

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122118\  
 Data File : VX006718.D  
 Acq On : 21 Dec 2018 12:49  
 Operator : JC/MD  
 Sample : J6519-08  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T11-MW-16-10.5-122018

Quant Time: Dec 22 04:01:58 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  | 686745   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 1057445  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 928326   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 427959   | 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   | 356792   | 48.21 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.42% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 313980   | 46.95 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.90% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1221140  | 48.44 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.88% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 420177   | 45.51 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.02% |          |

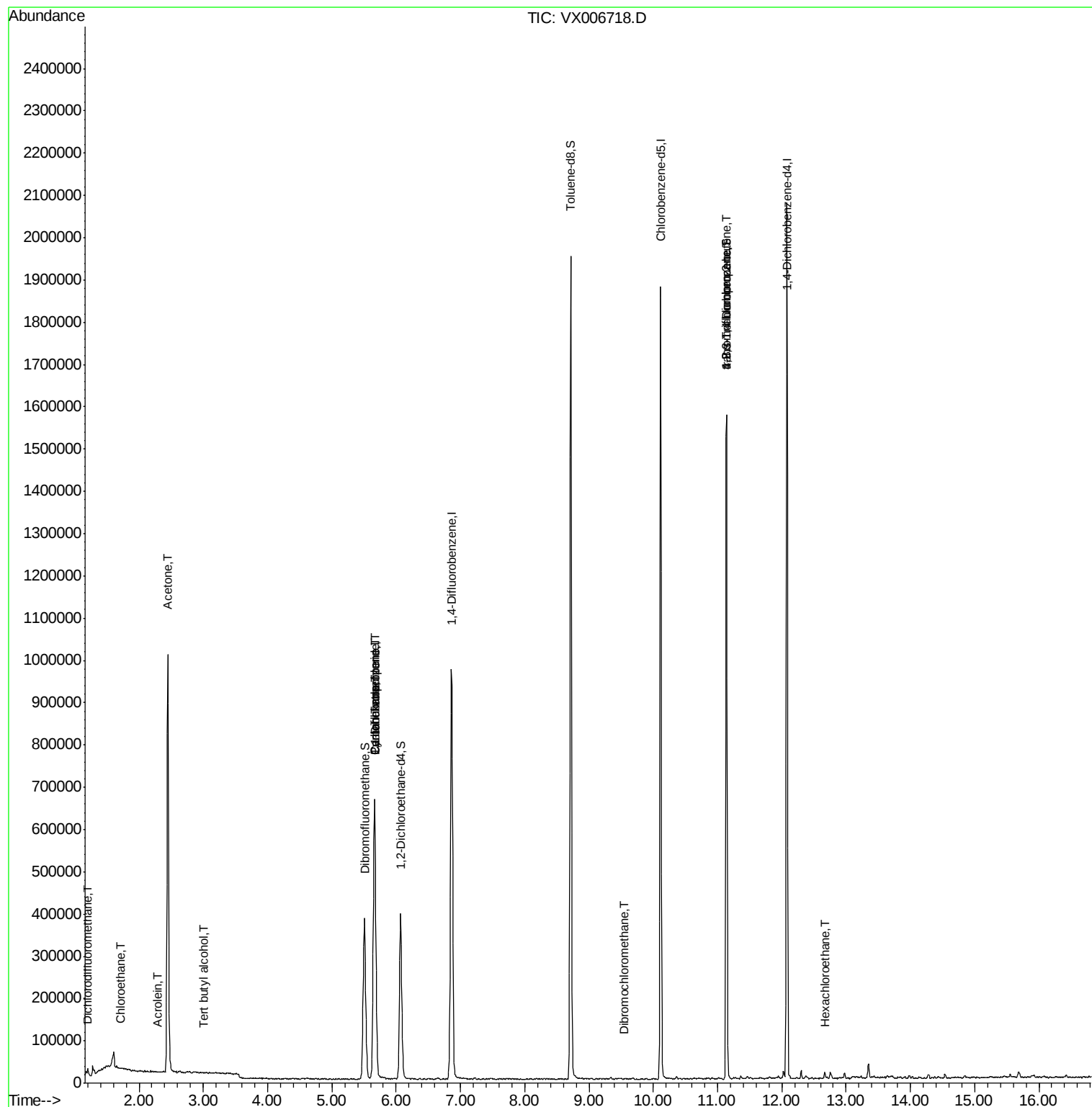
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.20  | 85   | 8315     | 1.324     | ug/l   | 100    |
| 5) Bromomethane                | 1.65  | 94   | 1654     | Below Cal | #      | 75     |
| 6) Chloroethane                | 1.71  | 64   | 2437     | 0.498     | ug/l # | 42     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 364      | 0.220     | ug/l # | 1      |
| 13) Acrolein                   | 2.29  | 56   | 305      | 0.274     | ug/l # | 1      |
| 16) Acetone                    | 2.45  | 43   | 1041105  | 306.166   | ug/l   | 98     |
| 28) Bromochloromethane         | 5.03  | 49   | 321      | Below Cal | #      | 4      |
| 31) Cyclohexane                | 5.67  | 56   | 11449    | 1.117     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 43242    | 4.937     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 61929    | 7.276     | ug/l # | 14     |
| 49) 1,4-Dioxane                | 7.73  | 88   | 58       | Below Cal | #      | 1      |
| 60) Dibromochloromethane       | 9.54  | 129  | 125      | 2.340     | ug/l   | 71     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 196834   | 24.749    | ug/l # | 40     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 196834   | 73.175    | ug/l # | 10     |
| 90) Hexachloroethane           | 12.66 | 117  | 912      | 3.502     | ug/l # | 6      |

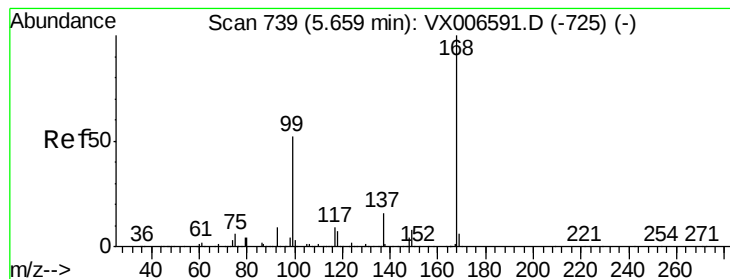
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX122118\  
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MSVOA\_X  
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T11-MW-16-10.5-122018

Quant Time: Dec 22 04:01:58 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: VX006718.D

Acq: 21 Dec 2018 12:49

Instrument :

MSVOA\_X

ClientSampleId :

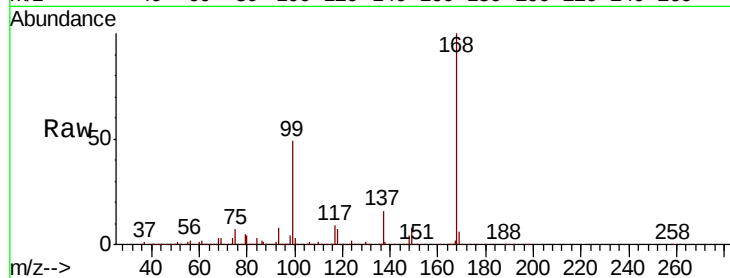
T11-MW-16-10.5-122018

Tot Ion:168 Resp: 686745

Ion Ratio Lower Upper

168 100

99 49.1 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

250000

200000

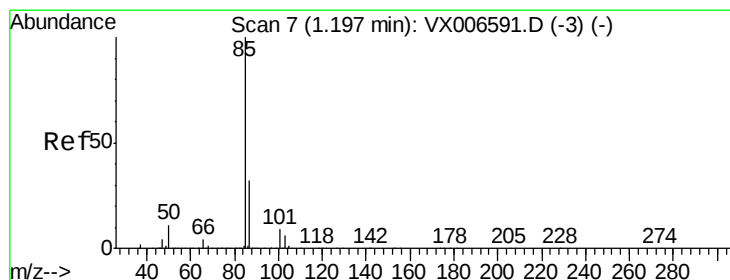
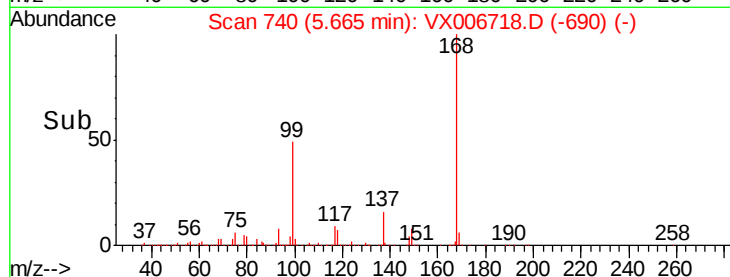
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 1.324 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX006718.D

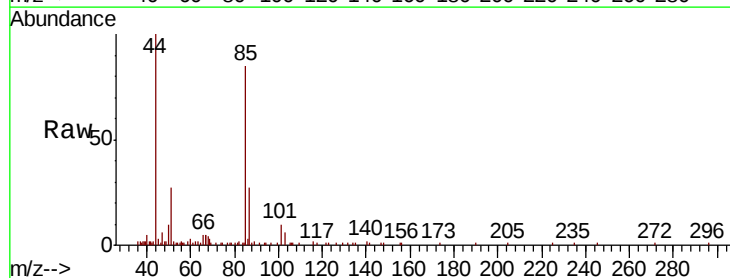
Acq: 21 Dec 2018 12:49

Tgt Ion: 85 Resp: 8315

Ion Ratio Lower Upper

85 100

87 31.9 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

8000

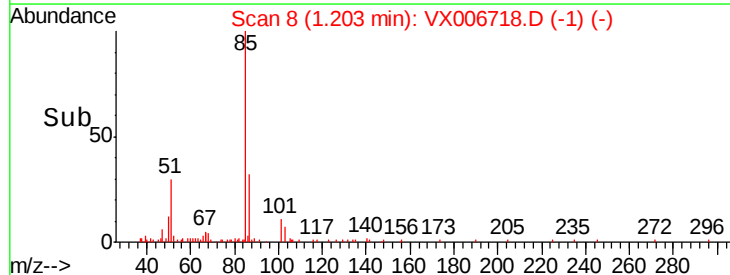
6000

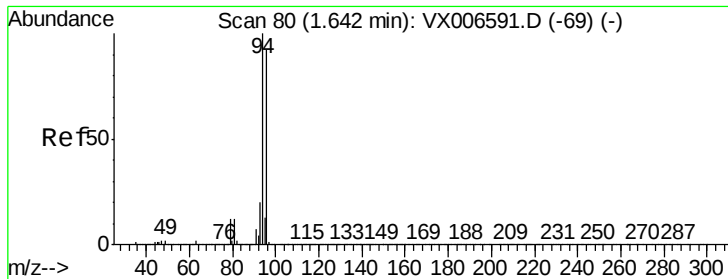
4000

2000

0

Time--> 1.15 1.20 1.25 1.30





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006718.D

Acq: 21 Dec 2018 12:49

Instrument :

MSVOA\_X

ClientSampleId :

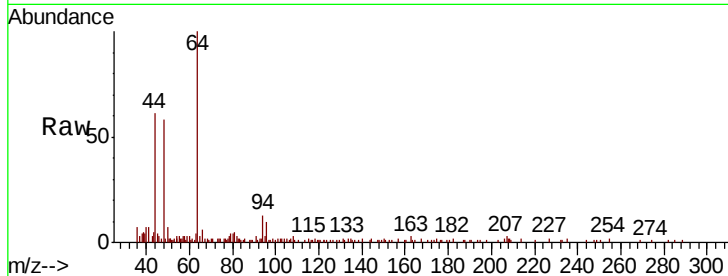
T11-MW-16-10.5-122018

Tot Ion: 94 Resp: 1654

Ion Ratio Lower Upper

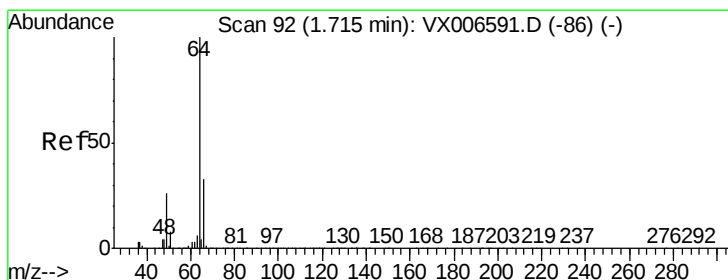
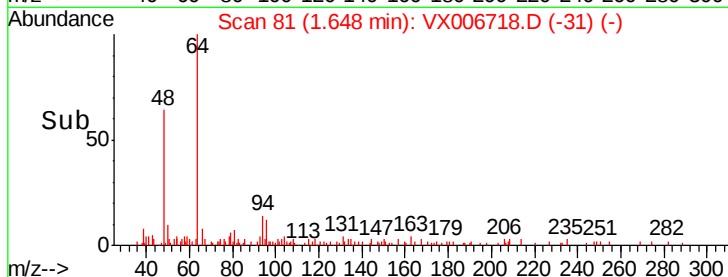
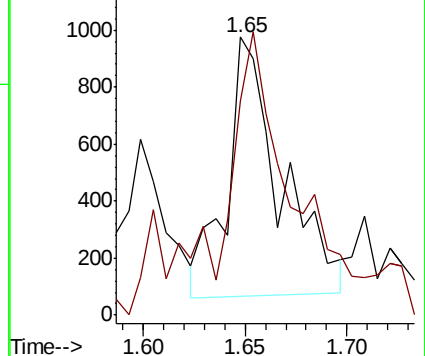
94 100

96 68.4 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.498 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX006718.D

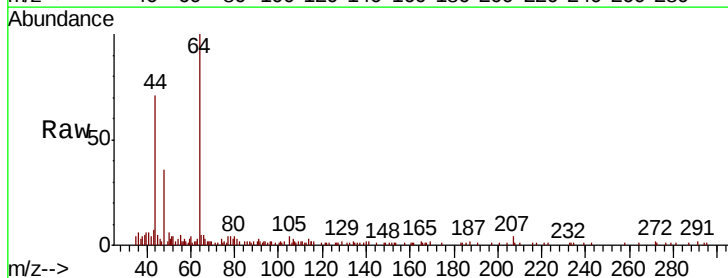
Acq: 21 Dec 2018 12:49

Tgt Ion: 64 Resp: 2437

Ion Ratio Lower Upper

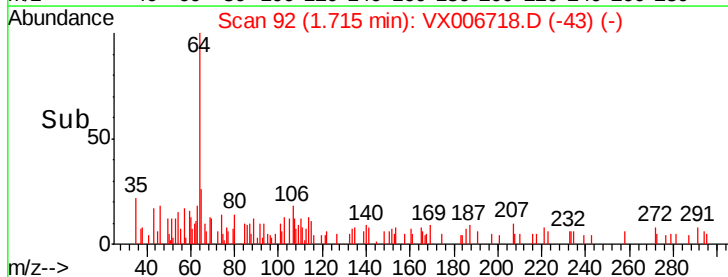
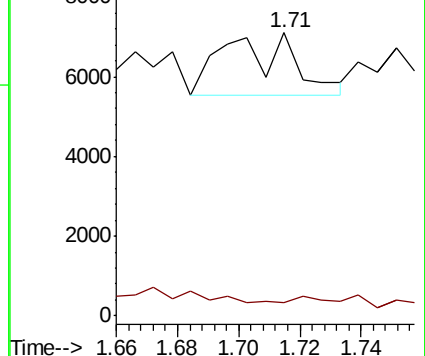
64 100

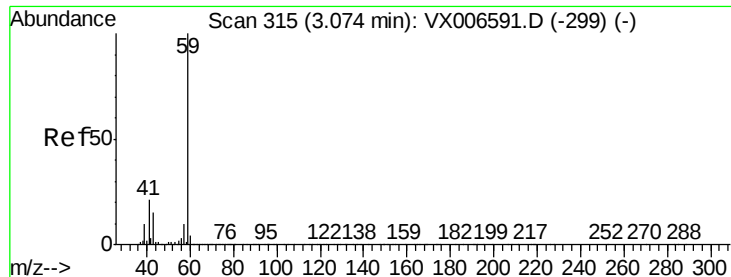
66 0.0 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



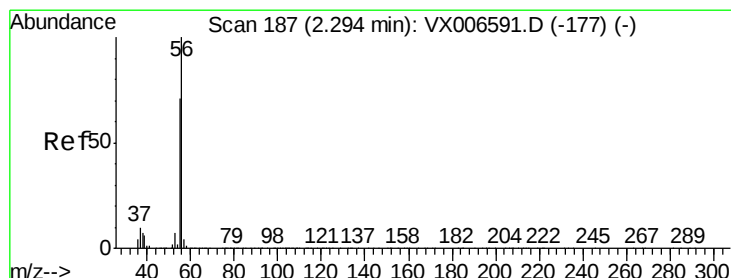
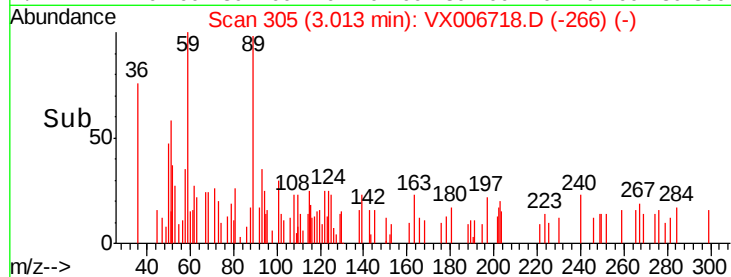
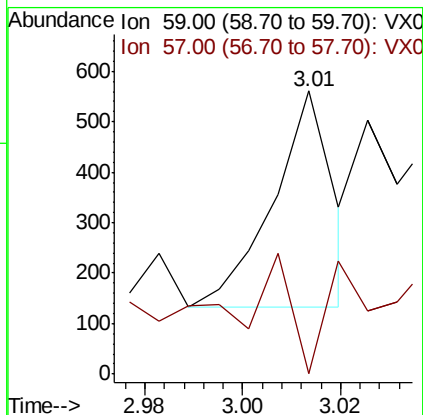
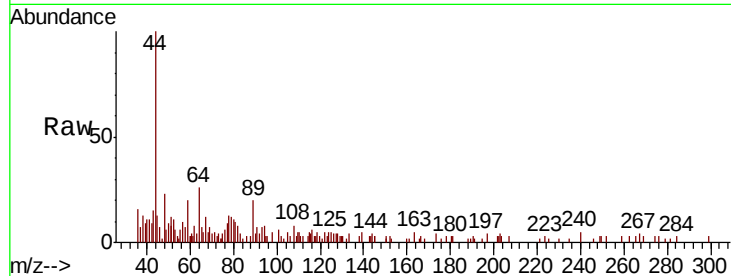


#11

Tert butyl alcohol  
Concen: 0.220 ug/l  
RT: 3.01 min Scan# 305  
Delta R.T. -0.06 min  
Lab File: VX006718.D  
Acq: 21 Dec 2018 12:49

Instrument :  
MSVOA\_X  
ClientSampleId :  
T11-MW-16-10.5-122018

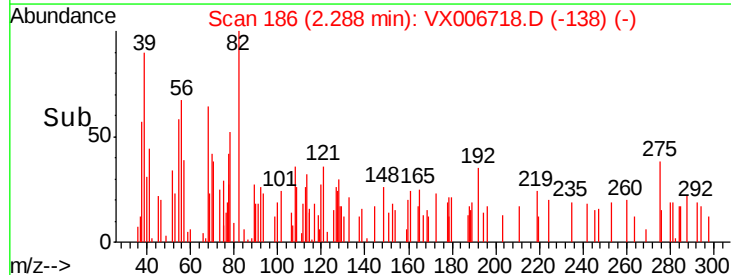
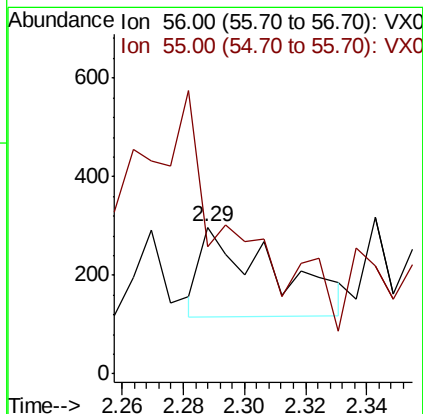
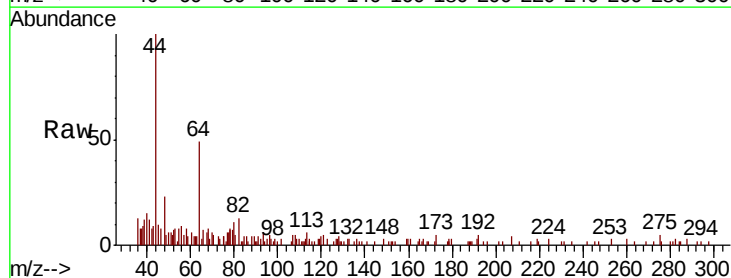
Tot Ion: 59 Resp: 364  
Ion Ratio Lower Upper  
59 100  
57 114.6 8.5 12.7#

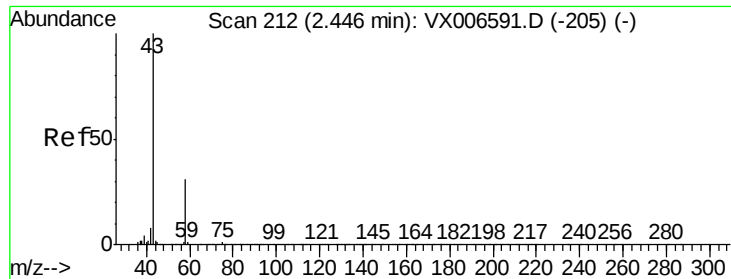


#13

Acrolein  
Concen: 0.274 ug/l  
RT: 2.29 min Scan# 186  
Delta R.T. -0.01 min  
Lab File: VX006718.D  
Acq: 21 Dec 2018 12:49

Tgt Ion: 56 Resp: 305  
Ion Ratio Lower Upper  
56 100  
55 347.9 58.2 87.4#

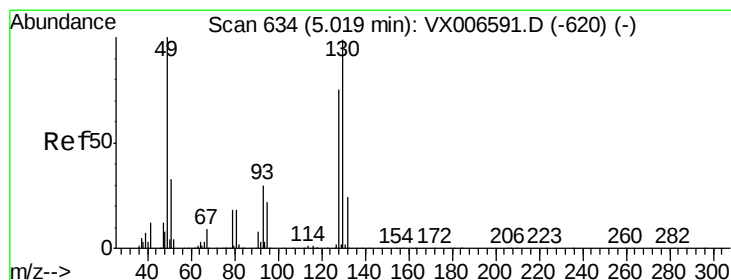
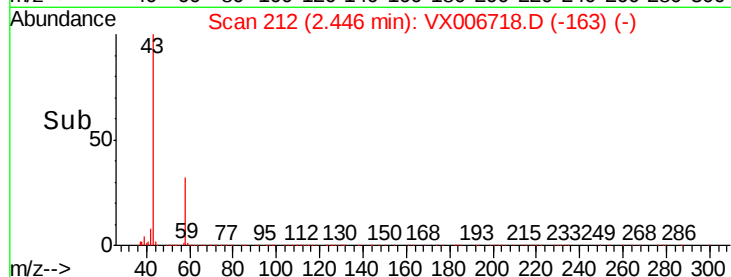
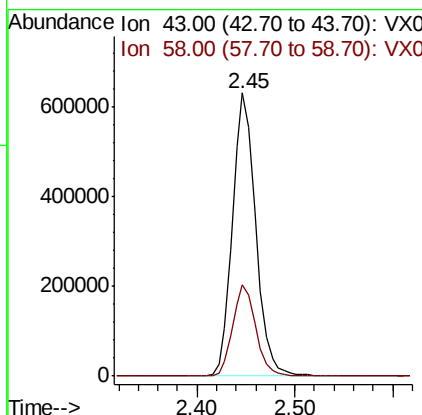
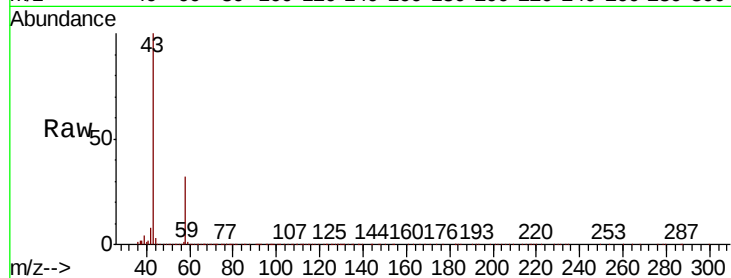




#16  
Acetone  
Concen: 306.166 ug/l  
RT: 2.45 min Scan# 212  
Delta R.T. 0.00 min  
Lab File: VX006718.D  
Acq: 21 Dec 2018 12:49

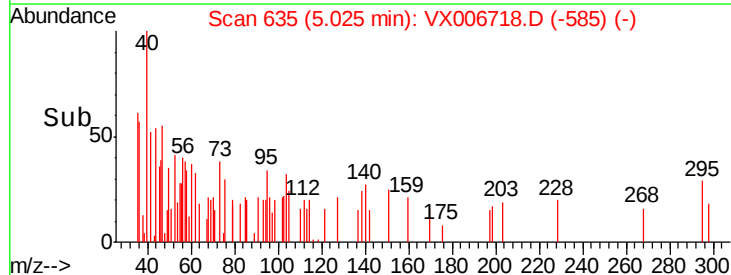
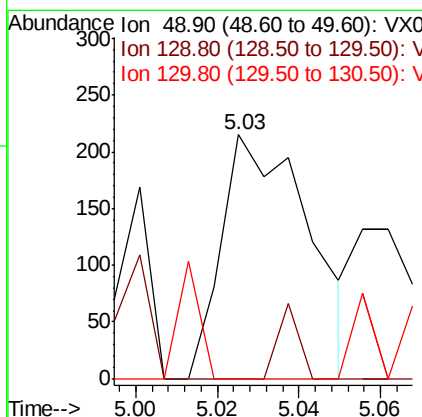
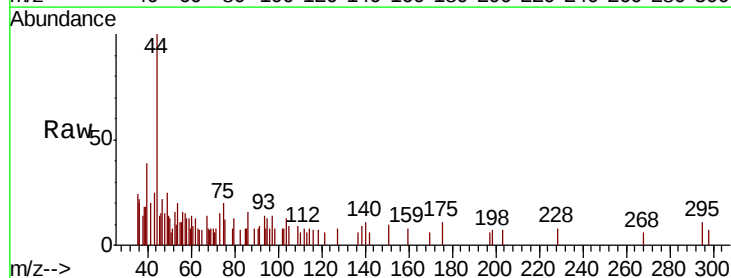
Instrument :  
MSVOA\_X  
ClientSampleId :  
T11-MW-16-10.5-122018

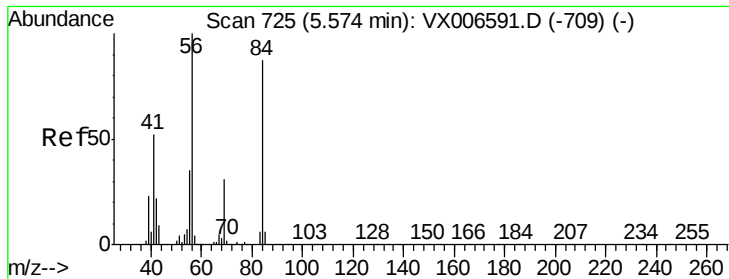
Tot Ion: 43 Resp: 1041105  
Ion Ratio Lower Upper  
43 100  
58 32.4 25.0 37.6



#28  
Bromochloromethane  
Concen: Below Cal  
RT: 5.03 min Scan# 635  
Delta R.T. 0.01 min  
Lab File: VX006718.D  
Acq: 21 Dec 2018 12:49

Tgt Ion: 49 Resp: 321  
Ion Ratio Lower Upper  
49 100  
129 7.5 0.0 5.4#  
130 0.0 77.7 116.5#

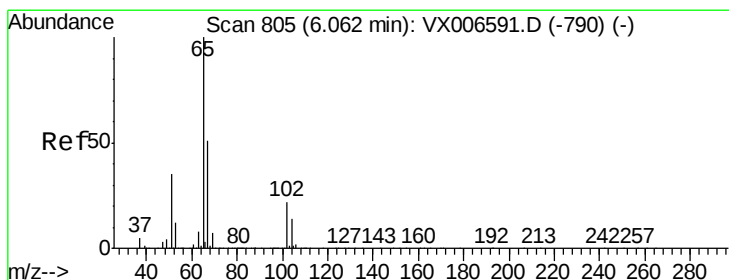
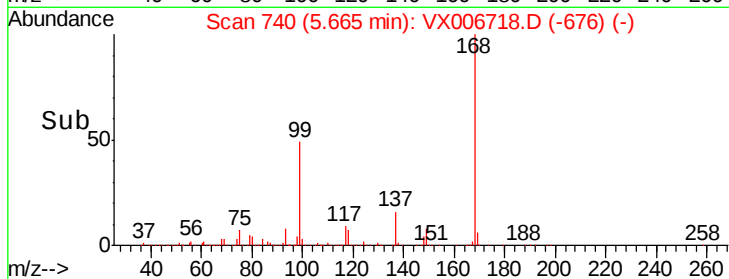
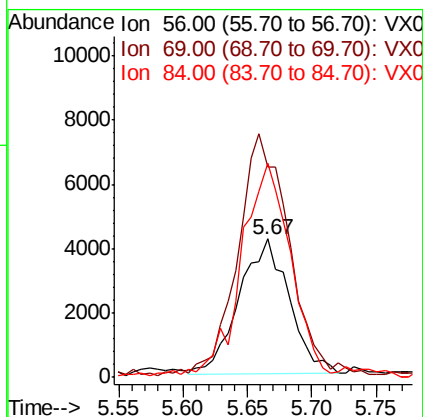
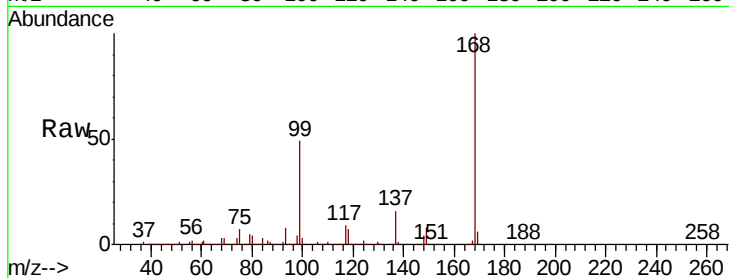




#31  
Cyclohexane  
Concen: 1.117 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. 0.09 min  
Lab File: VX006718.D  
Acq: 21 Dec 2018 12:49

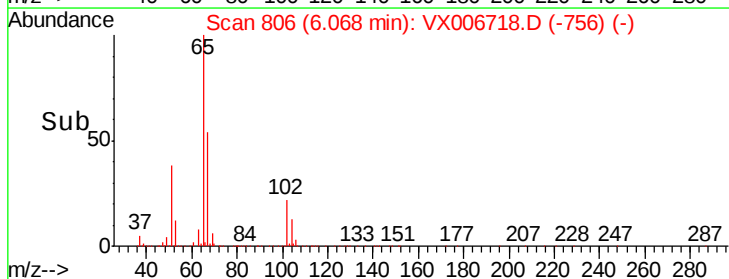
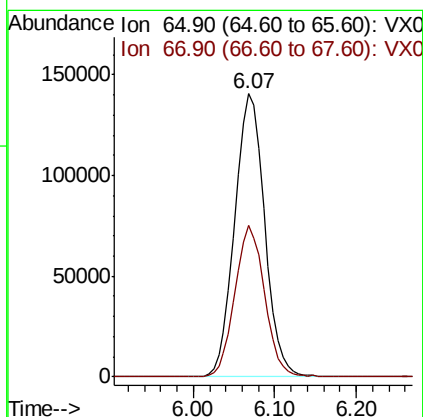
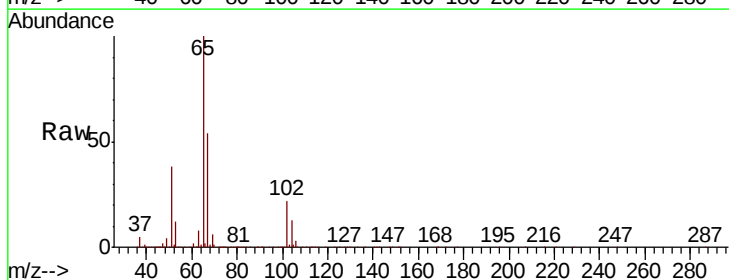
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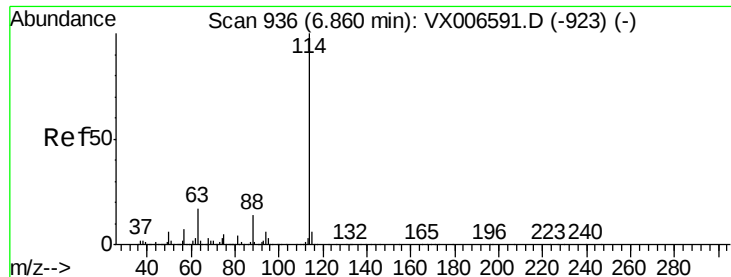
Tot Ion: 56 Resp: 11449  
Ion Ratio Lower Upper  
56 100  
69 152.9 24.4 36.6#  
84 154.4 70.0 105.0#



#33  
1,2-Dichloroethane-d4  
Concen: 48.206 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. 0.01 min  
Lab File: VX006718.D  
Acq: 21 Dec 2018 12:49

Tgt Ion: 65 Resp: 356792  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006718.D

Acq: 21 Dec 2018 12:49

Instrument :

MSVOA\_X

ClientSampleId :

T11-MW-16-10.5-122018

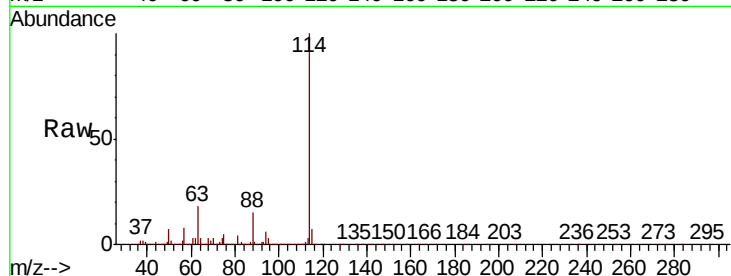
Tot Ion:114 Resp: 1057445

Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.8

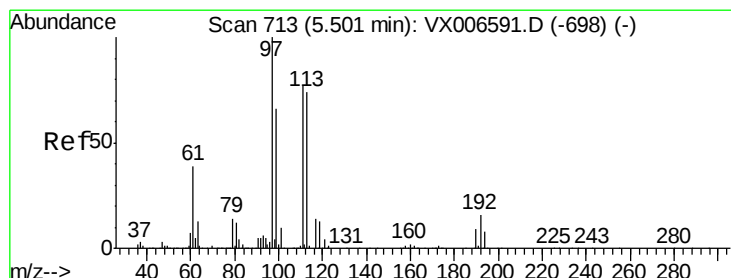
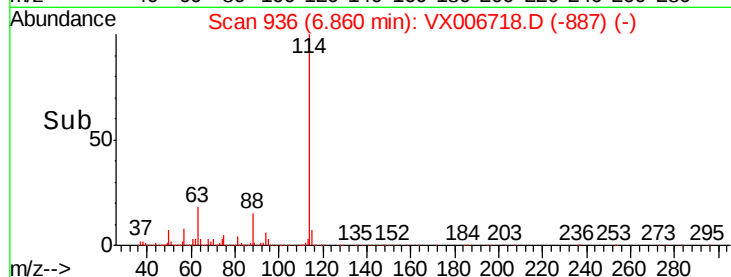
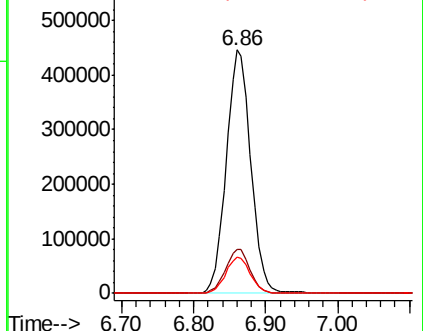
88 14.8 0.0 28.8



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: 46.953 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006718.D

Acq: 21 Dec 2018 12:49

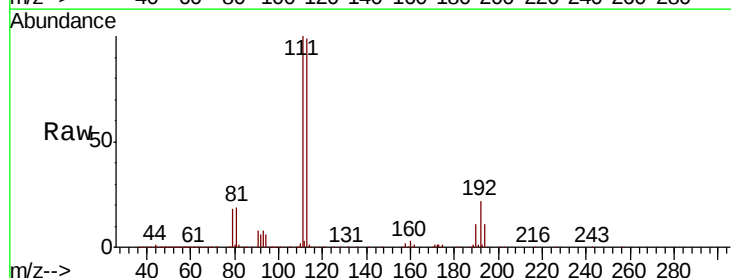
Tgt Ion:113 Resp: 313980

Ion Ratio Lower Upper

113 100

111 101.4 81.6 122.4

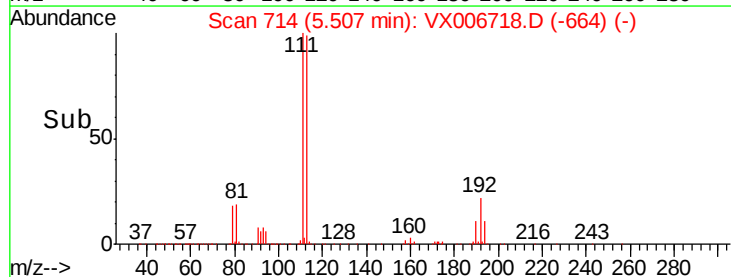
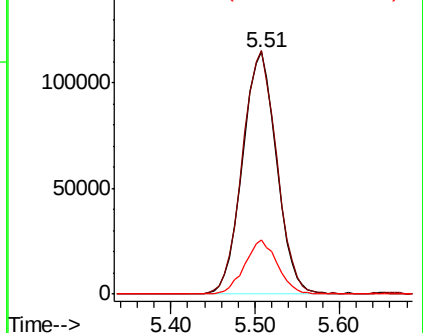
192 21.6 16.7 25.1

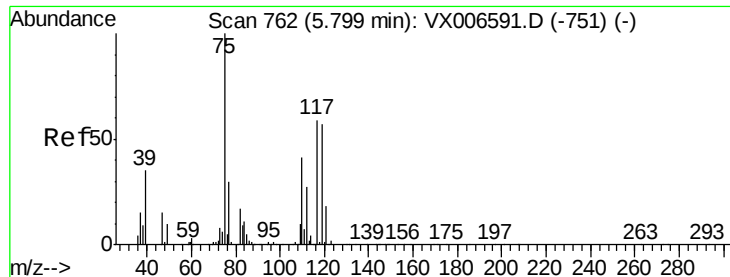


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.937 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006718.D

Acq: 21 Dec 2018 12:49

Instrument :

MSVOA\_X

ClientSampleId :

T11-MW-16-10.5-122018

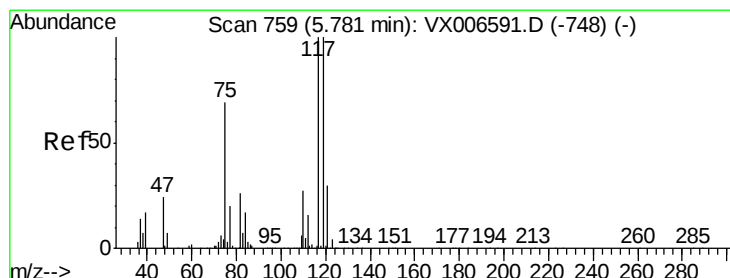
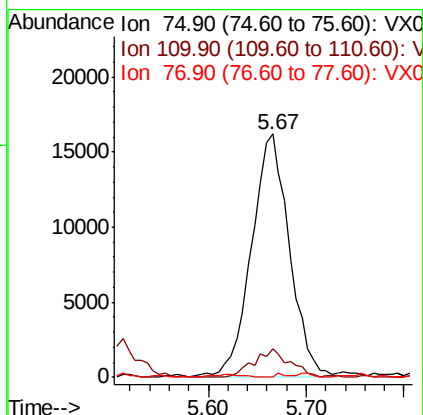
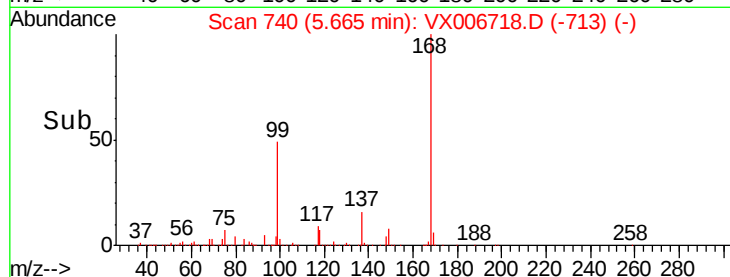
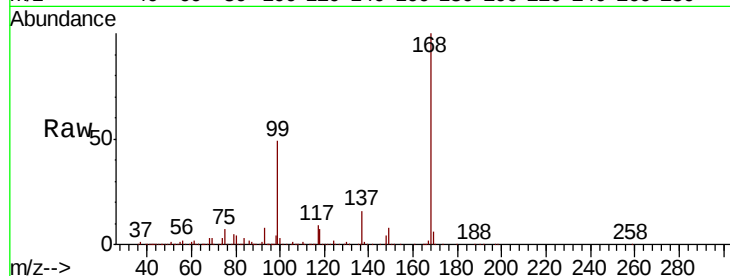
Tot Ion: 75 Resp: 43242

Ion Ratio Lower Upper

75 100

110 11.1 20.2 60.5#

77 0.6 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.276 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006718.D

Acq: 21 Dec 2018 12:49

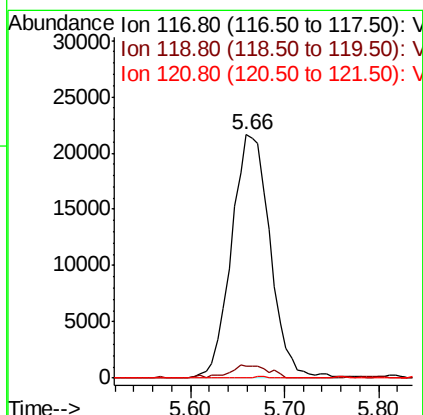
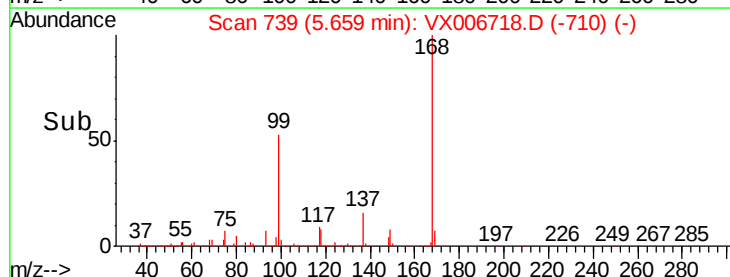
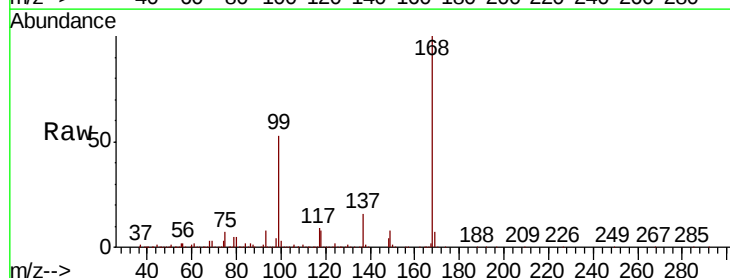
Tgt Ion: 117 Resp: 61929

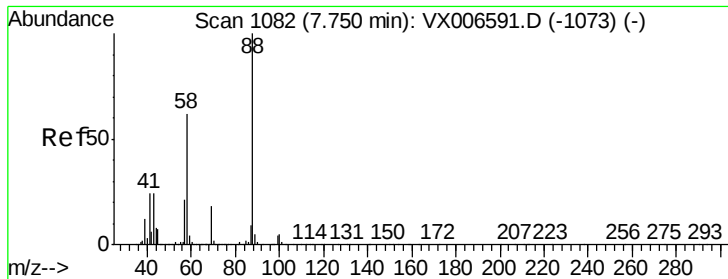
Ion Ratio Lower Upper

117 100

119 4.9 79.4 119.2#

121 0.3 24.0 36.0#

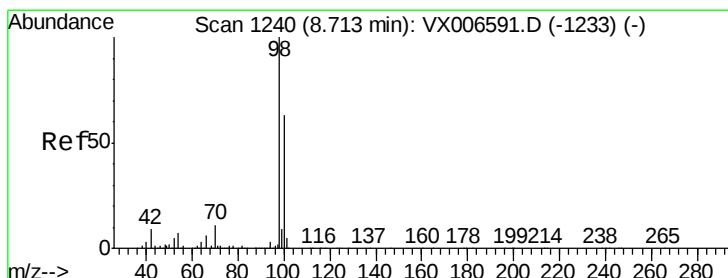
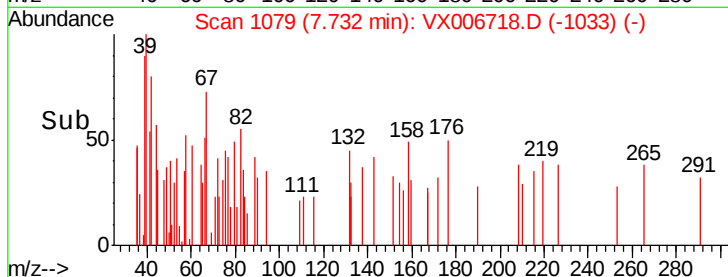
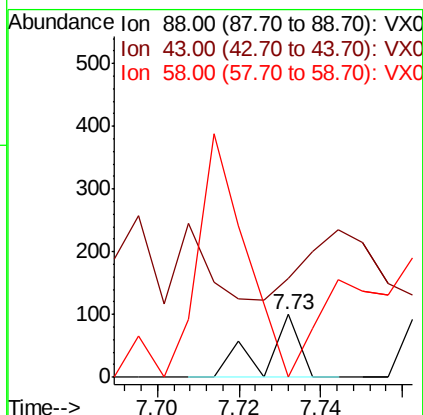
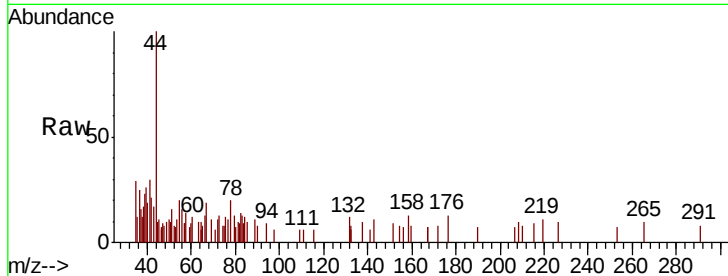




#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 7.73 min Scan# 1079  
Delta R.T. -0.02 min  
Lab File: VX006718.D  
Acq: 21 Dec 2018 12:49

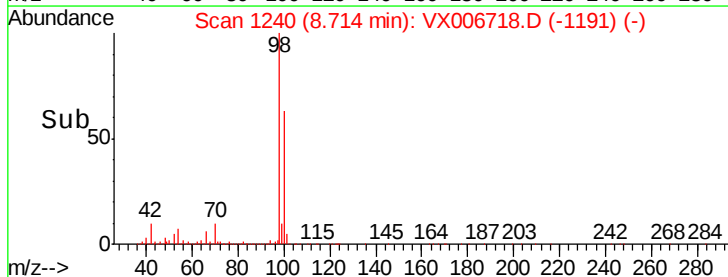
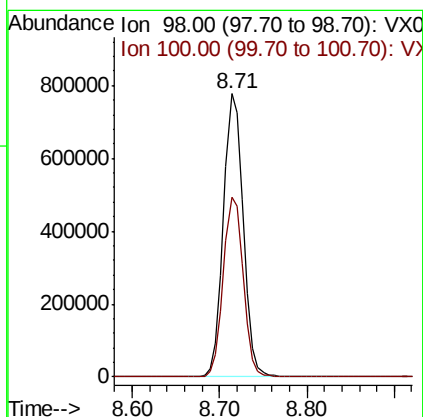
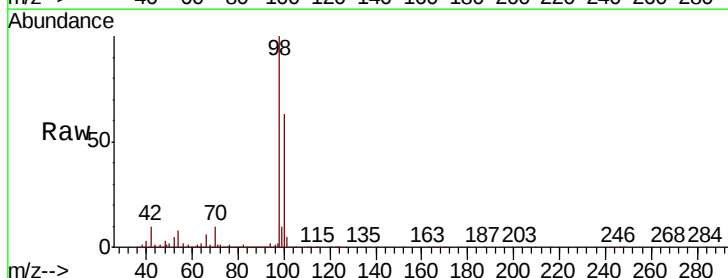
Instrument :  
MSVOA\_X  
ClientSampleId :  
T11-MW-16-10.5-122018

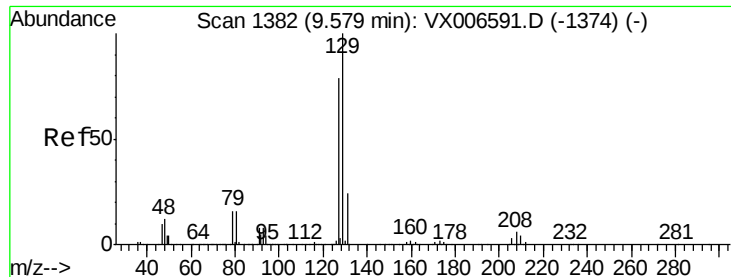
Tot Ion: 88 Resp: 58  
Ion Ratio Lower Upper  
88 100  
43 224.1 22.2 33.4#  
58 0.0 51.0 76.4#



#50  
Toluene-d8  
Concen: 48.438 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX006718.D  
Acq: 21 Dec 2018 12:49

Tgt Ion: 98 Resp: 1221140  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.0 78.0





#60

Dibromochloromethane

Concen: 2.340 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. -0.04 min

Lab File: VX006718.D

Acq: 21 Dec 2018 12:49

Instrument :

MSVOA\_X

ClientSampleId :

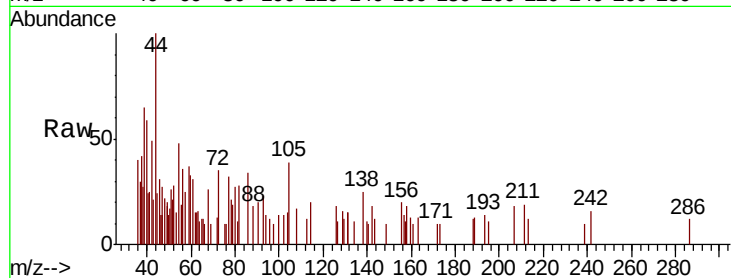
T11-MW-16-10.5-122018

Tot Ion:129 Resp: 125

Ion Ratio Lower Upper

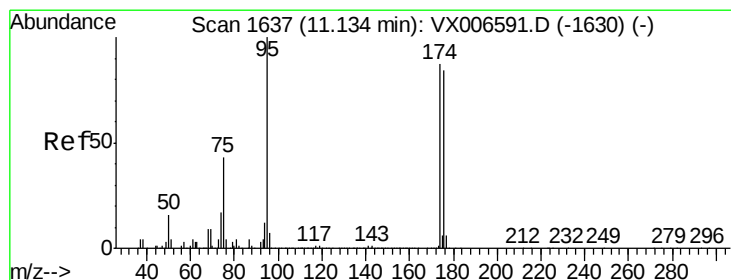
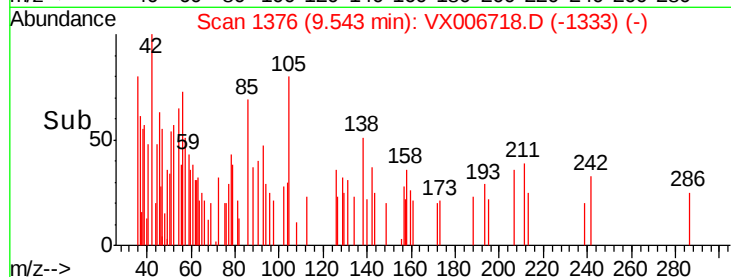
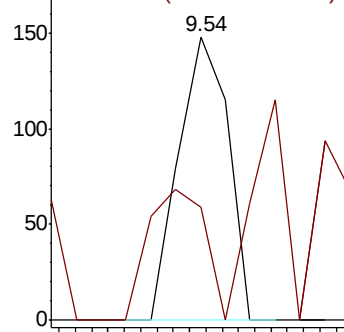
129 100

127 52.8 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.507 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX006718.D

Acq: 21 Dec 2018 12:49

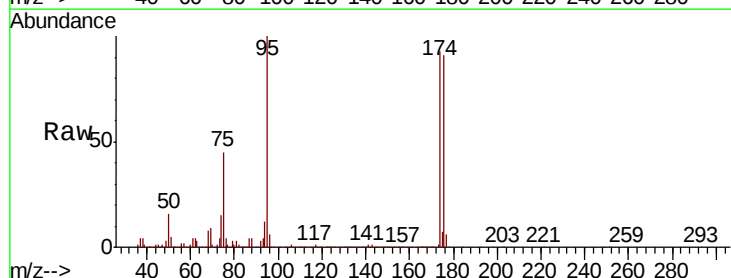
Tgt Ion: 95 Resp: 420177

Ion Ratio Lower Upper

95 100

174 89.4 0.0 182.2

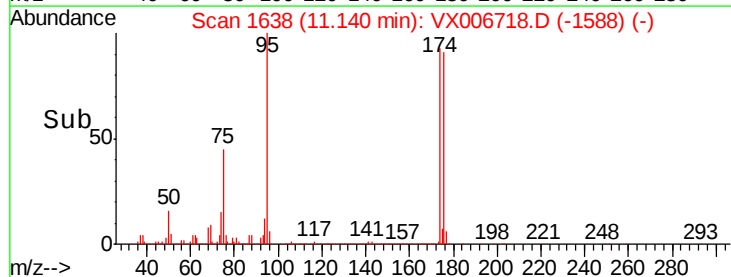
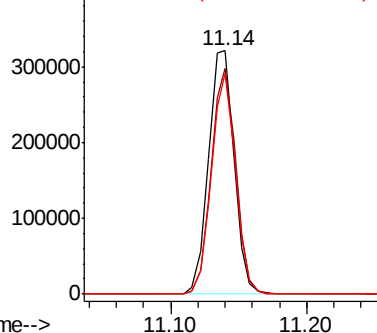
176 86.0 0.0 178.8

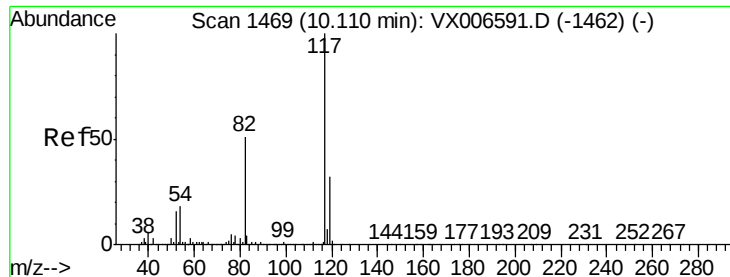


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

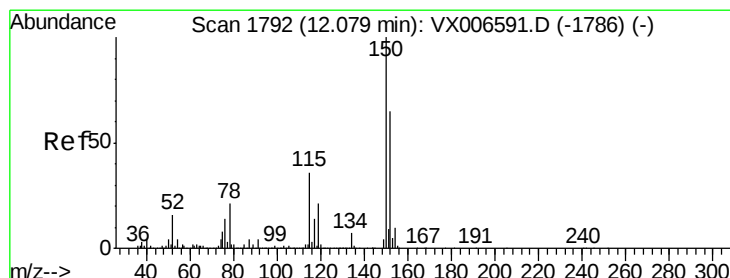
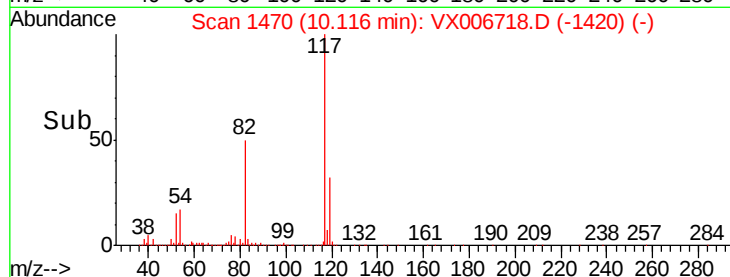
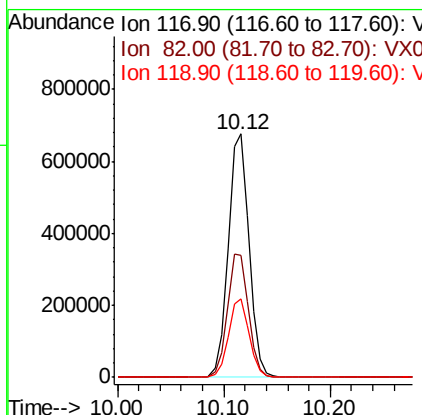
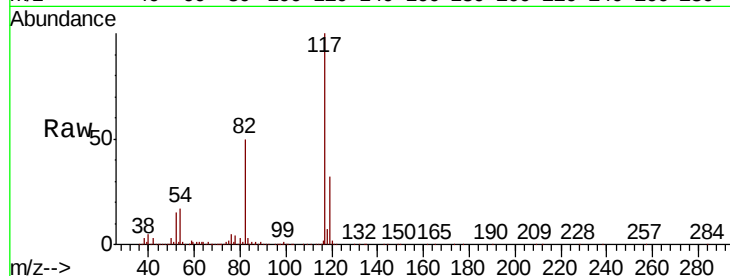




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VX006718.D  
Acq: 21 Dec 2018 12:49

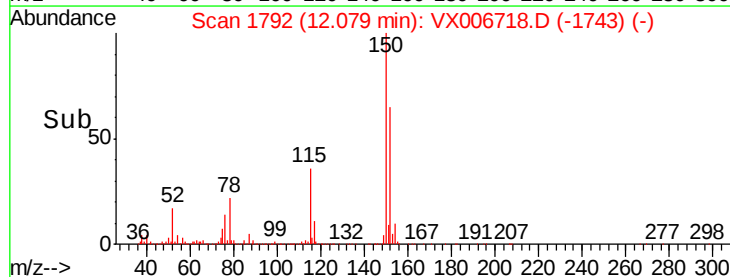
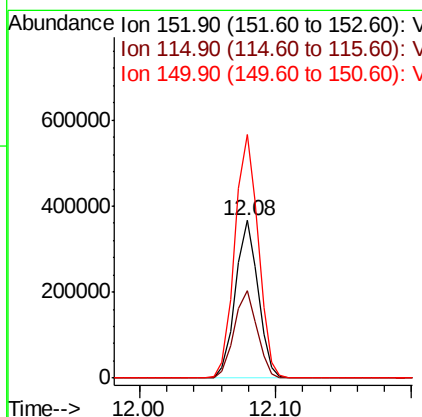
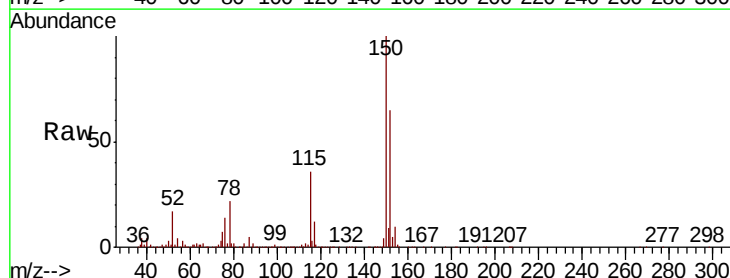
Instrument :  
MSVOA\_X  
ClientSampleId :  
T11-MW-16-10.5-122018

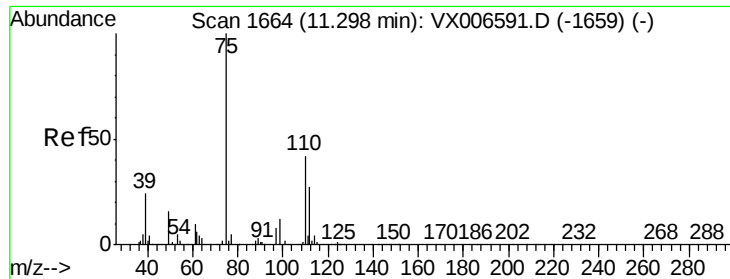
Tot Ion:117 Resp: 928326  
Ion Ratio Lower Upper  
117 100  
82 50.0 41.0 61.6  
119 32.2 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX006718.D  
Acq: 21 Dec 2018 12:49

Tgt Ion:152 Resp: 427959  
Ion Ratio Lower Upper  
152 100  
115 56.1 39.1 117.2  
150 158.9 0.0 344.8

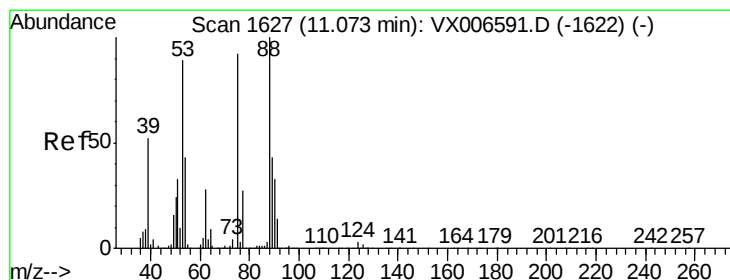
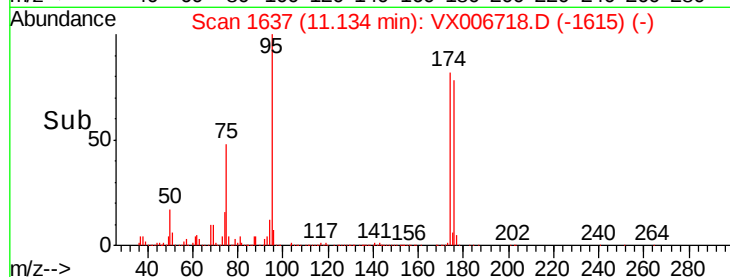
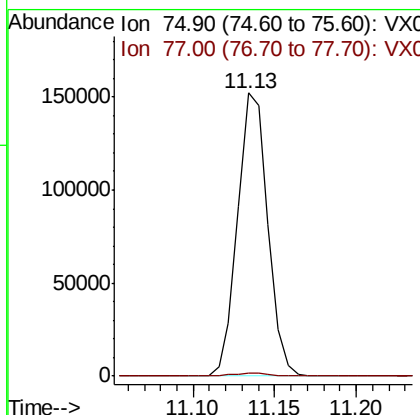
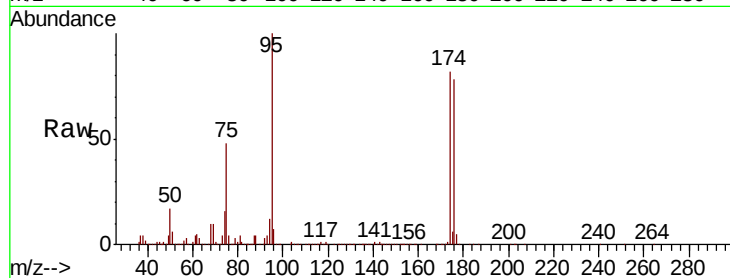




#76  
 1,2,3-Trichloropropane  
 Concen: 24.749 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX006718.D  
 Acq: 21 Dec 2018 12:49

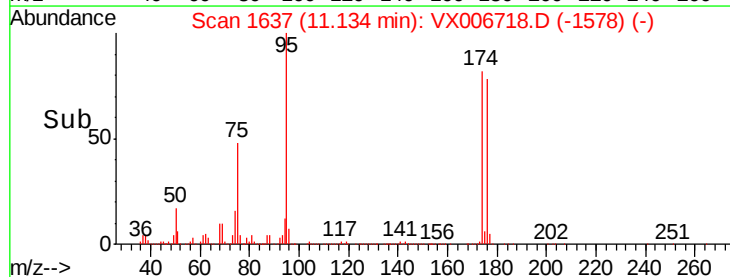
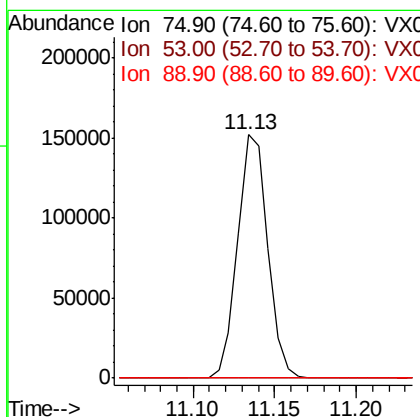
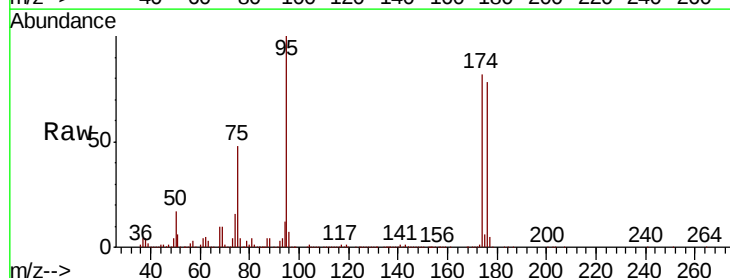
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T11-MW-16-10.5-122018

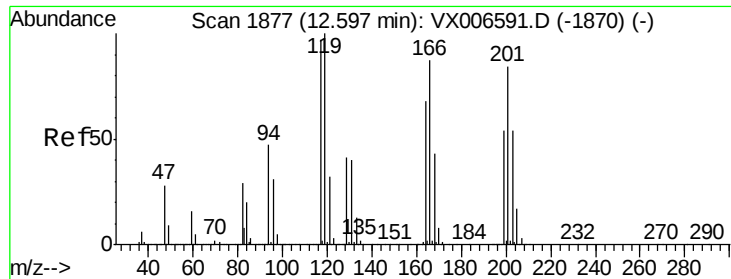
Tot Ion: 75 Resp: 196834  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 18.5 55.5#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 73.175 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX006718.D  
 Acq: 21 Dec 2018 12:49

Tgt Ion: 75 Resp: 196834  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 79.7 119.5#  
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.502 ug/l

RT: 12.66 min Scan# 1888

Delta R.T. 0.07 min

Lab File: VX006718.D

Acq: 21 Dec 2018 12:49

Instrument :

MSVOA\_X

ClientSampleId :

T11-MW-16-10.5-122018

Tot Ion:117 Resp: 912

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.7#

