

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\  
 Data File : VX014057.D  
 Acq On : 17 Dec 2019 17:23  
 Operator : JC/SP  
 Sample : K6251-12  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW201D1-20191207

Quant Time: Dec 18 07:14:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 569149   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 882940   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 785377   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 325995   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 317955   | 49.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.58%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 263740   | 49.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.28%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1048284  | 50.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.34% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 341875   | 44.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.52%  |          |

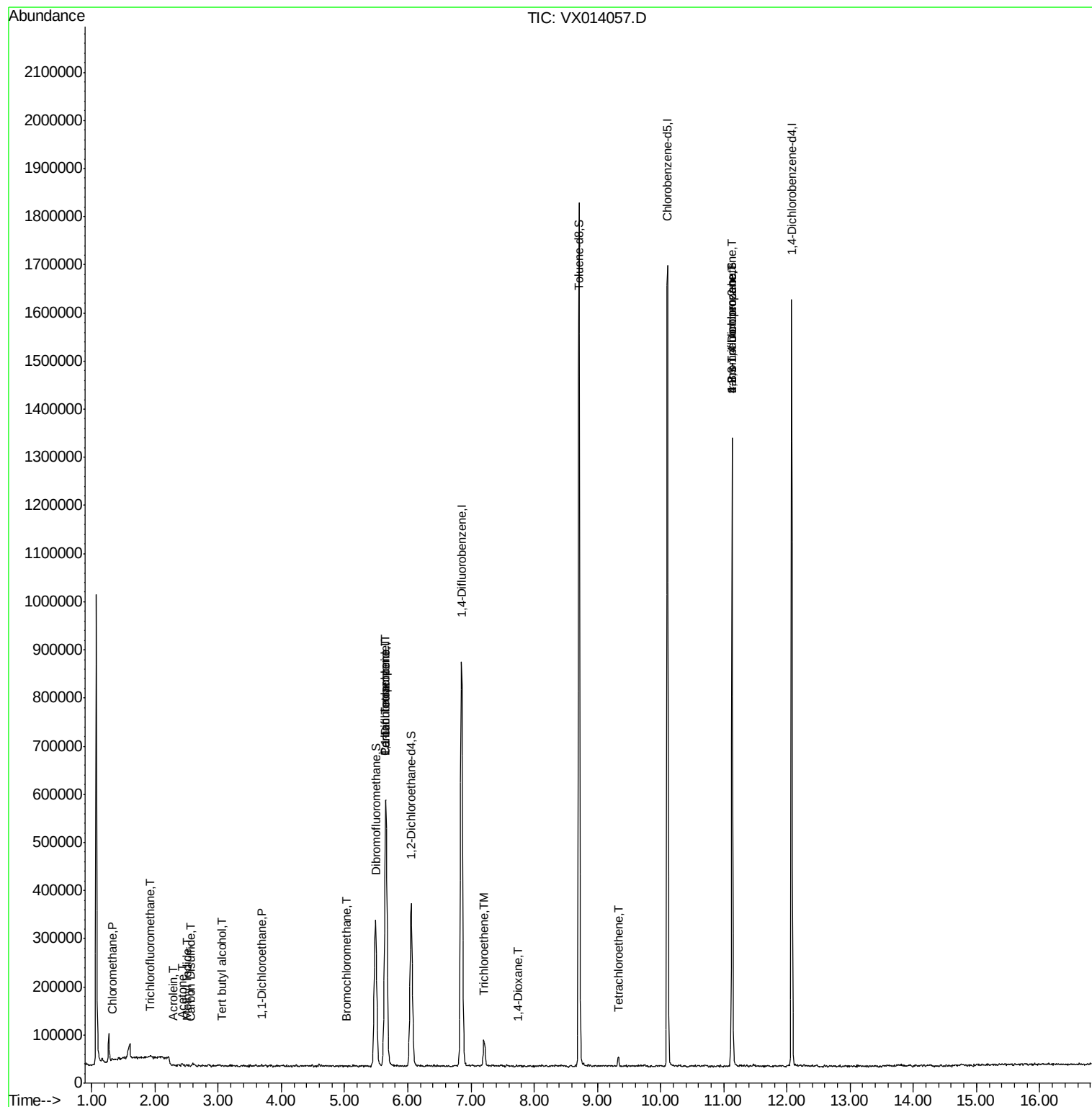
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 2494     | 0.365  | ug/l # | 79     |
| 7) Trichlorofluoromethane      | 1.92  | 101  | 1907     | 0.214  | ug/l # | 71     |
| 10) Methyl Iodide              | 2.51  | 142  | 977      | 2.751  | ug/l # | 38     |
| 11) Tert butyl alcohol         | 3.07  | 59   | 416      | 0.298  | ug/l # | 6      |
| 13) Acrolein                   | 2.30  | 56   | 629      | 0.788  | ug/l # | 14     |
| 16) Acetone                    | 2.43  | 43   | 6062     | 1.448  | ug/l   | 94     |
| 17) Carbon Disulfide           | 2.56  | 76   | 1481     | 0.846  | ug/l # | 19     |
| 24) 1,1-Dichloroethane         | 3.69  | 63   | 2956     | 0.273  | ug/l # | 85     |
| 28) Bromochloromethane         | 5.03  | 49   | 792      | 0.642  | ug/l # | 95     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 39382    | 4.861  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 49733    | 6.739  | ug/l # | 16     |
| 44) Trichloroethene            | 7.20  | 130  | 24470    | 3.554  | ug/l   | 93     |
| 49) 1,4-Dioxane                | 7.75  | 88   | 479      | 3.247  | ug/l # | 73     |
| 64) Tetrachloroethene          | 9.34  | 164  | 4840     | 0.696  | ug/l   | 91     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 169352   | 23.929 | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 169352   | 67.540 | ug/l # | 11     |

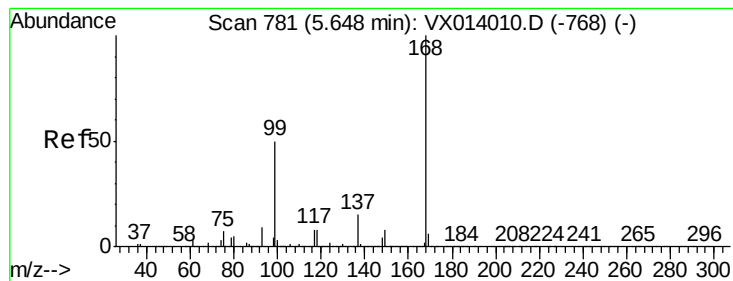
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121719\  
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Quant Time: Dec 18 07:14:31 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 17 03:01:07 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014057.D

Acq: 17 Dec 2019 17:23

Instrument :

MSVOA\_X

ClientSampleId :

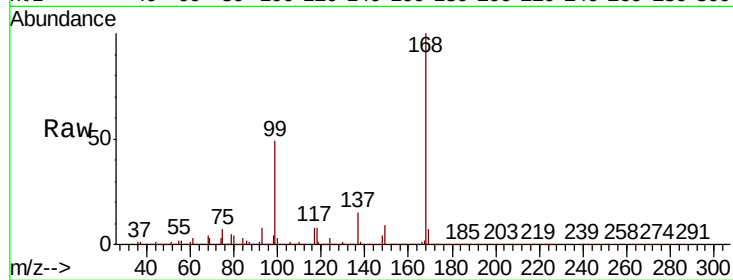
MW201D1-20191207

Tot Ion:168 Resp: 569149

Ion Ratio Lower Upper

168 100

99 48.6 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

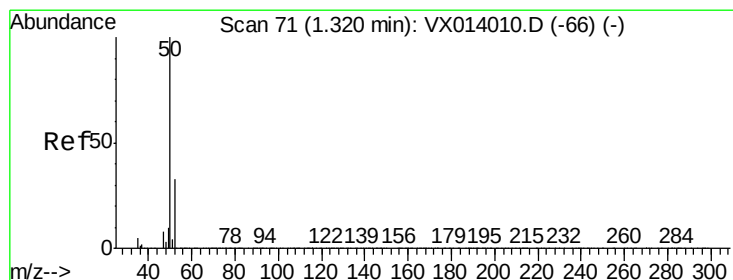
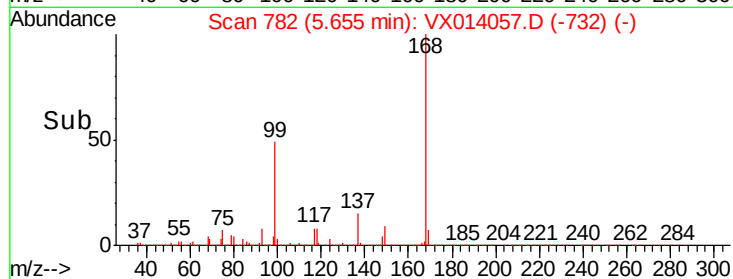
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.365 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014057.D

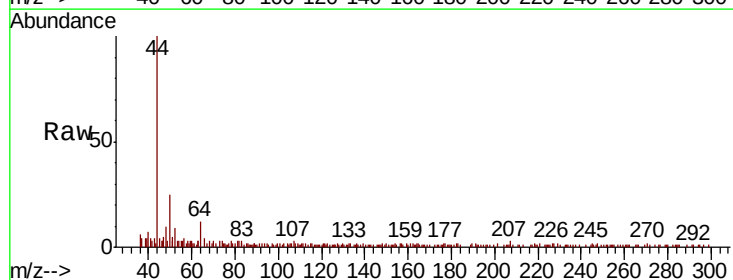
Acq: 17 Dec 2019 17:23

Tgt Ion: 50 Resp: 2494

Ion Ratio Lower Upper

50 100

52 21.1 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2500

2000

1500

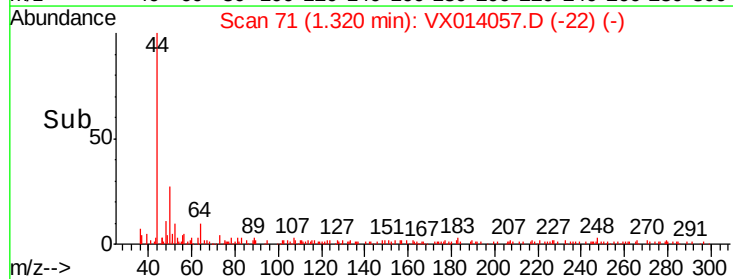
1000

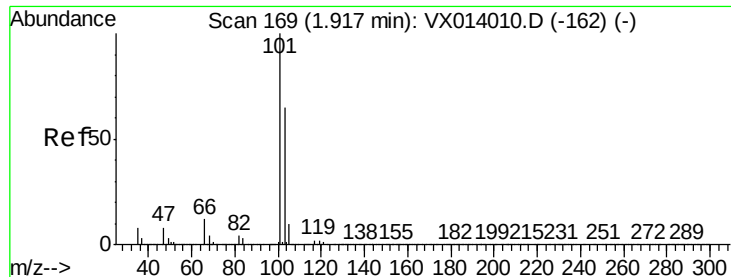
500

0

Time-->

1.30 1.32 1.34



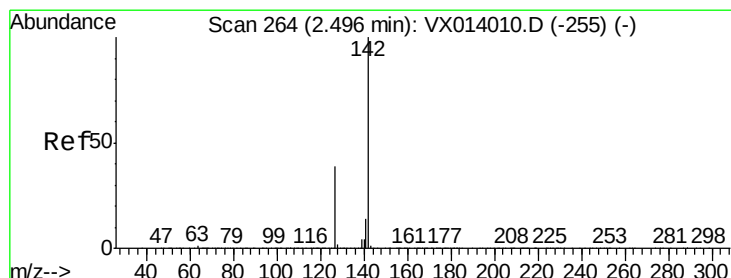
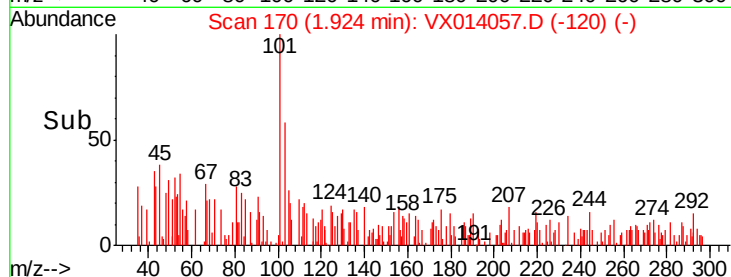
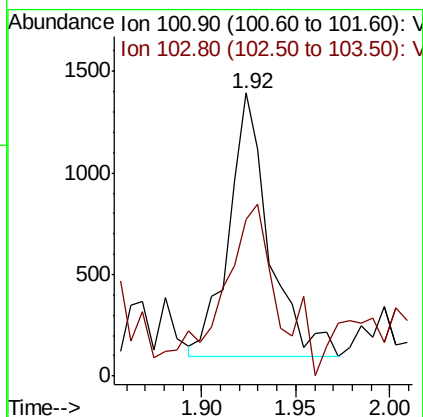
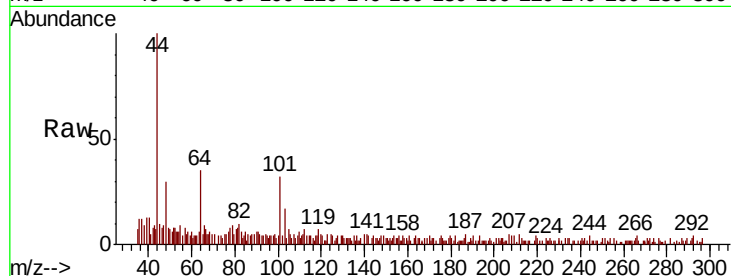


#7

Trichlorofluoromethane  
 Concen: 0.214 ug/l  
 RT: 1.92 min Scan# 170  
 Delta R.T. 0.01 min  
 Lab File: VX014057.D  
 Acq: 17 Dec 2019 17:23

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW201D1-20191207

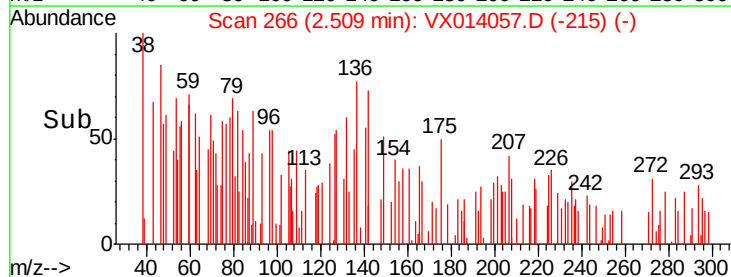
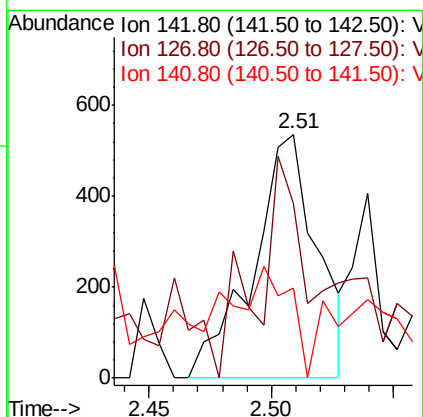
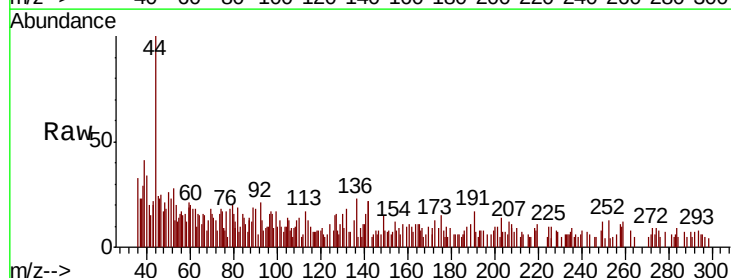
Tot Ion:101 Resp: 1907  
 Ion Ratio Lower Upper  
 101 100  
 103 42.4 52.2 78.4#

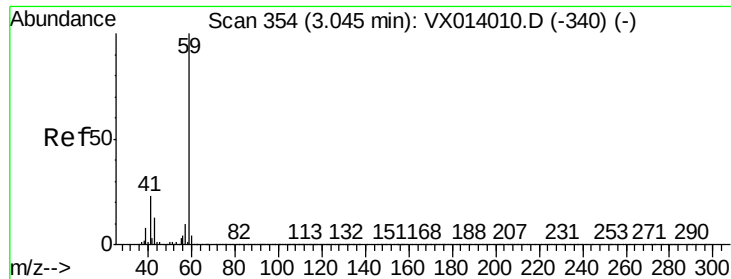


#10

Methyl Iodide  
 Concen: 2.751 ug/l  
 RT: 2.51 min Scan# 266  
 Delta R.T. 0.01 min  
 Lab File: VX014057.D  
 Acq: 17 Dec 2019 17:23

Tgt Ion:142 Resp: 977  
 Ion Ratio Lower Upper  
 142 100  
 127 66.7 31.6 47.4#  
 141 59.7 11.6 17.4#



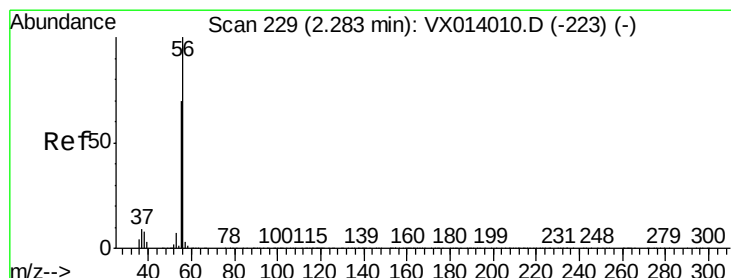
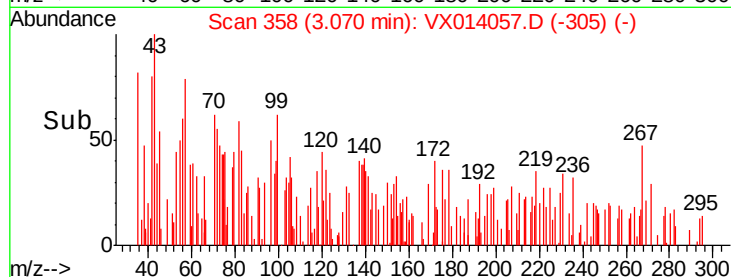
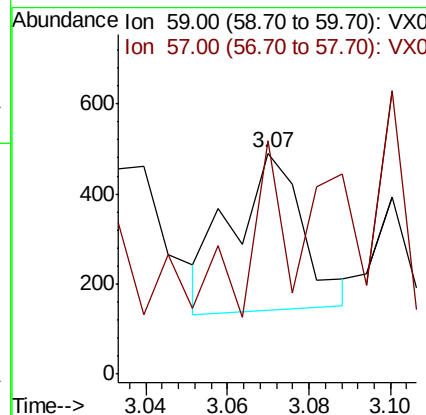
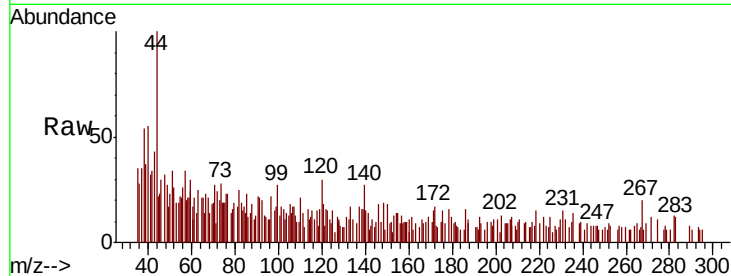


#11

Tert butyl alcohol  
 Concen: 0.298 ug/l  
 RT: 3.07 min Scan# 358  
 Delta R.T. 0.02 min  
 Lab File: VX014057.D  
 Acq: 17 Dec 2019 17:23

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW201D1-20191207

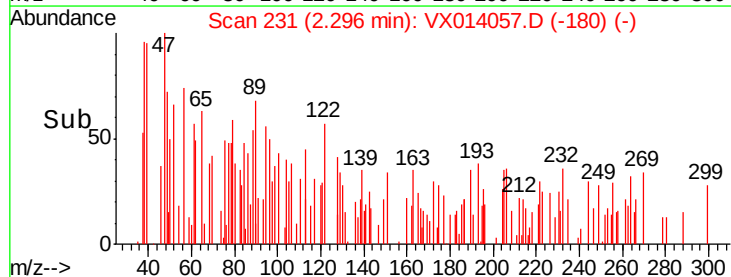
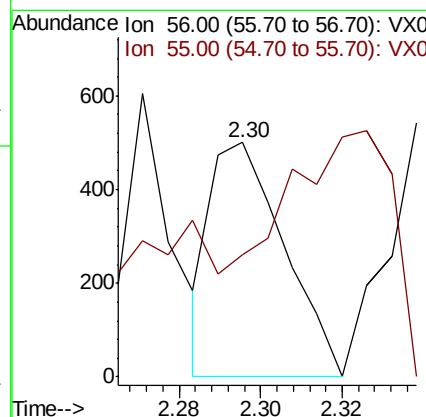
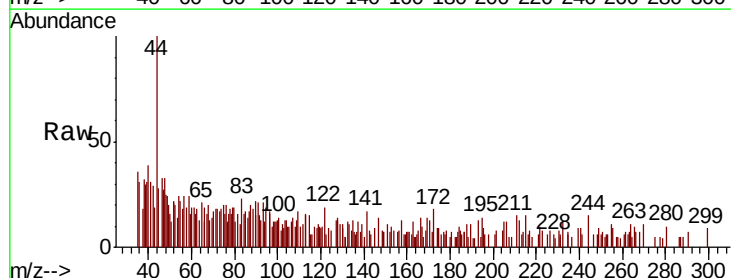
Tot Ion: 59 Resp: 416  
 Ion Ratio Lower Upper  
 59 100  
 57 45.7 8.4 12.6#

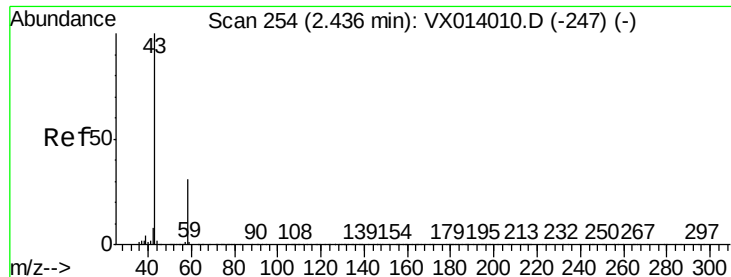


#13

Acrolein  
 Concen: 0.788 ug/l  
 RT: 2.30 min Scan# 231  
 Delta R.T. 0.01 min  
 Lab File: VX014057.D  
 Acq: 17 Dec 2019 17:23

Tgt Ion: 56 Resp: 629  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 56.9 85.3#

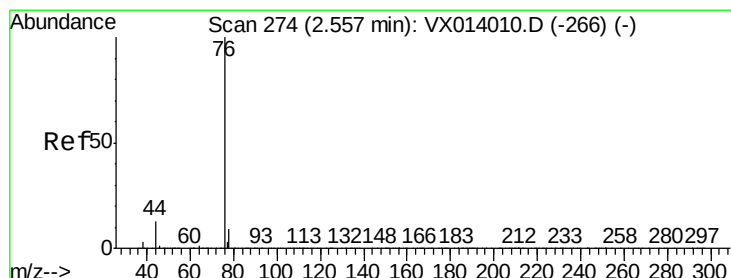
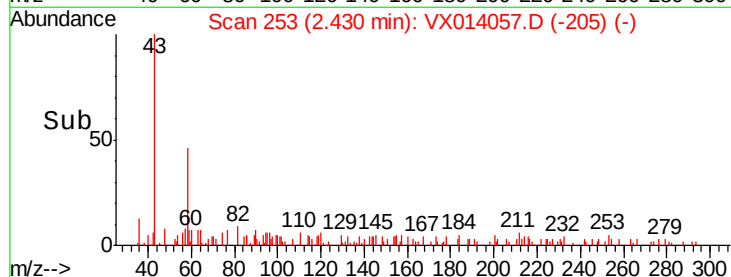
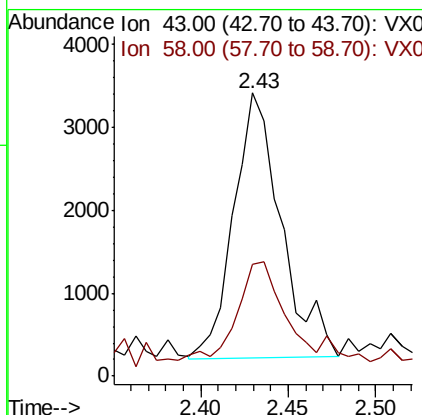
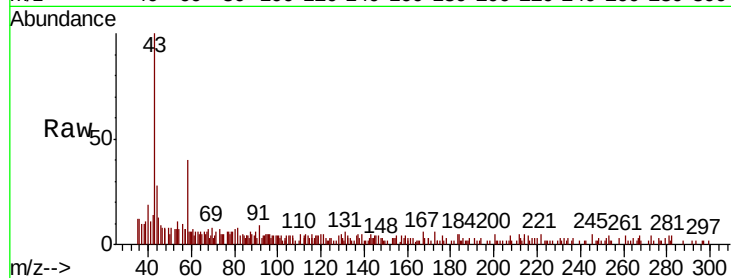




#16  
Acetone  
Concen: 1.448 ug/l  
RT: 2.43 min Scan# 253  
Delta R.T. -0.01 min  
Lab File: VX014057.D  
Acq: 17 Dec 2019 17:23

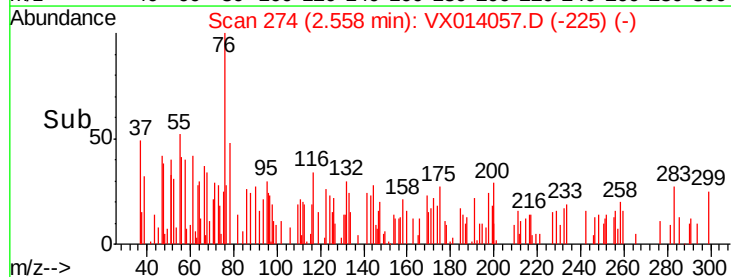
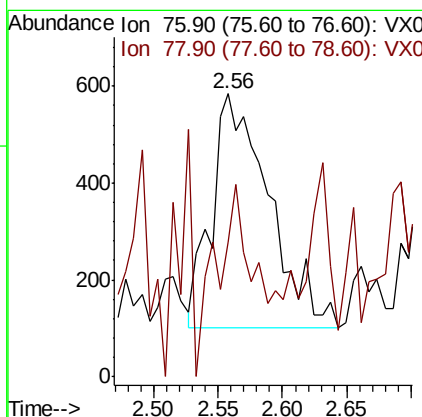
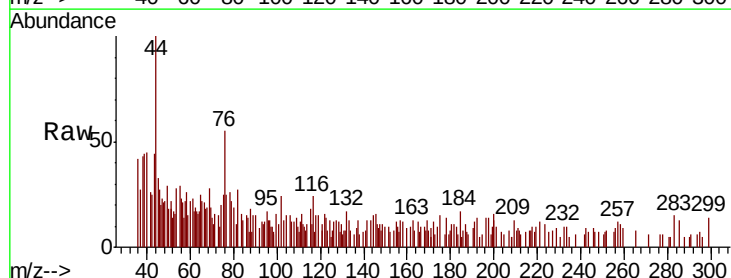
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW201D1-20191207

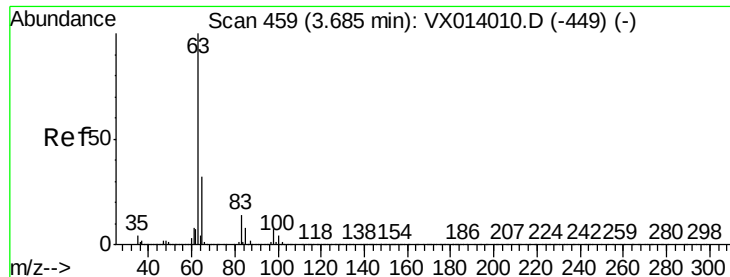
Tot Ion: 43 Resp: 6062  
Ion Ratio Lower Upper  
43 100  
58 34.5 24.9 37.3



#17  
Carbon Disulfide  
Concen: 0.846 ug/l  
RT: 2.56 min Scan# 274  
Delta R.T. 0.00 min  
Lab File: VX014057.D  
Acq: 17 Dec 2019 17:23

Tgt Ion: 76 Resp: 1481  
Ion Ratio Lower Upper  
76 100  
78 38.2 7.2 10.8#





#24

1,1-Dichloroethane

Concen: 0.273 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX014057.D

Acq: 17 Dec 2019 17:23

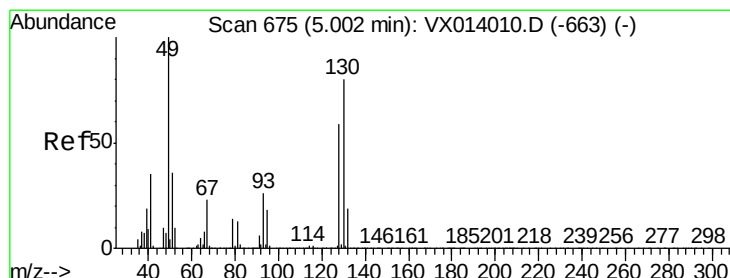
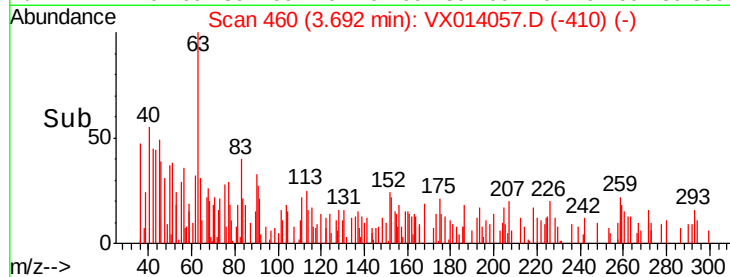
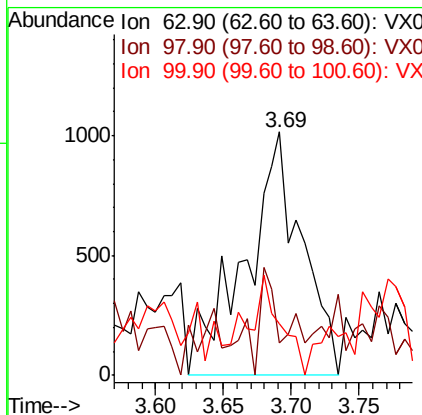
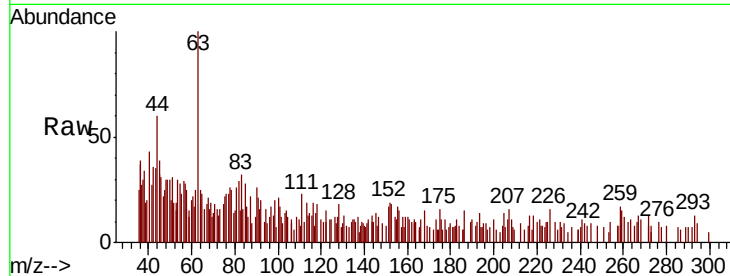
Instrument :

MSVOA\_X

ClientSampleId :

MW201D1-20191207

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 2956  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 0.0   | 3.6   | 10.8# |
| 100      | 6.2   | 2.3   | 6.8   |



#28

Bromochloromethane

Concen: 0.642 ug/l

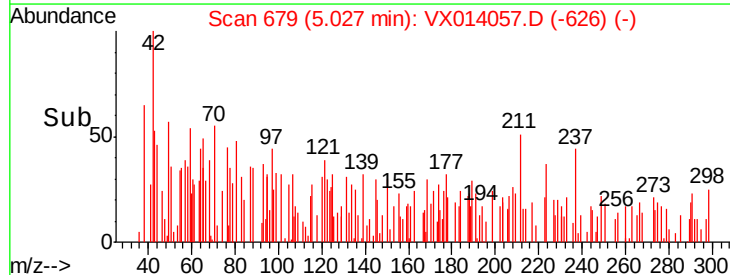
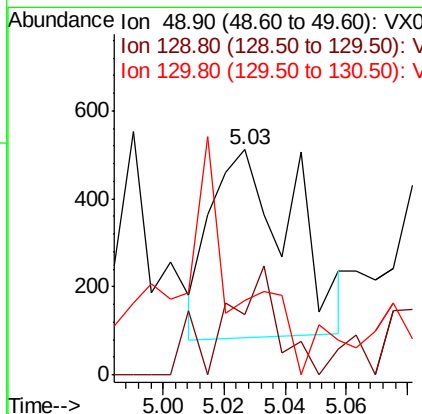
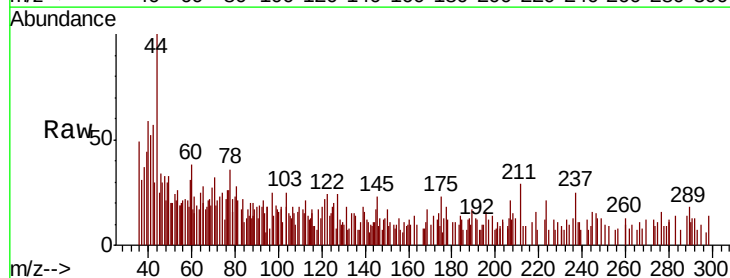
RT: 5.03 min Scan# 679

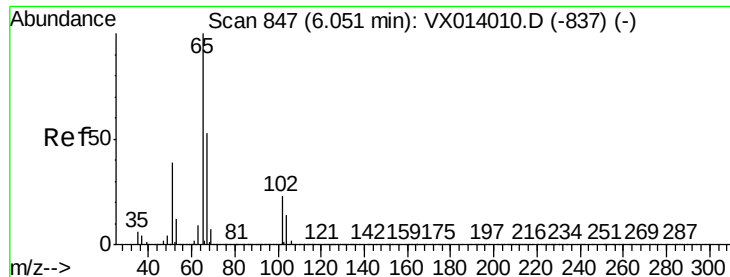
Delta R.T. 0.02 min

Lab File: VX014057.D

Acq: 17 Dec 2019 17:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 49    | Resp: | 792   |
| Ion      | Ratio | Lower | Upper |
| 49       | 100   |       |       |
| 129      | 37.9  | 0.0   | 5.0#  |
| 130      | 82.6  | 64.6  | 97.0  |

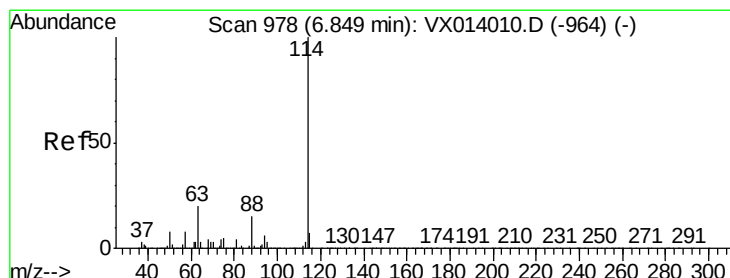
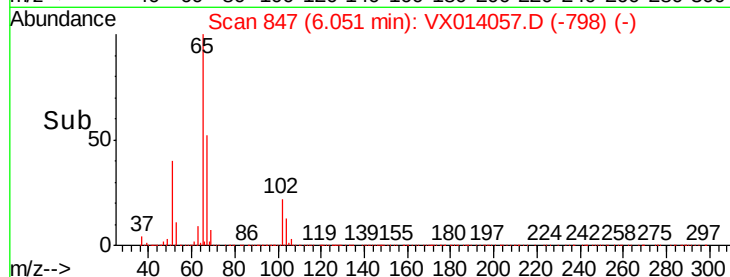
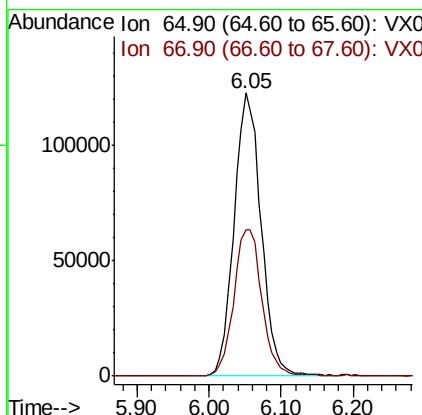
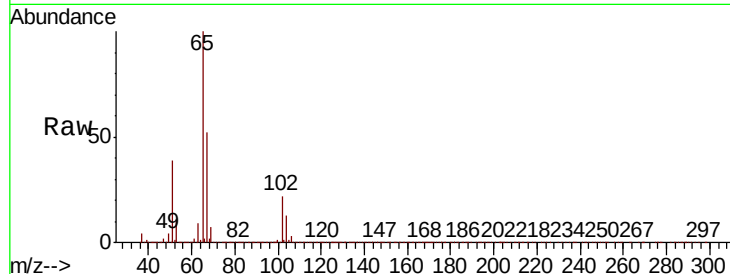




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.291 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. 0.00 min  
 Lab File: VX014057.D  
 Acq: 17 Dec 2019 17:23

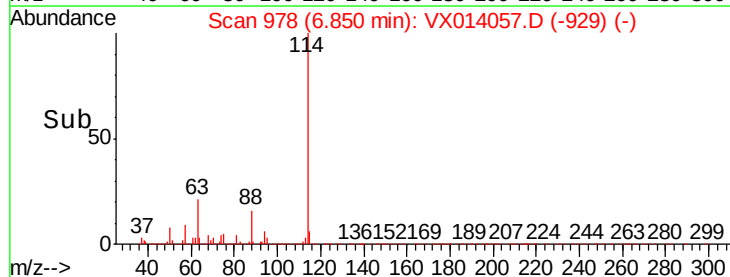
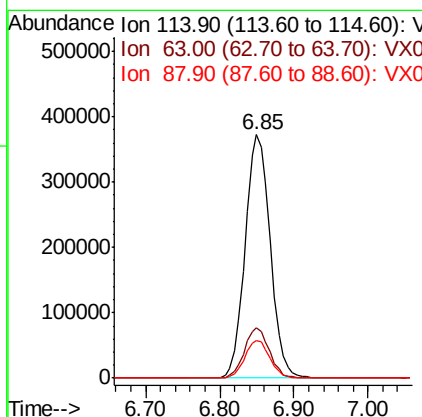
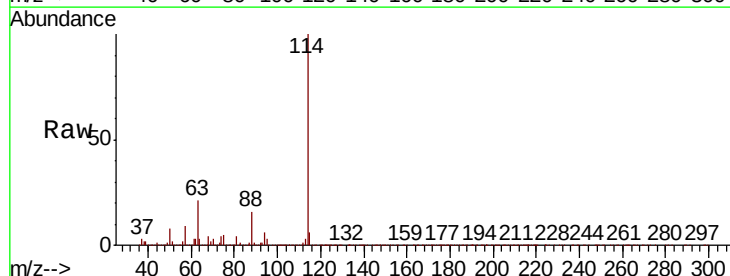
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW201D1-20191207

Tot Ion: 65 Resp: 317955  
 Ion Ratio Lower Upper  
 65 100  
 67 53.4 0.0 106.4

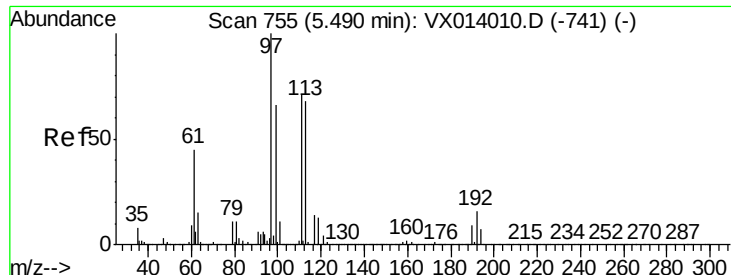


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX014057.D  
 Acq: 17 Dec 2019 17:23

Tgt Ion: 114 Resp: 882940  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 40.8  
 88 15.6 0.0 30.4







#35

Dibromofluoromethane

Concen: 49.138 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014057.D

Acq: 17 Dec 2019 17:23

Instrument :

MSVOA\_X

ClientSampleId :

MW201D1-20191207

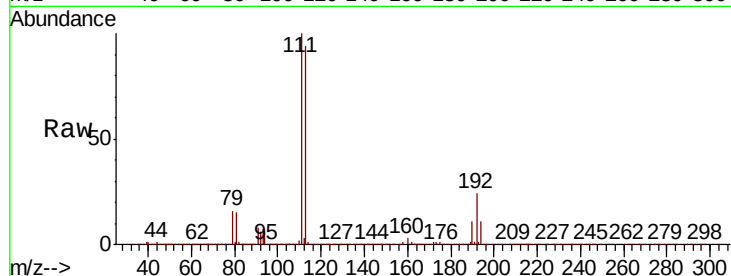
Tot Ion:113 Resp: 263740

Ion Ratio Lower Upper

113 100

111 103.3 82.0 123.0

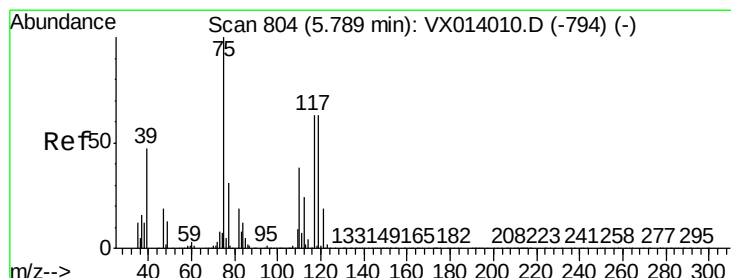
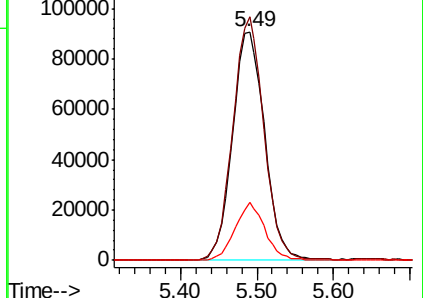
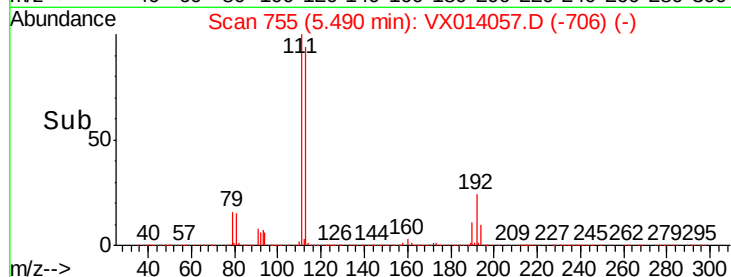
192 23.7 19.3 28.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.861 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014057.D

Acq: 17 Dec 2019 17:23

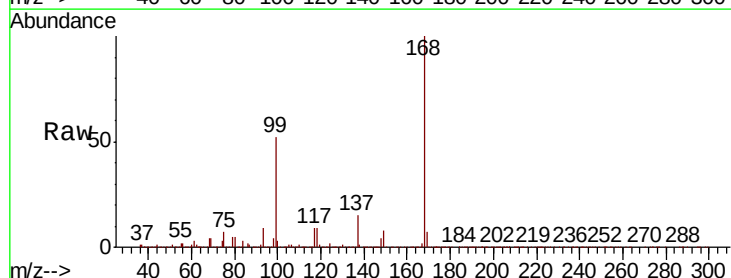
Tgt Ion: 75 Resp: 39382

Ion Ratio Lower Upper

75 100

110 10.5 18.3 54.9#

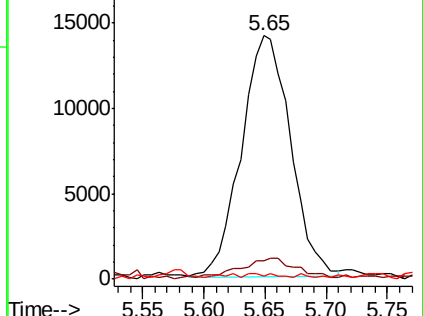
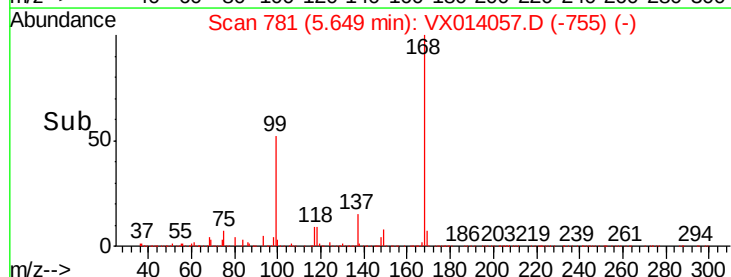
77 1.0 24.8 37.2#

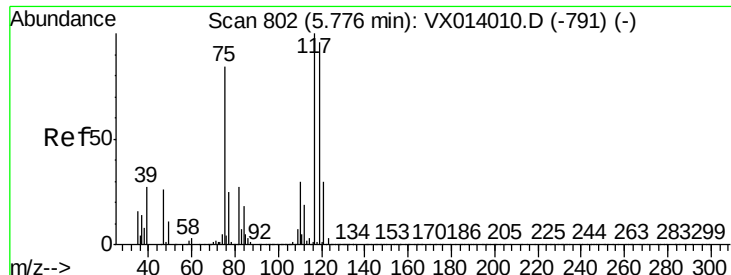


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

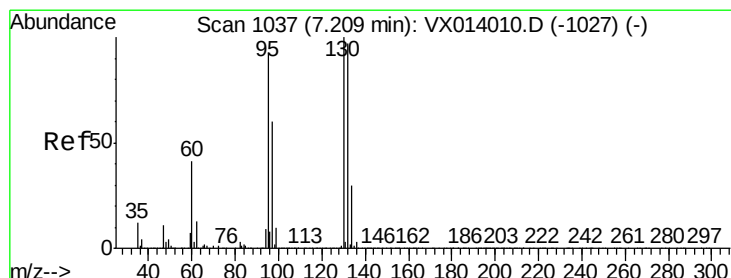
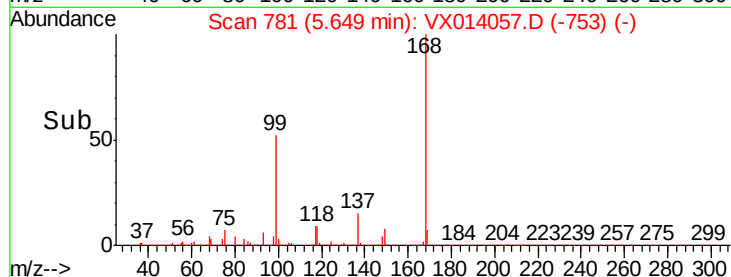
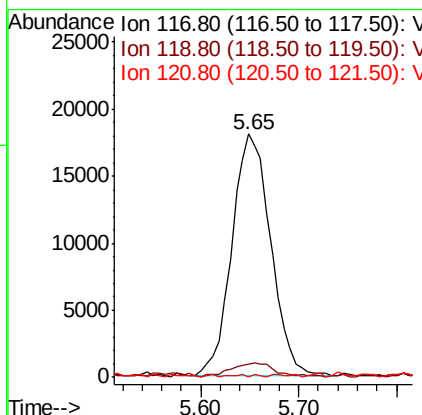
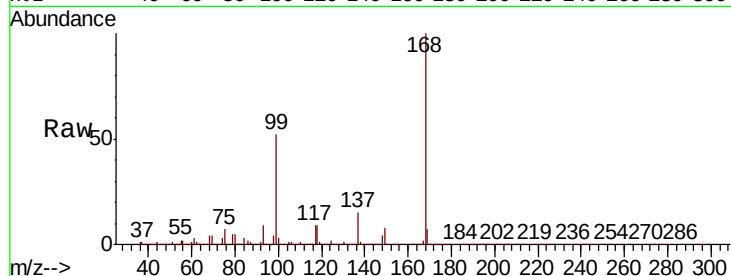




#38  
Carbon Tetrachloride  
Concen: 6.739 ug/l  
RT: 5.65 min Scan# 781  
Delta R.T. -0.13 min  
Lab File: VX014057.D  
Acq: 17 Dec 2019 17:23

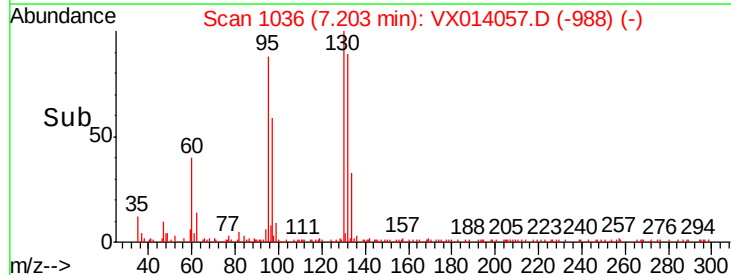
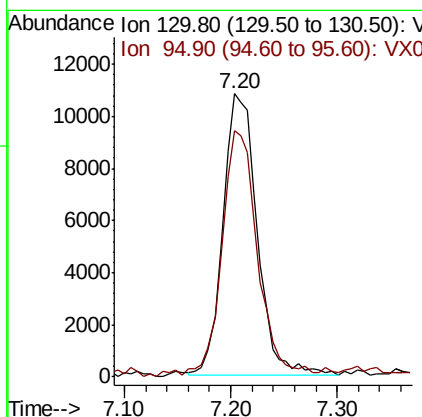
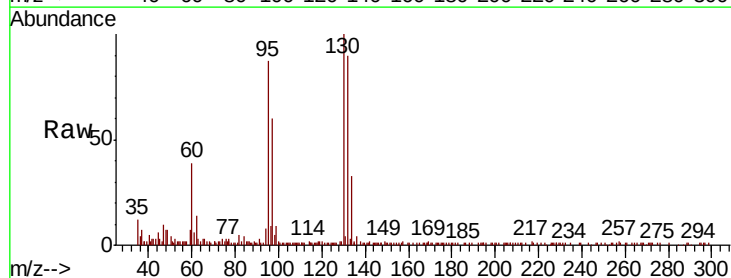
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW201D1-20191207

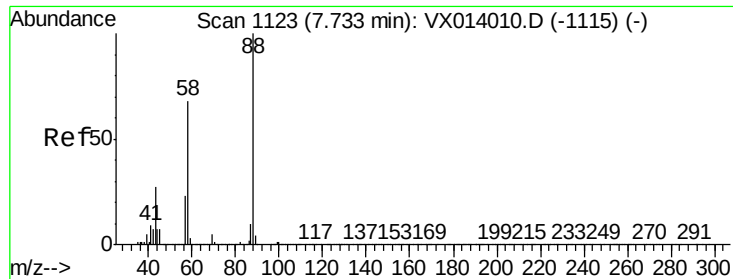
Tot Ion:117 Resp: 49733  
Ion Ratio Lower Upper  
117 100  
119 4.8 76.2 114.4#  
121 0.0 23.6 35.4#



#44  
Trichloroethene  
Concen: 3.554 ug/l  
RT: 7.20 min Scan# 1036  
Delta R.T. -0.01 min  
Lab File: VX014057.D  
Acq: 17 Dec 2019 17:23

Tgt Ion:130 Resp: 24470  
Ion Ratio Lower Upper  
130 100  
95 86.1 0.0 185.6

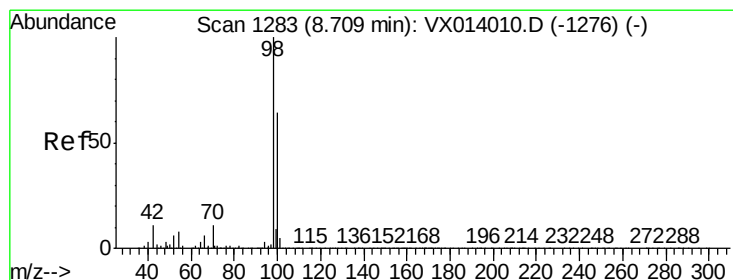
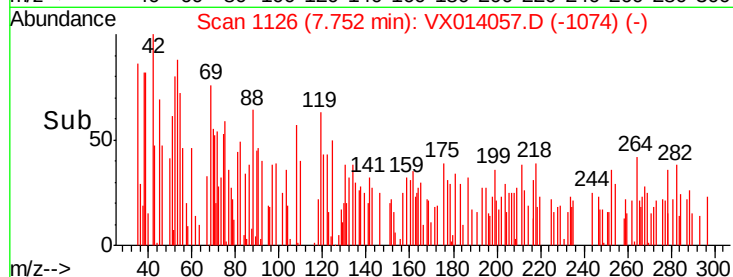
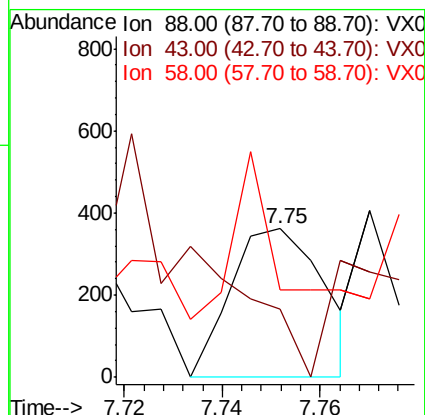
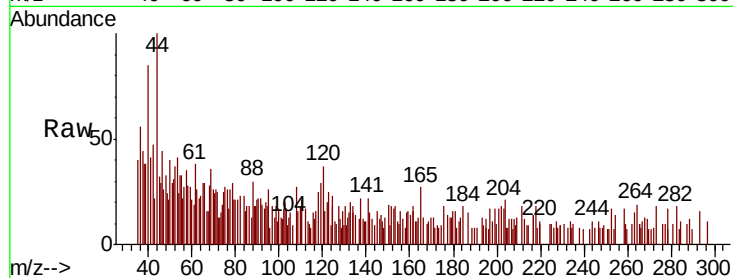




#49  
1,4-Dioxane  
Concen: 3.247 ug/l  
RT: 7.75 min Scan# 1126  
Delta R.T. 0.02 min  
Lab File: VX014057.D  
Acq: 17 Dec 2019 17:23

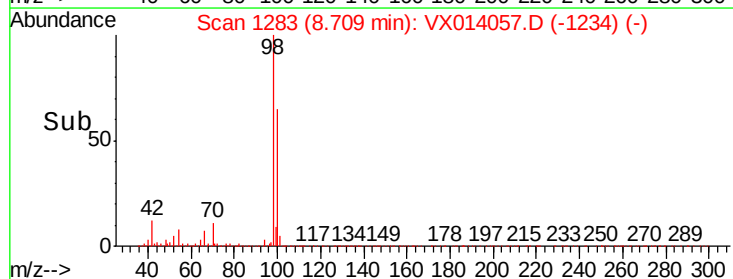
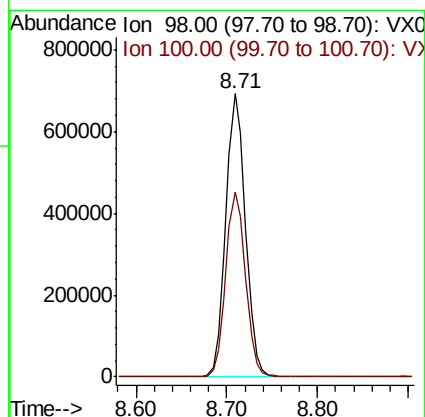
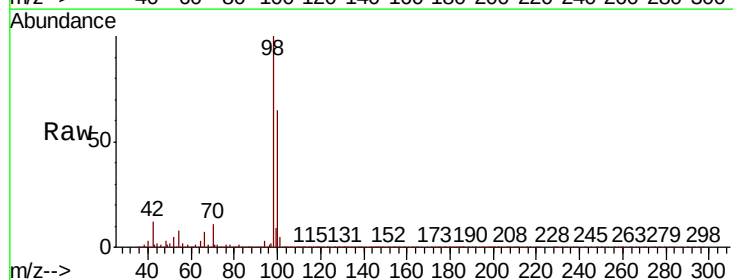
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW201D1-20191207

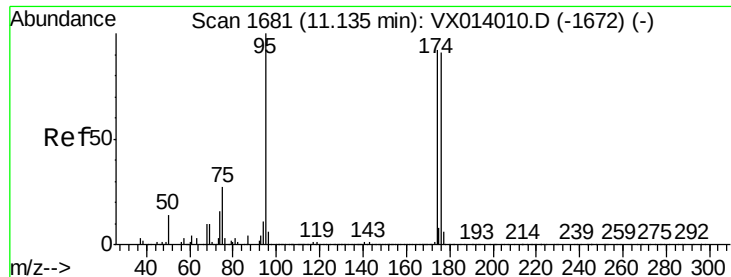
Tot Ion: 88 Resp: 479  
Ion Ratio Lower Upper  
88 100  
43 0.0 26.5 39.7#  
58 60.3 56.8 85.2



#50  
Toluene-d8  
Concen: 50.166 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX014057.D  
Acq: 17 Dec 2019 17:23

Tgt Ion: 98 Resp: 1048284  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.9 79.3





#62

4-Bromofluorobenzene

Concen: 44.757 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014057.D

Acq: 17 Dec 2019 17:23

Instrument :

MSVOA\_X

ClientSampleId :

MW201D1-20191207

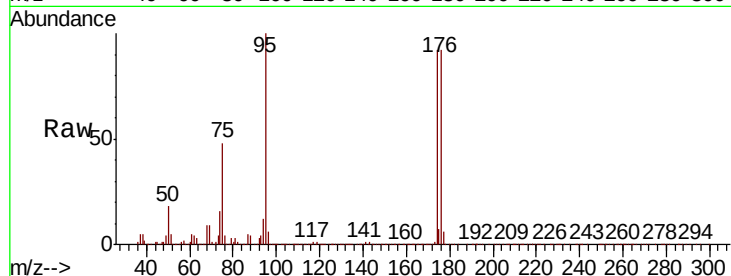
Tot Ion: 95 Resp: 341875

Ion Ratio Lower Upper

95 100

174 88.5 0.0 175.8

176 86.1 0.0 173.0

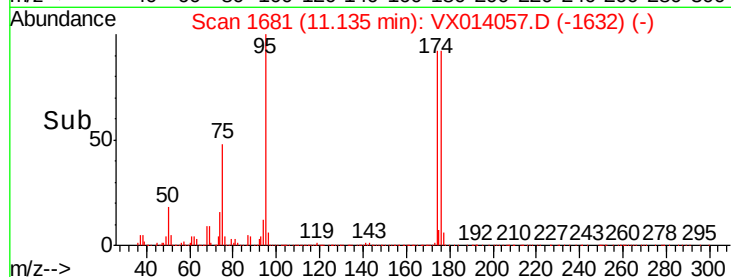


Abundance Ion 94.90 (94.60 to 95.60): VX014057.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX014057.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX014057.D (-1632) (-)

Time-->



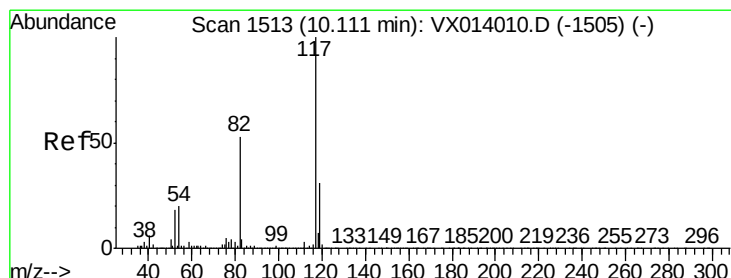
Abundance

Ion 94.90 (94.60 to 95.60): VX014057.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX014057.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX014057.D (-1632) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014057.D

Acq: 17 Dec 2019 17:23

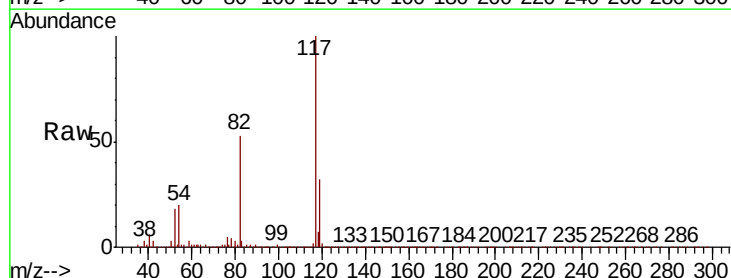
Tgt Ion: 117 Resp: 785377

Ion Ratio Lower Upper

117 100

82 53.3 42.2 63.4

119 32.0 25.1 37.7

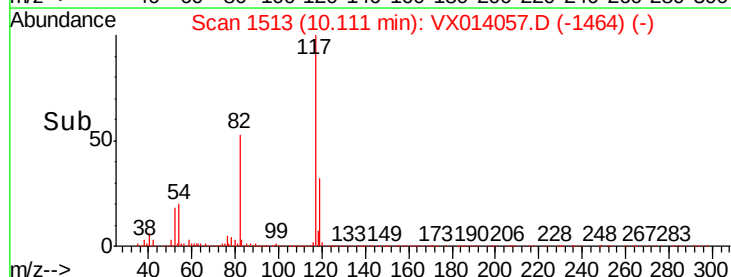


Abundance Ion 116.90 (116.60 to 117.60): VX014057.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX014057.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX014057.D (-1464) (-)

Time-->



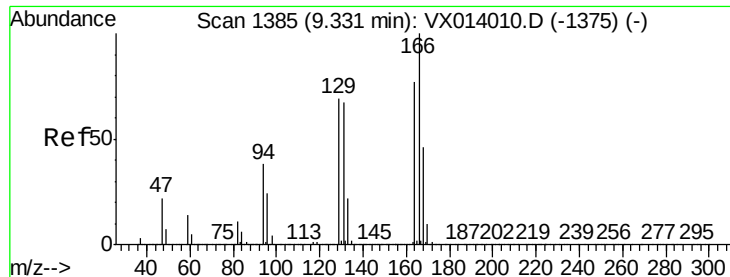
Abundance

Ion 116.90 (116.60 to 117.60): VX014057.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX014057.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX014057.D (-1464) (-)

Time-->



#64

Tetrachloroethene

Concen: 0.696 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX014057.D

Acq: 17 Dec 2019 17:23

Instrument :

MSVOA\_X

ClientSampleId :

MW201D1-20191207

Tot Ion:164 Resp: 4840

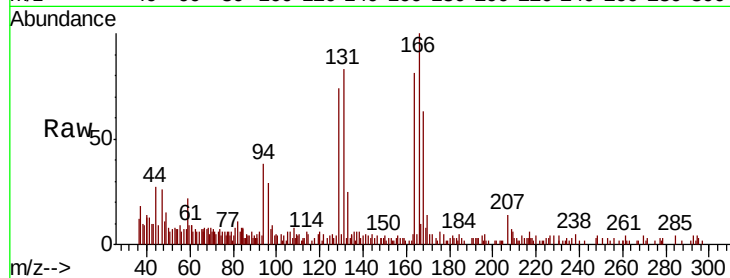
Ion Ratio Lower Upper

164 100

166 118.6 104.0 156.0

129 85.8 72.2 108.4

131 96.8 69.6 104.4

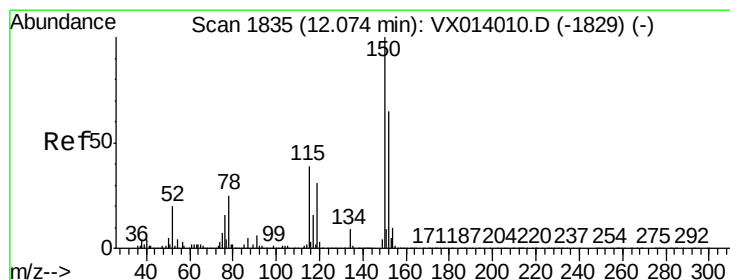
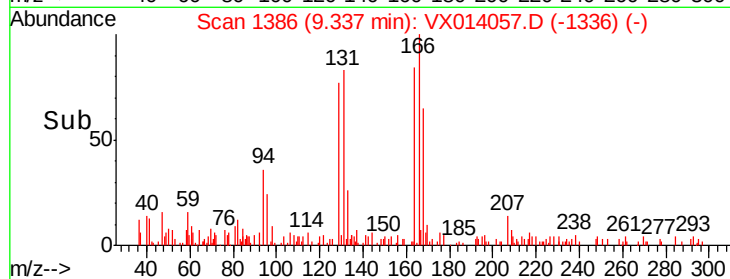
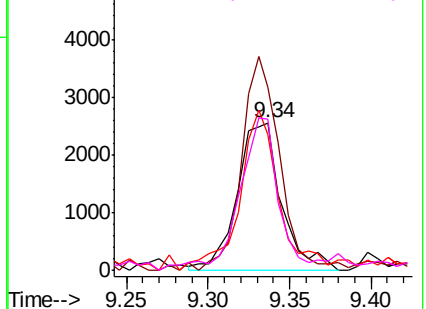


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014057.D

Acq: 17 Dec 2019 17:23

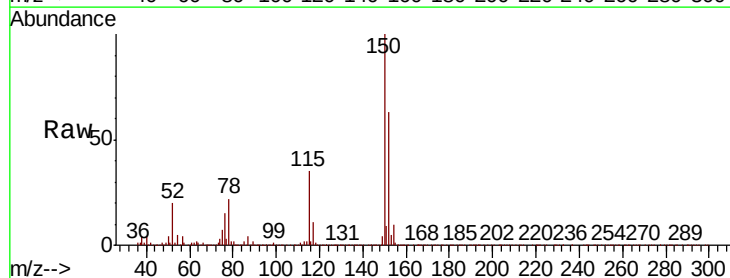
Tgt Ion:152 Resp: 325995

Ion Ratio Lower Upper

152 100

115 57.0 38.3 114.9

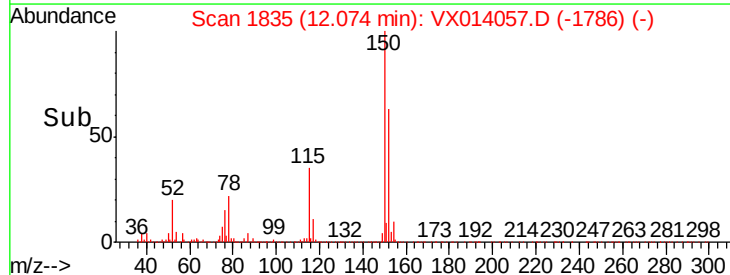
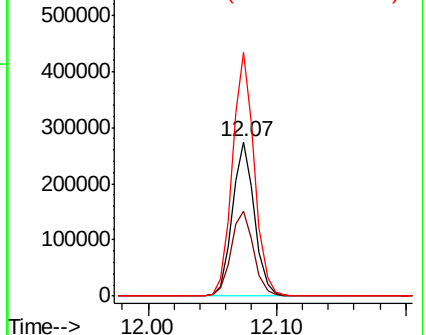
150 157.8 0.0 345.4

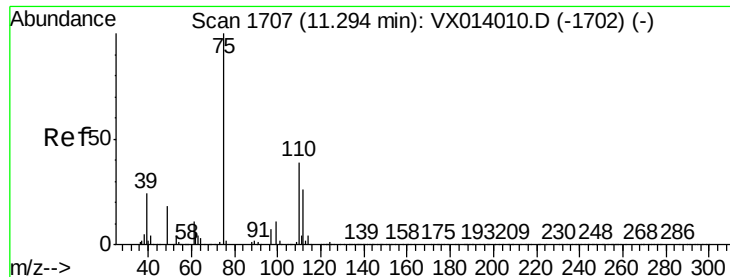


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.929 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014057.D

Acq: 17 Dec 2019 17:23

Instrument :

MSVOA\_X

ClientSampleId :

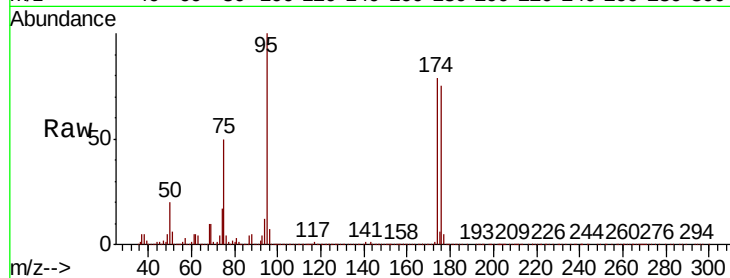
MW201D1-20191207

Tot Ion: 75 Resp: 169352

Ion Ratio Lower Upper

75 100

77 1.7 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

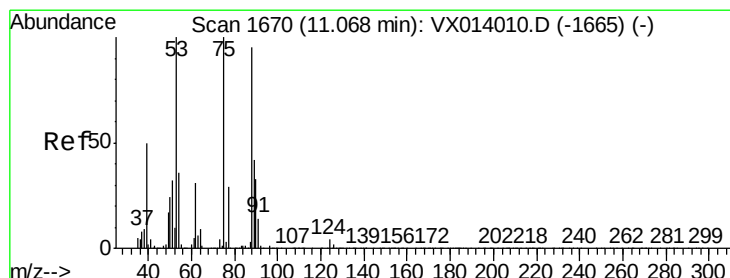
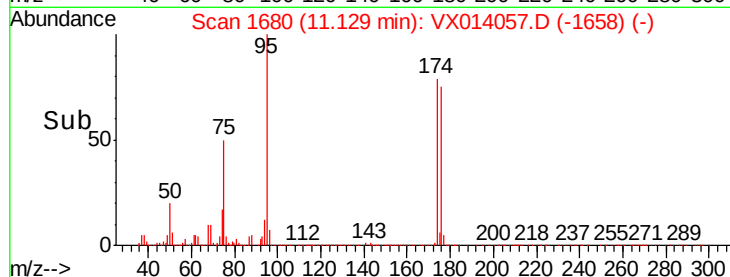
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 67.540 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014057.D

Acq: 17 Dec 2019 17:23

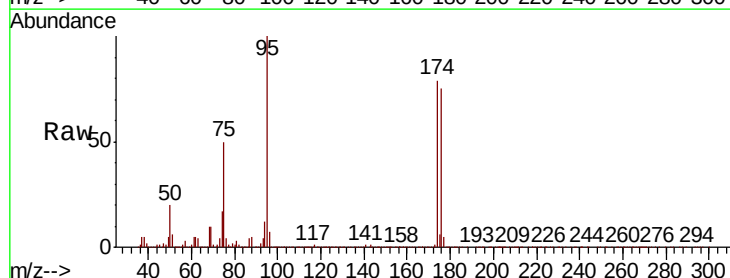
Tgt Ion: 75 Resp: 169352

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 34.6 51.8#



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

11.13

150000

100000

50000

0

Time-->

