

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100918\  
 Data File : VX005164.D  
 Acq On : 09 Oct 2018 17:35  
 Operator : JC/MD  
 Sample : J5291-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-4

Quant Time: Oct 10 13:50:54 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 03 04:00:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 182541   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 287276   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 285223   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 158217   | 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   | 139805   | 53.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.22% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 118291   | 48.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.18%  |          |
| 50) Toluene-d8              | 8.72  | 98   | 418271   | 51.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.36% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 149364   | 51.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.44% |          |

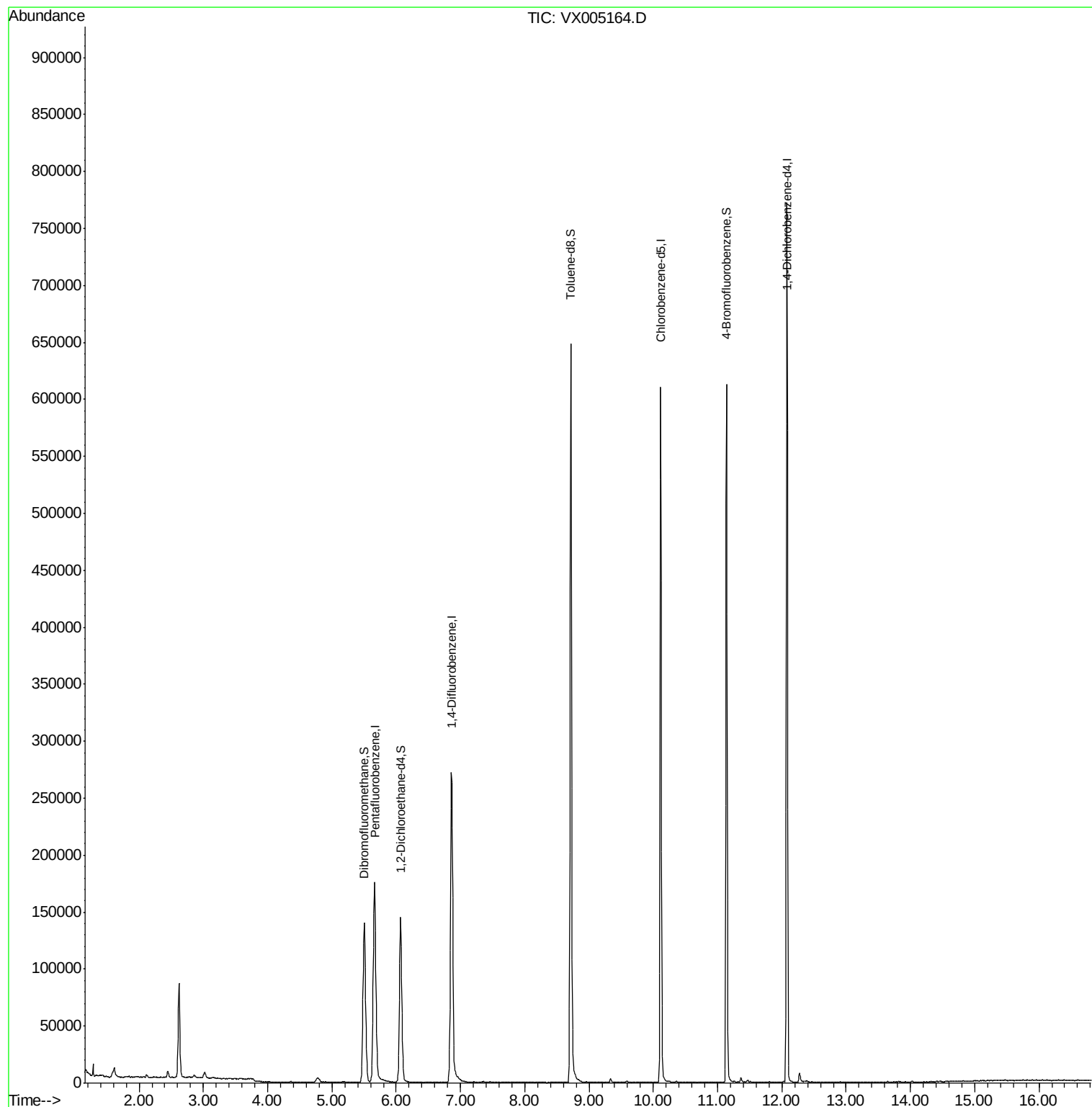
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

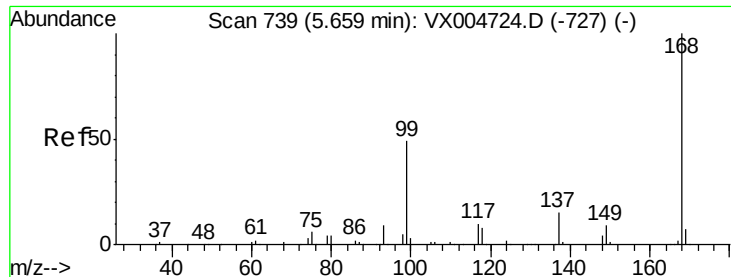
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Oct 03 04:00:03 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: VX005164.D

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Instrument :

MSVOA\_X

ClientSampleId :

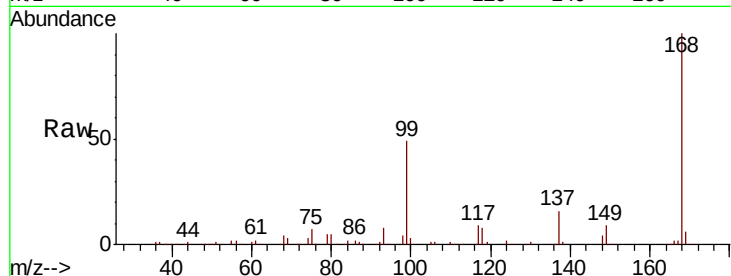
STORAGE-BLANK-WATER-REF-4

Tot Ion:168 Resp: 182541

Ion Ratio Lower Upper

168 100

99 48.7 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

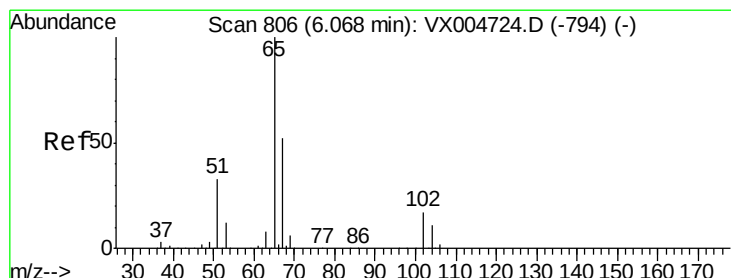
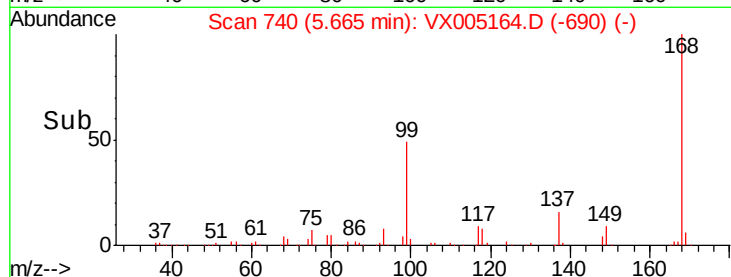
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 53.614 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX005164.D

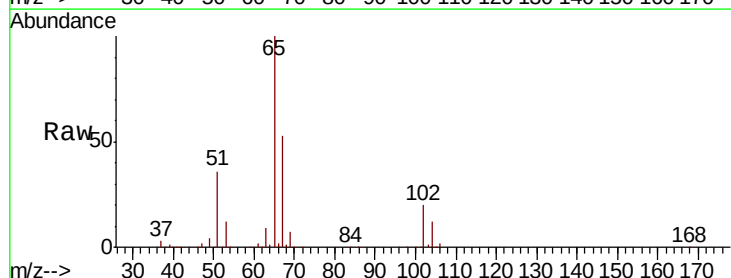
Acq: 09 Oct 2018 17:35

Tgt Ion: 65 Resp: 139805

Ion Ratio Lower Upper

65 100

67 53.0 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

60000

50000

40000

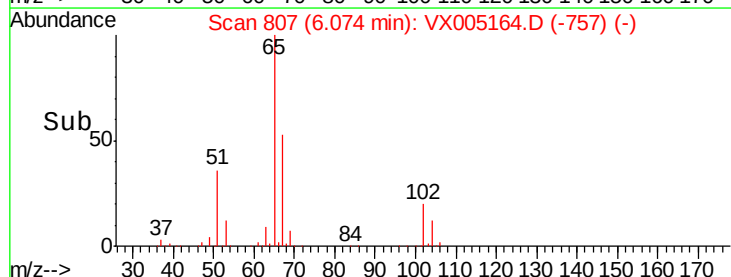
30000

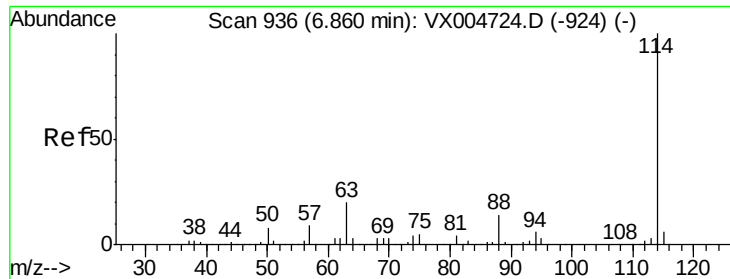
20000

10000

0

Time--> 5.90 6.00 6.10 6.20

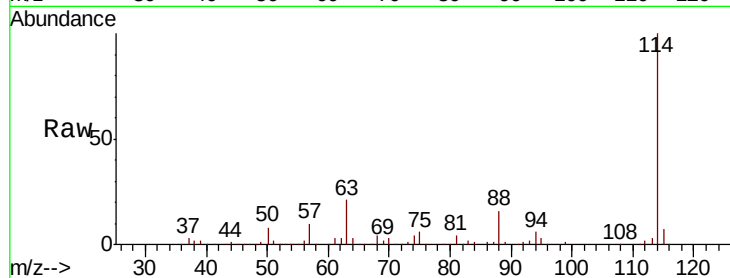




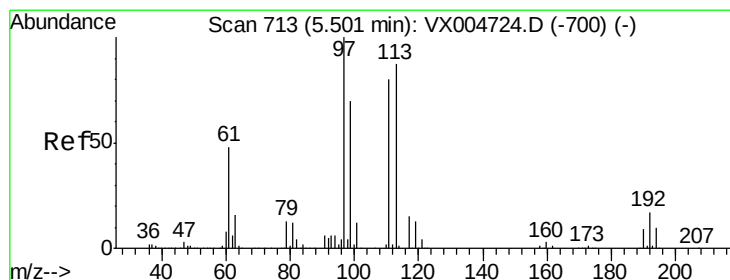
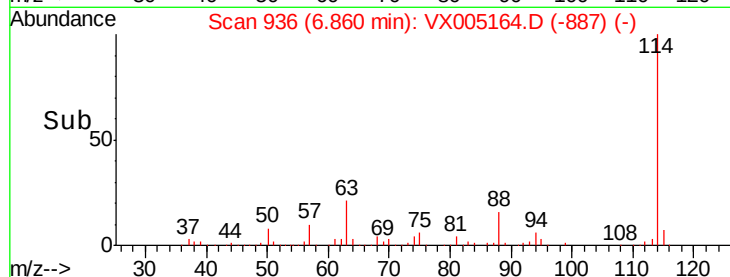
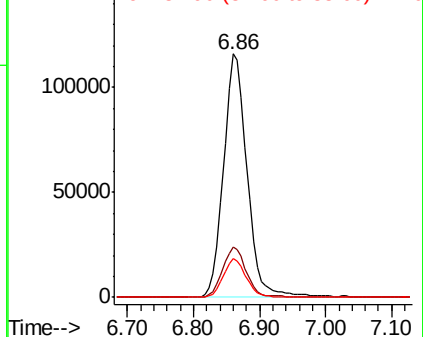
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX005164.D  
 Acq: 09 Oct 2018 17:35

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-4

Tot Ion:114 Resp: 287276  
 Ion Ratio Lower Upper  
 114 100  
 63 20.9 0.0 39.8  
 88 15.7 0.0 27.0

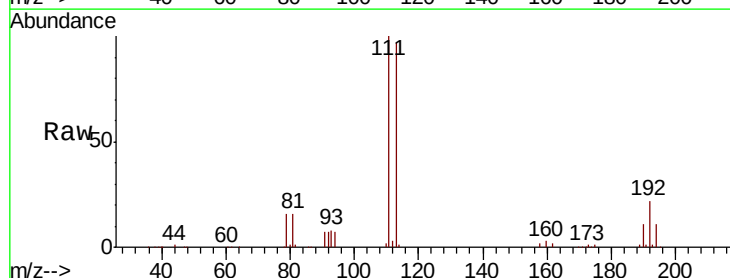


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

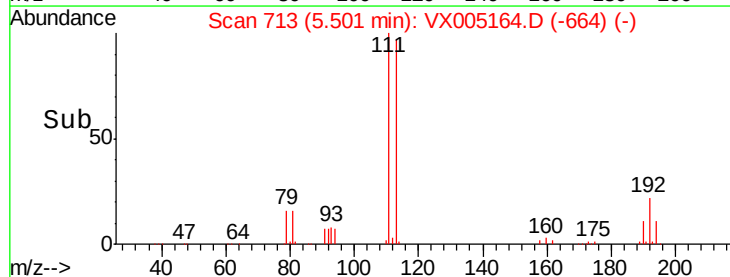
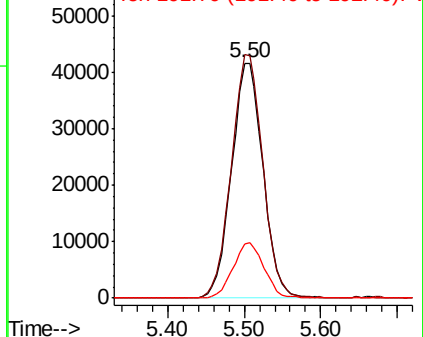


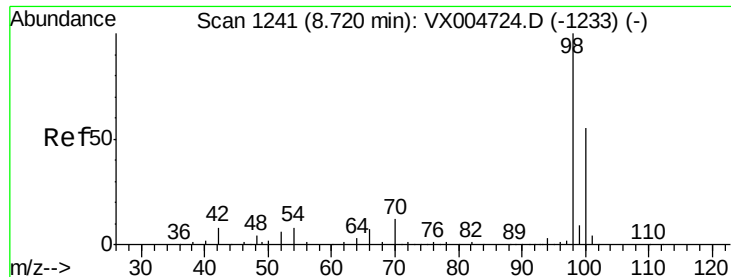
#35  
 Dibromofluoromethane  
 Concen: 48.585 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX005164.D  
 Acq: 09 Oct 2018 17:35

Tgt Ion:113 Resp: 118291  
 Ion Ratio Lower Upper  
 113 100  
 111 103.5 77.0 115.4  
 192 23.2 17.0 25.6



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

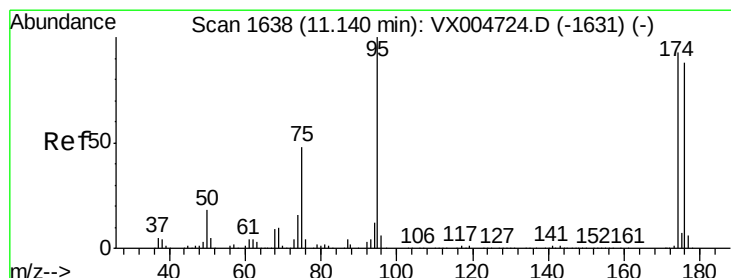
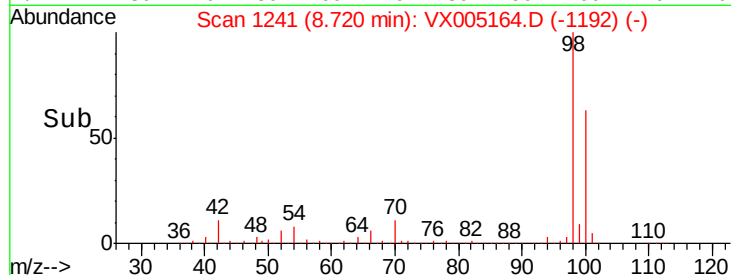
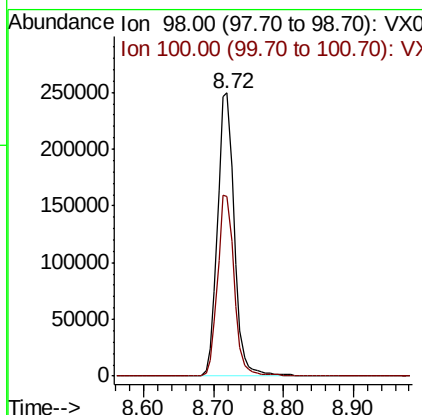
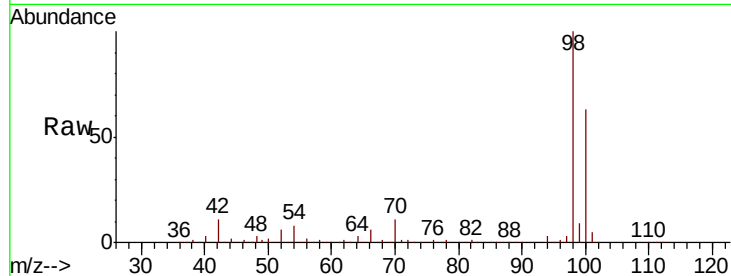




#50  
Toluene-d8  
Concen: 51.676 ug/l  
RT: 8.72 min Scan# 1241  
Delta R.T. -0.00 min  
Lab File: VX005164.D  
Acq: 09 Oct 2018 17:35

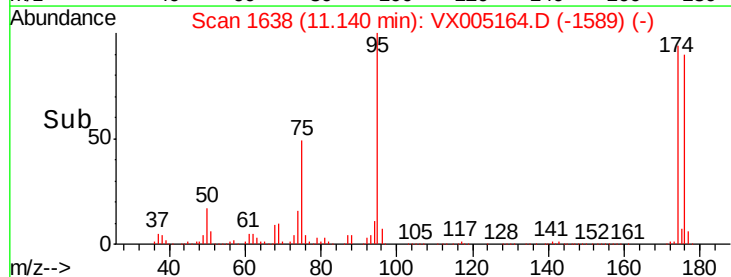
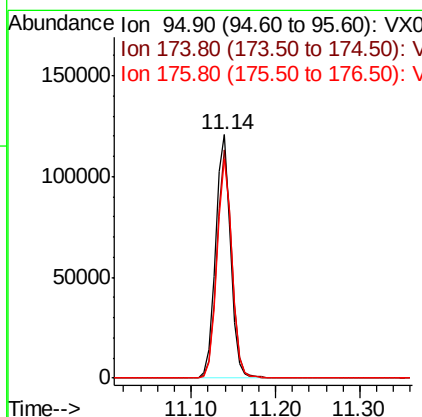
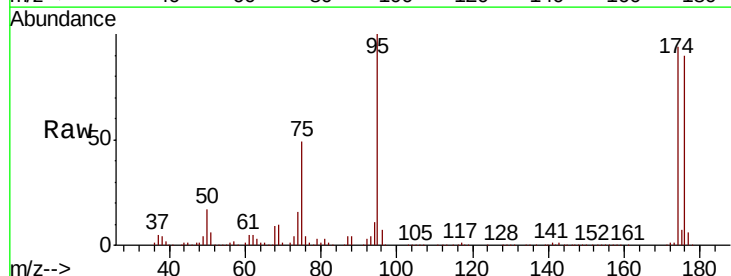
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-4

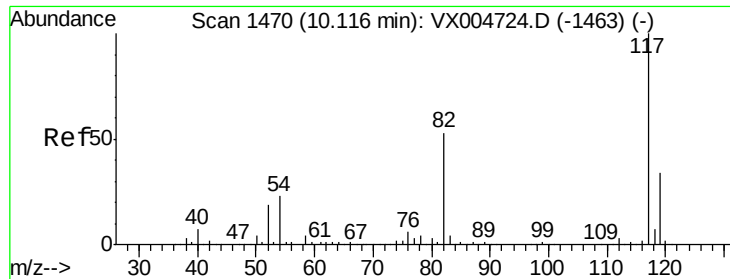
Tot Ion: 98 Resp: 418271  
Ion Ratio Lower Upper  
98 100  
100 63.5 51.9 77.9



#62  
4-Bromofluorobenzene  
Concen: 51.223 ug/l  
RT: 11.14 min Scan# 1638  
Delta R.T. -0.00 min  
Lab File: VX005164.D  
Acq: 09 Oct 2018 17:35

Tgt Ion: 95 Resp: 149364  
Ion Ratio Lower Upper  
95 100  
174 93.6 0.0 185.0  
176 89.7 0.0 180.2

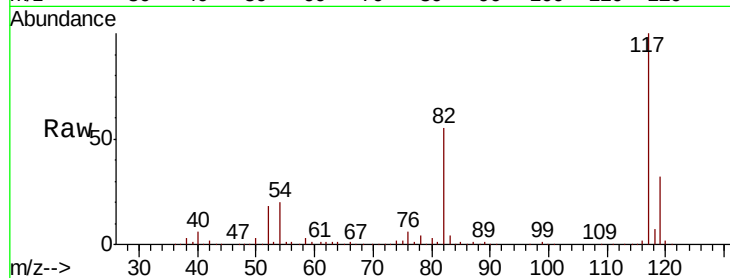




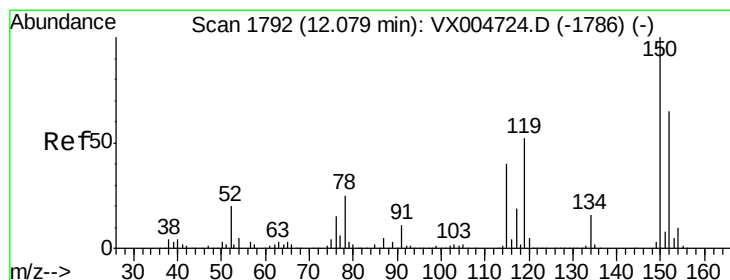
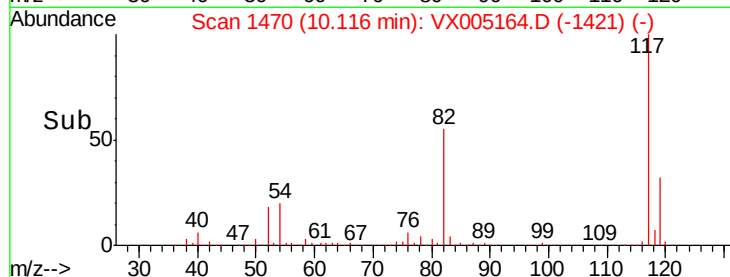
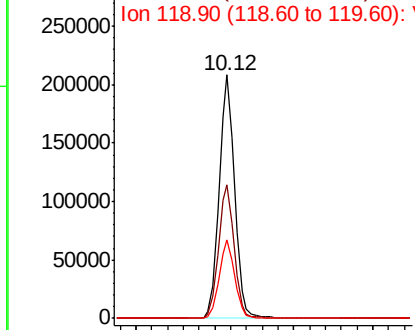
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VX005164.D  
Acq: 09 Oct 2018 17:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-4

Tot Ion:117 Resp: 285223  
Ion Ratio Lower Upper  
117 100  
82 54.9 42.2 63.4  
119 32.3 27.4 41.0

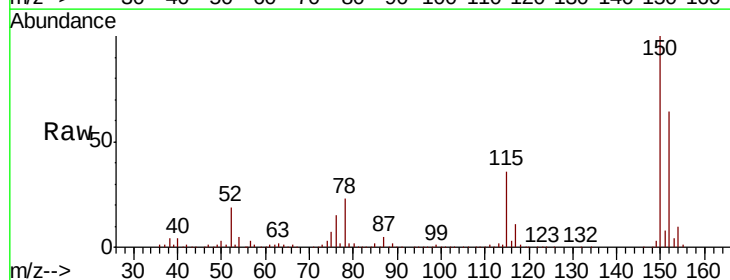


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX005164.D  
Acq: 09 Oct 2018 17:35

Tgt Ion:152 Resp: 158217  
Ion Ratio Lower Upper  
152 100  
115 55.8 40.2 120.6  
150 157.2 0.0 351.0



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

