

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060918\  
 Data File : VX002423.D  
 Acq On : 09 Jun 2018 16:09  
 Operator : JC/MD  
 Sample : J3396-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 W-51

Quant Time: Jun 11 04:48:48 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 218135   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 316658   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 291225   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 158883   | 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   | 151453   | 48.45 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.90% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 115631   | 46.43 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.86% |          |
| 50) Toluene-d8              | 8.72  | 98   | 453681   | 47.53 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.06% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 156880   | 42.62 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.24% |          |

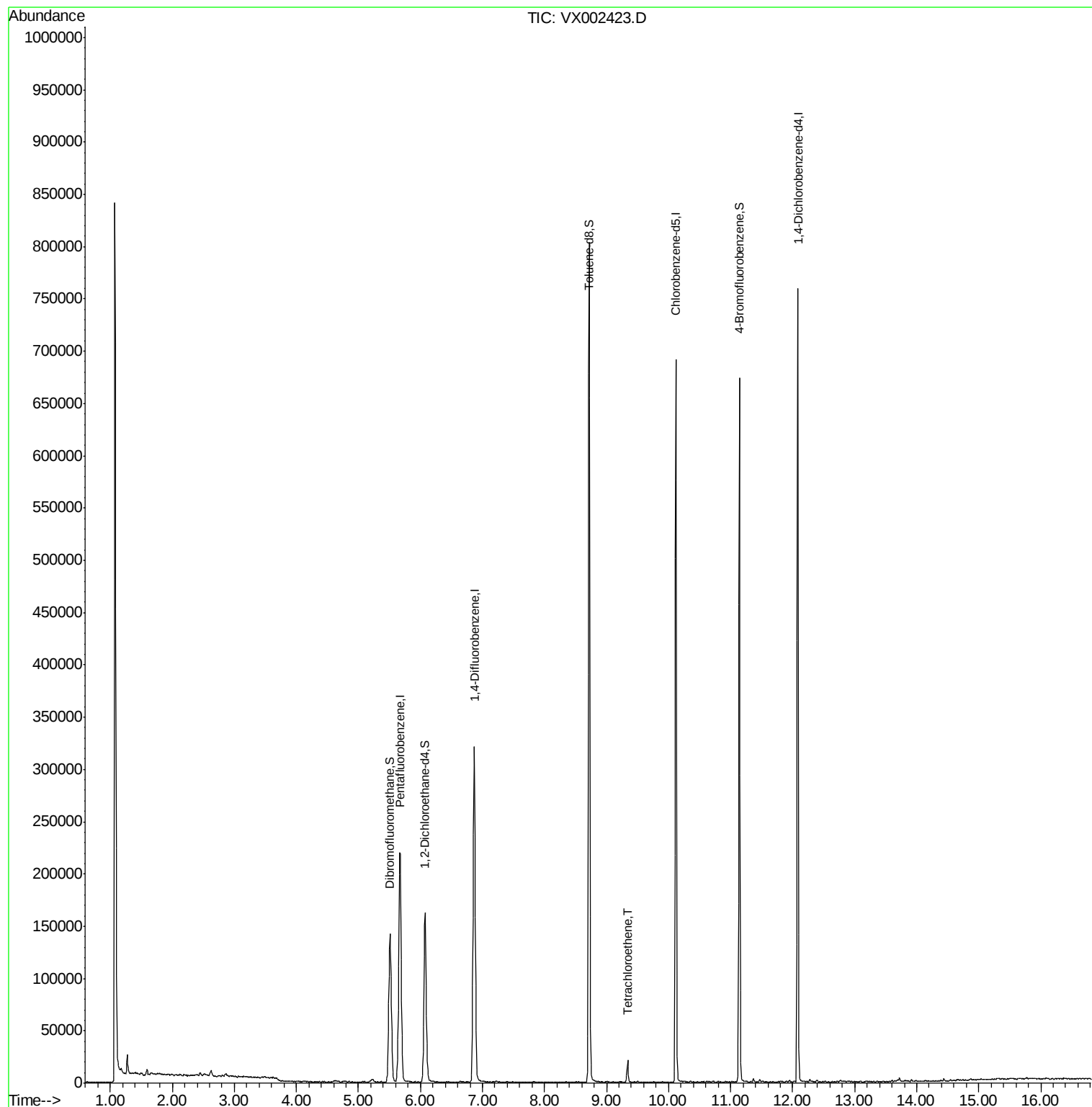
| Target Compounds      | R.T. | QIon | Response | Conc | Units | Qvalue |
|-----------------------|------|------|----------|------|-------|--------|
| 64) Tetrachloroethene | 9.34 | 164  | 3972     | 1.32 | ug/l  | 94     |

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

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Quant Time: Jun 11 04:48:48 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 05 03:22:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

Instrument :

MSVOA\_X

ClientSampled :

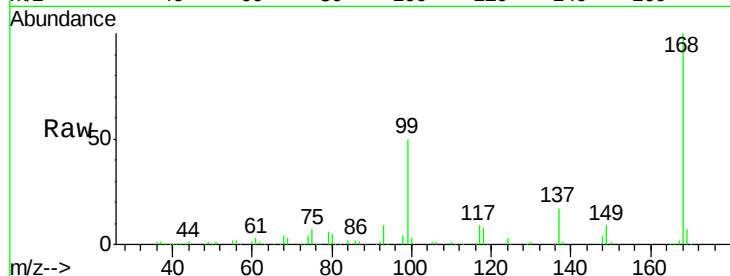
W-51

Tot Ion:168 Resp: 218135

Ion Ratio Lower Upper

168 100

99 49.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

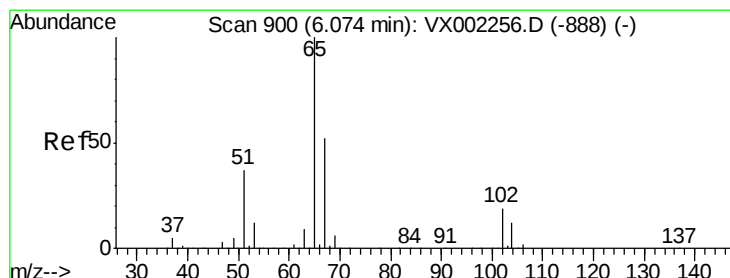
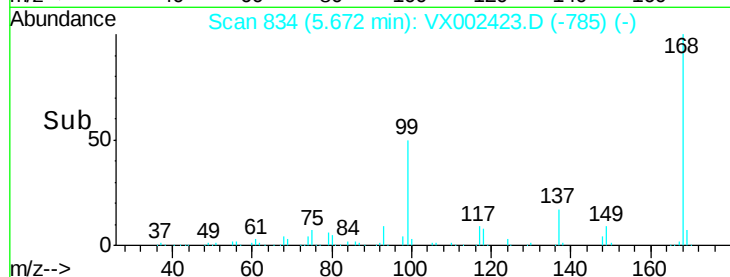
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 48.45 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002423.D

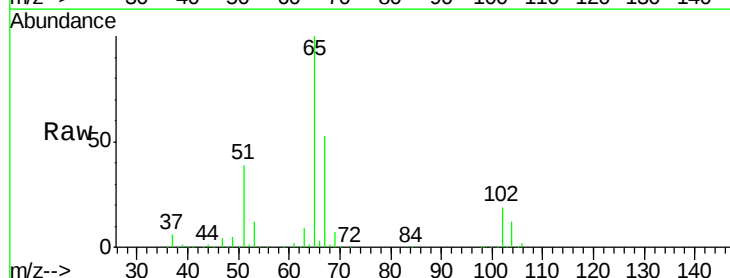
Acq: 09 Jun 2018 16:09

Tgt Ion: 65 Resp: 151453

Ion Ratio Lower Upper

65 100

67 51.0 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

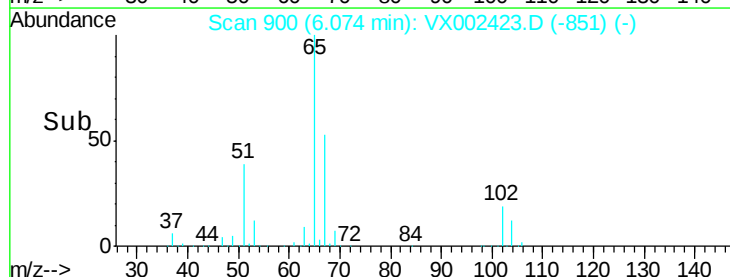
60000

40000

20000

0

Time--> 6.00 6.10 6.20





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

Instrument :

MSVOA\_X

ClientSampleId :

W-51

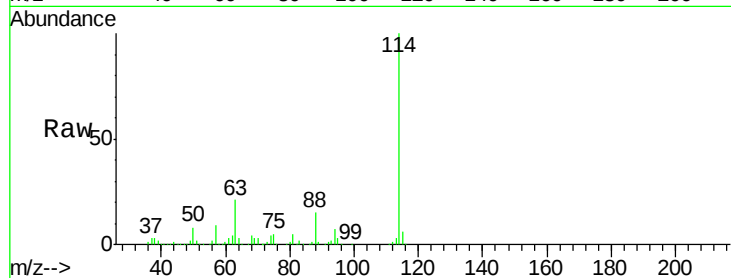
Tot Ion:114 Resp: 316658

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.4

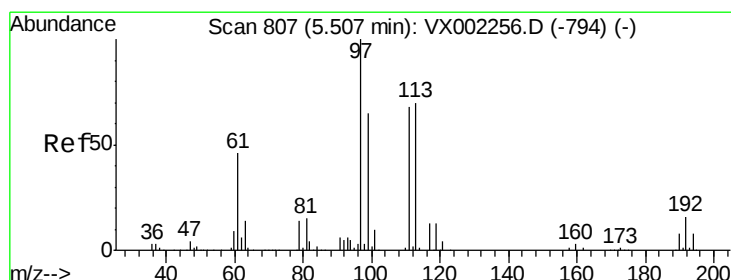
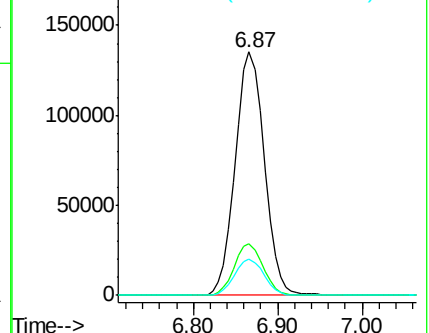
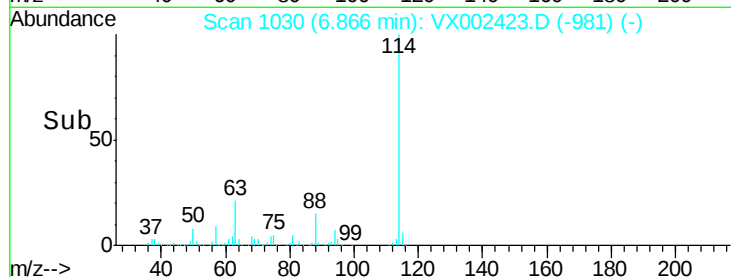
88 14.8 0.0 30.0



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: 46.43 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

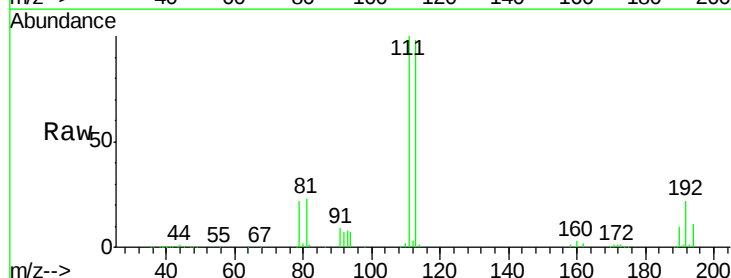
Tgt Ion:113 Resp: 115631

Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.0

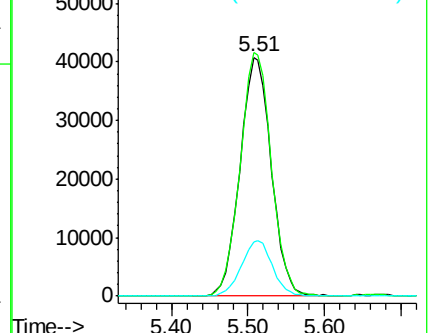
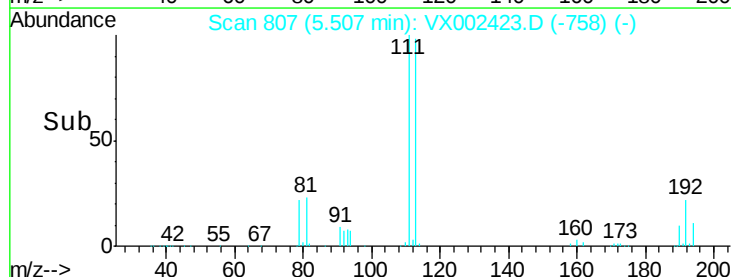
192 23.1 19.1 28.7

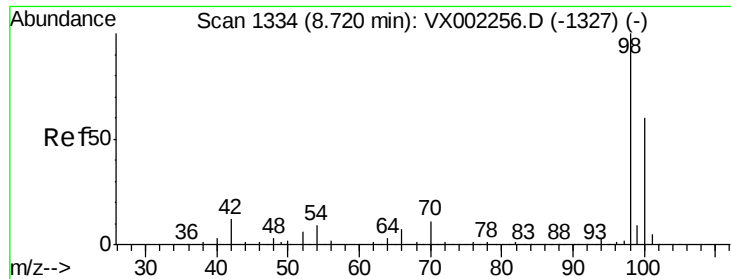


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

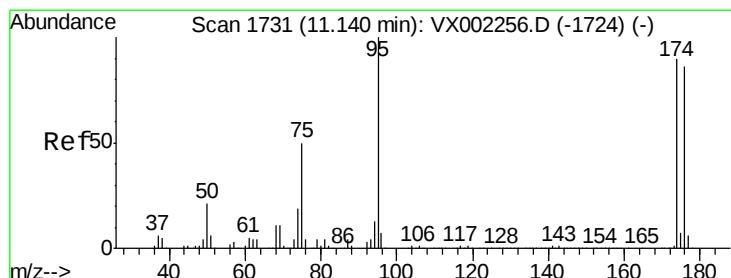
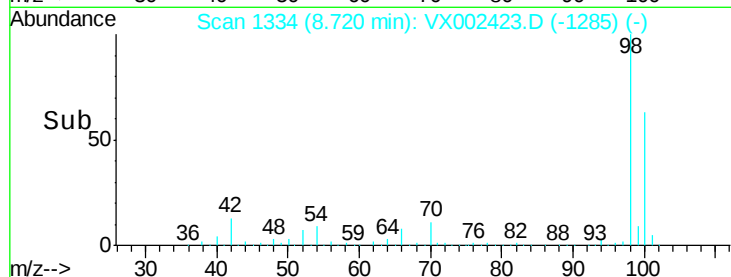
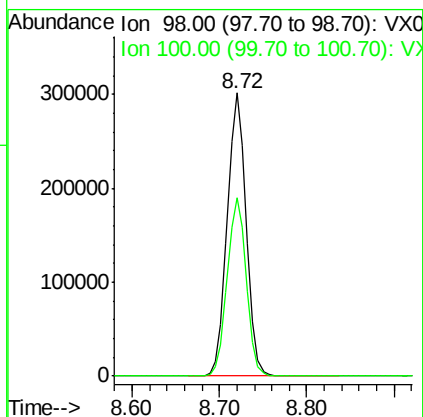
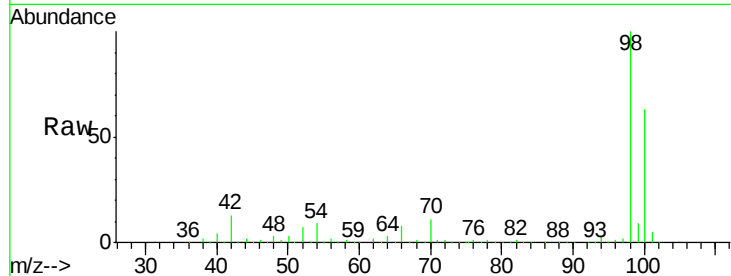




#50  
Toluene-d8  
Concen: 47.53 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VX002423.D  
Acq: 09 Jun 2018 16:09

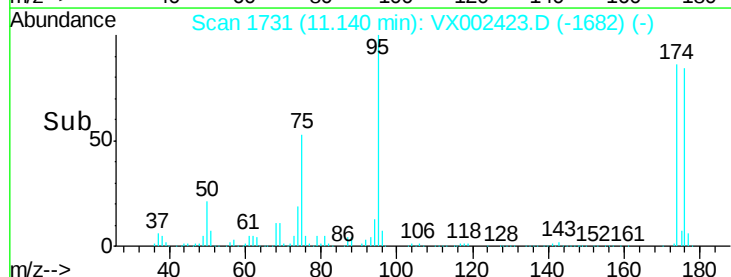
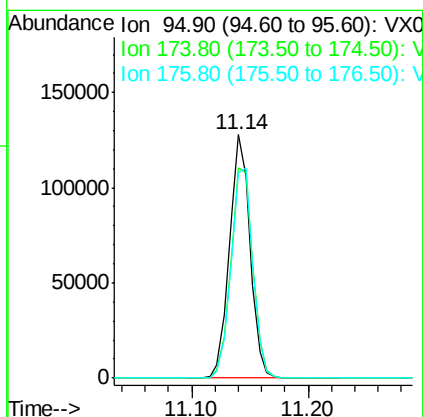
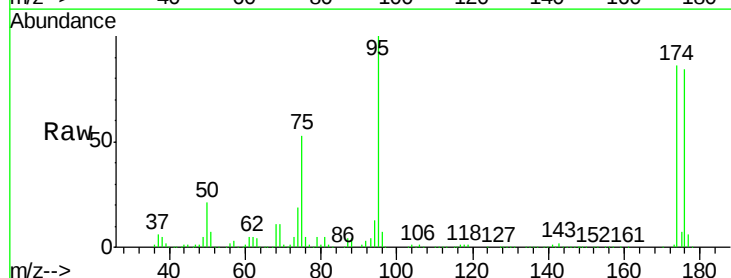
Instrument :  
MSVOA\_X  
ClientSampleId :  
W-51

Tot Ion: 98 Resp: 453681  
Ion Ratio Lower Upper  
98 100  
100 63.4 50.9 76.3



#62  
4-Bromofluorobenzene  
Concen: 42.62 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. -0.00 min  
Lab File: VX002423.D  
Acq: 09 Jun 2018 16:09

Tgt Ion: 95 Resp: 156880  
Ion Ratio Lower Upper  
95 100  
174 92.8 0.0 187.4  
176 91.6 0.0 181.0

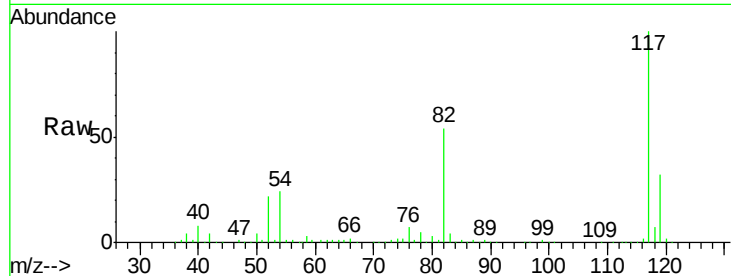




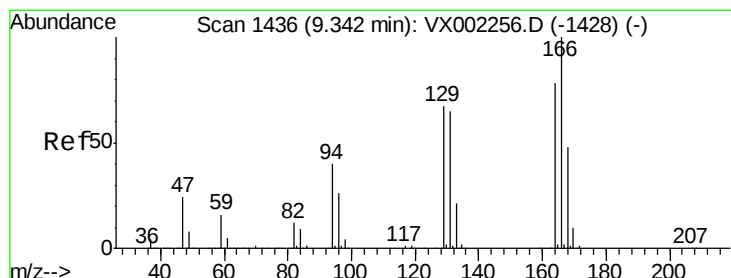
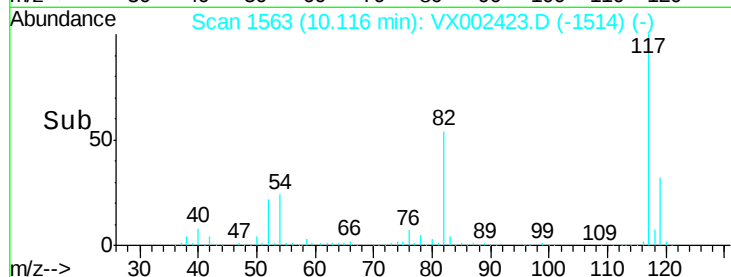
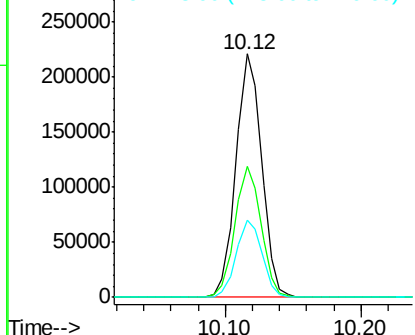
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX002423.D  
Acq: 09 Jun 2018 16:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
W-51

Tot Ion:117 Resp: 291225  
Ion Ratio Lower Upper  
117 100  
82 53.7 45.0 67.4  
119 31.9 25.8 38.6

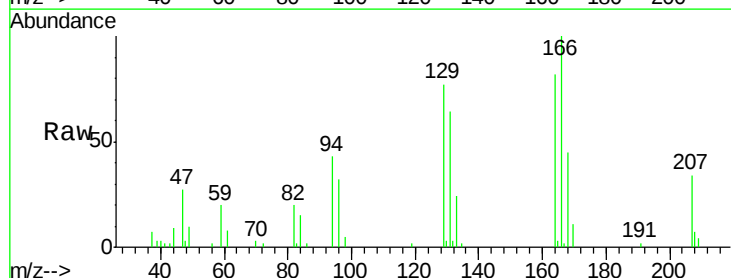


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

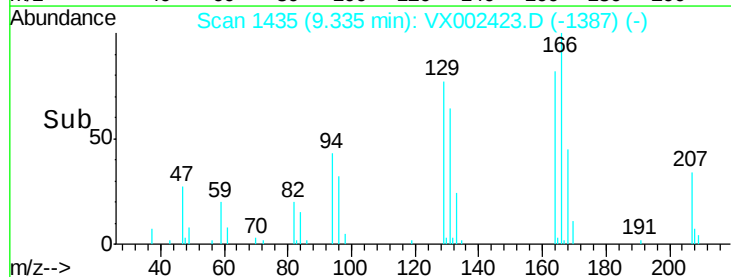
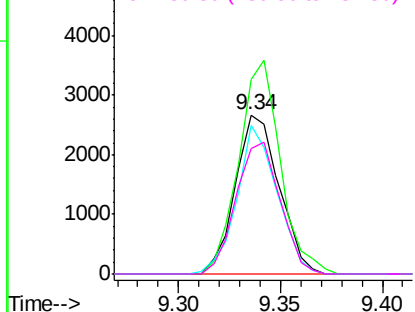


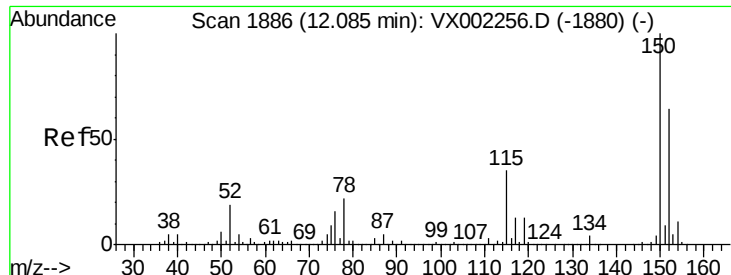
#64  
Tetrachloroethene  
Concen: 1.32 ug/l  
RT: 9.34 min Scan# 1435  
Delta R.T. -0.01 min  
Lab File: VX002423.D  
Acq: 09 Jun 2018 16:09

Tgt Ion:164 Resp: 3972  
Ion Ratio Lower Upper  
164 100  
166 122.0 102.9 154.3  
129 93.5 68.6 102.8  
131 78.5 66.8 100.2



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

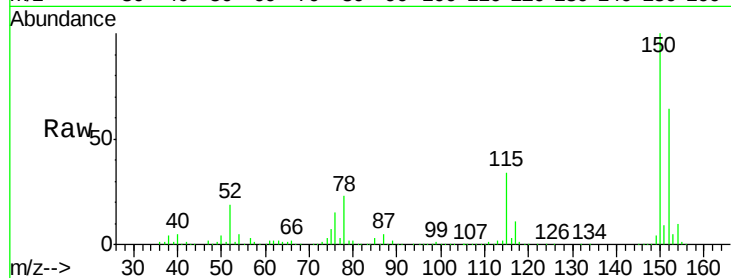




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.09 min Scan# 1886  
 Delta R.T. -0.00 min  
 Lab File: VX002423.D  
 Acq: 09 Jun 2018 16:09

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 W-51

Tot Ion:152 Resp: 158883  
 Ion Ratio Lower Upper  
 152 100  
 115 56.0 40.1 120.2  
 150 157.5 0.0 347.2



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

