

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX011320\  
 Data File : VX014577.D  
 Acq On : 13 Jan 2020 11:13  
 Operator : JC/SP  
 Sample : VX0113WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0113WBL01

Quant Time: Jan 14 13:03:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 07 15:54:41 2020  
 Response via : Initial Calibration

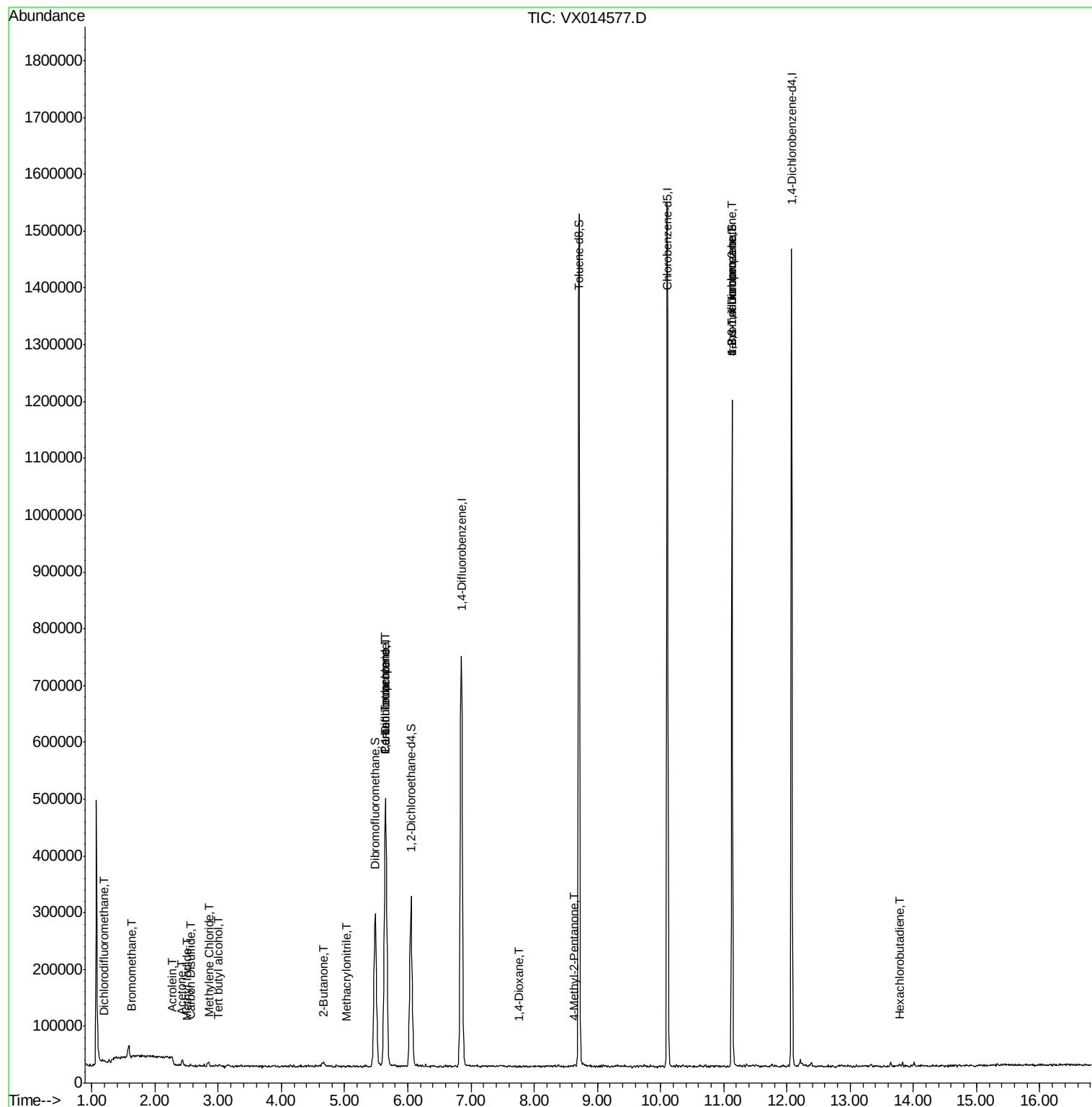
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 5.65  | 168  | 492795   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 6.85  | 114  | 762497   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 10.10 | 117  | 685386   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.07 | 152  | 310166   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 6.05  | 65   | 275402   | 50.06     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 100.12% |          |
| 35) Dibromofluoromethane       | 5.48  | 113  | 227916   | 49.38     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 98.76%  |          |
| 50) Toluene-d8                 | 8.71  | 98   | 902191   | 50.37     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 100.74% |          |
| 62) 4-Bromofluorobenzene       | 11.13 | 95   | 305178   | 46.41     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 92.82%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 2) Dichlorodifluoromethane     | 1.19  | 85   | 809      | 0.384     | ug/l #  | 63       |
| 5) Bromomethane                | 1.64  | 94   | 2304     | 0.497     | ug/l    | 88       |
| 6) Chloroethane                | 1.72  | 64   | 1183     | Below Cal | #       | 64       |
| 10) Methyl Iodide              | 2.51  | 142  | 1982     | 0.343     | ug/l #  | 76       |
| 11) Tert butyl alcohol         | 3.00  | 59   | 1272     | 1.107     | ug/l #  | 1        |
| 13) Acrolein                   | 2.28  | 56   | 870      | 0.945     | ug/l #  | 15       |
| 16) Acetone                    | 2.43  | 43   | 13338    | 0.668     | ug/l    | 93       |
| 17) Carbon Disulfide           | 2.56  | 76   | 3817     | 0.281     | ug/l    | 95       |
| 20) Methylene Chloride         | 2.85  | 84   | 3678     | 0.665     | ug/l #  | 92       |
| 25) 2-Butanone                 | 4.67  | 43   | 4869     | 1.185     | ug/l    | 98       |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 34084    | 4.753     | ug/l #  | 53       |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 42957    | 6.510     | ug/l #  | 19       |
| 41) Methacrylonitrile          | 5.04  | 41   | 1214     | 0.292     | ug/l #  | 26       |
| 49) 1,4-Dioxane                | 7.77  | 88   | 155      | 1.214     | ug/l #  | 1        |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 3443     | 0.449     | ug/l    | 91       |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 148063   | 23.072    | ug/l #  | 34       |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 148063   | 60.998    | ug/l #  | 12       |
| 88) 1,4-Dichlorobenzene        | 12.02 | 146  | 1587     | Below Cal |         | 84       |
| 94) Hexachlorobutadiene        | 13.78 | 225  | 648      | 0.247     | ug/l    | 87       |

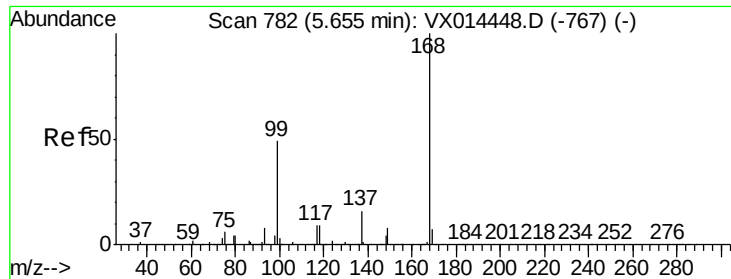
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX011320\  
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Instrument :  
MSVOA\_X  
ClientSampled :  
VX0113WBL01

Quant Time: Jan 14 13:03:56 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X010720W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 07 15:54:41 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

Instrument :

MSVOA\_X

ClientSampleId :

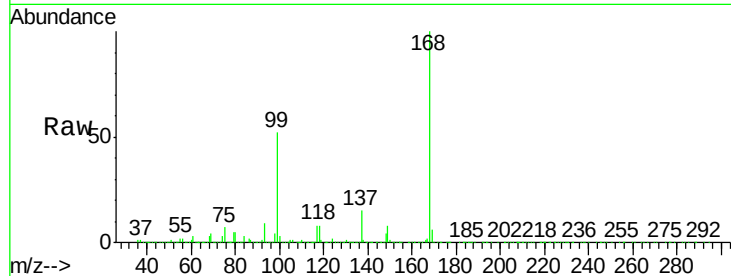
VX0113WBL01

Tgt Ion: 168 Resp: 492795

Ion Ratio Lower Upper

168 100

99 51.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

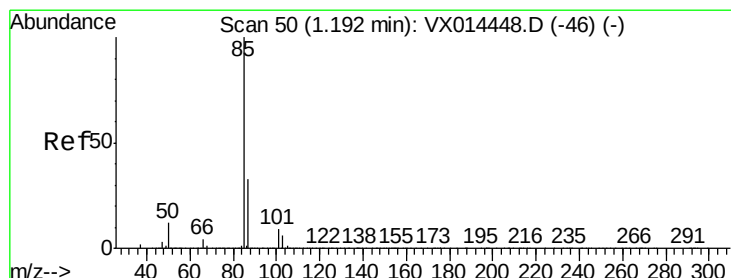
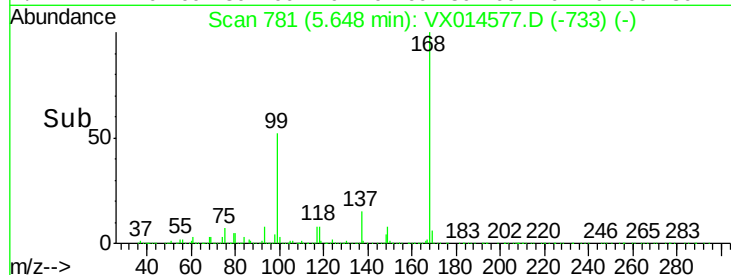
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.384 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014577.D

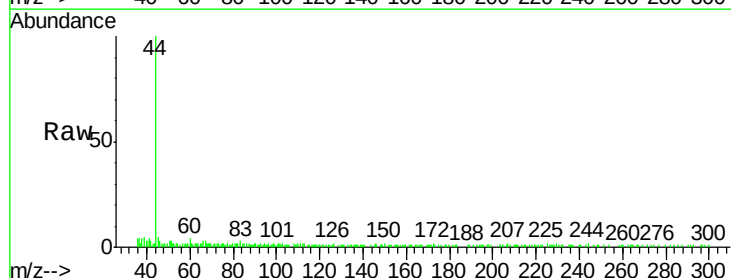
Acq: 13 Jan 2020 11:13

Tgt Ion: 85 Resp: 809

Ion Ratio Lower Upper

85 100

87 11.8 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

500

400

300

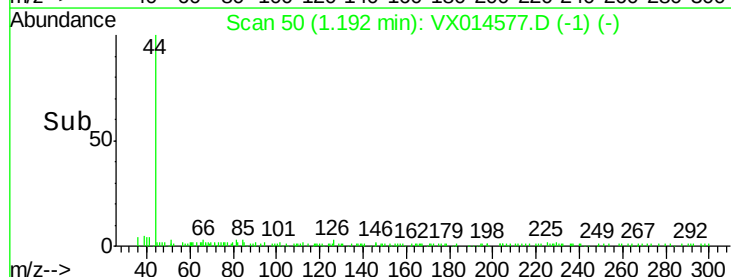
200

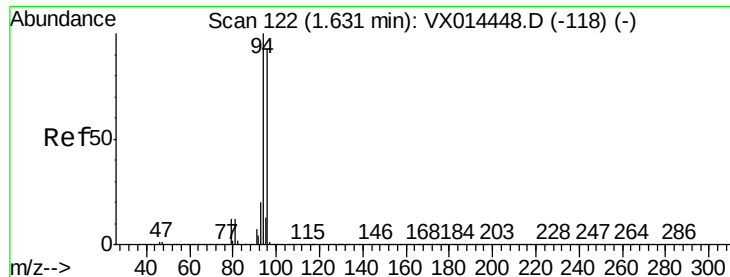
100

0

Time-->

1.15 1.20





#5

Bromomethane

Concen: 0.497 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

Instrument :

MSVOA\_X

ClientSampled :

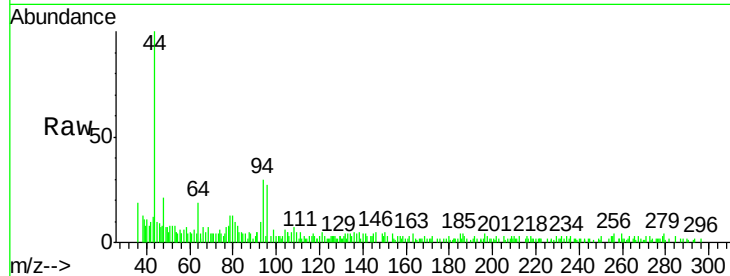
VX0113WBL01

Tgt Ion: 94 Resp: 2304

Ion Ratio Lower Upper

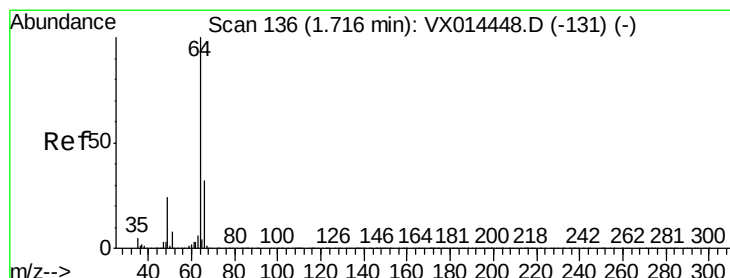
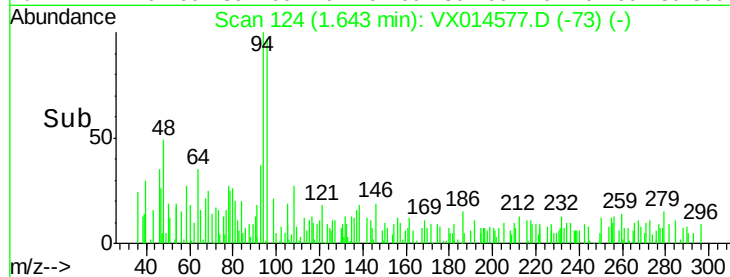
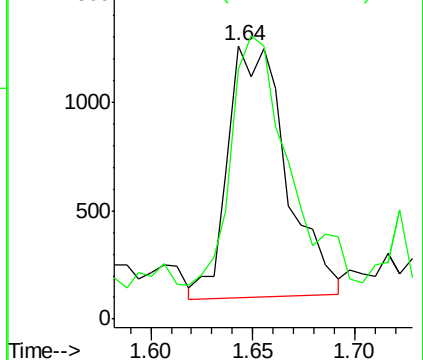
94 100

96 103.7 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX014577.D

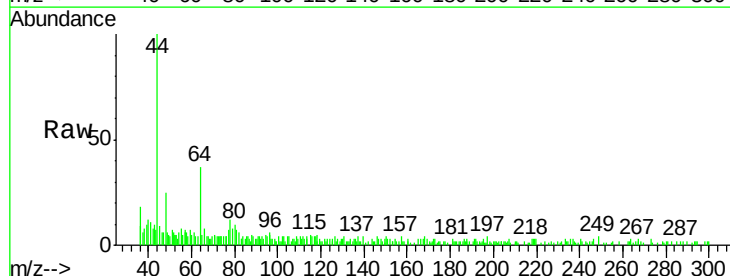
Acq: 13 Jan 2020 11:13

Tgt Ion: 64 Resp: 1183

Ion Ratio Lower Upper

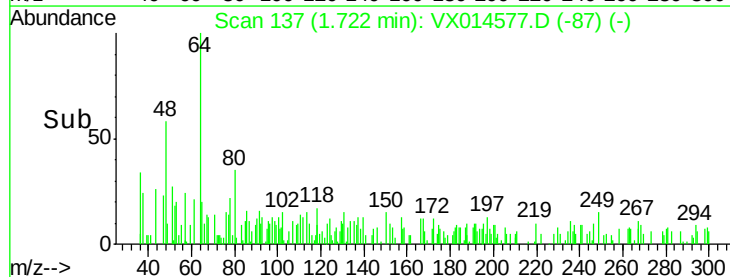
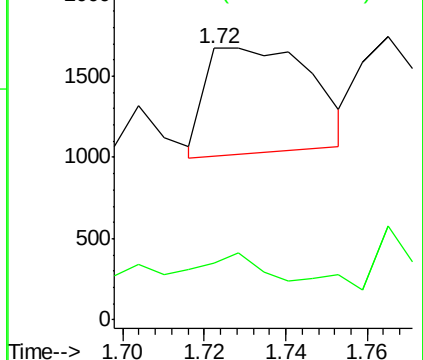
64 100

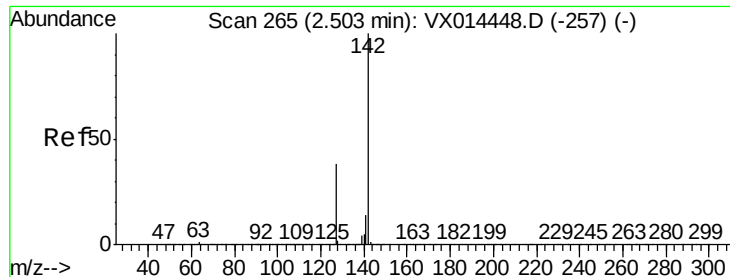
66 11.6 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

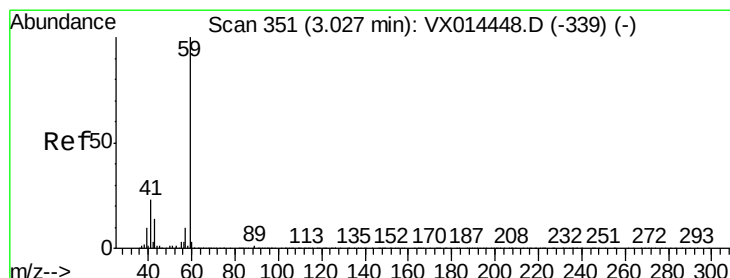
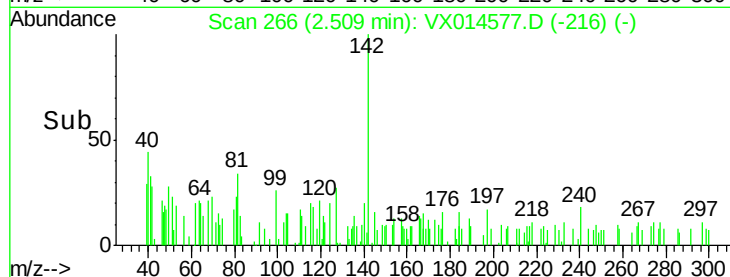
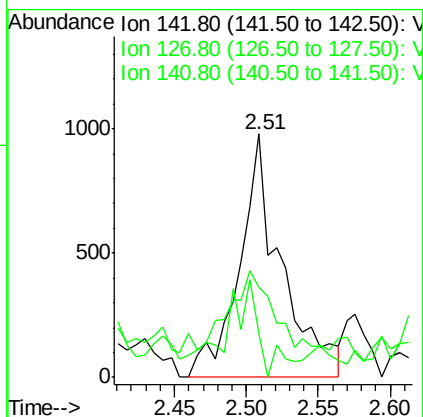
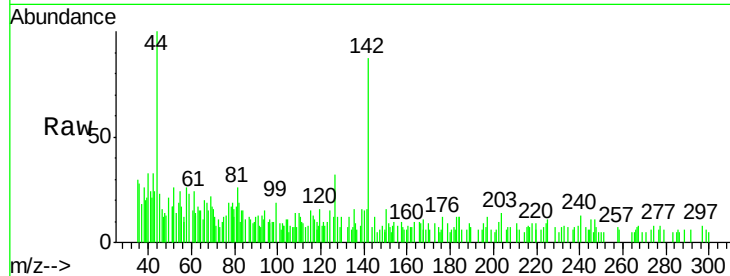




#10  
Methyl Iodide  
Concen: 0.343 ug/l  
RT: 2.51 min Scan# 266  
Delta R.T. 0.01 min  
Lab File: VX014577.D  
Acq: 13 Jan 2020 11:13

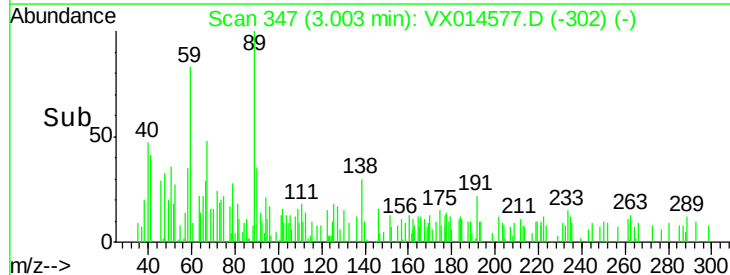
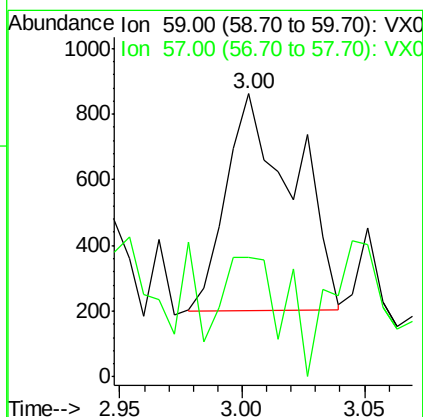
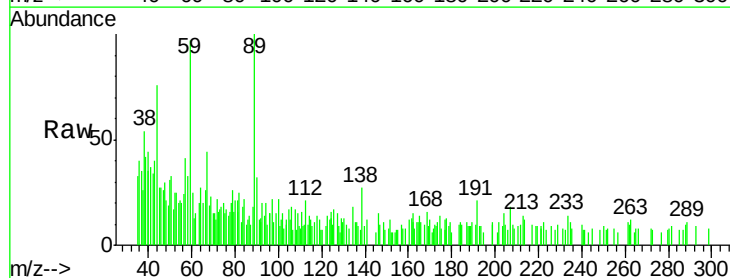
Instrument :  
MSVOA\_X  
ClientSampled :  
VX0113WBL01

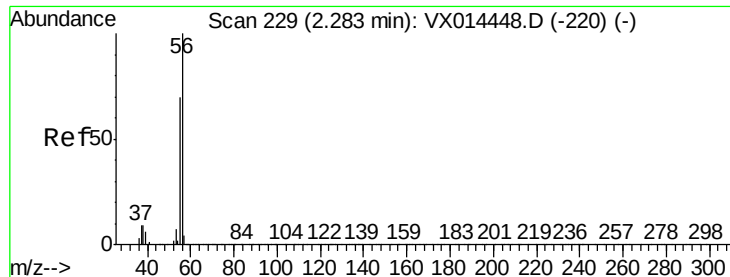
Tgt Ion: 142 Resp: 1982  
Ion Ratio Lower Upper  
142 100  
127 51.0 31.2 46.8#  
141 29.5 11.4 17.2#



#11  
Tert butyl alcohol  
Concen: 1.107 ug/l  
RT: 3.00 min Scan# 347  
Delta R.T. -0.02 min  
Lab File: VX014577.D  
Acq: 13 Jan 2020 11:13

Tgt Ion: 59 Resp: 1272  
Ion Ratio Lower Upper  
59 100  
57 50.0 8.5 12.7#





#13

Acrolein

Concen: 0.945 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

Instrument :

MSVOA\_X

ClientSampled :

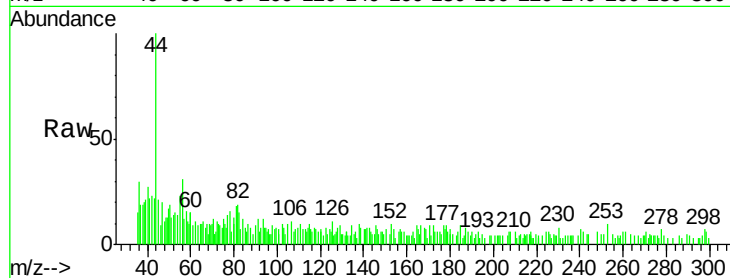
VX0113WBL01

Tgt Ion: 56 Resp: 870

Ion Ratio Lower Upper

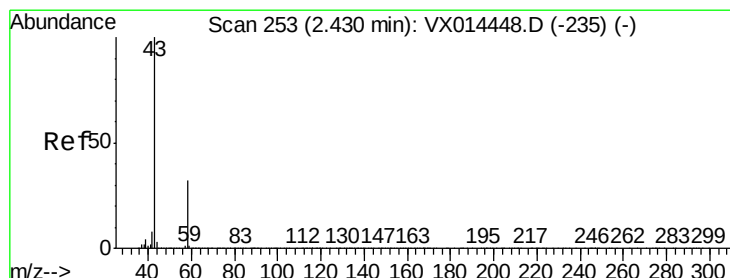
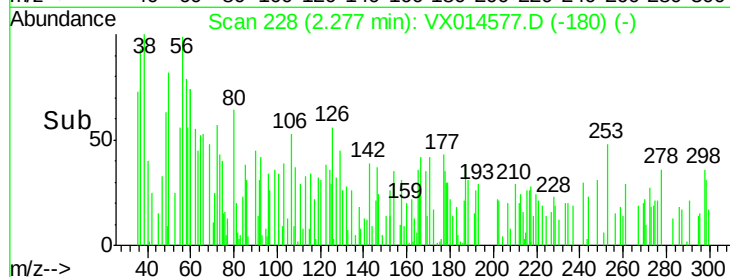
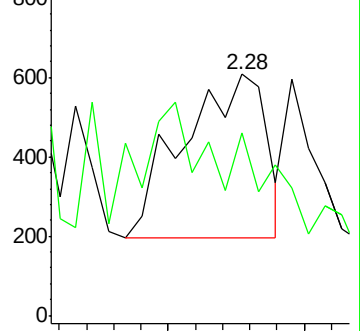
56 100

55 0.0 55.0 82.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.668 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014577.D

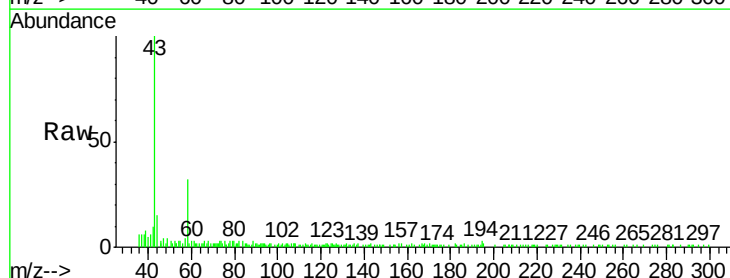
Acq: 13 Jan 2020 11:13

Tgt Ion: 43 Resp: 13338

Ion Ratio Lower Upper

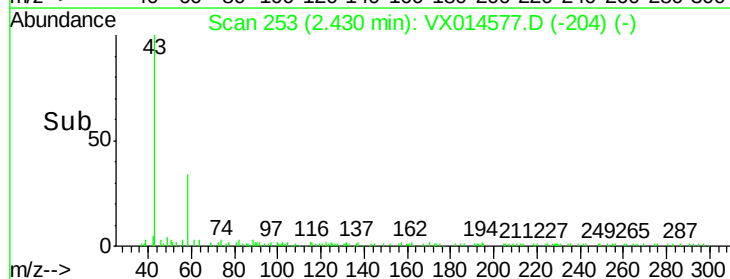
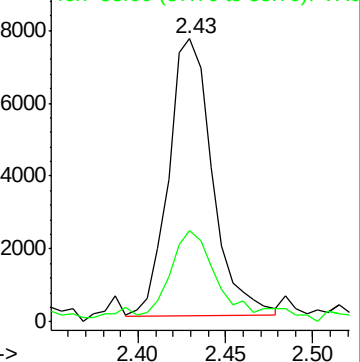
43 100

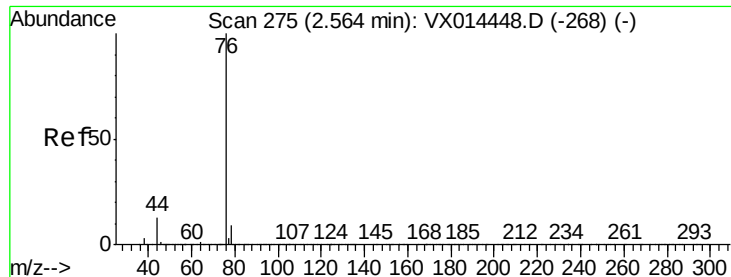
58 28.0 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.281 ug/l

RT: 2.56 min Scan# 275

Delta R.T. -0.00 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

Instrument :

MSVOA\_X

ClientSampleId :

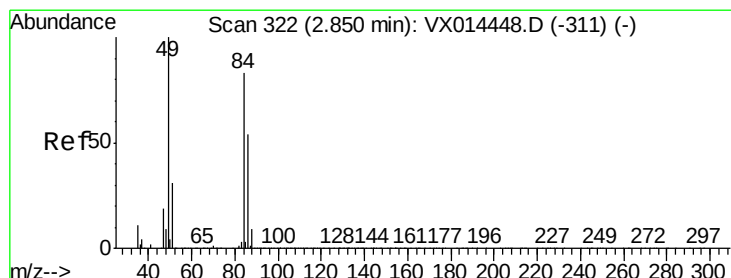
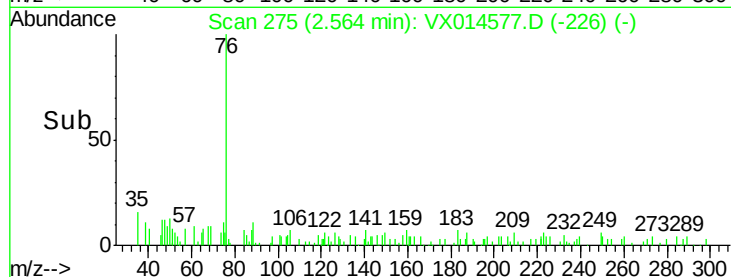
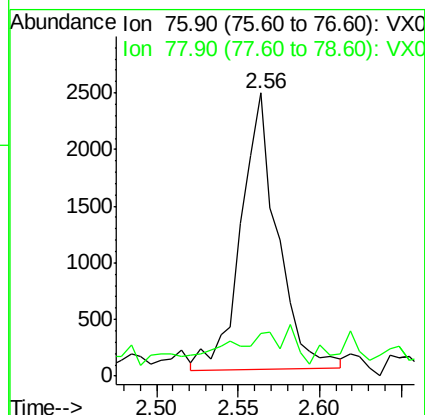
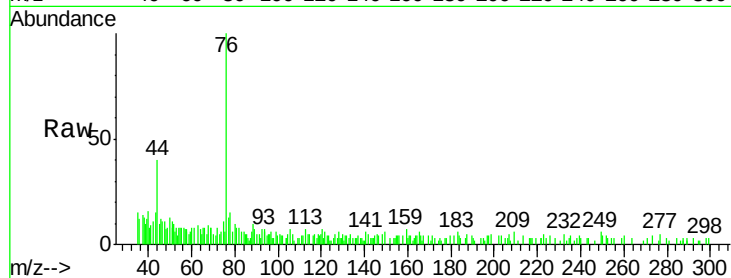
VX0113WBL01

Tgt Ion: 76 Resp: 3817

Ion Ratio Lower Upper

76 100

78 7.6 7.4 11.2



#20

Methylene Chloride

Concen: 0.665 ug/l

RT: 2.85 min Scan# 322

Delta R.T. -0.00 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

Tgt Ion: 84 Resp: 3678

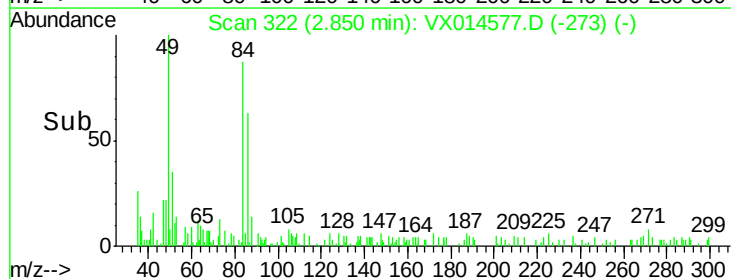
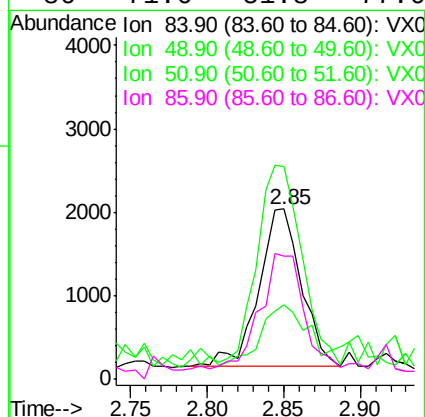
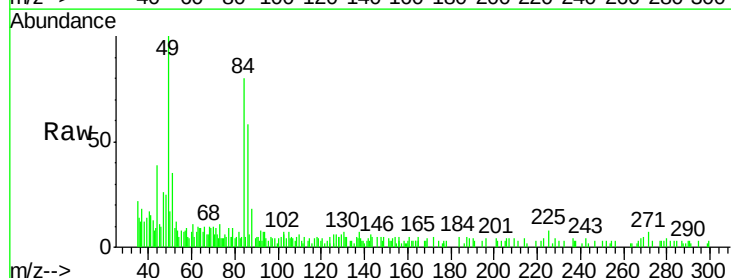
Ion Ratio Lower Upper

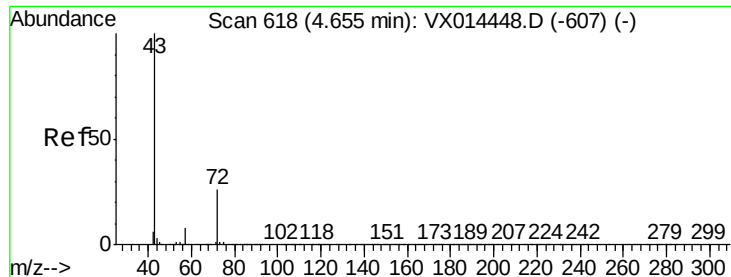
84 100

49 126.4 95.8 143.8

51 28.5 30.2 45.4#

86 71.6 51.8 77.6

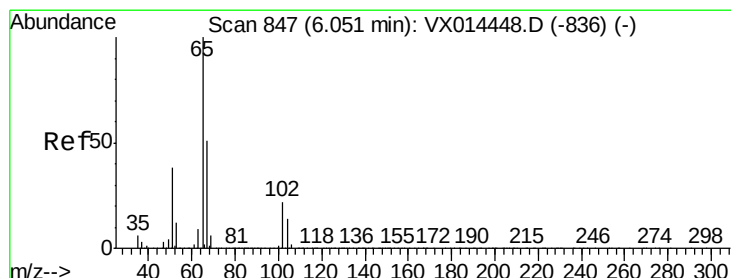
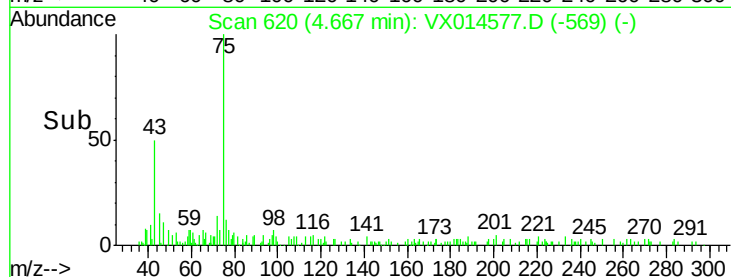
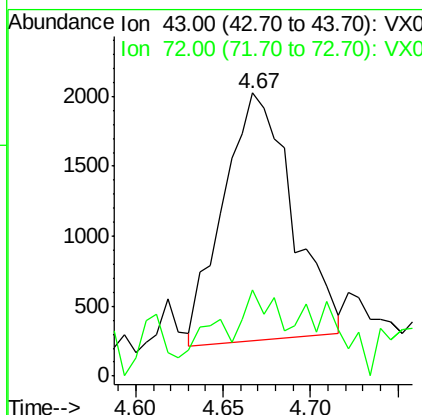
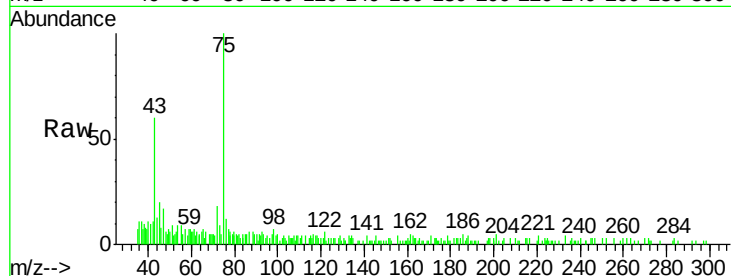




#25  
2-Butanone  
Concen: 1.185 ug/l  
RT: 4.67 min Scan# 620  
Delta R.T. 0.01 min  
Lab File: VX014577.D  
Acq: 13 Jan 2020 11:13

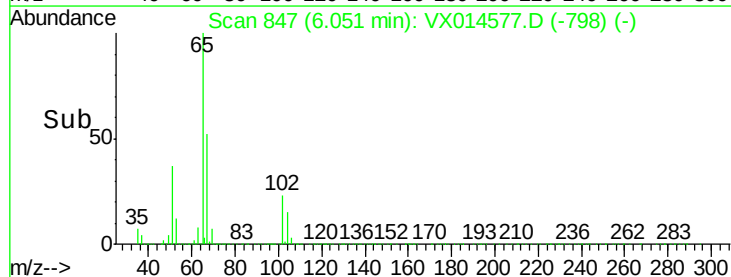
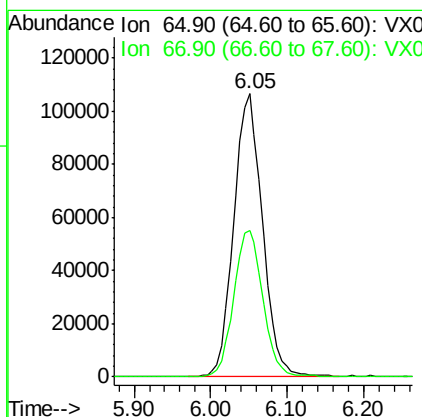
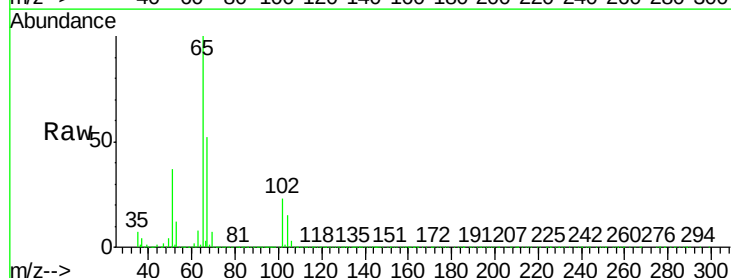
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0113WBL01

Tgt Ion: 43 Resp: 4869  
Ion Ratio Lower Upper  
43 100  
72 24.9 20.6 31.0

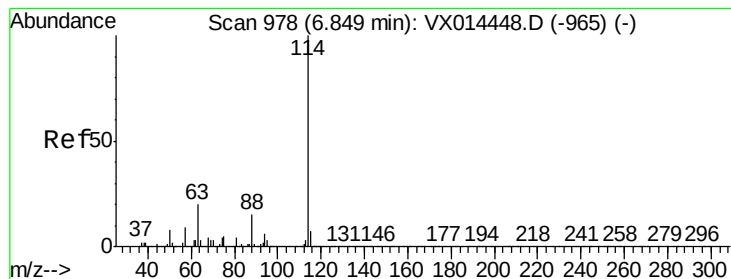


#33  
1,2-Dichloroethane-d4  
Concen: 50.062 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. -0.00 min  
Lab File: VX014577.D  
Acq: 13 Jan 2020 11:13

Tgt Ion: 65 Resp: 275402  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 106.2







#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

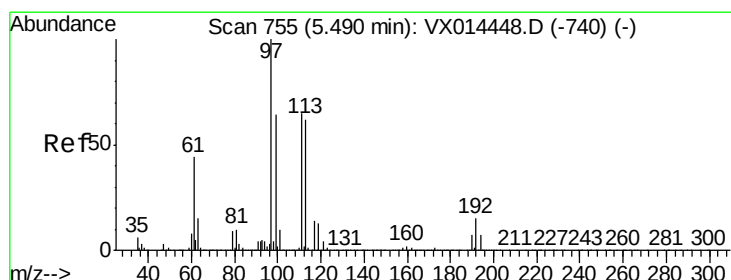
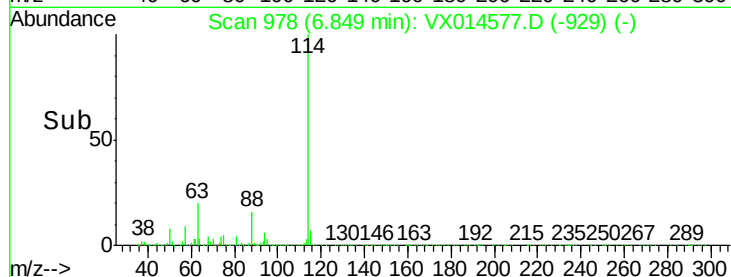
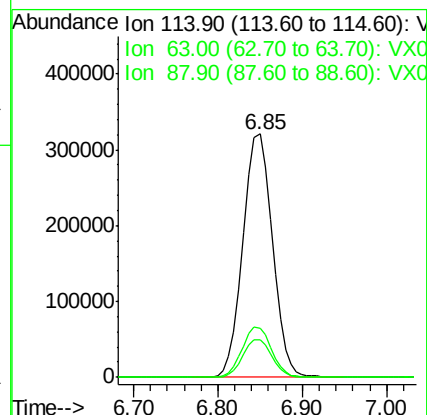
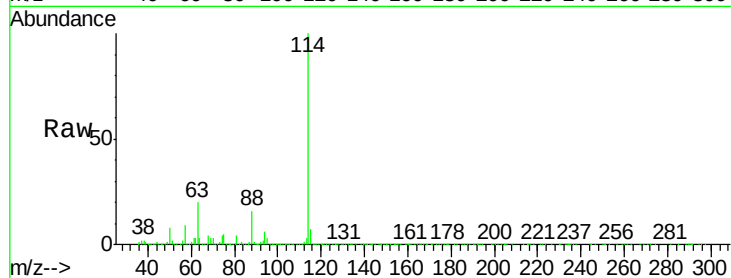
Instrument :

MSVOA\_X

ClientSampleId :

VX0113WBL01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 762497 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 19.9  | 0.0   | 39.6   |
| 88       | 15.5  | 0.0   | 30.8   |



#35

Dibromofluoromethane

Concen: 49.378 ug/l

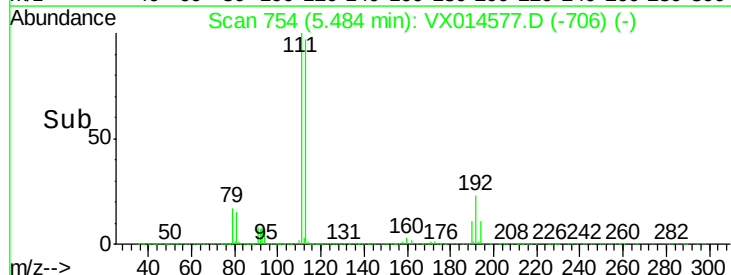
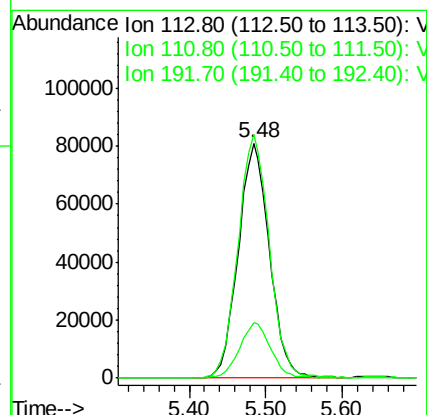
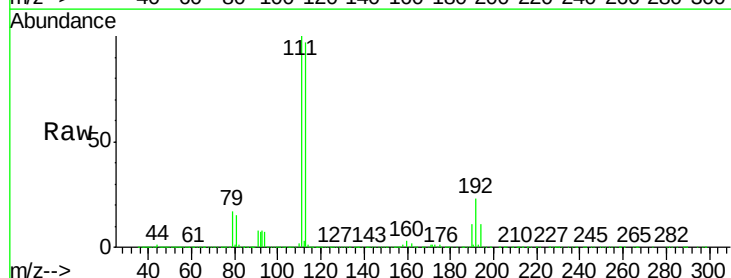
RT: 5.48 min Scan# 754

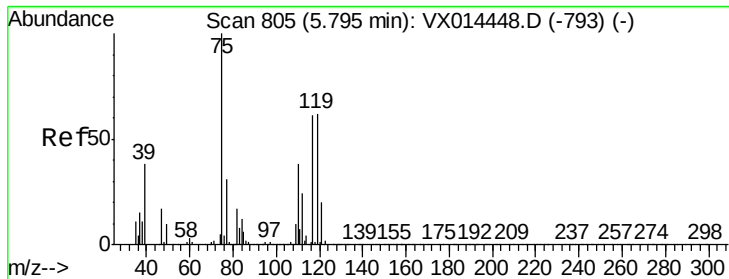
Delta R.T. -0.01 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 227916 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 104.6 | 81.5  | 122.3  |
| 192      | 23.7  | 19.2  | 28.8   |

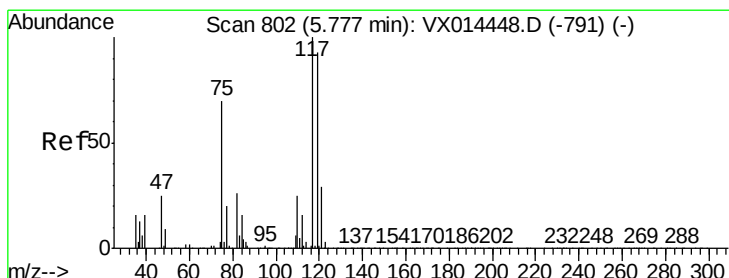
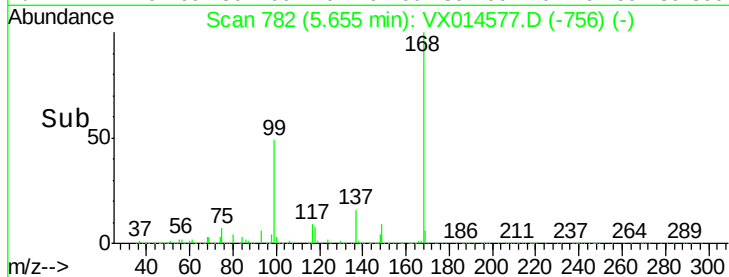
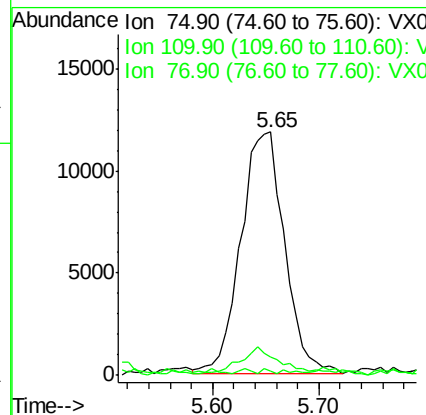
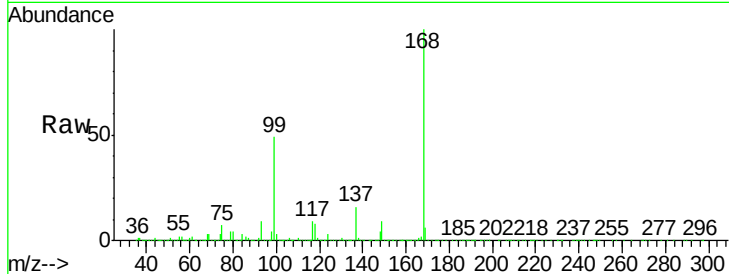




#36  
 1,1-Dichloropropene  
 Concen: 4.753 ug/l  
 RT: 5.65 min Scan# 782  
 Delta R.T. -0.14 min  
 Lab File: VX014577.D  
 Acq: 13 Jan 2020 11:13

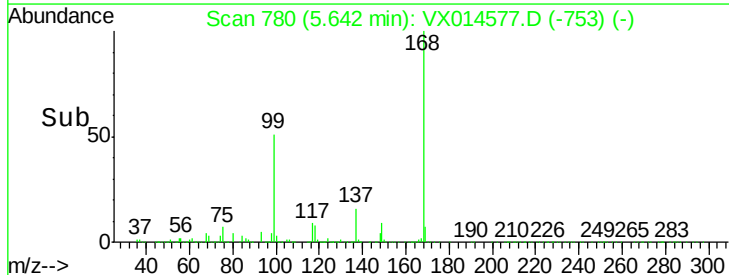
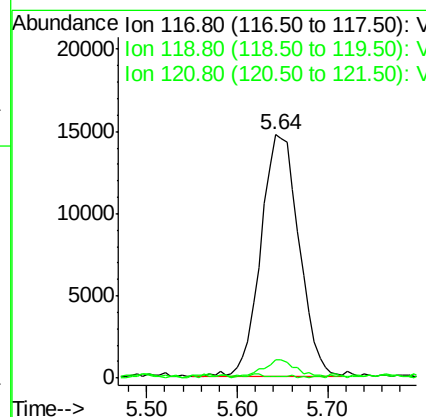
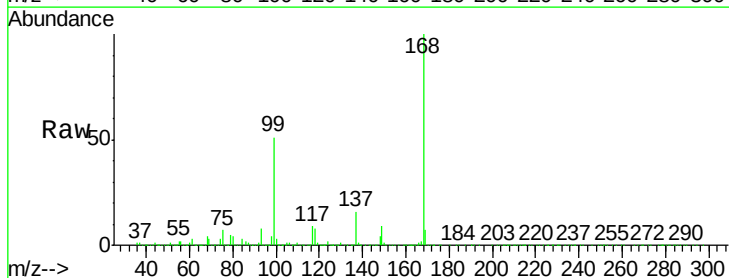
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0113WBL01

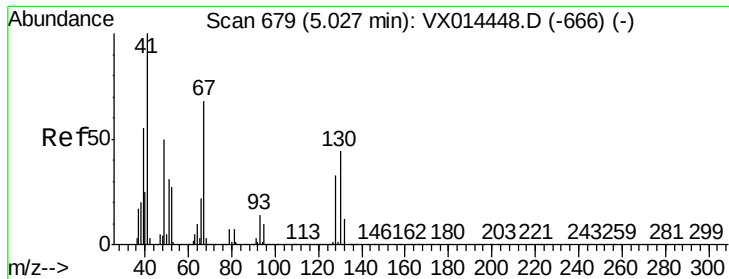
Tgt Ion: 75 Resp: 34084  
 Ion Ratio Lower Upper  
 75 100  
 110 12.4 18.6 55.8#  
 77 0.7 24.5 36.7#



#38  
 Carbon Tetrachloride  
 Concen: 6.510 ug/l  
 RT: 5.64 min Scan# 780  
 Delta R.T. -0.13 min  
 Lab File: VX014577.D  
 Acq: 13 Jan 2020 11:13

Tgt Ion: 117 Resp: 42957  
 Ion Ratio Lower Upper  
 117 100  
 119 6.4 73.8 110.8#  
 121 0.7 23.4 35.0#

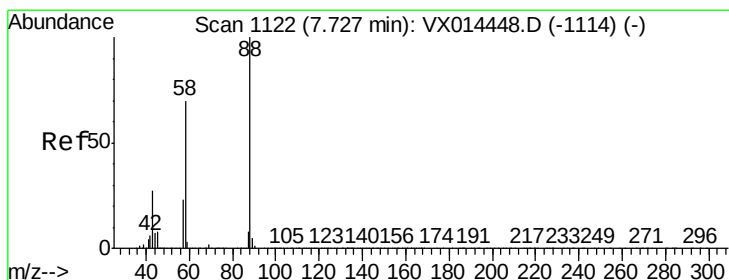
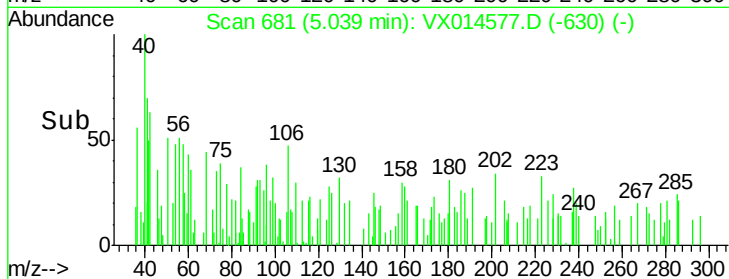
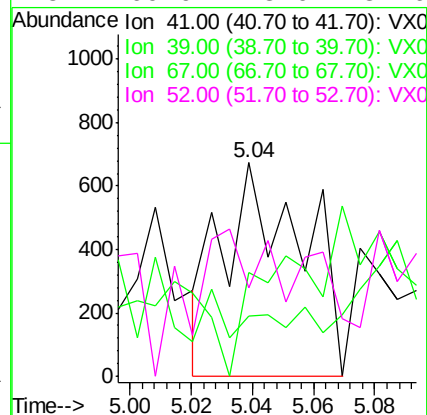
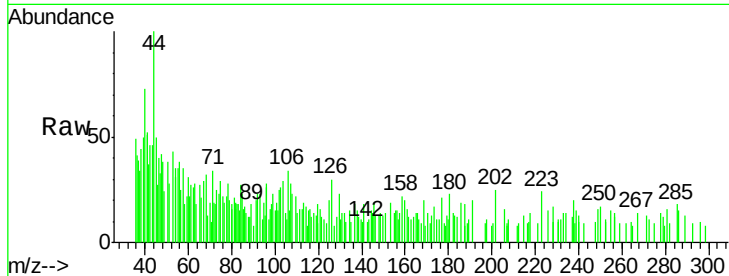




#41  
Methacrylonitrile  
Concen: 0.292 ug/l  
RT: 5.04 min Scan# 681  
Delta R.T. 0.01 min  
Lab File: VX014577.D  
Acq: 13 Jan 2020 11:13

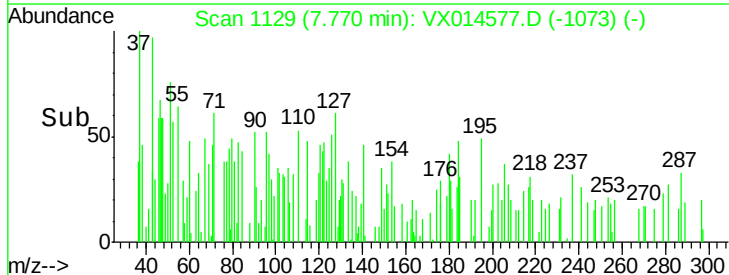
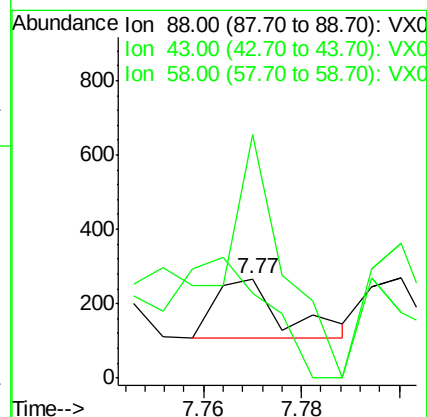
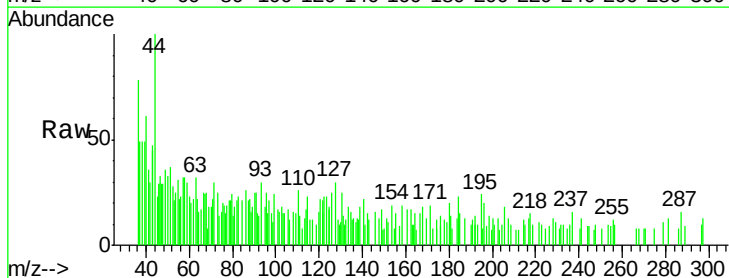
Instrument :  
MSVOA\_X  
ClientSampled :  
VX0113WBL01

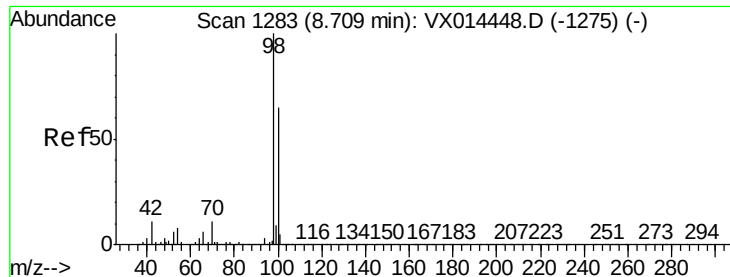
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 1214  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 0.0   | 43.6  | 65.4# |
| 67       | 12.9  | 57.9  | 86.9# |
| 52       | 69.9  | 23.0  | 34.6# |



#49  
1,4-Dioxane  
Concen: 1.214 ug/l  
RT: 7.77 min Scan# 1129  
Delta R.T. 0.04 min  
Lab File: VX014577.D  
Acq: 13 Jan 2020 11:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 155   |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 577.4 | 27.4  | 41.0# |
| 58       | 240.0 | 57.1  | 85.7# |





#50

Toluene-d8

Concen: 50.368 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

Instrument :

MSVOA\_X

ClientSampleId :

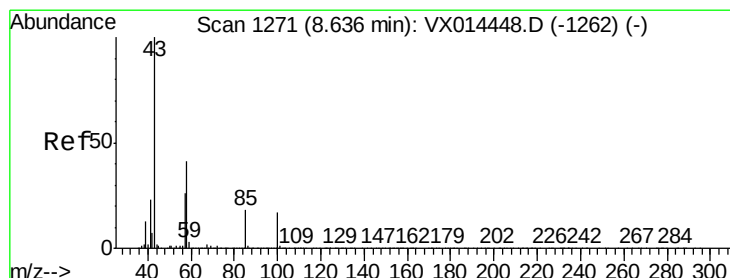
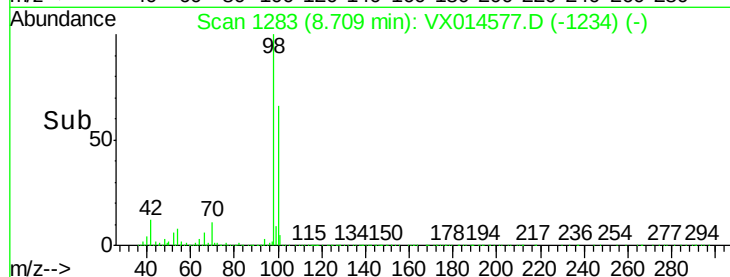
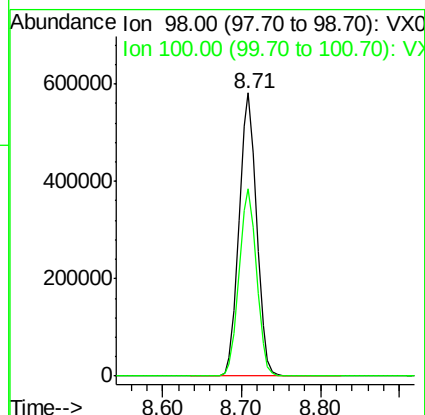
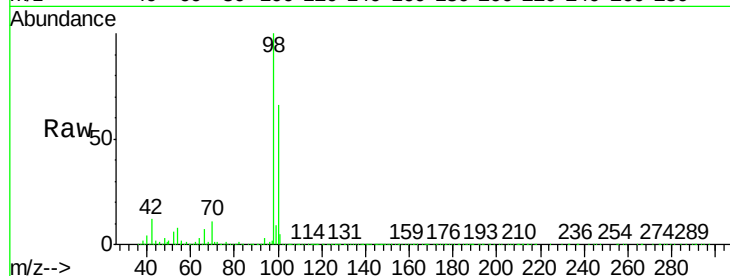
VX0113WBL01

Tgt Ion: 98 Resp: 902191

Ion Ratio Lower Upper

98 100

100 66.1 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 0.449 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX014577.D

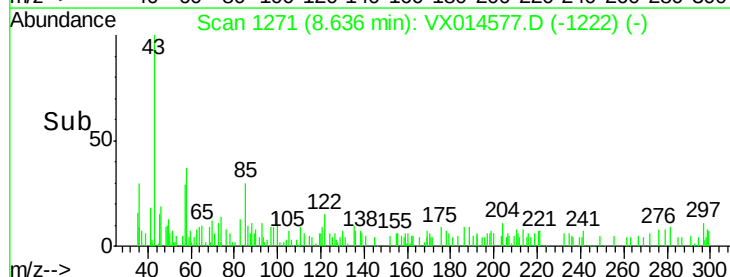
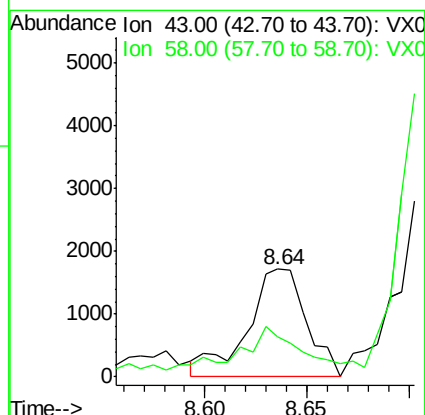
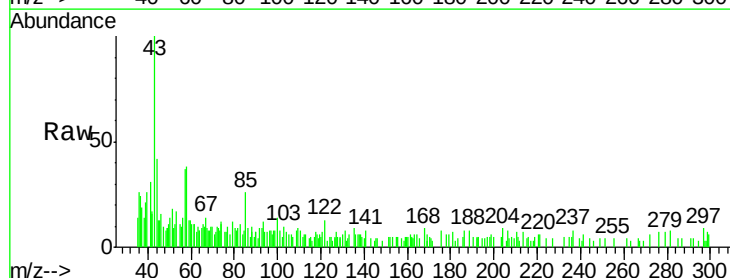
Acq: 13 Jan 2020 11:13

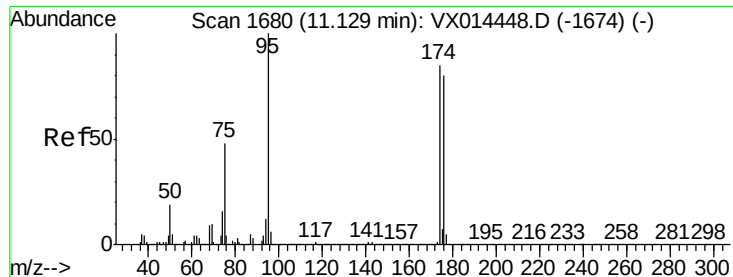
Tgt Ion: 43 Resp: 3443

Ion Ratio Lower Upper

43 100

58 45.9 32.4 48.6





#62

4-Bromofluorobenzene

Concen: 46.410 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

Instrument :

MSVOA\_X

ClientSampleId :

VX0113WBL01

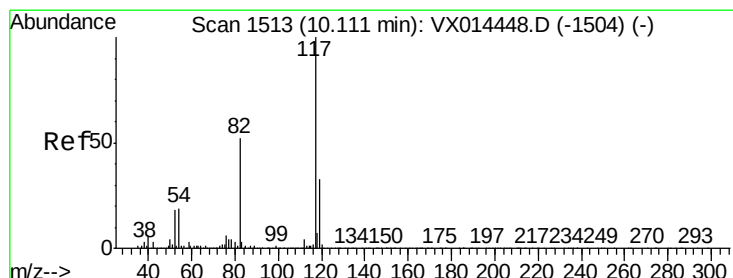
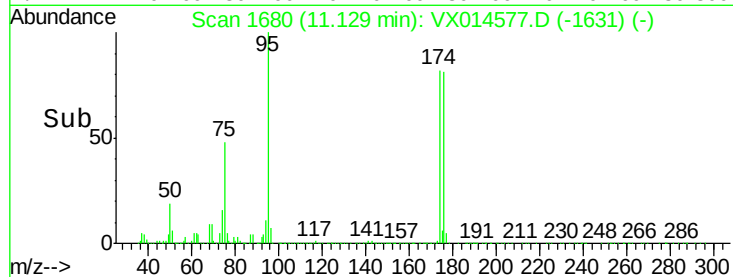
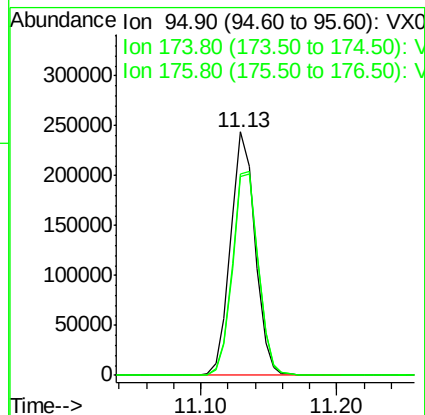
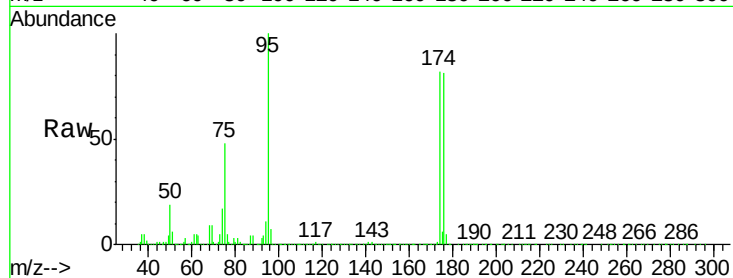
Tgt Ion: 95 Resp: 305178

Ion Ratio Lower Upper

95 100

174 88.9 0.0 180.8

176 87.3 0.0 172.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

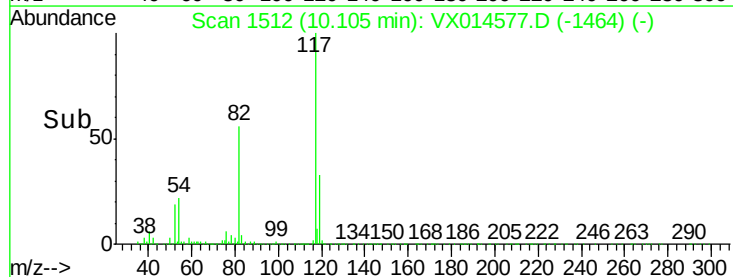
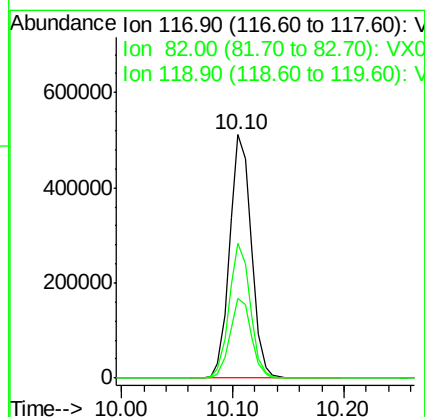
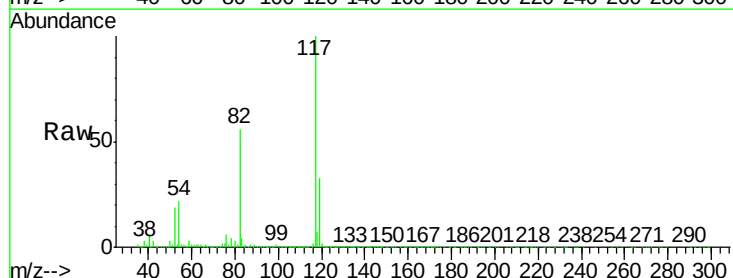
Tgt Ion: 117 Resp: 685386

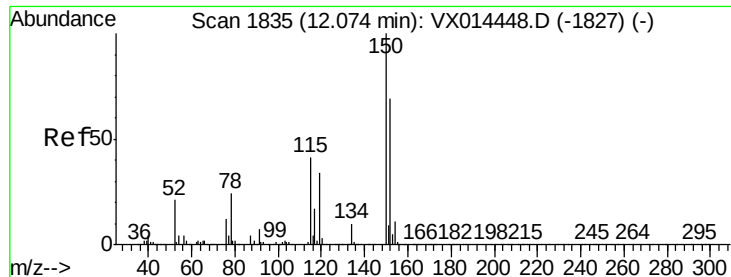
Ion Ratio Lower Upper

117 100

82 55.6 41.8 62.6

119 32.6 26.2 39.4



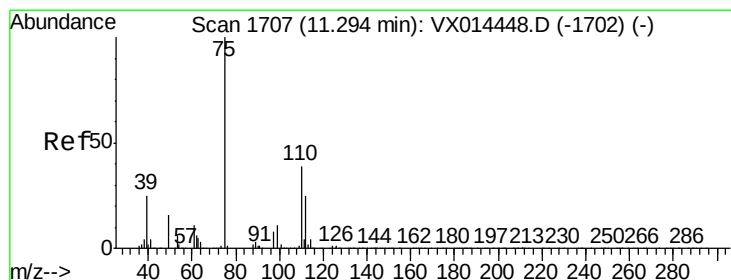
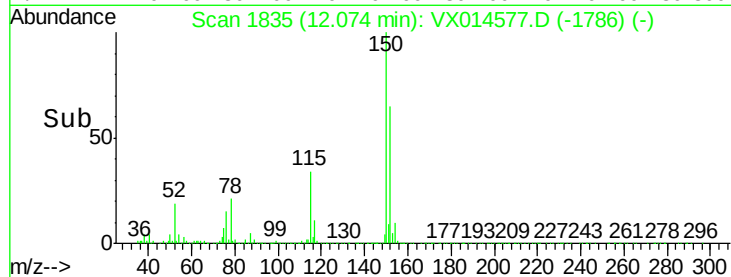
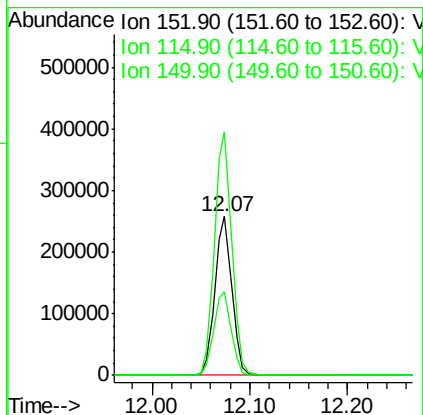
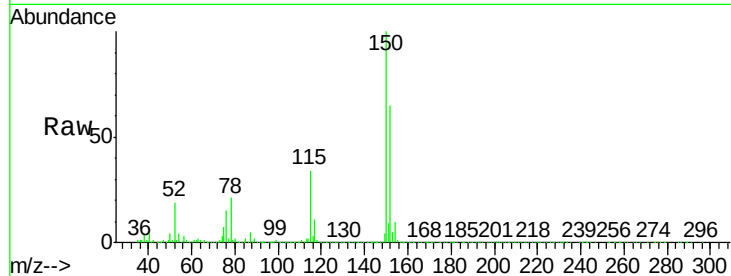


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX014577.D  
Acq: 13 Jan 2020 11:13

Instrument :  
MSVOA\_X  
ClientSampled :  
VX0113WBL01

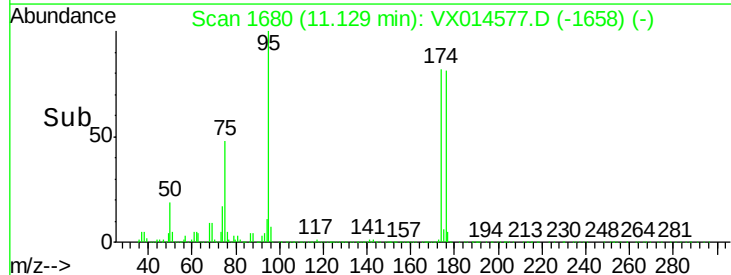
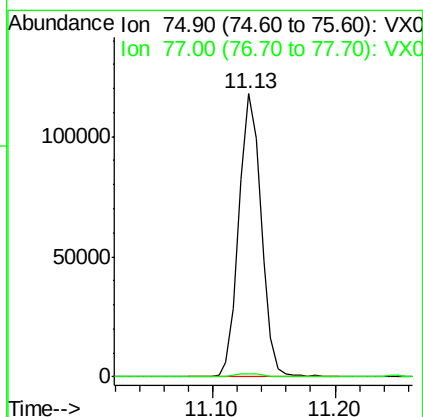
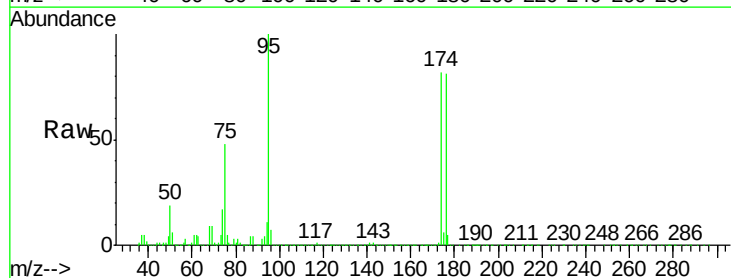
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.1  | 39.5  | 118.3 |
| 150     | 155.9 | 0.0   | 350.2 |

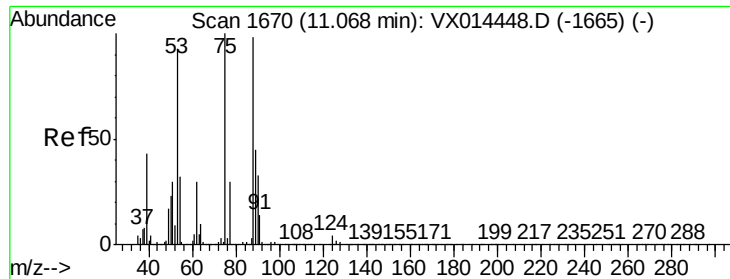


#76

1,2,3-Trichloropropane  
Concen: 23.072 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. -0.16 min  
Lab File: VX014577.D  
Acq: 13 Jan 2020 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.4   | 21.9  | 65.7# |





#81

trans-1,4-Dichloro-2-butene

Concen: 60.998 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

Instrument :

MSVOA\_X

ClientSampleId :

VX0113WBL01

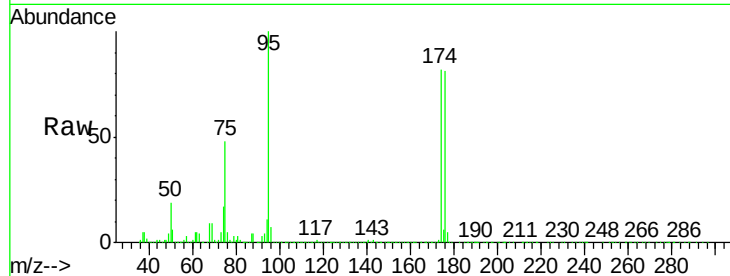
Tgt Ion: 75 Resp: 148063

Ion Ratio Lower Upper

75 100

53 0.1 74.8 112.2#

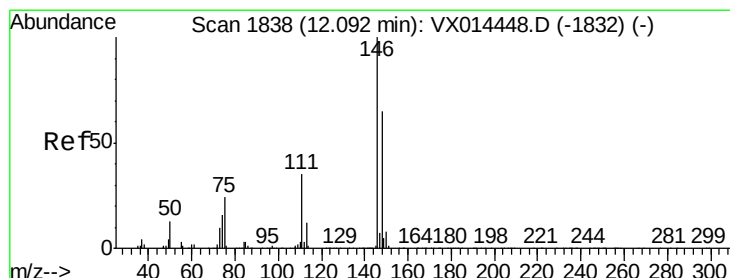
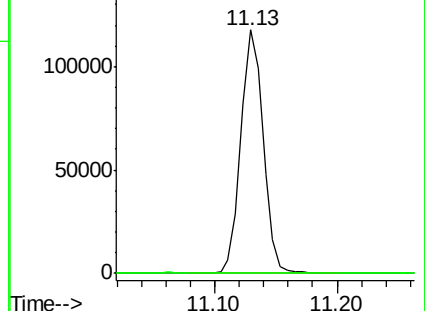
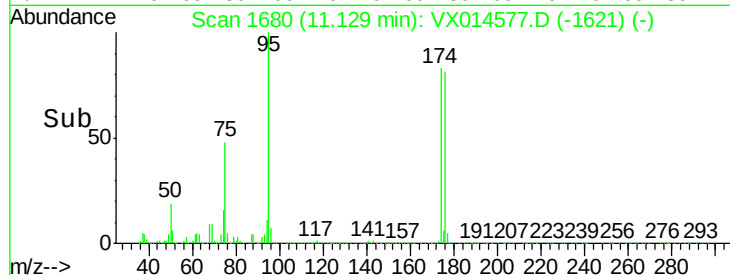
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.02 min Scan# 1826

Delta R.T. -0.07 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

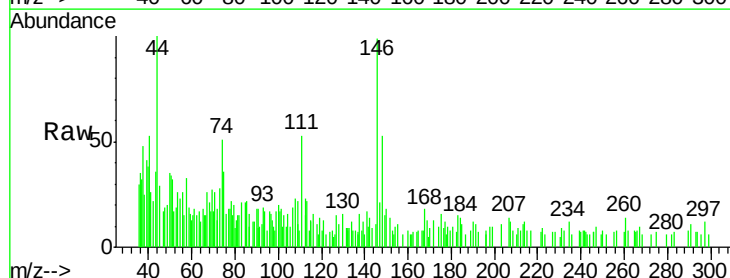
Tgt Ion: 146 Resp: 1587

Ion Ratio Lower Upper

146 100

111 45.6 18.1 54.1

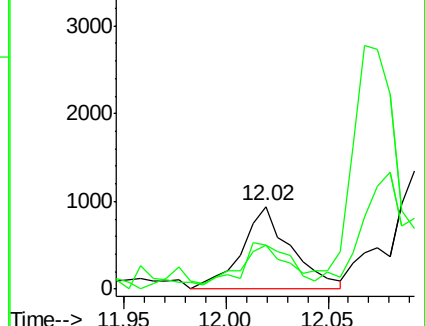
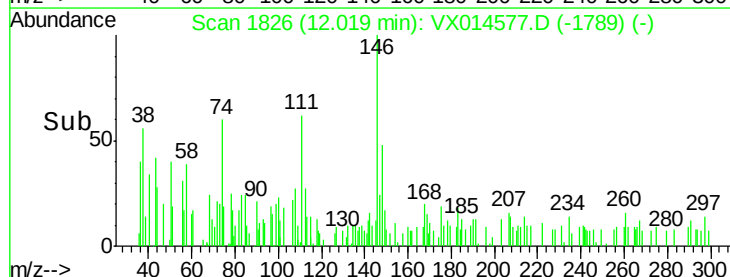
148 51.7 32.1 96.3

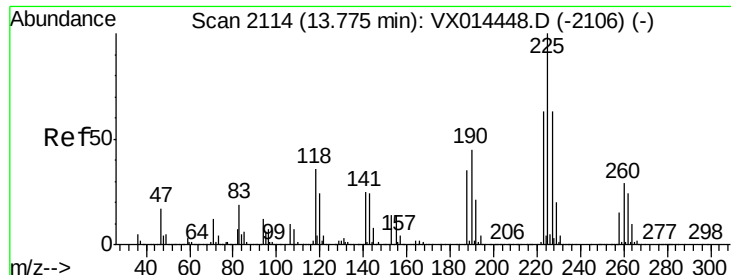


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#94

Hexachlorobutadiene

Concen: 0.247 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX014577.D

Acq: 13 Jan 2020 11:13

Instrument :

MSVOA\_X

ClientSampleId :

VX0113WBL01

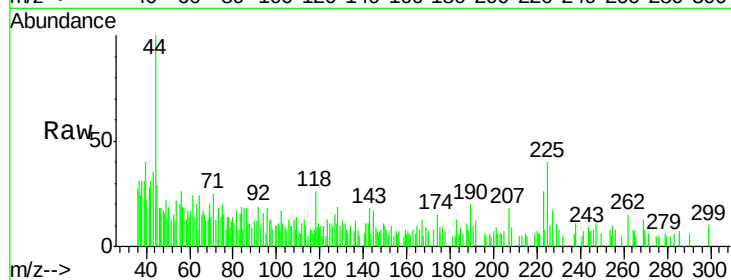
Tgt Ion: 225 Resp: 648

Ion Ratio Lower Upper

225 100

223 71.0 31.1 93.2

227 51.9 31.4 94.2



Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

