

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\  
 Data File : VL038072.D  
 Acq On : 19 Nov 2021 2:56  
 Operator : SY/AP  
 Sample : M4751-01DL 40X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SVP-1DL

Quant Time: Nov 22 05:24:48 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Nov 18 13:16:09 2021  
 QLast Update : Thu Nov 18 13:16:09 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 745331   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2252236  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 1933330  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1385311  | 9.93     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.30% |

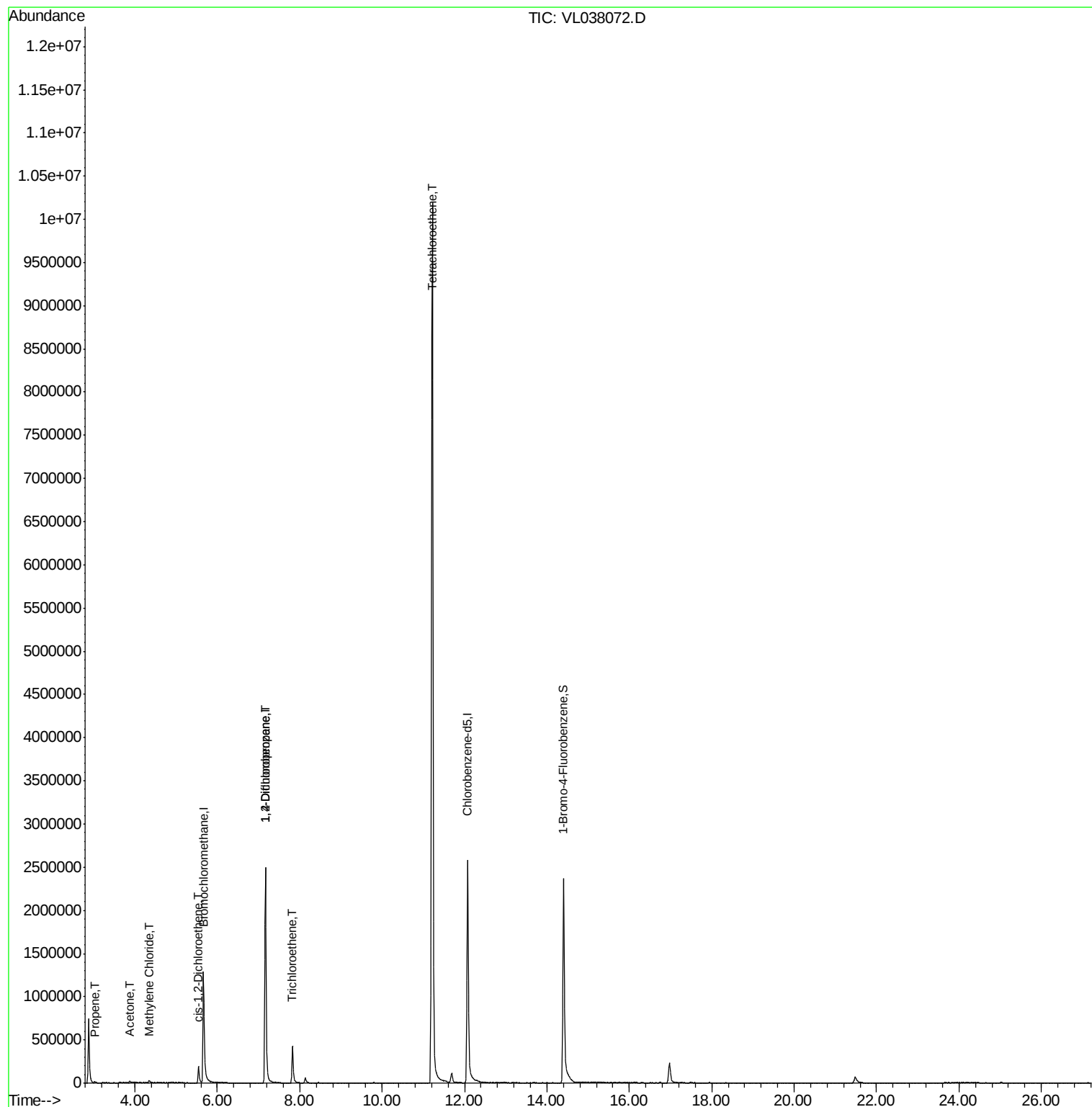
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 9) Propene                 | 3.02  | 41   | 2227     | 0.039  | ppbv # | 16     |
| 15) Acetone                | 3.87  | 43   | 12326    | 0.191  | ppbv # | 47     |
| 20) Methylene Chloride     | 4.34  | 84   | 8738     | 0.241  | ppbv # | 77     |
| 31) cis-1,2-Dichloroethene | 5.54  | 61   | 123243   | 1.252  | ppbv   | 97     |
| 38) Trichloroethene        | 7.83  | 130  | 147641   | 1.742  | ppbv   | 97     |
| 39) 1,2-Dichloropropane    | 7.17  | 63   | 543060   | 6.301  | ppbv # | 27     |
| 52) Tetrachloroethene      | 11.22 | 164  | 3144122  | 37.822 | ppbv   | 96     |

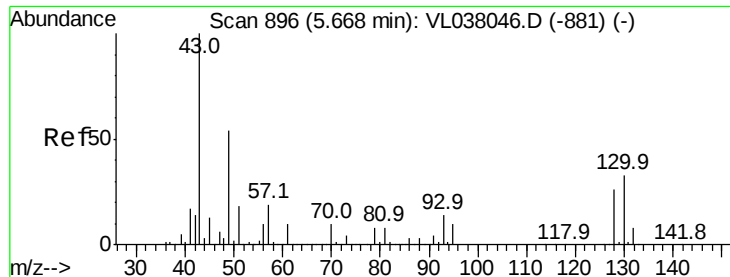
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 18 13:16:09 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: SVP-1DL

Acq: 19 Nov 2021 2:50

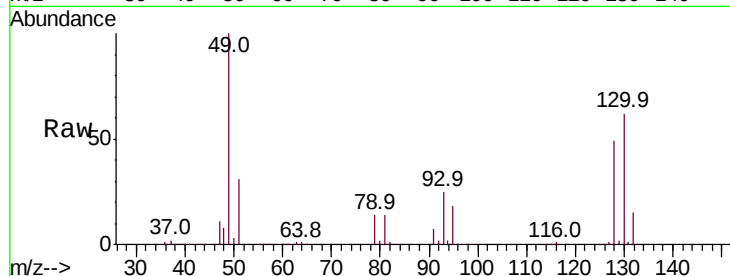
Tot Ion: 49 Resp: 745331

Ion Ratio Lower Upper

49 100

128 52.6 26.5 79.5

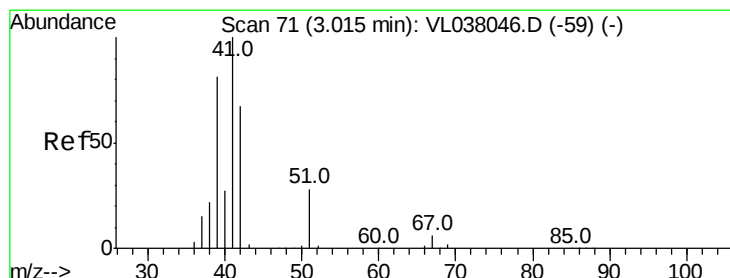
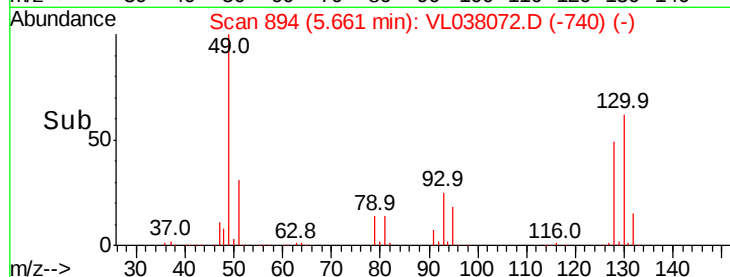
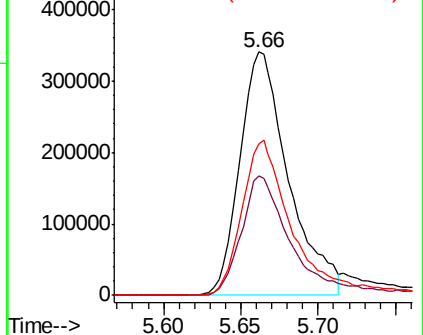
130 68.8 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 0.039 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL038072.D

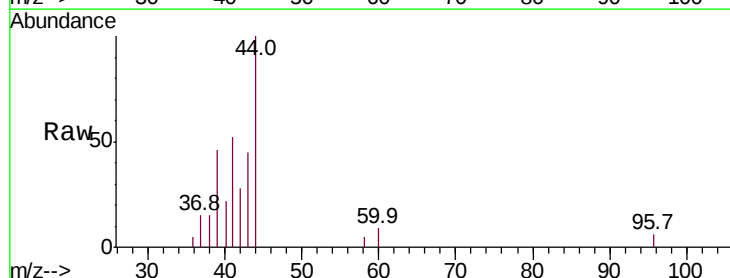
Acq: 19 Nov 2021 2:56

Tgt Ion: 41 Resp: 2227

Ion Ratio Lower Upper

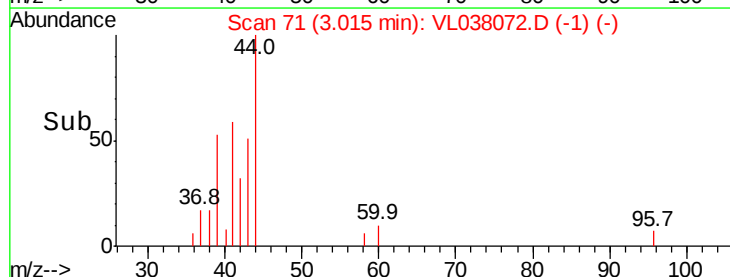
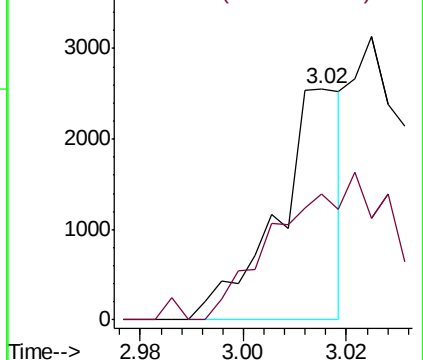
41 100

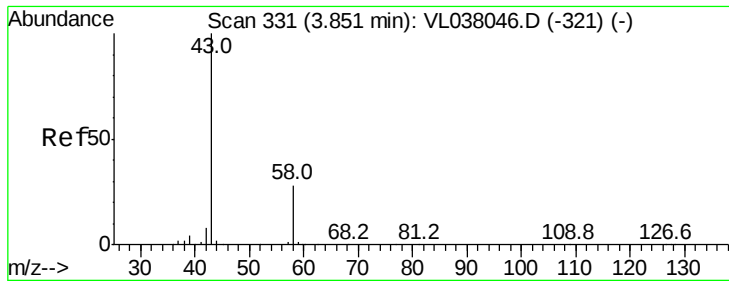
42 0.0 53.8 80.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#15

Acetone

Concen: 0.191 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

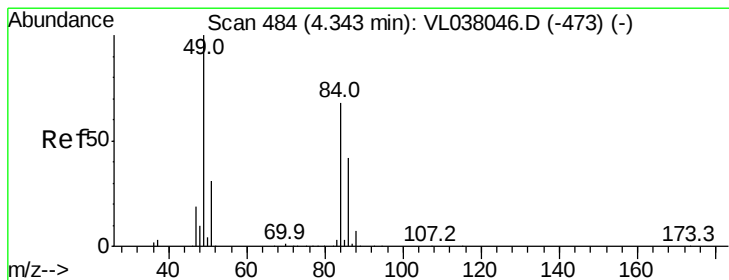
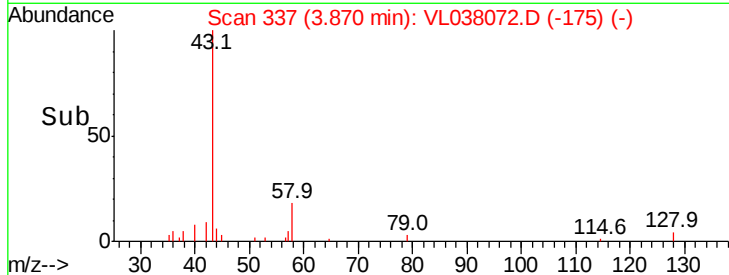
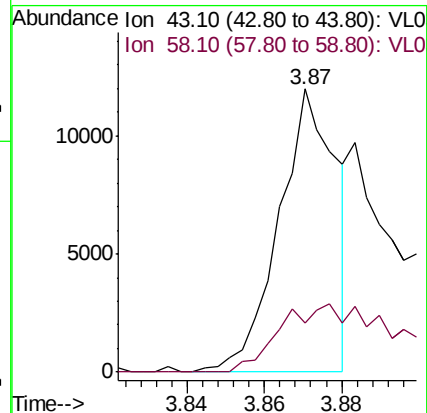
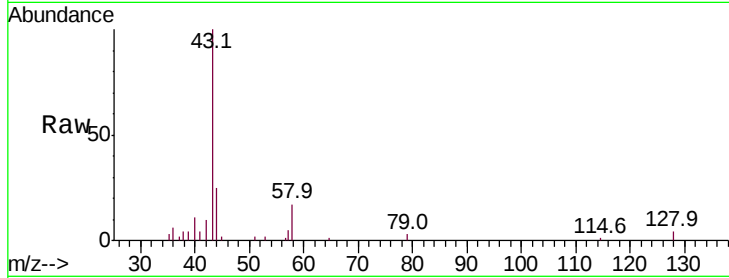
Acq: 19 Nov 2021 2:56

Tot Ion: 43 Resp: 12326

Ion Ratio Lower Upper

43 100

58 0.0 22.4 33.6#



#20

Methylene Chloride

Concen: 0.241 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL038072.D

Acq: 19 Nov 2021 2:56

Tgt Ion: 84 Resp: 8738

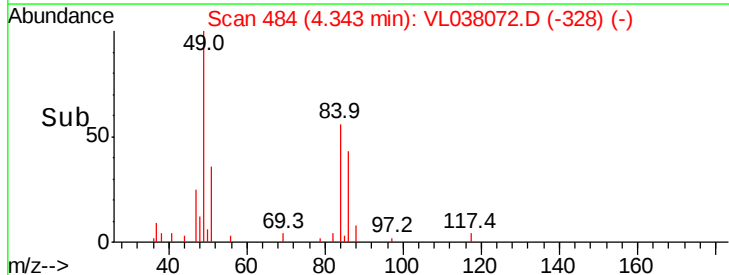
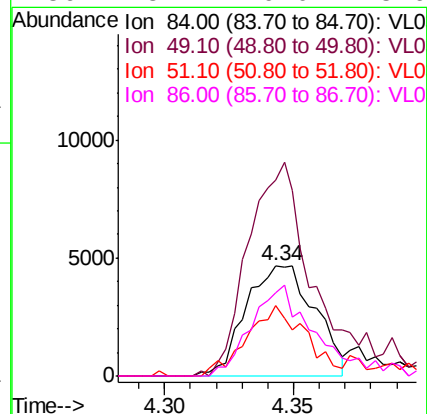
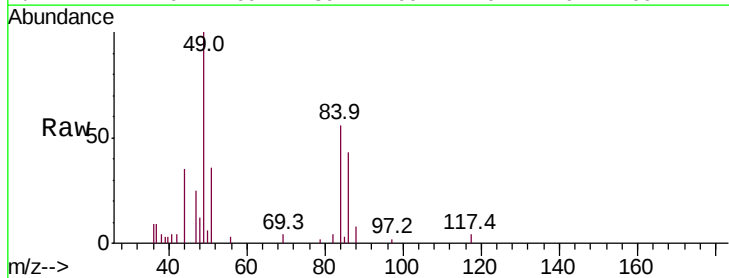
Ion Ratio Lower Upper

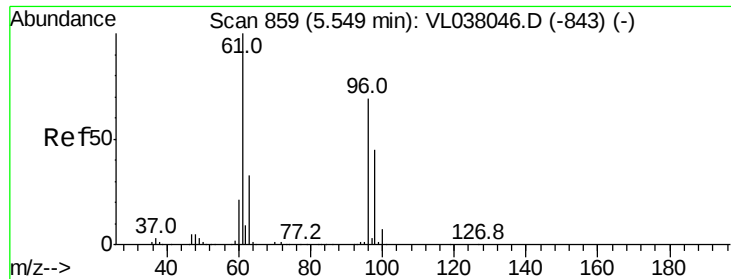
84 100

49 177.1 118.2 177.2

51 64.0 36.8 55.2#

86 75.4 49.0 73.6#





#31

cis-1,2-Dichloroethene

Concen: 1.252 ppbv

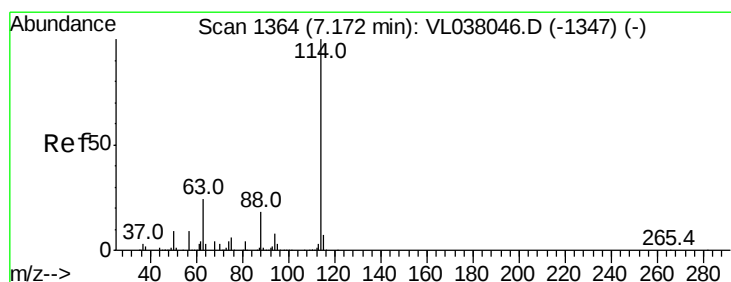
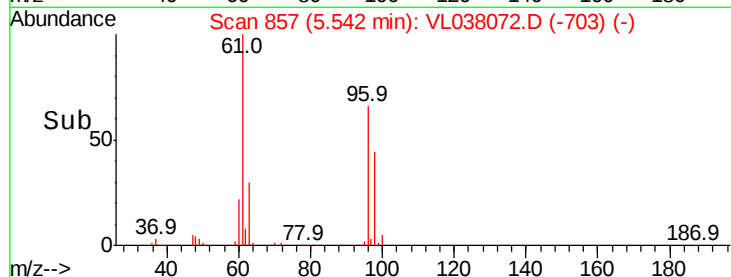
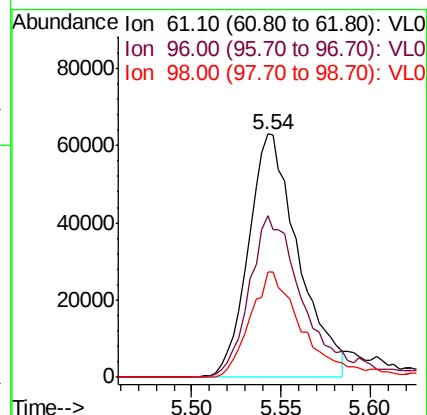
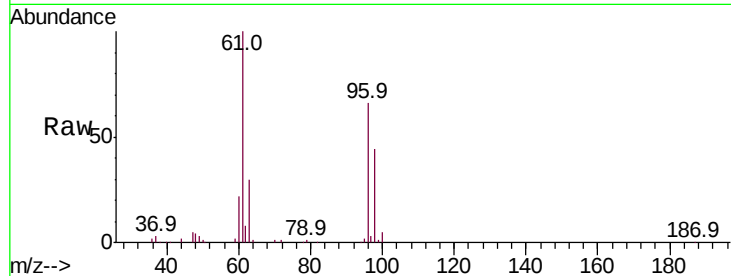
RT: 5.54

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 19 Nov 2021 2:56

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 66.2  | 55.4  | 83.2  |
| 98      | 43.5  | 35.7  | 53.5  |



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

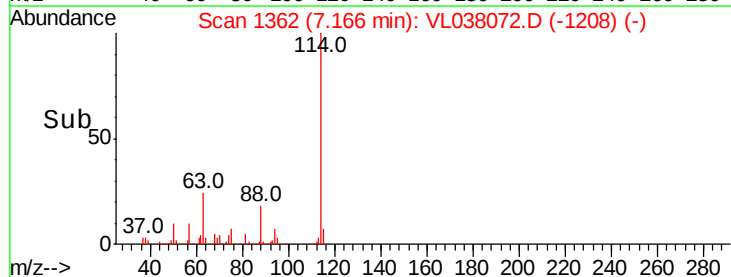
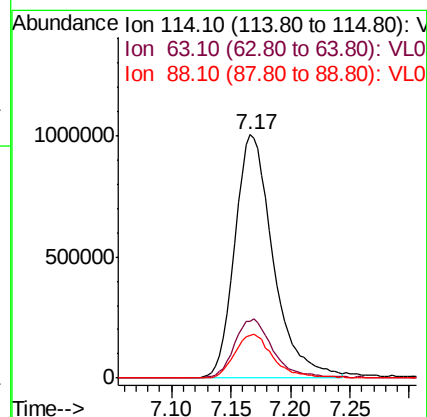
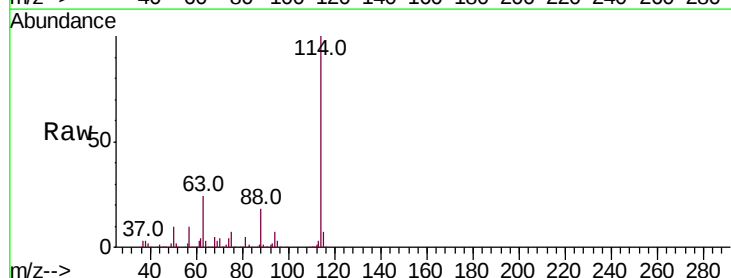
RT: 7.17 min Scan# 1362

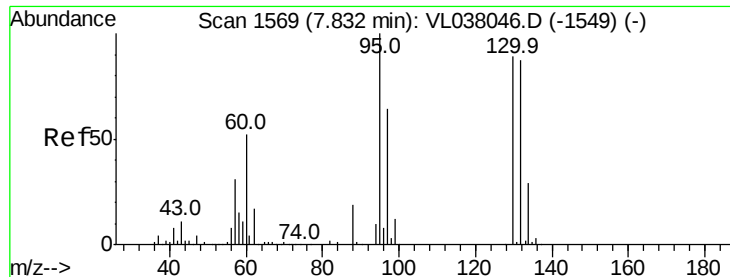
Delta R.T. -0.01 min

Lab File: VL038072.D

Acq: 19 Nov 2021 2:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.9  | 19.7  | 29.5  |
| 88      | 18.3  | 14.4  | 21.6  |





#38

Trichloroethene

Concen: 1.742 ppbv

RT: 7.83 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Nov 2021 2:56

Tot Ion:130 Resp: 147641

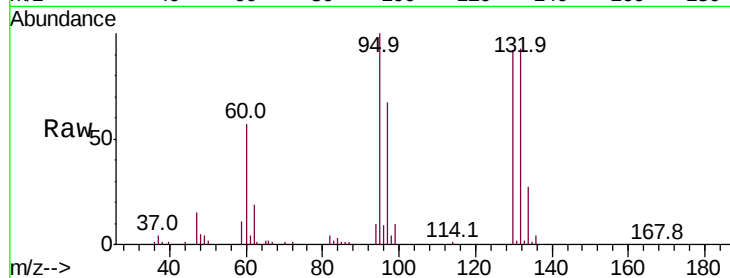
Ion Ratio Lower Upper

130 100

95 109.1 89.4 134.2

132 101.6 78.2 117.2

97 73.2 57.0 85.4

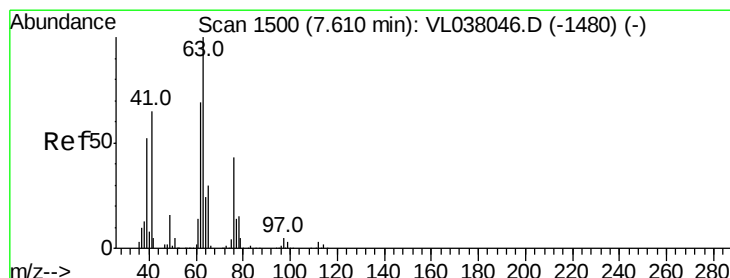
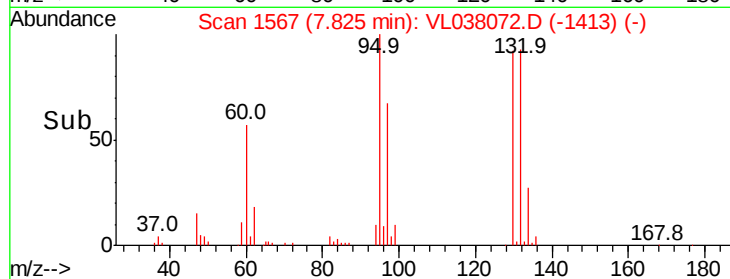
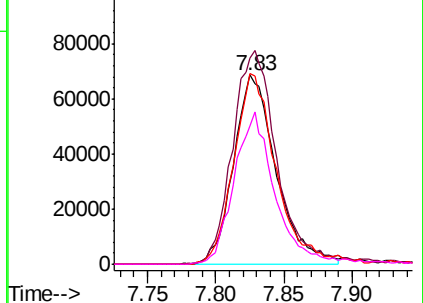


Abundance Ion 130.00 (129.70 to 130.70): V

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



#39

1,2-Dichloropropane

Concen: 6.301 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.44 min

Lab File: VL038072.D

Acq: 19 Nov 2021 2:56

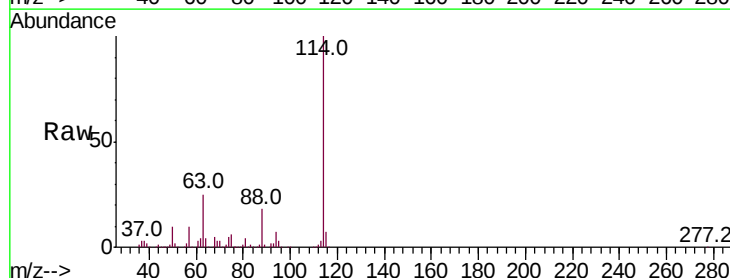
Tgt Ion: 63 Resp: 543060

Ion Ratio Lower Upper

63 100

41 0.0 52.3 78.5#

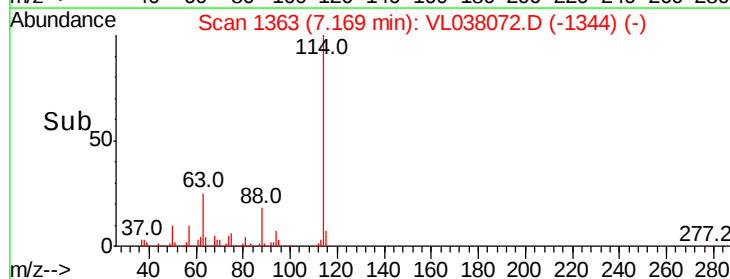
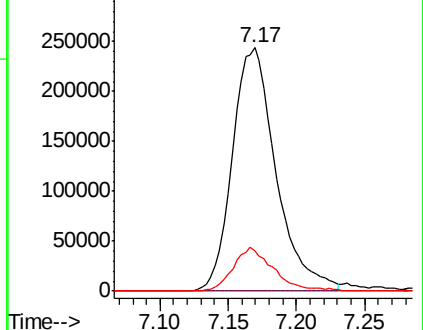
62 16.3 55.1 82.7#

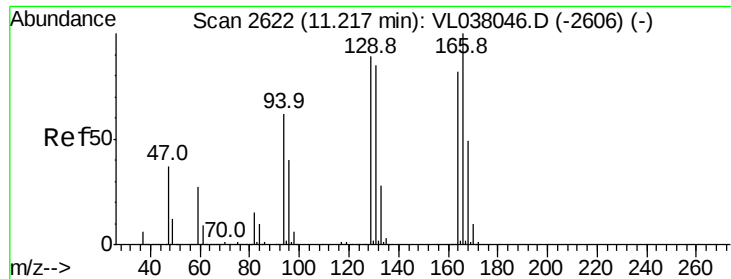


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 37.822 ppbv

RT: 11.22

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Nov 2021 2:56

Tot Ion:164 Resp: 3144122

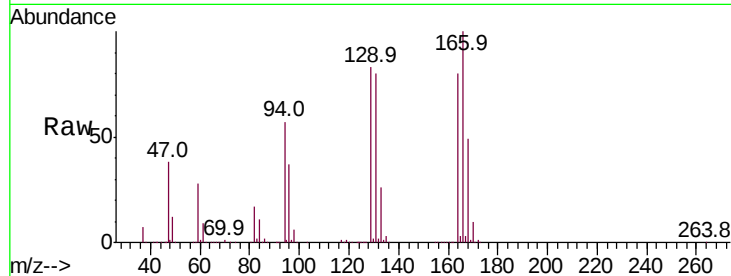
Ion Ratio Lower Upper

164 100

166 124.2 97.2 145.8

129 102.8 86.9 130.3

131 99.6 82.8 124.2

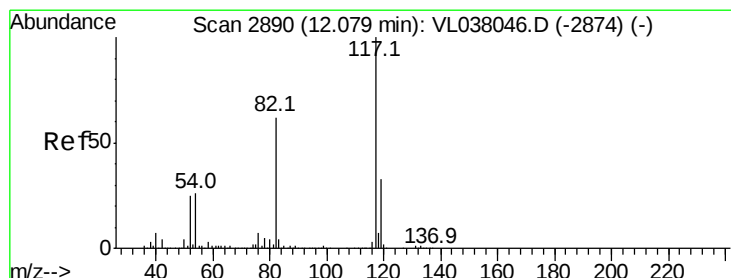
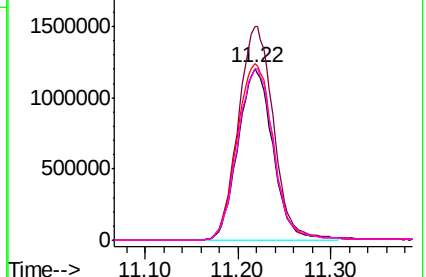
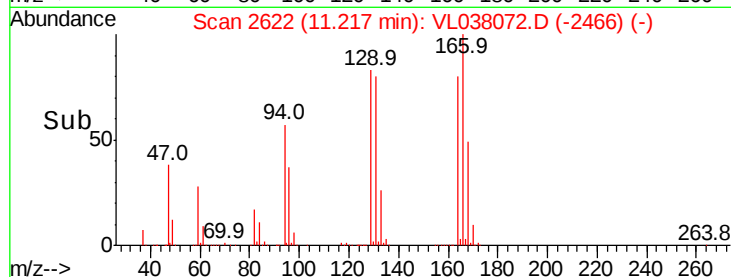


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL038072.D

Acq: 19 Nov 2021 2:56

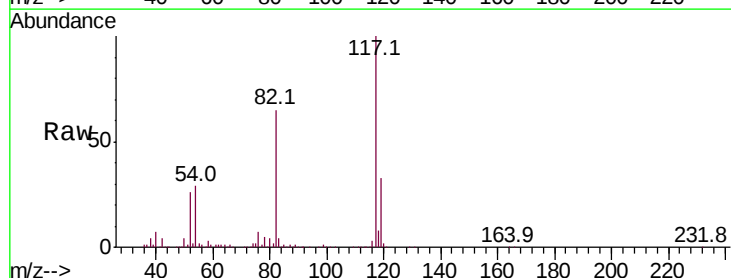
Tgt Ion:117 Resp: 1933330

Ion Ratio Lower Upper

117 100

82 66.9 52.8 79.2

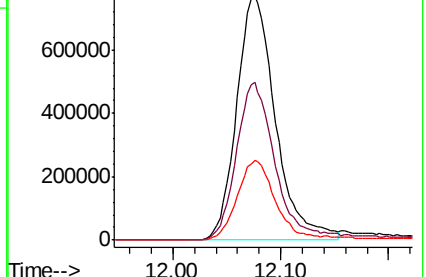
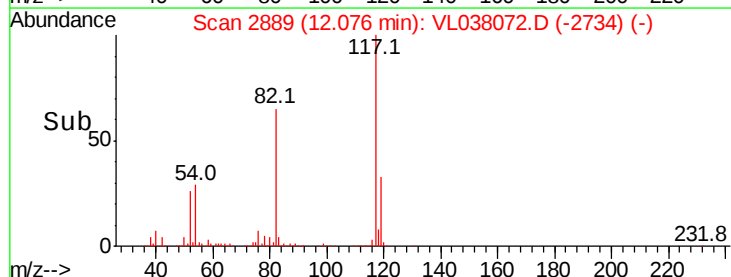
119 33.8 26.8 40.2

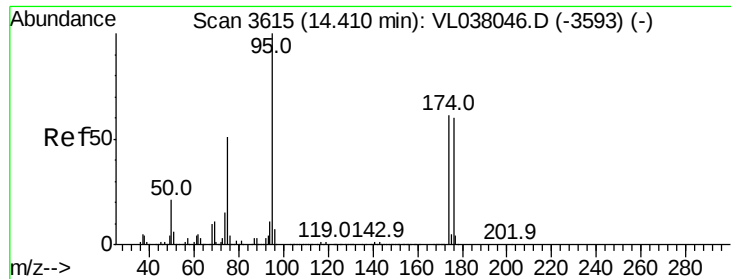


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.934 ppbv

RT: 14.41 Instrument:

Delta R.T MSVOA\_L

Lab File: ClientSampleId :

Acq: 19 Nov 2021 2:30

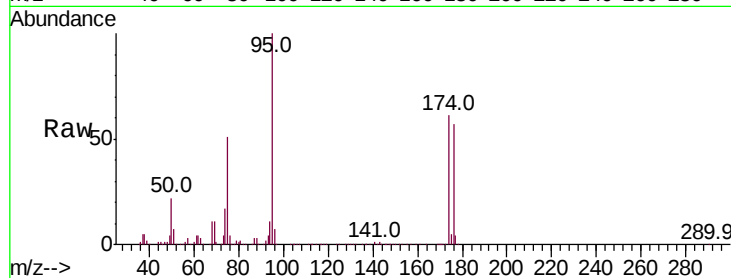
Tot Ion: 95 Resp: 1385311

Ion Ratio Lower Upper

95 100

174 67.1 53.1 79.7

175 5.0 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

