

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091918\  
 Data File : VN051322.D  
 Acq On : 19 Sep 2018 16:28  
 Operator : MD\SY  
 Sample : J4979-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 GROUND-WATER

Quant Time: Sep 20 02:10:40 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091718W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 18 06:04:06 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 547059   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 819108   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 669970   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 205764   | 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   | 304257   | 51.18 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 102.36% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 316270   | 49.69 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.38%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1097795  | 46.66 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 93.32%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 275681   | 36.84 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 73.68%  |          |

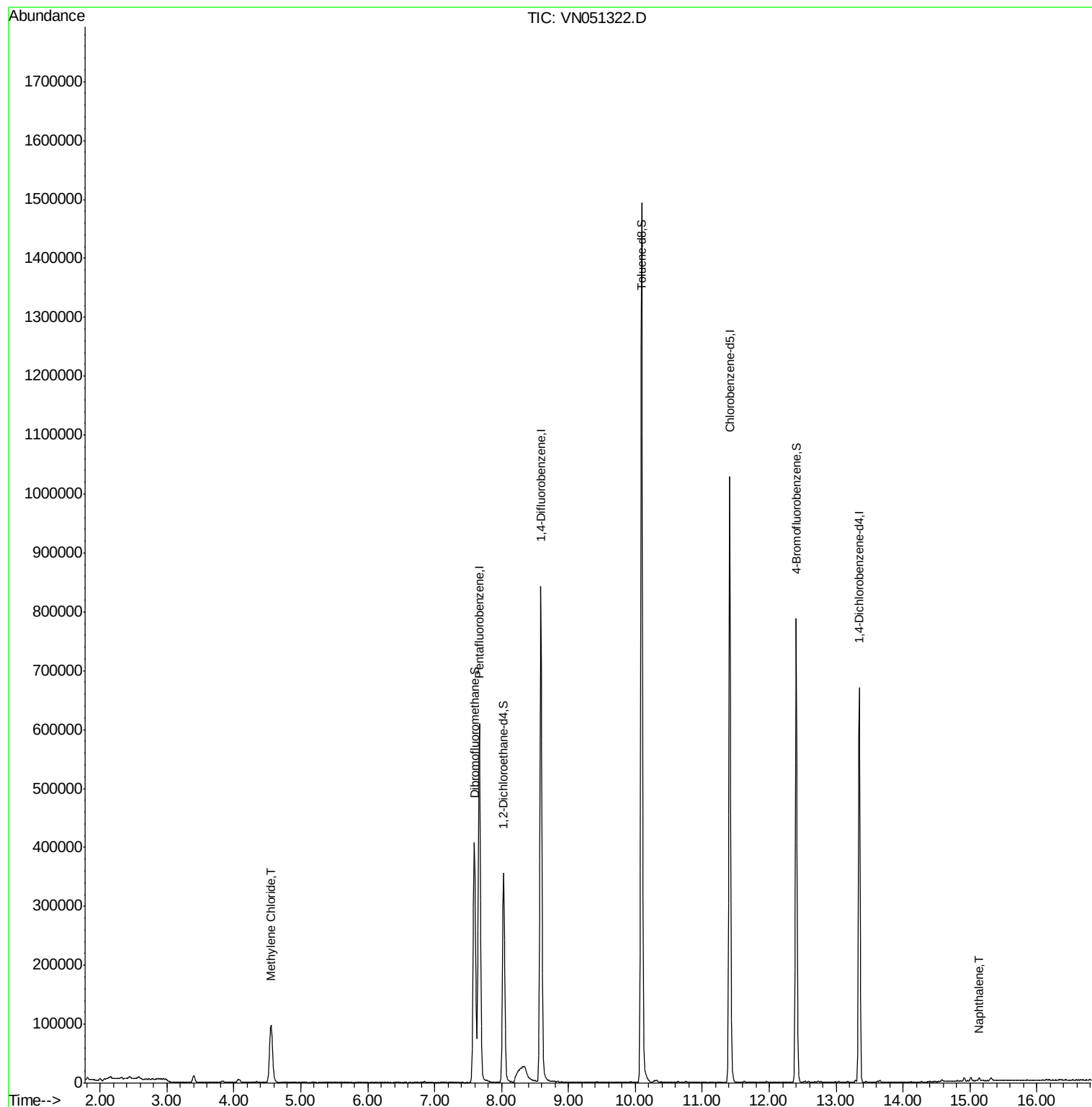
| Target Compounds       | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|------------------------|-------|------|----------|-------|-------|--------|
| 20) Methylene Chloride | 4.56  | 84   | 81461    | 12.52 | ug/l  | 96     |
| 95) Naphthalene        | 15.14 | 128  | 4837     | 6.59  | ug/l  | 95     |

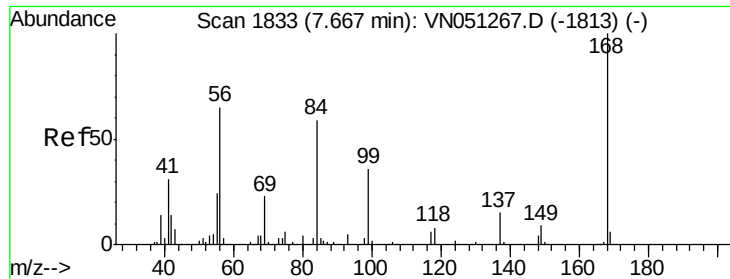
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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GROUND-WATER

Quant Time: Sep 20 02:10:40 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091718W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 18 06:04:06 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051322.D

Acq: 19 Sep 2018 16:28

Instrument :

MSVOA\_N

ClientSampleId :

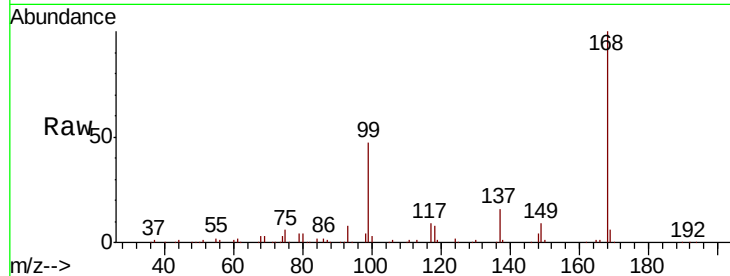
GROUND-WATER

Tot Ion:168 Resp: 547059

Ion Ratio Lower Upper

168 100

99 46.9 38.2 57.4



Abundance Ion 167.90 (167.60 to 168.60): VN051267.D

Ion 98.90 (98.60 to 99.60): VN051267.D

7.67

250000

200000

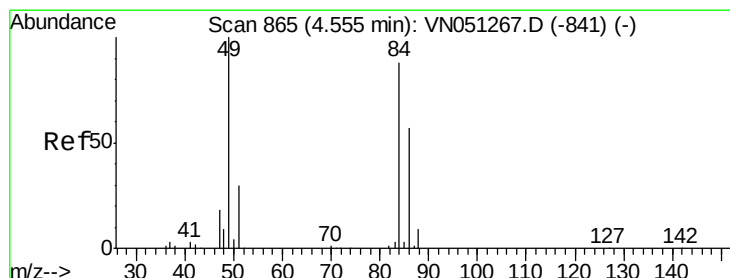
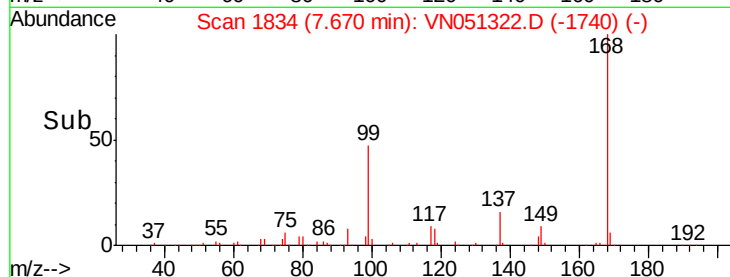
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 12.52 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.00 min

Lab File: VN051322.D

Acq: 19 Sep 2018 16:28

Tgt Ion: 84 Resp: 81461

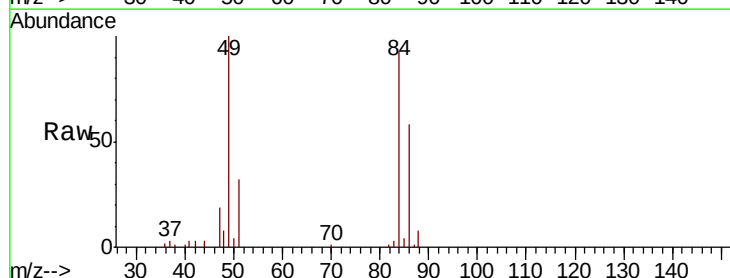
Ion Ratio Lower Upper

84 100

49 107.6 91.2 136.8

51 34.5 27.7 41.5

86 62.8 52.0 78.0



Abundance Ion 83.90 (83.60 to 84.60): VN051267.D

Ion 48.90 (48.60 to 49.60): VN051267.D

Ion 50.90 (50.60 to 51.60): VN051267.D

Ion 85.90 (85.60 to 86.60): VN051267.D

40000

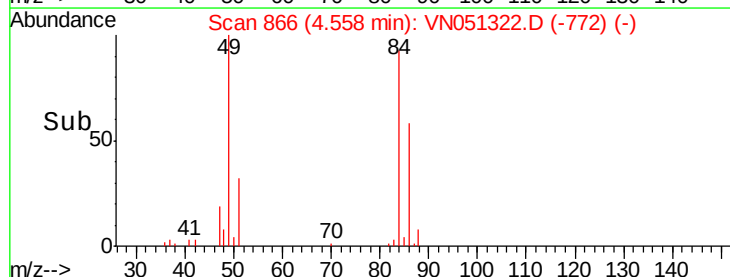
30000

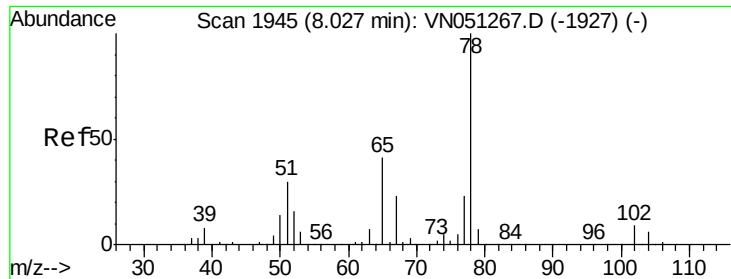
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0

Time-->

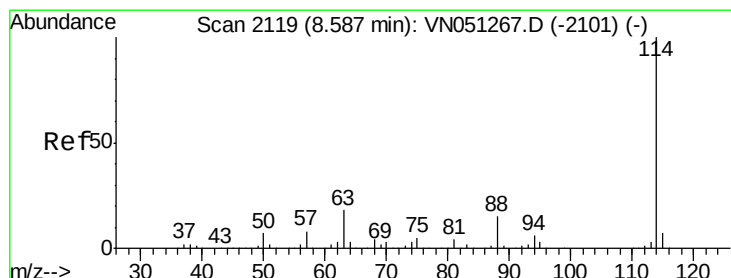
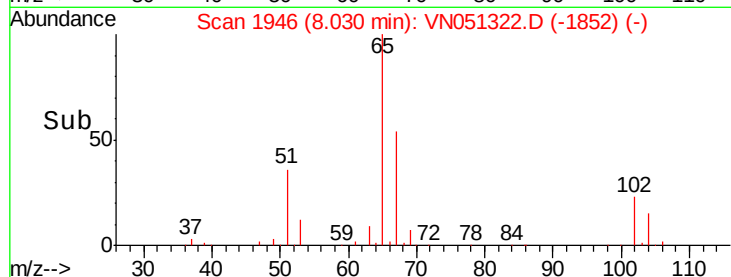
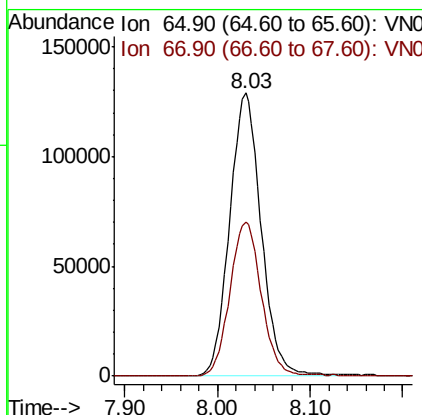
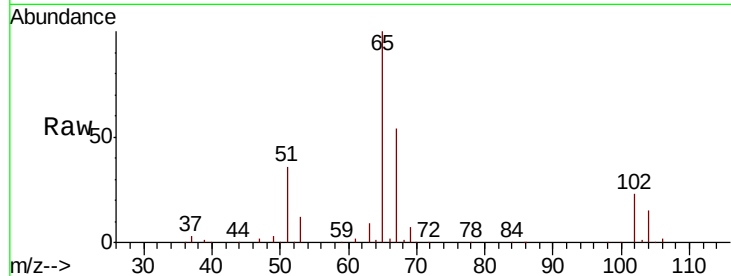




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.18 ug/l  
 RT: 8.03 min Scan# 1946  
 Delta R.T. 0.00 min  
 Lab File: VN051322.D  
 Acq: 19 Sep 2018 16:28

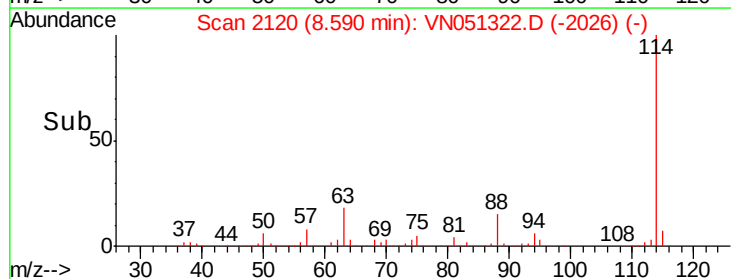
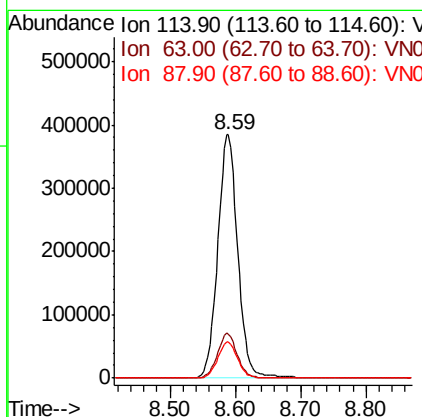
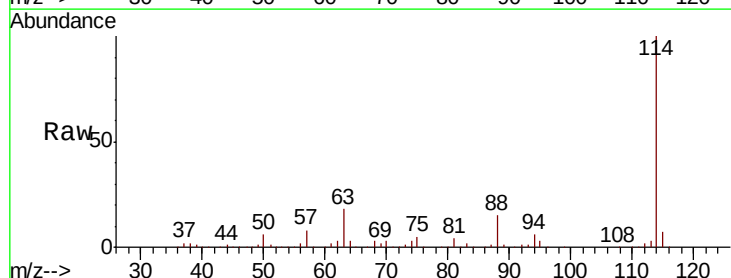
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 GROUND-WATER

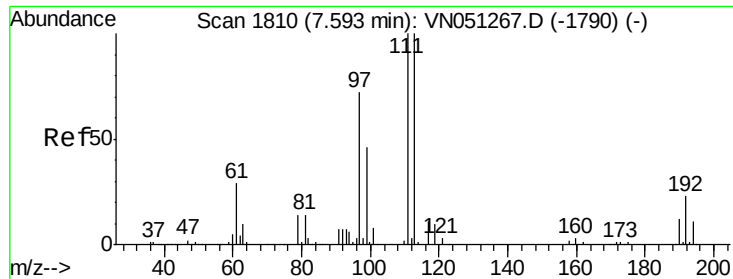
Tot Ion: 65 Resp: 304257  
 Ion Ratio Lower Upper  
 65 100  
 67 54.1 0.0 111.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2120  
 Delta R.T. 0.00 min  
 Lab File: VN051322.D  
 Acq: 19 Sep 2018 16:28

Tgt Ion: 114 Resp: 819108  
 Ion Ratio Lower Upper  
 114 100  
 63 18.1 0.0 36.8  
 88 15.1 0.0 30.8

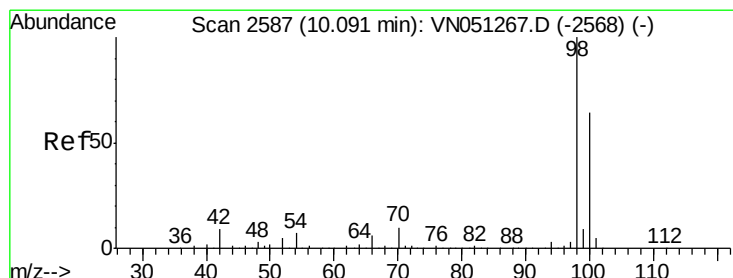
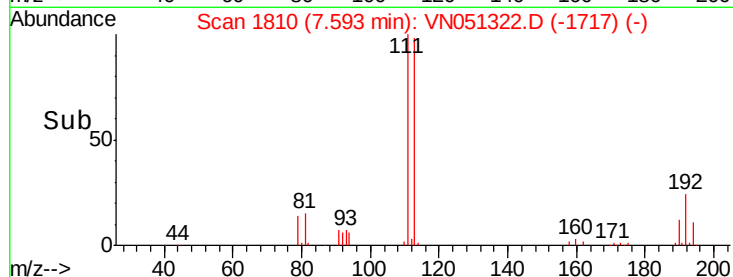
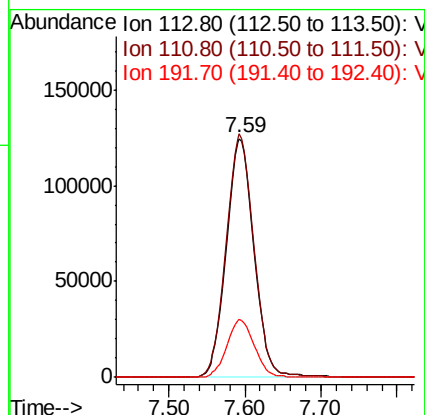
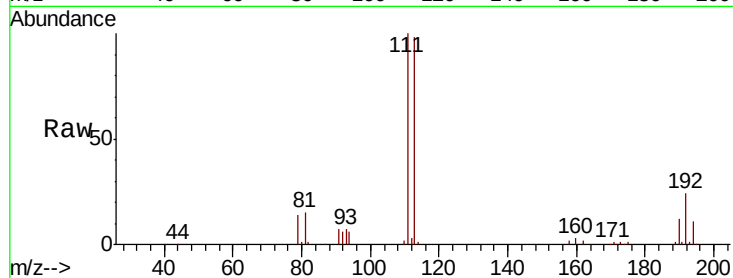




#35  
 Dibromofluoromethane  
 Concen: 49.69 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN051322.D  
 Acq: 19 Sep 2018 16:28

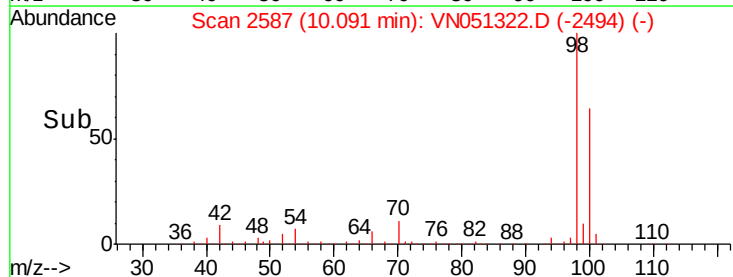
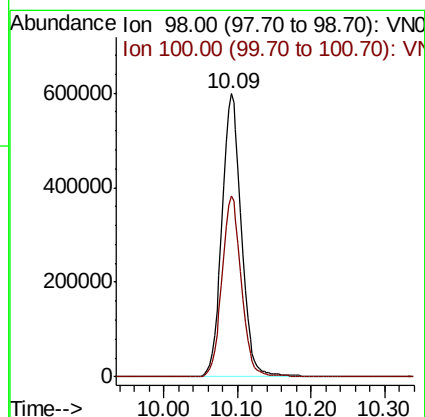
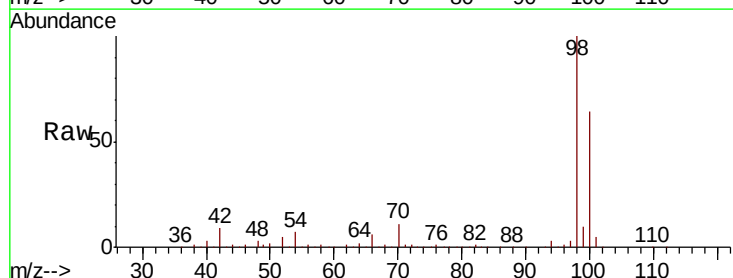
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 GROUND-WATER

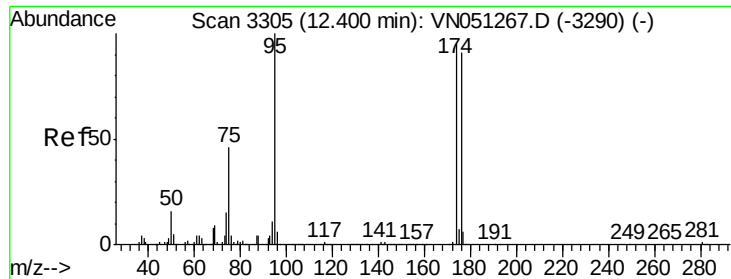
Tot Ion:113 Resp: 316270  
 Ion Ratio Lower Upper  
 113 100  
 111 101.8 82.2 123.4  
 192 23.9 19.0 28.6



#50  
 Toluene-d8  
 Concen: 46.66 ug/l  
 RT: 10.09 min Scan# 2587  
 Delta R.T. 0.00 min  
 Lab File: VN051322.D  
 Acq: 19 Sep 2018 16:28

Tgt Ion: 98 Resp: 1097795  
 Ion Ratio Lower Upper  
 98 100  
 100 63.8 51.6 77.4

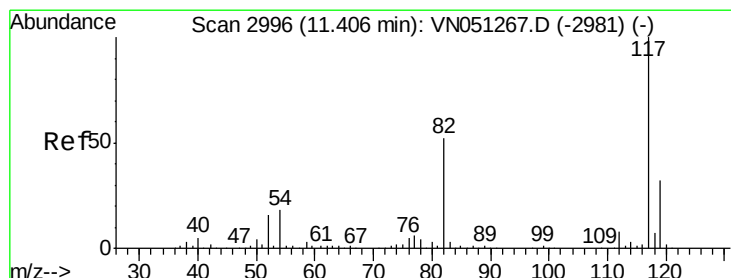
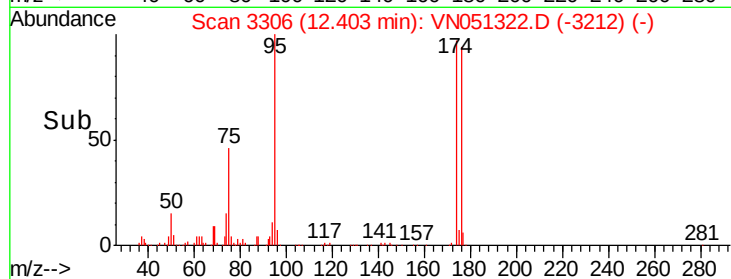
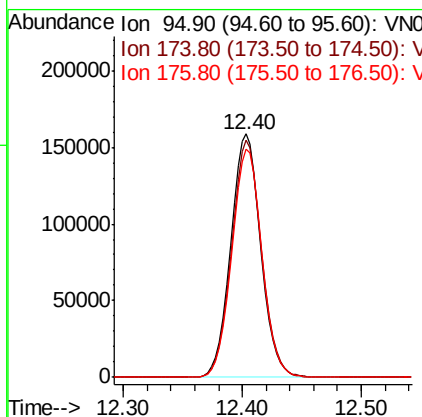
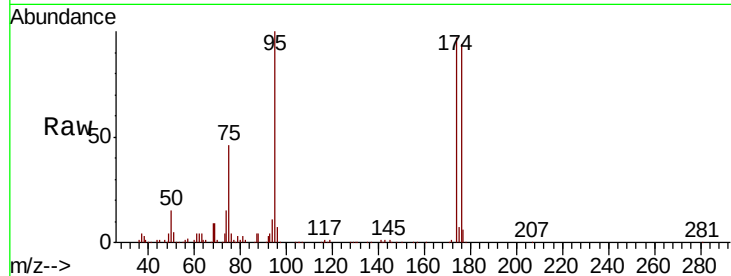




#62  
4-Bromofluorobenzene  
Concen: 36.84 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN051322.D  
Acq: 19 Sep 2018 16:28

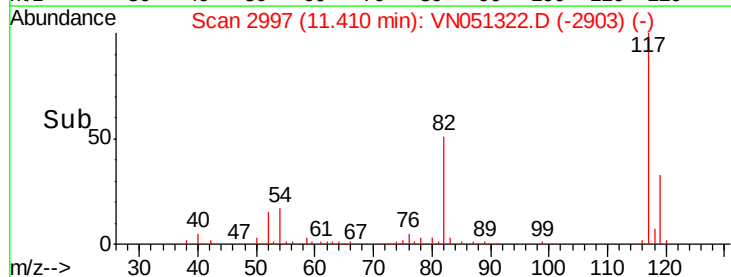
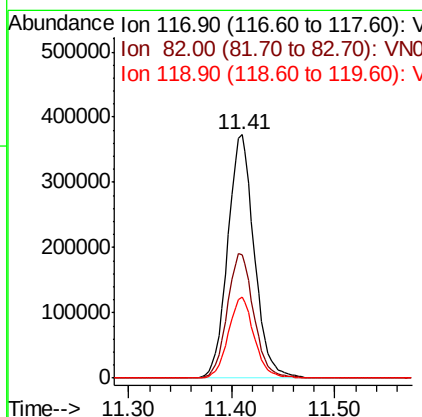
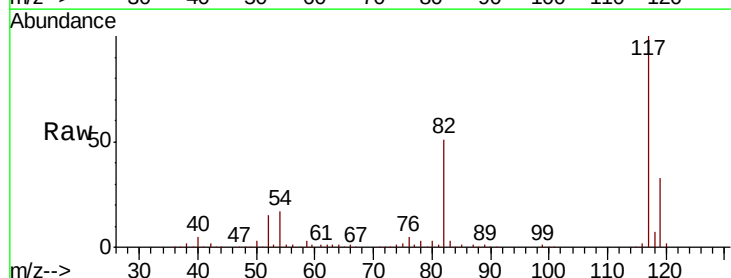
Instrument :  
MSVOA\_N  
ClientSampleId :  
GROUND-WATER

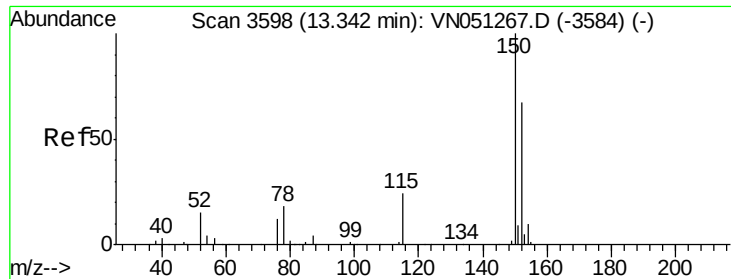
Tot Ion: 95 Resp: 275681  
Ion Ratio Lower Upper  
95 100  
174 97.4 0.0 189.6  
176 94.3 0.0 182.6



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN051322.D  
Acq: 19 Sep 2018 16:28

Tgt Ion: 117 Resp: 669970  
Ion Ratio Lower Upper  
117 100  
82 50.9 41.8 62.8  
119 33.1 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051322.D

Acq: 19 Sep 2018 16:28

Instrument :

MSVOA\_N

ClientSampleId :

GROUND-WATER

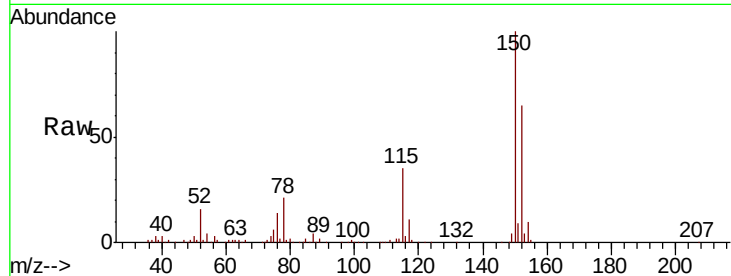
Tot Ion:152 Resp: 205764

Ion Ratio Lower Upper

152 100

115 52.7 27.1 81.2

150 154.9 0.0 349.0

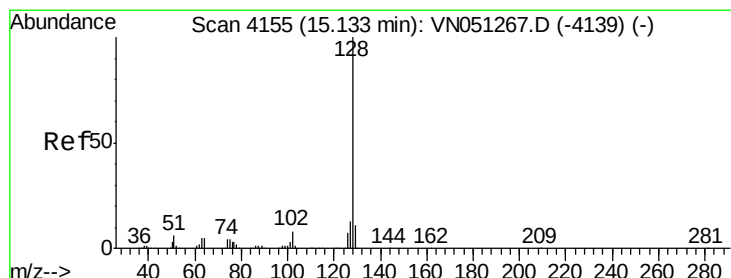
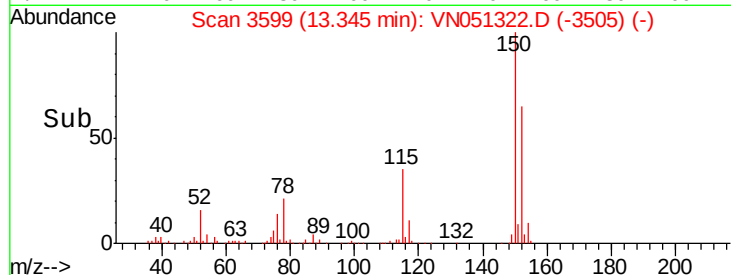
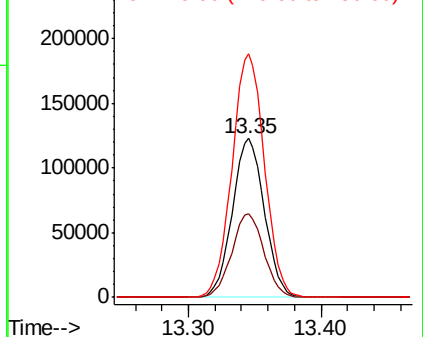


Abundance

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



#95

Naphthalene

Concen: 6.59 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051322.D

Acq: 19 Sep 2018 16:28

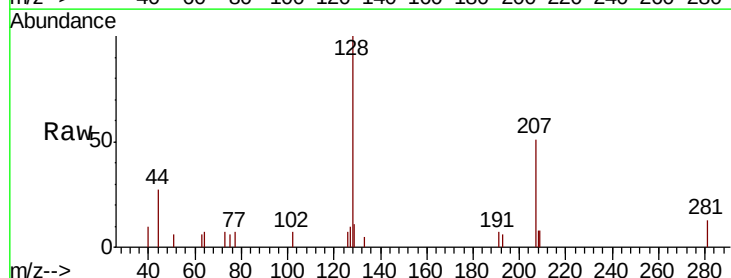
Tgt Ion:128 Resp: 4837

Ion Ratio Lower Upper

128 100

127 11.5 10.7 16.1

129 9.4 8.9 13.3



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

