

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122218\  
 Data File : VX006778.D  
 Acq On : 22 Dec 2018 17:56  
 Operator : JC/MD  
 Sample : J6497-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-3

Quant Time: Dec 24 04:27:15 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 19 15:20:58 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 613135   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 960238   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 883129   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 417144   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 334995   | 50.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.38% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 289692   | 47.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.42%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1137217  | 49.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.36%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 404948   | 48.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.60%  |          |

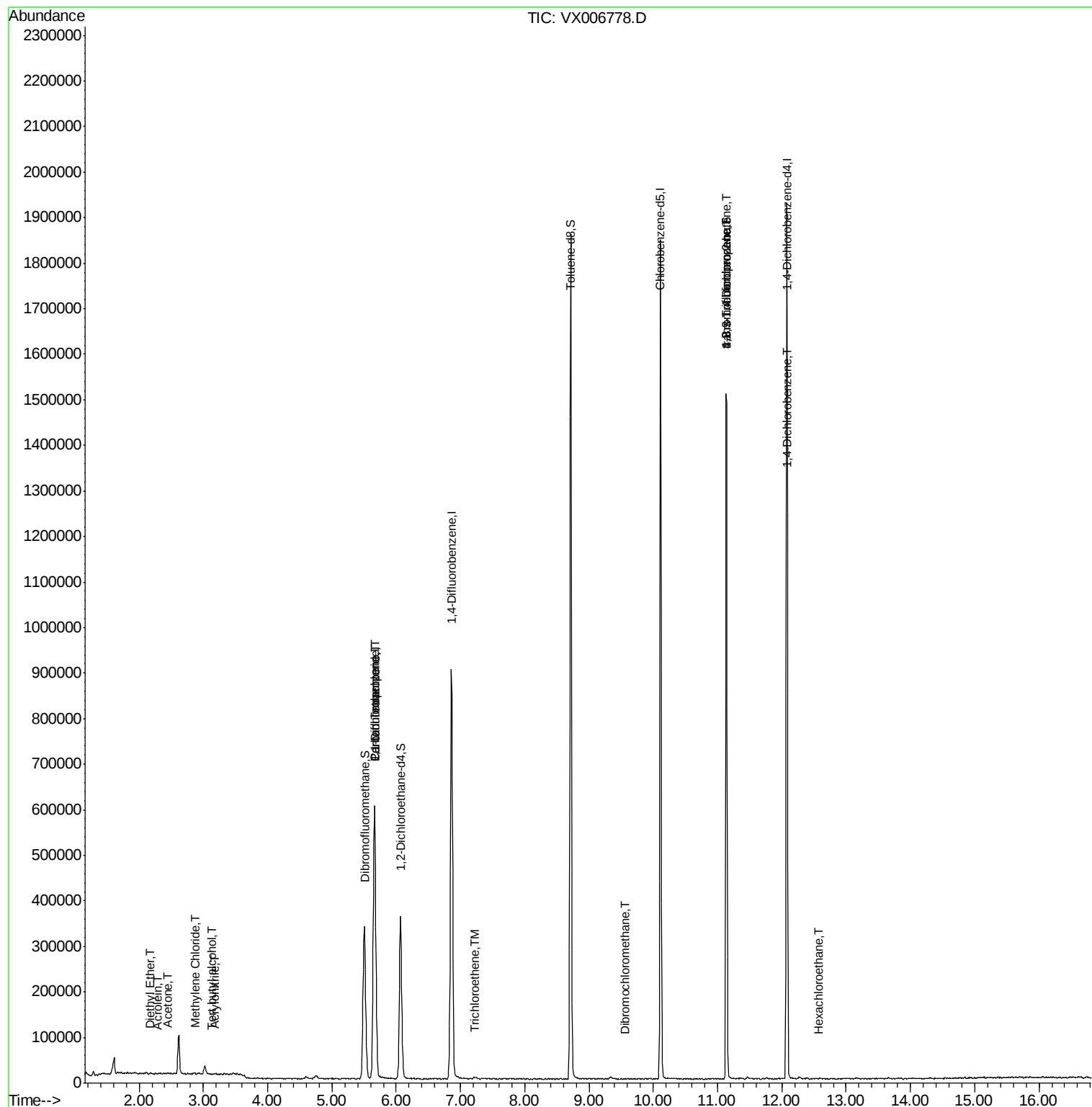
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 236      | Below Cal | #      | 21     |
| 8) Diethyl Ether               | 2.18  | 74   | 1118     | 0.286     | ug/l   | 63     |
| 11) Tert butyl alcohol         | 3.14  | 59   | 371      | 0.252     | ug/l # | 72     |
| 13) Acrolein                   | 2.28  | 56   | 206      | 0.207     | ug/l # | 59     |
| 15) Acrylonitrile              | 3.17  | 53   | 662      | 0.202     | ug/l # | 44     |
| 16) Acetone                    | 2.45  | 43   | 3622     | 1.193     | ug/l   | 90     |
| 20) Methylene Chloride         | 2.87  | 84   | 2062     | 0.328     | ug/l # | 59     |
| 28) Bromochloromethane         | 5.04  | 49   | 160      | Below Cal | #      | 13     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 40667    | 5.113     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 56753    | 7.343     | ug/l # | 13     |
| 44) Trichloroethene            | 7.21  | 130  | 1638     | 0.224     | ug/l   | 99     |
| 49) 1,4-Dioxane                | 7.73  | 88   | 181      | Below Cal | #      | 55     |
| 60) Dibromochloromethane       | 9.56  | 129  | 65       | 2.333     | ug/l # | 10     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 190946   | 24.631    | ug/l # | 40     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 190946   | 72.846    | ug/l # | 10     |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 3191     | 0.224     | ug/l # | 1      |
| 90) Hexachloroethane           | 12.58 | 117  | 61       | 3.308     | ug/l   | 65     |

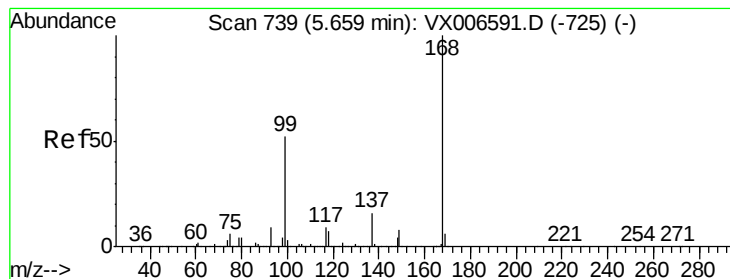
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX122218\  
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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampled :  
MW-3

Quant Time: Dec 24 04:27:15 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 19 15:20:58 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

Instrument :

MSVOA\_X

ClientSampleId :

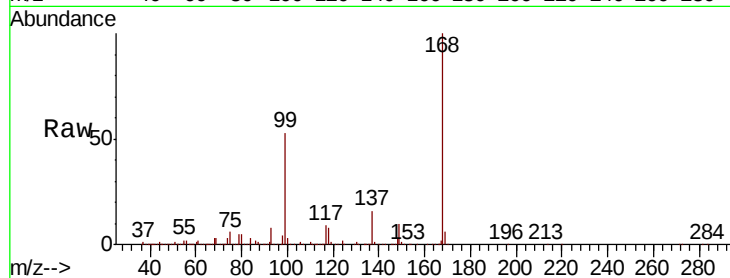
MW-3

Tot Ion:168 Resp: 613135

Ion Ratio Lower Upper

168 100

99 52.6 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

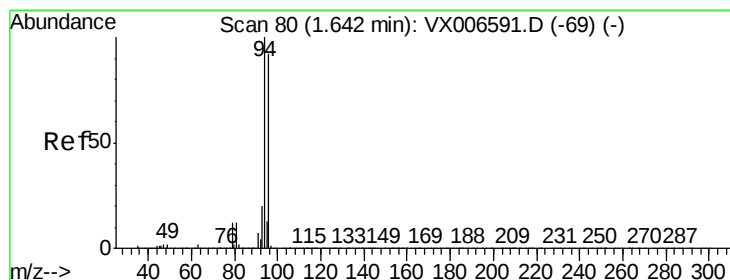
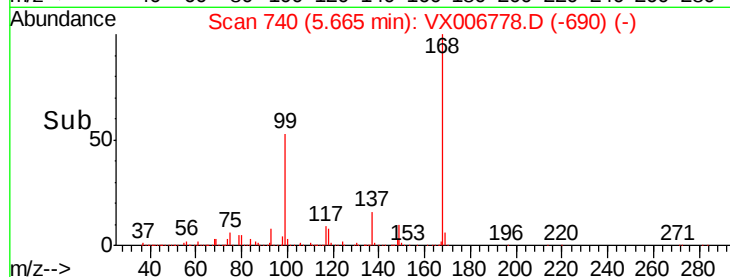
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006778.D

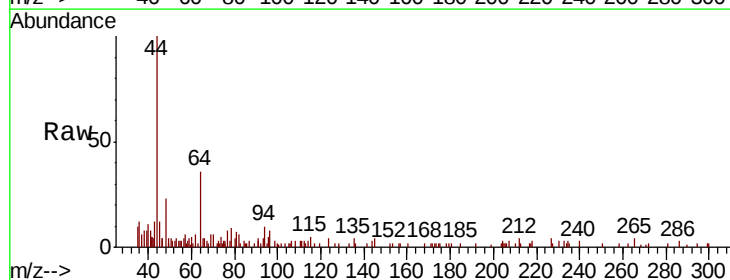
Acq: 22 Dec 2018 17:56

Tgt Ion: 94 Resp: 236

Ion Ratio Lower Upper

94 100

96 167.5 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

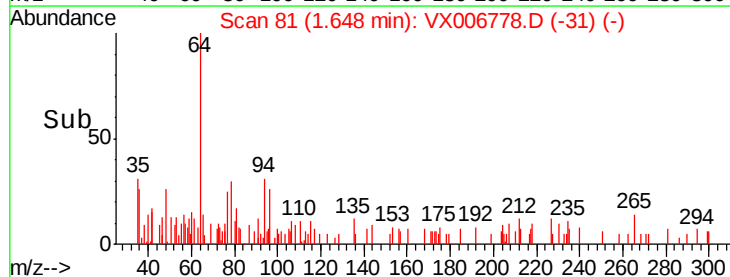
300

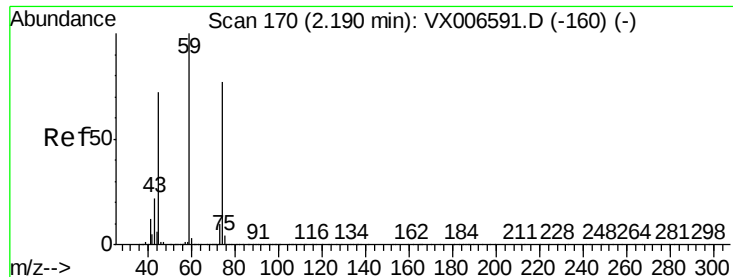
200

100

0

Time-->





#8

Diethyl Ether

Concen: 0.286 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

Instrument :

MSVOA\_X

ClientSampleId :

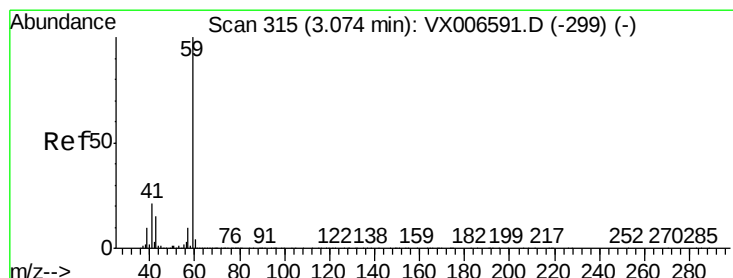
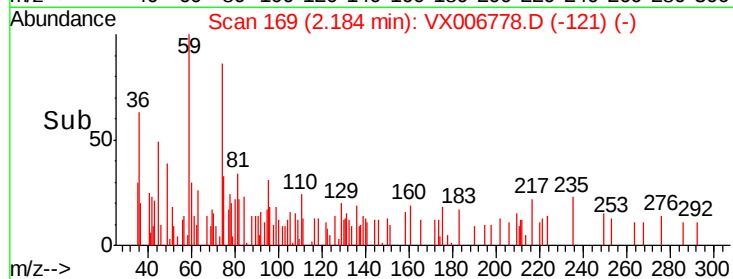
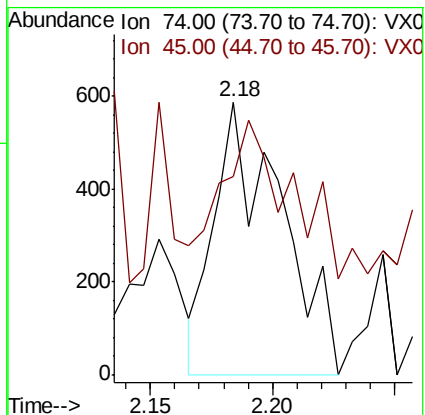
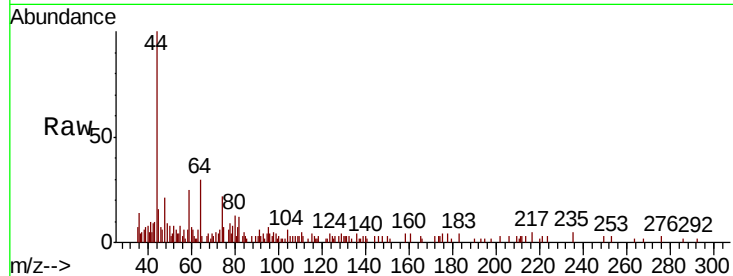
MW-3

Tot Ion: 74 Resp: 1118

Ion Ratio Lower Upper

74 100

45 57.2 46.3 138.9



#11

Tert butyl alcohol

Concen: 0.252 ug/l

RT: 3.14 min Scan# 325

Delta R.T. 0.06 min

Lab File: VX006778.D

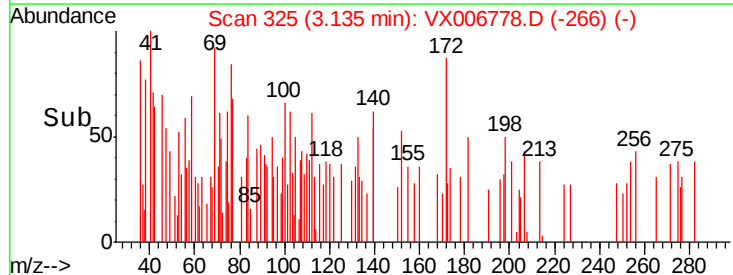
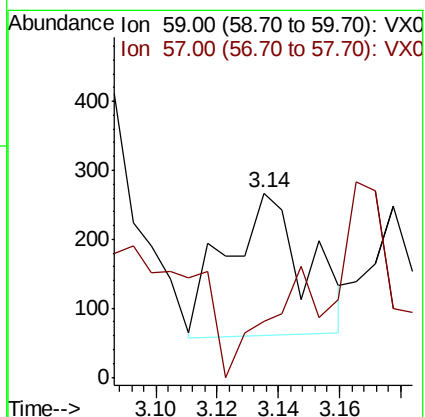
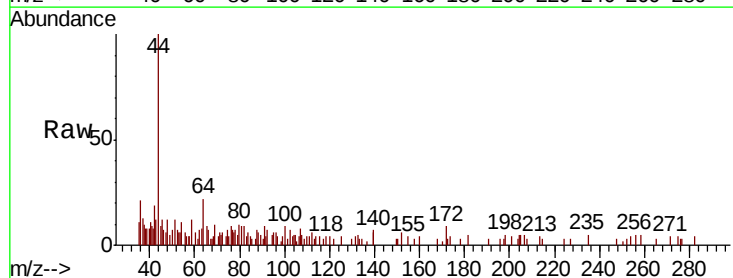
Acq: 22 Dec 2018 17:56

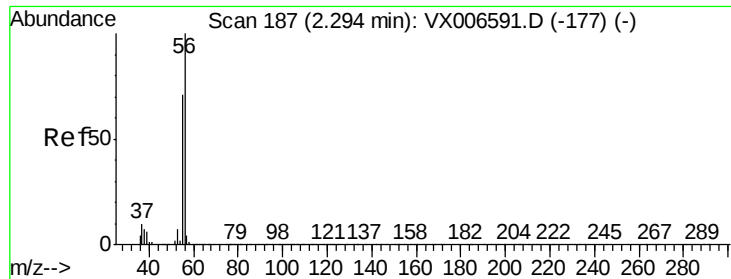
Tgt Ion: 59 Resp: 371

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#

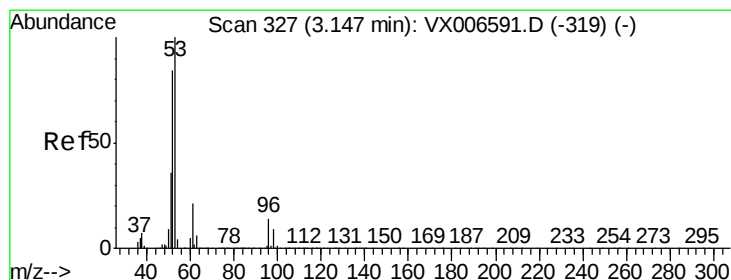
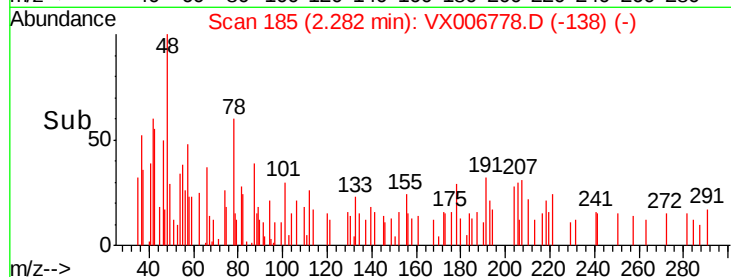
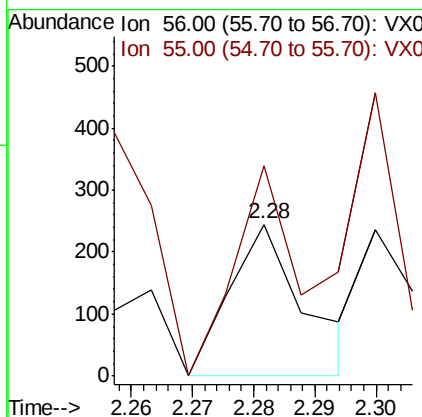
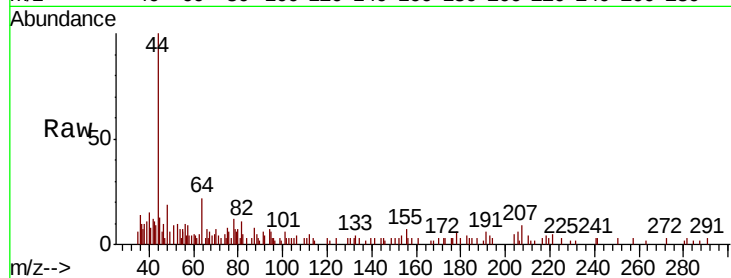




#13  
Acrolein  
Concen: 0.207 ug/l  
RT: 2.28 min Scan# 185  
Delta R.T. -0.01 min  
Lab File: VX006778.D  
Acq: 22 Dec 2018 17:56

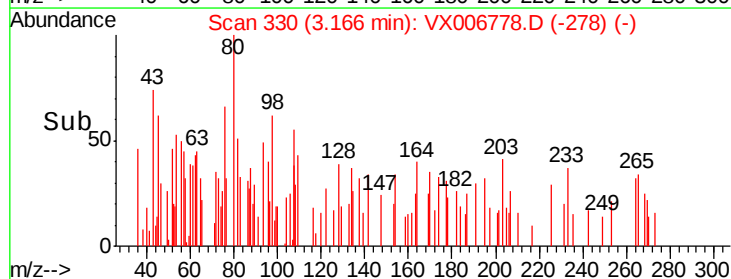
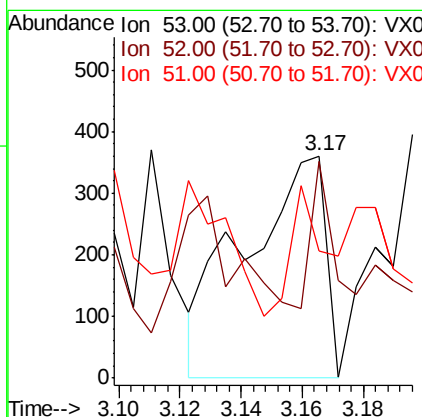
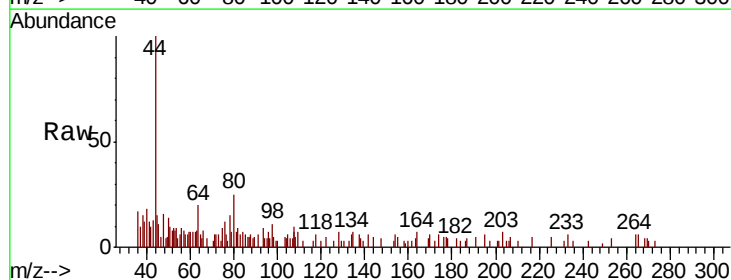
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-3

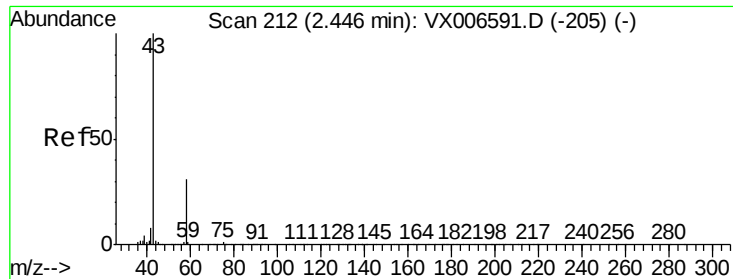
Tot Ion: 56 Resp: 206  
Ion Ratio Lower Upper  
56 100  
55 106.8 58.2 87.4#



#15  
Acrylonitrile  
Concen: 0.202 ug/l  
RT: 3.17 min Scan# 330  
Delta R.T. 0.02 min  
Lab File: VX006778.D  
Acq: 22 Dec 2018 17:56

Tgt Ion: 53 Resp: 662  
Ion Ratio Lower Upper  
53 100  
52 17.2 66.0 99.0#  
51 24.8 28.6 42.8#

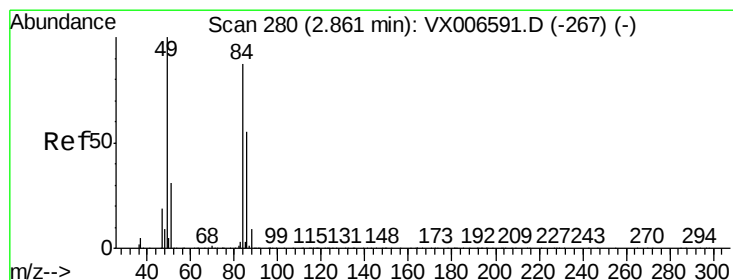
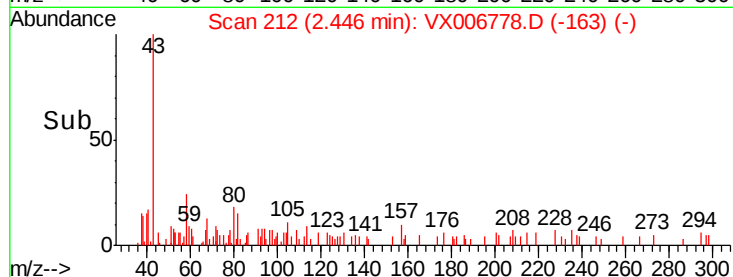
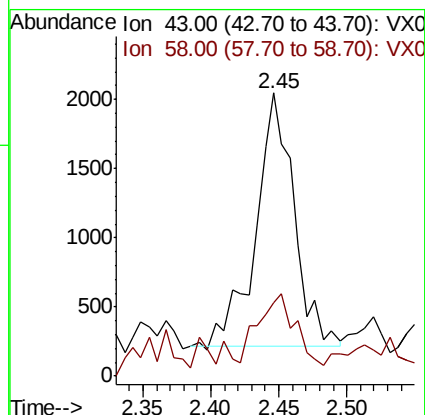
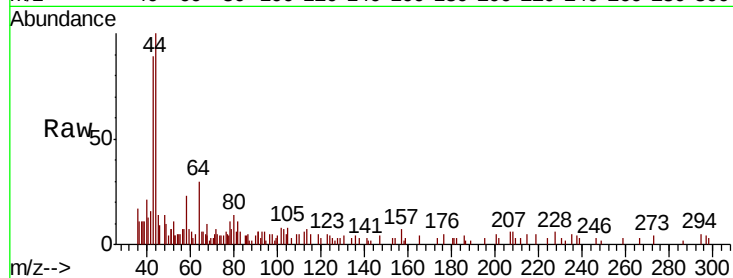




#16  
Acetone  
Concen: 1.193 ug/l  
RT: 2.45 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: VX006778.D  
Acq: 22 Dec 2018 17:56

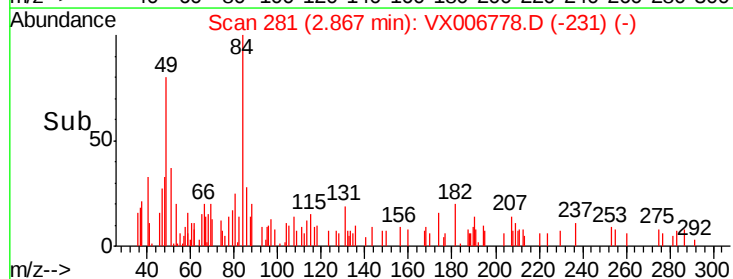
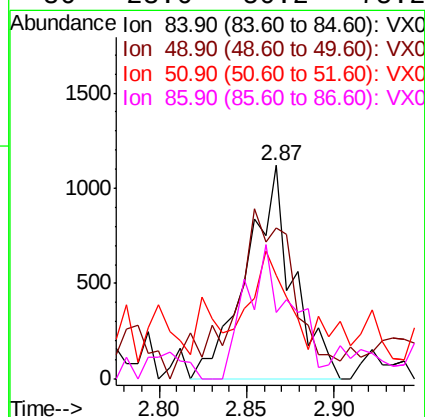
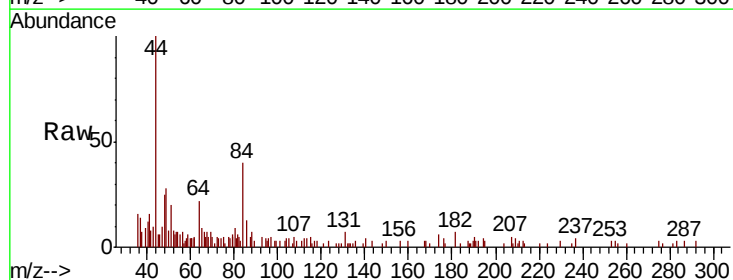
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-3

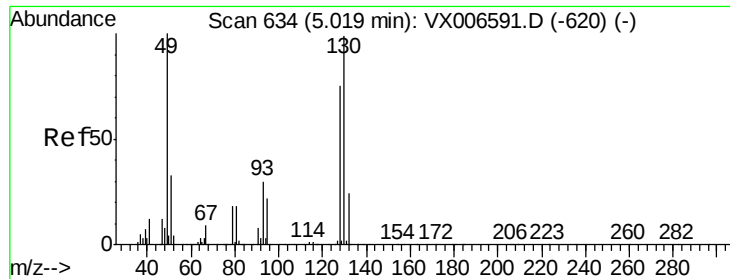
Tot Ion: 43 Resp: 3622  
Ion Ratio Lower Upper  
43 100  
58 25.9 25.0 37.6



#20  
Methylene Chloride  
Concen: 0.328 ug/l  
RT: 2.87 min Scan# 281  
Delta R.T. 0.01 min  
Lab File: VX006778.D  
Acq: 22 Dec 2018 17:56

Tgt Ion: 84 Resp: 2062  
Ion Ratio Lower Upper  
84 100  
49 62.0 91.8 137.6#  
51 36.9 28.5 42.7  
86 23.6 50.2 75.2#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 637

Delta R.T. 0.02 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

Instrument :

MSVOA\_X

ClientSampled :

MW-3

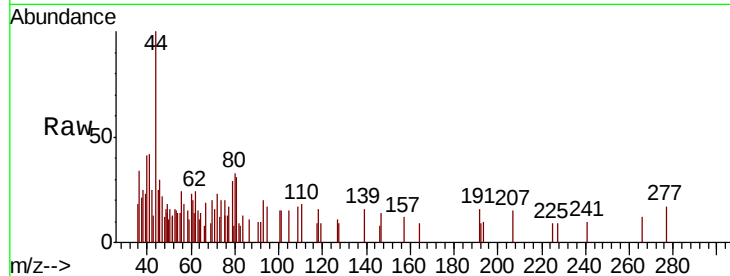
Tot Ion: 49 Resp: 160

Ion Ratio Lower Upper

49 100

129 58.8 0.0 5.4#

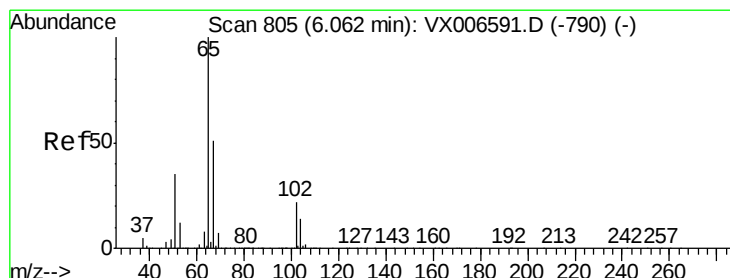
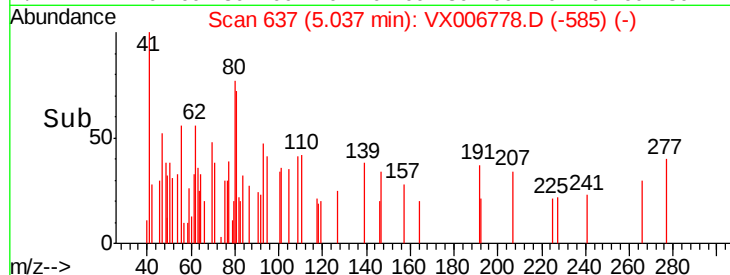
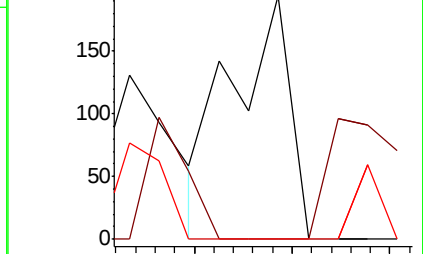
130 13.8 77.7 116.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 50.695 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006778.D

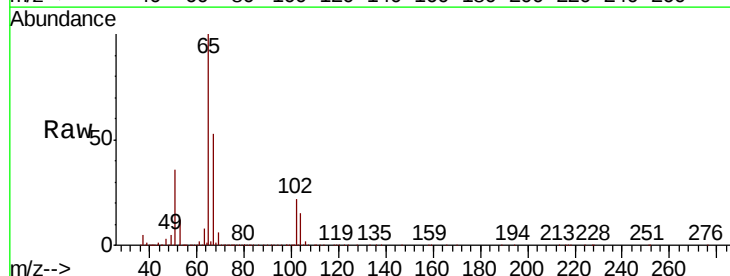
Acq: 22 Dec 2018 17:56

Tgt Ion: 65 Resp: 334995

Ion Ratio Lower Upper

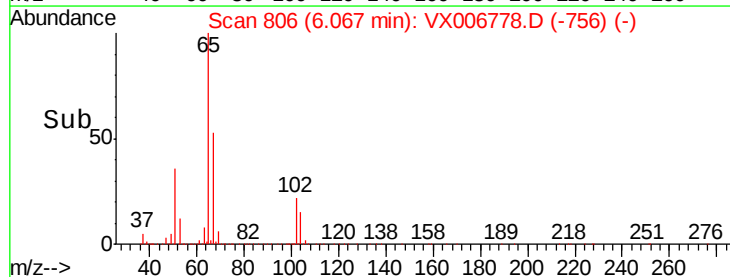
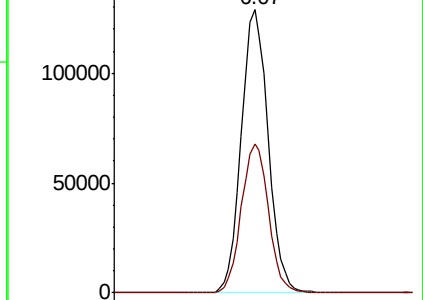
65 100

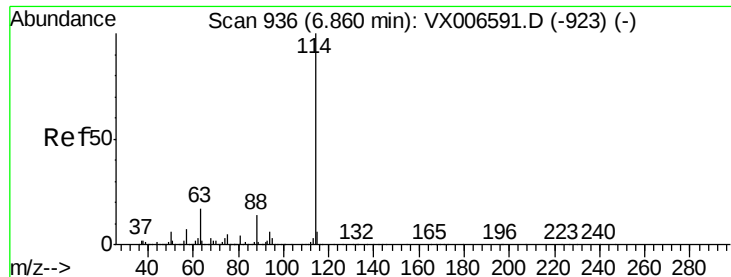
67 52.8 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

Instrument :

MSVOA\_X

ClientSampled :

MW-3

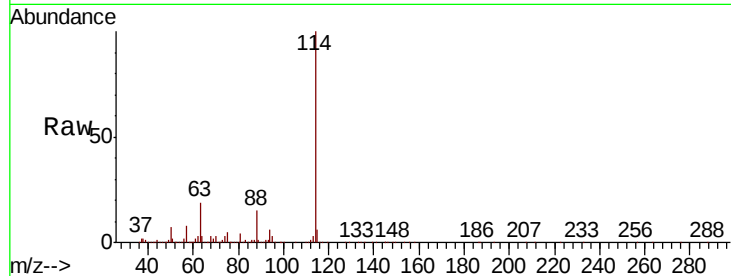
Tot Ion:114 Resp: 960238

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.8

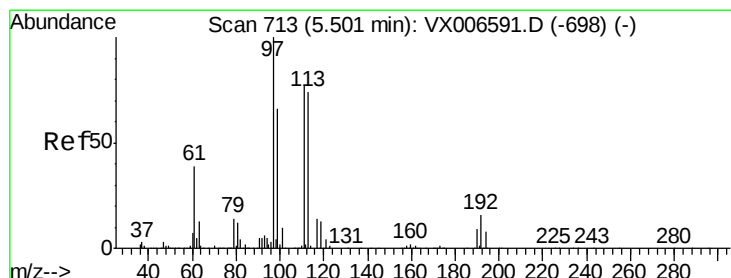
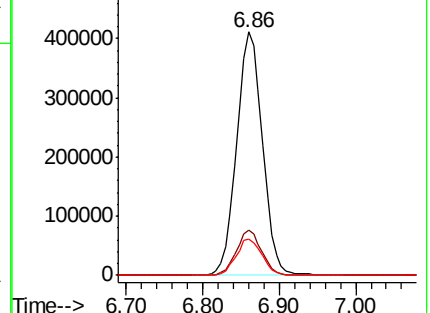
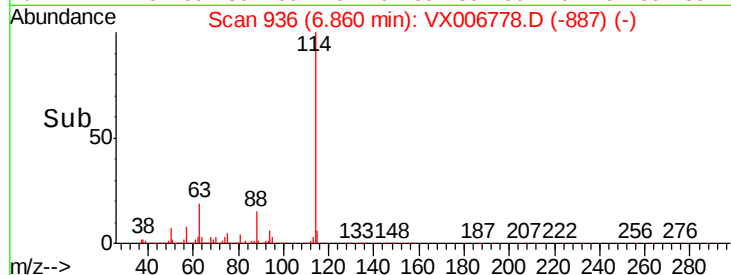
88 14.8 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.707 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

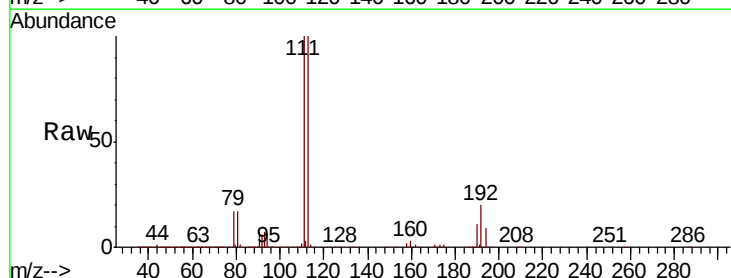
Tgt Ion:113 Resp: 289692

Ion Ratio Lower Upper

113 100

111 101.5 81.6 122.4

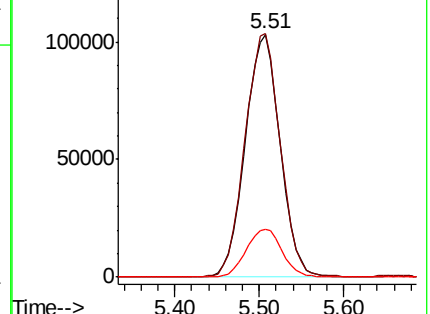
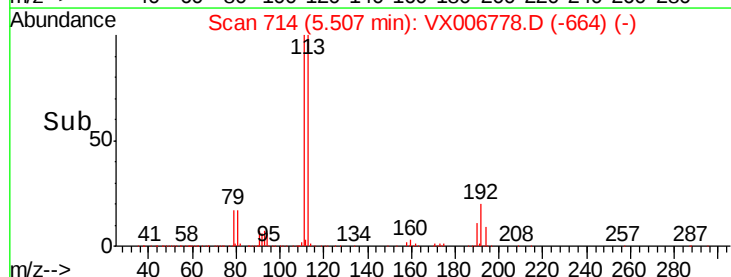
192 20.3 16.7 25.1

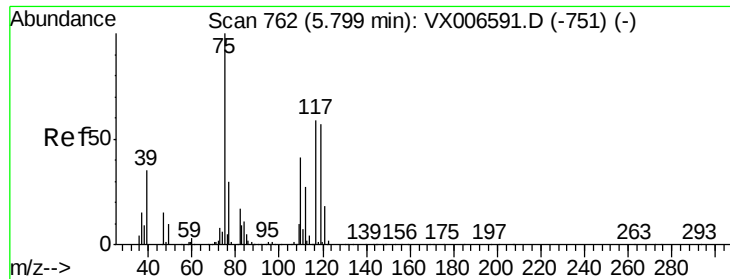


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.113 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

Instrument :

MSVOA\_X

ClientSampleId :

MW-3

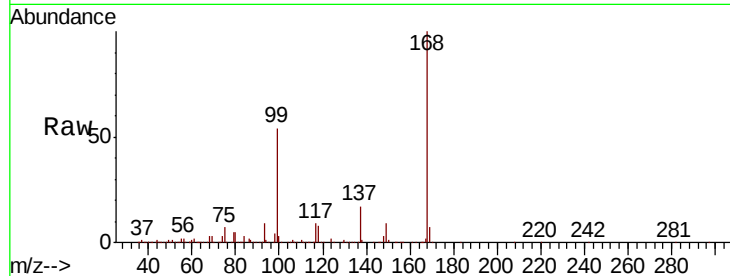
Tot Ion: 75 Resp: 40667

Ion Ratio Lower Upper

75 100

110 9.7 20.2 60.5#

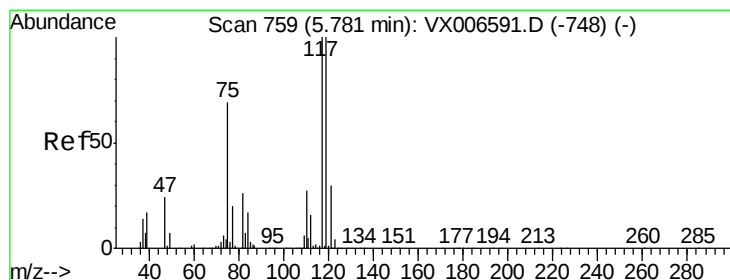
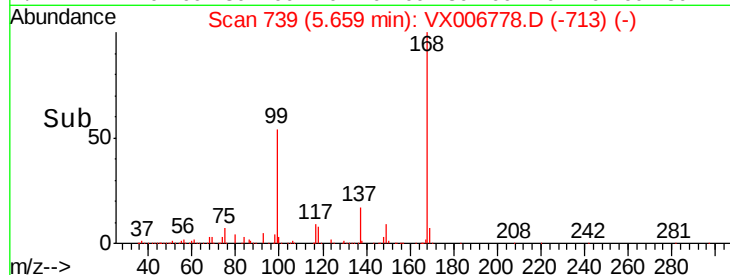
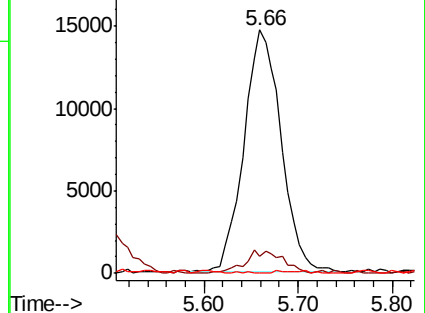
77 0.0 24.8 37.2#



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: 7.343 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

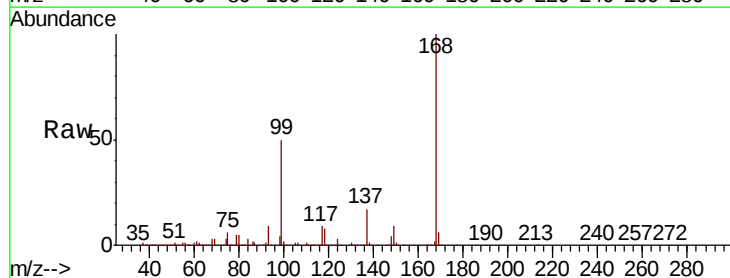
Tgt Ion: 117 Resp: 56753

Ion Ratio Lower Upper

117 100

119 3.3 79.4 119.2#

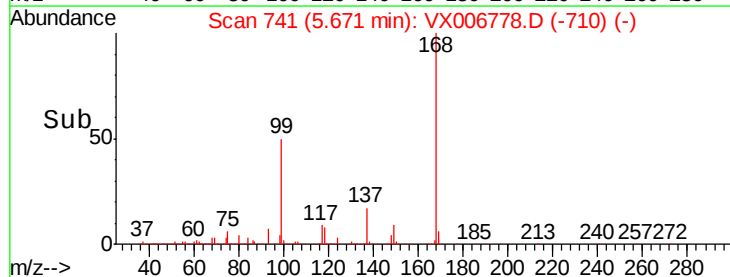
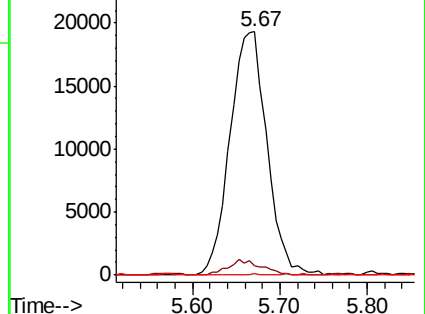
121 0.5 24.0 36.0#

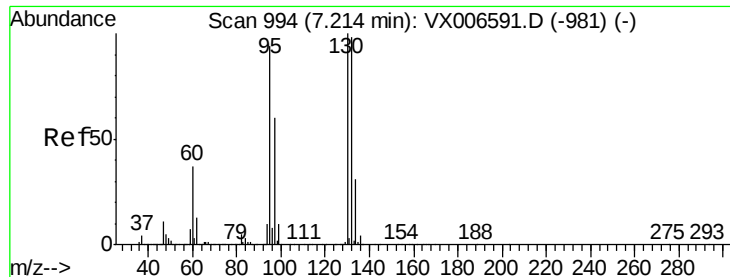


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.224 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

Instrument :

MSVOA\_X

ClientSampled :

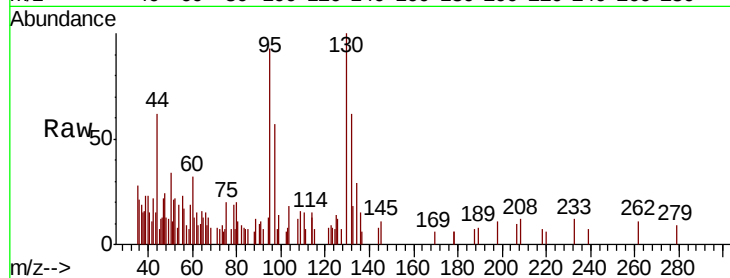
MW-3

Tot Ion:130 Resp: 1638

Ion Ratio Lower Upper

130 100

95 92.9 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

800

600

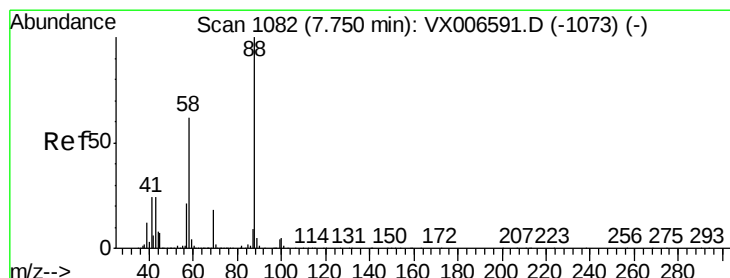
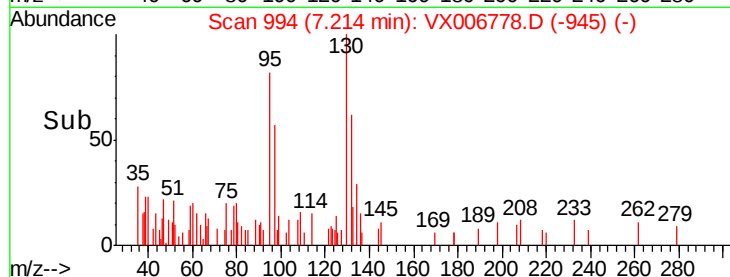
400

200

0

7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.73 min Scan# 1079

Delta R.T. -0.02 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

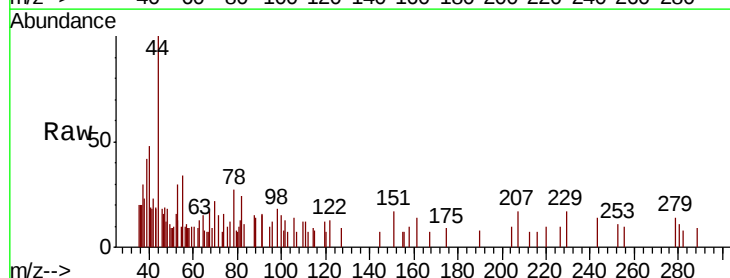
Tgt Ion: 88 Resp: 181

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 96.1 51.0 76.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

300

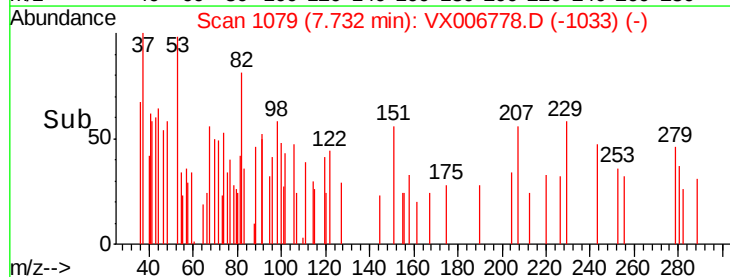
200

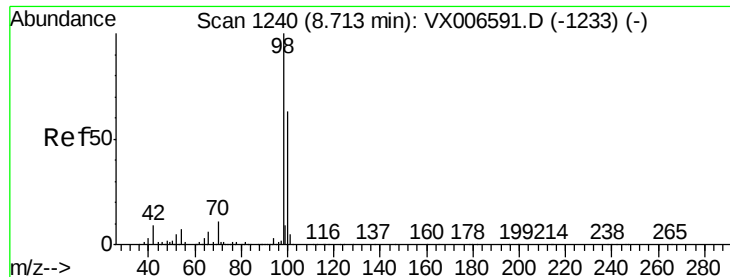
100

0

7.72 7.74 7.76

Time-->





#50

Toluene-d8

Concen: 49.675 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

Instrument :

MSVOA\_X

ClientSampleId :

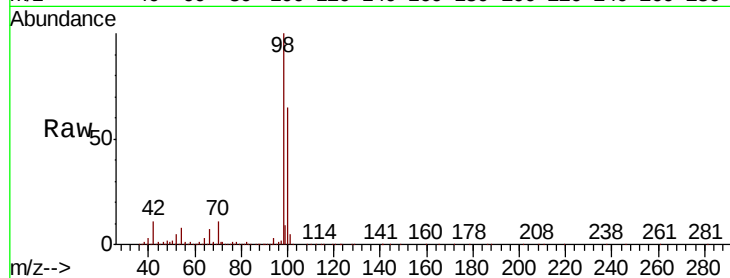
MW-3

Tot Ion: 98 Resp: 1137217

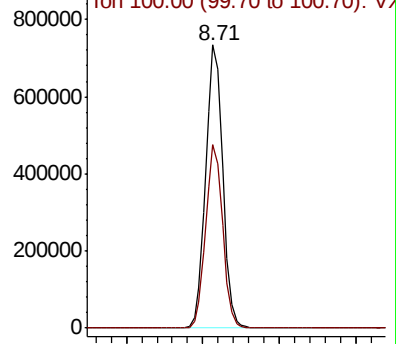
Ion Ratio Lower Upper

98 100

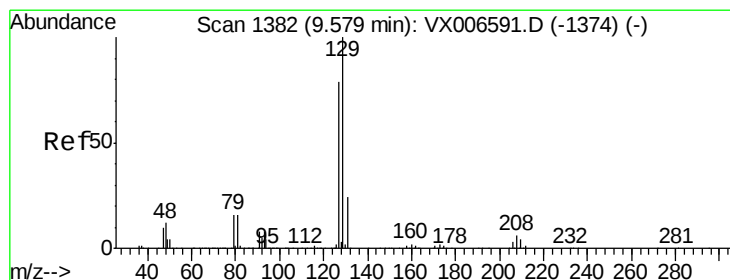
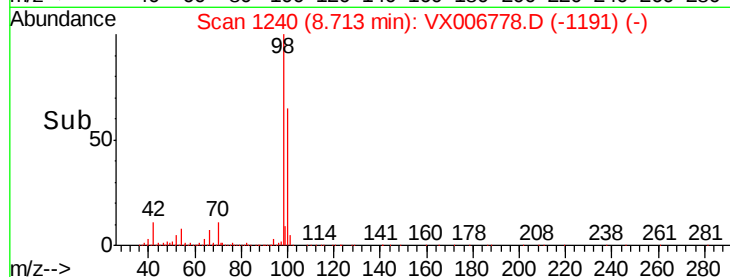
100 64.6 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX006591.D (-1233) (-)



Time-->



#60

Dibromochloromethane

Concen: 2.333 ug/l

RT: 9.56 min Scan# 1379

Delta R.T. -0.02 min

Lab File: VX006778.D

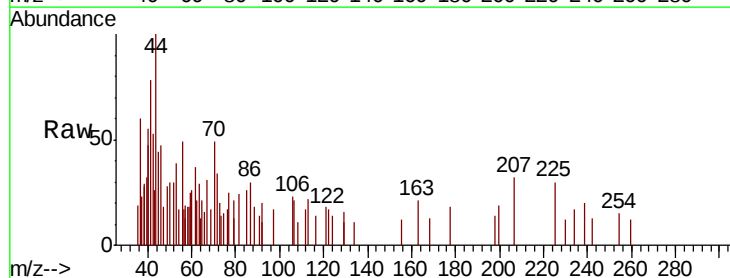
Acq: 22 Dec 2018 17:56

Tgt Ion:129 Resp: 65

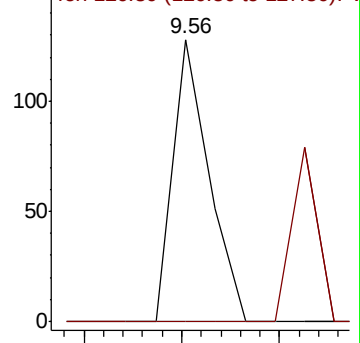
Ion Ratio Lower Upper

129 100

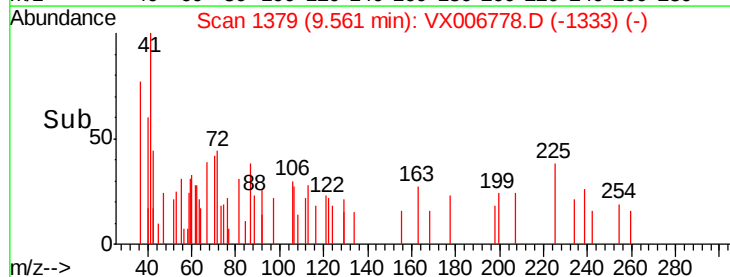
127 0.0 39.3 117.8#

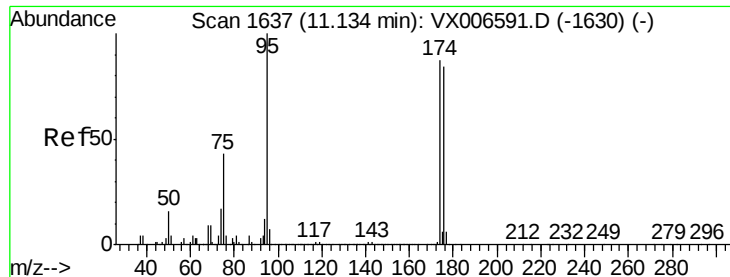


Abundance Ion 128.80 (128.50 to 129.50): VX006591.D (-1374) (-)



Time-->

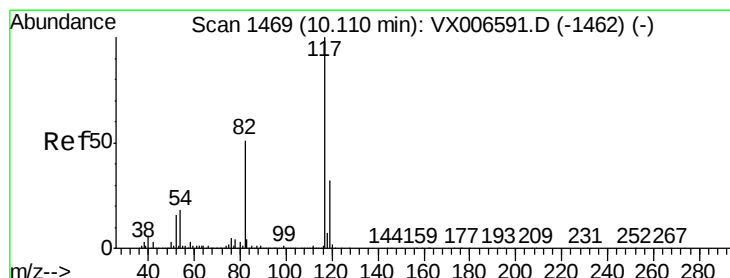
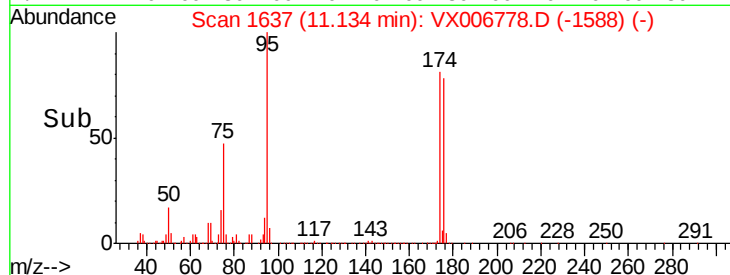
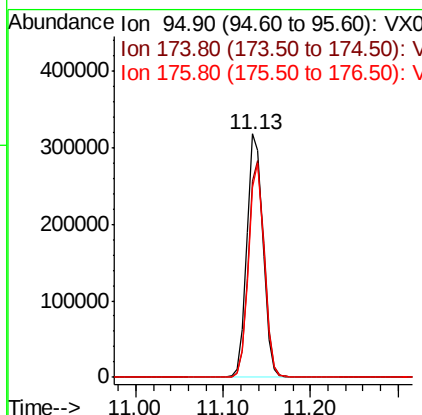
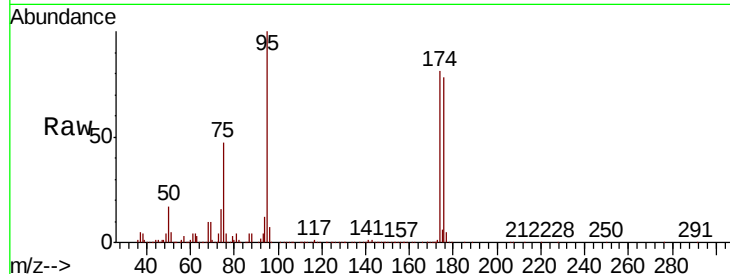




#62  
4-Bromofluorobenzene  
Concen: 48.298 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.00 min  
Lab File: VX006778.D  
Acq: 22 Dec 2018 17:56

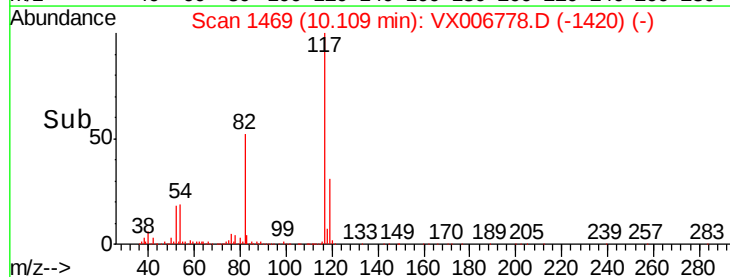
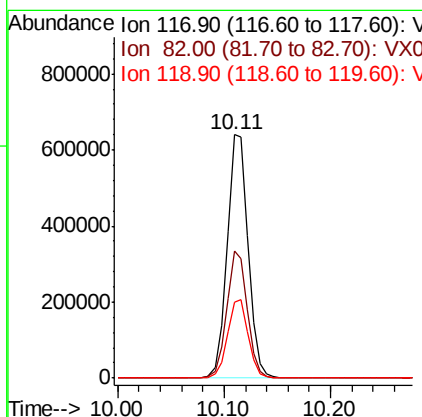
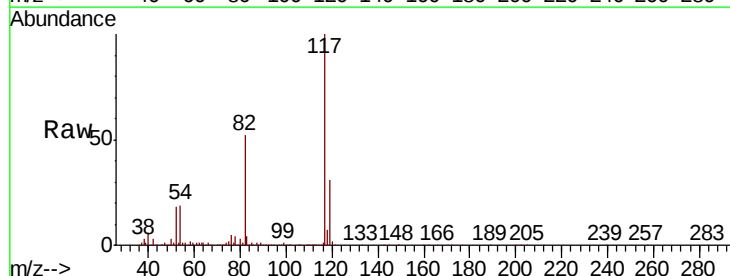
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-3

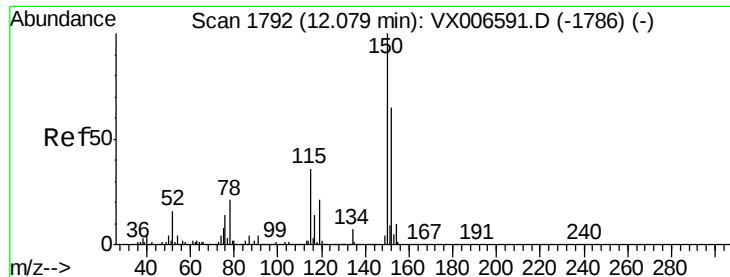
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 87.5  | 0.0   | 182.2 |
| 176     | 85.3  | 0.0   | 178.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX006778.D  
Acq: 22 Dec 2018 17:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.3  | 41.0  | 61.6  |
| 119     | 31.2  | 25.4  | 38.0  |



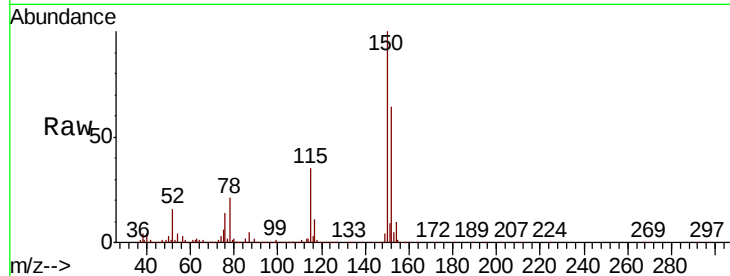


#72

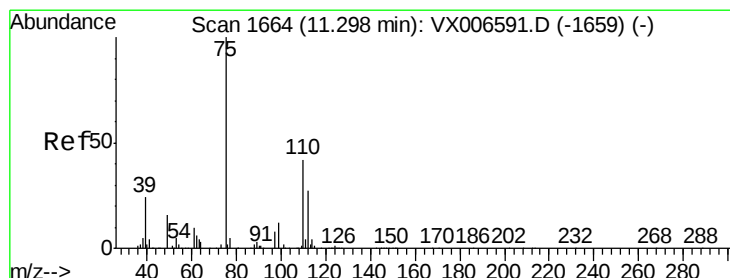
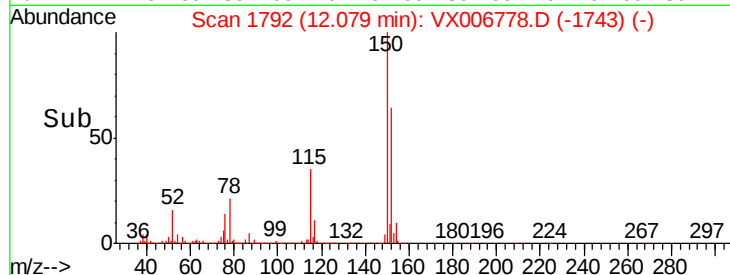
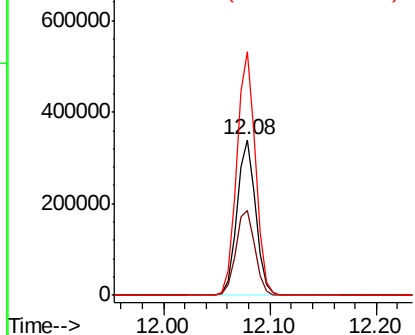
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX006778.D  
Acq: 22 Dec 2018 17:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-3

Tot Ion:152 Resp: 417144  
Ion Ratio Lower Upper  
152 100  
115 55.9 39.1 117.2  
150 156.7 0.0 344.8



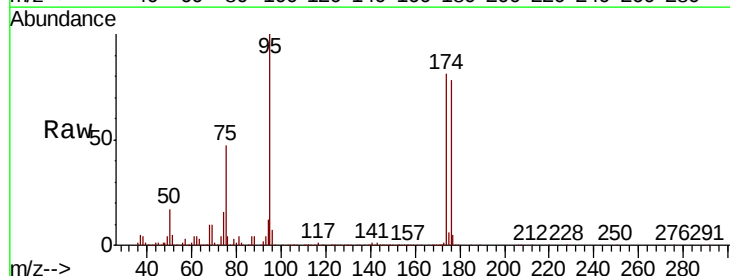
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



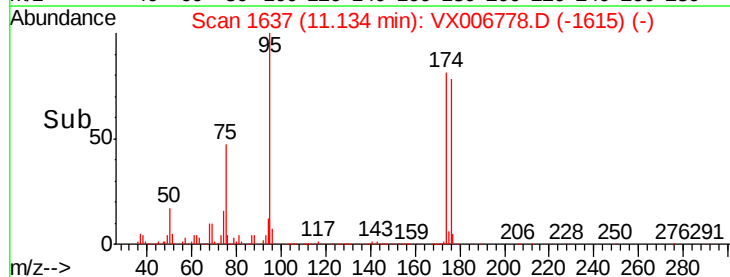
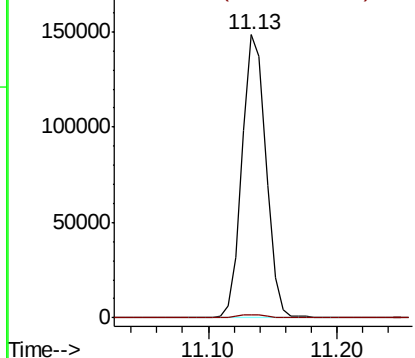
#76

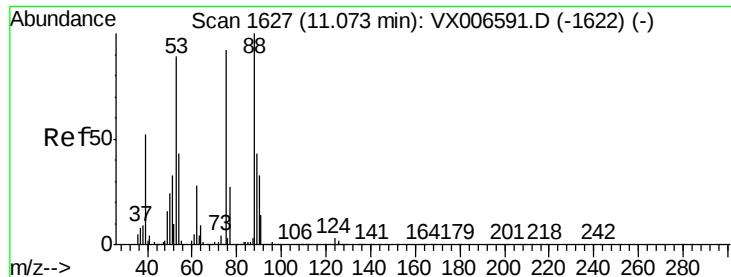
1,2,3-Trichloropropane  
Concen: 24.631 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.16 min  
Lab File: VX006778.D  
Acq: 22 Dec 2018 17:56

Tgt Ion: 75 Resp: 190946  
Ion Ratio Lower Upper  
75 100  
77 1.4 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0  
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 72.846 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

Instrument :

MSVOA\_X

ClientSampleId :

MW-3

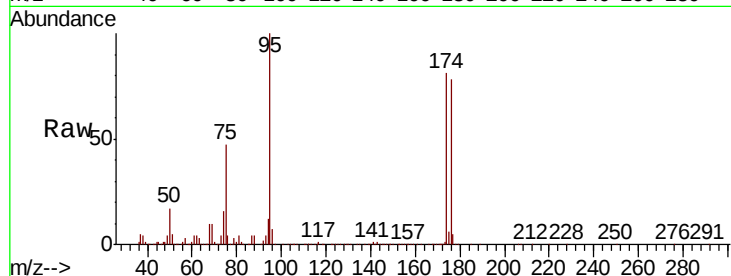
Tot Ion: 75 Resp: 190946

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

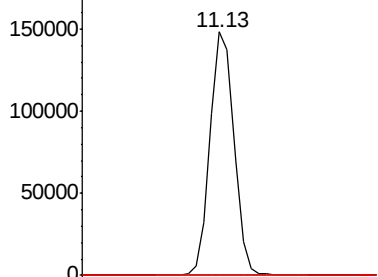
89 0.1 38.0 57.0#



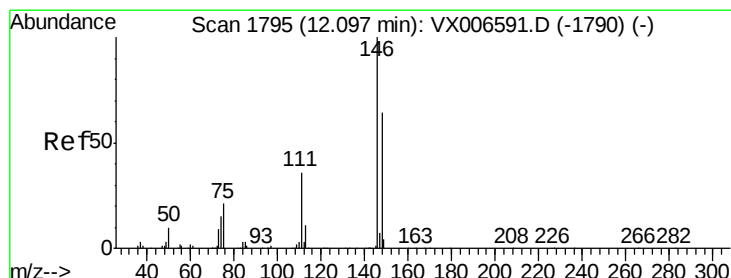
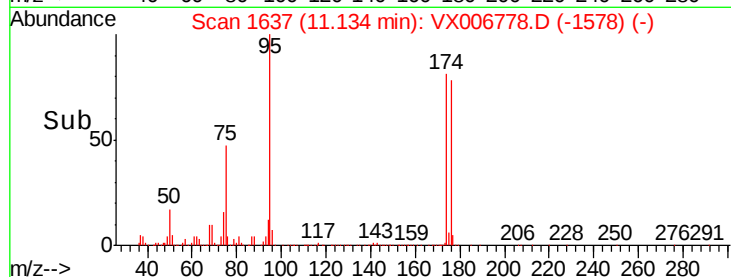
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time-->



#88

1,4-Dichlorobenzene

Concen: 0.224 ug/l

RT: 12.09 min Scan# 1794

Delta R.T. -0.01 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

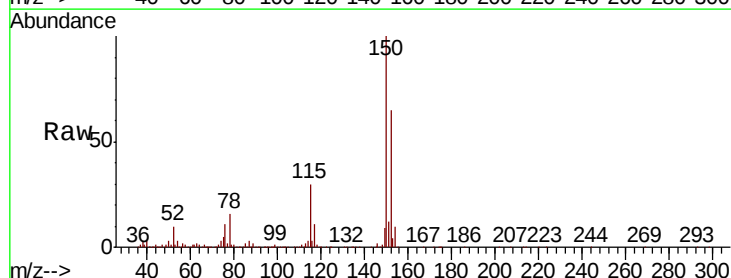
Tgt Ion: 146 Resp: 3191

Ion Ratio Lower Upper

146 100

111 190.3 18.1 54.1#

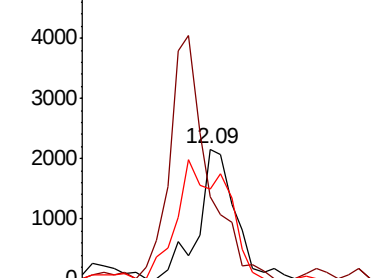
148 121.9 31.9 95.9#



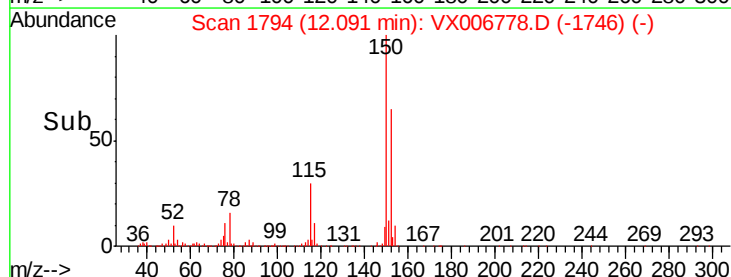
Abundance Ion 145.90 (145.60 to 146.60): V

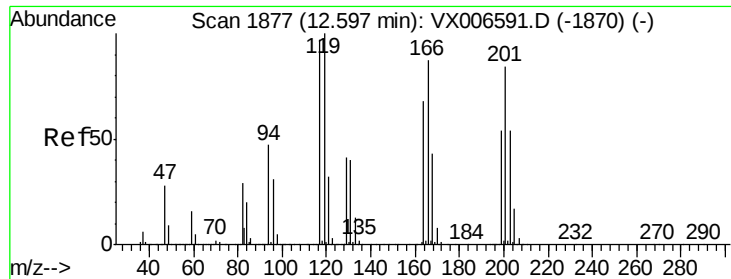
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



Time-->





#90

Hexachloroethane

Concen: 3.308 ug/l

RT: 12.58 min Scan# 1874

Delta R.T. -0.02 min

Lab File: VX006778.D

Acq: 22 Dec 2018 17:56

Instrument :

MSVOA\_X

ClientSampleId :

MW-3

Tot Ion:117 Resp: 61

Ion Ratio Lower Upper

117 100

201 54.1 42.9 128.7

