

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL100721\  
 Data File : VL037809.D  
 Acq On : 7 Oct 2021 23:40  
 Operator : SY/AP  
 Sample : M4079-14DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P08DL

Quant Time: Oct 08 10:07:59 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL100421AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Mon Oct 04 17:43:54 2021  
 QLast Update : Mon Oct 04 17:43:54 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1345914  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4109344  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 3509658  | 10.00 | ppbv  | -0.02    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2411868  | 9.83     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.30% |

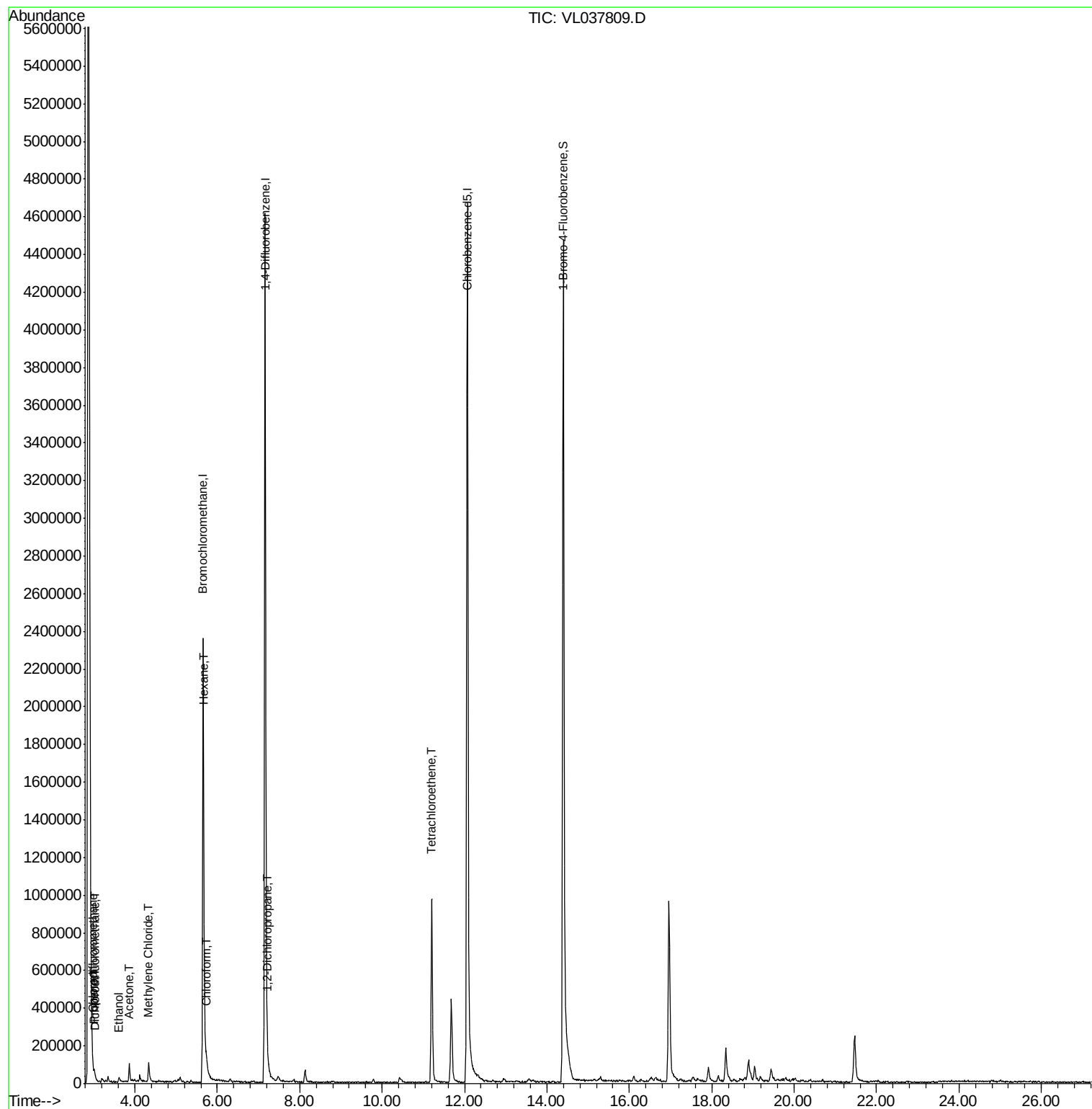
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane | 3.04  | 85   | 5725     | 0.027 | ppbv # | 75     |
| 3) Chlorodifluoromethane   | 2.98  | 51   | 11030    | 0.043 | ppbv # | 87     |
| 9) Propene                 | 3.01  | 41   | 12884    | 0.135 | ppbv # | 16     |
| 13) Ethanol                | 3.61  | 45   | 10353    | 1.330 | ppbv # | 27     |
| 15) Acetone                | 3.86  | 43   | 23897    | 0.198 | ppbv # | 46     |
| 20) Methylene Chloride     | 4.33  | 84   | 31154    | 0.510 | ppbv   | 96     |
| 26) Hexane                 | 5.67  | 57   | 13623    | 0.082 | ppbv # | 39     |
| 29) Chloroform             | 5.74  | 83   | 19396    | 0.081 | ppbv   | 97     |
| 39) 1,2-Dichloropropane    | 7.22  | 63   | 10165    | 0.077 | ppbv # | 24     |
| 52) Tetrachloroethene      | 11.20 | 164  | 168330   | 1.233 | ppbv   | 96     |

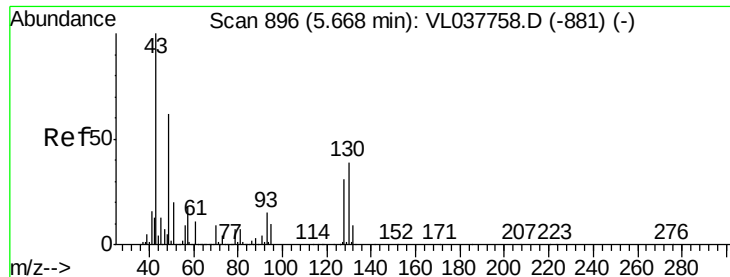
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Oct 04 17:43:54 2021  
QLast Update : Mon Oct 04 17:43:54 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037809.D

Acq: 7 Oct 2021 23:40

Instrument :

MSVOA\_L

ClientSampleId :

C0P08DL

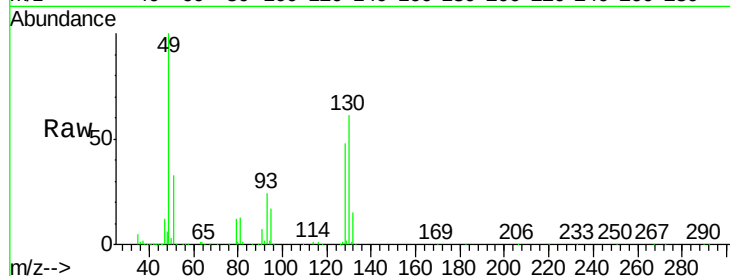
Tgt Ion: 49 Resp: 1345914

Ion Ratio Lower Upper

49 100

128 54.3 27.1 81.3

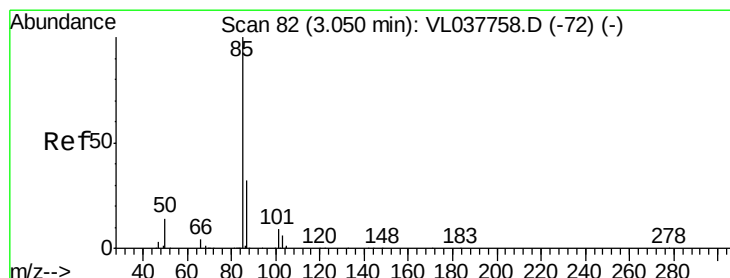
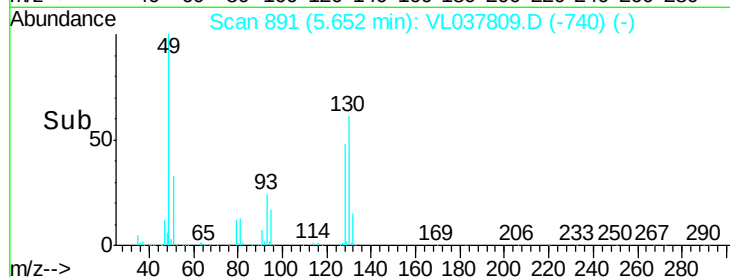
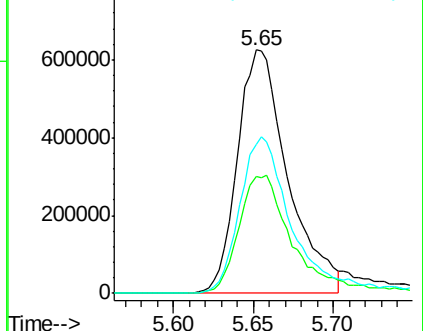
130 70.7 33.2 99.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.027 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL037809.D

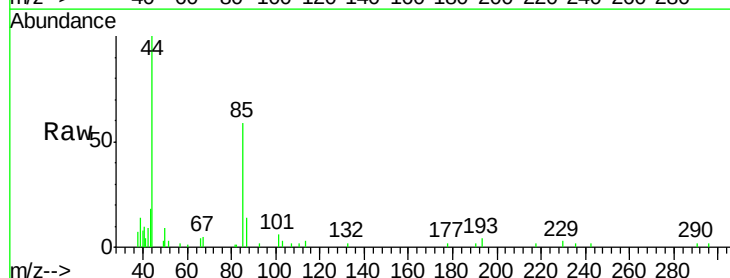
Acq: 7 Oct 2021 23:40

Tgt Ion: 85 Resp: 5725

Ion Ratio Lower Upper

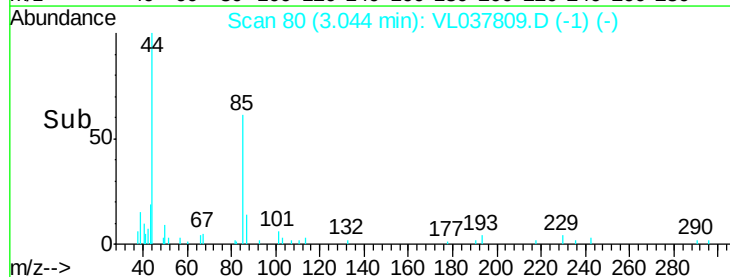
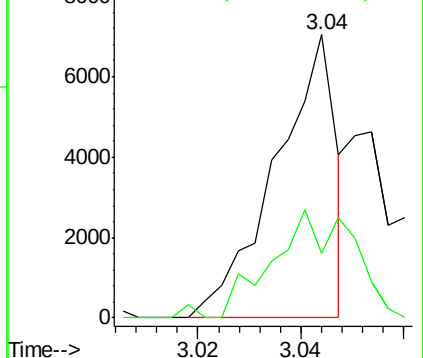
85 100

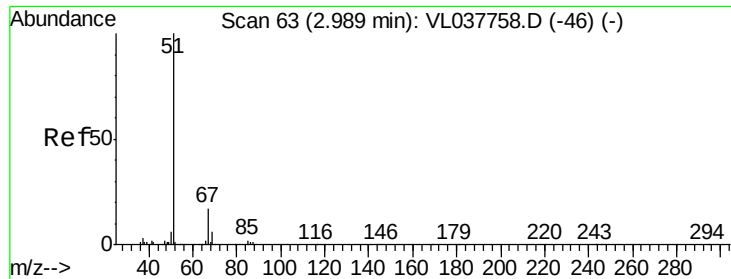
87 18.0 25.7 38.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.043 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL037809.D

Acq: 7 Oct 2021 23:40

Instrument :

MSVOA\_L

ClientSampleId :

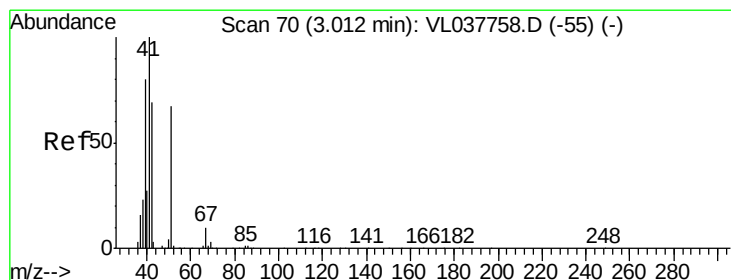
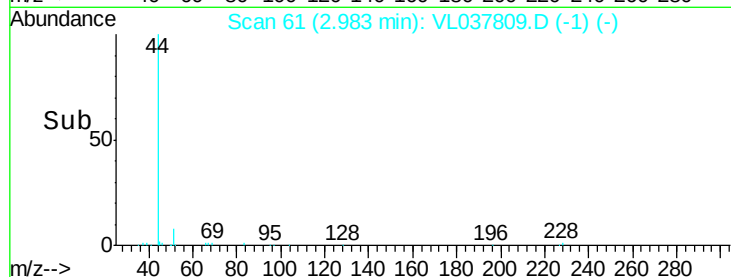
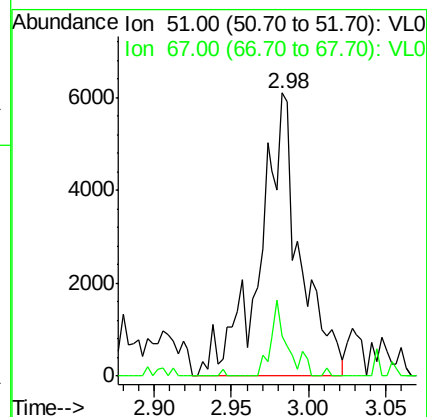
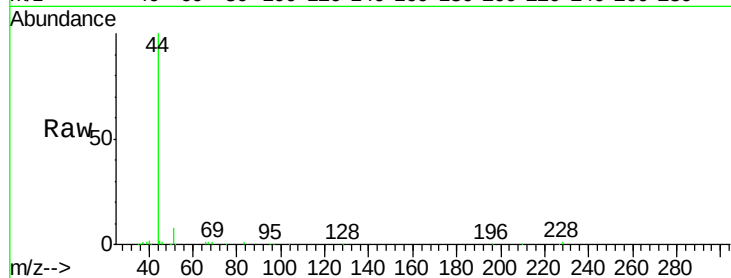
C0P08DL

Tgt Ion: 51 Resp: 11030

Ion Ratio Lower Upper

51 100

67 11.3 13.5 20.3#



#9

Propene

Concen: 0.135 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037809.D

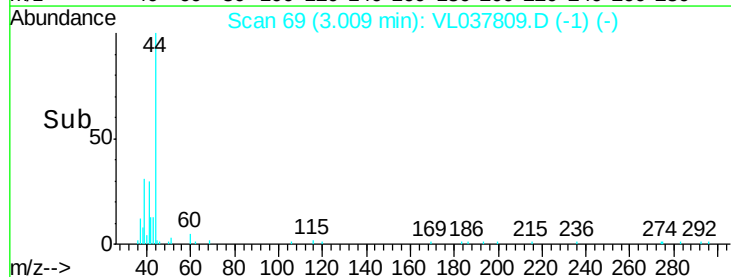
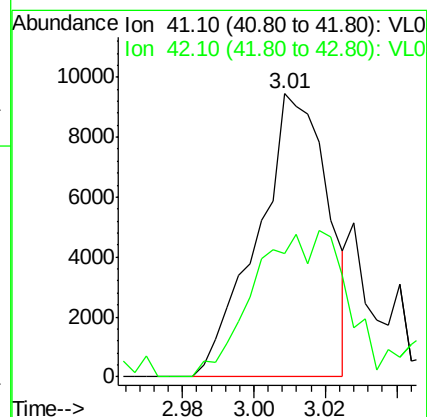
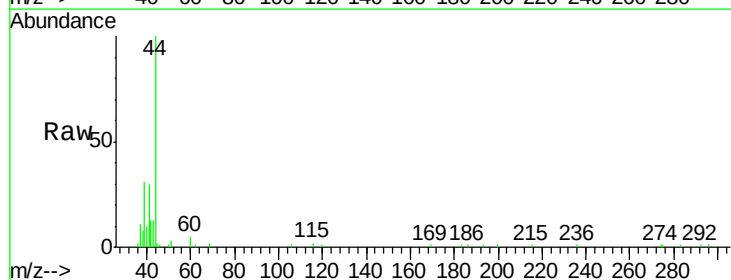
Acq: 7 Oct 2021 23:40

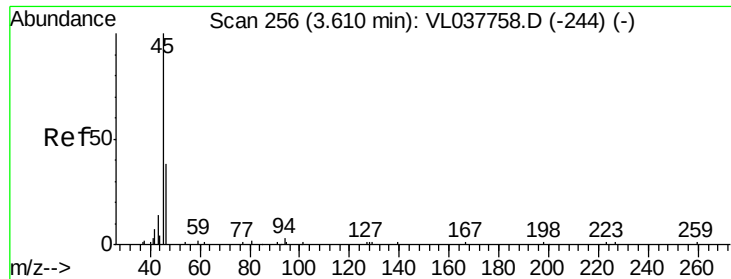
Tgt Ion: 41 Resp: 12884

Ion Ratio Lower Upper

41 100

42 0.0 54.2 81.2#





#13

Ethanol

Concen: 1.330 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL037809.D

Acq: 7 Oct 2021 23:40

Instrument :

MSVOA\_L

ClientSampleId :

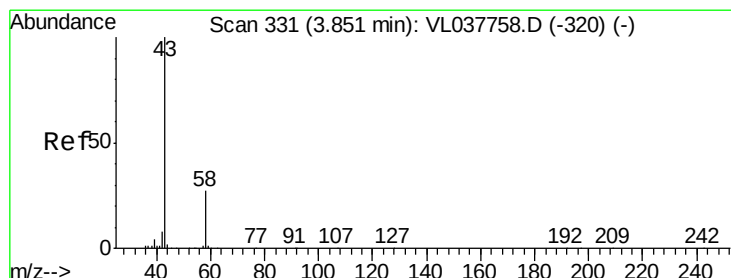
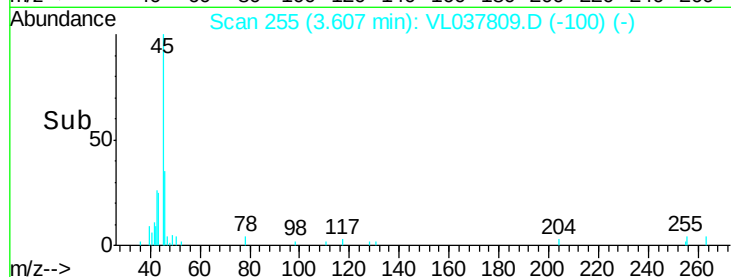
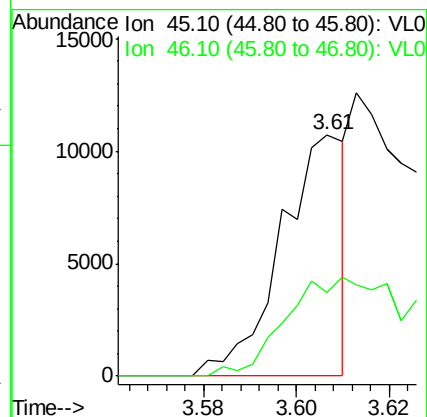
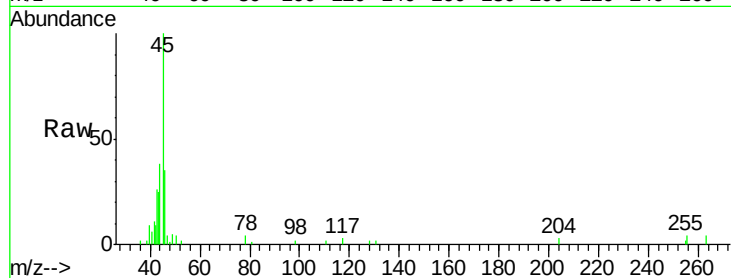
C0P08DL

Tgt Ion: 45 Resp: 10353

Ion Ratio Lower Upper

45 100

46 0.0 20.2 81.0#



#15

Acetone

Concen: 0.198 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL037809.D

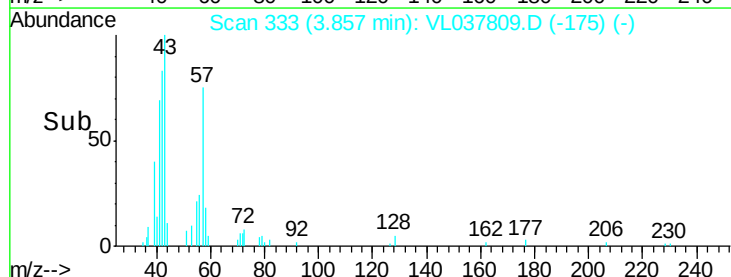
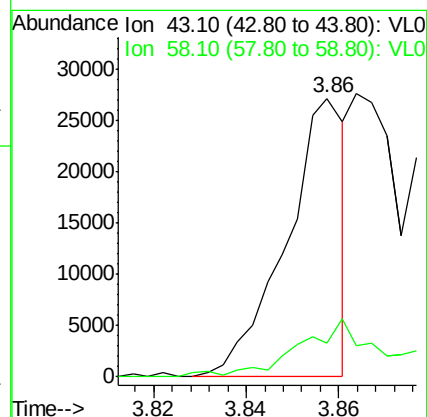
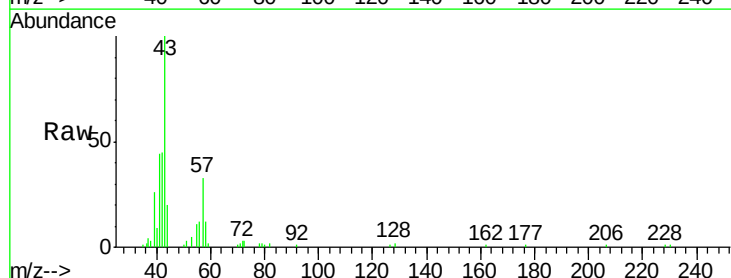
Acq: 7 Oct 2021 23:40

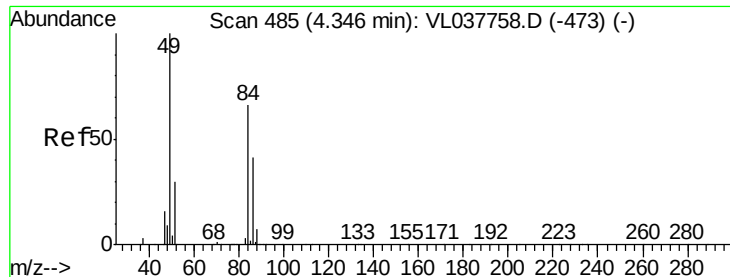
Tgt Ion: 43 Resp: 23897

Ion Ratio Lower Upper

43 100

58 0.0 23.0 34.6#

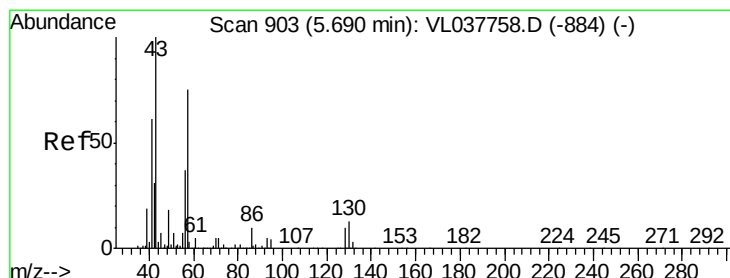
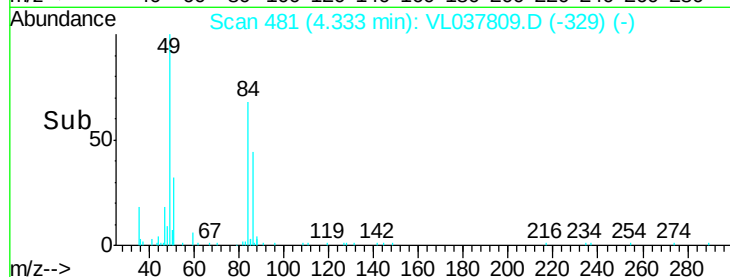
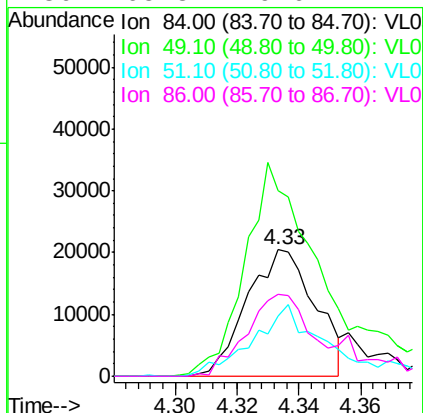
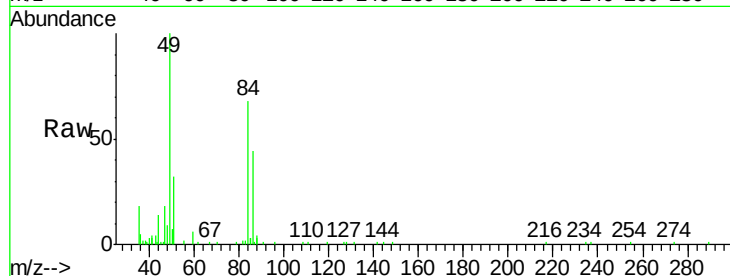




#20  
Methylene Chloride  
Concen: 0.510 ppbv  
RT: 4.33 min Scan# 481  
Delta R.T. -0.01 min  
Lab File: VL037809.D  
Acq: 7 Oct 2021 23:40

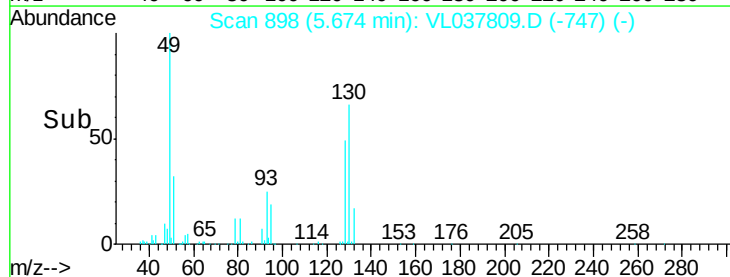
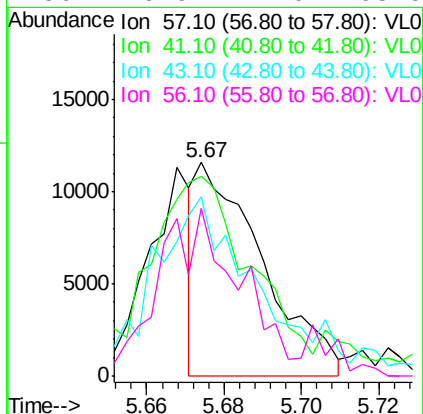
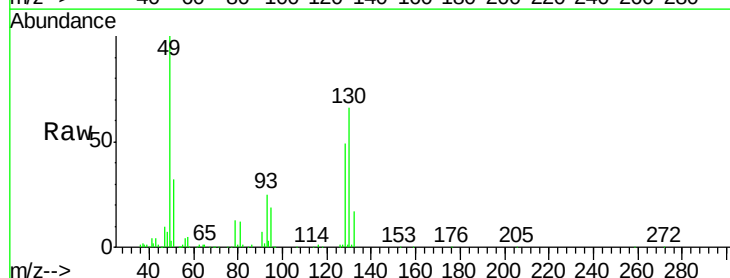
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P08DL

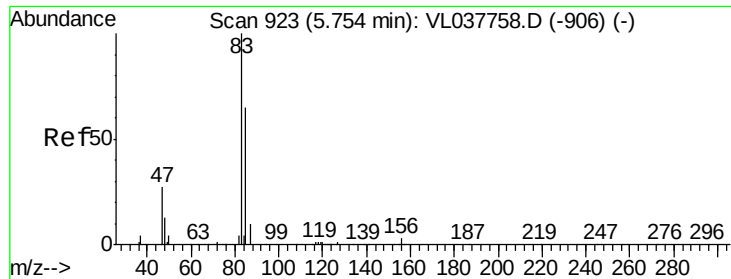
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 31154 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 144.7 | 120.7 | 181.1 |
| 51       | 46.6  | 36.2  | 54.4  |
| 86       | 65.3  | 49.6  | 74.4  |



#26  
Hexane  
Concen: 0.082 ppbv  
RT: 5.67 min Scan# 898  
Delta R.T. -0.02 min  
Lab File: VL037809.D  
Acq: 7 Oct 2021 23:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 13623  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 173.8 | 69.6  | 104.4# |
| 43       | 146.4 | 171.4 | 257.0# |
| 56       | 110.9 | 42.0  | 63.0#  |

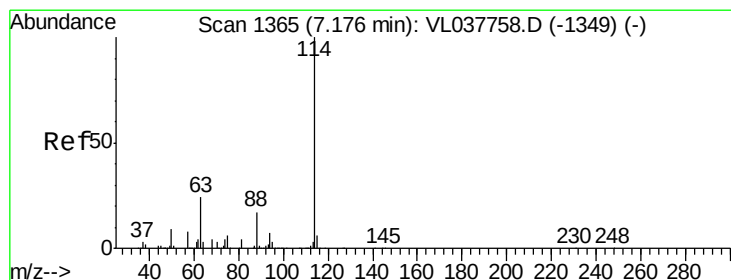
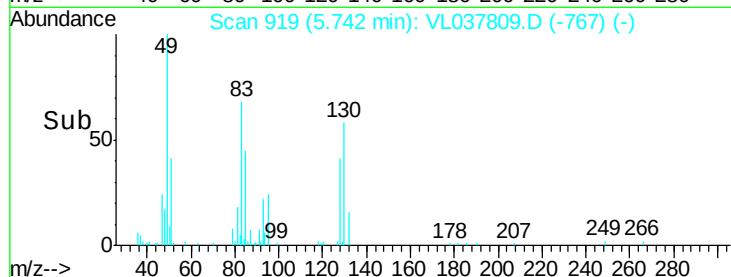
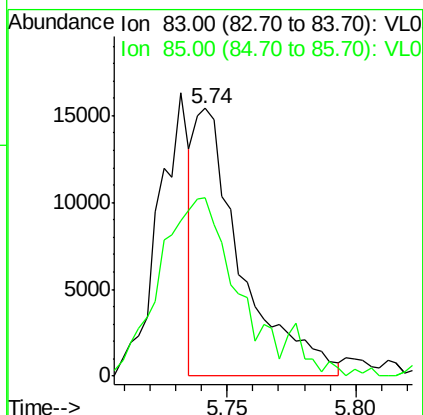
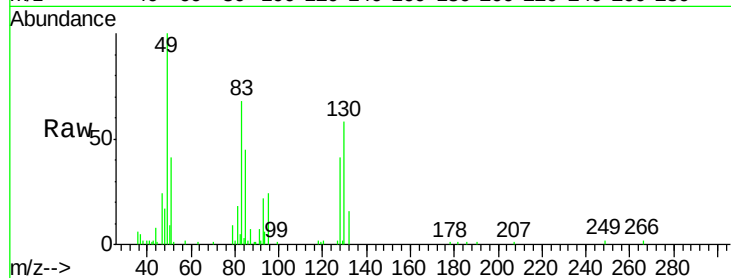




#29  
Chloroform  
Concen: 0.081 ppbv  
RT: 5.74 min Scan# 919  
Delta R.T. -0.01 min  
Lab File: VL037809.D  
Acq: 7 Oct 2021 23:40

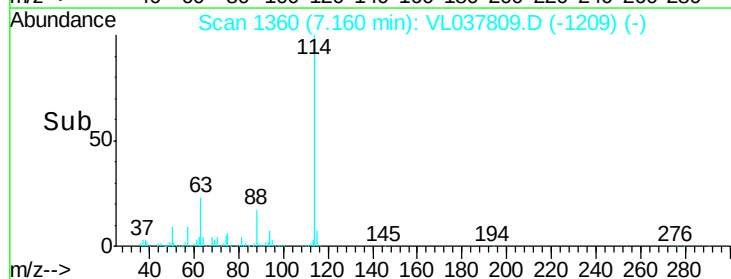
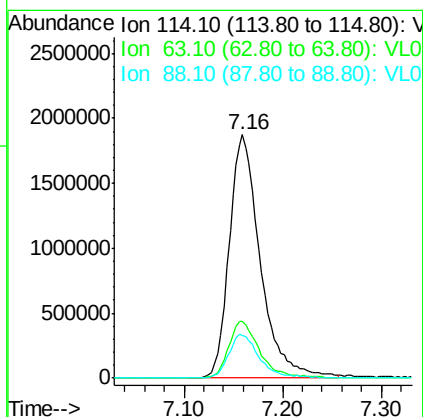
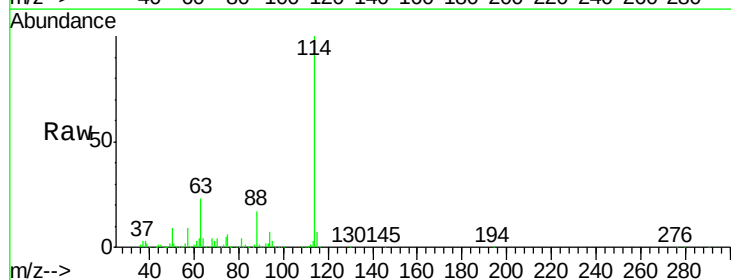
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P08DL

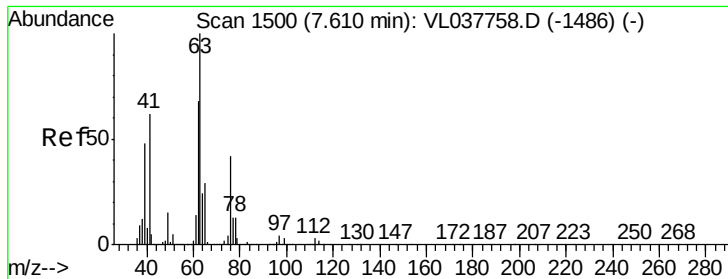
Tgt Ion: 83 Resp: 19396  
Ion Ratio Lower Upper  
83 100  
85 67.1 51.8 77.8



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.16 min Scan# 1360  
Delta R.T. -0.02 min  
Lab File: VL037809.D  
Acq: 7 Oct 2021 23:40

Tgt Ion: 114 Resp: 4109344  
Ion Ratio Lower Upper  
114 100  
63 23.7 19.4 29.2  
88 18.2 14.4 21.6

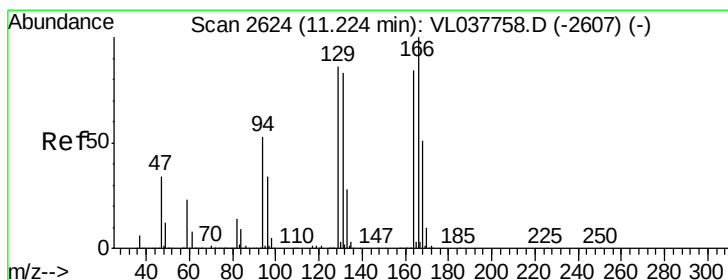
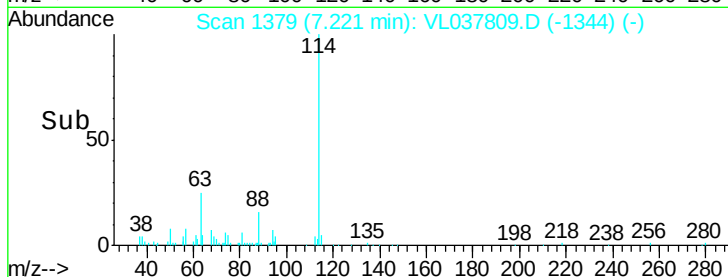
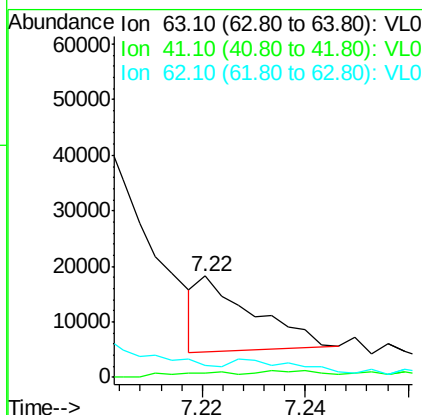
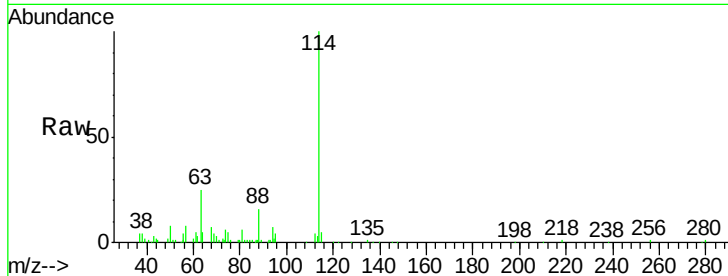




#39  
 1,2-Dichloropropane  
 Concen: 0.077 ppbv  
 RT: 7.22 min Scan# 1379  
 Delta R.T. -0.39 min  
 Lab File: VL037809.D  
 Acq: 7 Oct 2021 23:40

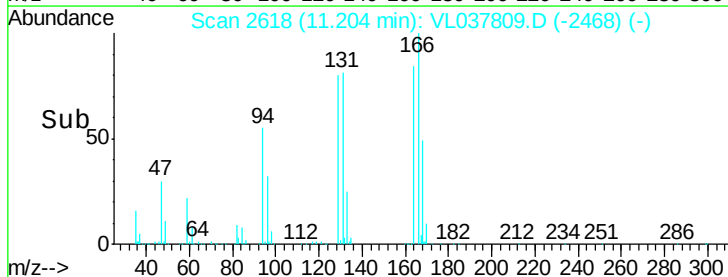
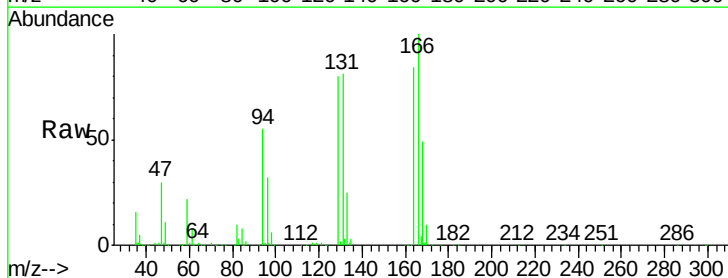
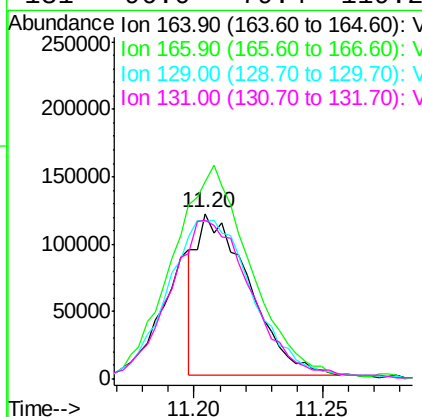
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P08DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 1.6   | 49.8  | 74.6# |
| 62      | 9.0   | 54.6  | 82.0# |

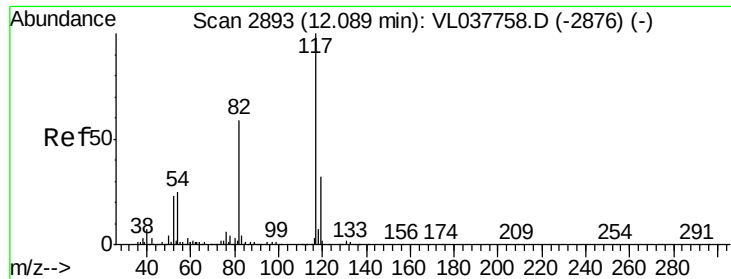


#52  
 Tetrachloroethene  
 Concen: 1.233 ppbv  
 RT: 11.20 min Scan# 2618  
 Delta R.T. -0.02 min  
 Lab File: VL037809.D  
 Acq: 7 Oct 2021 23:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 119.1 | 95.4  | 143.2 |
| 129     | 94.4  | 82.2  | 123.4 |
| 131     | 96.0  | 79.4  | 119.2 |







#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.02 min

Lab File: VL037809.D

Acq: 7 Oct 2021 23:40

Instrument :

MSVOA\_L

ClientSampleId :

C0P08DL

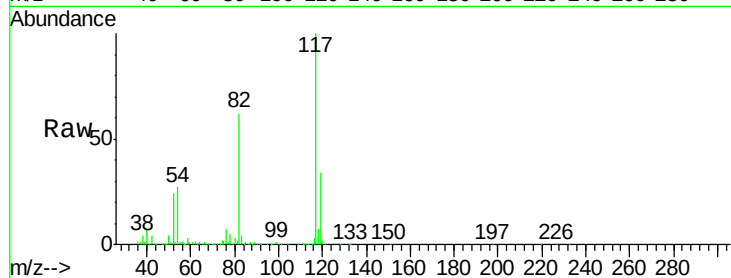
Tgt Ion: 117 Resp: 3509658

Ion Ratio Lower Upper

117 100

82 64.4 52.2 78.2

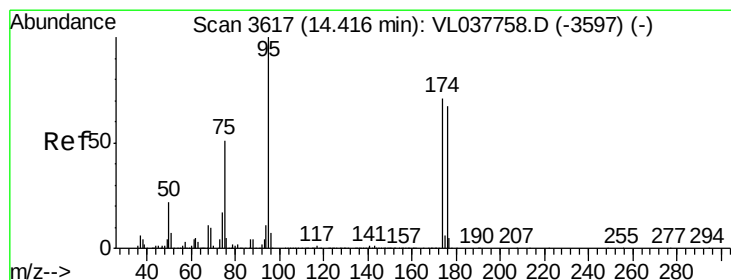
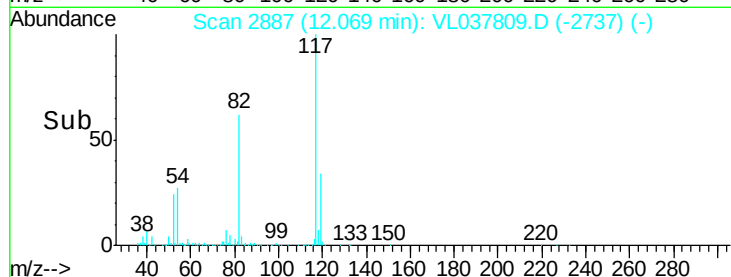
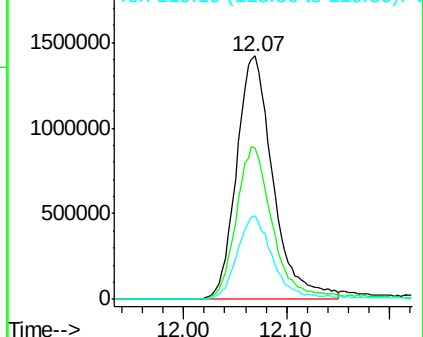
119 34.9 26.0 39.0



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: 9.827 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.02 min

Lab File: VL037809.D

Acq: 7 Oct 2021 23:40

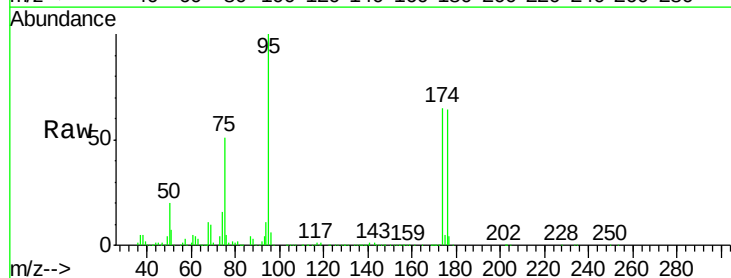
Tgt Ion: 95 Resp: 2411868

Ion Ratio Lower Upper

95 100

174 77.1 57.8 86.6

175 5.9 4.7 7.1



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

