

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090718\  
 Data File : VX004411.D  
 Acq On : 07 Sep 2018 16:58  
 Operator : JC/MD  
 Sample : J4812-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-1

Quant Time: Sep 08 04:11:01 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 291405   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 469015   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 448014   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 248348   | 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   | 205533   | 54.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 108.22% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 180044   | 51.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 103.20% |          |
| 50) Toluene-d8              | 8.71  | 98   | 670957   | 50.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 101.88% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 239449   | 48.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 97.46%  |          |

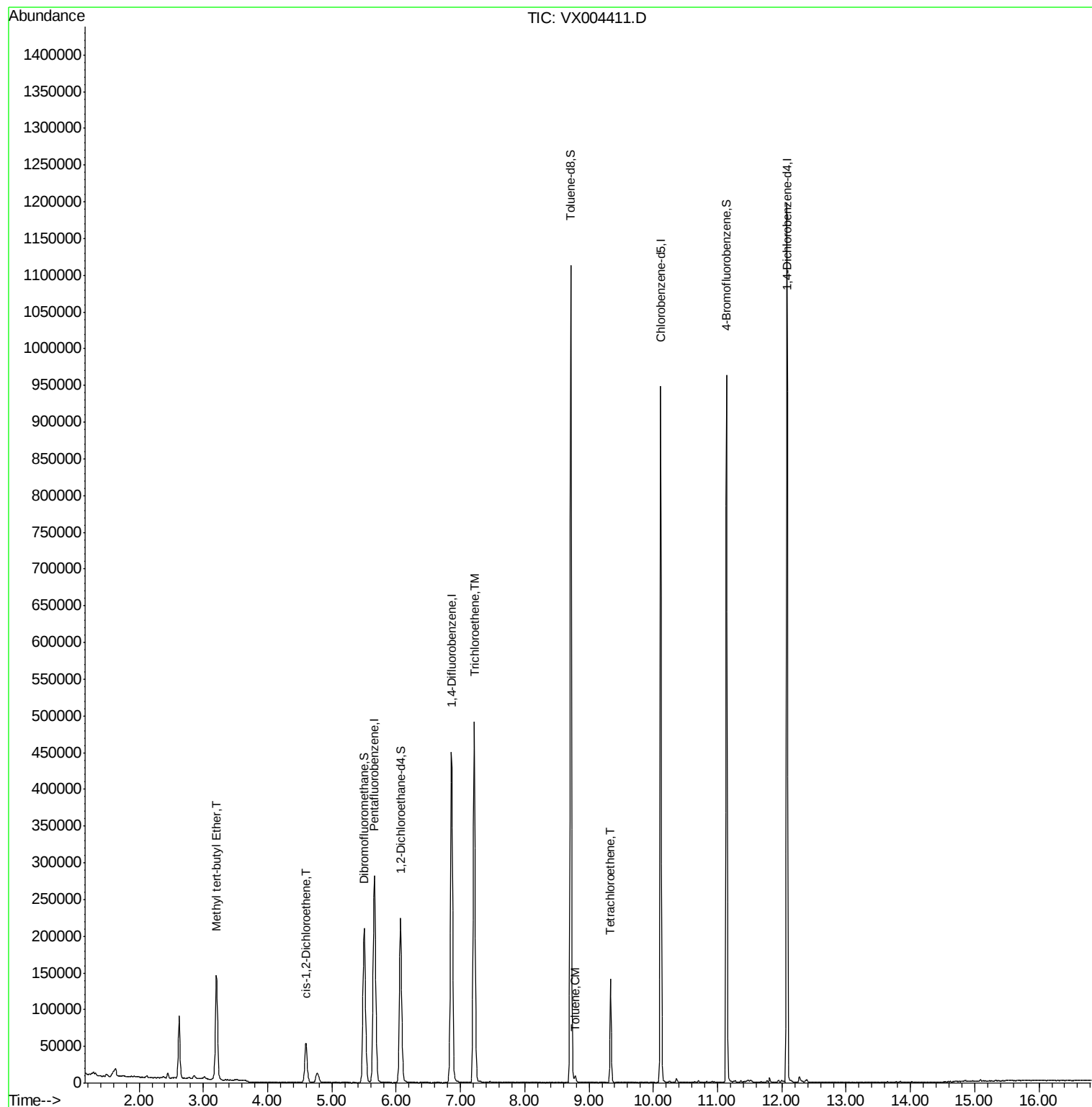
| Target Compounds            | R.T. | QIon | Response | Conc  | Units | Qvalue |
|-----------------------------|------|------|----------|-------|-------|--------|
| 19) Methyl tert-butyl Ether | 3.20 | 73   | 160491   | 15.78 | ug/l  | 97     |
| 27) cis-1,2-Dichloroethene  | 4.59 | 96   | 36365    | 9.38  | ug/l  | 89     |
| 44) Trichloroethene         | 7.21 | 130  | 200629   | 46.00 | ug/l  | 95     |
| 52) Toluene                 | 8.79 | 92   | 2815     | 0.29  | ug/l  | 99     |
| 64) Tetrachloroethene       | 9.33 | 164  | 28839    | 6.52  | ug/l  | 94     |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 23 05:39:44 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA\_X

ClientSampleId :

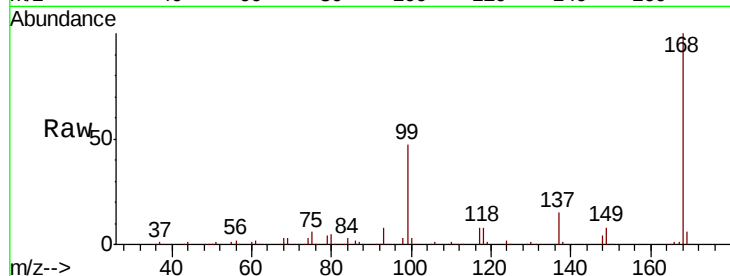
MW-1

Tot Ion:168 Resp: 291405

Ion Ratio Lower Upper

168 100

99 46.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

60000

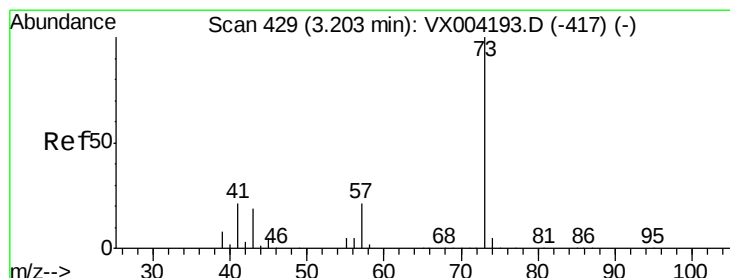
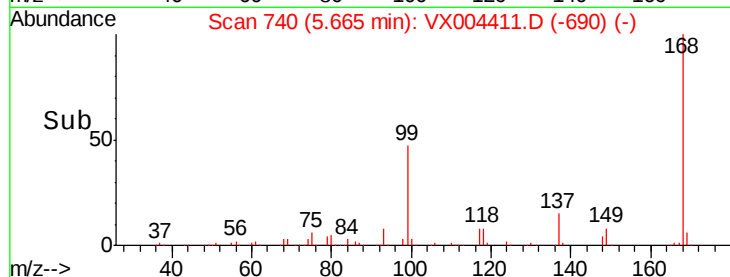
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#19

Methyl tert-butyl Ether

Concen: 15.78 ug/l

RT: 3.20 min Scan# 336

Delta R.T. -0.00 min

Lab File: VX004411.D

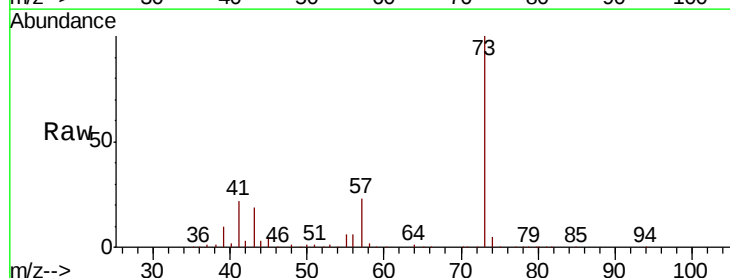
Acq: 07 Sep 2018 16:58

Tgt Ion: 73 Resp: 160491

Ion Ratio Lower Upper

73 100

57 22.6 17.1 25.7



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.20

80000

60000

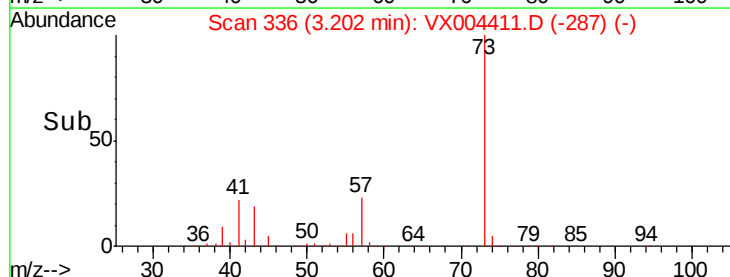
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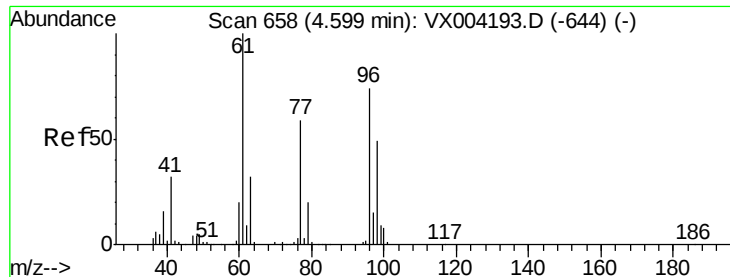
20000

0

Time-->

3.10 3.20 3.30





#27

cis-1,2-Dichloroethene

Concen: 9.38 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA\_X

ClientSampled :

MW-1

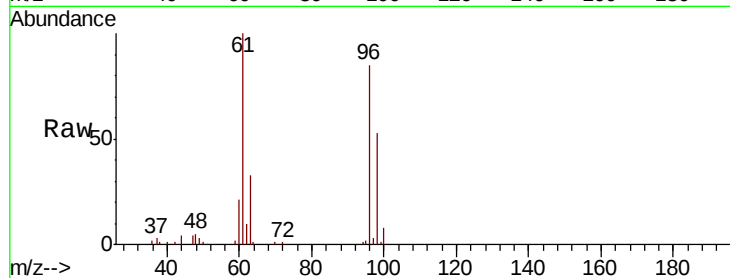
Tot Ion: 96 Resp: 36365

Ion Ratio Lower Upper

96 100

61 122.8 0.0 282.6

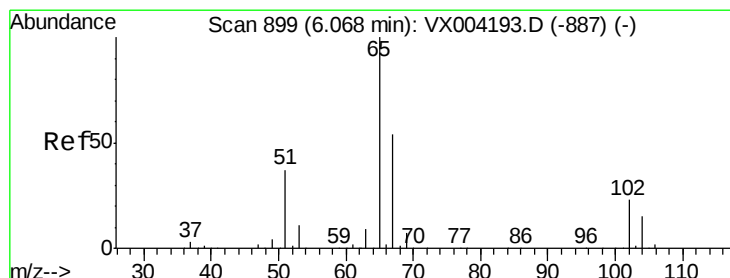
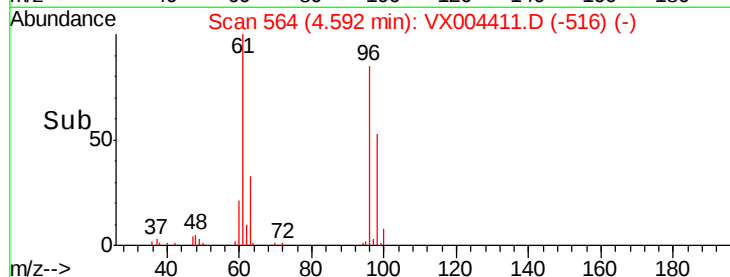
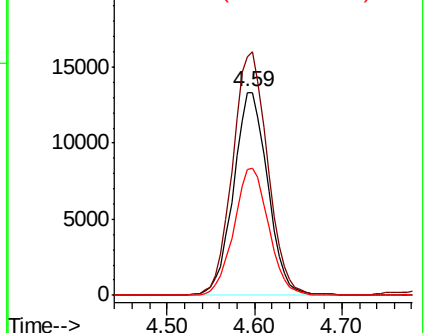
98 63.3 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.11 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004411.D

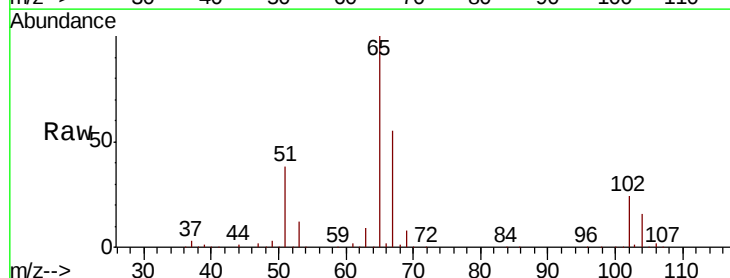
Acq: 07 Sep 2018 16:58

Tgt Ion: 65 Resp: 205533

Ion Ratio Lower Upper

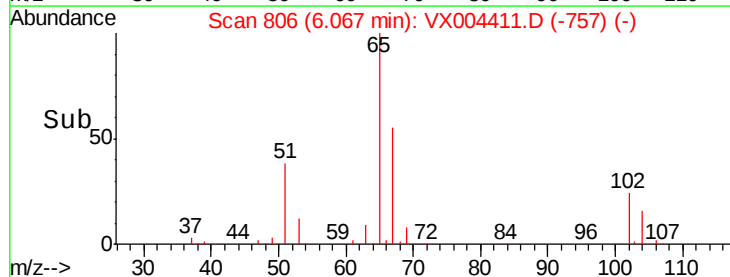
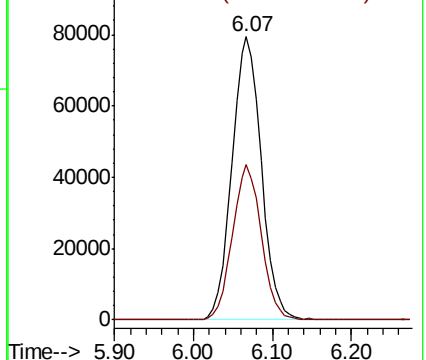
65 100

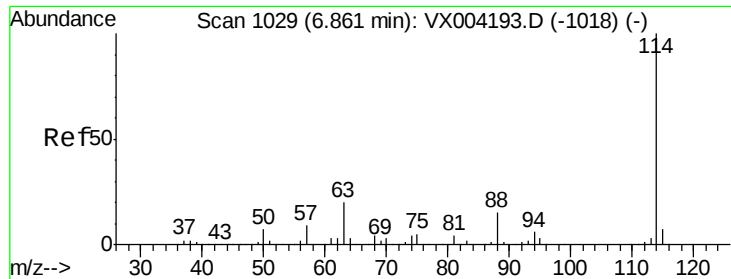
67 53.7 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

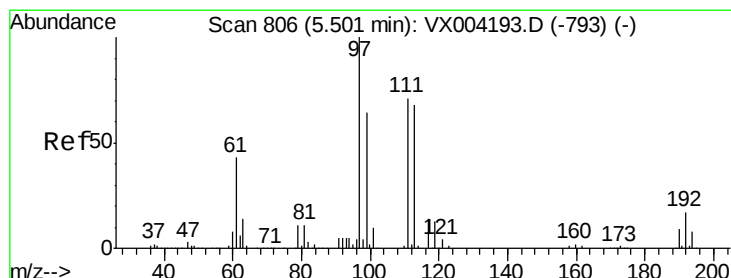
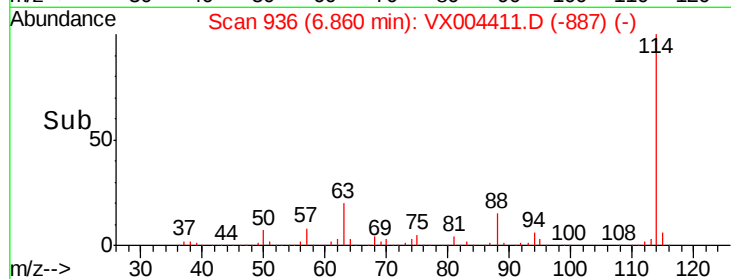
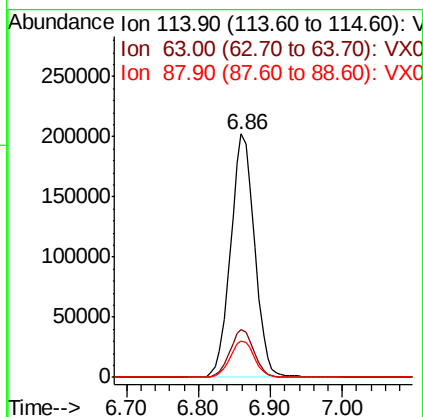
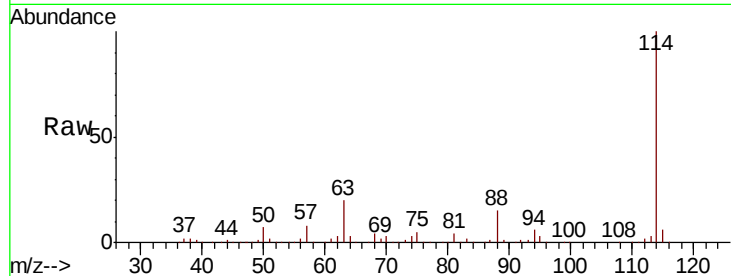




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX004411.D  
 Acq: 07 Sep 2018 16:58

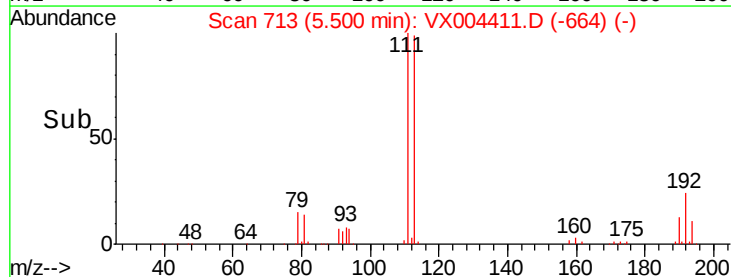
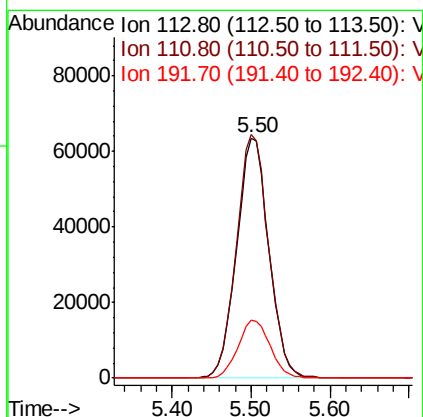
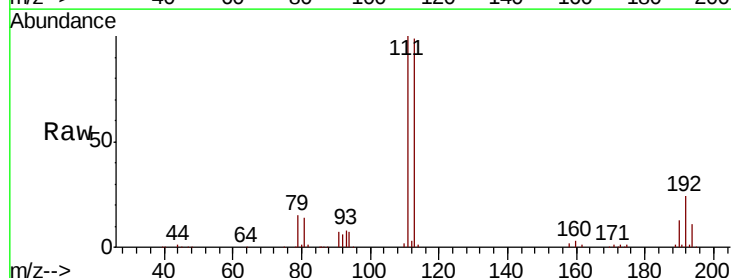
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-1

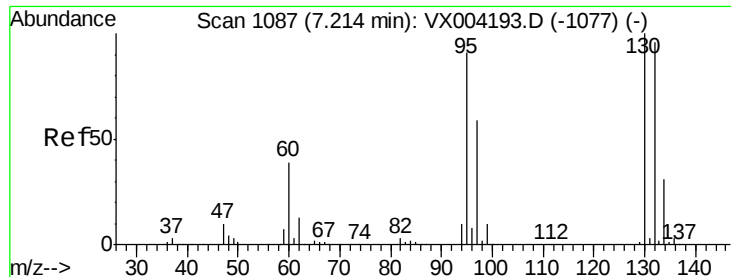
Tot Ion:114 Resp: 469015  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 39.0  
 88 15.1 0.0 30.4



#35  
 Dibromofluoromethane  
 Concen: 51.60 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX004411.D  
 Acq: 07 Sep 2018 16:58

Tgt Ion:113 Resp: 180044  
 Ion Ratio Lower Upper  
 113 100  
 111 101.9 82.4 123.6  
 192 24.1 19.4 29.2





#44

Trichloroethene

Concen: 46.00 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA\_X

ClientSampled :

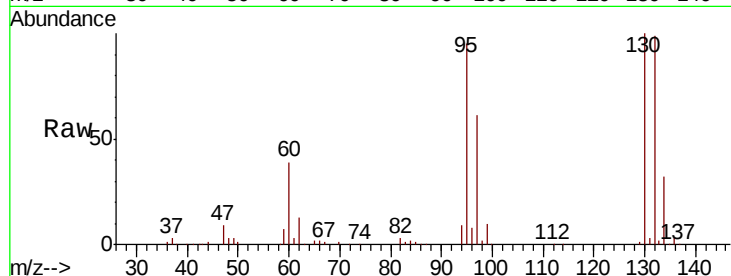
MW-1

Tot Ion:130 Resp: 200629

Ion Ratio Lower Upper

130 100

95 95.2 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

100000

80000

60000

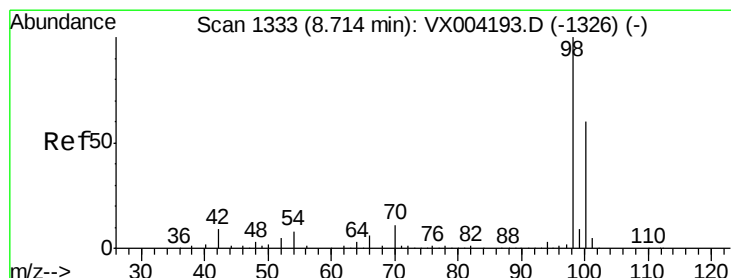
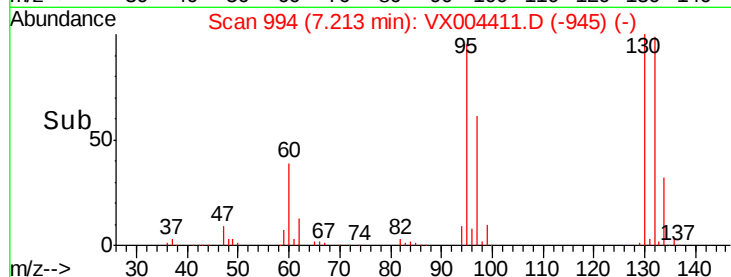
40000

20000

0

Time-->

7.10 7.20 7.30 7.40



#50

Toluene-d8

Concen: 50.94 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004411.D

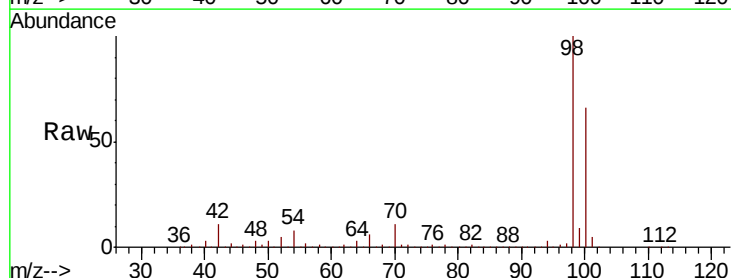
Acq: 07 Sep 2018 16:58

Tgt Ion: 98 Resp: 670957

Ion Ratio Lower Upper

98 100

100 66.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

500000

400000

300000

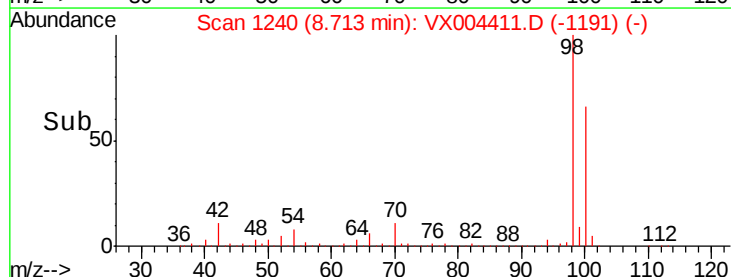
200000

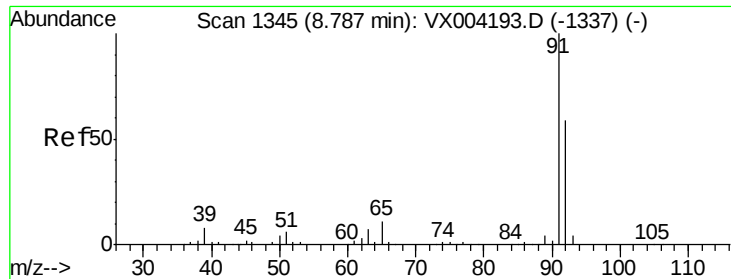
100000

0

Time-->

8.60 8.70 8.80 8.90





#52

Toluene

Concen: 0.29 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA\_X

ClientSampleId :

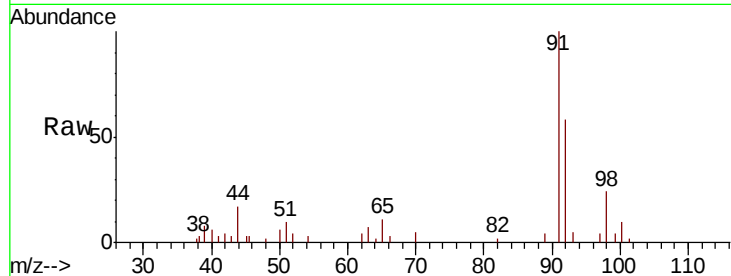
MW-1

Tot Ion: 92 Resp: 2815

Ion Ratio Lower Upper

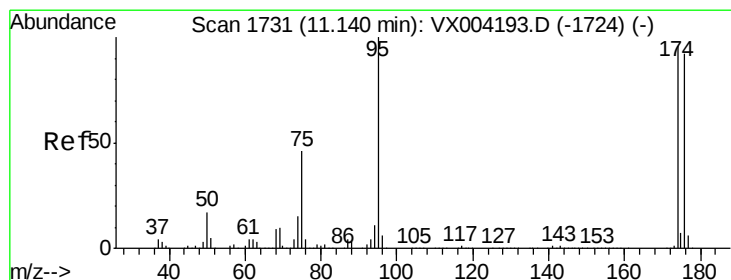
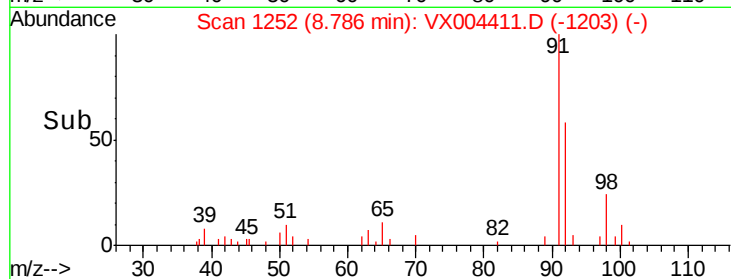
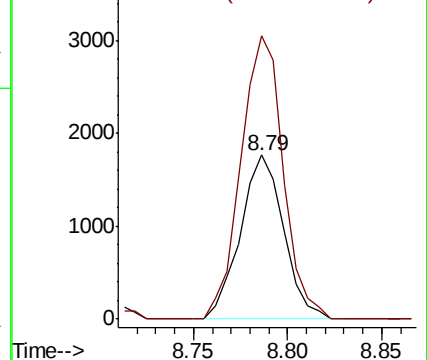
92 100

91 168.6 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 48.73 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

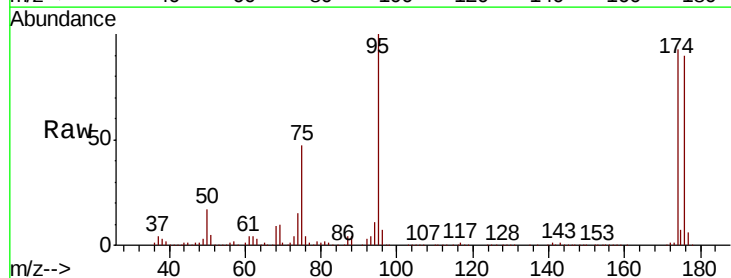
Tgt Ion: 95 Resp: 239449

Ion Ratio Lower Upper

95 100

174 91.5 0.0 185.2

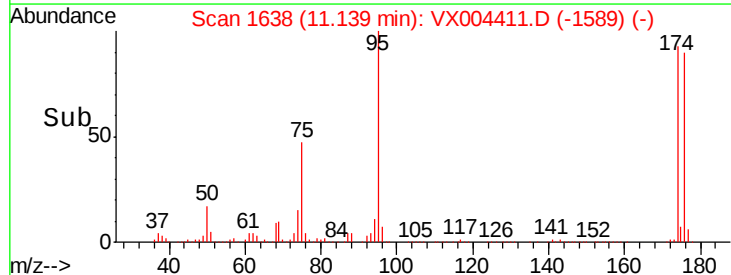
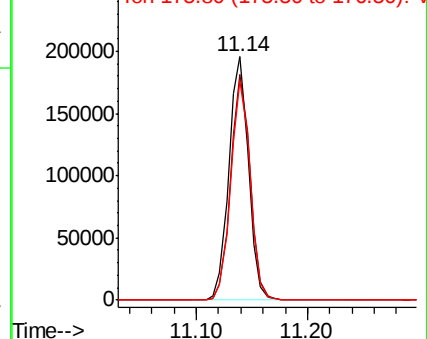
176 88.7 0.0 178.6

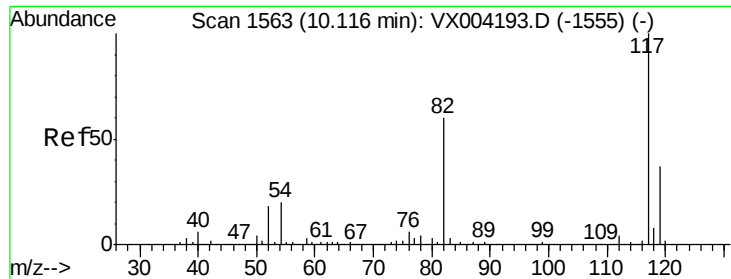


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

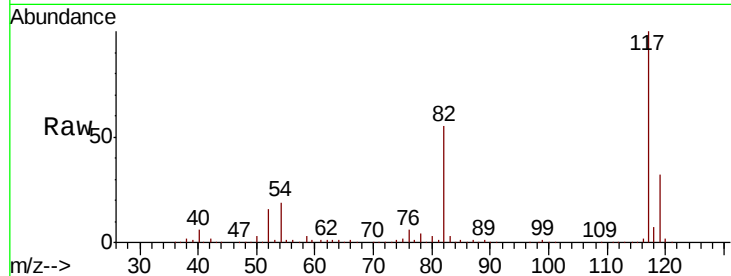




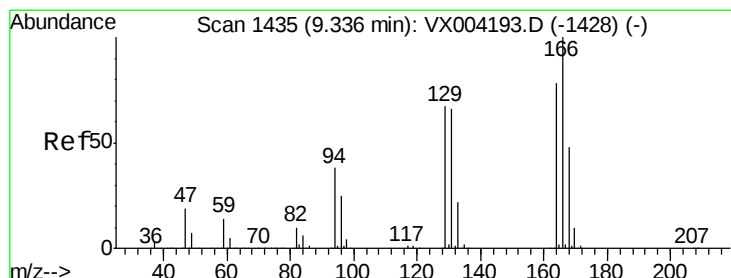
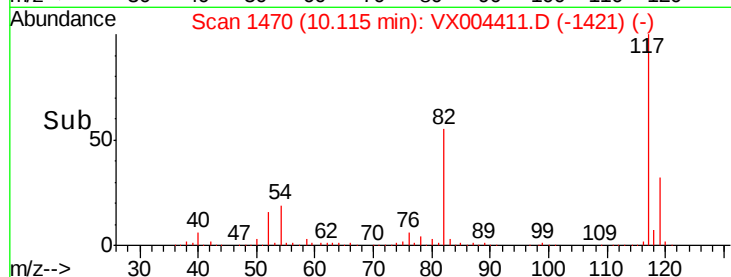
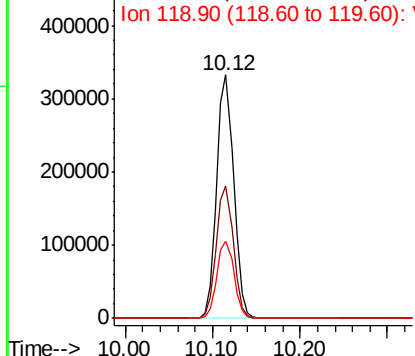
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VX004411.D  
Acq: 07 Sep 2018 16:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-1

Tot Ion:117 Resp: 448014  
Ion Ratio Lower Upper  
117 100  
82 54.5 47.8 71.6  
119 31.9 29.3 43.9

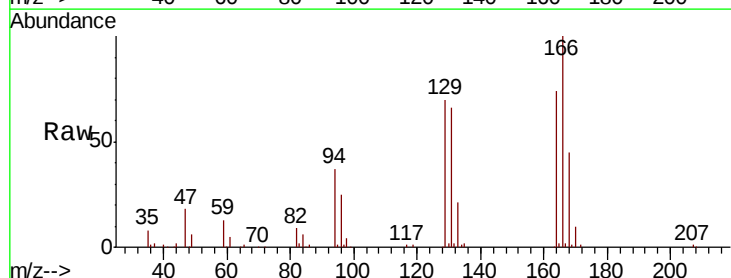


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

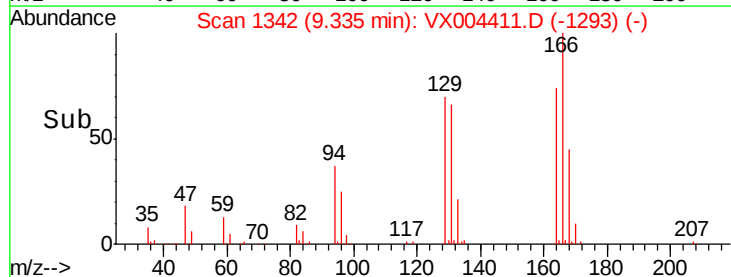
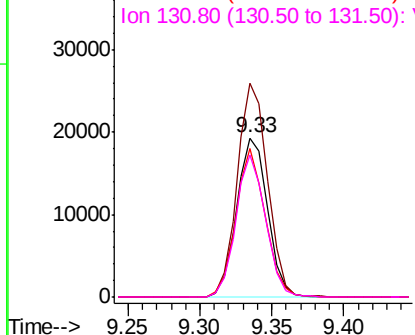


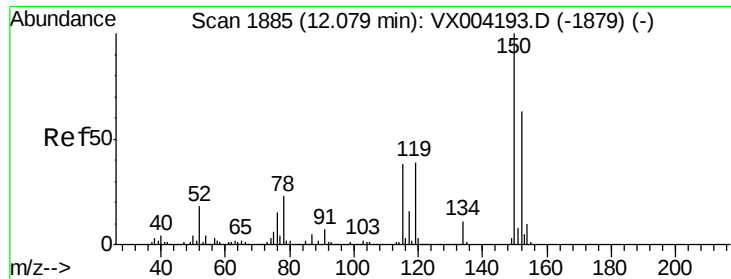
#64  
Tetrachloroethene  
Concen: 6.52 ug/l  
RT: 9.33 min Scan# 1342  
Delta R.T. -0.00 min  
Lab File: VX004411.D  
Acq: 07 Sep 2018 16:58

Tgt Ion:164 Resp: 28839  
Ion Ratio Lower Upper  
164 100  
166 134.5 102.8 154.2  
129 93.8 69.4 104.0  
131 89.2 67.9 101.9



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: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA\_X

ClientSampleId :

MW-1

Tot Ion:152 Resp: 248348

Ion Ratio Lower Upper

152 100

115 55.5 39.0 117.0

150 158.8 0.0 351.0

