

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022521\  
 Data File : VL036388.D  
 Acq On : 25 Feb 2021 19:30  
 Operator : SY/AP  
 Sample : M1458-14 0.03 LOQ  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Feb 26 00:38:03 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Feb 10 16:04:02 2021  
 QLast Update : Wed Feb 10 16:04:02 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1545560  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 3309319  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 2997761  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 2351282  | 9.53     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 95.30% |

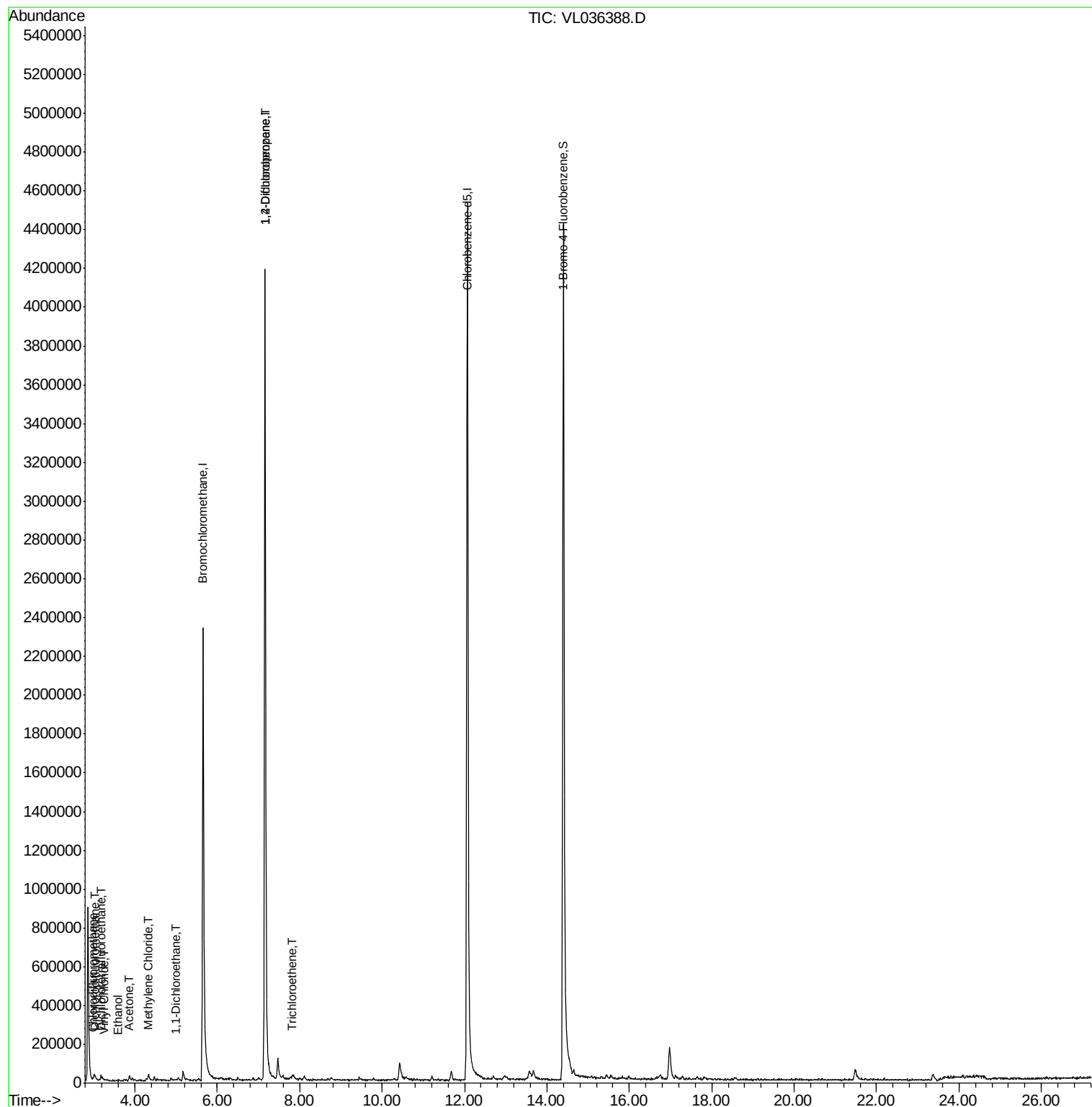
| Target Compounds             | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane   | 3.03 | 85   | 11942    | 0.052 | ppbv   | 92     |
| 3) Chlorodifluoromethane     | 2.98 | 51   | 9750     | 0.051 | ppbv # | 92     |
| 5) Vinyl Chloride            | 3.24 | 62   | 2620     | 0.030 | ppbv # | 82     |
| 8) Dichlorotetrafluoroethane | 3.17 | 85   | 8542     | 0.041 | ppbv # | 82     |
| 13) Ethanol                  | 3.60 | 45   | 799      | 0.059 | ppbv # | 32     |
| 15) Acetone                  | 3.86 | 43   | 21862    | 0.116 | ppbv # | 1      |
| 20) Methylene Chloride       | 4.33 | 84   | 3481     | 0.057 | ppbv # | 87     |
| 24) 1,1-Dichloroethane       | 5.00 | 63   | 6310     | 0.038 | ppbv # | 89     |
| 38) Trichloroethene          | 7.82 | 130  | 3109     | 0.031 | ppbv # | 56     |
| 39) 1,2-Dichloropropane      | 7.16 | 63   | 952599   | 8.342 | ppbv # | 23     |

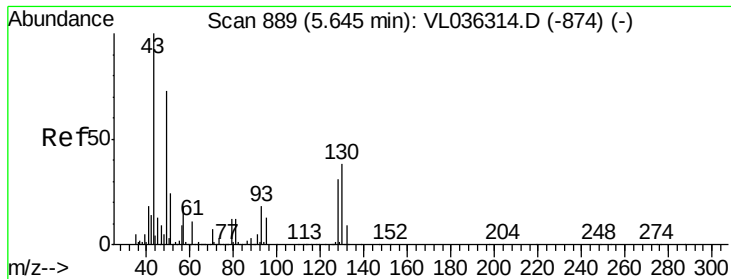
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022521\  
Data File : VL036388.D  
Acq On : 25 Feb 2021 19:30  
Operator : SY/AP  
Sample : M1458-14 0.03 LOQ  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :

Quant Time: Feb 26 00:38:03 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Feb 10 16:04:02 2021  
QLast Update : Wed Feb 10 16:04:02 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.01 min

Lab File: VL036388.D

Acq: 25 Feb 2021 19:30

Instrument :  
MSVOA\_L  
ClientSampleId :

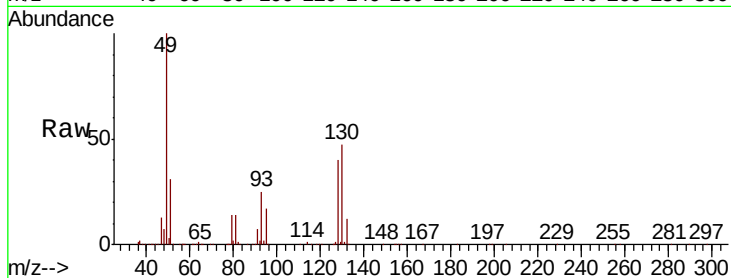
Tot Ion: 49 Resp: 1545560

Ion Ratio Lower Upper

49 100

128 41.3 20.8 62.5

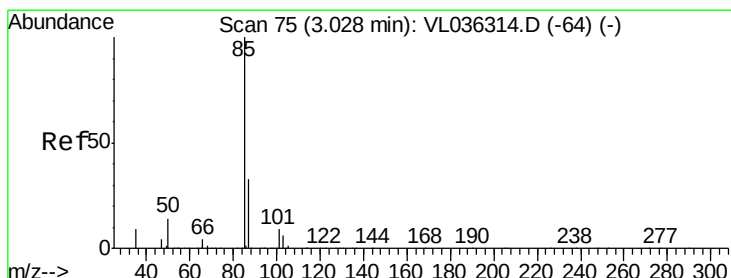
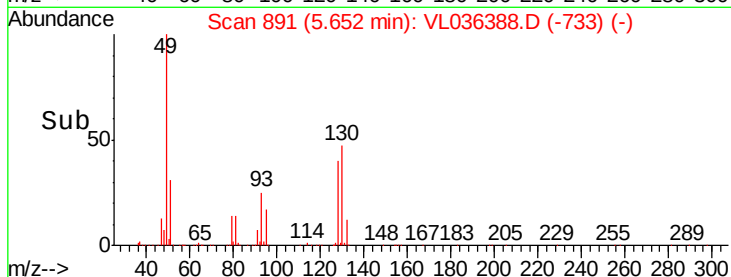
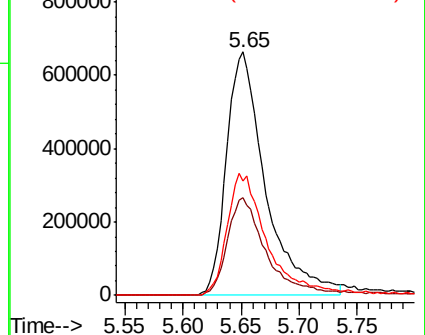
130 53.7 26.7 80.1



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



#2

Dichlorodifluoromethane

Concen: 0.052 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL036388.D

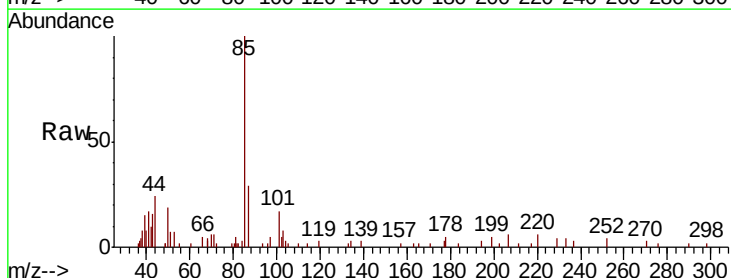
Acq: 25 Feb 2021 19:30

Tgt Ion: 85 Resp: 11942

Ion Ratio Lower Upper

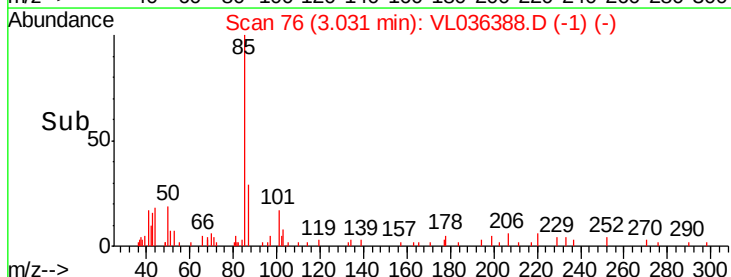
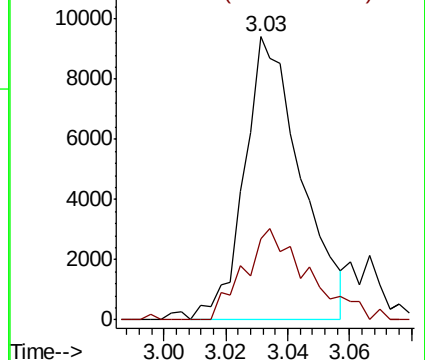
85 100

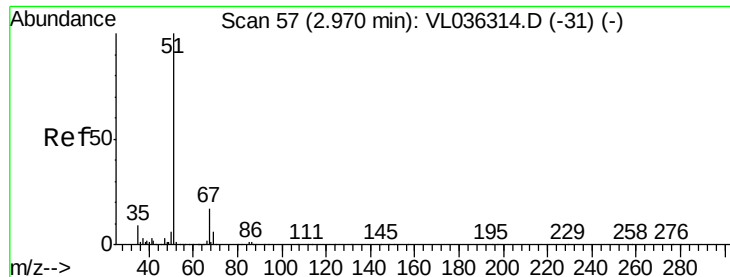
87 28.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.051 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL036388.D

Acq: 25 Feb 2021 19:30

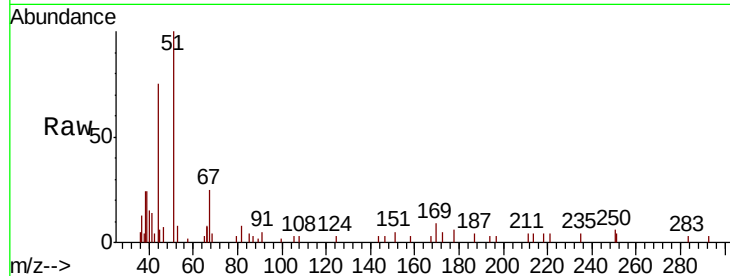
Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 51 Resp: 9750

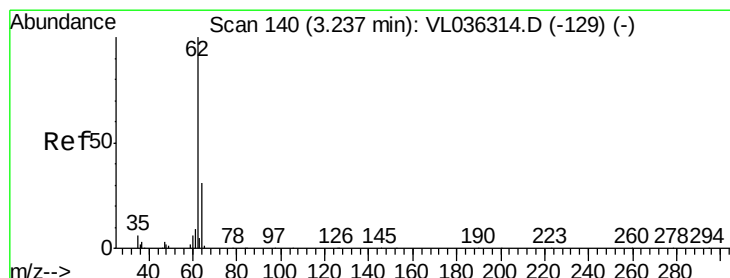
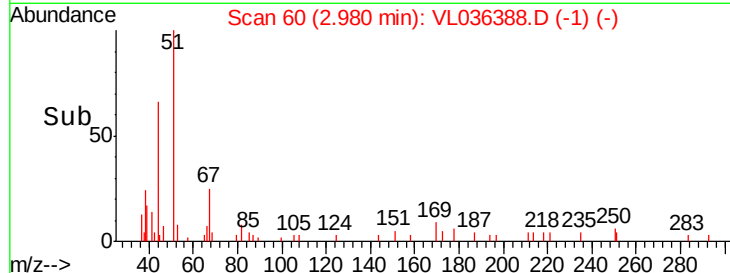
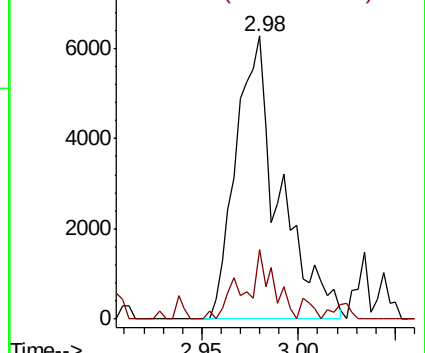
Ion Ratio Lower Upper

51 100

67 22.2 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0  
Ion 67.00 (66.70 to 67.70): VL0



#5

Vinyl Chloride

Concen: 0.030 ppbv

RT: 3.24 min Scan# 141

Delta R.T. 0.00 min

Lab File: VL036388.D

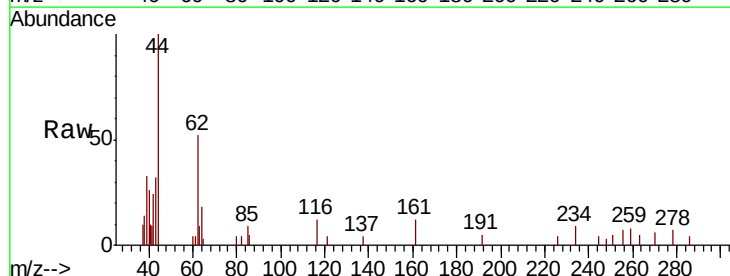
Acq: 25 Feb 2021 19:30

Tgt Ion: 62 Resp: 2620

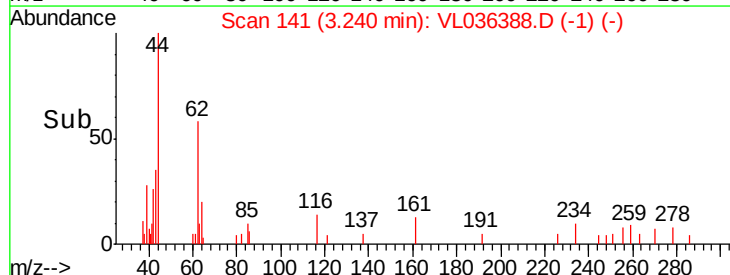
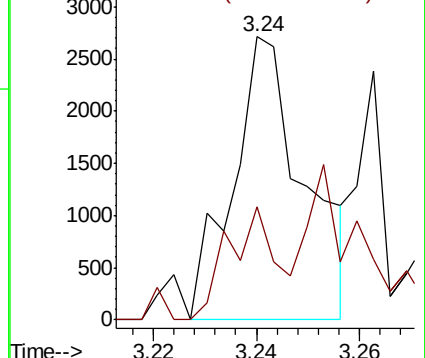
Ion Ratio Lower Upper

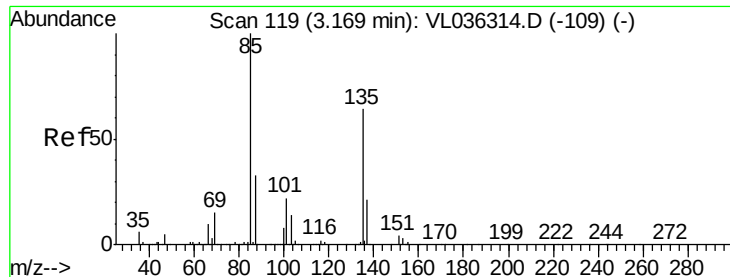
62 100

64 40.1 24.4 36.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0  
Ion 64.10 (63.80 to 64.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.041 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL036388.D

Acq: 25 Feb 2021 19:30

Instrument :

MSVOA\_L

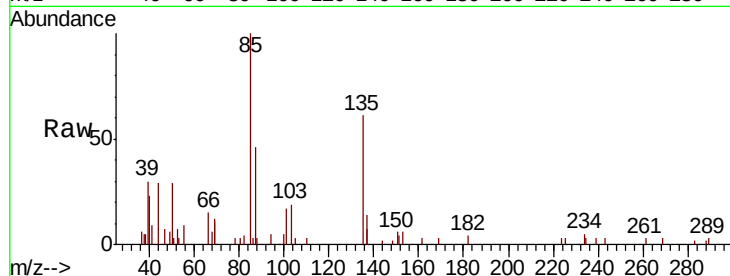
ClientSampled :

Tot Ion: 85 Resp: 8542

Ion Ratio Lower Upper

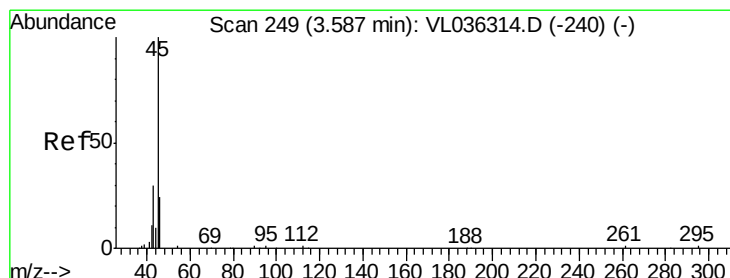
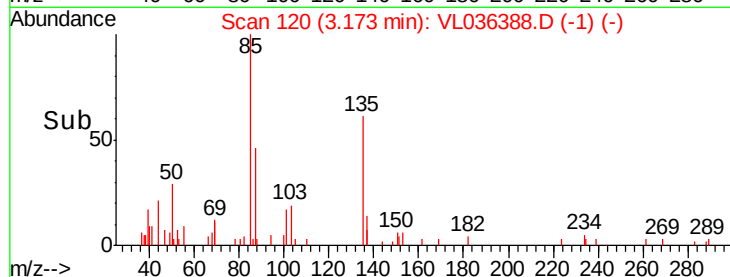
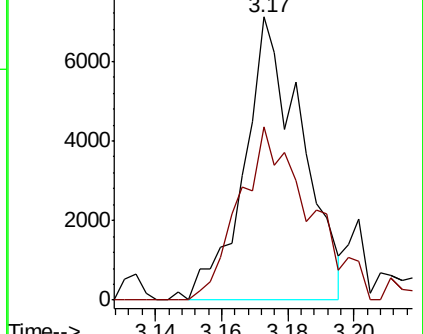
85 100

135 77.8 51.1 76.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#13

Ethanol

Concen: 0.059 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.01 min

Lab File: VL036388.D

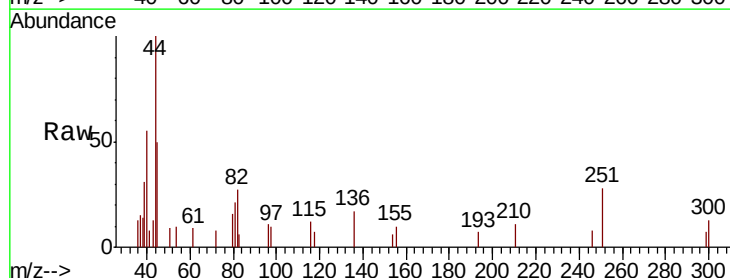
Acq: 25 Feb 2021 19:30

Tgt Ion: 45 Resp: 799

Ion Ratio Lower Upper

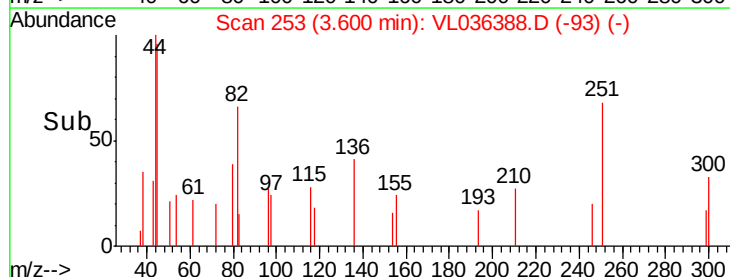
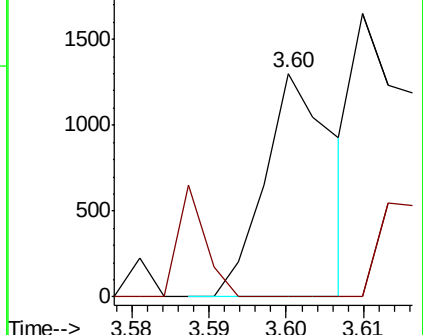
45 100

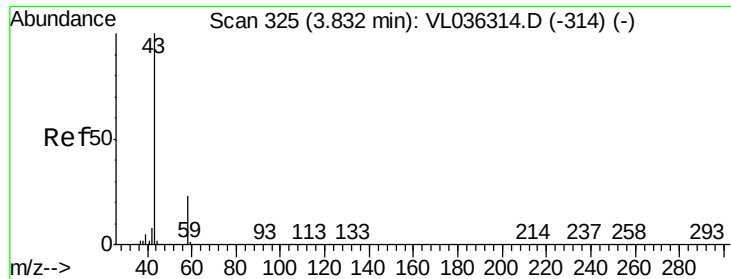
46 0.0 17.7 70.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

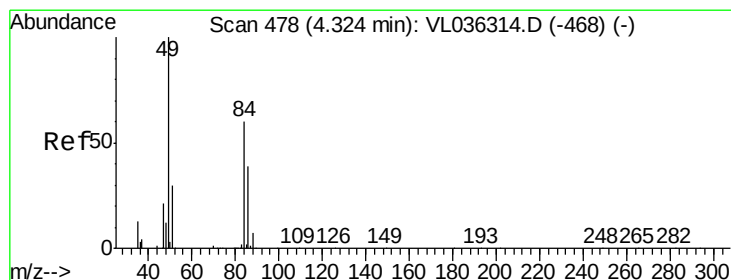
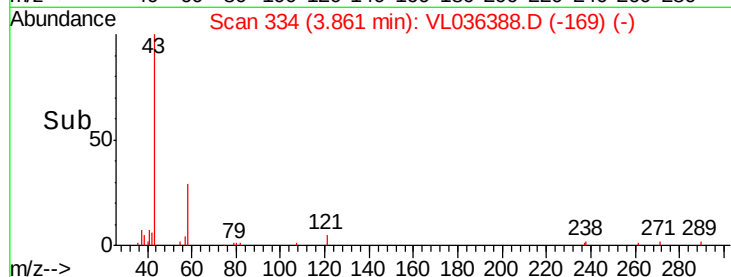
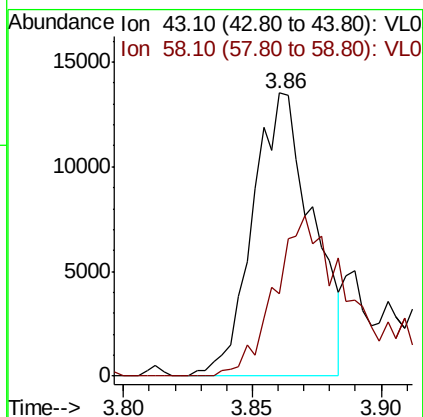
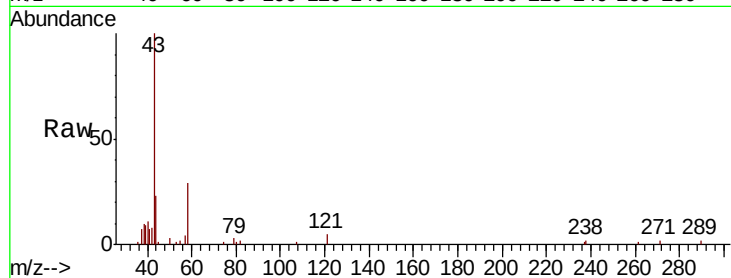




#15  
Acetone  
Concen: 0.116 ppbv  
RT: 3.86 min Scan# 334  
Delta R.T. 0.03 min  
Lab File: VL036388.D  
Acq: 25 Feb 2021 19:30

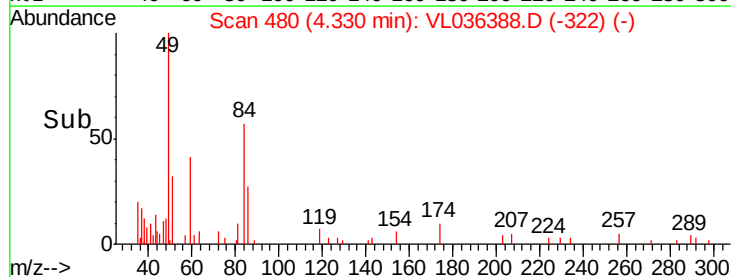
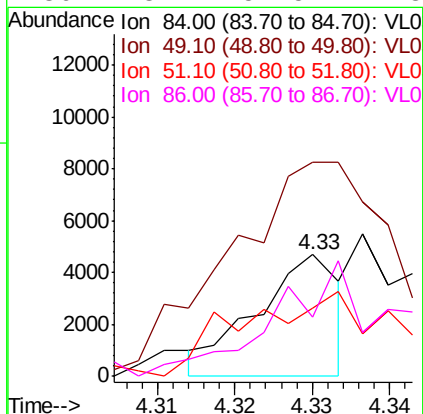
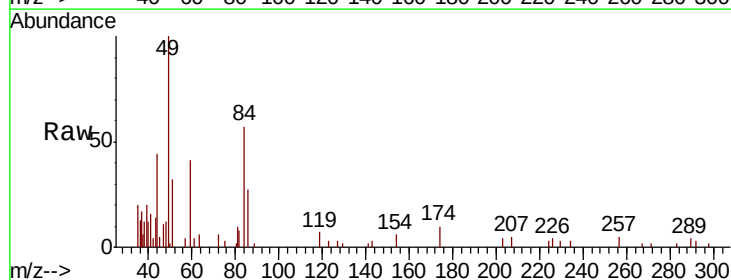
Instrument :  
MSVOA\_L  
ClientSampleId :

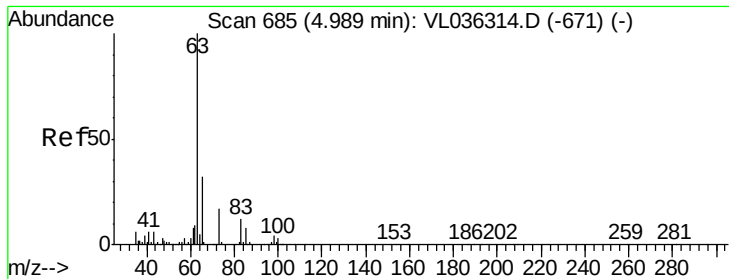
Tot Ion: 43 Resp: 21862  
Ion Ratio Lower Upper  
43 100  
58 86.8 20.3 30.5#



#20  
Methylene Chloride  
Concen: 0.057 ppbv  
RT: 4.33 min Scan# 480  
Delta R.T. 0.01 min  
Lab File: VL036388.D  
Acq: 25 Feb 2021 19:30

Tgt Ion: 84 Resp: 3481  
Ion Ratio Lower Upper  
84 100  
49 152.4 133.8 200.8  
51 52.8 41.4 62.0  
86 43.2 51.5 77.3#





#24

1,1-Dichloroethane

Concen: 0.038 ppbv

RT: 5.00 min Scan# 688

Delta R.T. 0.01 min

Lab File: VL036388.D

Acq: 25 Feb 2021 19:30

Instrument :

MSVOA\_L

ClientSampleId :

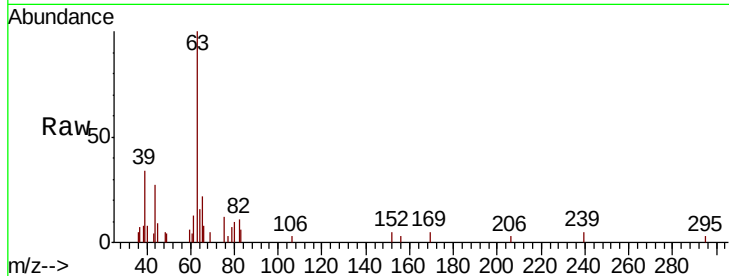
Tot Ion: 63 Resp: 6310

Ion Ratio Lower Upper

63 100

98 0.0 2.0 6.0#

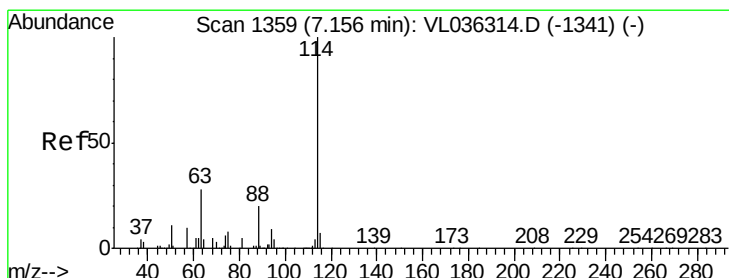
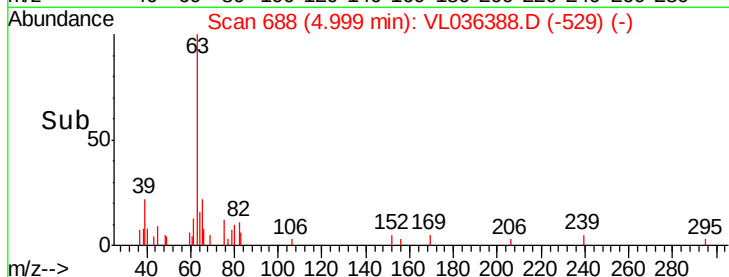
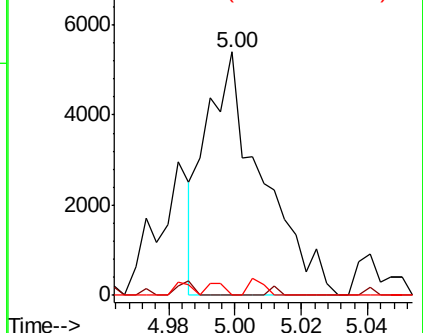
100 0.0 1.5 4.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VL036388.D

Acq: 25 Feb 2021 19:30

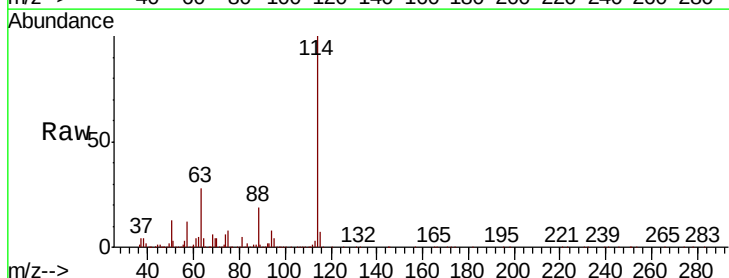
Tgt Ion: 114 Resp: 3309319

Ion Ratio Lower Upper

114 100

63 29.8 24.1 36.1

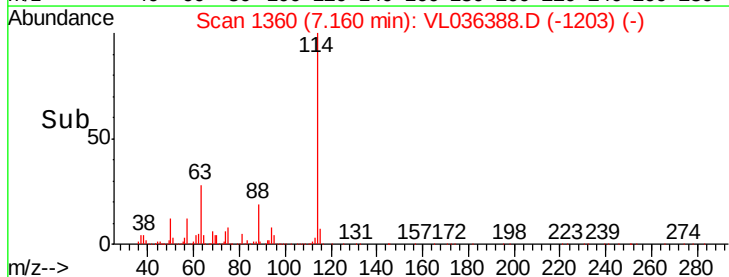
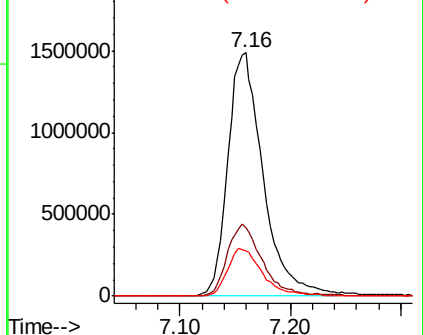
88 19.6 16.0 24.0

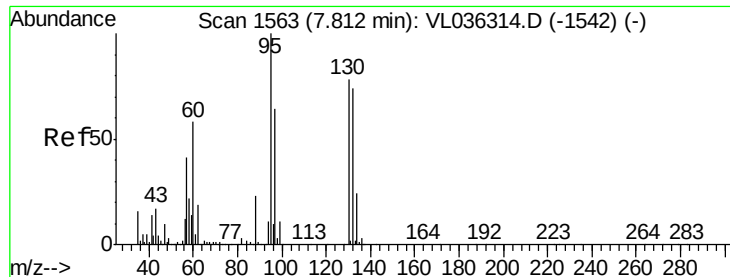


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#38

Trichloroethene

Concen: 0.031 ppbv

RT: 7.82 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VL036388.D

Acq: 25 Feb 2021 19:30

Instrument :

MSVOA\_L

ClientSampled :

Tot Ion:130 Resp: 3109

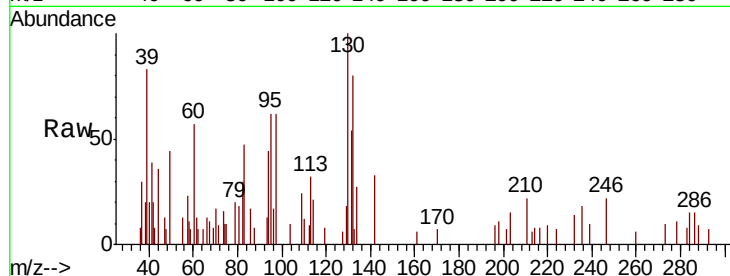
Ion Ratio Lower Upper

130 100

95 29.1 102.8 154.2#

132 78.3 75.7 113.5

97 75.0 66.2 99.2

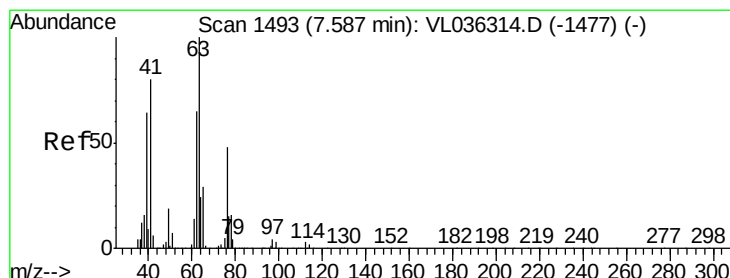
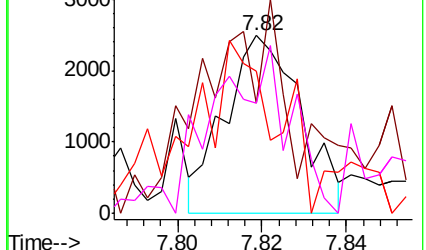
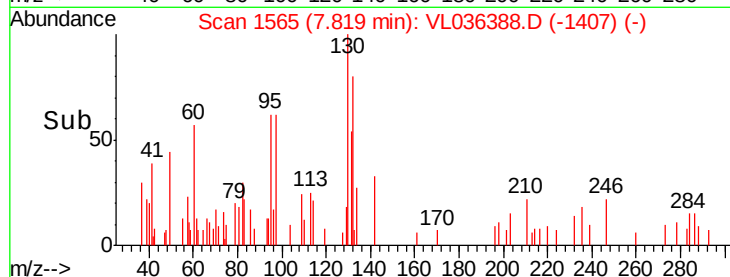


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.342 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.43 min

Lab File: VL036388.D

Acq: 25 Feb 2021 19:30

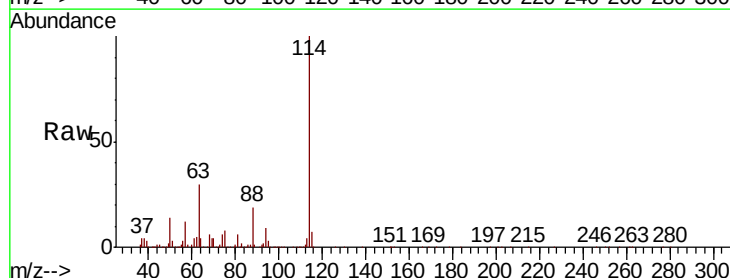
Tgt Ion: 63 Resp: 952599

Ion Ratio Lower Upper

63 100

41 0.1 63.8 95.6#

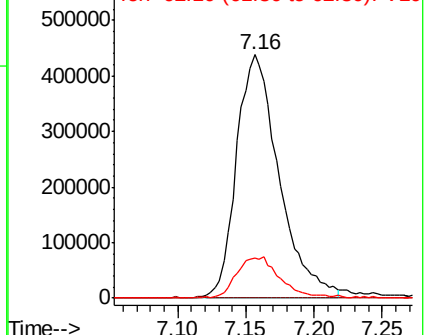
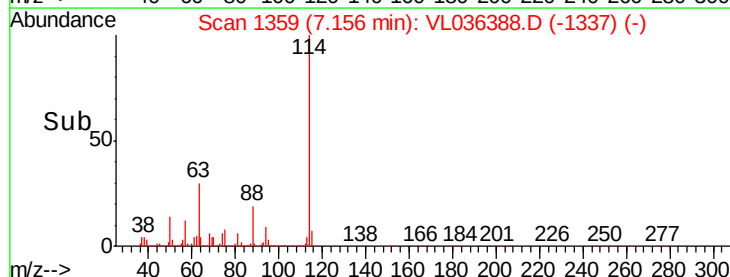
62 16.7 52.3 78.5#



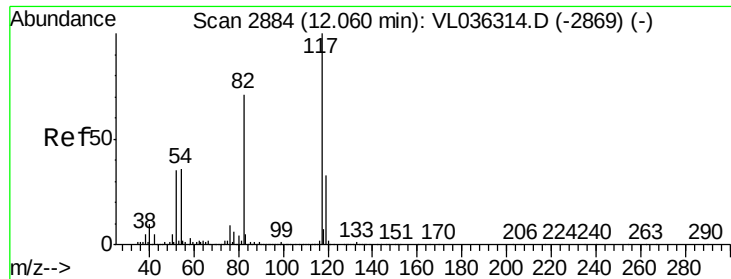
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



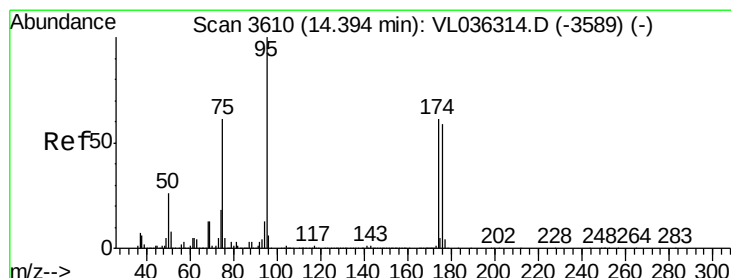
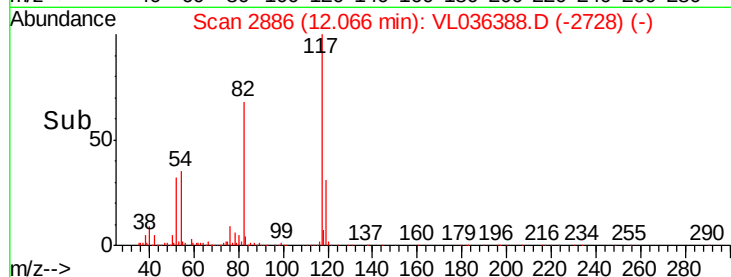
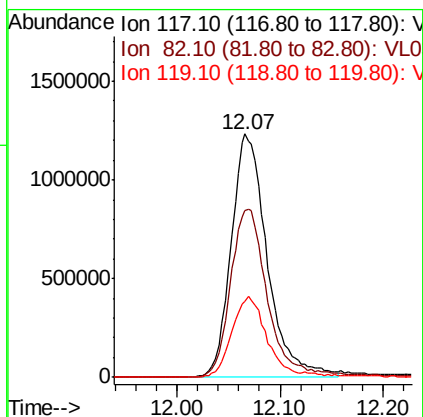
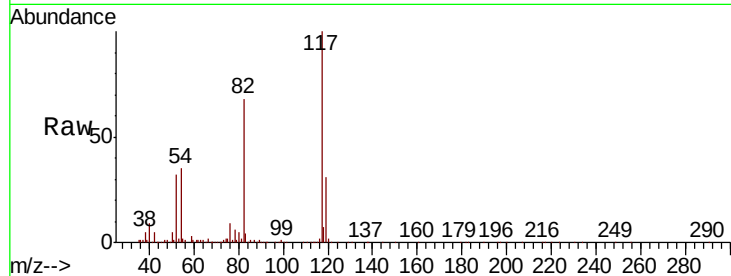




#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.07 min Scan# 2886  
 Delta R.T. 0.01 min  
 Lab File: VL036388.D  
 Acq: 25 Feb 2021 19:30

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:117 Resp: 2997761  
 Ion Ratio Lower Upper  
 117 100  
 82 72.8 59.1 88.7  
 119 33.8 46.3 69.5#



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.533 ppbv  
 RT: 14.40 min Scan# 3612  
 Delta R.T. 0.01 min  
 Lab File: VL036388.D  
 Acq: 25 Feb 2021 19:30

Tgt Ion: 95 Resp: 2351282  
 Ion Ratio Lower Upper  
 95 100  
 174 65.8 49.8 74.6  
 175 5.0 3.7 5.5

