

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\  
 Data File : VL038126.D  
 Acq On : 24 Nov 2021 8:31  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Quant Time: Nov 26 04:19:43 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   | 5.65  | 49   | 792207   | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 2290216  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.05 | 117  | 1967664  | 10.00 | ppbv  | -0.03    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.38  | 95    | 1578858  | 11.12    | ppbv | -0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 111.20% |

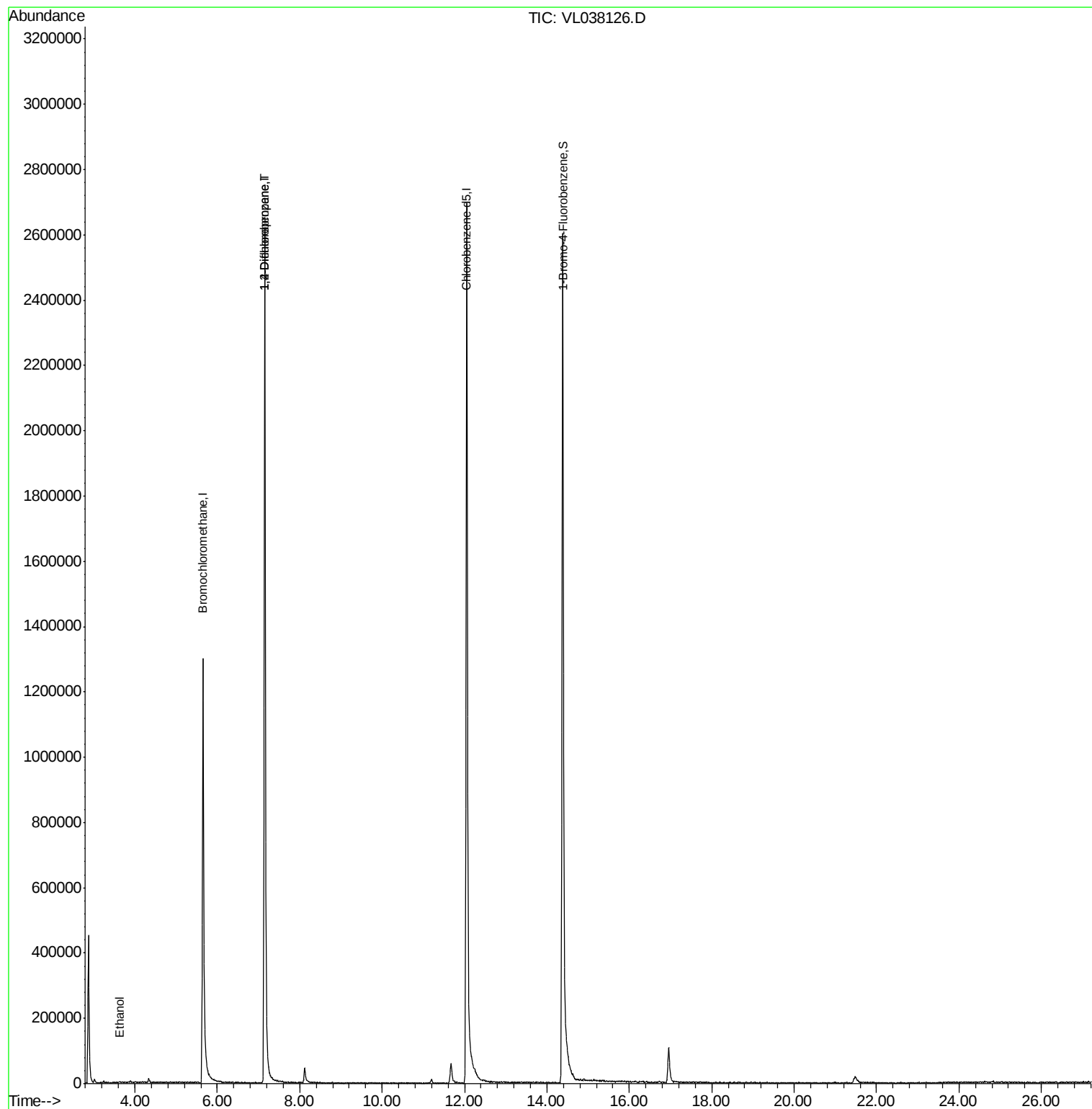
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 13) Ethanol             | 3.62 | 45   | 269      | 0.045 | ppbv # | 1      |
| 39) 1,2-Dichloropropane | 7.15 | 63   | 585653   | 6.683 | ppbv # | 27     |

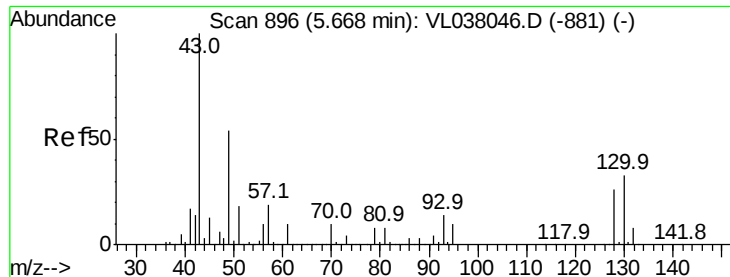
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VSTDCCC010EC

Acq: 24 Nov 2021 8:31

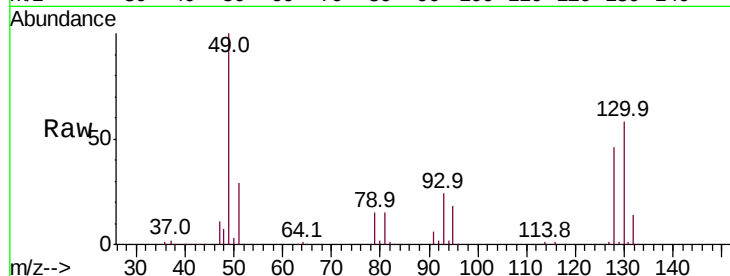
Tot Ion: 49 Resp: 792207

Ion Ratio Lower Upper

49 100

128 50.3 26.5 79.5

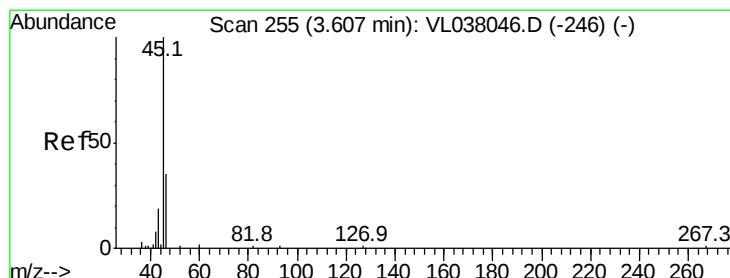
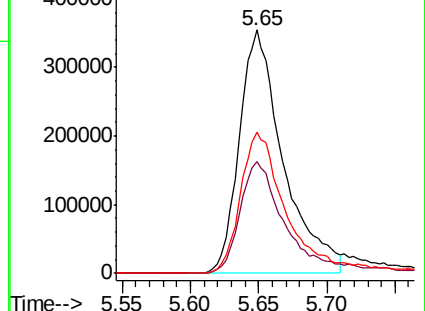
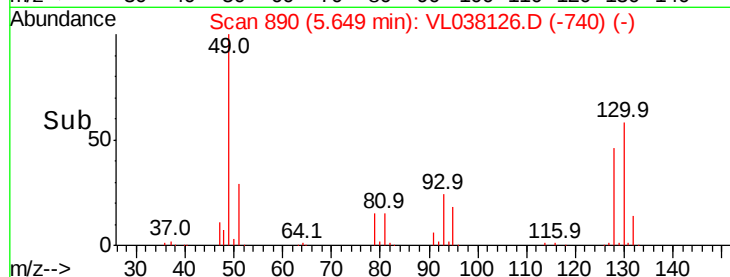
130 64.9 32.5 97.4



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



#13

Ethanol

Concen: 0.045 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.02 min

Lab File: VL038126.D

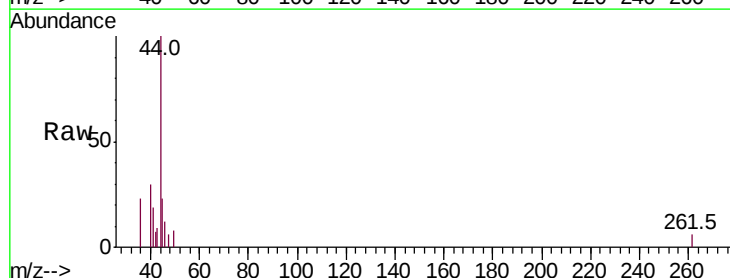
Acq: 24 Nov 2021 8:31

Tgt Ion: 45 Resp: 269

Ion Ratio Lower Upper

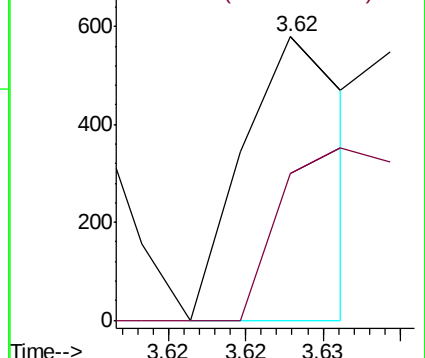
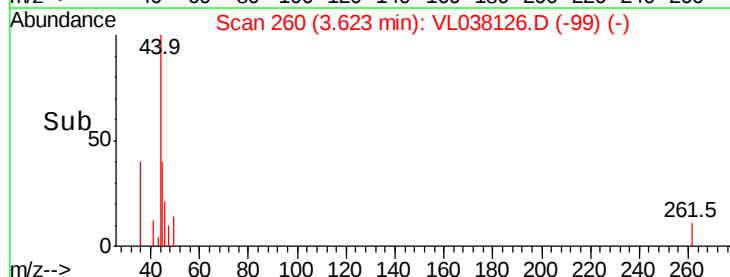
45 100

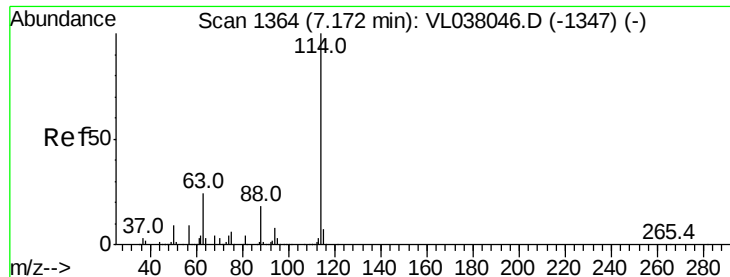
46 191.8 17.6 70.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Nov 2021 8:31 VSTDCCC010EC

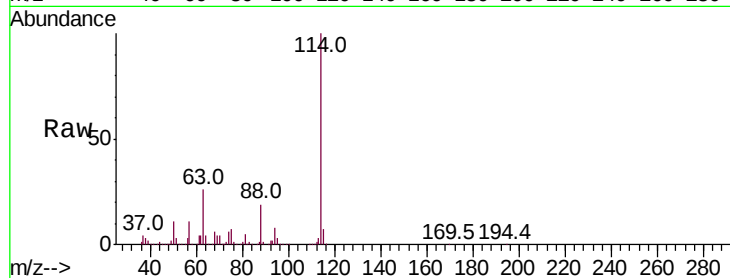
Tot Ion:114 Resp: 2290216

Ion Ratio Lower Upper

114 100

63 26.7 19.7 29.5

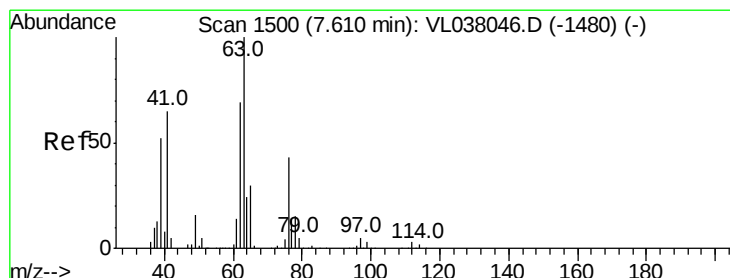
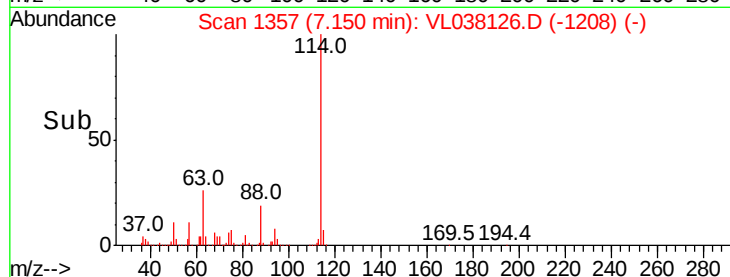
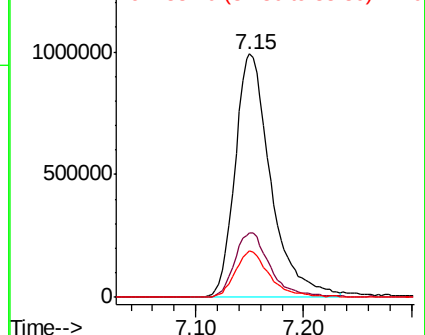
88 18.8 14.4 21.6



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



#39

1,2-Dichloropropane

Concen: 6.683 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.46 min

Lab File: VL038126.D

Acq: 24 Nov 2021 8:31

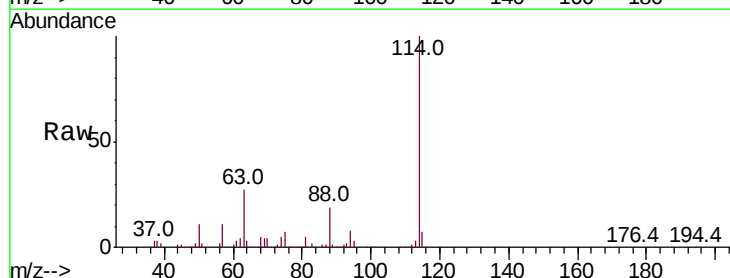
Tgt Ion: 63 Resp: 585653

Ion Ratio Lower Upper

63 100

41 0.0 52.3 78.5#

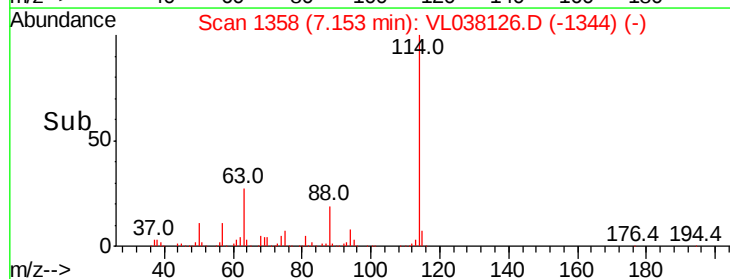
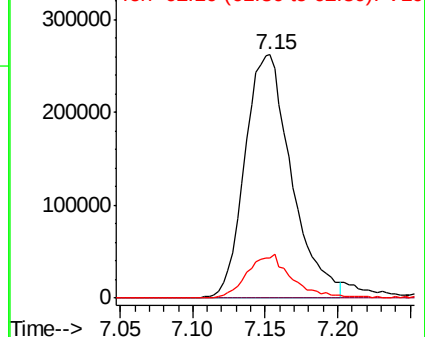
62 16.3 55.1 82.7#

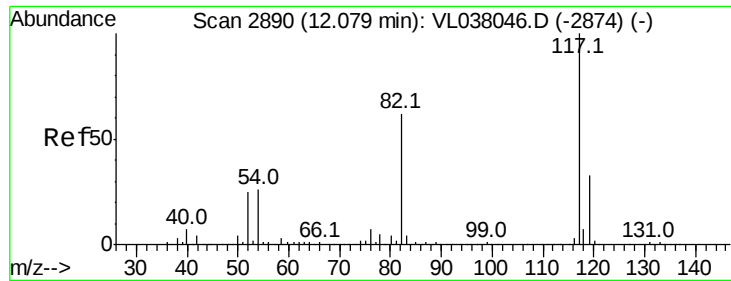


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

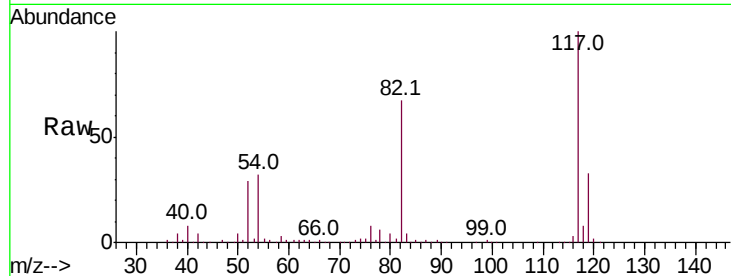




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.05 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
VSTDCCC010EC  
Acq: 24 Nov 2021 8:31

Tot Ion: 117 Resp: 1967664

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 73.5  | 52.8  | 79.2  |
| 119 | 34.5  | 26.8  | 40.2  |

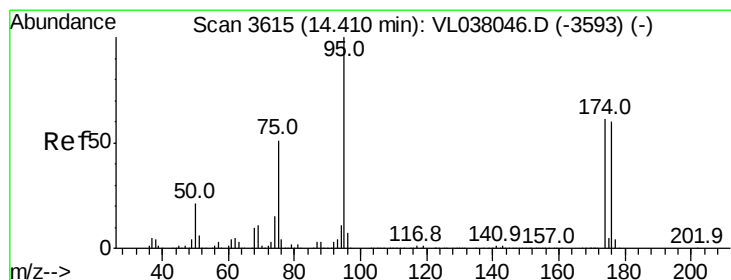
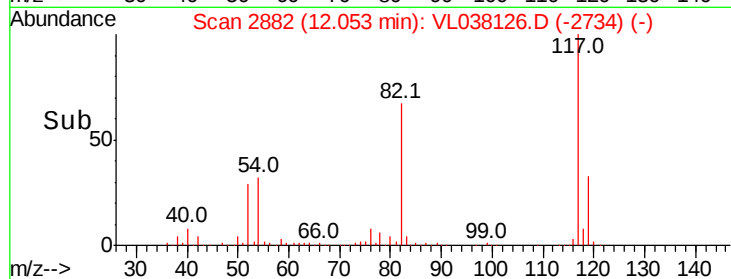
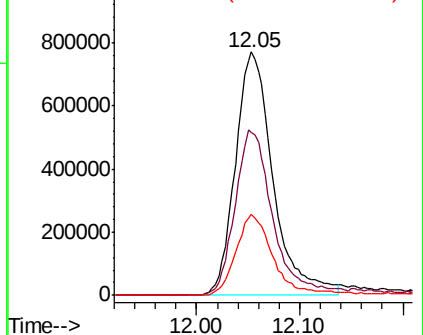


Abundance

Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

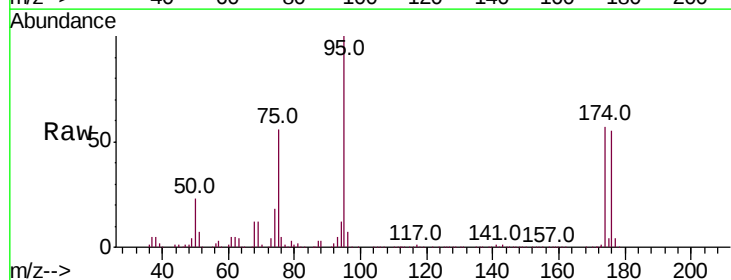
Ion 119.10 (118.80 to 119.80): V



#68  
1-Bromo-4-Fluorobenzene  
Concen: 11.124 ppbv  
RT: 14.38 min Scan# 3607  
Delta R.T.: -0.03 min  
Lab File: VL038126.D  
Acq: 24 Nov 2021 8:31

Tgt Ion: 95 Resp: 1578858

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 62.4  | 53.1  | 79.7  |
| 175 | 4.4   | 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

