

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091118\  
 Data File : VN051111.D  
 Acq On : 11 Sep 2018 8:28  
 Operator : MD\SY  
 Sample : VN0911WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0911WBL01

Quant Time: Sep 12 01:19:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 02:27:09 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 681220   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1032315  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 887565   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 303436   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 390063   | 51.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 102.90% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 391190   | 50.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.86% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1422724  | 48.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 96.66%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 396925   | 40.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 81.54%  |          |

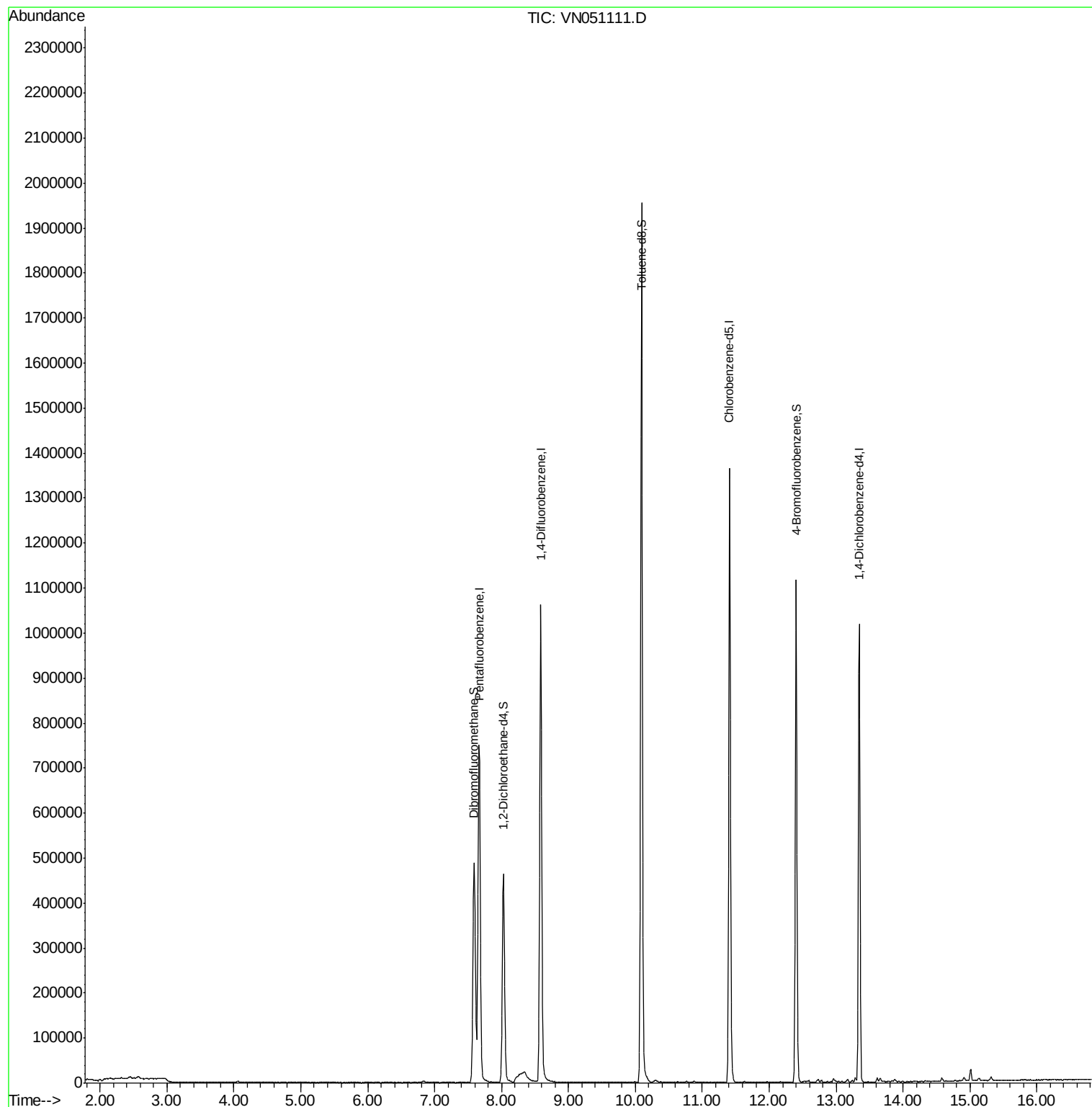
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

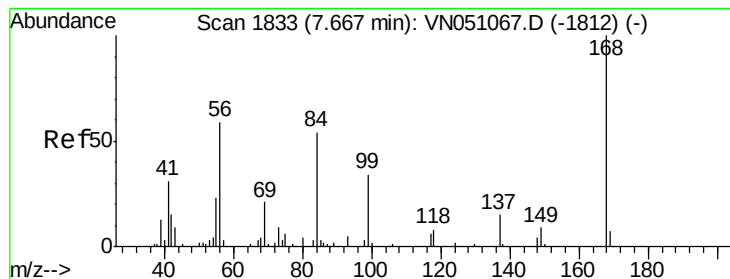
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091118\  
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Sample : VN0911WBL01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0911WBL01

Quant Time: Sep 12 01:19:52 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 11 02:27:09 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051111.D

Acq: 11 Sep 2018 8:28

Instrument :

MSVOA\_N

ClientSampleId :

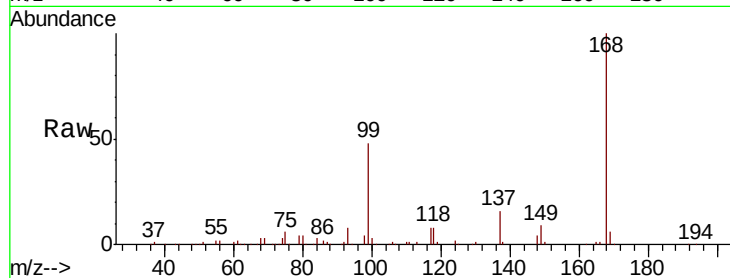
VN0911WBL01

Tot Ion:168 Resp: 681220

Ion Ratio Lower Upper

168 100

99 48.4 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): VN051111.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051111.D (-1740) (-)

7.67

300000

250000

200000

150000

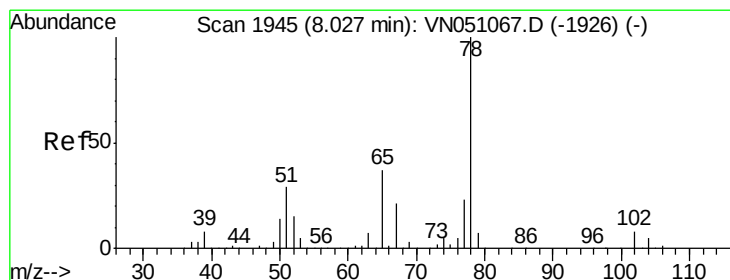
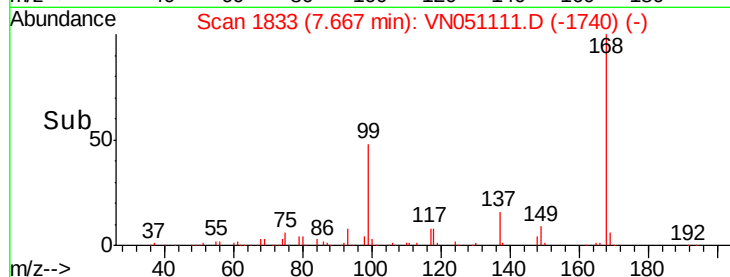
100000

50000

0

7.60 7.70 7.80

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.45 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051111.D

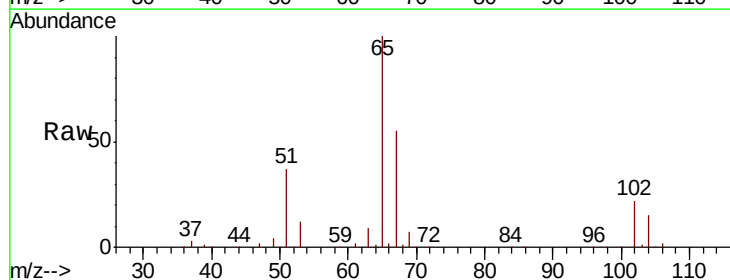
Acq: 11 Sep 2018 8:28

Tgt Ion: 65 Resp: 390063

Ion Ratio Lower Upper

65 100

67 56.0 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN051111.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN051111.D (-1852) (-)

8.03

200000

150000

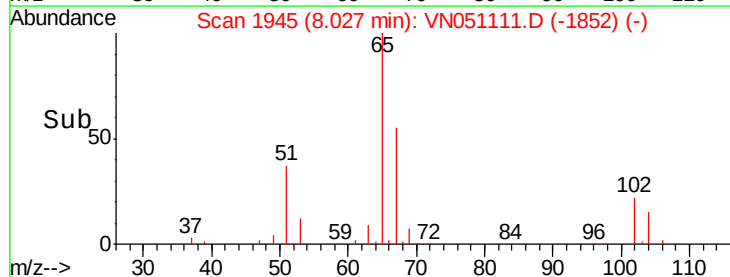
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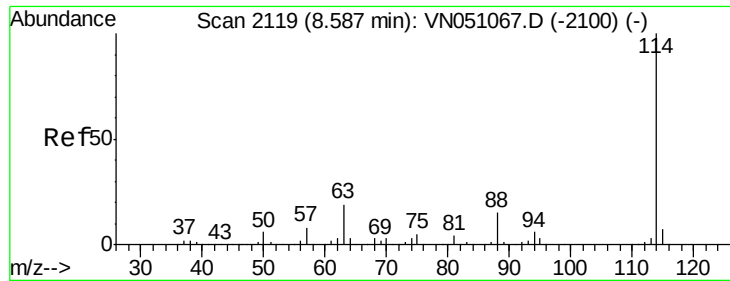
50000

0

7.90 8.00 8.10

Time-->

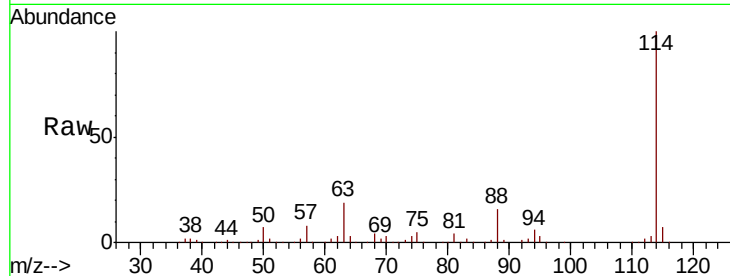




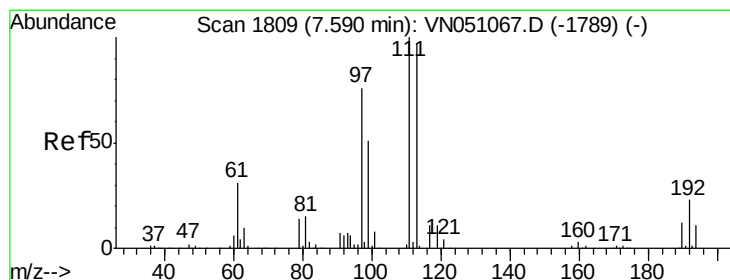
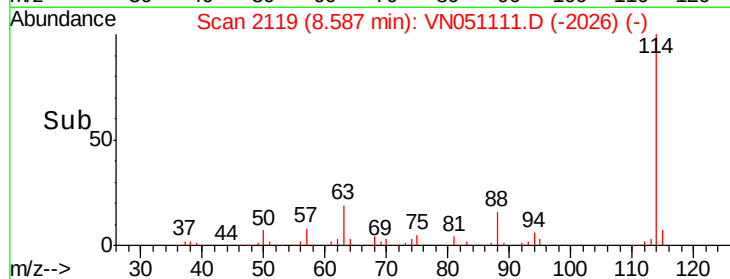
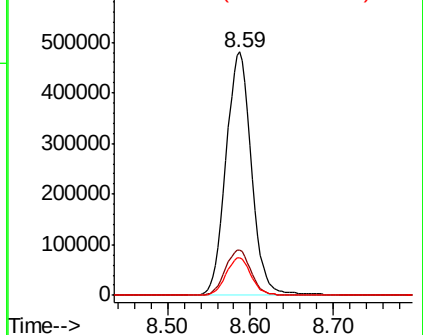
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN051111.D  
 Acq: 11 Sep 2018 8:28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0911WBL01

Tot Ion:114 Resp: 1032315  
 Ion Ratio Lower Upper  
 114 100  
 63 18.8 0.0 37.8  
 88 15.5 0.0 30.8

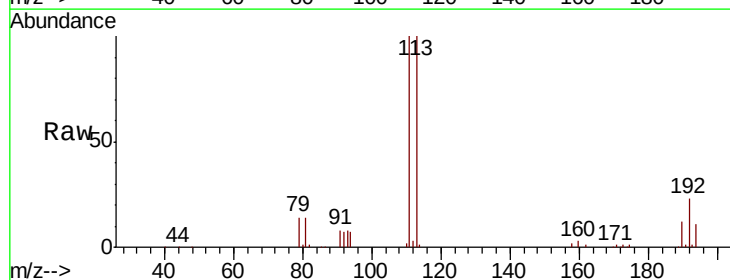


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

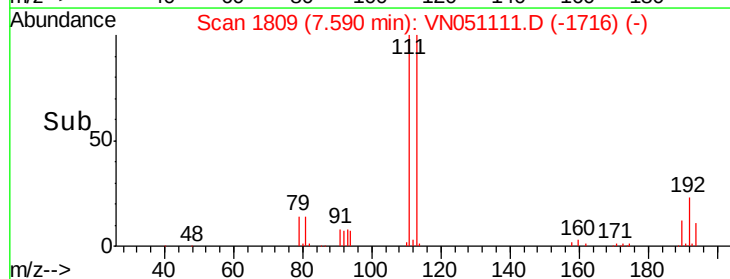
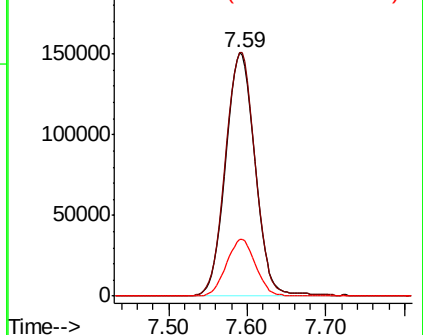


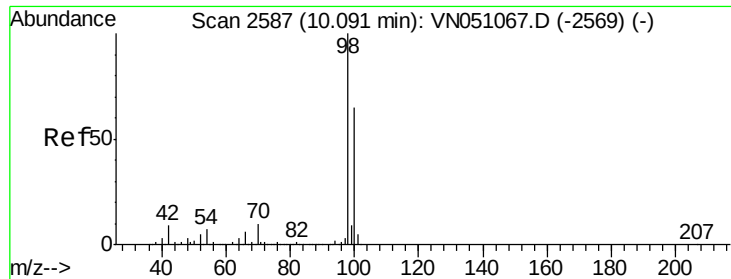
#35  
 Dibromofluoromethane  
 Concen: 50.43 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. -0.00 min  
 Lab File: VN051111.D  
 Acq: 11 Sep 2018 8:28

Tgt Ion:113 Resp: 391190  
 Ion Ratio Lower Upper  
 113 100  
 111 101.2 83.0 124.6  
 192 22.9 18.7 28.1



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





#50

Toluene-d8

Concen: 48.33 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051111.D

Acq: 11 Sep 2018 8:28

Instrument :

MSVOA\_N

ClientSampleId :

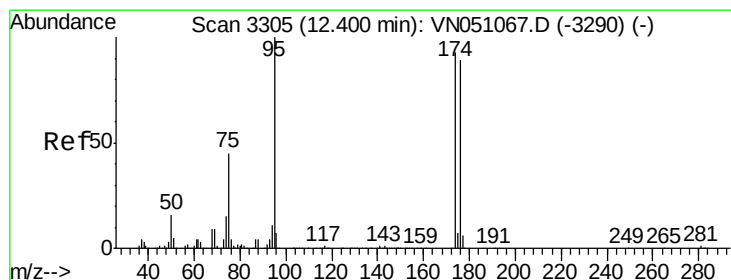
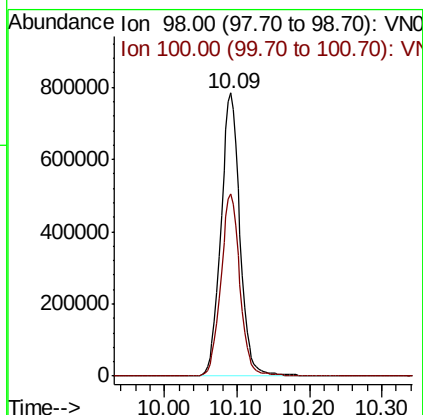
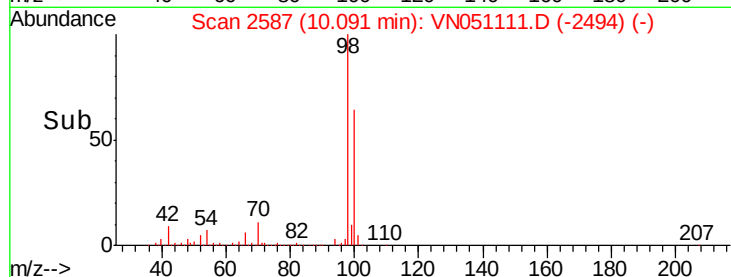
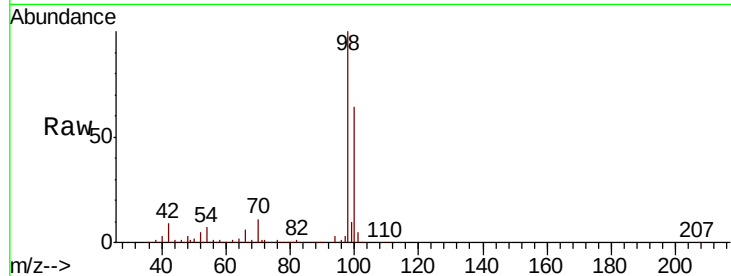
VN0911WBL01

Tot Ion: 98 Resp: 1422724

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 40.77 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051111.D

Acq: 11 Sep 2018 8:28

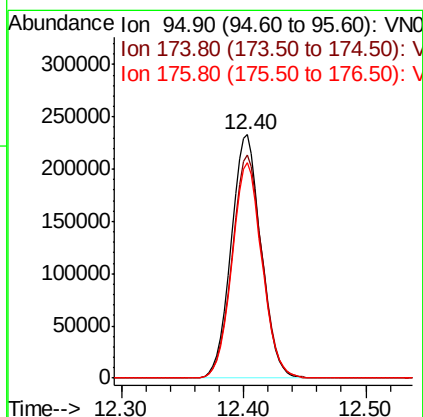
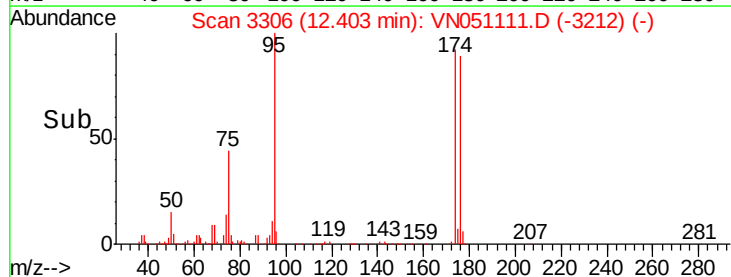
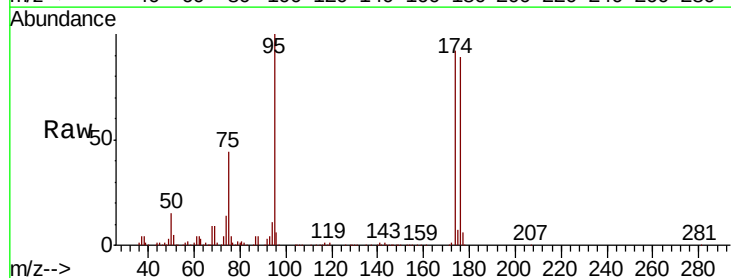
Tgt Ion: 95 Resp: 396925

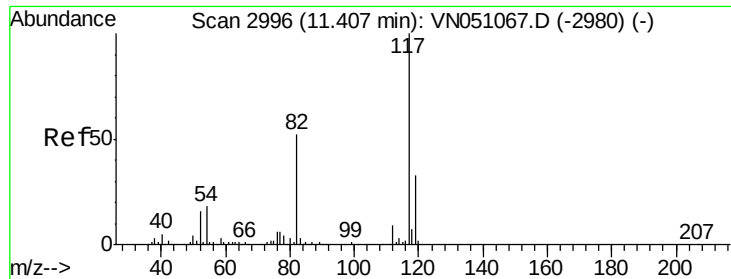
Ion Ratio Lower Upper

95 100

174 92.3 0.0 184.8

176 88.6 0.0 178.6

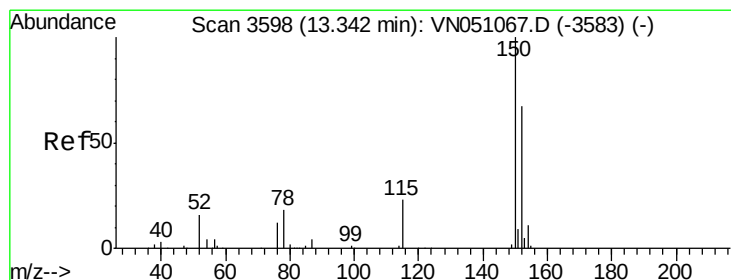
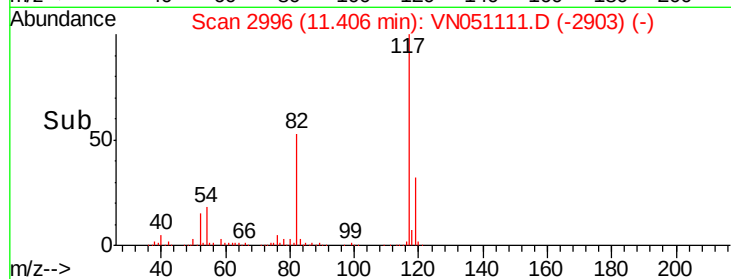
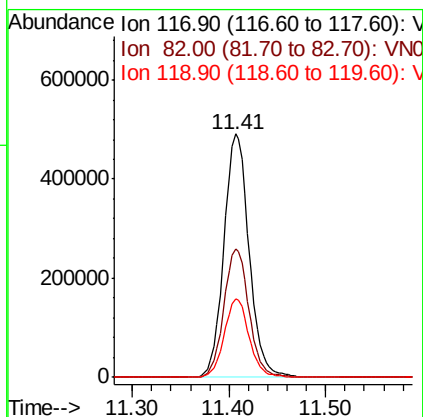
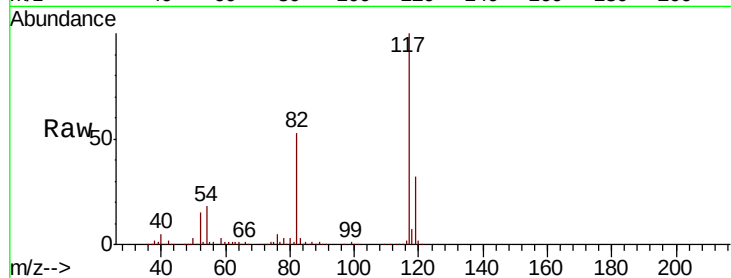




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN051111.D  
Acq: 11 Sep 2018 8:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0911WBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.5  | 41.8  | 62.6  |
| 119     | 32.2  | 26.2  | 39.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN051111.D  
Acq: 11 Sep 2018 8:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.2  | 28.2  | 84.7  |
| 150     | 155.7 | 0.0   | 349.0 |

