

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\  
 Data File : VL037474.D  
 Acq On : 16 Aug 2021 23:18  
 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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 8/19/2021 5:59:33 PM

Quant Time: Aug 17 03:27:32 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Aug 17 2021  
 QLast Update : Tue Aug 17 02:13:47 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1366705  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4145327  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 3601919  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2513002  | 9.82     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.20% |

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units | Ovalue |
|-------------------------------|-------|------|----------|-------|-------|--------|
| 5) Vinyl Chloride             | 3.24  | 62   | 4610m    | 0.048 | ppbv  |        |
| 32) 1,1,1-Trichloroethane     | 6.50  | 97   | 9930m    | 0.041 | ppbv  |        |
| 35) Carbon Tetrachloride      | 7.00  | 117  | 10702m   | 0.044 | ppbv  |        |
| 38) Trichloroethene           | 7.82  | 130  | 5734m    | 0.040 | ppbv  |        |
| 52) Tetrachloroethene         | 11.21 | 164  | 6367m    | 0.045 | ppbv  |        |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 15800m   | 0.053 | ppbv  |        |

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

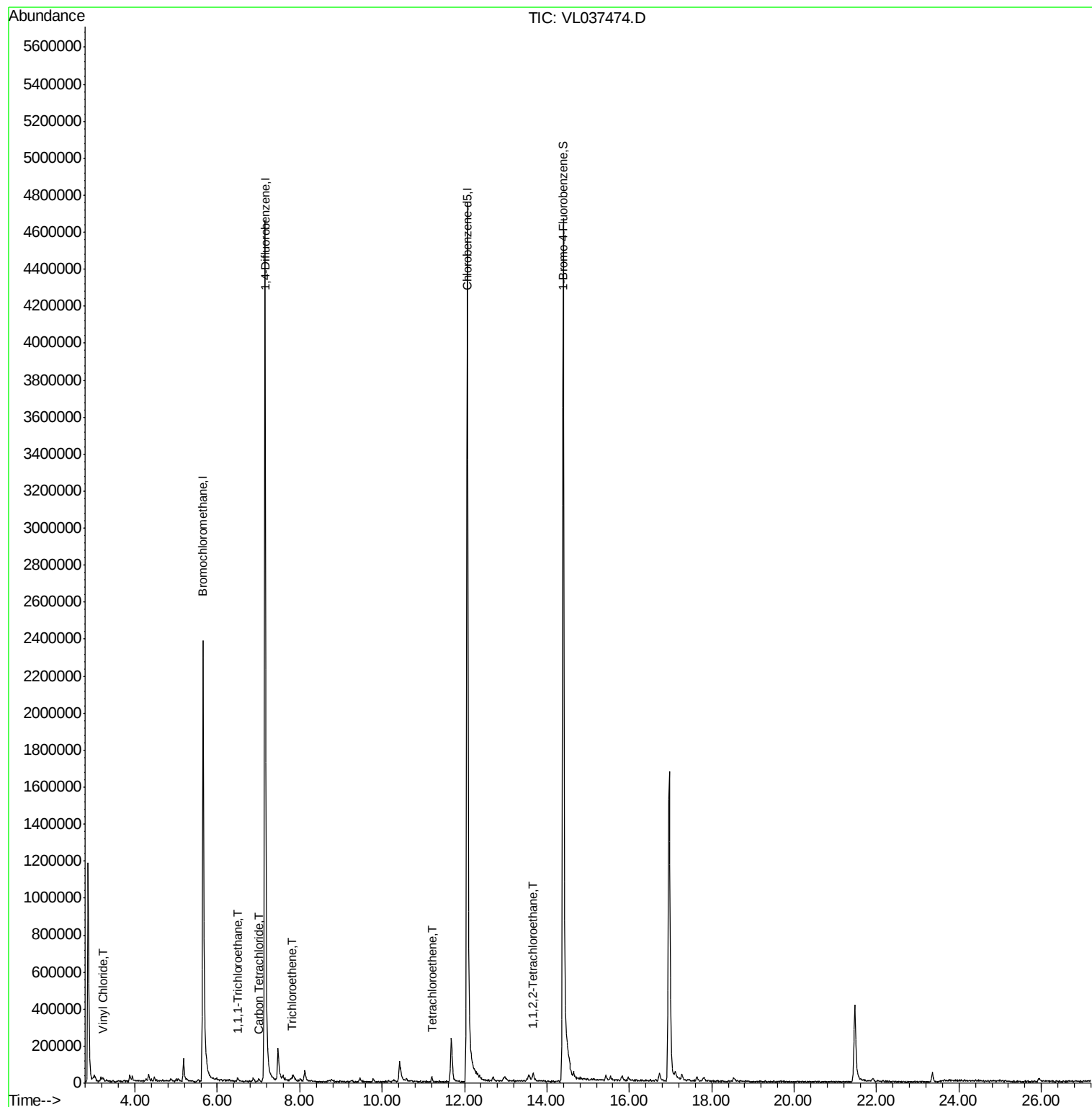
Data Path : Y:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081621\  
Data File : VL037474.D  
Acq On : 16 Aug 2021 23:18  
Operator : SY/AP  
Sample : M1458-14 0.03 LOQ  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

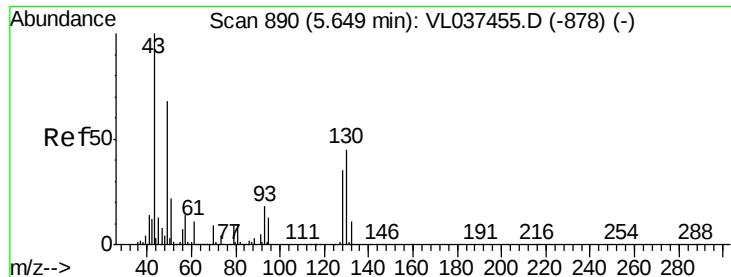
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOQ-AIR-01-QT1-2021

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Quant Time: Aug 17 03:27:32 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Aug  
QLast Update : Tue Aug 17 02:13:47 2021  
Response via : Initial Calibration





#1

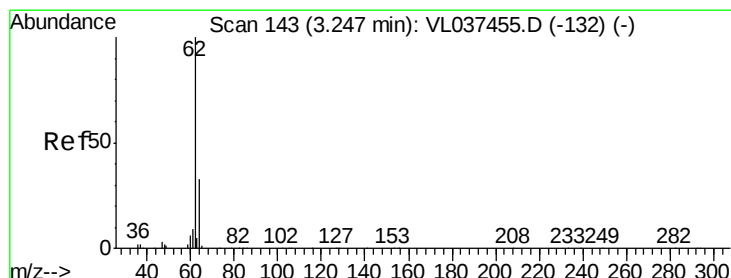
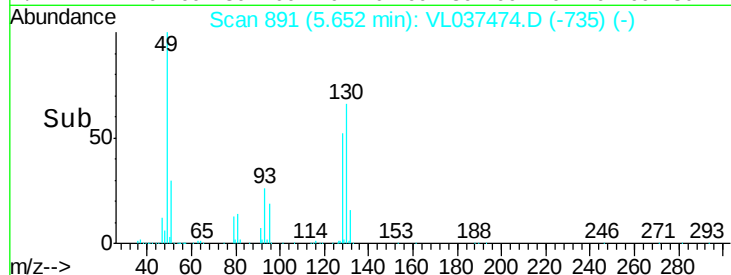
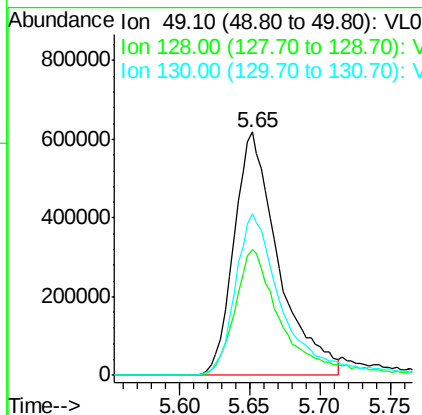
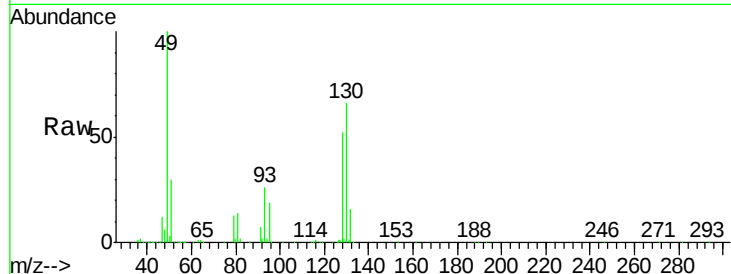
Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.65 min Scan# 891  
 Delta R.T. 0.00 min  
 Lab File: VL037474.D  
 Acq: 16 Aug 2021 23:18

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

Tot Ion: 49 Resp: 1366705  
 Ion Ratio Lower Upper  
 49 100  
 128 56.0 27.5 82.4  
 130 72.6 34.0 101.8

Manual Integrations  
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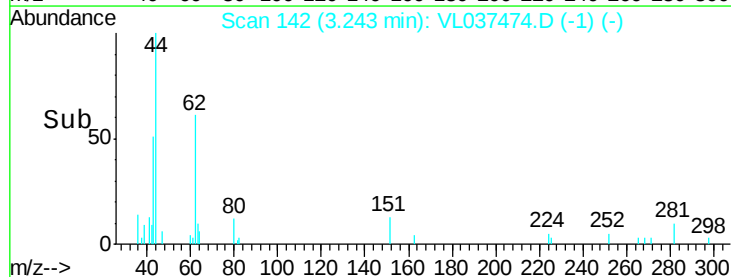
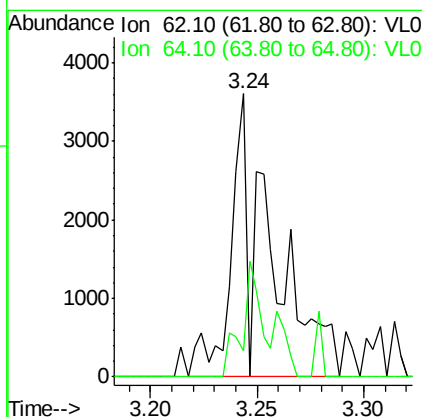
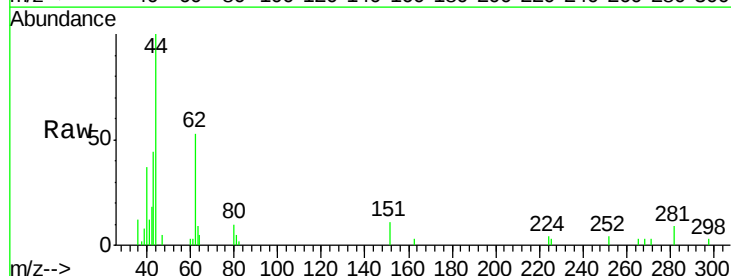
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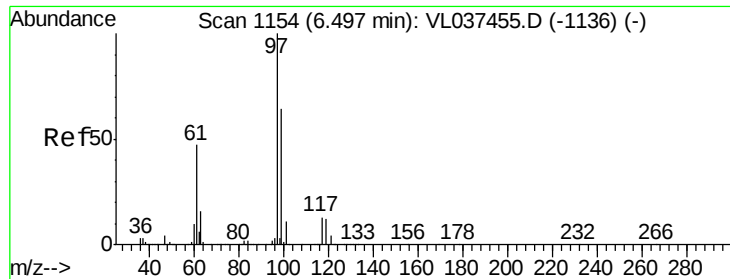


#5

Vinyl Chloride  
 Concen: 0.048 ppbv m  
 RT: 3.24 min Scan# 142  
 Delta R.T. -0.00 min  
 Lab File: VL037474.D  
 Acq: 16 Aug 2021 23:18

Tgt Ion: 62 Resp: 4610  
 Ion Ratio Lower Upper  
 62 100  
 64 9.2 26.5 39.7#





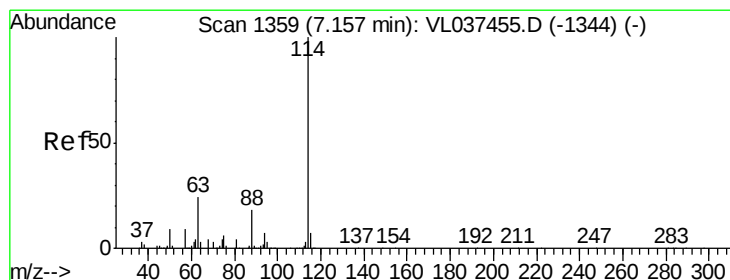
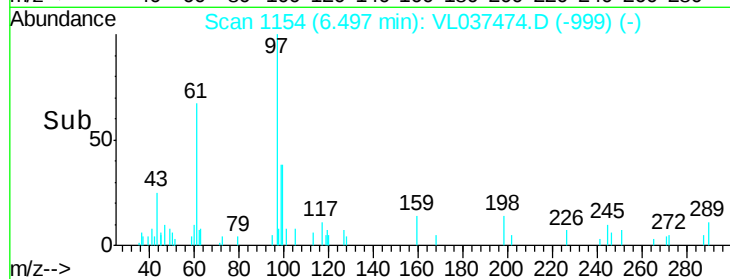
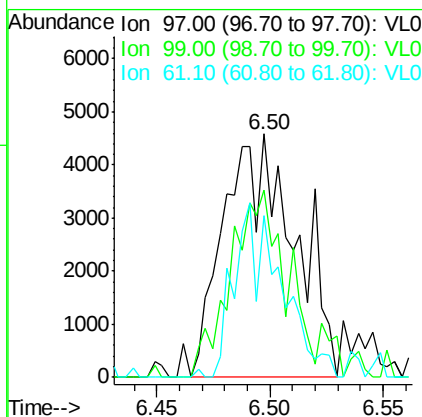
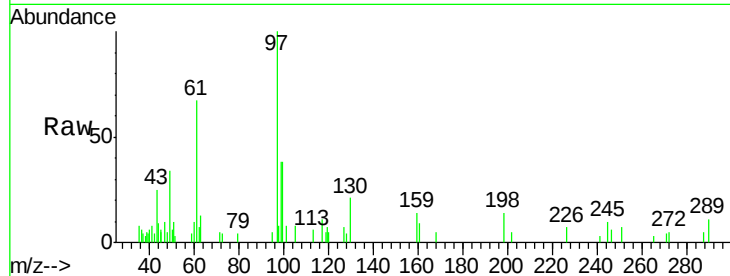
#32  
 1,1,1-Trichloroethane  
 Concen: 0.041 ppbv m  
 RT: 6.50 min Scan# 1154  
 Delta R.T. -0.00 min  
 Lab File: VL037474.D  
 Acq: 16 Aug 2021 23:18

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

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 66.9  | 51.8  | 77.6  |
| 61      | 0.0   | 39.6  | 59.4# |

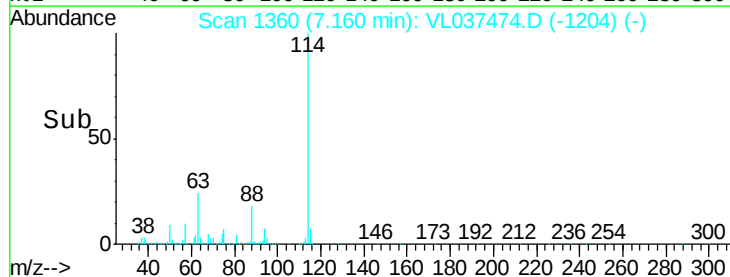
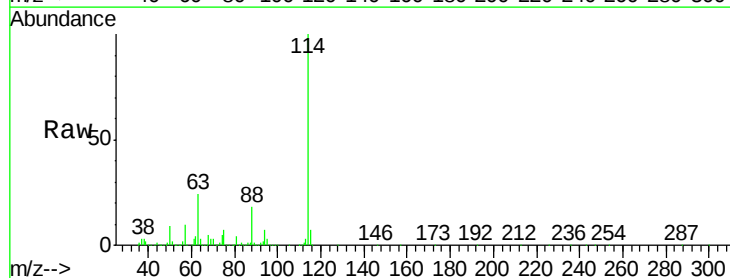
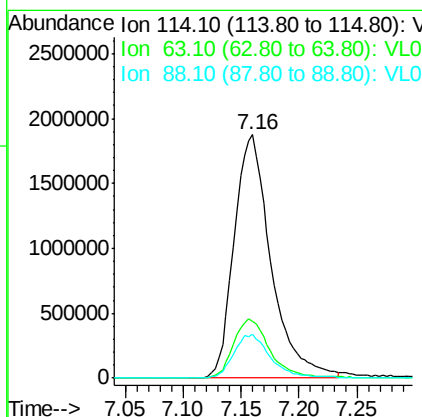
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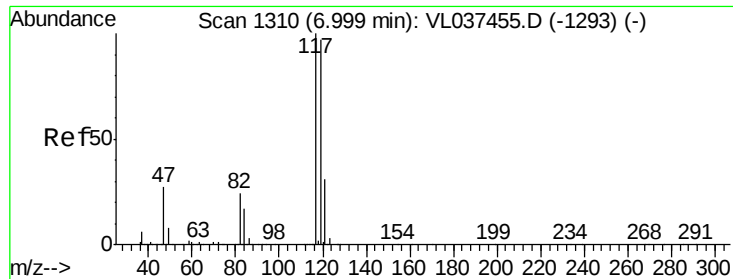
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#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.16 min Scan# 1360  
 Delta R.T. 0.00 min  
 Lab File: VL037474.D  
 Acq: 16 Aug 2021 23:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.5  | 19.3  | 28.9  |
| 88      | 18.2  | 14.2  | 21.4  |





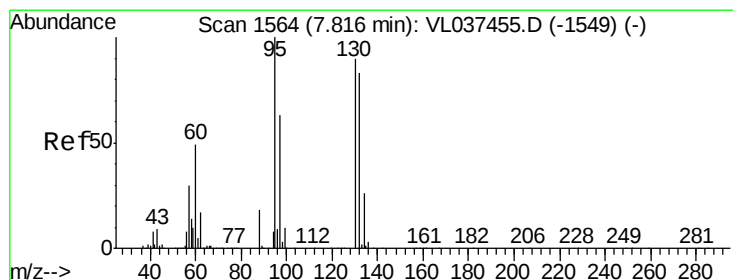
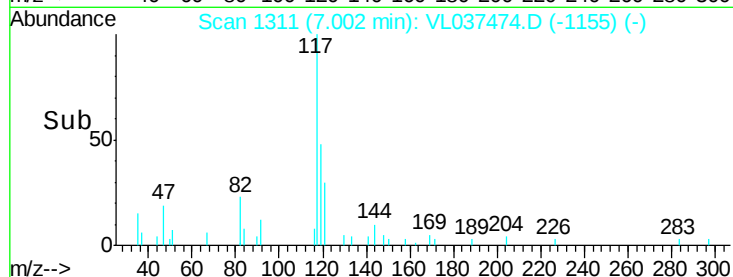
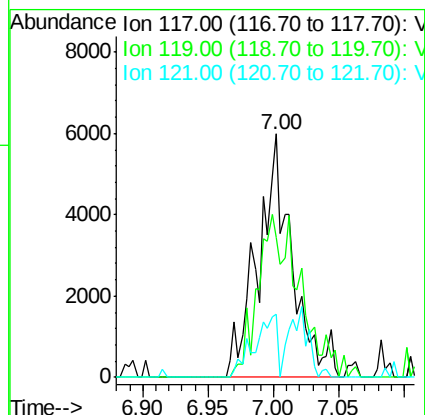
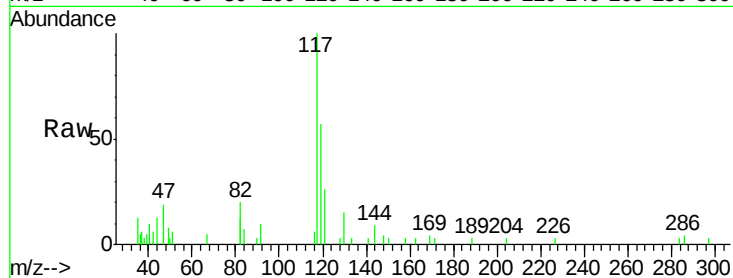
#35  
Carbon Tetrachloride  
Concen: 0.044 ppbv m  
RT: 7.00 min Scan# 1311  
Delta R.T. 0.00 min  
Lab File: VL037474.D  
Acq: 16 Aug 2021 23:18

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

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 57.4  | 77.3  | 115.9# |
| 121     | 25.9  | 25.2  | 37.8   |

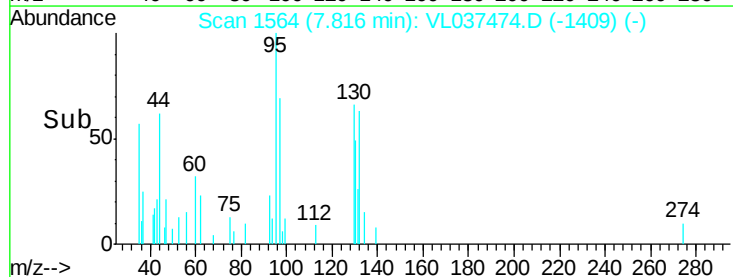
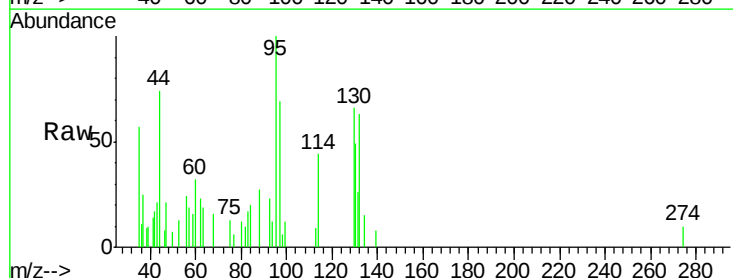
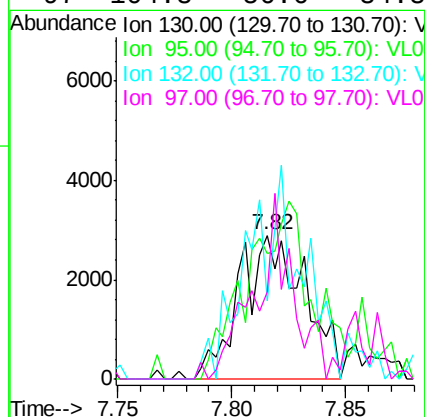
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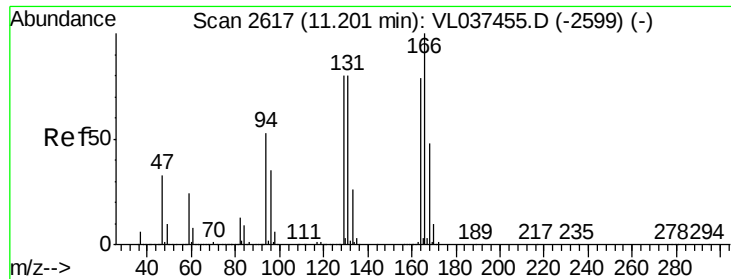
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#38  
Trichloroethene  
Concen: 0.040 ppbv m  
RT: 7.82 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: VL037474.D  
Acq: 16 Aug 2021 23:18

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 130     | 100   |       |        |
| 95      | 150.8 | 89.2  | 133.8# |
| 132     | 94.3  | 74.0  | 111.0  |
| 97      | 104.8 | 56.6  | 84.8#  |





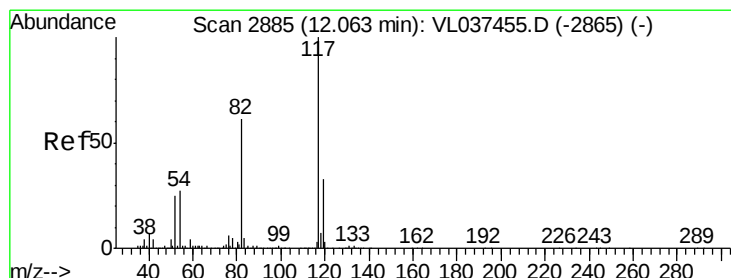
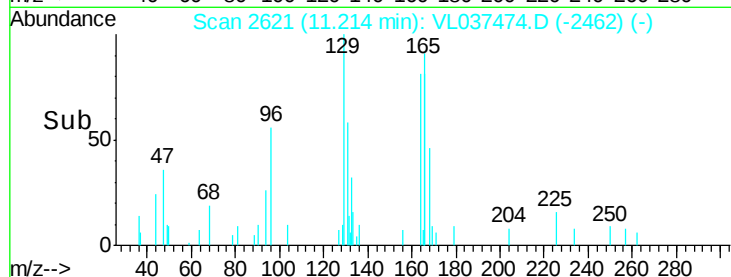
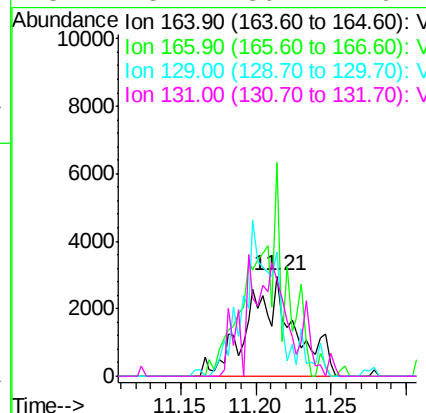
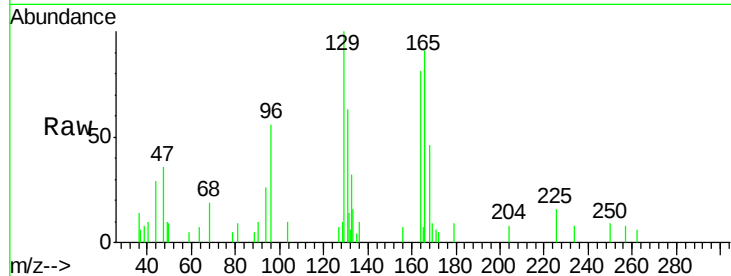
#52  
Tetrachloroethene  
Concen: 0.045 ppbv m  
RT: 11.21 min Scan# 2621  
Delta R.T. 0.01 min  
Lab File: VL037474.D  
Acq: 16 Aug 2021 23:18

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

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 113.3 | 100.7 | 151.1  |
| 129     | 124.0 | 80.9  | 121.3# |
| 131     | 78.7  | 80.2  | 120.4# |

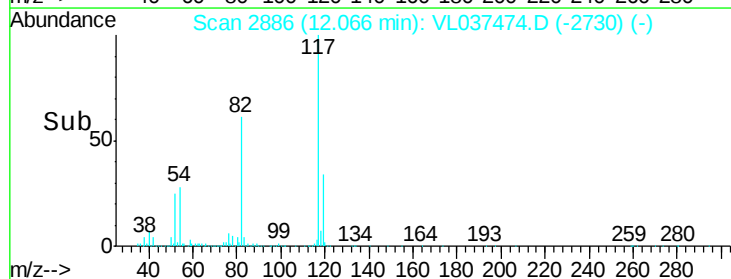
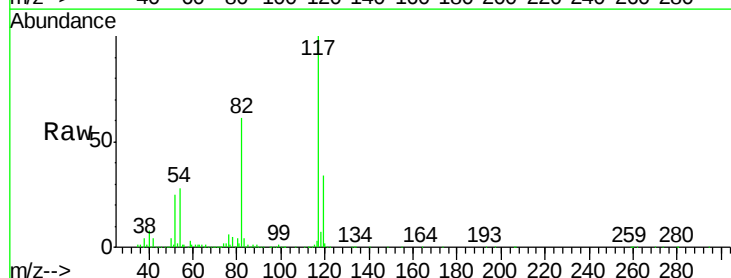
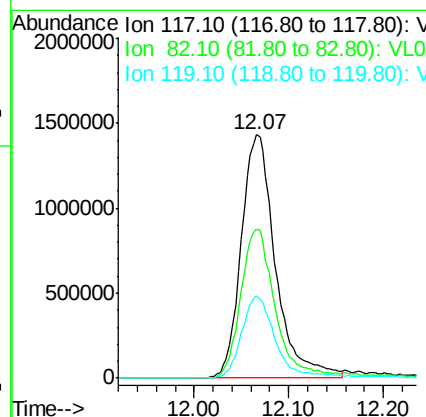
Manual Integrations  
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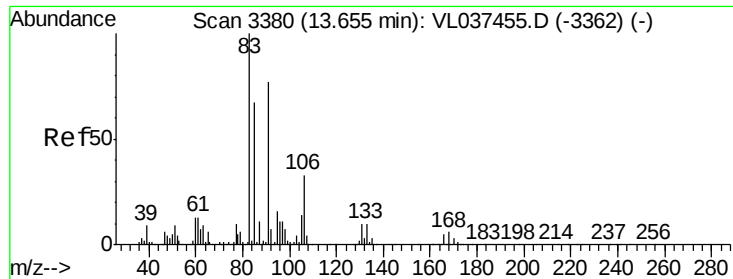
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#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.07 min Scan# 2886  
Delta R.T. 0.00 min  
Lab File: VL037474.D  
Acq: 16 Aug 2021 23:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 64.1  | 52.9  | 79.3  |
| 119     | 34.2  | 24.8  | 37.2  |





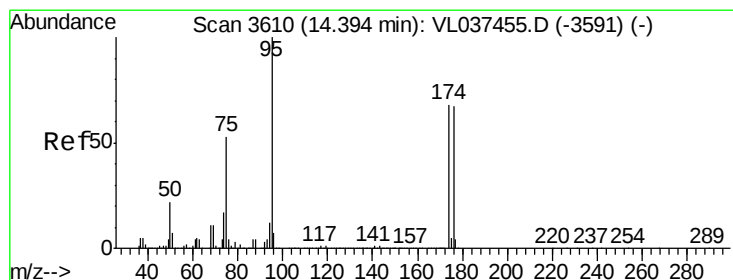
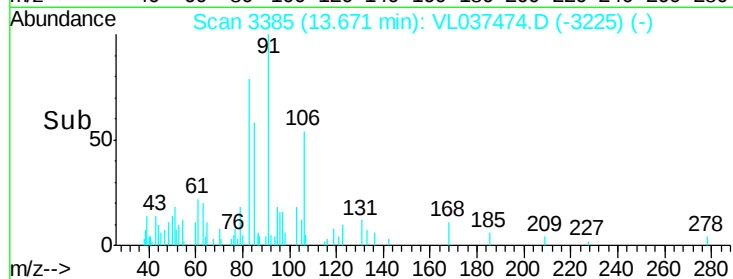
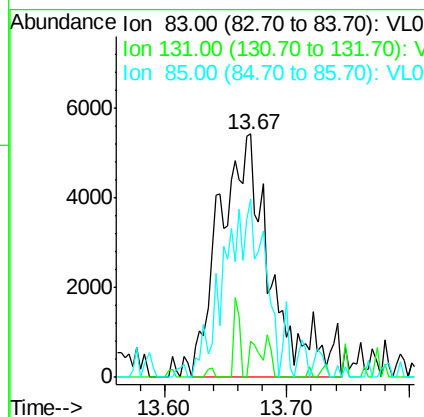
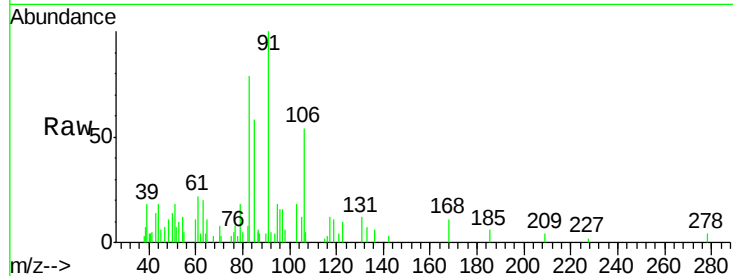
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.053 ppbv m  
 RT: 13.67 min Scan# 3385  
 Delta R.T. 0.02 min  
 Lab File: VL037474.D  
 Acq: 16 Aug 2021 23:18

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

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 83      | 100   | 15800 |       |       |
| 131     | 8.7   | 5.0   | 15.0  |       |
| 85      | 0.0   | 33.8  | 101.3 |       |

Manual Integrations  
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#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.820 ppbv  
 RT: 14.39 min Scan# 3610  
 Delta R.T. -0.00 min  
 Lab File: VL037474.D  
 Acq: 16 Aug 2021 23:18

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 95      | 100   | 2513002 |       |       |
| 174     | 76.3  | 59.6    | 89.4  |       |
| 175     | 5.4   | 4.6     | 7.0   |       |

