

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091120\  
 Data File : VX018357.D  
 Acq On : 11 Sep 2020 13:17  
 Operator : JC/SP  
 Sample : L3955-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Sep 12 05:44:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 04 12:13:41 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 4.98  | 128  | 78527    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.84  | 114  | 399551   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.10 | 117  | 368550   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.03   | 65    | 189293   | 30.55    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 101.83% |
| 60) 4-Bromofluorobenzene  | 11.12  | 95    | 173449   | 27.15    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 90.50%  |
| 63) Toluene-d8            | 8.70   | 98    | 482173   | 29.68    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 98.93%  |

## Target Compounds

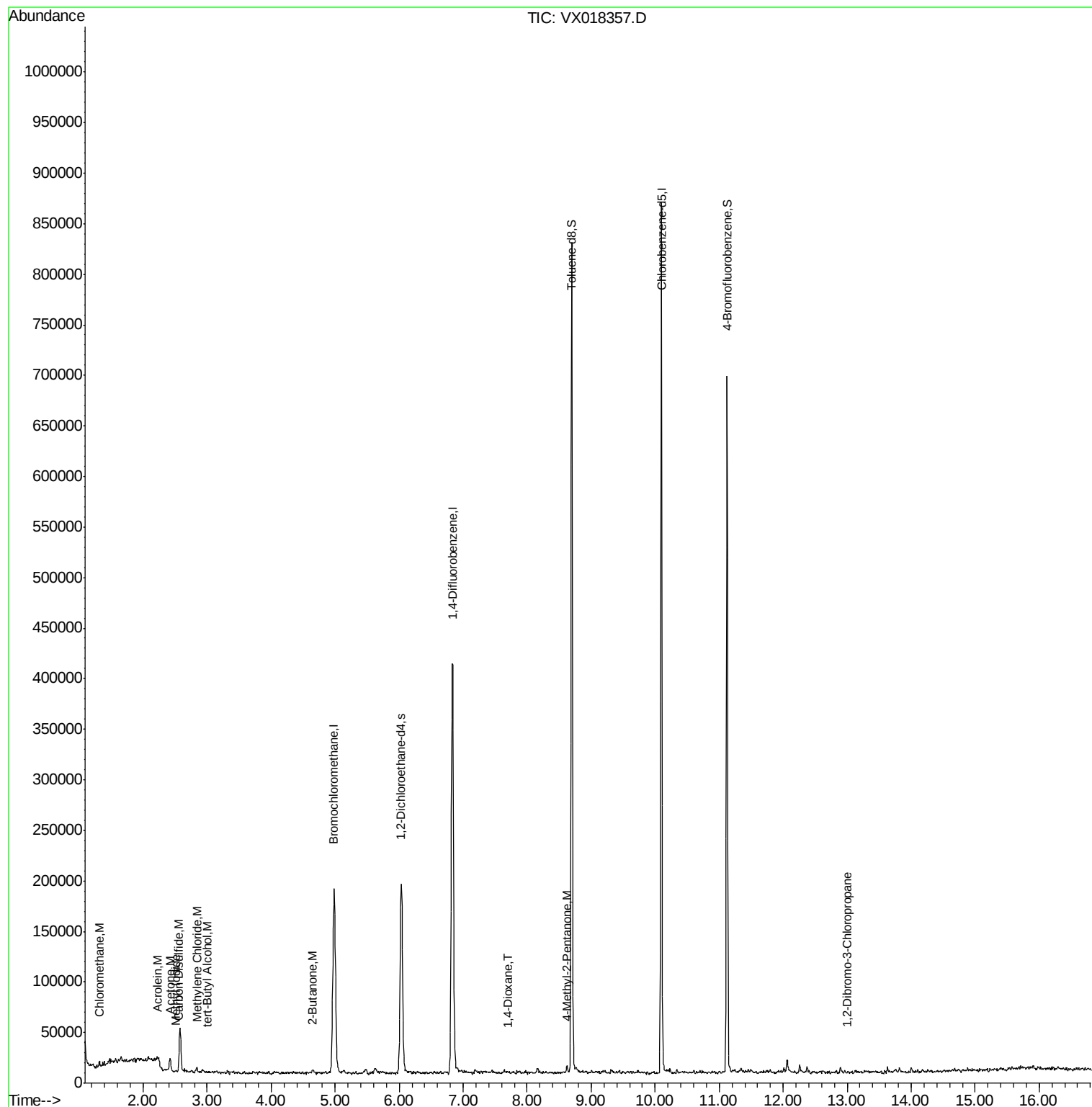
|                                |       |     |      |       | Ovalue    |
|--------------------------------|-------|-----|------|-------|-----------|
| 3) Chloromethane               | 1.31  | 50  | 2905 | 0.658 | ug/l 98   |
| 11) Methyl Iodide              | 2.51  | 142 | 1062 | 7.733 | ug/l # 31 |
| 13) Acrolein                   | 2.23  | 56  | 246  | 0.586 | ug/l 91   |
| 15) Acetone                    | 2.42  | 58  | 4926 | 7.690 | ug/l 75   |
| 16) Carbon Disulfide           | 2.55  | 76  | 2304 | 0.200 | ug/l # 87 |
| 18) Methylene Chloride         | 2.84  | 84  | 1976 | 0.426 | ug/l # 72 |
| 23) tert-Butyl Alcohol         | 3.01  | 59  | 292  | 0.286 | ug/l # 1  |
| 30) 2-Butanone                 | 4.64  | 43  | 823  | 0.246 | ug/l # 83 |
| 45) 1,4-Dioxane                | 7.71  | 88  | 233  | 2.606 | ug/l # 24 |
| 58) 4-Methyl-2-Pentanone       | 8.62  | 43  | 4401 | 0.694 | ug/l # 91 |
| 88) 1,2-Dibromo-3-Chloropropan | 12.99 | 75  | 468  | 0.272 | ug/l # 6  |

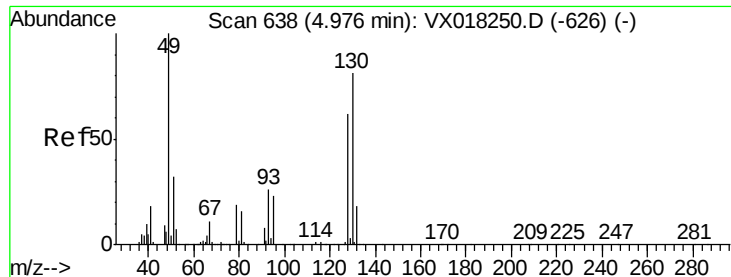
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091120\  
Data File : VX018357.D  
Acq On : 11 Sep 2020 13:17  
Operator : JC/SP  
Sample : L3955-02  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Sep 12 05:44:57 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 04 12:13:41 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. 0.01 min

Lab File: VX018357.D

Acq: 11 Sep 2020 13:17

Instrument :  
MSVOA\_X  
ClientSampled :

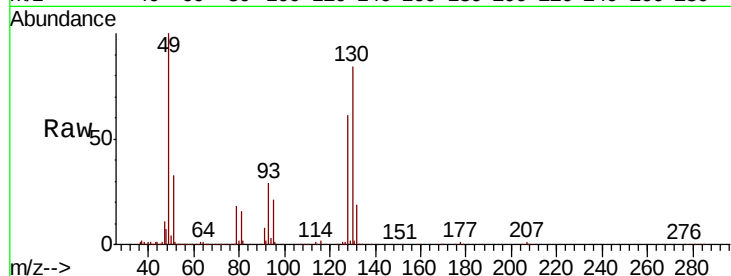
Tot Ion:128 Resp: 78527

Ion Ratio Lower Upper

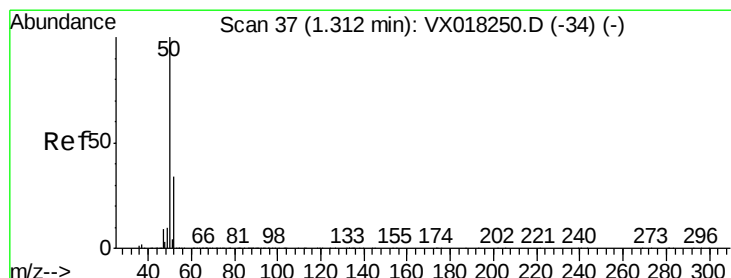
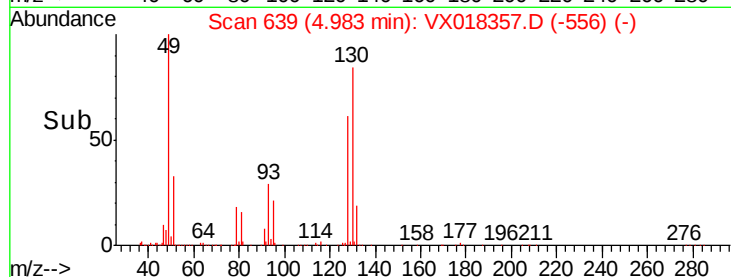
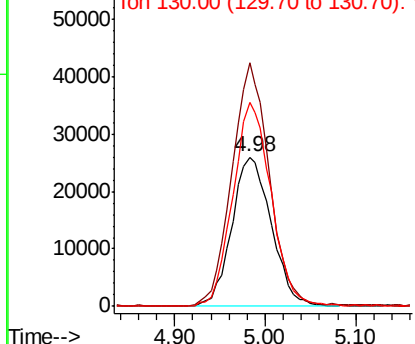
128 100

49 154.6 0.0 392.0

130 132.3 0.0 320.2



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



#3

Chloromethane

Concen: 0.658 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018357.D

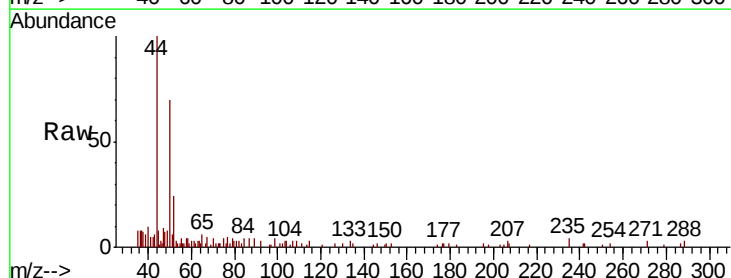
Acq: 11 Sep 2020 13:17

Tgt Ion: 50 Resp: 2905

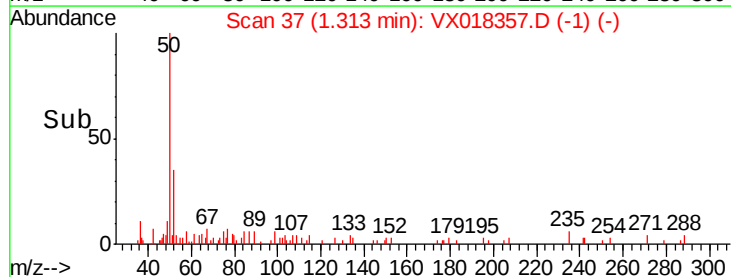
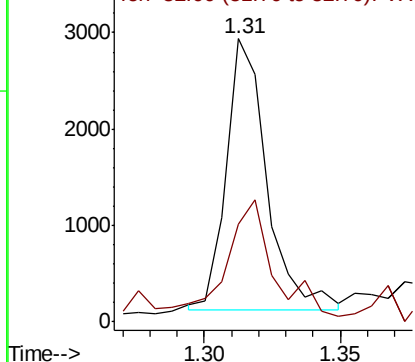
Ion Ratio Lower Upper

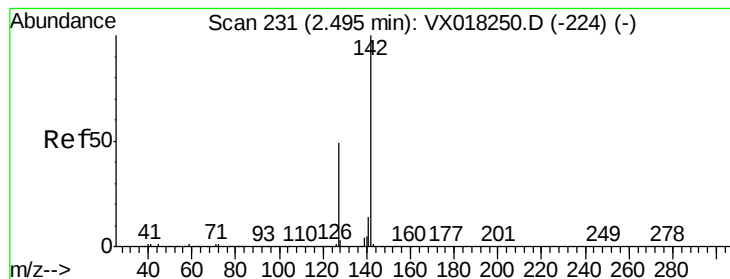
50 100

52 34.9 27.1 40.7



Abundance Ion 50.00 (49.70 to 50.70): VX0  
Ion 52.00 (51.70 to 52.70): VX0





#11

Methvl Iodide

Concen: 7.733 ug/l

RT: 2.51 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX018357.D

Acq: 11 Sep 2020 13:17

Instrument :

MSVOA\_X

ClientSampled :

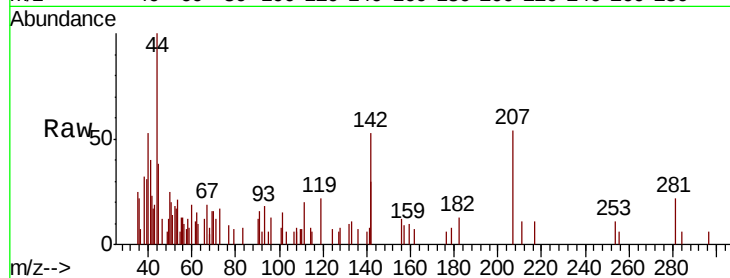
Tot Ion:142 Resp: 1062

Ion Ratio Lower Upper

142 100

127 0.0 24.6 74.0#

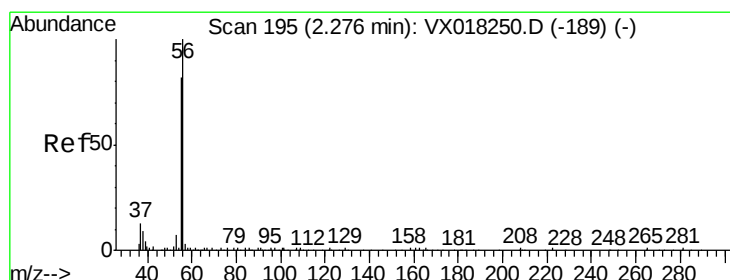
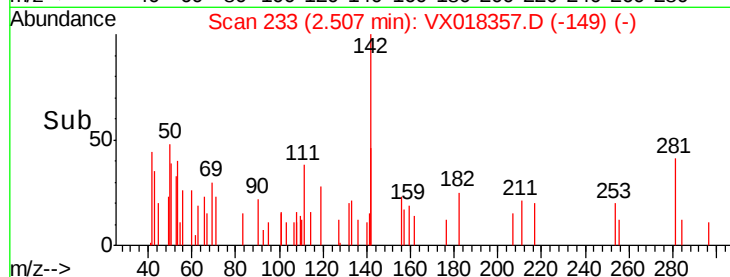
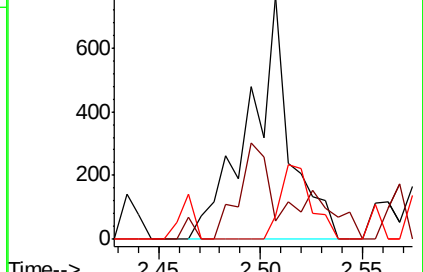
141 36.8 7.0 21.0#



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: 0.586 ug/l

RT: 2.23 min Scan# 187

Delta R.T. -0.05 min

Lab File: VX018357.D

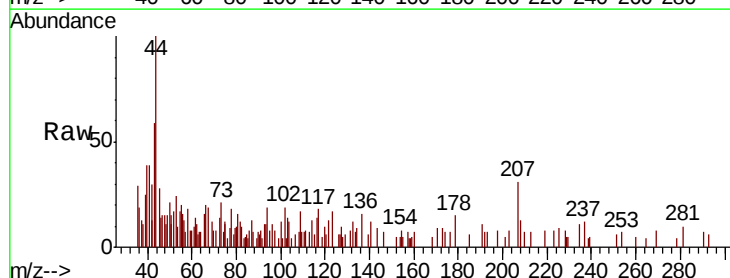
Acq: 11 Sep 2020 13:17

Tgt Ion: 56 Resp: 246

Ion Ratio Lower Upper

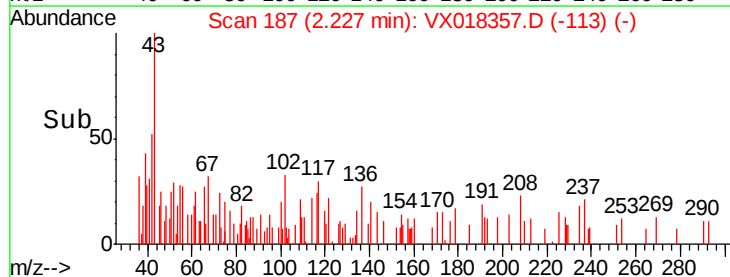
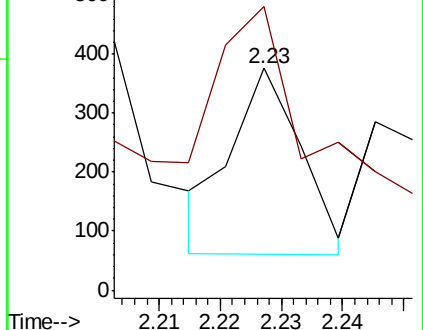
56 100

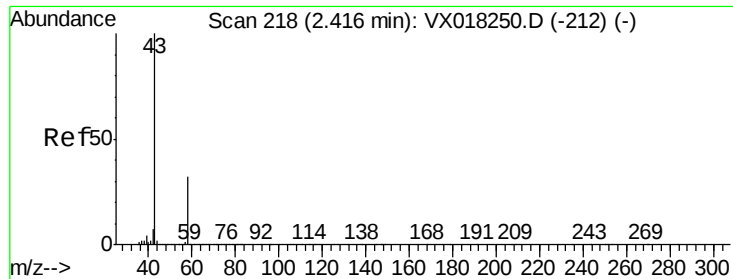
55 82.5 59.7 89.5



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

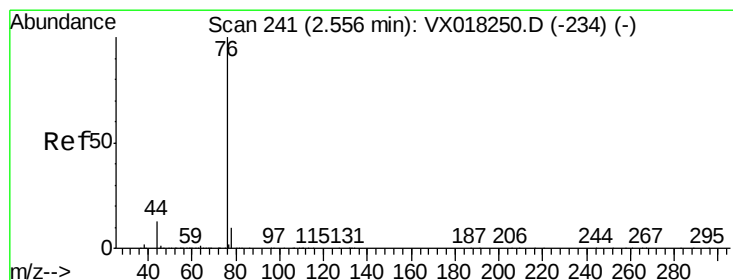
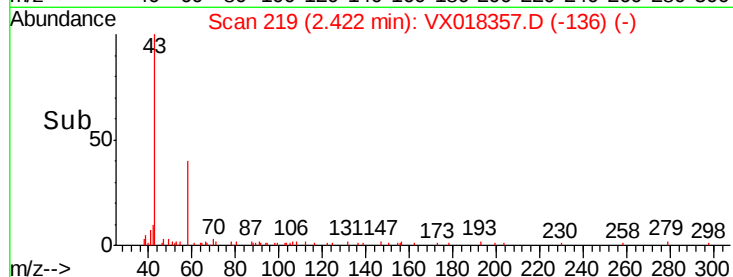
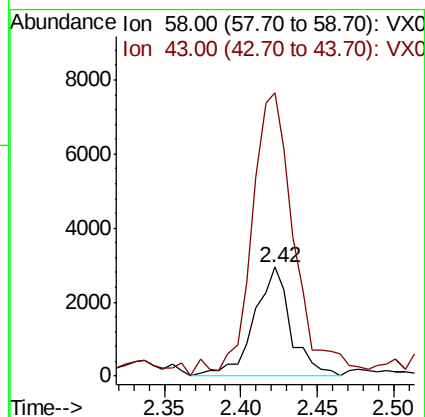
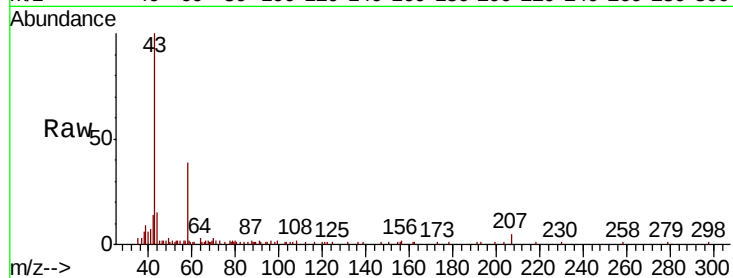




#15  
Acetone  
Concen: 7.690 ug/l  
RT: 2.42 min Scan# 219  
Delta R.T. 0.01 min  
Lab File: VX018357.D  
Acq: 11 Sep 2020 13:17

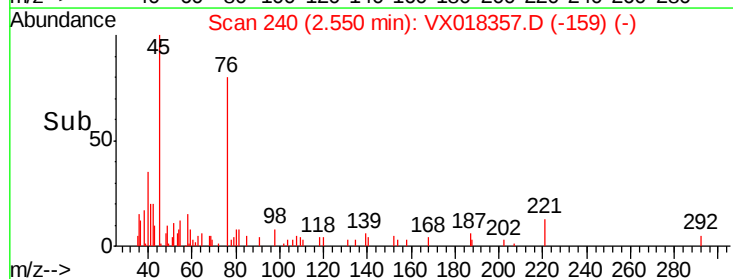
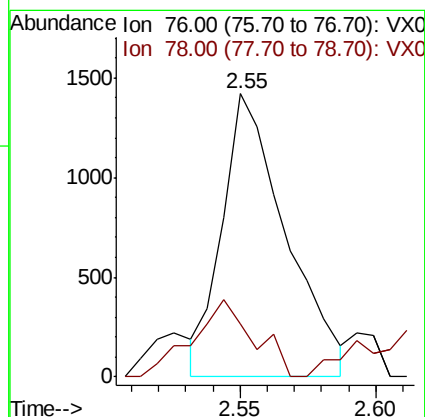
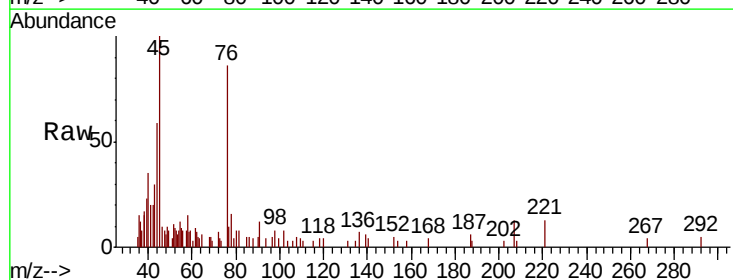
Instrument :  
MSVOA\_X  
ClientSampleId :

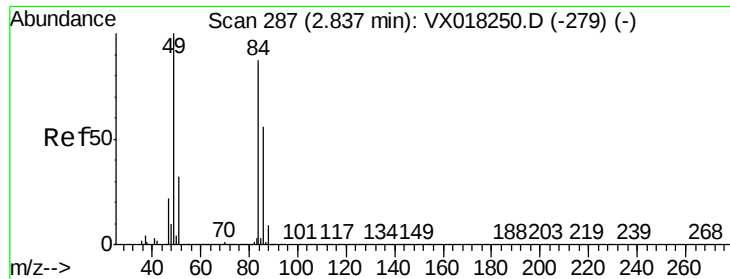
Tot Ion: 58 Resp: 4926  
Ion Ratio Lower Upper  
58 100  
43 259.3 248.2 372.2



#16  
Carbon Disulfide  
Concen: 0.200 ug/l  
RT: 2.55 min Scan# 240  
Delta R.T. -0.01 min  
Lab File: VX018357.D  
Acq: 11 Sep 2020 13:17

Tgt Ion: 76 Resp: 2304  
Ion Ratio Lower Upper  
76 100  
78 14.4 7.8 11.6#

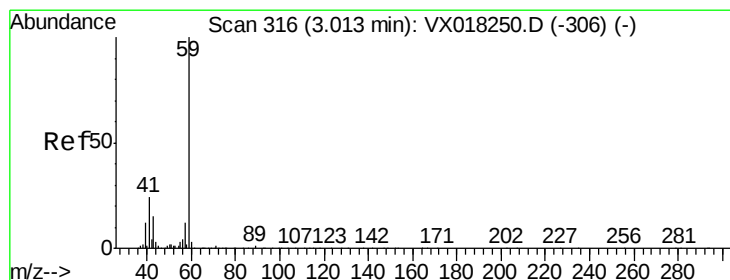
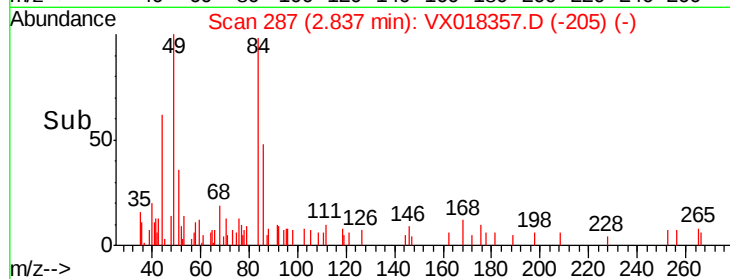
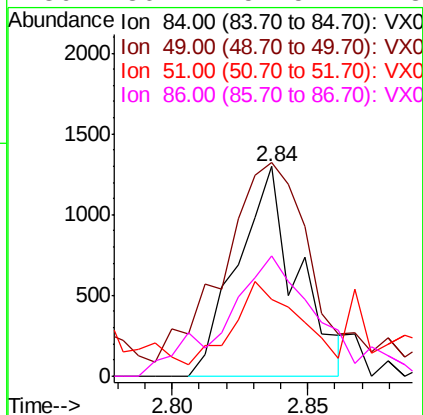
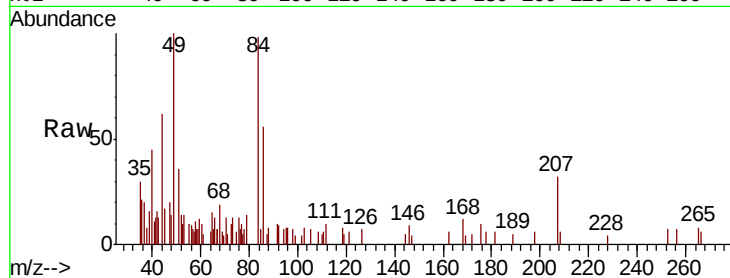




#18  
Methvlene Chloride  
Concen: 0.426 ug/l  
RT: 2.84 min Scan# 287  
Delta R.T. 0.00 min  
Lab File: VX018357.D  
Acq: 11 Sep 2020 13:17

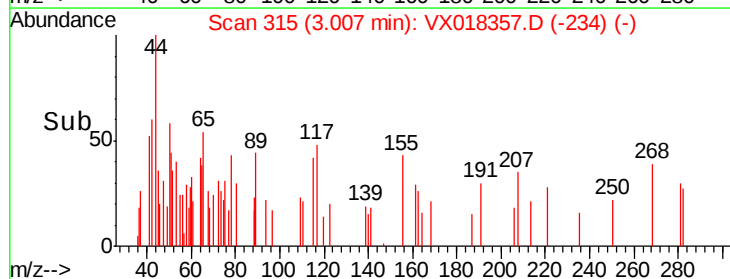
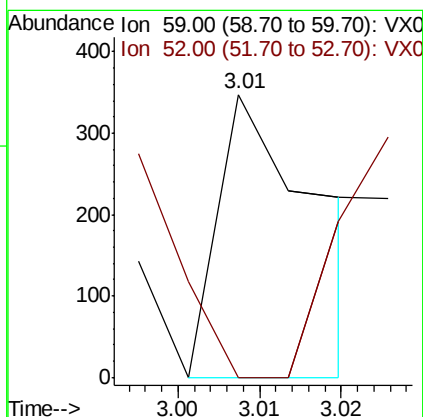
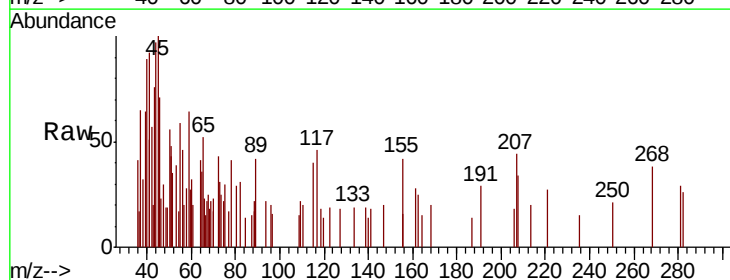
Instrument :  
MSVOA\_X  
ClientSampled :

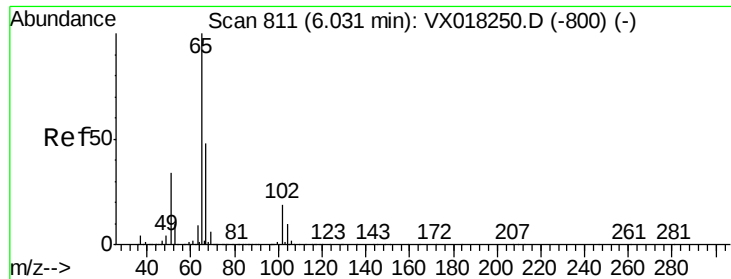
Tot Ion: 84 Resp: 1976  
Ion Ratio Lower Upper  
84 100  
49 82.0 91.6 137.4#  
51 30.7 29.4 44.0  
86 36.4 51.5 77.3#



#23  
tert-Butyl Alcohol  
Concen: 0.286 ug/l  
RT: 3.01 min Scan# 315  
Delta R.T. -0.01 min  
Lab File: VX018357.D  
Acq: 11 Sep 2020 13:17

Tgt Ion: 59 Resp: 292  
Ion Ratio Lower Upper  
59 100  
52 71.6 0.4 0.6#





#27

1,2-Dichloroethane-d4

Concen: 30.554 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018357.D

Acq: 11 Sep 2020 13:17

Instrument :

MSVOA\_X

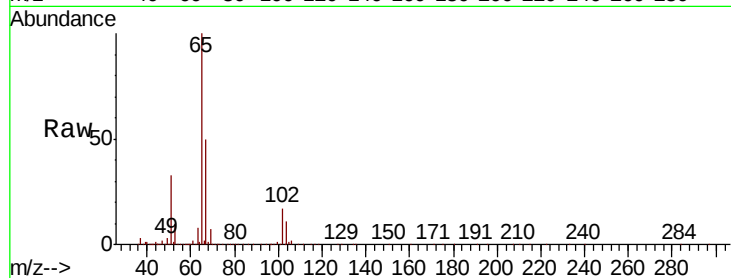
ClientSampleId :

Tot Ion: 65 Resp: 189293

Ion Ratio Lower Upper

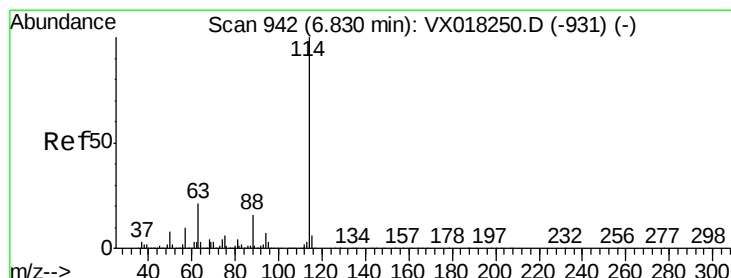
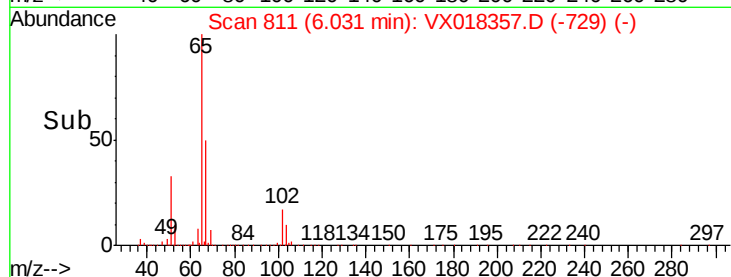
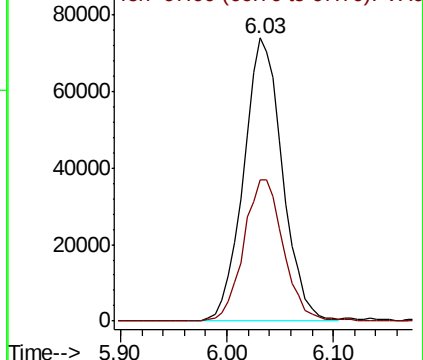
65 100

67 50.6 39.9 59.9



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX018357.D

Acq: 11 Sep 2020 13:17

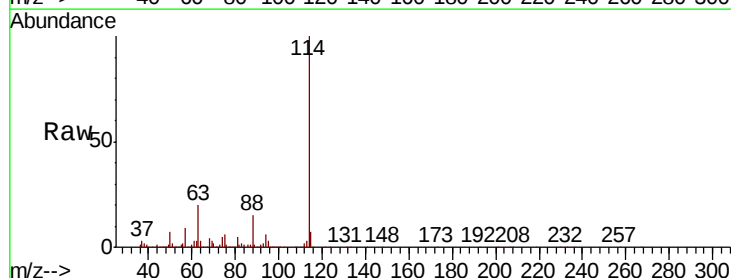
Tgt Ion: 114 Resp: 399551

Ion Ratio Lower Upper

114 100

63 21.0 16.7 25.1

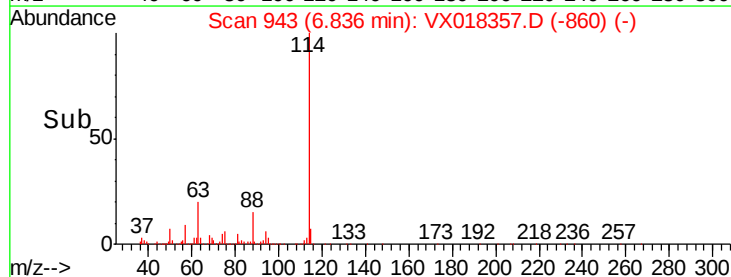
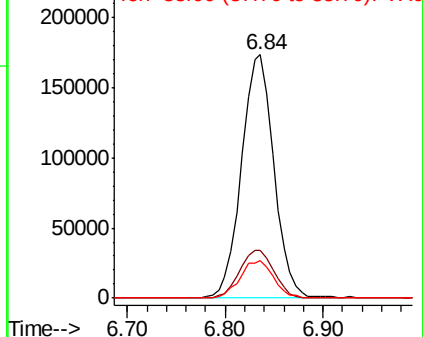
88 15.9 12.6 18.8

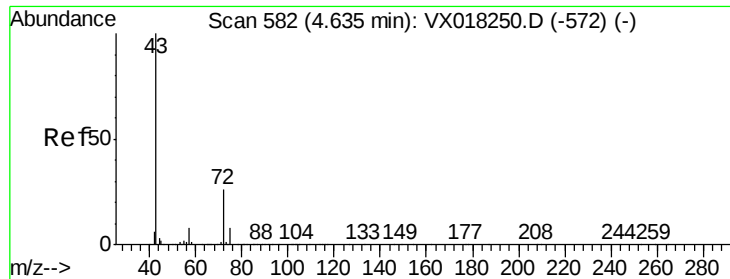


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

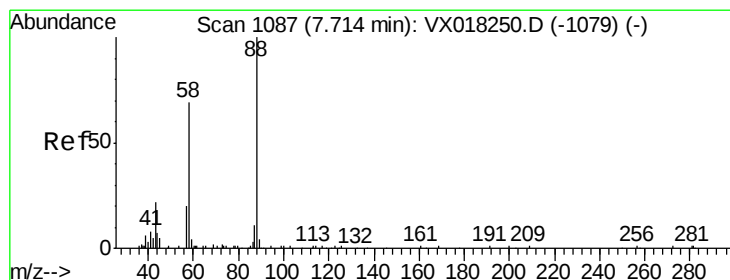
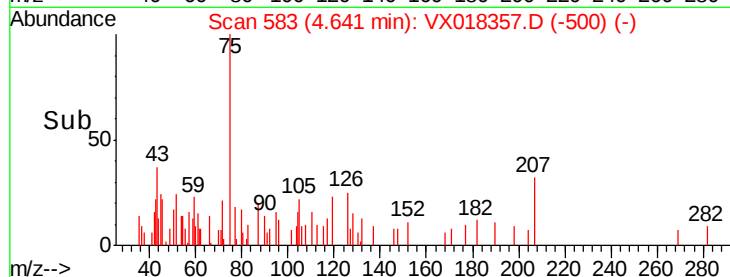
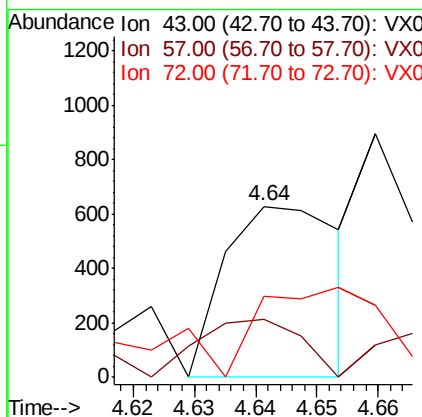
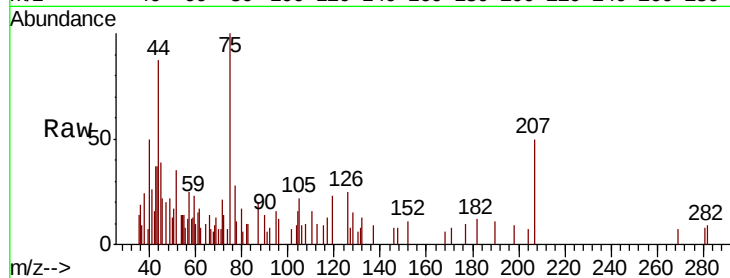




#30  
2-Butanone  
Concen: 0.246 ug/l  
RT: 4.64 min Scan# 583  
Delta R.T. 0.01 min  
Lab File: VX018357.D  
Acq: 11 Sep 2020 13:17

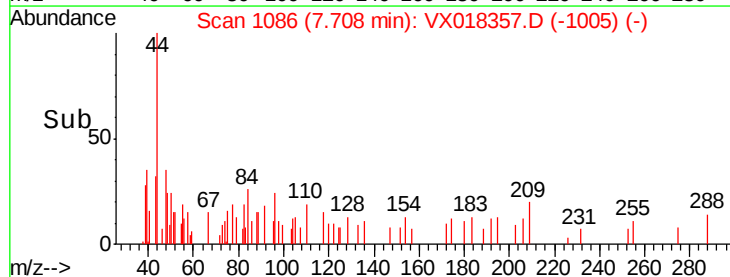
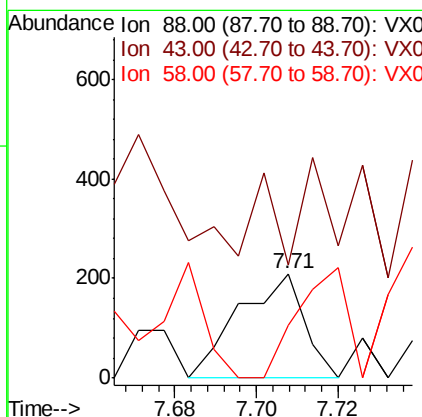
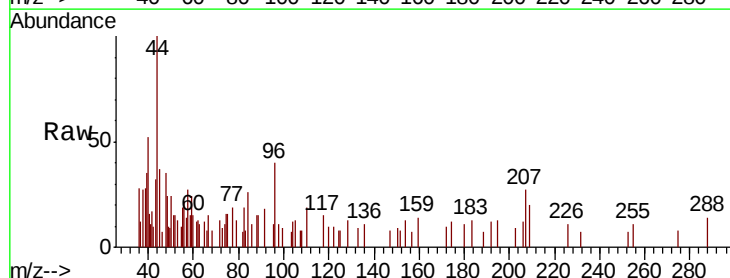
Instrument :  
MSVOA\_X  
ClientSampled :

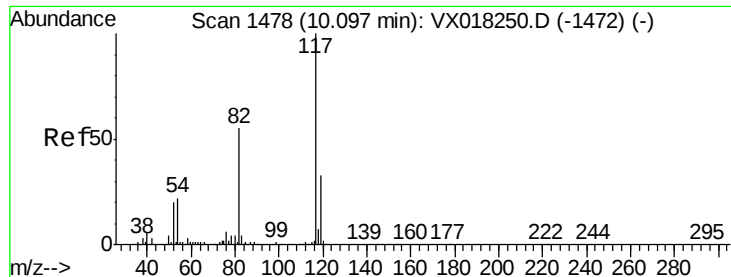
Tot Ion: 43 Resp: 823  
Ion Ratio Lower Upper  
43 100  
57 30.3 6.7 10.1#  
72 25.9 20.0 30.0



#45  
1,4-Dioxane  
Concen: 2.606 ug/l  
RT: 7.71 min Scan# 1086  
Delta R.T. -0.01 min  
Lab File: VX018357.D  
Acq: 11 Sep 2020 13:17

Tgt Ion: 88 Resp: 233  
Ion Ratio Lower Upper  
88 100  
43 29.2 13.6 20.4#  
58 0.0 58.2 87.4#

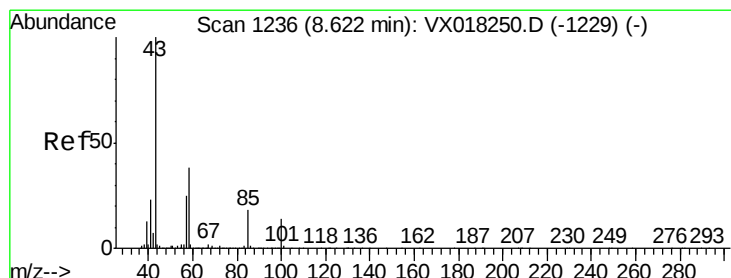
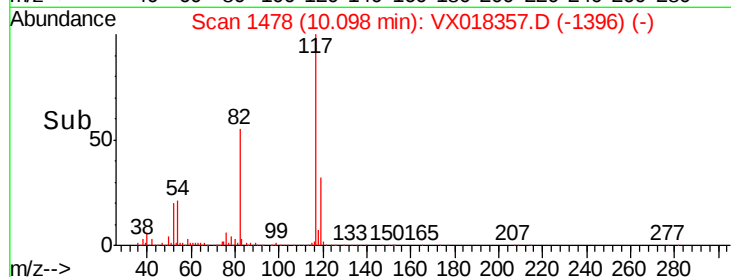
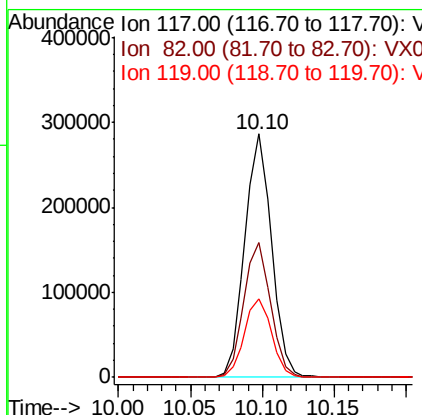
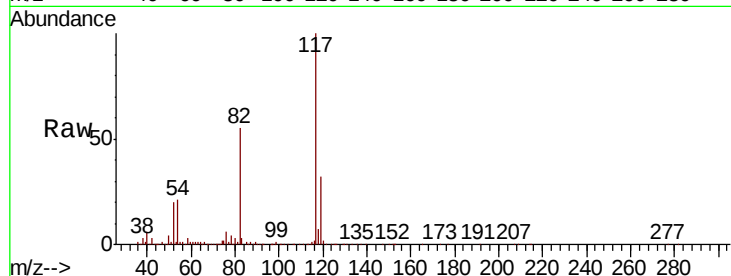




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VX018357.D  
Acq: 11 Sep 2020 13:17

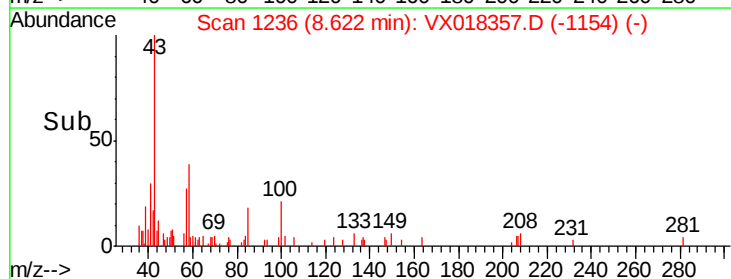
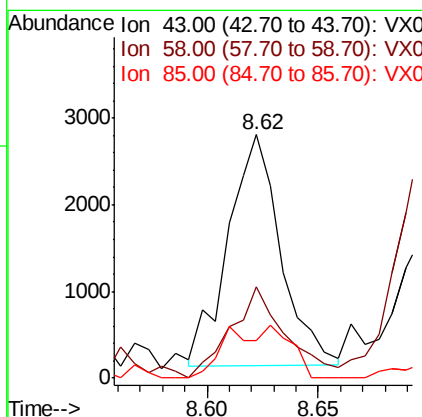
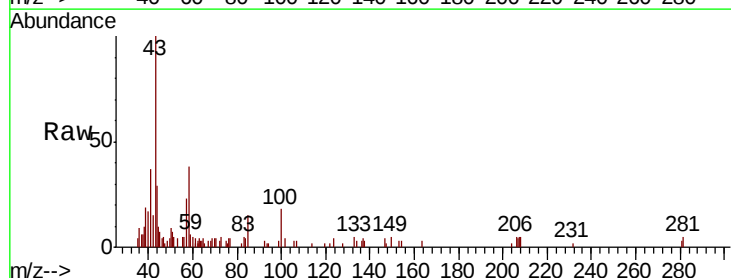
Instrument :  
MSVOA\_X  
ClientSampleId :

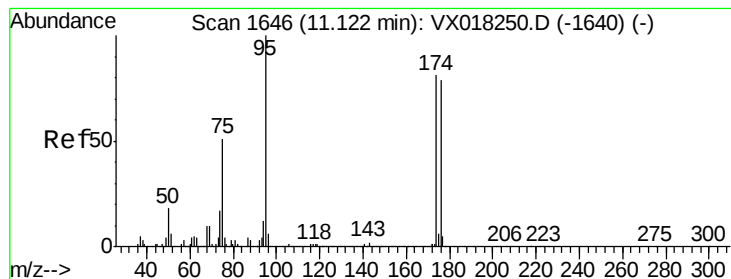
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.7  | 44.2  | 66.4  |
| 119     | 32.9  | 26.1  | 39.1  |



#58  
4-Methyl-2-Pentanone  
Concen: 0.694 ug/l  
RT: 8.62 min Scan# 1236  
Delta R.T. 0.00 min  
Lab File: VX018357.D  
Acq: 11 Sep 2020 13:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 41.4  | 30.0  | 45.0  |
| 85      | 11.9  | 14.2  | 21.4# |





#60

4-Bromofluorobenzene

Concen: 27.153 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018357.D

Acq: 11 Sep 2020 13:17

Instrument :

MSVOA\_X

ClientSampleId :

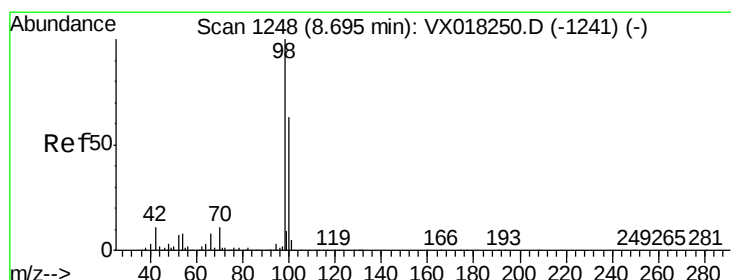
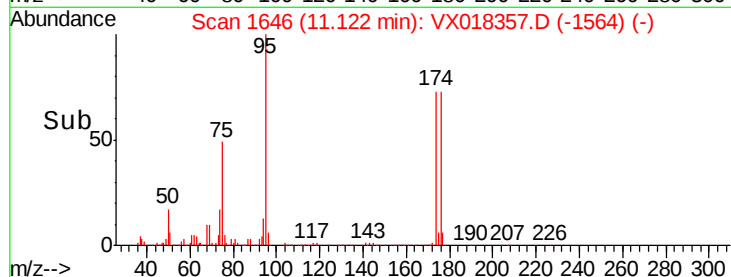
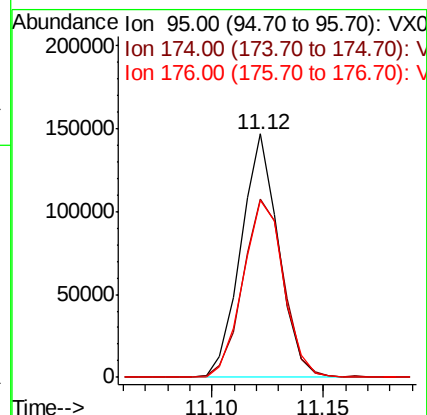
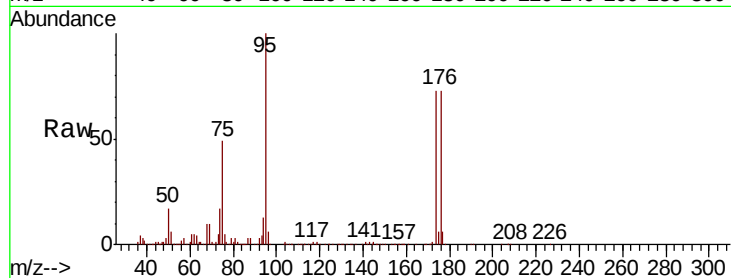
Tot Ion: 95 Resp: 173449

Ion Ratio Lower Upper

95 100

174 79.0 64.2 96.4

176 78.3 62.2 93.4



#63

Toluene-d8

Concen: 29.683 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018357.D

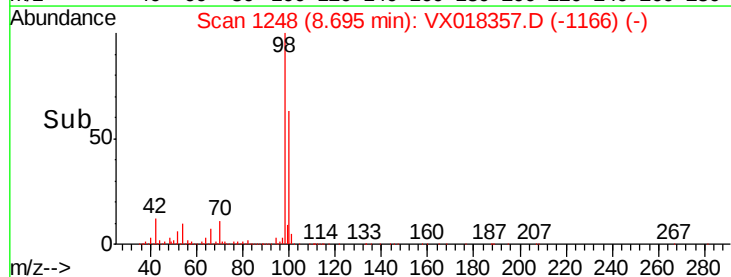
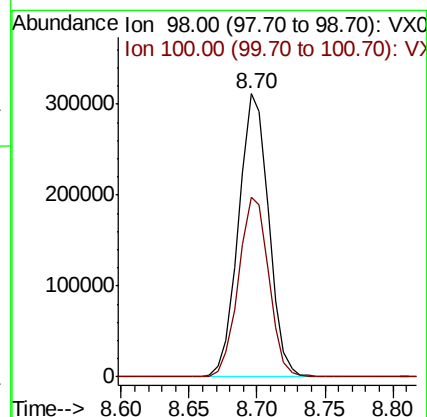
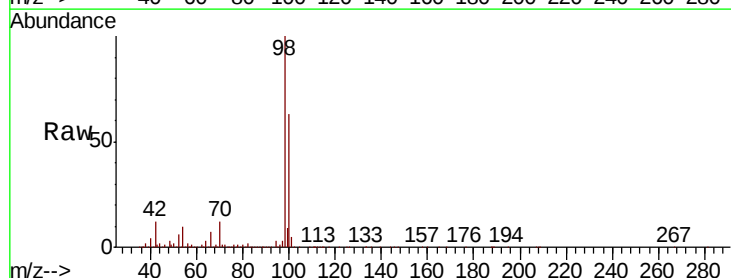
Acq: 11 Sep 2020 13:17

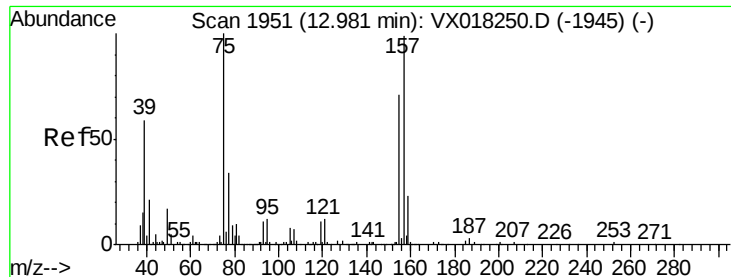
Tgt Ion: 98 Resp: 482173

Ion Ratio Lower Upper

98 100

100 63.7 51.4 77.0





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.272 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX018357.D

Acq: 11 Sep 2020 13:17

Instrument :

MSVOA\_X

ClientSampleId :

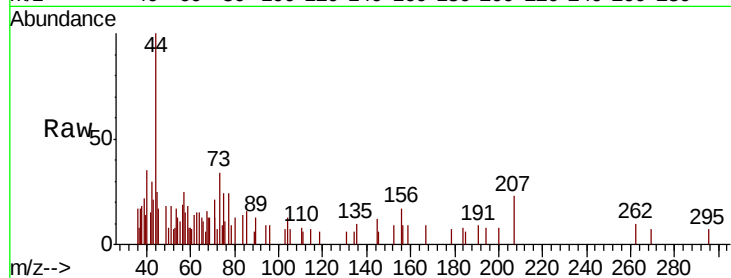
Tot Ion: 75 Resp: 468

Ion Ratio Lower Upper

75 100

155 0.0 63.4 95.2#

157 6.6 87.0 130.6#



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

