

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050820\  
 Data File : VX016111.D  
 Acq On : 08 May 2020 11:07  
 Operator : JC/SP  
 Sample : VX0508WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 09 01:39:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Apr 30 12:42:44 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 4.98  | 128  | 52663    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.83  | 114  | 295528   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.10 | 117  | 262978   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.03   | 65    | 118234   | 29.21    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 97.37%  |
| 60) 4-Bromofluorobenzene  | 11.12  | 95    | 123348   | 27.97    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 93.23%  |
| 63) Toluene-d8            | 8.70   | 98    | 350891   | 31.10    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 103.67% |

## Target Compounds

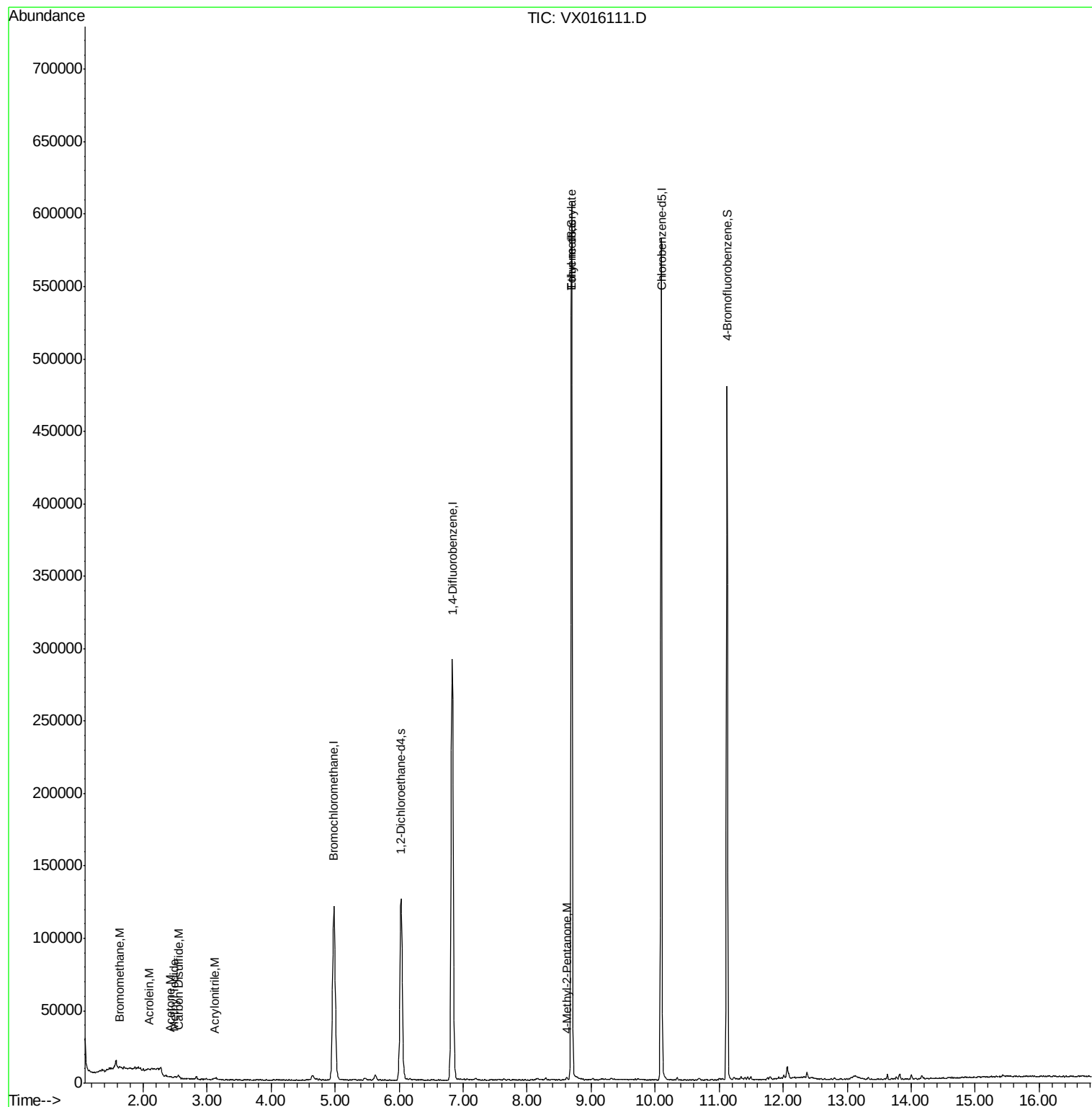
|                          |      |     |      |              | Ovalue |
|--------------------------|------|-----|------|--------------|--------|
| 5) Bromomethane          | 1.64 | 94  | 814  | 0.329 ug/l   | 99     |
| 11) Methyl Iodide        | 2.50 | 142 | 1139 | 0.277 ug/l   | 97     |
| 13) Acrolein             | 2.09 | 56  | 107  | 0.254 ug/l   | 88     |
| 14) Acrylonitrile        | 3.11 | 53  | 800  | 0.412 ug/l   | 88     |
| 15) Acetone              | 2.42 | 58  | 205  | 0.399 ug/l # | 26     |
| 16) Carbon Disulfide     | 2.55 | 76  | 2887 | 0.315 ug/l # | 92     |
| 51) Ethyl methacrylate   | 8.70 | 69  | 1396 | 0.248 ug/l   | 89     |
| 58) 4-Methyl-2-Pentanone | 8.62 | 43  | 1045 | 0.202 ug/l   | 94     |

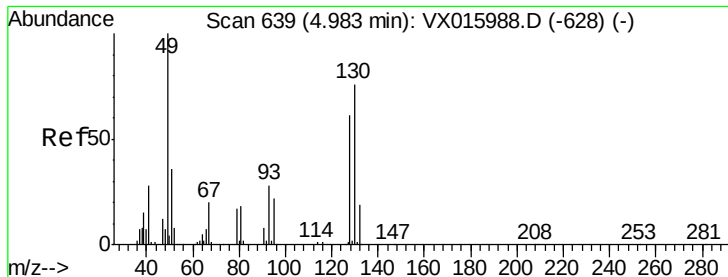
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX050820\  
Data File : VX016111.D  
Acq On : 08 May 2020 11:07  
Operator : JC/SP  
Sample : VX0508WBL01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: May 09 01:39:38 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Apr 30 12:42:44 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. 0.00 min

Lab File: VX016111.D

Acq: 08 May 2020 11:07

Instrument :

MSVOA\_X

ClientSampleId :

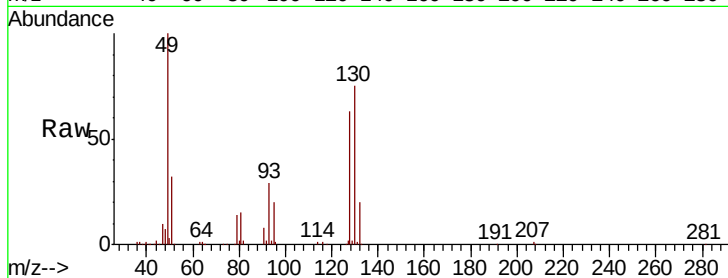
Tot Ion:128 Resp: 52663

Ion Ratio Lower Upper

128 100

49 164.0 0.0 418.5

130 125.6 0.0 326.3

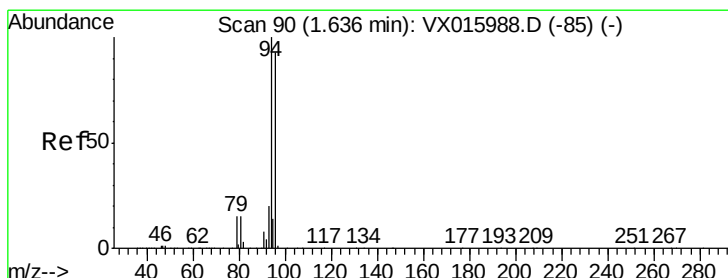
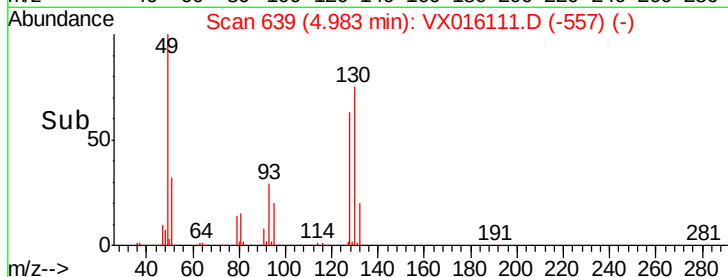
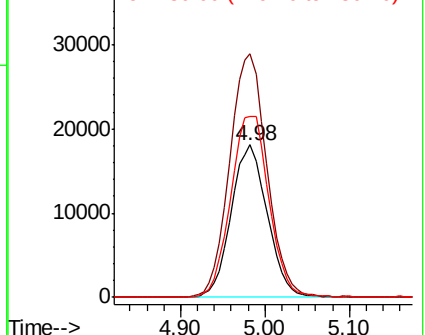


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.329 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX016111.D

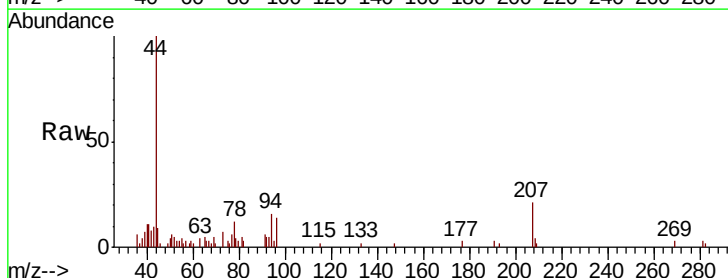
Acq: 08 May 2020 11:07

Tgt Ion: 94 Resp: 814

Ion Ratio Lower Upper

94 100

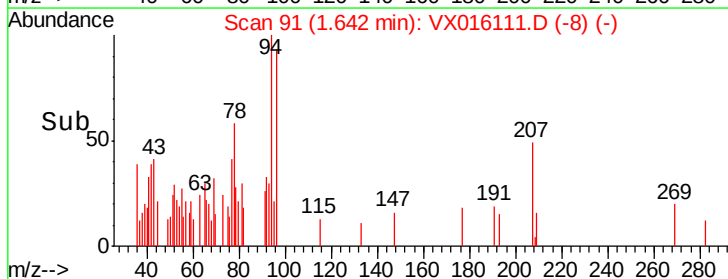
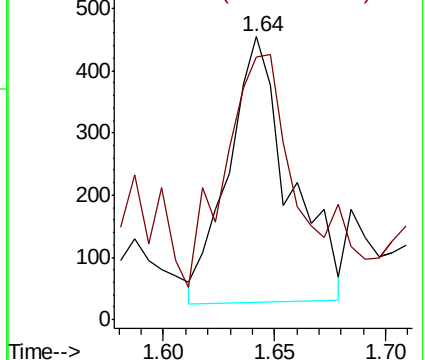
96 93.9 74.2 111.2

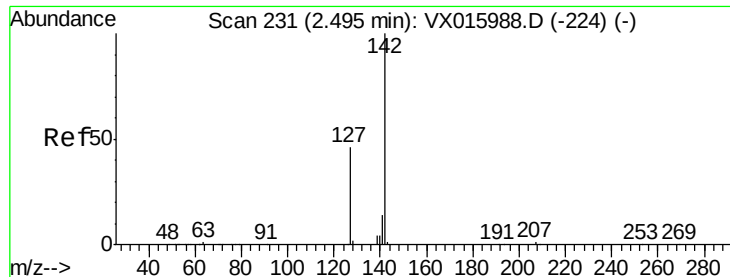


Abundance

Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

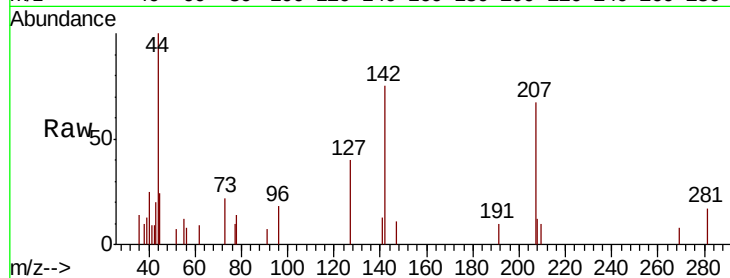




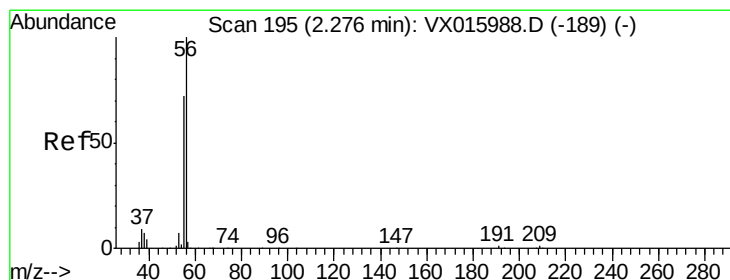
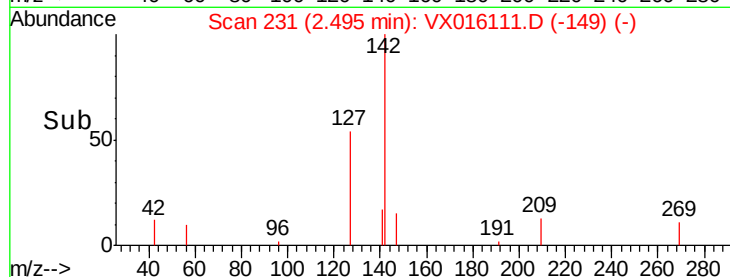
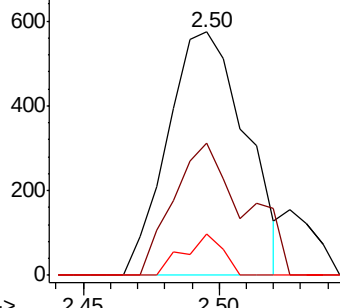
#11  
Methvl Iodide  
Concen: 0.277 ug/l  
RT: 2.50 min Scan# 231  
Delta R.T. 0.00 min  
Lab File: VX016111.D  
Acq: 08 May 2020 11:07

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:142 Resp: 1139  
Ion Ratio Lower Upper  
142 100  
127 45.5 22.8 68.4  
141 19.4 7.0 21.1

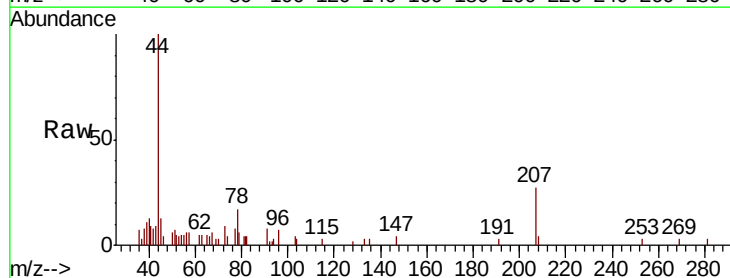


Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 141.00 (140.70 to 141.70): V

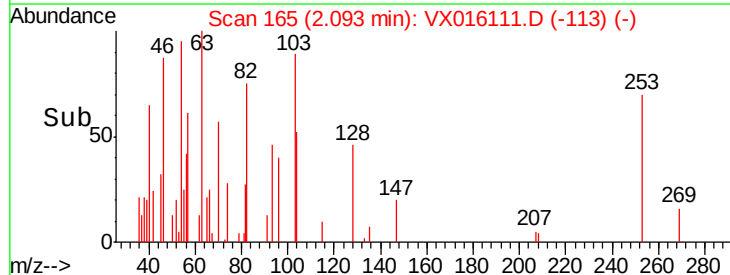
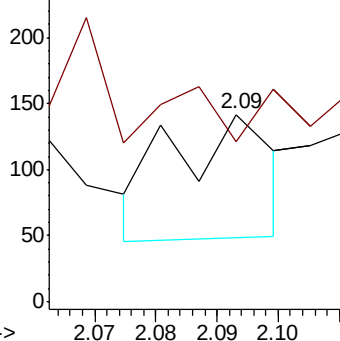


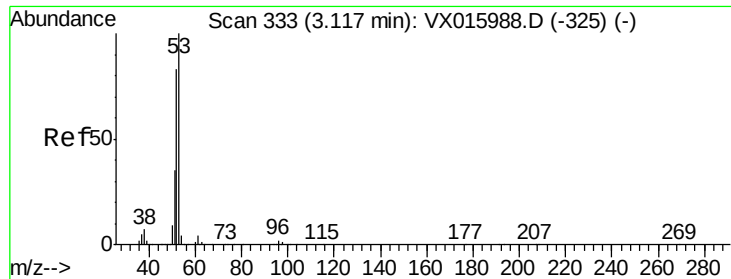
#13  
Acrolein  
Concen: 0.254 ug/l  
RT: 2.09 min Scan# 165  
Delta R.T. -0.18 min  
Lab File: VX016111.D  
Acq: 08 May 2020 11:07

Tgt Ion: 56 Resp: 107  
Ion Ratio Lower Upper  
56 100  
55 80.4 56.2 84.4



Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 55.00 (54.70 to 55.70): VX0





#14

Acrylonitrile

Concen: 0.412 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.01 min

Lab File: VX016111.D

Acq: 08 May 2020 11:07

Instrument :

MSVOA\_X

ClientSampled :

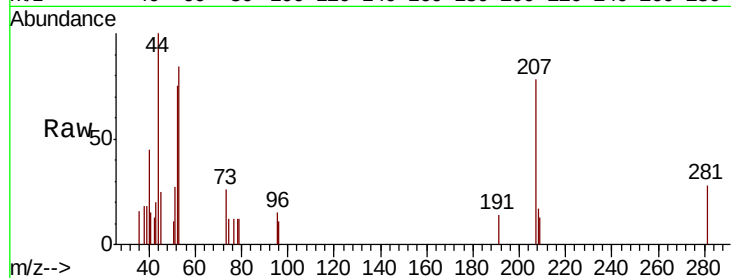
Tot Ion: 53 Resp: 800

Ion Ratio Lower Upper

53 100

52 95.8 41.2 123.6

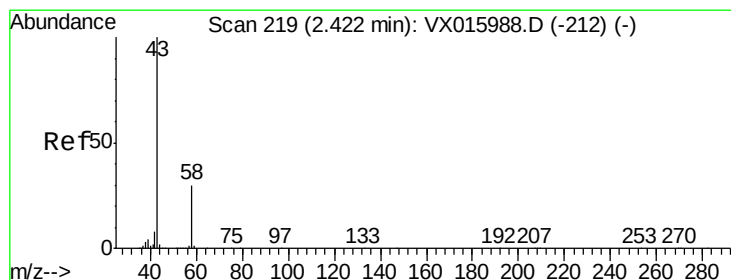
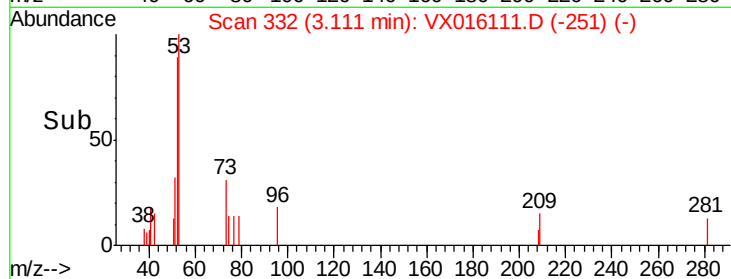
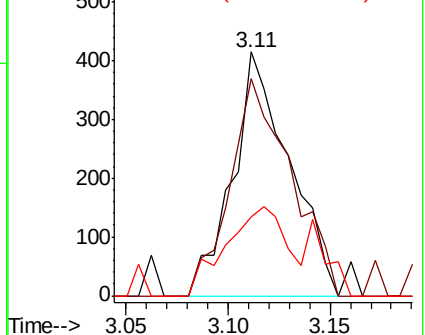
51 39.3 17.8 53.5



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#15

Acetone

Concen: 0.399 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016111.D

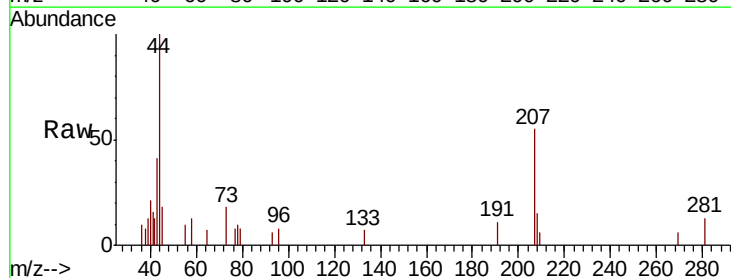
Acq: 08 May 2020 11:07

Tgt Ion: 58 Resp: 205

Ion Ratio Lower Upper

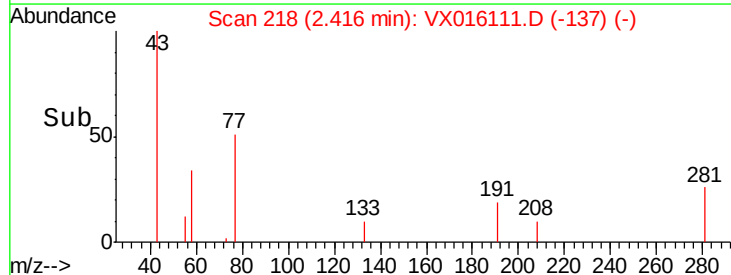
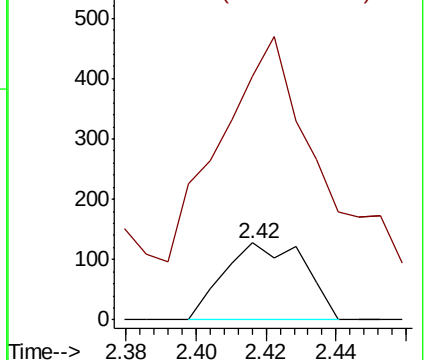
58 100

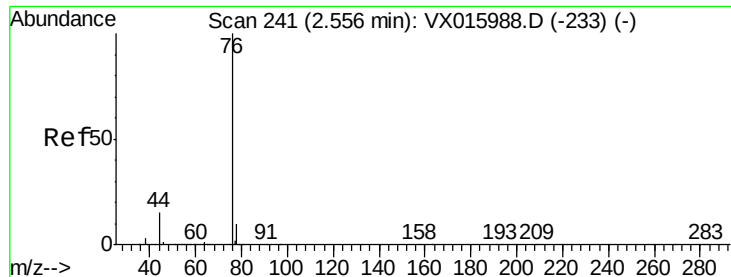
43 175.8 264.2 396.2#



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

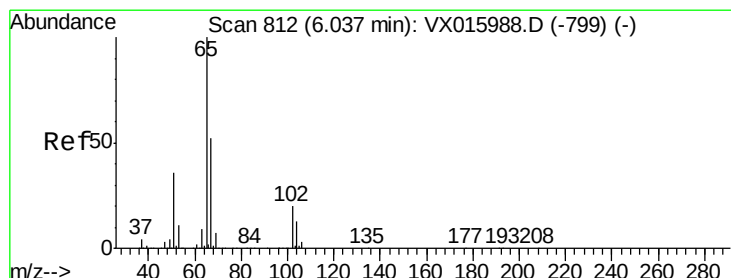
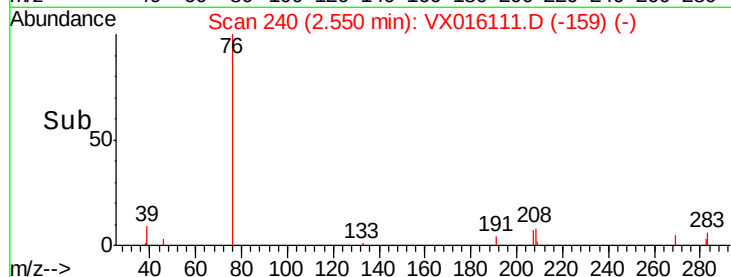
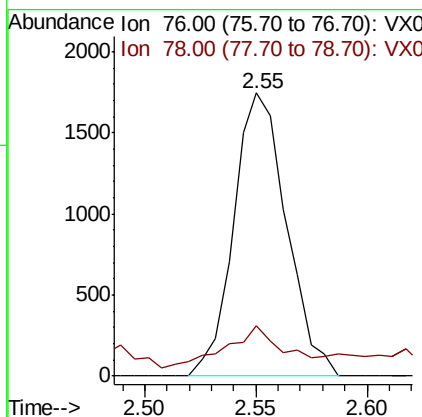
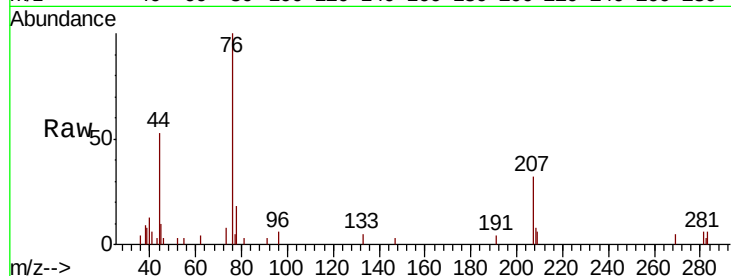




#16  
Carbon Disulfide  
Concen: 0.315 ug/l  
RT: 2.55 min Scan# 240  
Delta R.T. -0.01 min  
Lab File: VX016111.D  
Acq: 08 May 2020 11:07

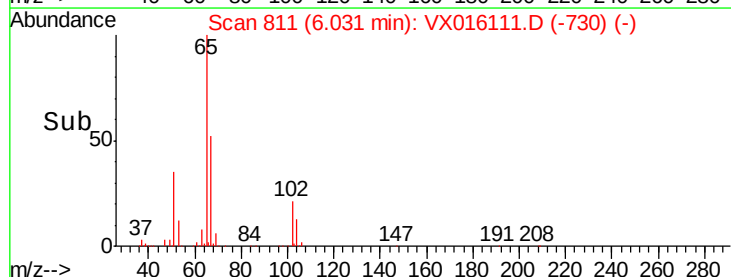
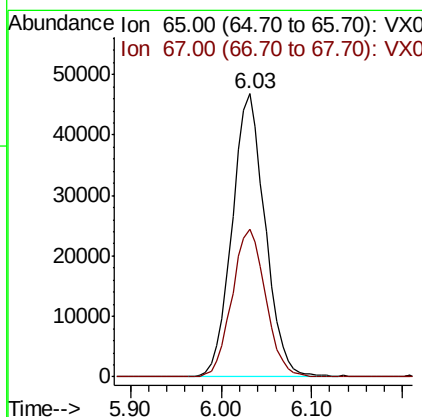
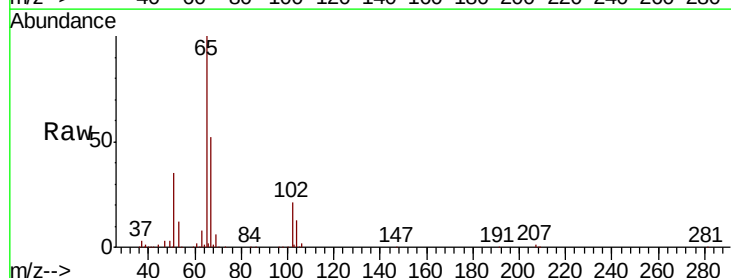
Instrument :  
MSVOA\_X  
ClientSampleId :

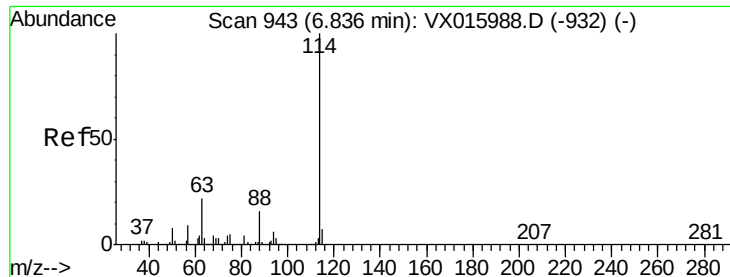
Tot Ion: 76 Resp: 2887  
Ion Ratio Lower Upper  
76 100  
78 12.7 7.7 11.5#



#27  
1,2-Dichloroethane-d4  
Concen: 29.213 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. -0.01 min  
Lab File: VX016111.D  
Acq: 08 May 2020 11:07

Tgt Ion: 65 Resp: 118234  
Ion Ratio Lower Upper  
65 100  
67 53.3 41.0 61.4

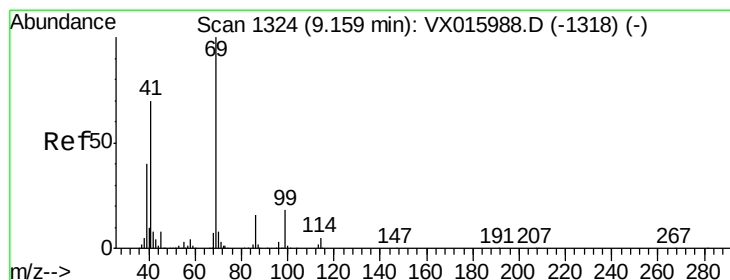
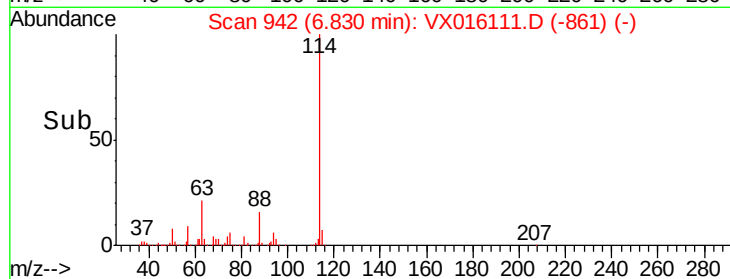
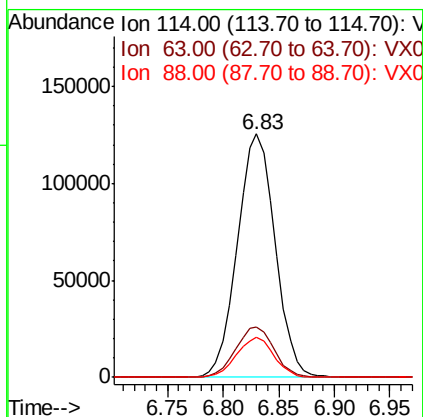
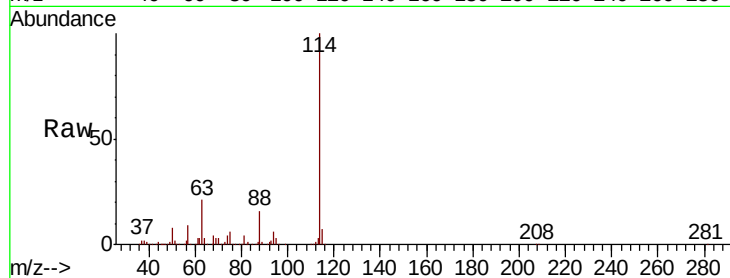




#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.83 min Scan# 942  
 Delta R.T. -0.01 min  
 Lab File: VX016111.D  
 Acq: 08 May 2020 11:07

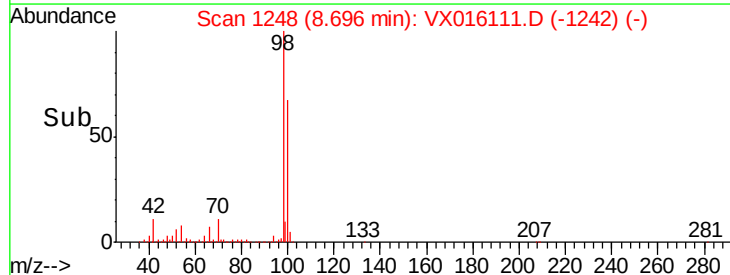
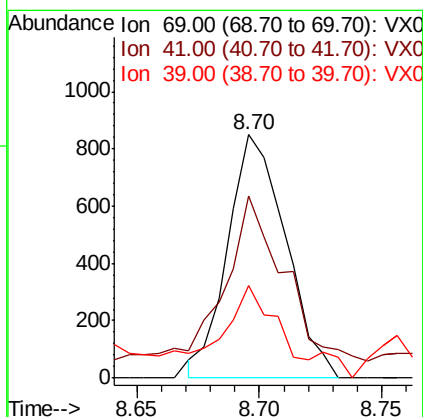
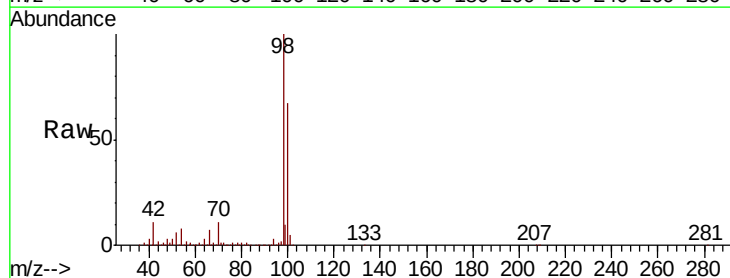
Instrument :  
 MSVOA\_X  
 ClientSampleId :

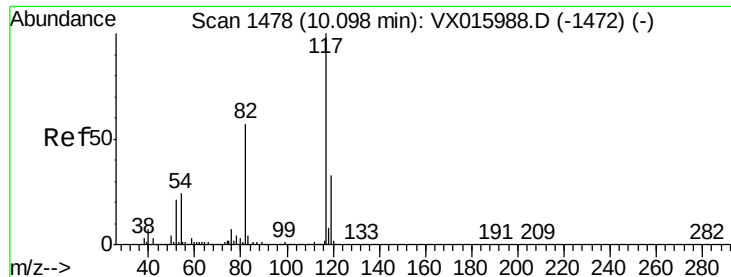
Tot Ion:114 Resp: 295528  
 Ion Ratio Lower Upper  
 114 100  
 63 21.1 17.1 25.7  
 88 16.3 13.0 19.4



#51  
 Ethyl methacrylate  
 Concen: 0.248 ug/l  
 RT: 8.70 min Scan# 1248  
 Delta R.T. -0.46 min  
 Lab File: VX016111.D  
 Acq: 08 May 2020 11:07

Tgt Ion: 69 Resp: 1396  
 Ion Ratio Lower Upper  
 69 100  
 41 63.6 34.8 104.4  
 39 29.4 19.8 59.4

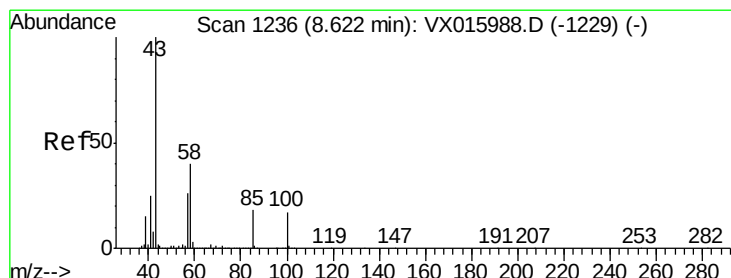
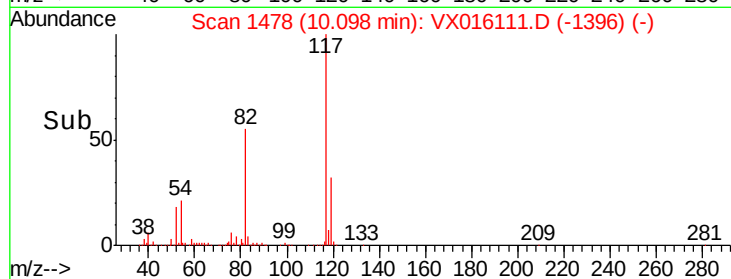
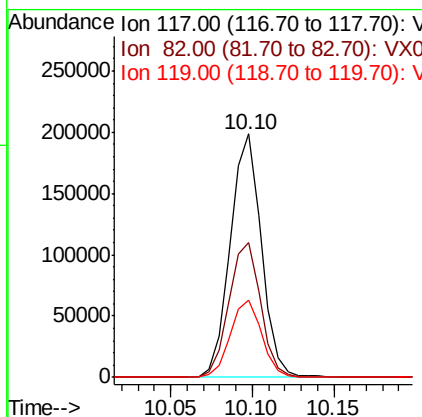
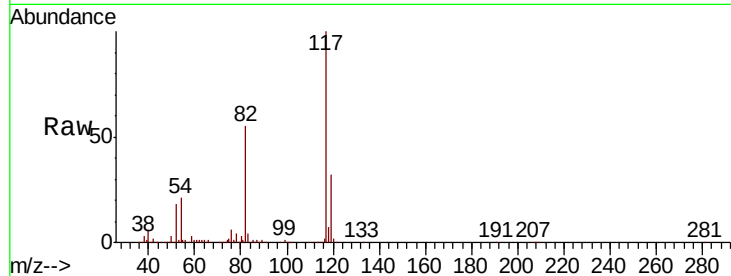




#57  
 Chlorobenzene-d5  
 Concen: 30.000 ug/l  
 RT: 10.10 min Scan# 1478  
 Delta R.T. 0.00 min  
 Lab File: VX016111.D  
 Acq: 08 May 2020 11:07

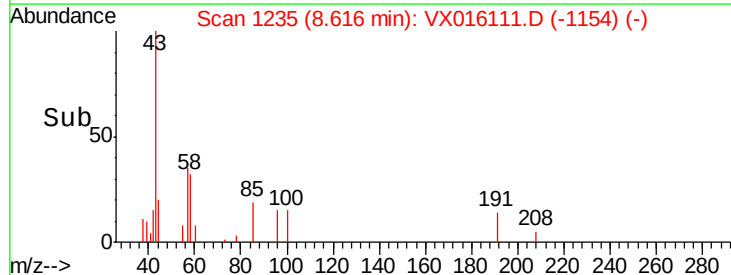
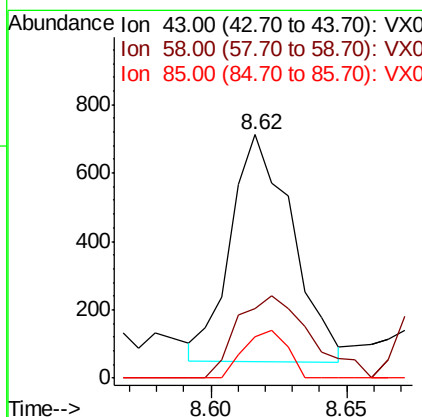
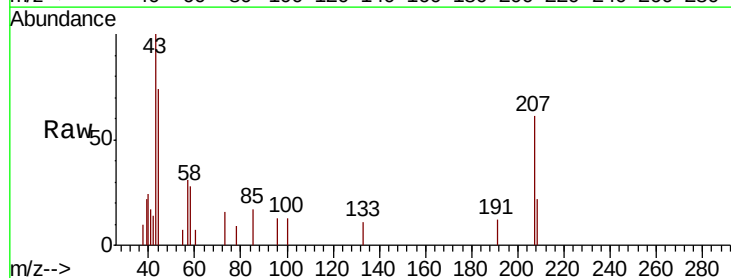
Instrument :  
 MSVOA\_X  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.3  | 45.1  | 67.7  |
| 119     | 32.2  | 25.6  | 38.4  |

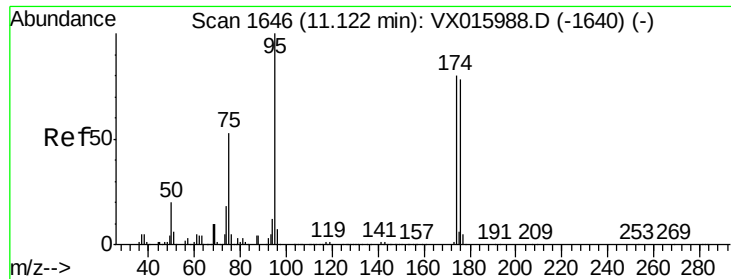


#58  
 4-Methyl-2-Pentanone  
 Concen: 0.202 ug/l  
 RT: 8.62 min Scan# 1235  
 Delta R.T. -0.01 min  
 Lab File: VX016111.D  
 Acq: 08 May 2020 11:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 42.9  | 31.8  | 47.6  |
| 85      | 14.7  | 14.5  | 21.7  |



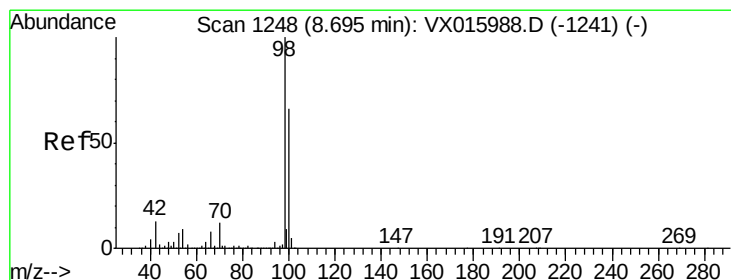
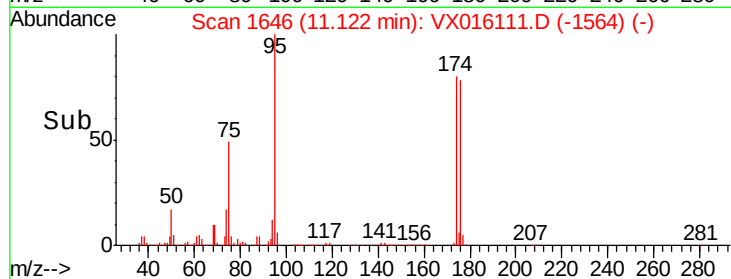
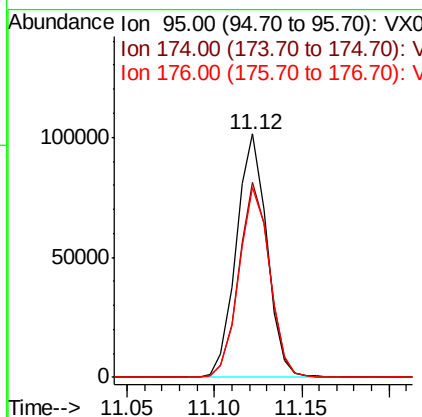
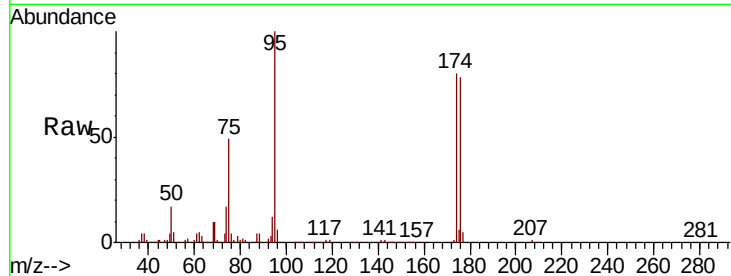




#60  
4-Bromofluorobenzene  
Concen: 27.970 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. 0.00 min  
Lab File: VX016111.D  
Acq: 08 May 2020 11:07

Instrument :  
MSVOA\_X  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 80.5  | 64.8  | 97.2  |
| 176     | 79.2  | 62.4  | 93.6  |



#63  
Toluene-d8  
Concen: 31.104 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. 0.00 min  
Lab File: VX016111.D  
Acq: 08 May 2020 11:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 65.9  | 52.5  | 78.7  |

