

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060822\  
 Data File : VL039248.D  
 Acq On : 8 Jun 2022 23:45  
 Operator : SY/AP  
 Sample : N3214-13 0.03 LOQ  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT2-2022

Quant Time: Jun 09 06:42:37 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jun 01 01:22:18 2022  
 QLast Update : Wed Jun 01 01:22:18 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 838782   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 1980796  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 1614004  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 1478340  | 11.08    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 110.80% |

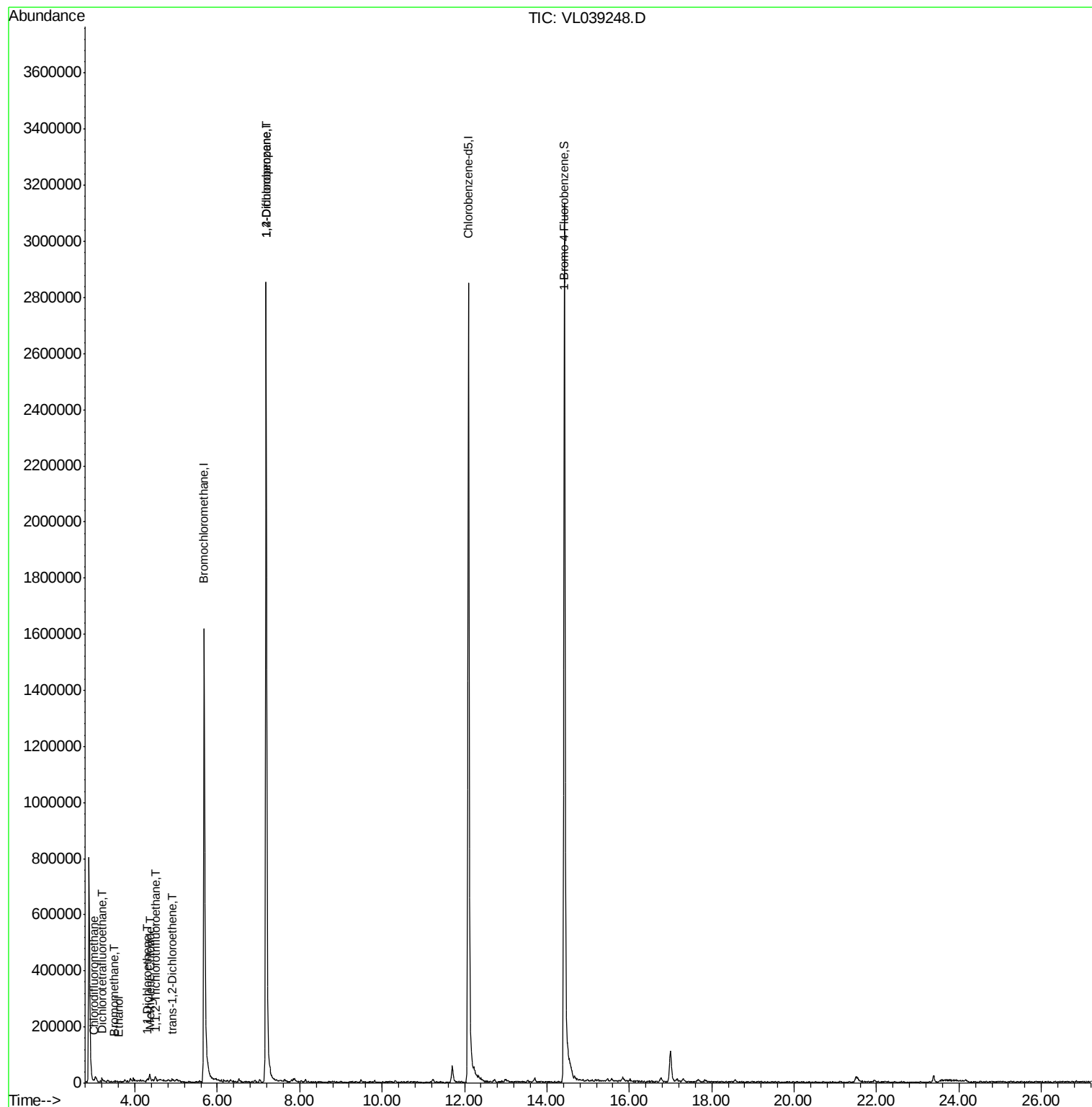
| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 3) Chlorodifluoromethane       | 3.00 | 51   | 4371     | 0.041 | ppbv   | 96     |
| 6) Bromomethane                | 3.49 | 94   | 1194     | 0.047 | ppbv # | 61     |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85   | 4710     | 0.035 | ppbv # | 42     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101  | 3068     | 0.035 | ppbv # | 59     |
| 13) Ethanol                    | 3.61 | 45   | 123      | 0.048 | ppbv # | 100    |
| 18) 1,1-Dichloroethene         | 4.30 | 96   | 1718     | 0.043 | ppbv # | 3      |
| 20) Methylene Chloride         | 4.35 | 84   | 4395     | 0.119 | ppbv # | 81     |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96   | 1396     | 0.037 | ppbv # | 42     |
| 39) 1,2-Dichloropropane        | 7.19 | 63   | 587868   | 9.191 | ppbv # | 24     |

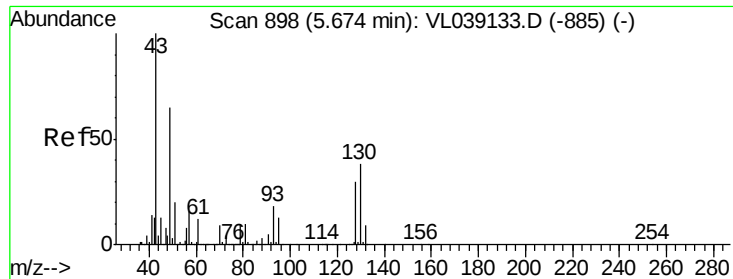
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 01 01:22:18 2022  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 8 Jun 2022 23:45 LOD-MDL-AIR-01-QT2-2022

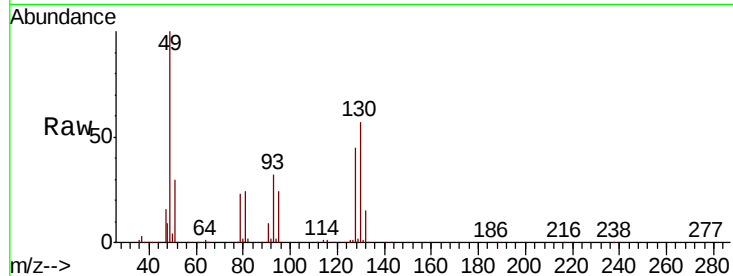
Tot Ion: 49 Resp: 838782

Ion Ratio Lower Upper

49 100

128 48.5 24.7 74.1

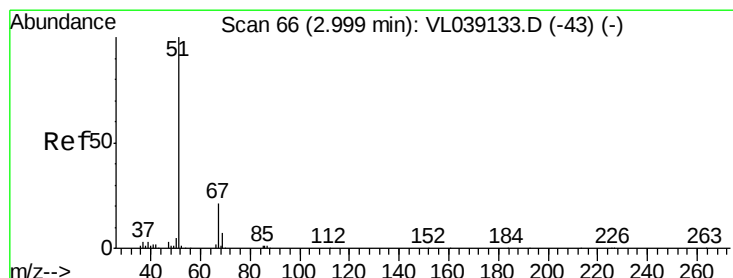
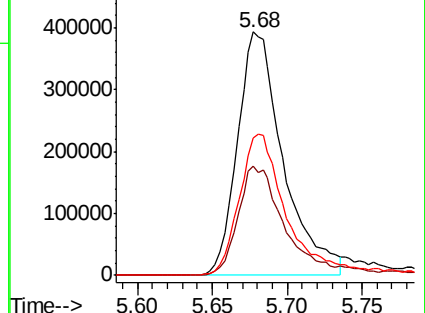
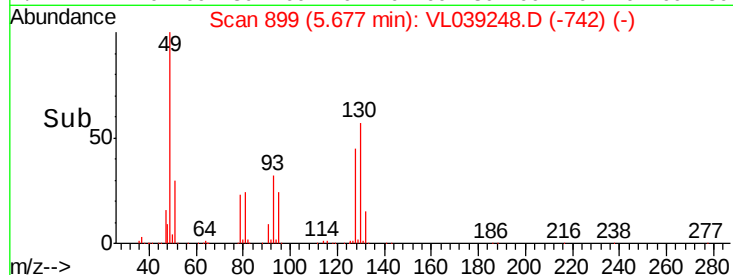
130 63.4 31.4 94.0



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



#3

Chlorodifluoromethane

Concen: 0.041 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL039248.D

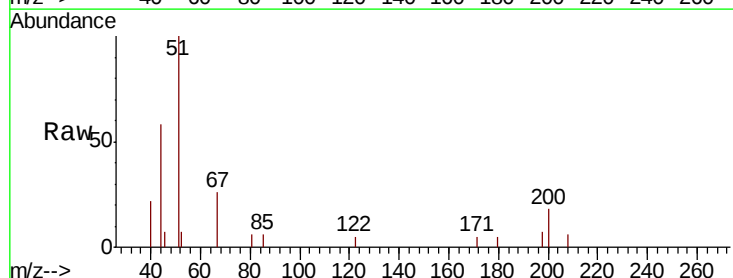
Acq: 8 Jun 2022 23:45

Tgt Ion: 51 Resp: 4371

Ion Ratio Lower Upper

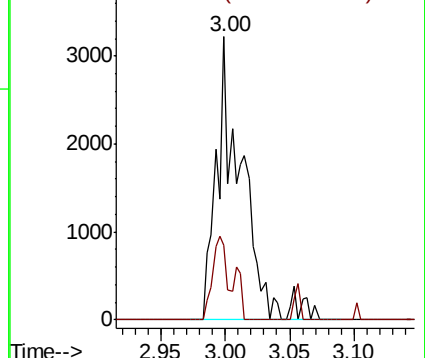
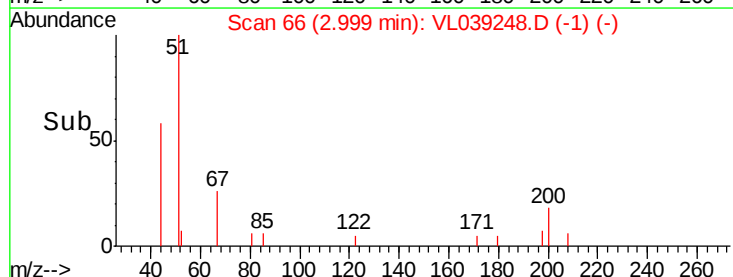
51 100

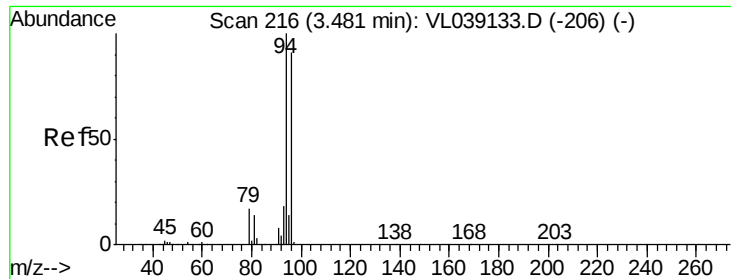
67 22.2 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#6

Bromomethane

Concen: 0.047 ppbv

RT: 3.49 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

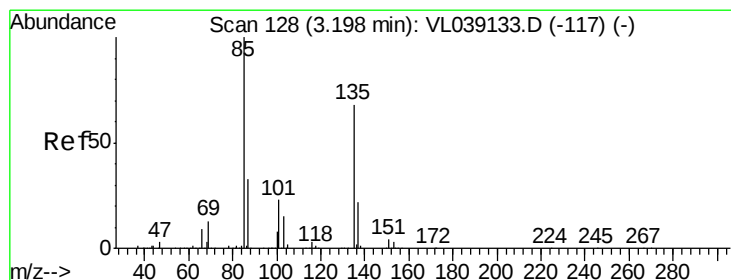
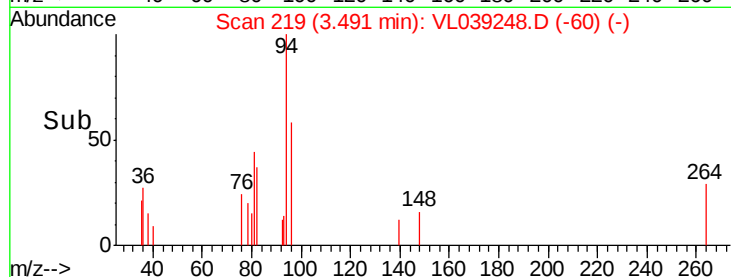
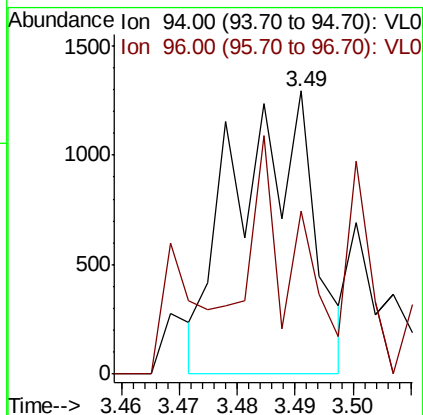
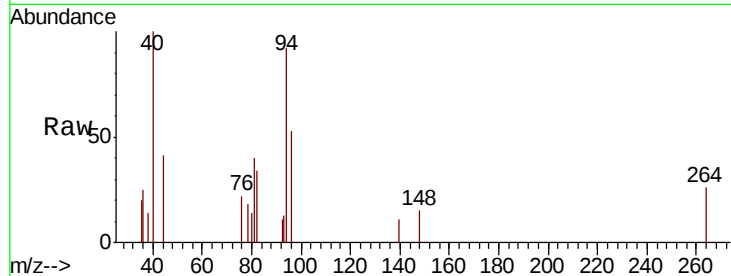
Acq: 8 Jun 2022 23:45 LOD-MDL-AIR-01-OT2-2022

Tot Ion: 94 Resp: 1194

Ion Ratio Lower Upper

94 100

96 54.1 73.0 109.4#



#8

Dichlorotetrafluoroethane

Concen: 0.035 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.00 min

Lab File: VL039248.D

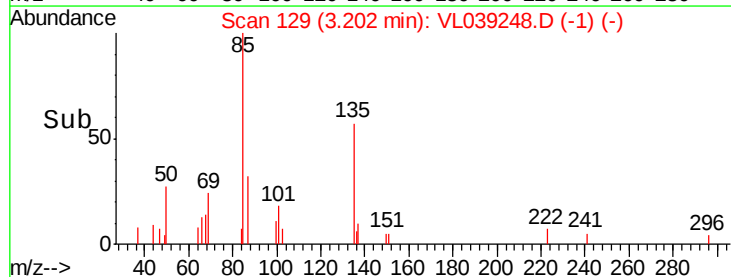
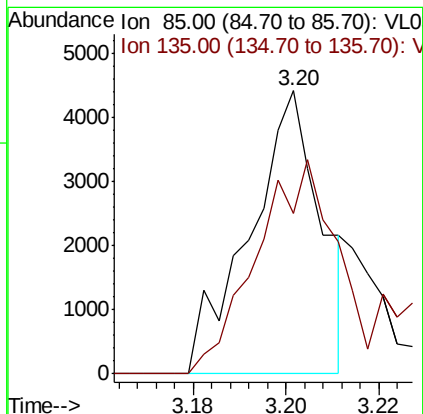
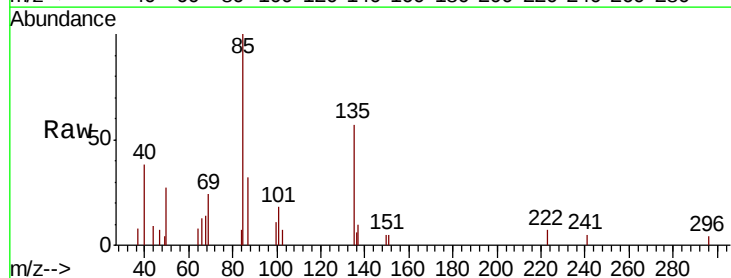
Acq: 8 Jun 2022 23:45

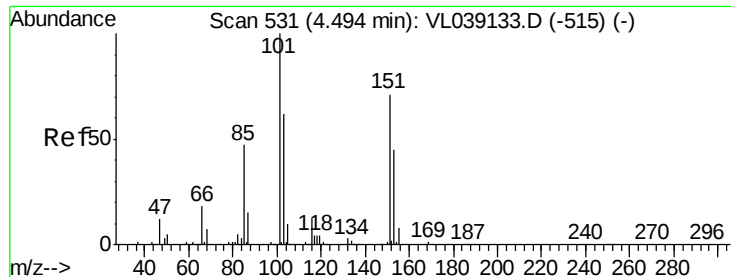
Tgt Ion: 85 Resp: 4710

Ion Ratio Lower Upper

85 100

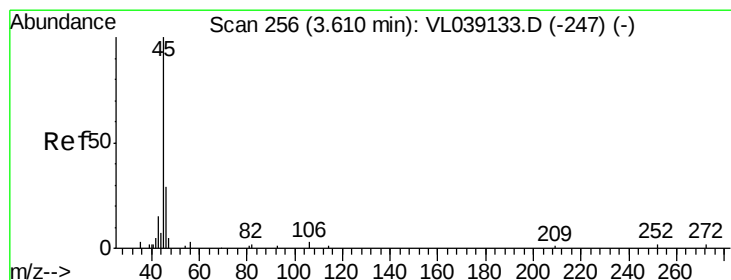
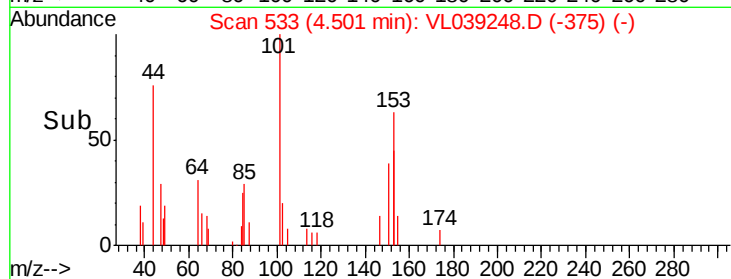
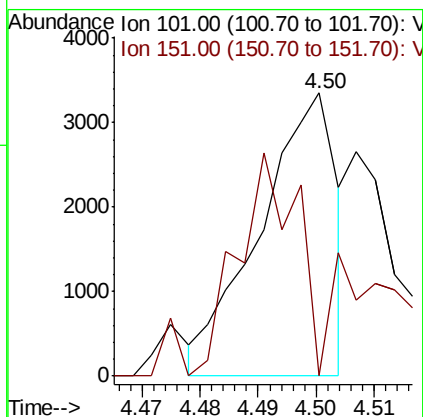
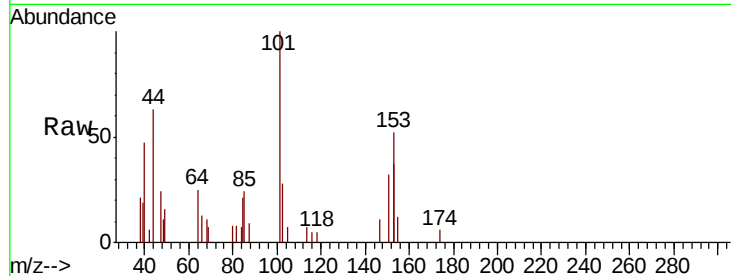
135 115.5 55.0 82.4#





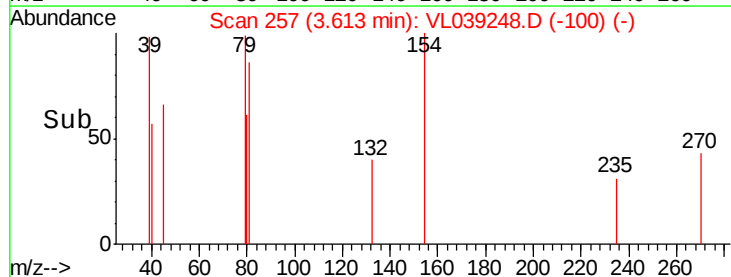
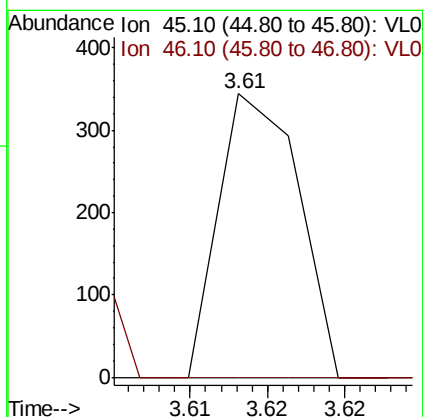
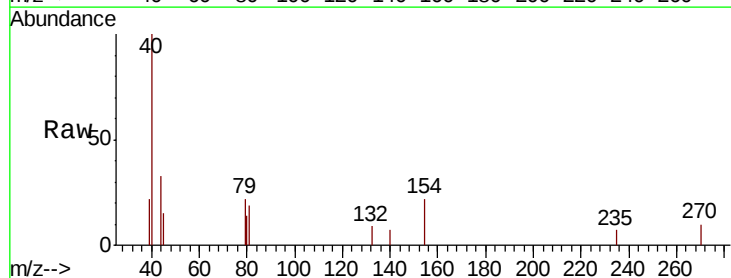
#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.035 ppbv  
 RT: 4.50  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 LOD-MDL-AIR-01-QT2-2022  
 Acq: 8 Jun 2022 23:45

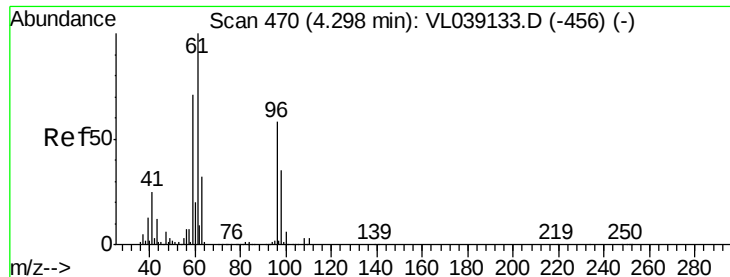
Tot Ion: 101 Resp: 3068  
 Ion Ratio Lower Upper  
 101 100  
 151 108.5 59.4 89.0#



#13  
 Ethanol  
 Concen: 0.048 ppbv  
 RT: 3.61 min Scan# 257  
 Delta R.T. 0.00 min  
 Lab File: VL039248.D  
 Acq: 8 Jun 2022 23:45

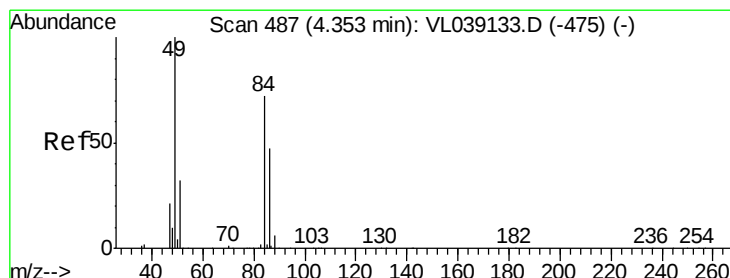
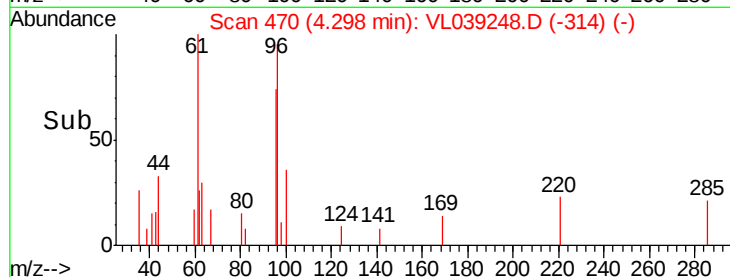
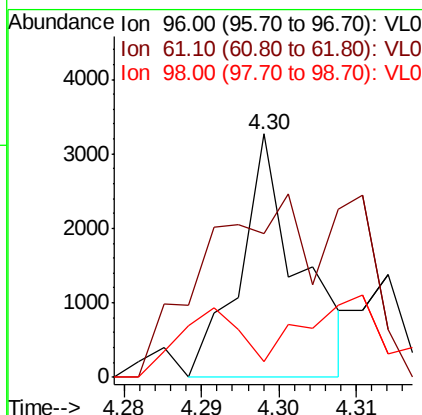
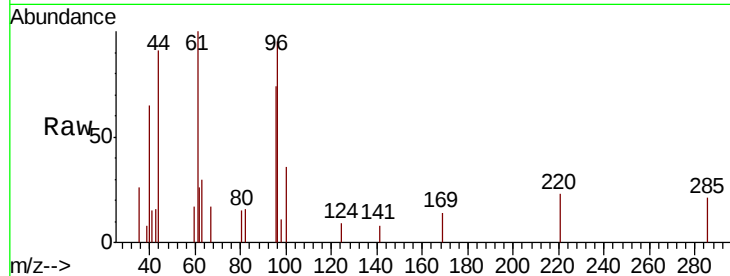
Tgt Ion: 45 Resp: 123  
 Ion Ratio Lower Upper  
 45 100  
 46 119.5 0.0 0.0#





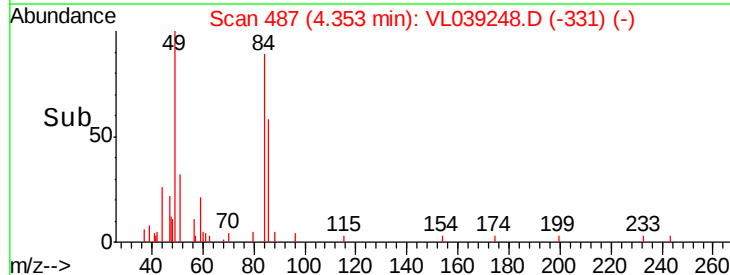
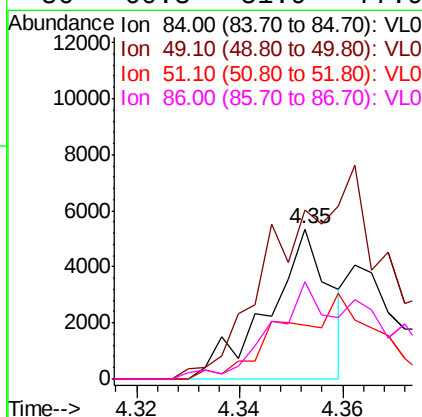
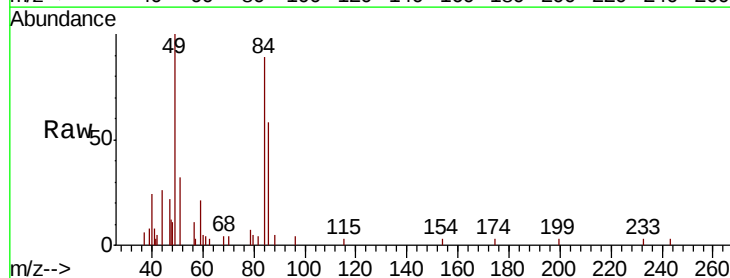
#18  
 1,1-Dichloroethene  
 Concen: 0.043 ppbv  
 RT: 4.30 Instrument: MSVOA\_L  
 Delta R.T. ClientSampleId:  
 Lab File: LOD-MDL-AIR-01-QT2-2022  
 Acq: 8 Jun 2022 23:45

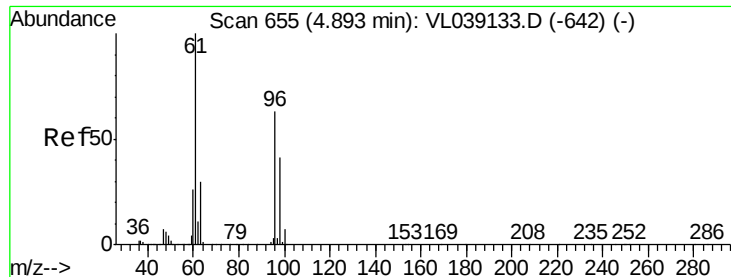
Tot Ion: 96 Resp: 1718  
 Ion Ratio Lower Upper  
 96 100  
 61 29.3 138.4 207.6#  
 98 0.0 47.8 71.8#



#20  
 Methylene Chloride  
 Concen: 0.119 ppbv  
 RT: 4.35 min Scan# 487  
 Delta R.T. 0.00 min  
 Lab File: VL039248.D  
 Acq: 8 Jun 2022 23:45

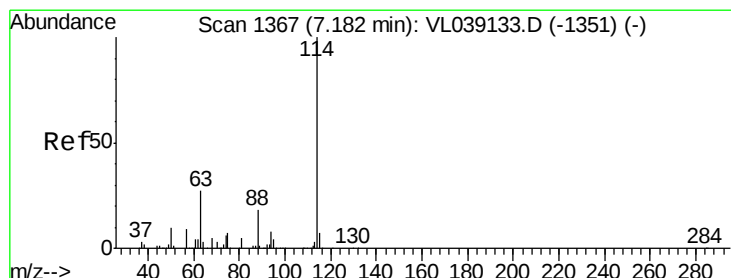
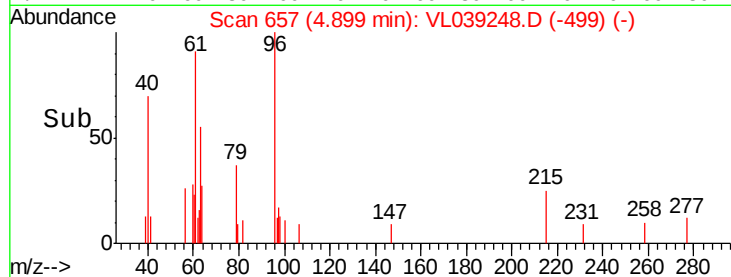
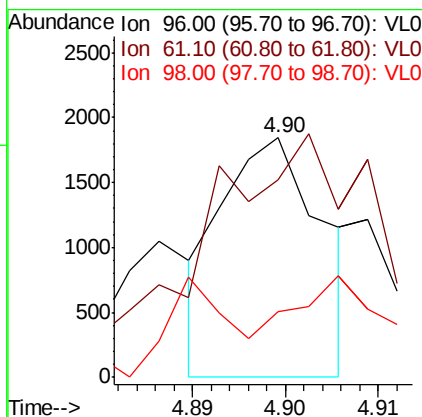
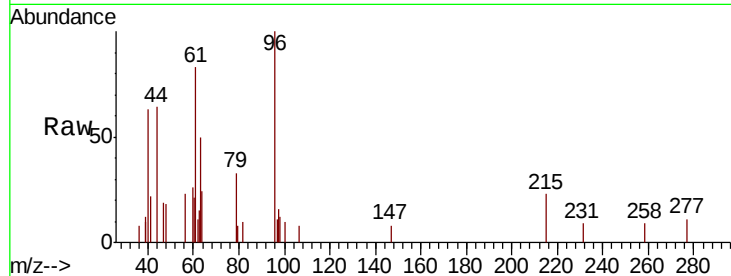
Tgt Ion: 84 Resp: 4395  
 Ion Ratio Lower Upper  
 84 100  
 49 105.8 111.1 166.7#  
 51 36.2 35.3 52.9  
 86 60.3 51.9 77.9





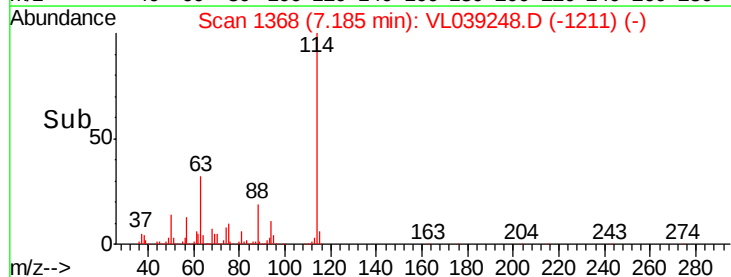
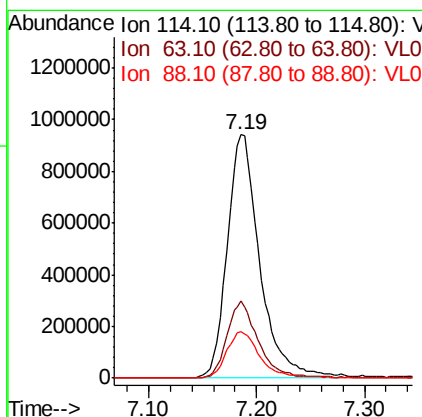
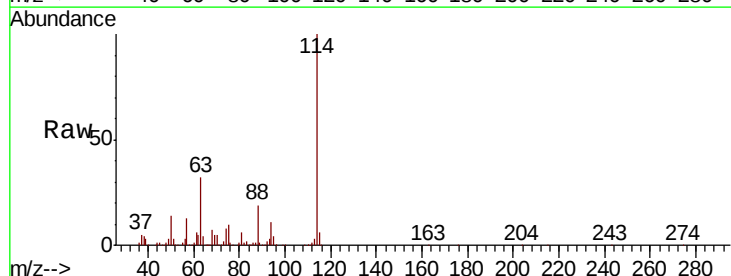
#22  
trans-1,2-Dichloroethene  
Concen: 0.037 ppbv  
RT: 4.90 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 8 Jun 2022 23:45  
LOD-MDL-AIR-01-QT2-2022

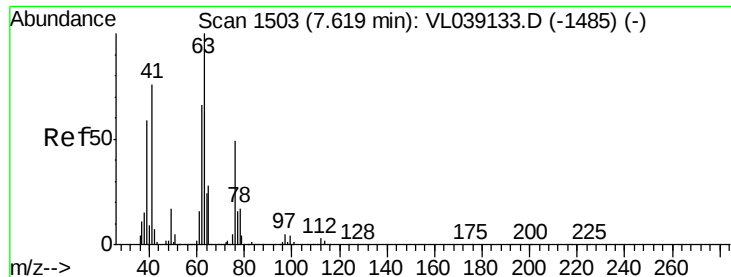
Tot Ion: 96 Resp: 1396  
Ion Ratio Lower Upper  
96 100  
61 95.8 126.6 190.0#  
98 0.0 52.5 78.7#



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.19 min Scan# 1368  
Delta R.T.: 0.00 min  
Lab File: VL039248.D  
Acq: 8 Jun 2022 23:45

Tgt Ion: 114 Resp: 1980796  
Ion Ratio Lower Upper  
114 100  
63 31.1 21.7 32.5  
88 19.6 14.8 22.2





#39

1,2-Dichloropropane

Concen: 9.191 ppbv

RT: 7.19 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 8 Jun 2022 23:45 LOD-MDL-AIR-01-OT2-2022

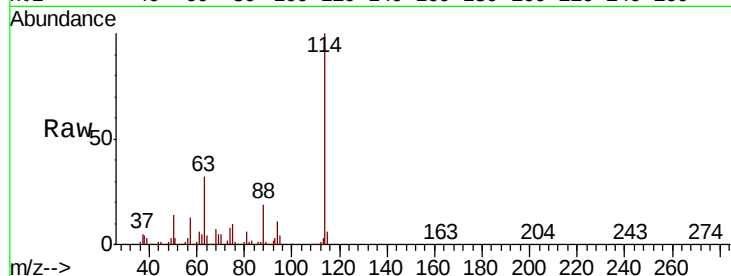
Tot Ion: 63 Resp: 587868

Ion Ratio Lower Upper

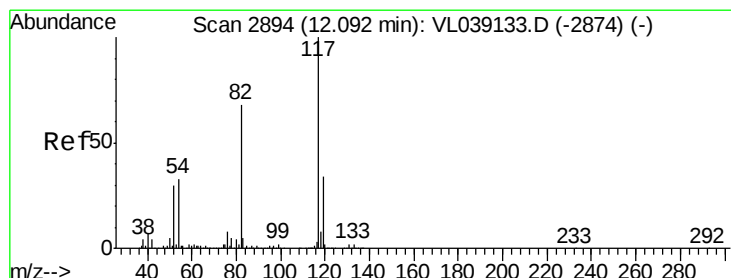
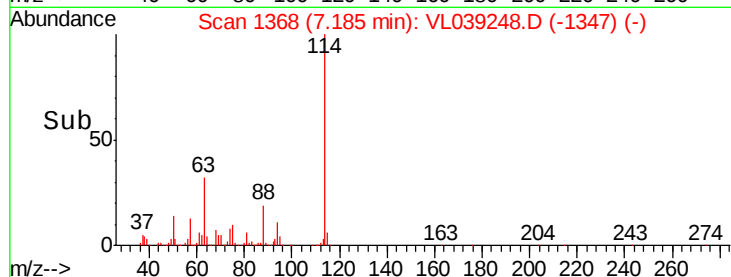
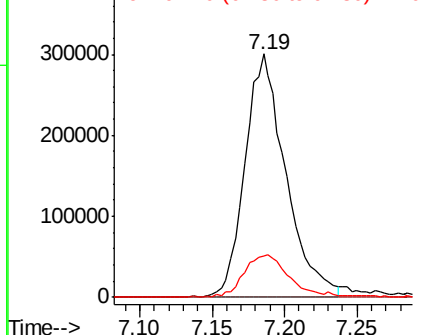
63 100

41 0.0 60.8 91.2#

62 17.2 52.9 79.3#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.01 min

Lab File: VL039248.D

Acq: 8 Jun 2022 23:45

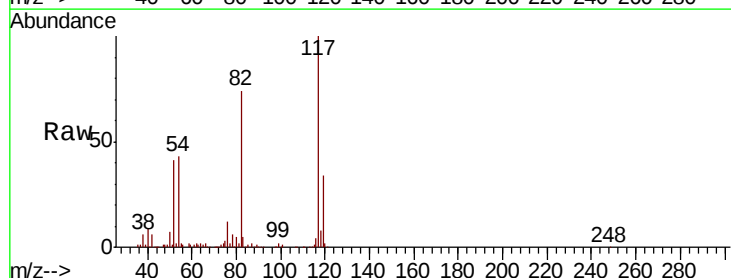
Tgt Ion: 117 Resp: 1614004

Ion Ratio Lower Upper

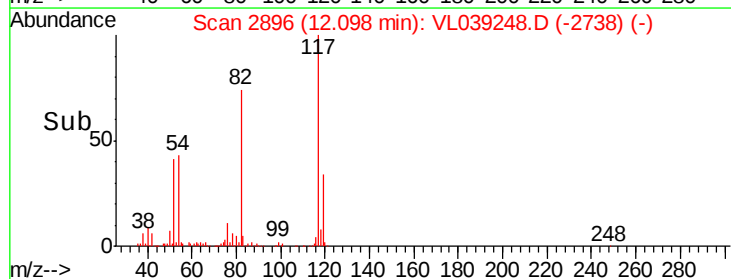
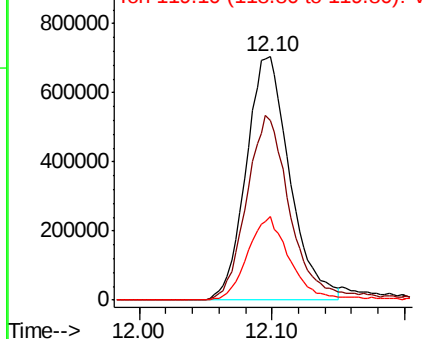
117 100

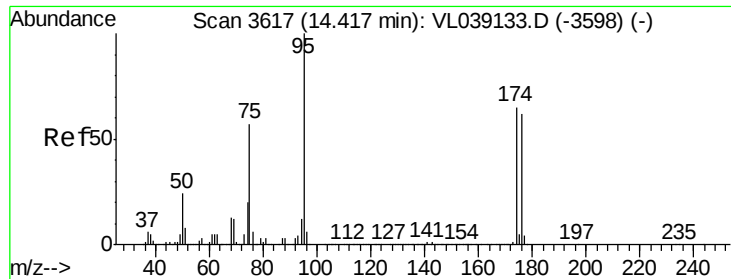
82 78.2 55.1 82.7

119 34.2 24.7 37.1



Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 11.079 ppbv

RT: 14.43

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 8 Jun 2022 23:43

Tot Ion: 95 Resp: 1478340

Ion Ratio Lower Upper

95 100

174 57.6 53.8 80.8

175 4.5 4.1 6.1

