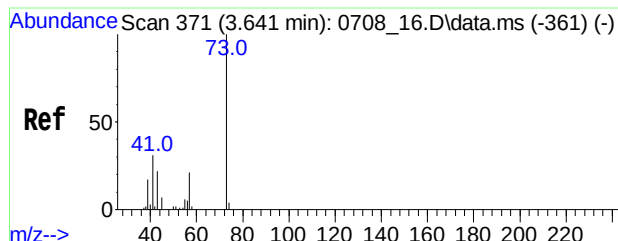
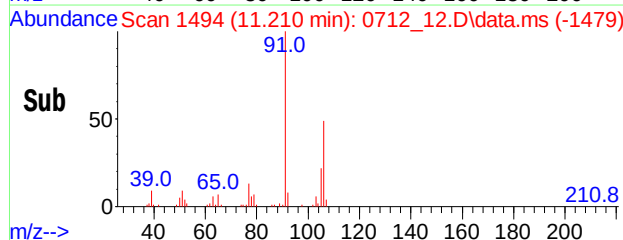
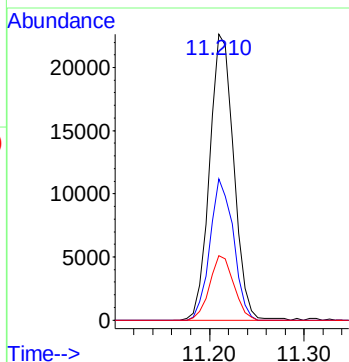
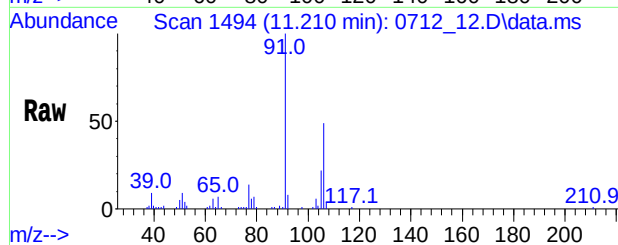
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 13607 |       |       |
| 164     | 81.0  | 61.5  | 92.3  |       |
| 129     | 77.7  | 61.7  | 92.5  |       |





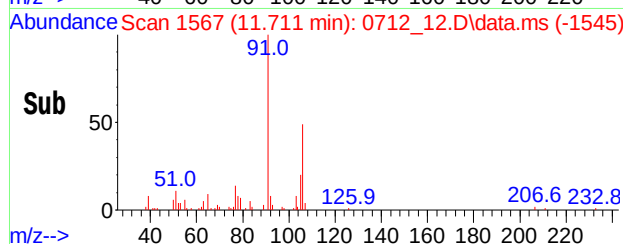
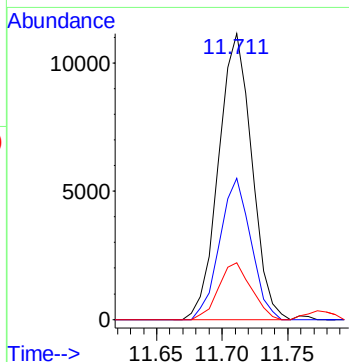
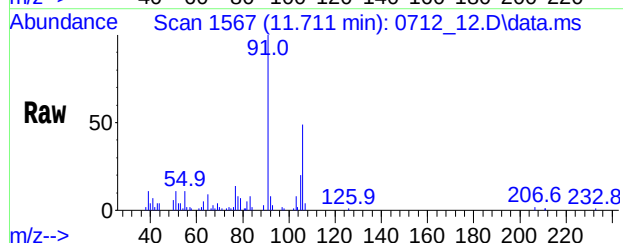
#23  
m,p-Xylene  
Conc: 8\$ 0.362 ppbv  
RT: 11.210 min Scan# 1494  
Delta R.T. -0.000 min  
Lab File: 0712\_12.D  
Acq: 13 Jul 2020 4:35 pm

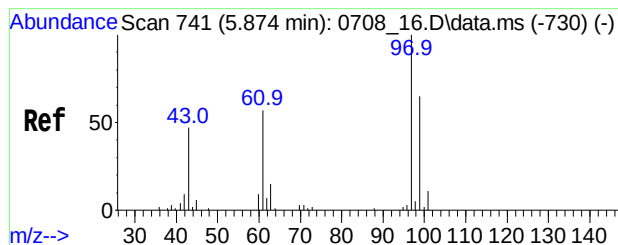
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 39871 |       |       |
| 106     | 48.0  | 40.0  | 60.0  |       |
| 105     | 22.6  | 19.9  | 29.9  |       |



#24  
o-Xylene  
Conc: 8\$ 0.163 ppbv  
RT: 11.711 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: 0712\_12.D  
Acq: 13 Jul 2020 4:35 pm

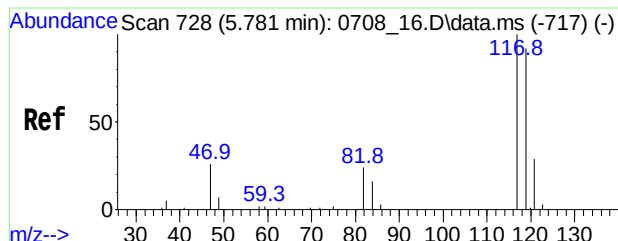
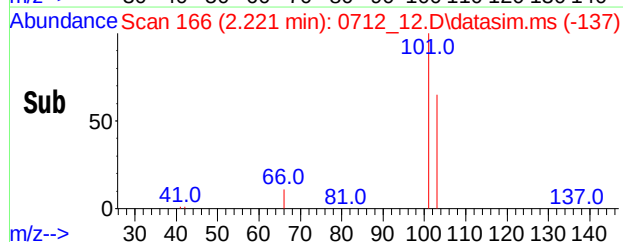
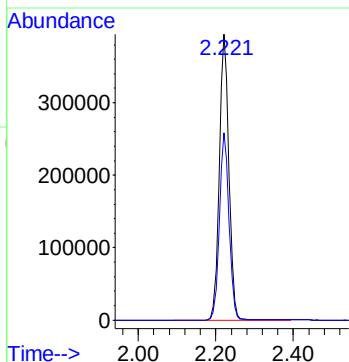
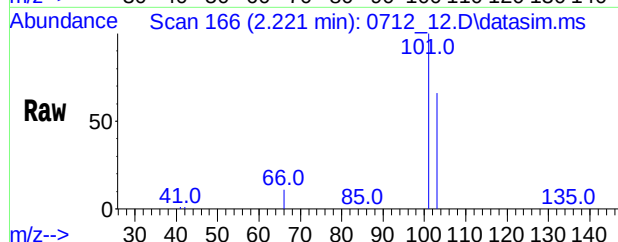
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 19483 |       |       |
| 106     | 46.6  | 39.0  | 58.6  |       |
| 105     | 19.4  | 18.1  | 27.1  |       |





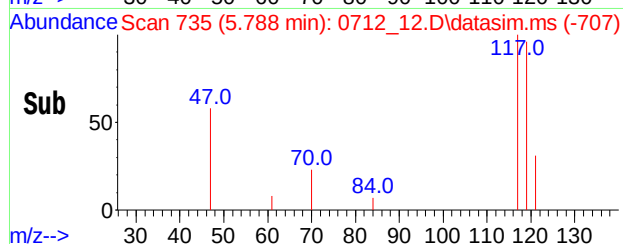
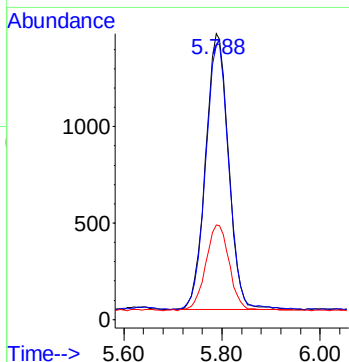
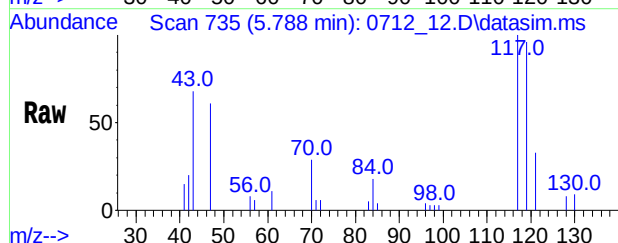
#32  
Trichlorofluoromethane(sim)  
Conc: 8\$ 8.452 ppbv  
RT: 2.221 min Scan# 166  
Delta R.T. 0.000 min  
Lab File: 0712\_12.D  
Acq: 13 Jul 2020 4:35 pm

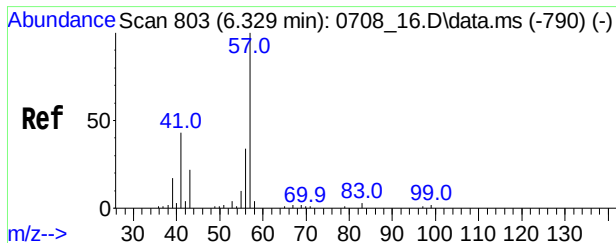
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 679006 |       |       |
| 103     | 65.5  | 52.6   |       | 79.0  |



#34  
Carbon Tetrachloride(sim)  
Conc: 8\$ 0.082 ppbv  
RT: 5.788 min Scan# 735  
Delta R.T. -0.000 min  
Lab File: 0712\_12.D  
Acq: 13 Jul 2020 4:35 pm

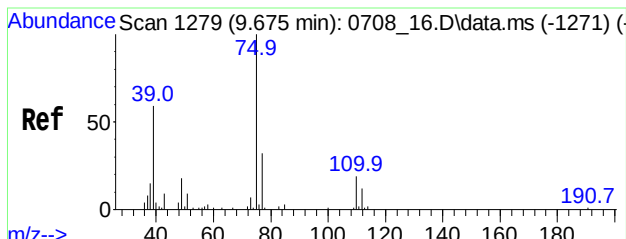
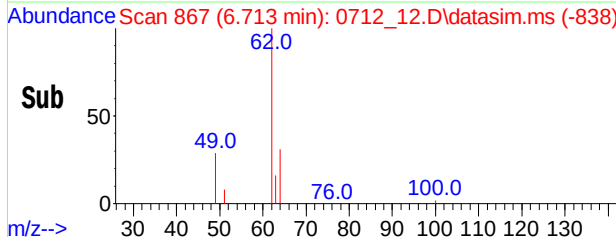
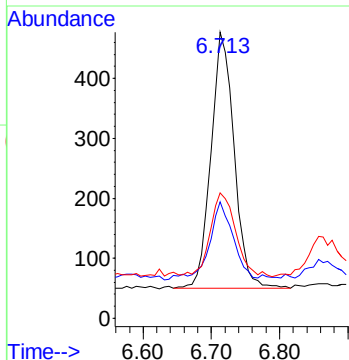
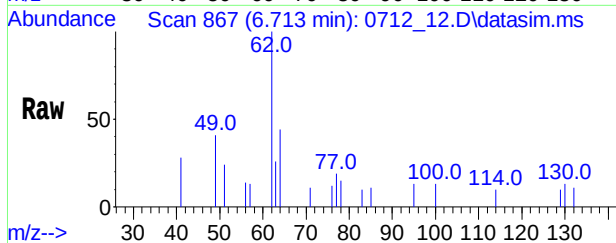
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 4686 |       |       |
| 119     | 97.1  | 77.8 |       | 116.8 |
| 121     | 31.7  | 25.2 |       | 37.8  |





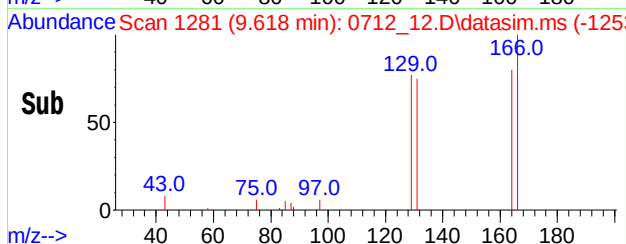
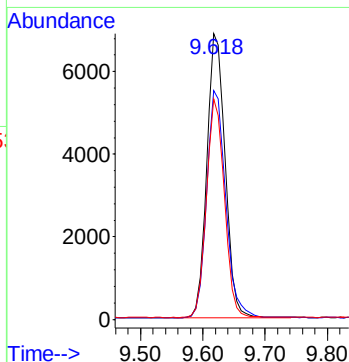
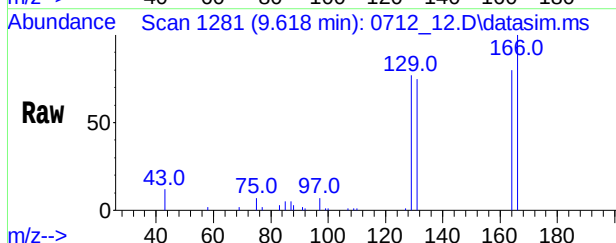
#40  
1,2-Dichloroethane(sim)  
Conc: 8\$ 0.024 ppbv  
RT: 6.713 min Scan# 867  
Delta R.T. -0.004 min  
Lab File: 0712\_12.D  
Acq: 13 Jul 2020 4:35 pm

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 62      | 100   | 1007 |       |       |
| 49      | 31.4  | 0.6  | 57.0  |       |
| 64      | 36.4  | 37.4 | 56.2# |       |

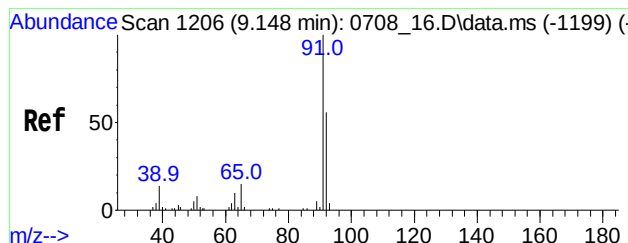


#46  
Tetrachloroethene(sim)  
Conc: 8\$ 0.212 ppbv  
RT: 9.618 min Scan# 1281  
Delta R.T. 0.003 min  
Lab File: 0712\_12.D  
Acq: 13 Jul 2020 4:35 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 13810 |       |       |
| 164     | 83.0  | 56.8  | 96.8  |       |
| 129     | 75.5  | 57.1  | 97.1  |       |

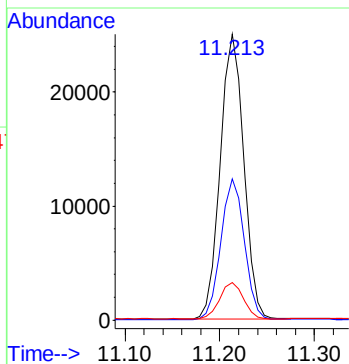
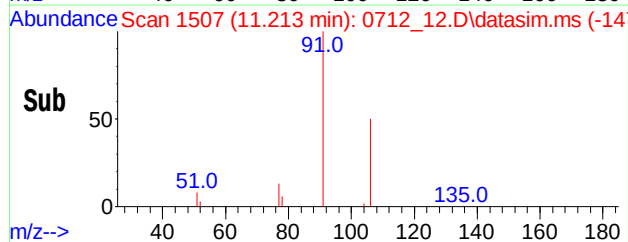
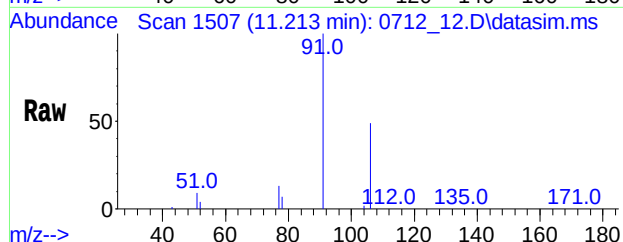






#48  
 m,p-Xylene(sim)  
 Conc: 8\$ 0.373 ppbv  
 RT: 11.213 min Scan# 1507  
 Delta R.T. 0.003 min  
 Lab File: 0712\_12.D  
 Acq: 13 Jul 2020 4:35 pm

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 91      | 100   | 43043 |       |       |
| 106     | 49.1  | 45.0  | 55.0  |       |
| 77      | 12.8  | 13.2  | 19.8  |       |



|              |               |                  |                   |
|--------------|---------------|------------------|-------------------|
| Client:      | WALDENE-IPARK | Lab:             | Phoenix Env. Labs |
| SDG No.:     | GCG31864      | Lab Sample ID:   | CANISTER BLK 475  |
| Canister:    | CANBL         | Lab File ID:     | 0624_22.D         |
| Instrument:  | CHEM20        | Column:          |                   |
| Purge Volume | 200 (cc)      | Date Received:   |                   |
|              |               | Date Analyzed:   | 06/25/20          |
| Matrix:      | AIR           | Dilution Factor: | 1                 |

CONCENTRATION UNITS: (ppbv or ug/m3)                      ppbv

[illegible]

## 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:\AIR2020\CHEM20\06JUN\24\  
 Data File : 0624\_22.D  
 Acq On : 25 Jun 2020 1:12 am  
 Operator :  
 Client ID : CANISTER BLK 475  
 Lab ID : CANISTER BLK 475  
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 25 09:17:57 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0615.M  
 Quant Title : VOA Standards for 5 point calibration  
 QLast Update : Mon Jun 15 14:41:22 2020  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards           |        |       |          |          |       |          |
| 1) Bromochloromethane        | 6.759  | 130   | 217764   | 10.000   | ng    | 0.00     |
| 36) 1,4-Difluorobenzene      | 7.965  | 114   | 856942   | 10.000   | ng    | 0.00     |
| 53) Chlorobenzene-d5         | 10.508 | 82    | 474854   | 10.000   | ng    | -0.01    |
| 80) Bromochloromethane(sim)  | 6.765  | 130   | 246270   | 10.000   | ng    | # 0.00   |
| 94) 1,4-Difluorobenzene(sim) | 7.971  | 114   | 1005539  | 10.000   | ng    | 0.00     |
| 104) Chlorobenzene-d5(sim)   | 10.513 | 82    | 530112   | 10.000   | ng    | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 62) % Bromofluorobenzene     | 11.359 | 95    | 604435   | 9.444    | ppbv  | 0.00     |
| Spiked Amount                | 10.000 | Range | 70 - 130 | Recovery | =     | 94.40%   |

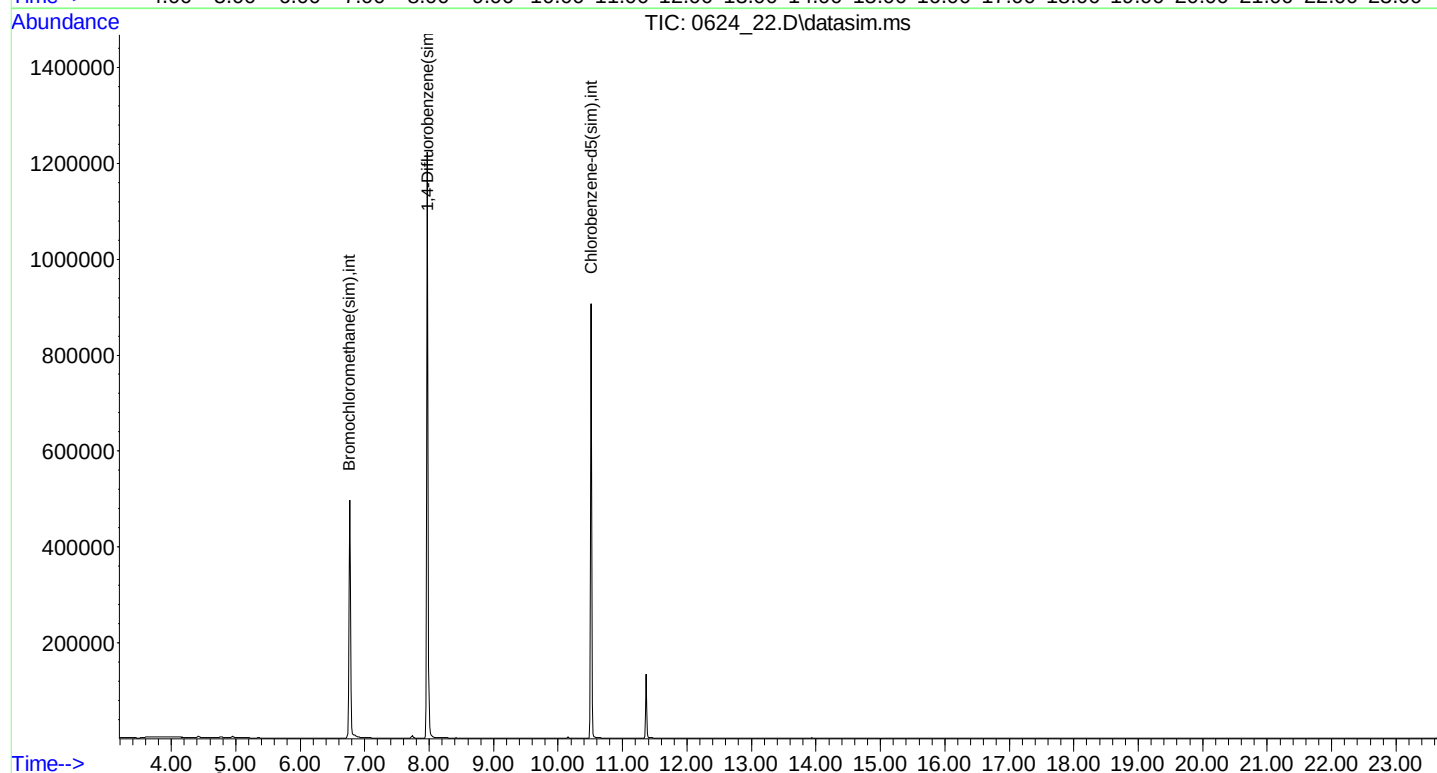
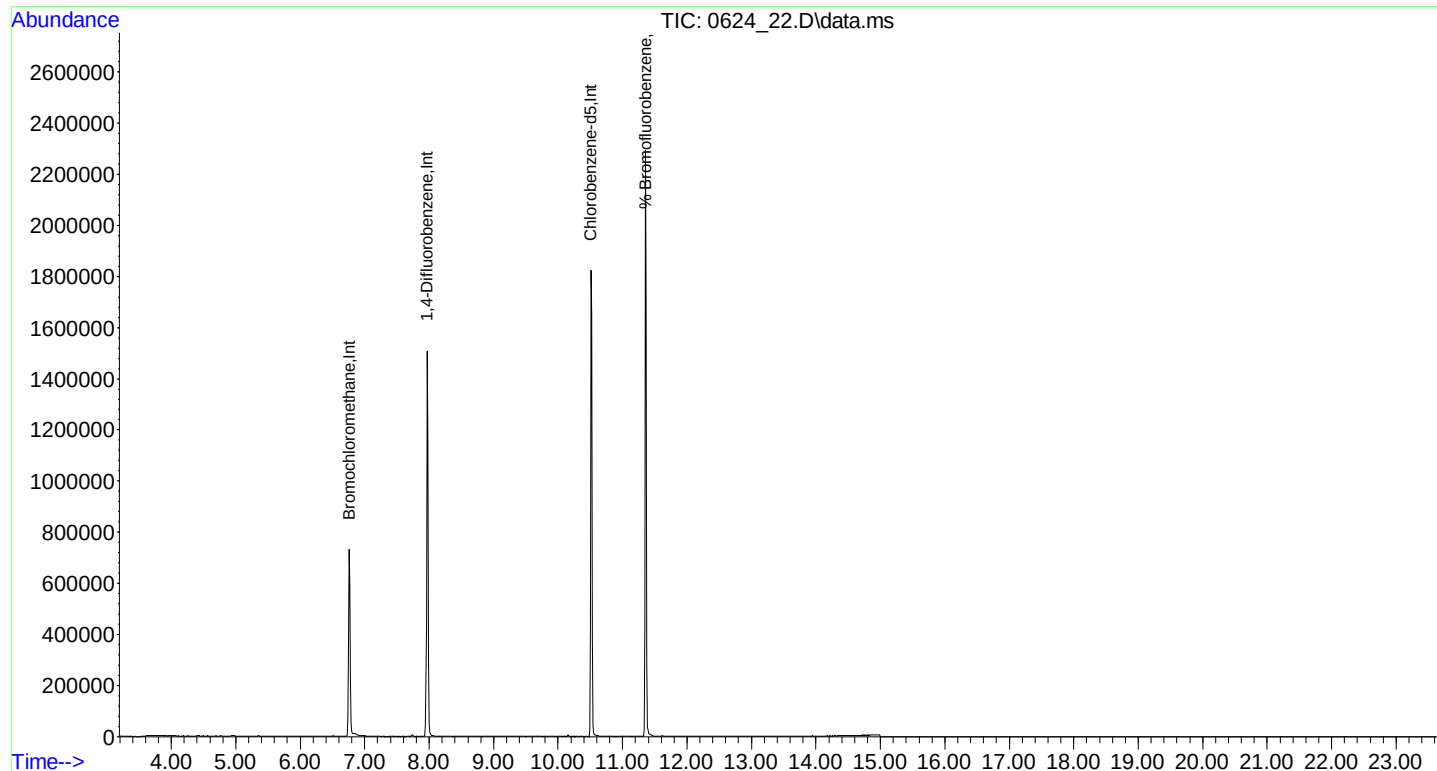
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

# Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\06JUN\24\  
 Data File : 0624\_22.D  
 Acq On : 25 Jun 2020 1:12 am  
 Operator :  
 Client ID : CANISTER BLK 475  
 Lab ID : CANISTER BLK 475  
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 25 09:17:57 2020  
 Quant Method : H:\AIR2020\CHEM20\METHODS\20\_AIR\_0615.M  
 Quant Title : VOA Standards for 5 point calibration  
 Last Update : Mon Jun 15 14:41:22 2020  
 Response via : Initial Calibration



# Injection Log

Data Directory: H:\AIR2020\CHEM20\06JUN\24\

| Line | VL | FileName  | SampleName       | MiscInfo         | Injection Time |
|------|----|-----------|------------------|------------------|----------------|
| 1)   | 33 | 0624_01.D | XXXXXXXXXX       |                  | 06/24/20 11:28 |
| 2)   | 33 | 0624_02.D | XXXXXXXXXX       |                  | 06/24/20 12:04 |
| 3)   | 33 | 0624_03.D | XXXXXXXXXX       |                  | 06/24/20 12:43 |
| 4)   | 33 | 0624_04.D | XXXXXXXXXX       |                  | 06/24/20 13:17 |
| 5)   | 33 | 0624_05.D | XXXXXXXXXX       |                  | 06/24/20 13:52 |
| 6)   | 34 | 0624_06.D | XXXXXXXXXX       |                  | 06/24/20 14:50 |
| 7)   | 35 | 0624_07.D | XXXXXXXXXX       |                  | 06/24/20 15:29 |
| 8)   | 36 | 0624_08.D | XXXXXXXXXX       |                  | 06/24/20 16:08 |
| 9)   | 37 | 0624_09.D | XXXXXXXXXX       |                  | 06/24/20 16:47 |
| 10)  | 38 | 0624_10.D | XXXXXXXXXX       |                  | 06/24/20 17:26 |
| 11)  | 39 | 0624_11.D | XXXXXXXXXX       |                  | 06/24/20 18:05 |
| 12)  | 40 | 0624_12.D | XXXXXXXXXX       |                  | 06/24/20 18:44 |
| 13)  | 41 | 0624_13.D | XXXXXXXXXX       |                  | 06/24/20 19:23 |
| 14)  | 42 | 0624_14.D | XXXXXXXXXX       |                  | 06/24/20 20:02 |
| 15)  | 43 | 0624_15.D | XXXXXXXXXX       |                  | 06/24/20 20:41 |
| 16)  | 44 | 0624_16.D | XXXXXXXXXX       |                  | 06/24/20 21:20 |
| 17)  | 45 | 0624_17.D | XXXXXXXXXX       |                  | 06/24/20 21:59 |
| 18)  | 46 | 0624_18.D | XXXXXXXXXX       |                  | 06/24/20 22:37 |
| 19)  | 46 | 0624_19.D | XXXXXXXXXX       |                  | 06/24/20 23:16 |
| 20)  | 47 | 0624_20.D | XXXXXXXXXX       |                  | 06/24/20 23:55 |
| 21)  | 48 | 0624_21.D | XXXXXXXXXX       |                  | 06/25/20 0:33  |
| 22)  | 49 | 0624_22.D | CANISTER BLK 475 | CANISTER BLK 475 | 06/25/20 1:12  |
| 23)  | 50 | 0624_23.D | XXXXXXXXXX       |                  | 06/25/20 1:50  |
| 24)  | 51 | 0624_24.D | XXXXXXXXXX       |                  | 06/25/20 2:27  |
| 25)  | 52 | 0624_25.D | XXXXXXXXXX       |                  | 06/25/20 3:04  |
| 26)  | 53 | 0624_26.D | XXXXXXXXXX       |                  | 06/25/20 3:42  |
| 27)  | 54 | 0624_27.D | XXXXXXXXXX       |                  | 06/25/20 4:16  |
| 28)  | 55 | 0624_28.D | XXXXXXXXXX       |                  | 06/25/20 4:50  |
| 29)  | 56 | 0624_29.D | XXXXXXXXXX       |                  | 06/25/20 9:52  |
| 30)  | 57 | 0624_30.D | XXXXXXXXXX       |                  | 06/25/20 10:30 |
| 31)  | 58 | 0624_31.D | XXXXXXXXXX       |                  | 06/25/20 11:09 |
| 32)  | 59 | 0624_32.D | XXXXXXXXXX       |                  | 06/25/20 11:48 |
| 33)  | 60 | 0624_33.D | XXXXXXXXXX       |                  | 06/25/20 12:27 |
| 34)  | 61 | 0624_34.D | XXXXXXXXXX       |                  | 06/25/20 13:06 |
| 35)  | 62 | 0624_35.D | XXXXXXXXXX       |                  | 06/25/20 13:46 |
| 36)  | 63 | 0624_36.D | XXXXXXXXXX       |                  | 06/25/20 14:25 |
| 37)  | 64 | 0624_37.D | XXXXXXXXXX       |                  | 06/25/20 15:04 |
| 38)  | 65 | 0624_38.D | XXXXXXXXXX       |                  | 06/25/20 15:42 |
| 39)  | 66 | 0624_39.D | XXXXXXXXXX       |                  | 06/25/20 16:21 |
| 40)  | 67 | 0624_40.D | XXXXXXXXXX       |                  | 06/25/20 17:00 |
| 41)  | 68 | 0624_41.D | XXXXXXXXXX       |                  | 06/25/20 17:39 |
| 42)  | 69 | 0624_42.D | XXXXXXXXXX       |                  | 06/25/20 18:19 |
| 43)  | 70 | 0624_43.D | XXXXXXXXXX       |                  | 06/25/20 19:00 |
| 44)  | 71 | 0624_44.D | XXXXXXXXXX       |                  | 06/25/20 19:39 |
| 45)  | 72 | 0624_45.D | XXXXXXXXXX       |                  | 06/25/20 20:18 |
| 46)  | 73 | 0624_46.D | XXXXXXXXXX       |                  | 06/25/20 20:55 |

# Injection Log

Data Directory: H:\AIR2020\CHEM24\07JUL\12A\

| Line | VL  | FileName  | SampleName             | MiscInfo          | Injection Time |
|------|-----|-----------|------------------------|-------------------|----------------|
| 1)   | 134 | 0712_02.D | BFB TUNE - CCAL 1      | 1ppb cc - 1ppb cc | 07/12/20 22:02 |
| 2)   | 135 | 0712_03.D | XXXXXXXXXX             |                   | 07/13/20 11:14 |
| 3)   | 136 | 0712_04.D | CG31864 LCS            | CG31864 LCS       | 07/13/20 11:50 |
| 4)   | 137 | 0712_05.D | CG31864 LCSD           | CG31864 LCSD      | 07/13/20 12:27 |
| 5)   | 138 | 0712_06.D | XXXXXXXXXX             |                   | 07/13/20 12:58 |
| 6)   | 138 | 0712_07.D | CG31864 BLANK          | CG31864 BLANK     | 07/13/20 13:29 |
| 7)   | 139 | 0712_08.D | XXXXXXXXXX             |                   | 07/13/20 14:05 |
| 8)   | 140 | 0712_09.D | XXXXXXXXXX             |                   | 07/13/20 14:42 |
| 9)   | 141 | 0712_10.D | XXXXXXXXXX             |                   | 07/13/20 15:18 |
| 10)  | 142 | 0712_11.D | IA-3 (CALL CENTER)     | CG31864           | 07/13/20 15:56 |
| 11)  | 143 | 0712_12.D | IA-3 (CALL CENTER) DUP | CG31864 DUP       | 07/13/20 16:35 |
| 12)  | 144 | 0712_13.D | XXXXXXXXXX             |                   | 07/13/20 17:07 |
| 13)  | 145 | 0712_14.D | XXXXXXXXXX             |                   | 07/13/20 17:38 |
| 14)  | 146 | 0712_15.D | XXXXXXXXXX             |                   | 07/13/20 18:10 |
| 15)  | 147 | 0712_16.D | XXXXXXXXXX             |                   | 07/13/20 18:43 |
| 16)  | 148 | 0712_17.D | XXXXXXXXXX             |                   | 07/13/20 19:16 |
| 17)  | 149 | 0712_18.D | XXXXXXXXXX             |                   | 07/13/20 19:53 |
| 18)  | 150 | 0712_19.D | XXXXXXXXXX             |                   | 07/13/20 20:30 |
| 19)  | 151 | 0712_20.D | XXXXXXXXXX             |                   | 07/13/20 21:11 |
| 20)  | 152 | 0712_21.D | XXXXXXXXXX             |                   | 07/13/20 21:56 |
| 21)  | 153 | 0712_22.D | XXXXXXXXXX             |                   | 07/13/20 22:33 |
| 22)  | 154 | 0712_23.D | XXXXXXXXXX             |                   | 07/13/20 23:10 |
| 23)  | 155 | 0712_24.D | XXXXXXXXXX             |                   | 07/13/20 23:45 |
| 24)  | 156 | 0712_25.D | XXXXXXXXXX             |                   | 07/14/20 1:07  |
| 25)  | 157 | 0712_26.D | XXXXXXXXXX             |                   | 07/14/20 1:44  |
| 26)  | 158 | 0712_27.D | XXXXXXXXXX             |                   | 07/14/20 2:21  |
| 27)  | 159 | 0712_28.D | XXXXXXXXXX             |                   | 07/14/20 2:52  |
| 28)  | 160 | 0714_01.D | XXXXXXXXXX             |                   | 07/14/20 3:25  |
| 29)  | 161 | 0714_02.D | XXXXXXXXXX             |                   | 07/14/20 3:59  |
| 30)  | 162 | 0714_03.D | XXXXXXXXXX             |                   | 07/14/20 4:35  |
| 31)  | 163 | 0714_04.D | XXXXXXXXXX             |                   | 07/14/20 5:12  |
| 32)  | 164 | 0714_05.D | XXXXXXXXXX             |                   | 07/14/20 5:43  |
| 33)  | 165 | 0714_06.D | XXXXXXXXXX             |                   | 07/14/20 6:14  |
| 34)  | 166 | 0714_07.D | XXXXXXXXXX             |                   | 07/14/20 6:51  |
| 35)  | 167 | 0714_08.D | XXXXXXXXXX             |                   | 07/14/20 7:27  |
| 36)  | 168 | 0714_09.D | XXXXXXXXXX             |                   | 07/14/20 9:14  |
| 37)  | 169 | 0714_10.D | XXXXXXXXXX             |                   | 07/14/20 9:54  |
| 38)  | 170 | 0714_11.D | XXXXXXXXXX             |                   | 07/14/20 10:30 |
| 39)  | 171 | 0714_12.D | XXXXXXXXXX             |                   | 07/14/20 11:07 |
| 40)  | 172 | 0714_13.D | XXXXXXXXXX             |                   | 07/14/20 11:44 |
| 41)  | 173 | 0714_14.D | XXXXXXXXXX             |                   | 07/14/20 12:32 |
| 42)  | 174 | 0714_15.D | XXXXXXXXXX             |                   | 07/14/20 13:08 |
| 43)  | 175 | 0714_16.D | XXXXXXXXXX             |                   | 07/14/20 13:45 |
| 44)  | 176 | 0714_17.D | XXXXXXXXXX             |                   | 07/14/20 14:22 |
| 45)  | 177 | 0714_18.D | XXXXXXXXXX             |                   | 07/14/20 14:58 |
| 46)  | 178 | 0714_19.D | XXXXXXXXXX             |                   | 07/14/20 15:35 |
| 47)  | 179 | 0714_20.D | XXXXXXXXXX             |                   | 07/14/20 16:11 |
| 48)  | 180 | 0714_21.D | XXXXXXXXXX             |                   | 07/14/20 16:44 |
| 49)  | 181 | 0714_22.D | XXXXXXXXXX             |                   | 07/14/20 17:21 |
| 50)  | 182 | 0714_23.D | XXXXXXXXXX             |                   | 07/14/20 17:58 |
| 51)  | 183 | 0714_24.D | XXXXXXXXXX             |                   | 07/14/20 20:21 |
| 52)  | 184 | 0714_25.D | XXXXXXXXXX             |                   | 07/14/20 20:58 |
| 53)  | 185 | 0714_26.D | XXXXXXXXXX             |                   | 07/14/20 21:35 |
| 54)  | 186 | 0714_27.D | XXXXXXXXXX             |                   | 07/14/20 22:07 |
| 55)  | 187 | 0714_28.D | XXXXXXXXXX             |                   | 07/14/20 22:43 |
| 56)  | 188 | 0714_29.D | XXXXXXXXXX             |                   | 07/14/20 23:15 |
| 57)  | 189 | 0714_30.D | XXXXXXXXXX             |                   | 07/15/20 0:38  |
| 58)  | 190 | 0714_31.D | XXXXXXXXXX             |                   | 07/15/20 1:15  |
| 59)  | 193 | 0714_32.D | XXXXXXXXXX             |                   | 07/15/20 1:46  |
| 60)  | 194 | 0714_35.D | XXXXXXXXXX             |                   | 07/15/20 2:19  |
| 61)  | 195 | 0714_36.D | XXXXXXXXXX             |                   | 07/15/20 2:53  |

# Injection Log

Data Directory: H:\AIR2020\CHEM24\07JUL\10\

| Line | VL | FileName  | SampleName | MiscInfo | Injection Time |
|------|----|-----------|------------|----------|----------------|
| 1)   | 0  | 0711_06.D | XXXXXXXXXX |          | N/A            |
| 2)   | 4  | 0710_01.D | XXXXXXXXXX |          | 07/10/20 18:04 |
| 3)   | 5  | 0710_02.D | XXXXXXXXXX |          | 07/10/20 18:35 |
| 4)   | 6  | 0710_03.D | XXXXXXXXXX |          | 07/10/20 19:06 |
| 5)   | 5  | 0710_04.D | BFB TUNE   | 0/0      | 07/10/20 19:38 |
| 6)   | 7  | 0710_05.D | ICAL 0.02  | 0.02     | 07/10/20 20:09 |
| 7)   | 8  | 0710_06.D | ICAL 0.035 | 0.035    | 07/10/20 20:41 |
| 8)   | 9  | 0710_07.D | ICAL 0.05  | 0.05     | 07/10/20 21:13 |
| 9)   | 10 | 0710_08.D | ICAL 0.1   | 0.10     | 07/10/20 21:46 |
| 10)  | 11 | 0710_09.D | ICAL 0.5   | 0.5      | 07/10/20 22:23 |
| 11)  | 12 | 0710_10.D | ICAL 2.5   | 2.5      | 07/10/20 23:00 |
| 12)  | 13 | 0710_11.D | ICAL 5     | 5.0      | 07/10/20 23:31 |
| 13)  | 14 | 0710_12.D | ICAL 25    | 25       | 07/11/20 0:53  |
| 14)  | 15 | 0710_13.D | ICAL 40    | 40       | 07/11/20 1:33  |
| 15)  | 16 | 0710_14.D | XXXXXXXXXX |          | 07/11/20 2:05  |
| 16)  | 17 | 0710_15.D | ICAL 1     | 1ppb     | 07/11/20 2:38  |
| 17)  | 18 | 0710_16.D | ICAL 0.2   | 0.2ppb   | 07/11/20 3:12  |
| 18)  | 19 | 0710_17.D | ICAL 10    | 10ppb    | 07/11/20 3:45  |
| 19)  | 20 | 0710_18.D | XXXXXXXXXX |          | 07/11/20 4:22  |
| 20)  | 21 | 0710_19.D | XXXXXXXXXX |          | 07/11/20 4:53  |
| 21)  | 22 | 0710_20.D | XXXXXXXXXX |          | 07/11/20 5:25  |
| 22)  | 23 | 0710_21.D | XXXXXXXXXX |          | 07/11/20 6:02  |
| 23)  | 24 | 0710_22.D | XXXXXXXXXX |          | 07/11/20 6:39  |
| 24)  | 25 | 0710_23.D | XXXXXXXXXX |          | 07/11/20 7:15  |
| 25)  | 26 | 0710_24.D | XXXXXXXXXX |          | 07/11/20 7:52  |
| 26)  | 27 | 0710_25.D | XXXXXXXXXX |          | 07/11/20 8:25  |
| 27)  | 28 | 0710_26.D | XXXXXXXXXX |          | 07/11/20 8:58  |
| 28)  | 29 | 0710_27.D | XXXXXXXXXX |          | 07/11/20 9:31  |
| 29)  | 30 | 0710_28.D | XXXXXXXXXX |          | 07/11/20 10:03 |
| 30)  | 31 | 0710_29.D | XXXXXXXXXX |          | 07/11/20 10:36 |
| 31)  | 32 | 0710_30.D | XXXXXXXXXX |          | 07/11/20 11:09 |
| 32)  | 33 | 0710_31.D | XXXXXXXXXX |          | 07/11/20 11:41 |
| 33)  | 34 | 0710_32.D | XXXXXXXXXX |          | 07/11/20 12:14 |
| 34)  | 35 | 0710_33.D | XXXXXXXXXX |          | 07/11/20 12:47 |
| 35)  | 36 | 0710_34.D | XXXXXXXXXX |          | 07/11/20 13:19 |
| 36)  | 37 | 0710_35.D | XXXXXXXXXX |          | 07/11/20 13:52 |
| 37)  | 38 | 0710_36.D | XXXXXXXXXX |          | 07/11/20 14:24 |
| 38)  | 39 | 0710_37.D | XXXXXXXXXX |          | 07/11/20 14:56 |
| 39)  | 40 | 0711_01.D | XXXXXXXXXX |          | 07/11/20 15:29 |
| 40)  | 41 | 0711_02.D | XXXXXXXXXX |          | 07/11/20 16:03 |
| 41)  | 42 | 0711_03.D | XXXXXXXXXX |          | 07/11/20 16:40 |
| 42)  | 43 | 0711_04.D | XXXXXXXXXX |          | 07/11/20 17:11 |
| 43)  | 44 | 0711_05.D | XXXXXXXXXX |          | 07/11/20 17:42 |

APPENDIX E  
DATA USABILITY SUMMARY REPORT (MARCH 2021)



**BUILDING 700 (330D) STAR GROUP  
CALL CENTER INDOOR AIR QUALITY  
SAMPLING DATA USABILITY  
SUMMARY REPORT**

**AT**

**IPARK 84  
FORMER IBM EAST FISHKILL FACILITY**

**MARCH 2021**

**PREPARED FOR:**

**JESSICA LACLAIR  
NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION  
DEPT. OF ENVIRONMENTAL REMEDIATION  
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**WALDEN ENVIRONMENTAL ENGINEERING, PLLC**

**Industry Leader in Environmental Engineering Consulting**

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## **Data Usability Summary Report**

### Indoor Air Quality Investigation

iPark 84, Former IBM East Fishkill Facility

Building 700 (formerly Building 330D) – Star Group (Meehan Oil) Call Center

This Data Usability Summary Report (DUSR) has been prepared to validate the results of air sampling conducted in Building 700 (formerly Building 330D) at the above-referenced facility. This sampling was conducted on July 7, 2020 and July 9, 2020 in support of a pre-occupancy evaluation. Walden performed the sampling in accordance with the indoor air quality testing plan (dated June 11, 2020) and the conditional approval letter (dated June 30, 2020) received from the New York State Department of Environmental Conservation (NYSDEC) following NYSDEC and New York State Department of Health (NYSDOH) review of the Work Plan.

A summary of the Star Group (Meehan Oil) Call Center in Building 700 (formerly Building 330D) sampling results was submitted to NYSDEC and NYSDOH in a report dated September 8, 2020. NYSDEC approved occupancy of the Star Group (Meehan Oil) Call Center Building 700 (formerly Building 330D) Space in a letter dated October 1, 2020.

This DUSR has been prepared in accordance with NYSDEC Draft DER-10 Appendix 2B – Guidance for Data Deliverables and the Development of Data Usability Summary Reports. The DUSR provides a thorough evaluation of analytical data without using the services of an independent third-party data validator. The primary objective of the DUSR is to determine whether or not the data presented meets project specific criteria for data quality and use.

The analytical data was evaluated by Mr. Lawrence Zeman (Walden), whose experience and qualifications to prepare the DUSR for this project are presented in the attached resume (see Attachment A). The air samples collected for laboratory analysis were submitted to Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, NH, a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory (NY Lab Registration #11301), and analyzed for volatile organic compounds (VOCs) via U.S. Environmental Protection Agency (USEPA) Modified Method TO-15 with the analytical detection limits set forth in the NYSDEC approved indoor air quality testing plan approved on June 11, 2020. The DUSR process consisted of evaluating the analytical data package produced by Phoenix and answering the following questions.

**1. Were there any deviations in the sampling protocol which deviated from established sampling procedures?**

The air samples were collected in laboratory provided individually certified, 6-liter Summa<sup>®</sup> canisters equipped with individually certified flow regulators. The regulators were calibrated by the laboratory for a sampling period of 8 hours; this sampling duration was chosen in accordance with NYSDOH guidance for indoor air sampling of a commercial workspace with a single shift, to reflect the typical exposure scenario. The regulators served to maintain flow rates below the required maximum rate of 0.2 liters (200 milliliters) per minute during the sampling period to minimize outdoor air infiltration.

**2. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables?**

The sampling and analytical program outlined in Building 700 (formerly Building 330D) *Indoor Air Quality Testing Plan* was designed to conform to the NYSDEC ASP Category B and USEPA CLP deliverables criteria. Both field sampling and laboratory analytical activities were performed with built-in QA/QC programs. Duplicate samples were collected at a minimum of one (1) sample per ten (10) samples collected. The analytical laboratory (Phoenix) included method blanks and batch QA/QC samples as part of their standard QA/QC program. Additionally, the samples were handled in compliance with the holding time allowances.

**3. Have all holding times been met?**

Times of sample receipt, extraction, and analysis have been evaluated to determine whether the holding time specifications have been met. All of the samples were analyzed within the specified holding times.

**4. Do all 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?**

All of the primary sample and QC data were reviewed. Duplicate sample analysis demonstrated a reasonable level of accuracy in the analytical results, and all of the QA/QC data met the protocol-required criteria with the exception as noted below.

- The continuing calibration exceeded the maximum percent deviation of 20% for Ethylbenzene, m,p-Xylene and o-Xylene for samples collected on July 7, 2020.

In summary, although three (3) analytes exceeded the continuing calibration maximum percent deviation, all other QA/QC acceptance criteria was met and the reliability of the laboratory results should not be affected.

**5. Have all the data been generated using established and agreed upon analytical protocols?**

Laboratory analytical protocols have been developed by the USEPA and are published in USEPA Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15 (Second Edition, January 1999). The review of the laboratory deliverables indicated that the analytical data for this project was generated following these standard protocols.

**6. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?**

An evaluation of the raw data confirmed the accuracy of the results provided in the data summary sheets and the quality control verification forms included in the analytical data package prepared by the laboratory.

**7. Have the correct data qualifiers been used?**

The laboratory provided a list of qualifiers used in their data reporting. QC failures such as potential sample contamination by laboratory solvents or estimation of sample result values due to analyte concentrations detected above calibration ranges were checked back to the reported data to determine whether the qualifiers were properly used. The evaluation indicated that the laboratory flagged the data using the correct data qualifiers when necessary. The data qualifiers comply with the NYSDEC Analytical Services Protocol (ASP) 95 revised guidelines.

**8. Have the minimum reporting limits been met?**

The minimum reporting limits specified in the NYSDEC approved “*Indoor Air Quality Testing Plan*” are as follows:

| ANALYTE LIST           | MINIMUM REPORTING LIMIT (ug/m <sup>3</sup> ) |
|------------------------|----------------------------------------------|
| 1,1,1-Trichloroethane  | 1.1                                          |
| 1,1-Dichloroethene     | 0.8                                          |
| 1,2,4-Trichlorobenzene | 7.4                                          |
| 1,2-Dichlorobenzene    | 1.2                                          |
| 1,3-Dichlorobenzene    | 1.2                                          |
| 1,4-Dichlorobenzene    | 1.2                                          |
| Acetone                | 2.4                                          |

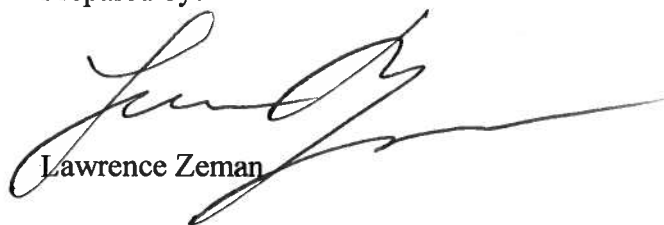
|                          |      |
|--------------------------|------|
| Benzene                  | 0.64 |
| Carbon Tetrachloride     | 0.2  |
| Chlorobenzene            | 0.92 |
| Cis-1,2-Dichloroethene   | 0.8  |
| Dichlorodifluoromethane  | 1.0  |
| Ethylbenzene             | 0.86 |
| m,p-Xylene               | 0.86 |
| Methylene Chloride       | 1.4  |
| o-Xylene                 | 0.86 |
| Tetrachloroethene        | 1.4  |
| Toluene                  | 0.77 |
| Trichloroethene          | 0.22 |
| Trichlorofluoromethane   | 1.1  |
| Trichlorotrifluoroethane | 1.5  |
| Vinyl Chloride           | 0.06 |

All reportable VOCs meet the minimum required reporting limits for all samples collected at Building 700 (formerly Building 330D) on July 7, 2020 and July 9, 2020.

### **Summary**

In summary, the analytical data package review conducted when preparing this DUSR found no data deficiencies, analytical protocol deviations, or quality control problems that impact the quality of the data. No significant QC exceedances were identified and it was determined that none of the data should be rejected.

Prepared by:



Lawrence Zeman

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**Attachment A**

**Resume of Environmental Professional**



## Lawrence F. Zeman

### Project Scientist II



Lawrence has 20 years of environmental and lab consulting experience, taking on difficult laboratory issues and QA/QC. He is very well versed in areas as diverse as regulatory compliance, test protocol development and implementation, management of instrument repair and maintenance, field inspections and on-site audits, correlation studies of various analyses and engineering/technical reporting.

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### SELECTED RELEVANT EXPERIENCE

#### Various Clients, New York

- Performed sample collection of various sample types at industrial facilities and construction & remediation project sites;  
Conducted soil sample collection, field activities oversight and continuous air monitoring for Community Air Monitoring Program (CAMP) in accordance with DER-10 as follows:
  - Elmhurst Tank Park & Playground, Queens, NY (2009 – 2011);
  - Calvert Vaux Park and Athletic Fields, Brooklyn, NY (2009 – 2011), as an Independent Environmental Monitor (IEM) on-site technician;
  - Harlem Rive Greenway, Bronx, NY (2011 – 2012);
  - Beach Channel H.S. Athletic Fields (2016);
  - P.S. 63M William McKinley School, Manhattan, NY (2016);
  - P.S. 131 Abigail Adams Public School, Queens, NY (2017);
  - Forest Hills High School, Queens, NY (2017)
- Developed and implemented new testing protocols and test procedures;
- Conducted instrumentation repair and scheduled maintenance;
- Conducted correlation studies of various analytic procedures;
- Verified laboratory Quality Assurance and Quality Control procedures and data;
- Responsible for regulatory compliance and quality control;
- Prepared and submitted facilities' annual Zoning Performance Standards Compliance Reports, including noise, vibration, odor and opacity testing for DSNY permit renewal;
- Provided environmental services to ensure compliance for facility's NYS DEC Title V Air Facility Permit. Completed monthly, semi-annual and annual compliance reports;
- Conducted field Inspections and on-site audits;
- Performed field measurements and recording of Noise and Vibration;
- Prepared Engineering & Technical Reports;
- Prepared New York City Community Right-To-Know Law and SARA reports for Industrial facilities

### EDUCATION

*B.A. Biology, Minor in  
Chemistry* Queens College

### LICENSES/ CERTIFICATIONS

New York State ELAP  
Laboratory Director

New York State ELAP  
Laboratory Microbiology  
Assistant Director

New York Department of  
Health Laboratory  
Technologist

OSHA HAZWOPER 40-hour  
& OSHA 10-hour Certified