

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\  
 Data File : VL036967.D  
 Acq On : 18 May 2021 13:51  
 Operator : SY/AP  
 Sample : M2262-13 0.03  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT2-2021

Manual Integrations  
 APPROVED

MMDadoda  
 5/20/2021 5:55:13 PM

Quant Time: May 19 03:50:47 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1288137  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3658485  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 3298389  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2482098  | 10.02    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.20% |

| Target Compounds              |       |     |        |       | Ovalue |
|-------------------------------|-------|-----|--------|-------|--------|
| 5) Vinyl Chloride             | 3.25  | 62  | 3553m  | 0.040 | ppbv   |
| 32) 1,1,1-Trichloroethane     | 6.48  | 97  | 9707m  | 0.040 | ppbv   |
| 35) Carbon Tetrachloride      | 6.99  | 117 | 8951m  | 0.037 | ppbv   |
| 38) Trichloroethene           | 7.82  | 130 | 6624m  | 0.049 | ppbv   |
| 52) Tetrachloroethene         | 11.20 | 164 | 6046m  | 0.048 | ppbv   |
| 63) 1,1,2,2-Tetrachloroethane | 13.66 | 83  | 12497m | 0.046 | ppbv   |

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

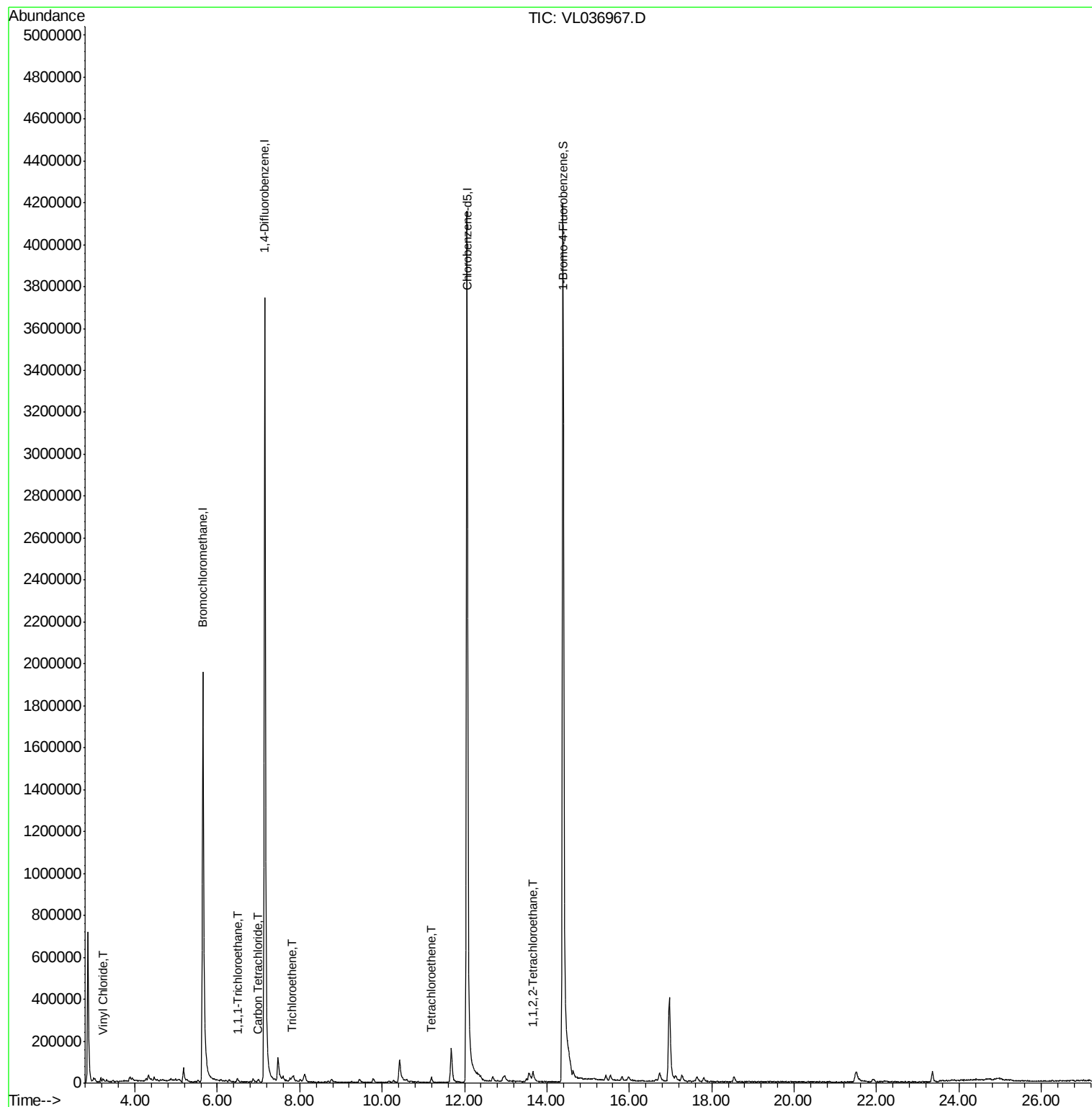
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051821\  
Data File : VL036967.D  
Acq On : 18 May 2021 13:51  
Operator : SY/AP  
Sample : M2262-13 0.03  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

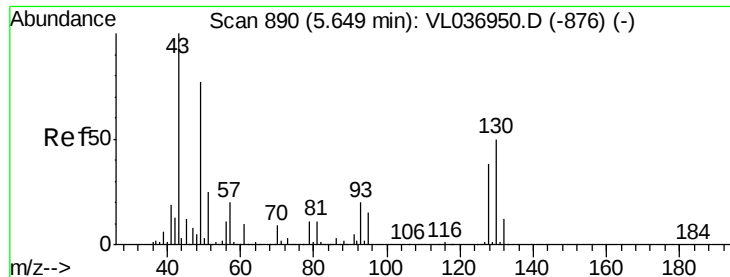
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT2-2021

Manual Integrations  
APPROVED

MMDadoda  
5/20/2021 5:55:13 PM

Quant Time: May 19 03:50:47 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LTue May  
QLast Update : Tue May 18 12:00:15 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

Tot Ion: 49 Resp: 1288137

Ion Ratio Lower Upper

49 100

128 53.7 26.9 80.7

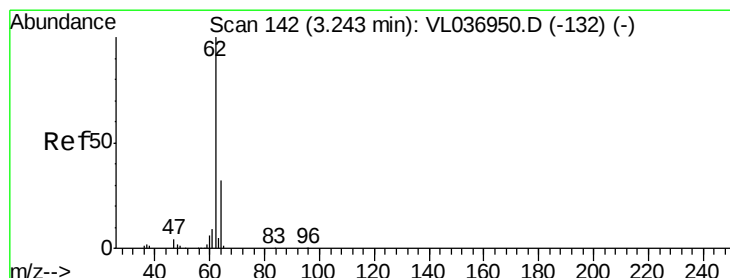
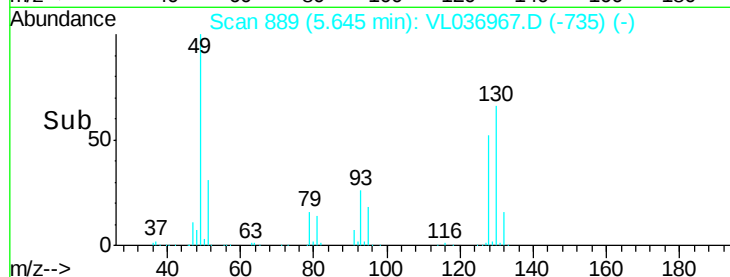
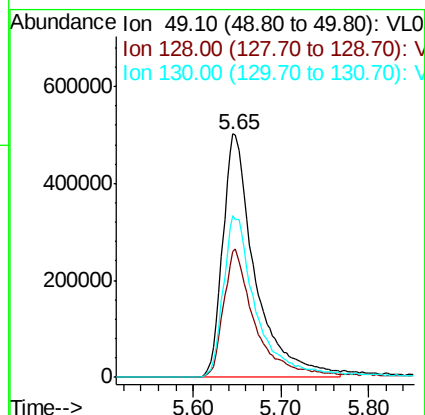
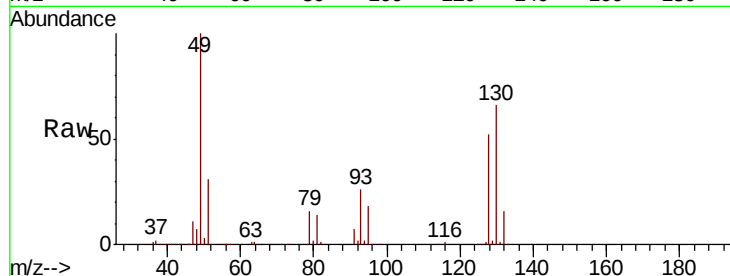
130 69.5 33.8 101.4

Manual Integrations

APPROVED

MMDadoda

5/20/2021 5:55:13 PM



#5

Vinyl Chloride

Concen: 0.040 ppbv m

RT: 3.25 min Scan# 143

Delta R.T. 0.00 min

Lab File: VL036967.D

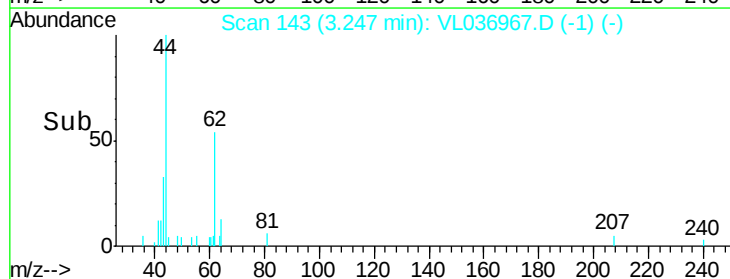
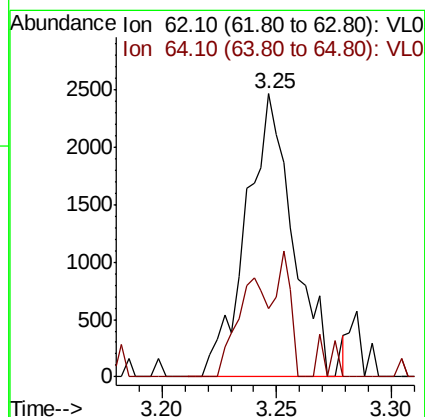
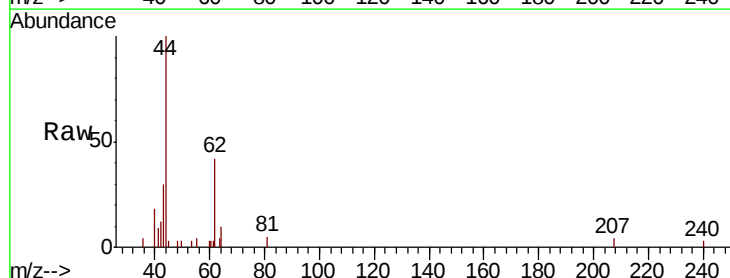
Acq: 18 May 2021 13:51

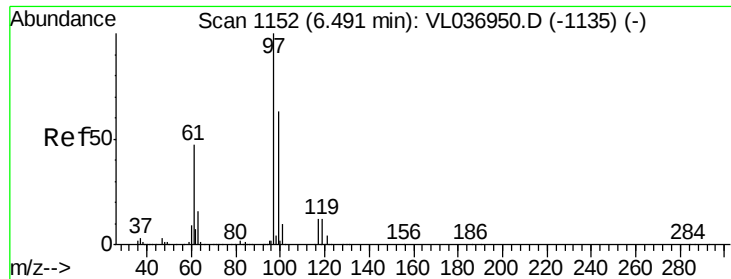
Tgt Ion: 62 Resp: 3553

Ion Ratio Lower Upper

62 100

64 24.3 25.9 38.9#





#32

1,1,1-Trichloroethane

Concen: 0.040 ppbv m

RT: 6.48 min Scan# 1149

Delta R.T. -0.01 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Instrument :

MSVOA\_L

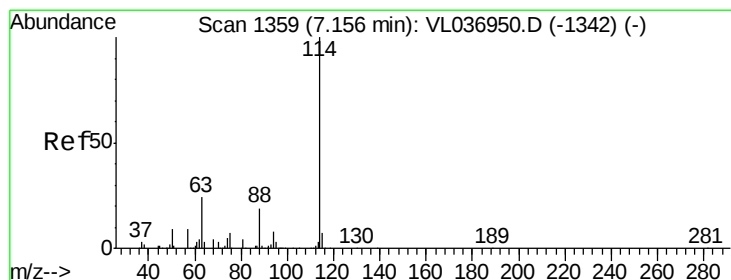
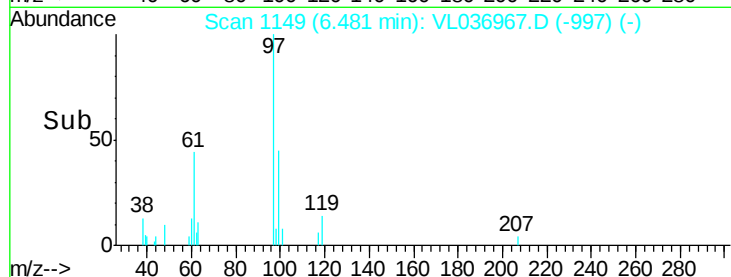
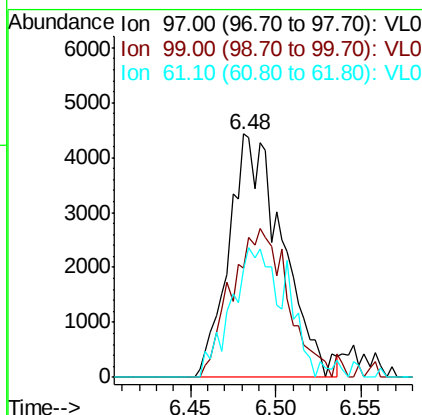
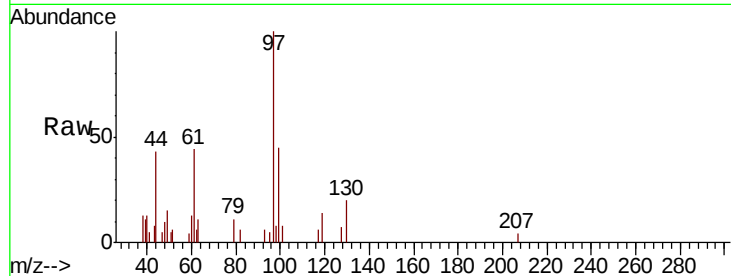
ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 9707  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 66.5  | 51.9  | 77.9  |
| 61       | 0.0   | 37.6  | 56.4# |

Manual Integrations  
APPROVED

MMDadoda  
5/20/2021 5:55:13 PM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

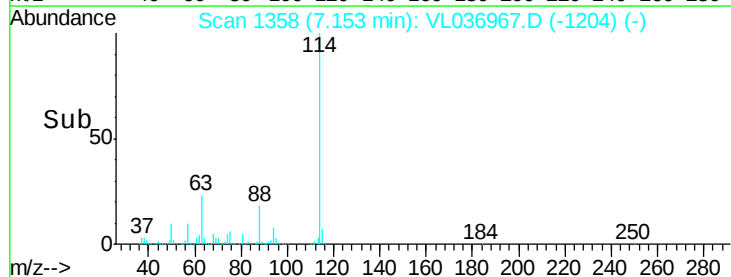
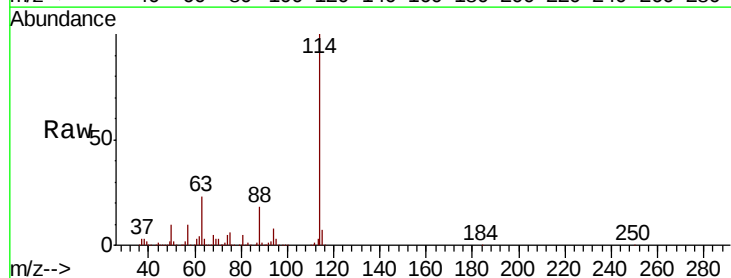
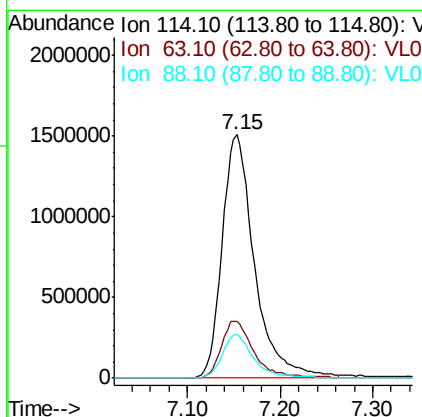
RT: 7.15 min Scan# 1358

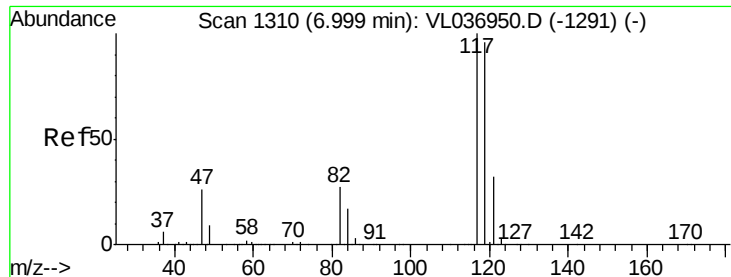
Delta R.T. -0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 114   | Resp: | 3658485 |
| Ion      | Ratio | Lower | Upper   |
| 114      | 100   |       |         |
| 63       | 24.0  | 19.6  | 29.4    |
| 88       | 17.5  | 14.6  | 21.8    |





#35

Carbon Tetrachloride

Concen: 0.037 ppbv m

RT: 6.99 min Scan# 1308

Delta R.T. -0.01 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Instrument :

MSVOA\_L

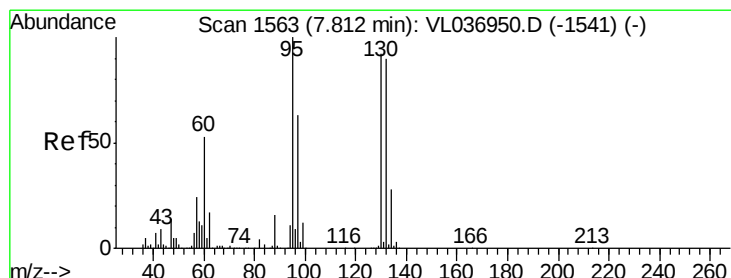
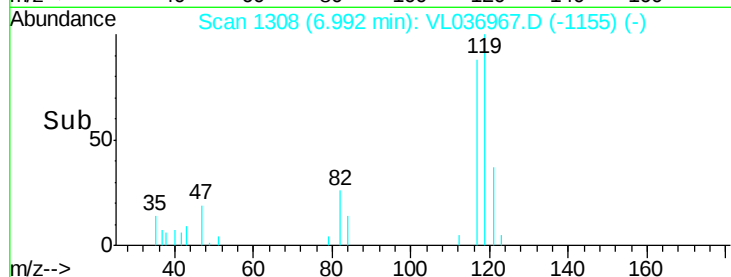
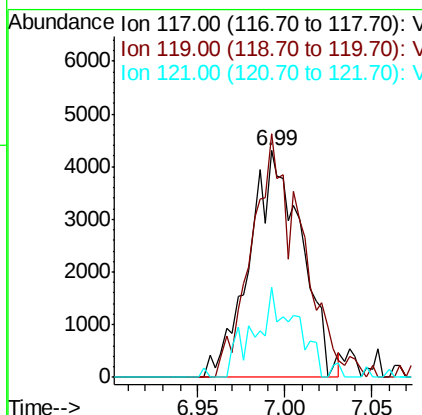
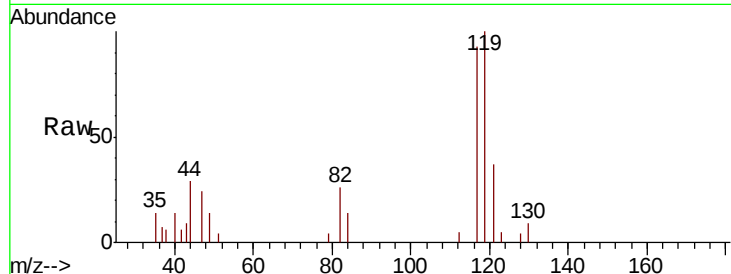
ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 117   | Resp: | 8951  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 107.5 | 76.6  | 114.8 |
| 121      | 39.5  | 25.8  | 38.6# |

Manual Integrations  
APPROVED

MMDadoda  
5/20/2021 5:55:13 PM



#38

Trichloroethene

Concen: 0.049 ppbv m

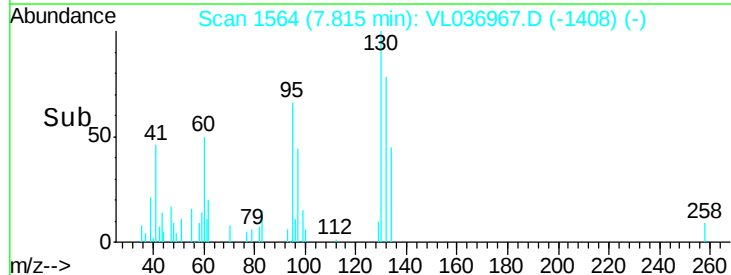
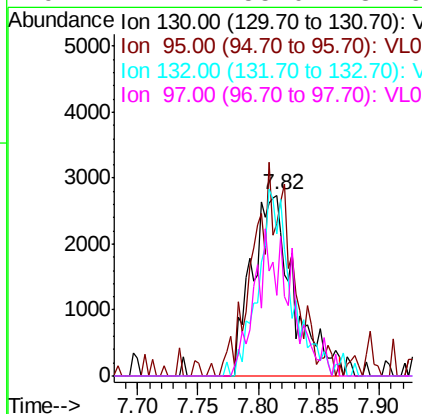
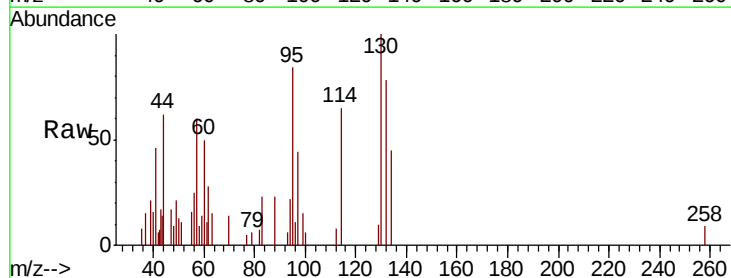
RT: 7.82 min Scan# 1564

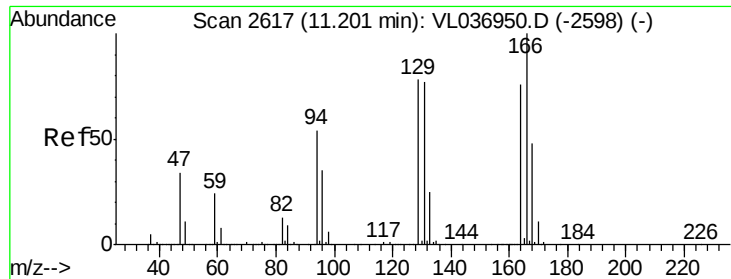
Delta R.T. 0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 130   | Resp: | 6624   |
| Ion      | Ratio | Lower | Upper  |
| 130      | 100   |       |        |
| 95       | 84.2  | 86.9  | 130.3# |
| 132      | 78.1  | 78.4  | 117.6# |
| 97       | 44.4  | 55.0  | 82.6#  |





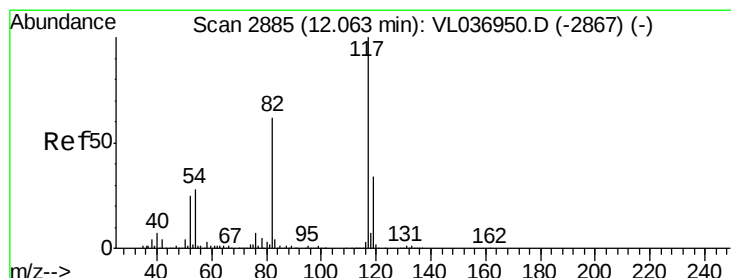
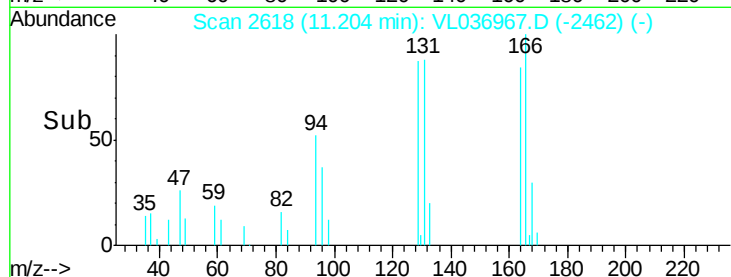
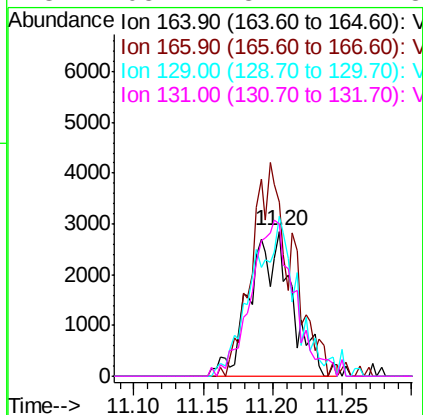
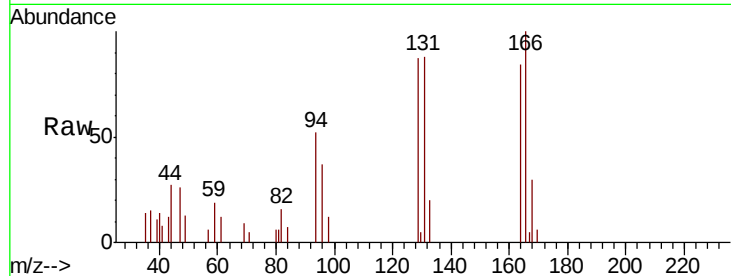
#52  
Tetrachloroethene  
Concen: 0.048 ppbv m  
RT: 11.20 min Scan# 2618  
Delta R.T. 0.00 min  
Lab File: VL036967.D  
Acq: 18 May 2021 13:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT2-2021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 119.7 | 105.5 | 158.3 |
| 129     | 104.7 | 81.8  | 122.8 |
| 131     | 105.1 | 81.2  | 121.8 |

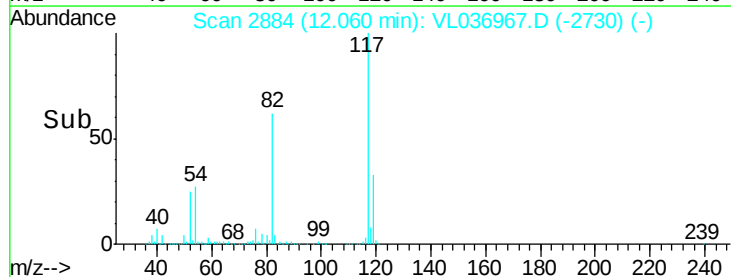
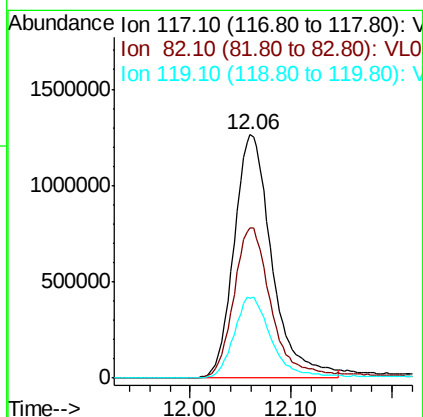
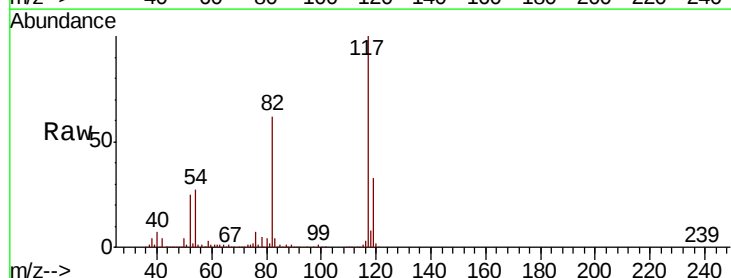
Manual Integrations  
APPROVED

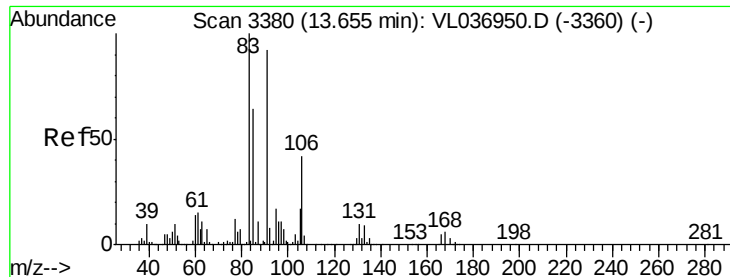
MMDadoda  
5/20/2021 5:55:13 PM



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.06 min Scan# 2884  
Delta R.T. -0.00 min  
Lab File: VL036967.D  
Acq: 18 May 2021 13:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 64.3  | 52.6  | 79.0  |
| 119     | 34.8  | 46.6  | 70.0# |





#63

1,1,2,2-Tetrachloroethane

Concen: 0.046 ppbv m

RT: 13.66 min Scan# 3382

Delta R.T. 0.01 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Instrument :

MSVOA\_L

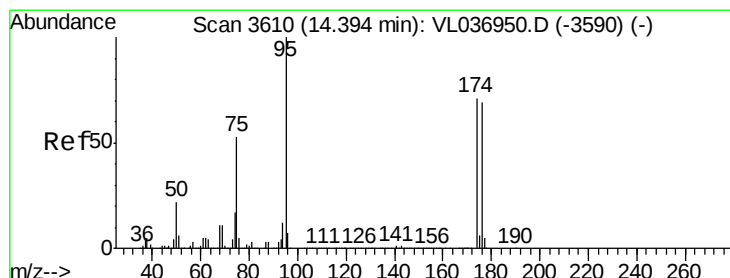
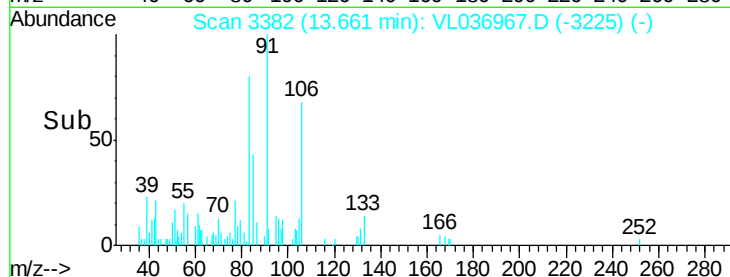
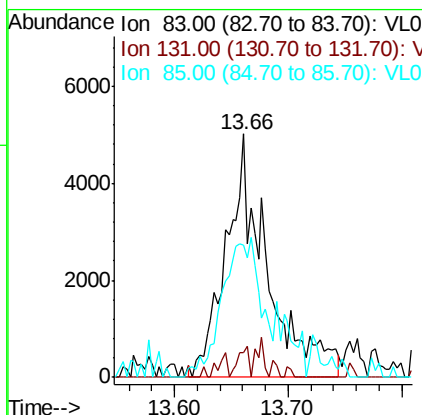
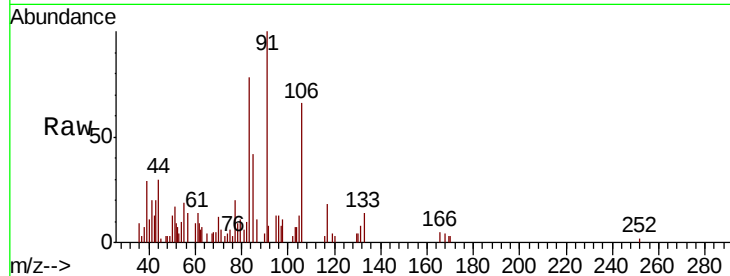
ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 83    | Resp: | 12497 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 131       | 0.0   | 5.0   | 15.0# |
| 85        | 0.0   | 32.9  | 98.6# |

Manual Integrations  
APPROVED

MMDadoda  
5/20/2021 5:55:13 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.017 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 95    | Resp: | 2482098 |
| Ion Ratio | Lower | Upper |         |
| 95        | 100   |       |         |
| 174       | 76.8  | 58.4  | 87.6    |
| 175       | 5.6   | 4.4   | 6.6     |

