

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081321\  
 Data File : VL037447.D  
 Acq On : 13 Aug 2021 14:00  
 Operator : SY/AP  
 Sample : M1458-14 0.03 LOQ  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-01-QT1-2021

Manual Integrations  
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Quant Time: Aug 16 02:59:43 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 13 2021  
 QLast Update : Fri Aug 13 01:37:35 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1233959  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3755620  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3263327  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2301753  | 9.83     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.30% |

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units | Ovalue |
|-------------------------------|-------|------|----------|-------|-------|--------|
| 5) Vinyl Chloride             | 3.25  | 62   | 4045m    | 0.042 | ppbv  |        |
| 32) 1,1,1-Trichloroethane     | 6.50  | 97   | 7882m    | 0.034 | ppbv  |        |
| 35) Carbon Tetrachloride      | 7.01  | 117  | 8550m    | 0.037 | ppbv  |        |
| 38) Trichloroethene           | 7.82  | 130  | 5167m    | 0.037 | ppbv  |        |
| 52) Tetrachloroethene         | 11.21 | 164  | 4755m    | 0.036 | ppbv  |        |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 11955m   | 0.044 | ppbv  |        |

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

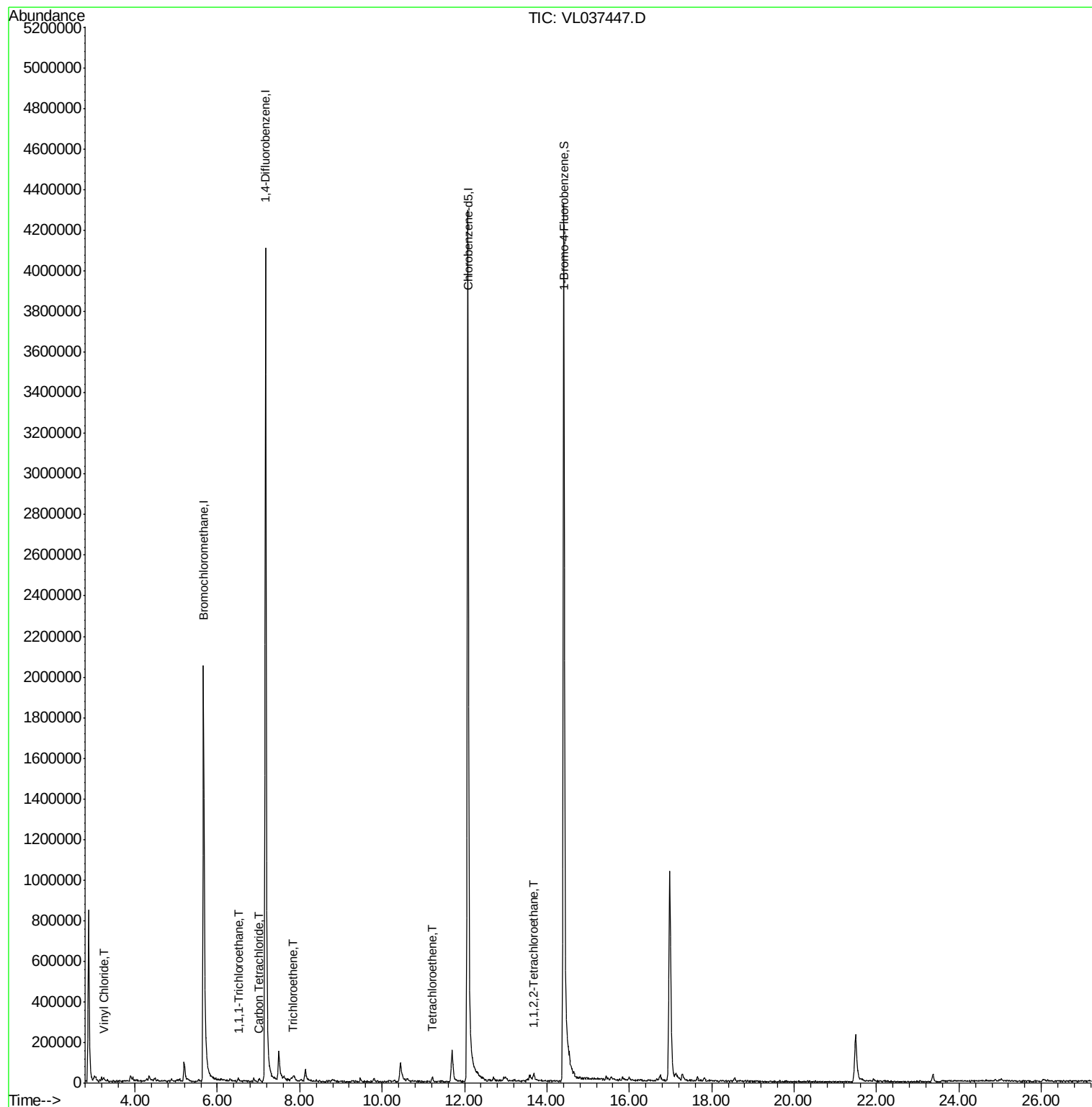
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081321\  
Data File : VL037447.D  
Acq On : 13 Aug 2021 14:00  
Operator : SY/AP  
Sample : M1458-14 0.03 LOQ  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

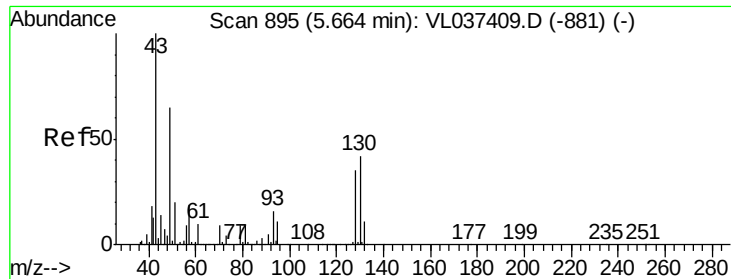
Instrument :  
MSVOA\_L  
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LOQ-AIR-01-QT1-2021

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Quant Time: Aug 16 02:59:43 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Aug 13 01:37:35 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA\_L

ClientSampleId :

LOQ-AIR-01-QT1-2021

Tot Ion: 49 Resp: 1233959

Ion Ratio Lower Upper

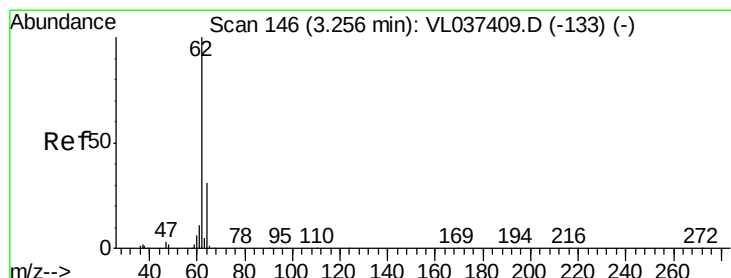
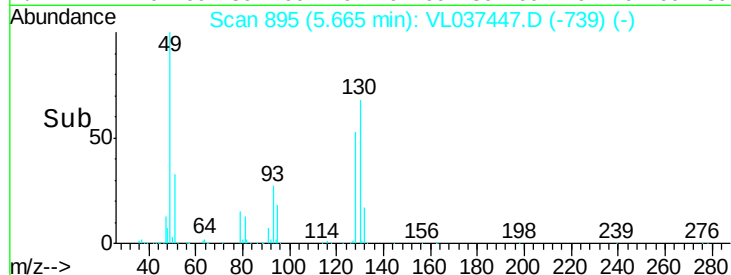
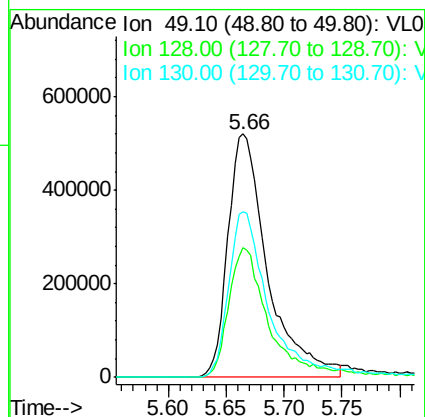
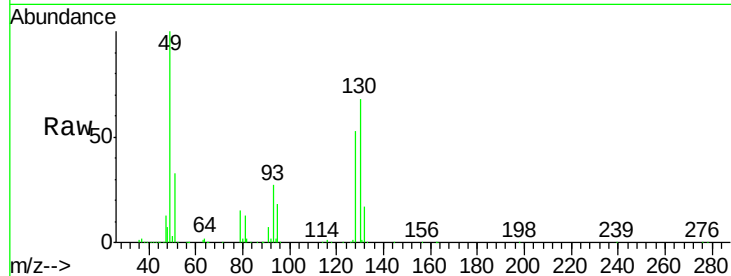
49 100

128 54.7 27.9 83.6

130 71.0 34.6 103.8

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#5

Vinyl Chloride

Concen: 0.042 ppbv m

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL037447.D

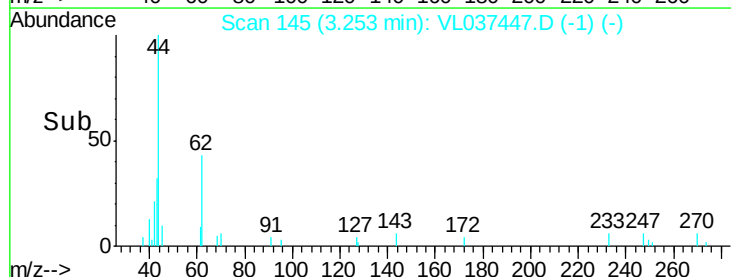
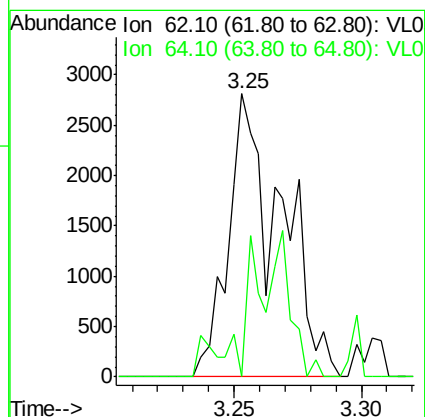
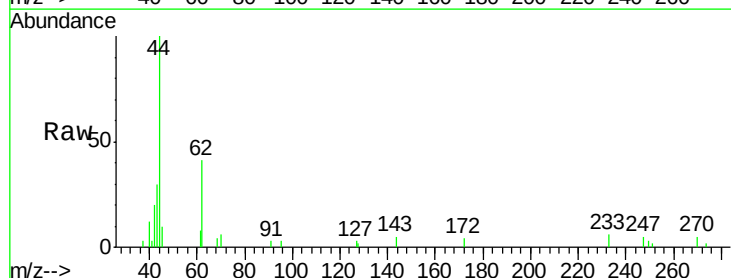
Acq: 13 Aug 2021 14:00

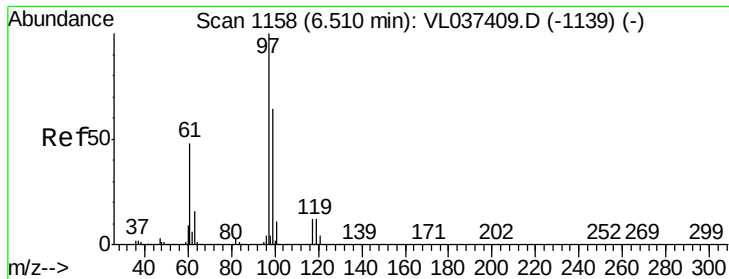
Tgt Ion: 62 Resp: 4045

Ion Ratio Lower Upper

62 100

64 0.0 25.0 37.6#





#32

1,1,1-Trichloroethane

Concen: 0.034 ppbv m

RT: 6.50 min Scan# 1155

Delta R.T. -0.01 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA\_L

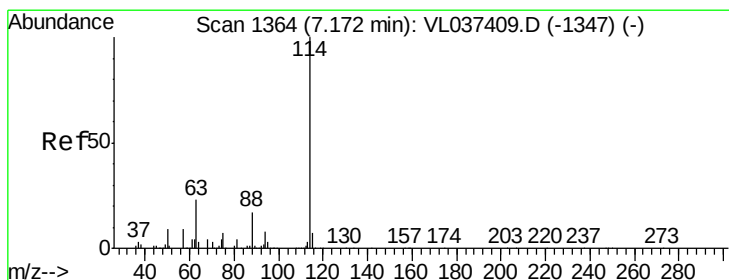
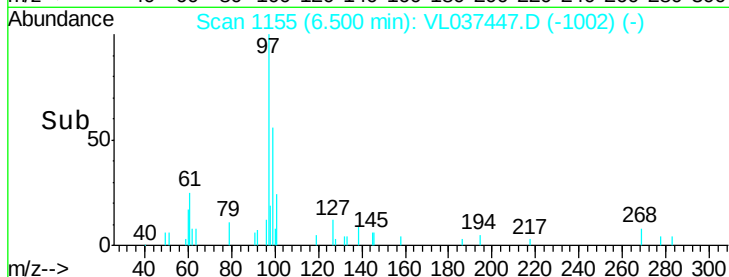
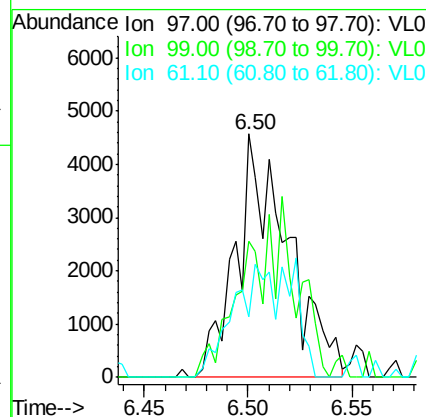
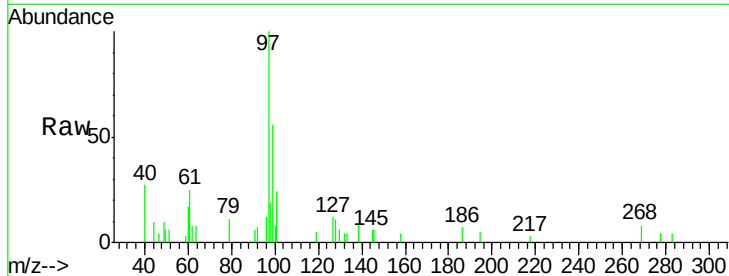
ClientSampleId :

LOQ-AIR-01-QT1-2021

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 97    | Resp: | 7882  |
| Ion Ratio | Lower | Upper |       |
| 97        | 100   |       |       |
| 99        | 0.0   | 52.3  | 78.5# |
| 61        | 0.0   | 40.1  | 60.1# |

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

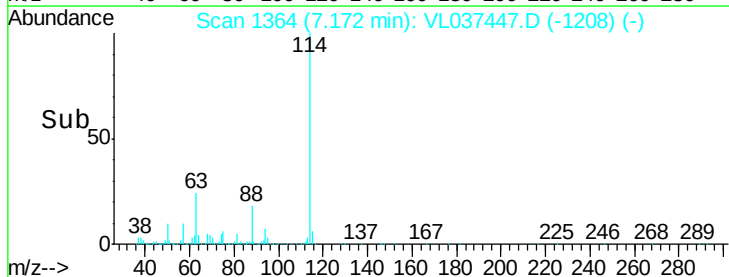
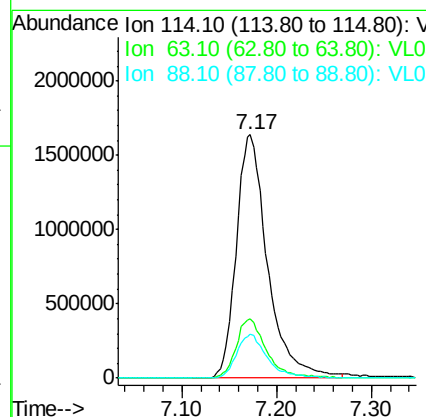
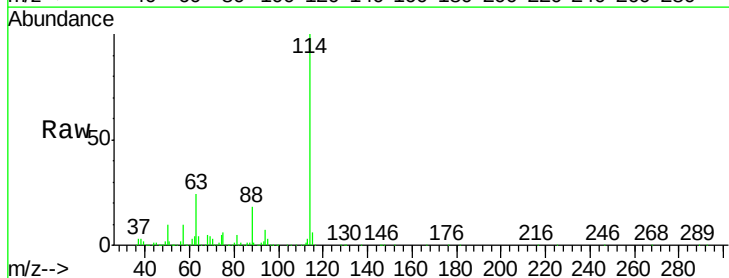
RT: 7.17 min Scan# 1364

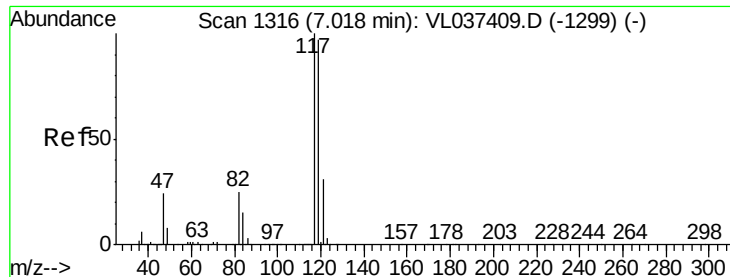
Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 114   | Resp: | 3755620 |
| Ion Ratio | Lower | Upper |         |
| 114       | 100   |       |         |
| 63        | 24.0  | 19.4  | 29.2    |
| 88        | 18.0  | 14.2  | 21.4    |





#35

Carbon Tetrachloride

Concen: 0.037 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA\_L

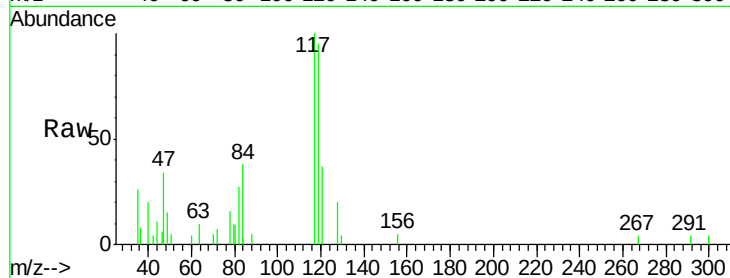
ClientSampleId :

LOQ-AIR-01-QT1-2021

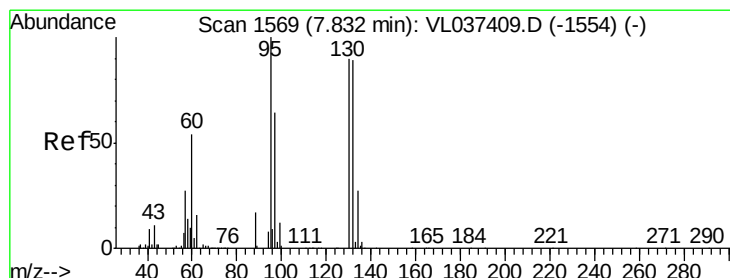
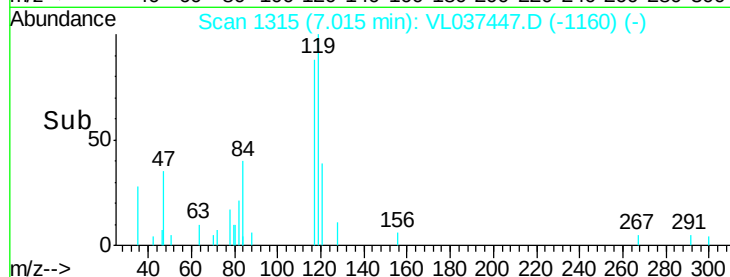
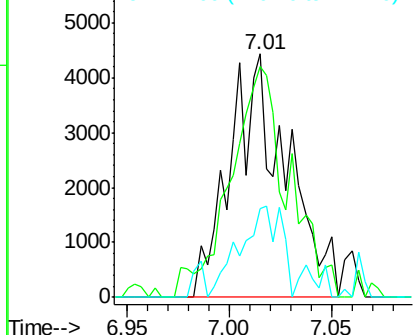
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 117   | Resp: | 8550  |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 94.7  | 77.5  | 116.3 |
| 121       | 36.6  | 24.7  | 37.1  |

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Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V



#38

Trichloroethene

Concen: 0.037 ppbv m

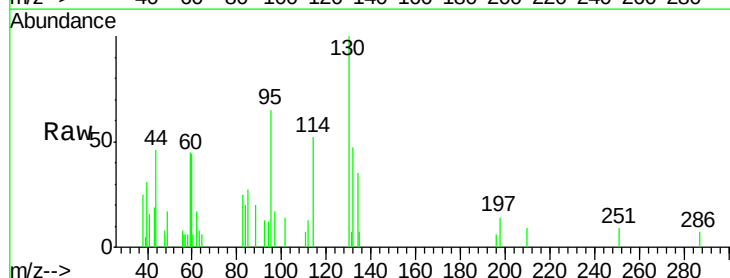
RT: 7.82 min Scan# 1566

Delta R.T. -0.01 min

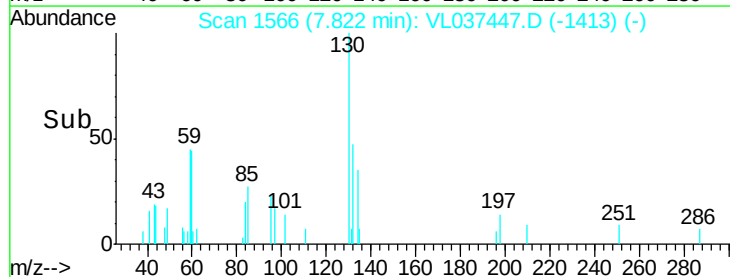
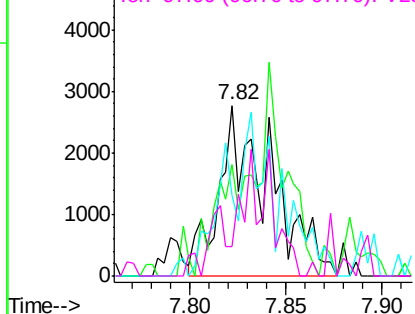
Lab File: VL037447.D

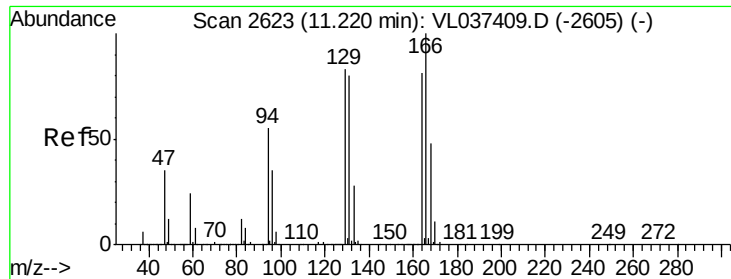
Acq: 13 Aug 2021 14:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 130   | Resp: | 5167   |
| Ion Ratio | Lower | Upper |        |
| 130       | 100   |       |        |
| 95        | 65.2  | 88.6  | 132.8# |
| 132       | 47.0  | 79.2  | 118.8# |
| 97        | 17.3  | 56.9  | 85.3#  |



Abundance Ion 130.00 (129.70 to 130.70): V  
Ion 95.00 (94.70 to 95.70): VL0  
Ion 132.00 (131.70 to 132.70): V  
Ion 97.00 (96.70 to 97.70): VL0





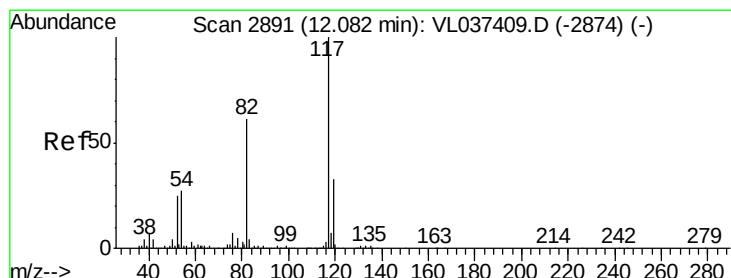
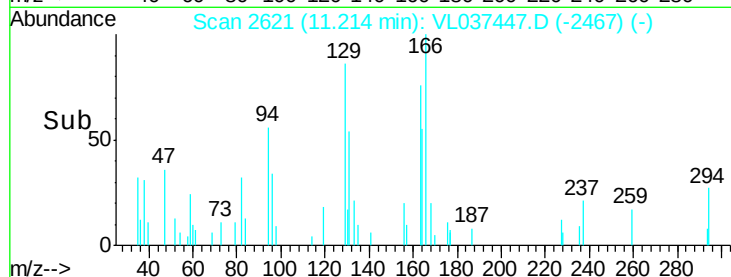
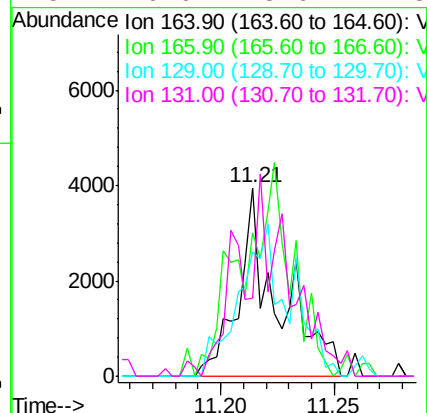
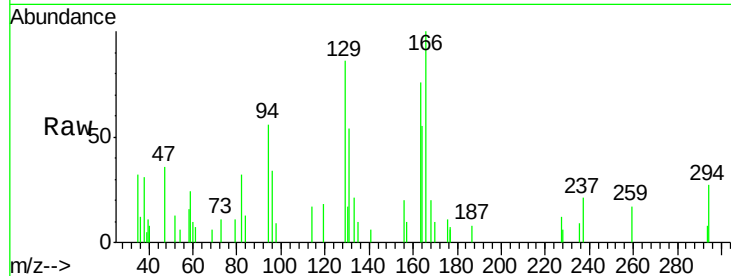
#52  
Tetrachloroethene  
Concen: 0.036 ppbv m  
RT: 11.21 min Scan# 2621  
Delta R.T. -0.01 min  
Lab File: VL037447.D  
Acq: 13 Aug 2021 14:00

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-01-QT1-2021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 131.5 | 98.6  | 147.8 |
| 129     | 113.2 | 82.0  | 123.0 |
| 131     | 70.9  | 78.6  | 117.8 |

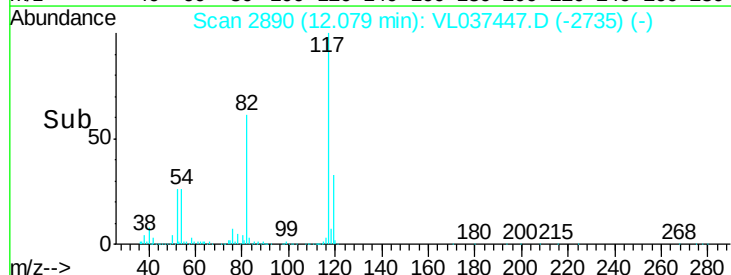
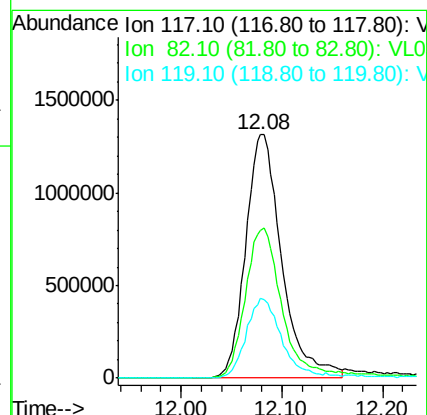
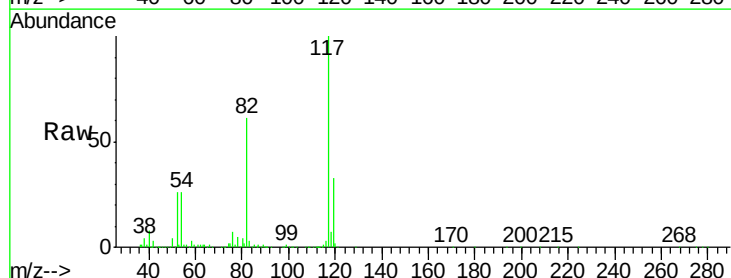
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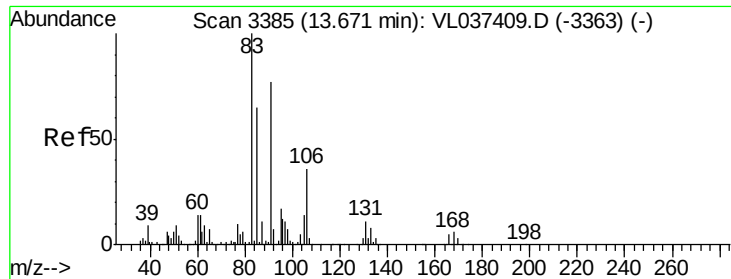
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#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.08 min Scan# 2890  
Delta R.T. -0.00 min  
Lab File: VL037447.D  
Acq: 13 Aug 2021 14:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 64.7  | 53.1  | 79.7  |
| 119     | 33.1  | 28.0  | 42.0  |





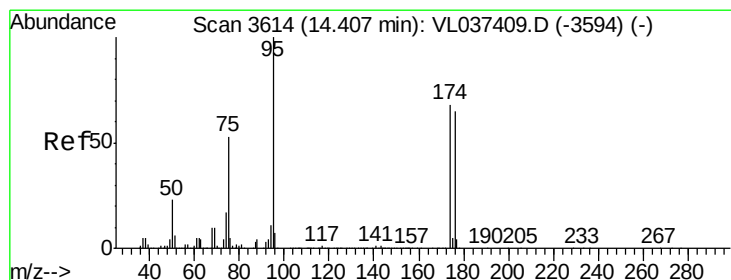
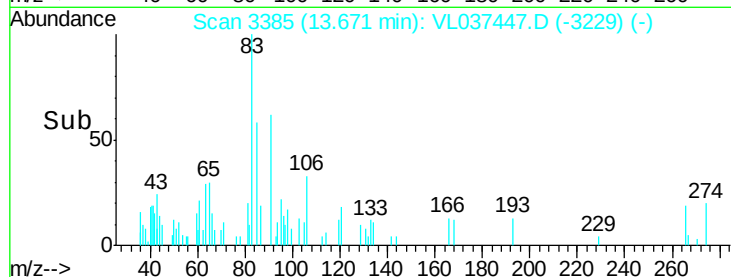
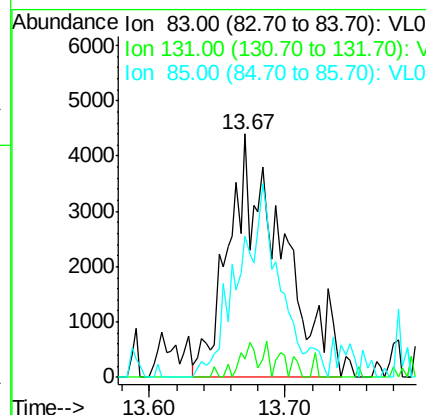
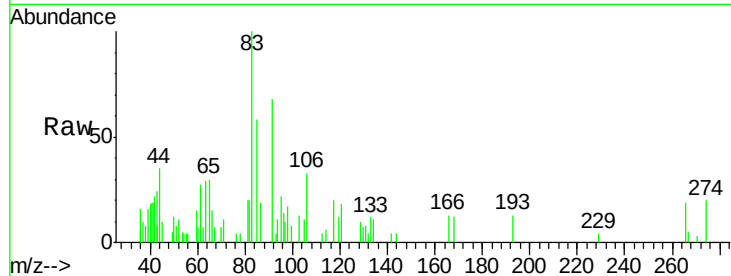
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.044 ppbv m  
 RT: 13.67 min Scan# 3385  
 Delta R.T. 0.00 min  
 Lab File: VL037447.D  
 Acq: 13 Aug 2021 14:00

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOQ-AIR-01-QT1-2021

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 83      | 100   |       |        |
| 131     | 0.0   | 5.1   | 15.4#  |
| 85      | 0.0   | 33.4  | 100.2# |

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#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.833 ppbv  
 RT: 14.41 min Scan# 3615  
 Delta R.T. 0.00 min  
 Lab File: VL037447.D  
 Acq: 13 Aug 2021 14:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 77.1  | 59.6  | 89.4  |
| 175     | 5.6   | 4.3   | 6.5   |

