

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\  
 Data File : VL035624.D  
 Acq On : 15 Sep 2020 7:57  
 Operator : SY/AP  
 Sample : VIBLK  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VIBLK

Quant Time: Sep 15 08:49:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Sep 14 15:19:50 2020  
 QLast Update : Mon Sep 14 15:19:50 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 892386   | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 3802256  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 3845906  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2796231  | 10.24    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.40% |

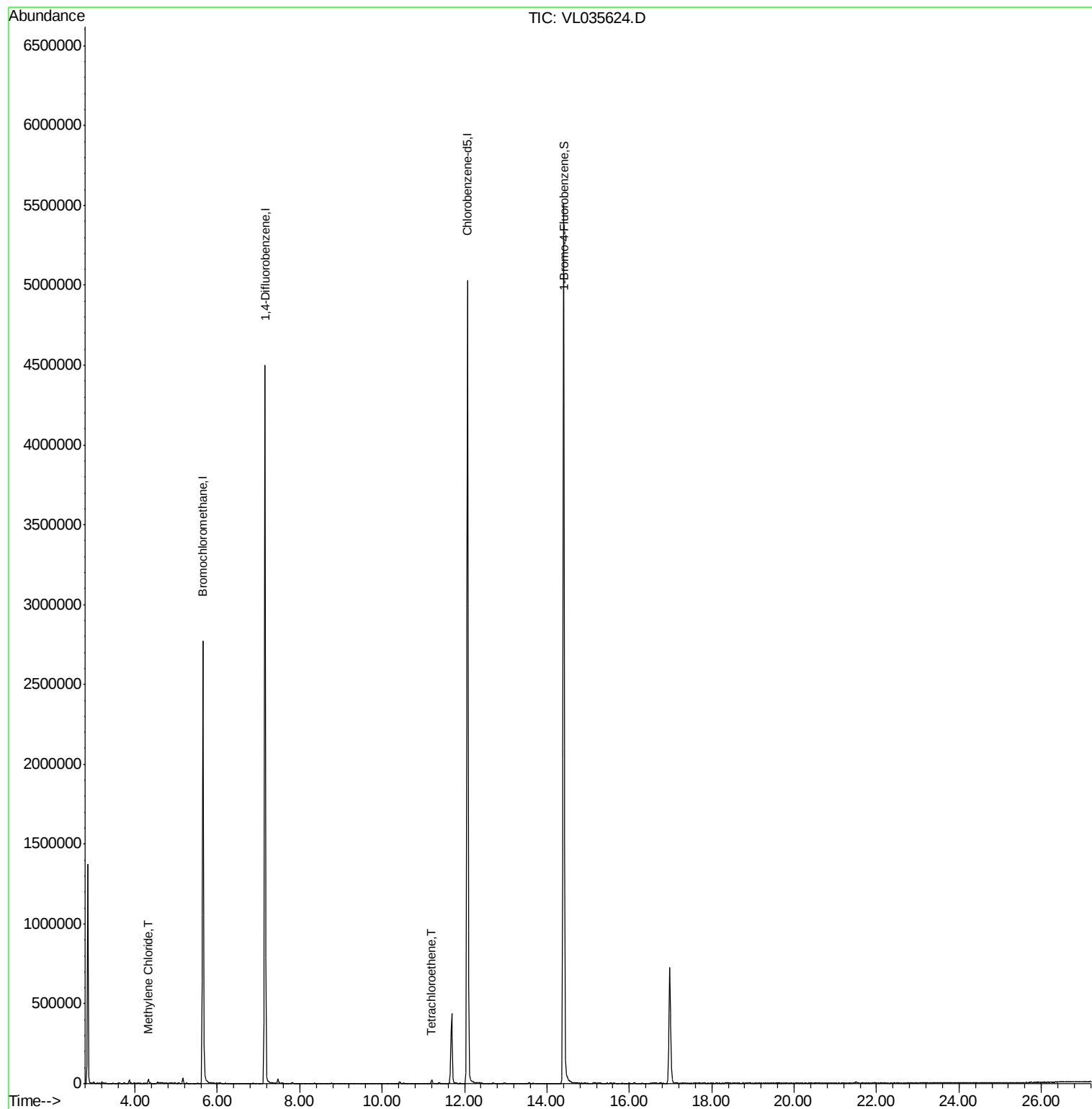
| Target Compounds       | R.T.  | QIon | Response | Conc  | Units | Ovalue |
|------------------------|-------|------|----------|-------|-------|--------|
| 20) Methylene Chloride | 4.33  | 84   | 13189    | 0.180 | ppbv  | # 90   |
| 52) Tetrachloroethene  | 11.21 | 164  | 5605     | 0.039 | ppbv  | 96     |

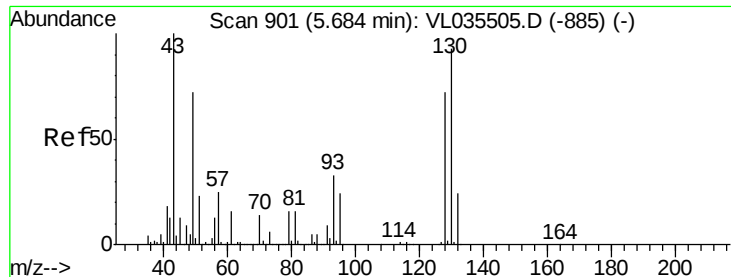
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091420\  
Data File : VL035624.D  
Acq On : 15 Sep 2020 7:57  
Operator : SY/AP  
Sample : VIBLK  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VIBLK

Quant Time: Sep 15 08:49:28 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Sep 14 15:19:50 2020  
QLast Update : Mon Sep 14 15:19:50 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL035624.D

Acq: 15 Sep 2020 7:57

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

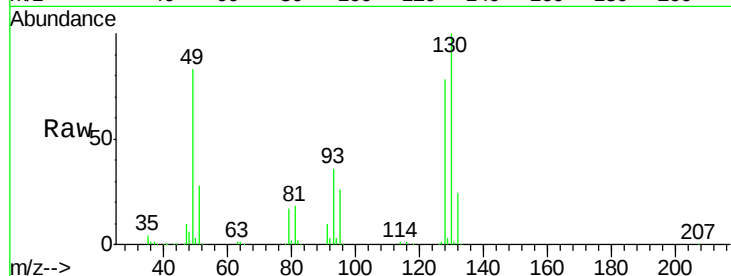
Tot Ion: 49 Resp: 892386

Ion Ratio Lower Upper

49 100

128 94.8 50.0 150.1

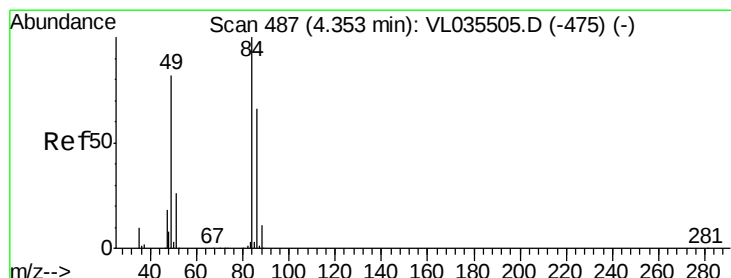
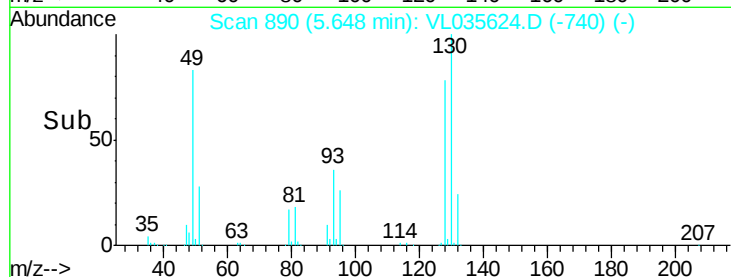
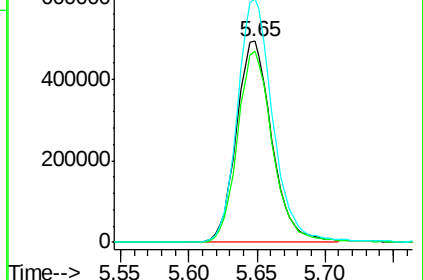
130 122.1 64.4 193.2



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



#20

Methylene Chloride

Concen: 0.180 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL035624.D

Acq: 15 Sep 2020 7:57

Tgt Ion: 84 Resp: 13189

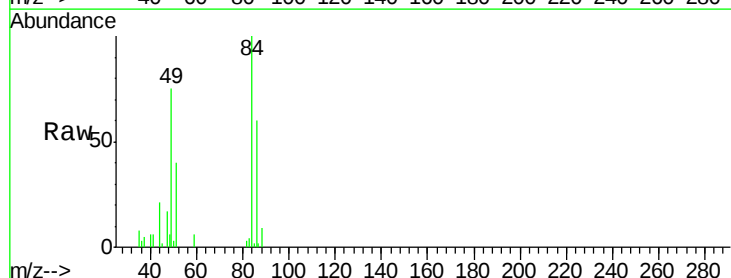
Ion Ratio Lower Upper

84 100

49 75.5 65.4 98.0

51 39.9 21.5 32.3#

86 60.2 52.9 79.3

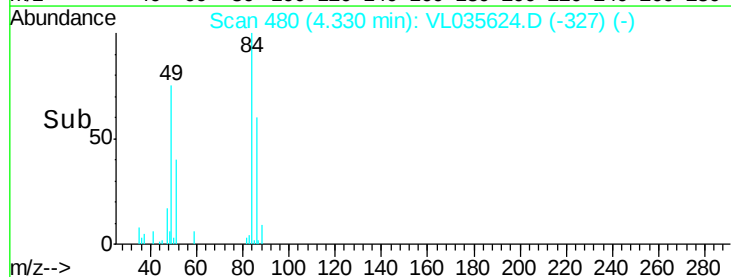
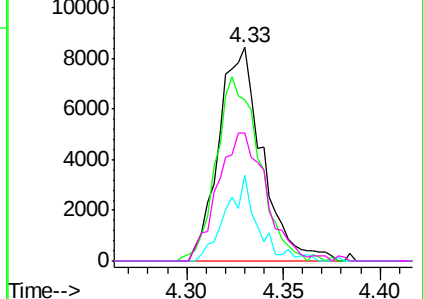


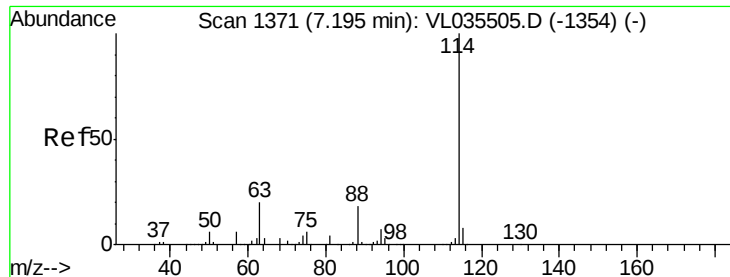
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

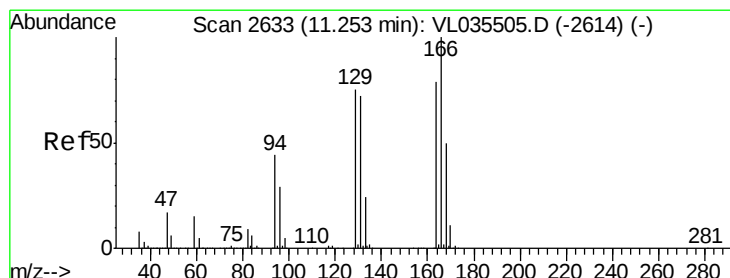
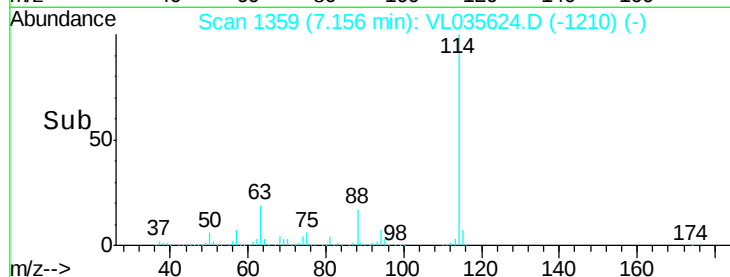
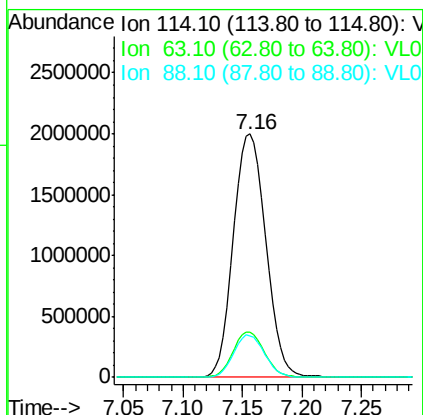
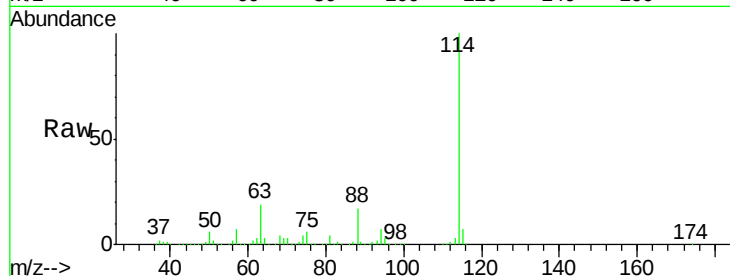




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.16 min Scan# 1359  
 Delta R.T. -0.02 min  
 Lab File: VL035624.D  
 Acq: 15 Sep 2020 7:57

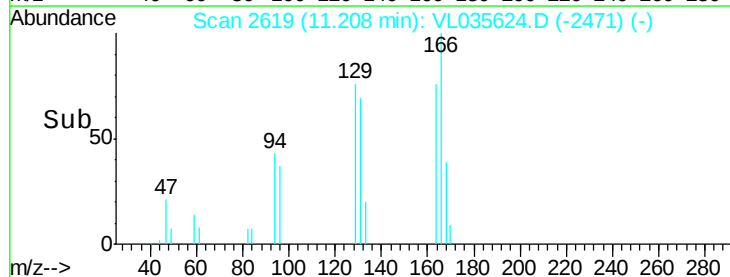
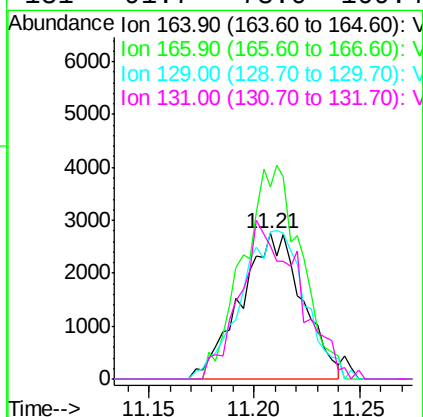
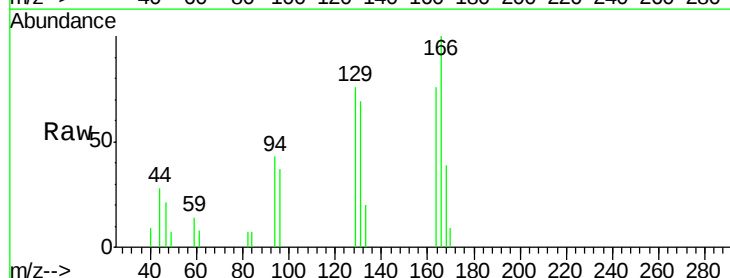
Instrument :  
 MSVOA\_L  
 ClientSampled :  
 VIBLK

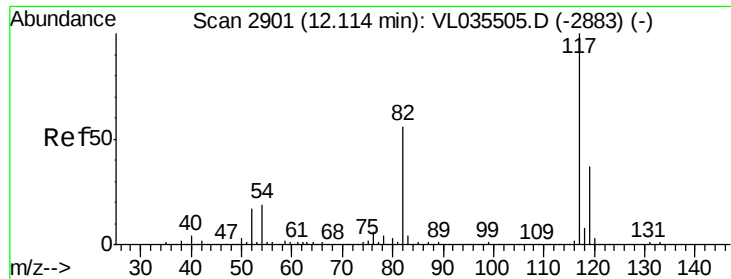
Tot Ion:114 Resp: 3802256  
 Ion Ratio Lower Upper  
 114 100  
 63 18.1 14.7 22.1  
 88 16.6 13.4 20.2



#52  
 Tetrachloroethene  
 Concen: 0.039 ppbv  
 RT: 11.21 min Scan# 2619  
 Delta R.T. -0.02 min  
 Lab File: VL035624.D  
 Acq: 15 Sep 2020 7:57

Tgt Ion:164 Resp: 5605  
 Ion Ratio Lower Upper  
 164 100  
 166 132.2 100.9 151.3  
 129 100.8 75.3 112.9  
 131 91.7 73.0 109.4

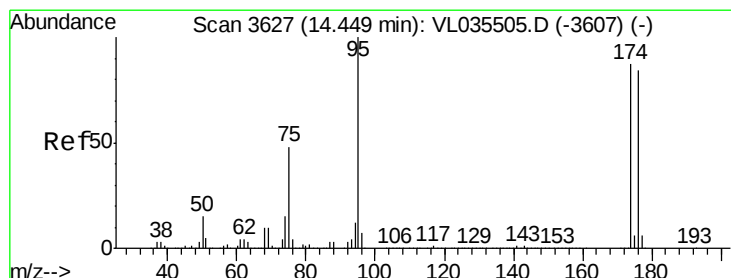
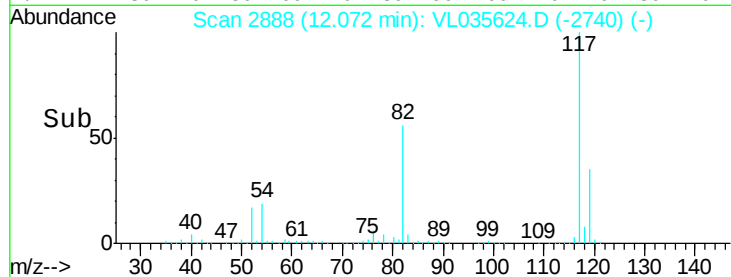
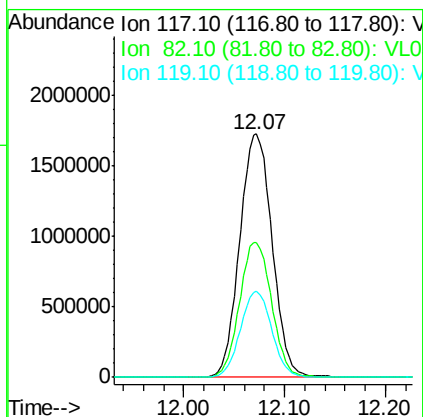
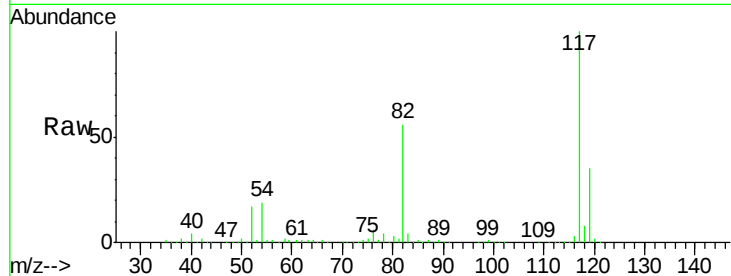




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.07 min Scan# 2888  
Delta R.T. -0.02 min  
Lab File: VL035624.D  
Acq: 15 Sep 2020 7:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
VIBLK

Tot Ion:117 Resp: 3845906  
Ion Ratio Lower Upper  
117 100  
82 55.1 41.6 62.4  
119 34.5 29.3 43.9



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.238 ppbv  
RT: 14.41 min Scan# 3614  
Delta R.T. -0.02 min  
Lab File: VL035624.D  
Acq: 15 Sep 2020 7:57

Tgt Ion: 95 Resp: 2796231  
Ion Ratio Lower Upper  
95 100  
174 82.0 69.6 104.4  
175 5.9 5.1 7.7

