

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061119\  
 Data File : VN056218.D  
 Acq On : 11 Jun 2019 13:06  
 Operator : JC/SP  
 Sample : K3284-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BPS1-TT-MW310S-20190609

Quant Time: Jun 12 07:03:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 04 11:02:09 2019  
 Response via : Initial Calibration

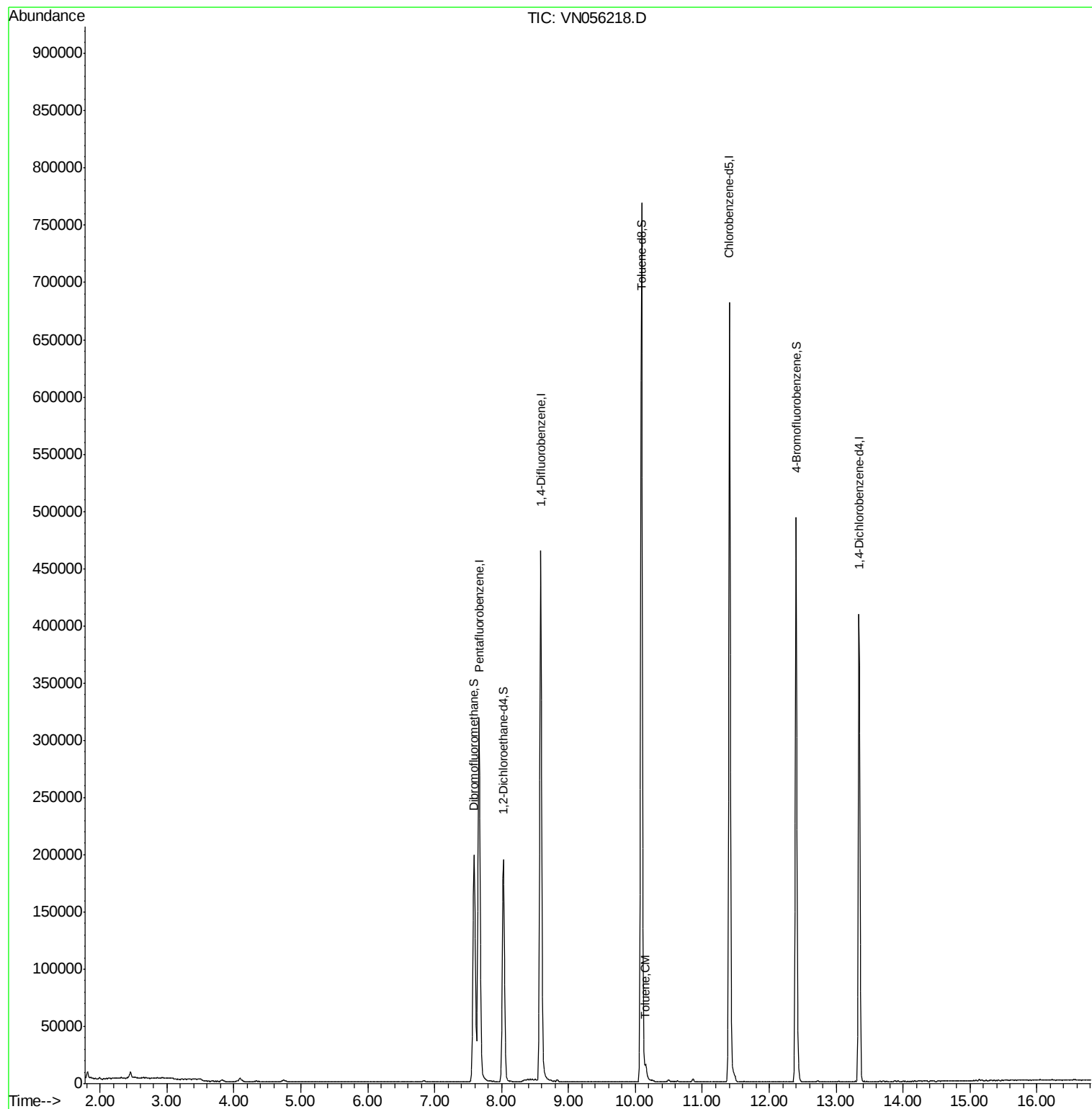
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 7.66  | 168  | 307430   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 462155   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 445292   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.34 | 152  | 130130   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 161240   | 52.82 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 105.64% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 151367   | 53.38 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 106.76% |          |
| 50) Toluene-d8              | 10.09 | 98   | 589980   | 54.07 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 108.14% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 176195   | 47.49 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 94.98%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 52) Toluene                 | 10.16 | 92   | 4130     | 0.550 | ug/l    | 99       |

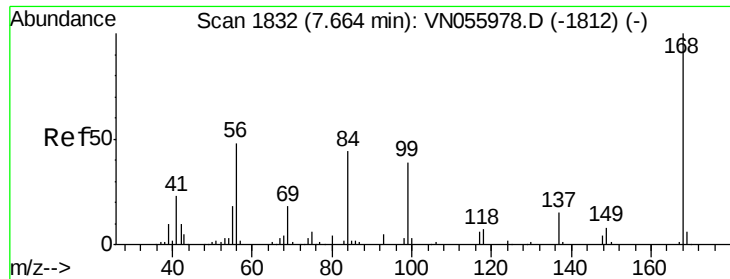
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061119\  
Data File : VN056218.D  
Acq On : 11 Jun 2019 13:06  
Operator : JC/SP  
Sample : K3284-03  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BPS1-TT-MW310S-20190609

Quant Time: Jun 12 07:03:59 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 04 11:02:09 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056218.D

Acq: 11 Jun 2019 13:06

Instrument :

MSVOA\_N

ClientSampleId :

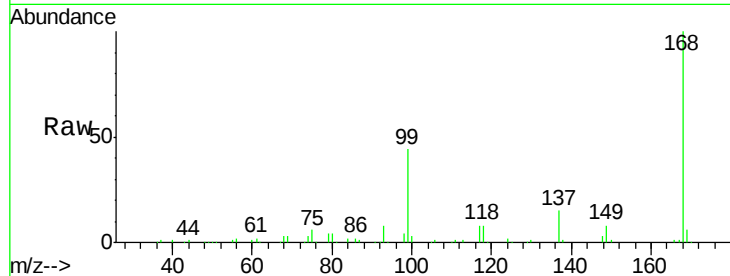
BPS1-TT-MW310S-20190609

Tot Ion:168 Resp: 307430

Ion Ratio Lower Upper

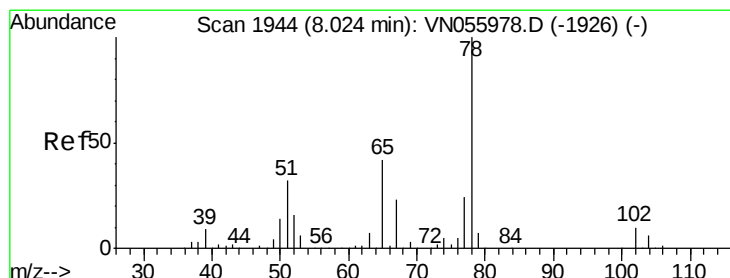
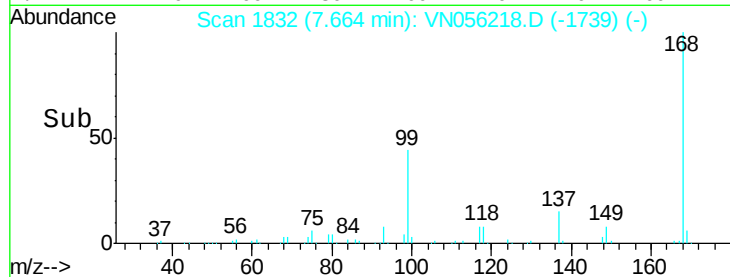
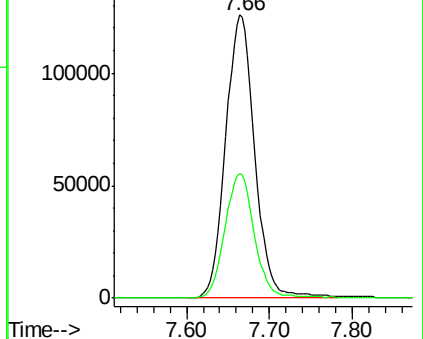
168 100

99 44.0 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#33

1,2-Dichloroethane-d4

Concen: 52.822 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056218.D

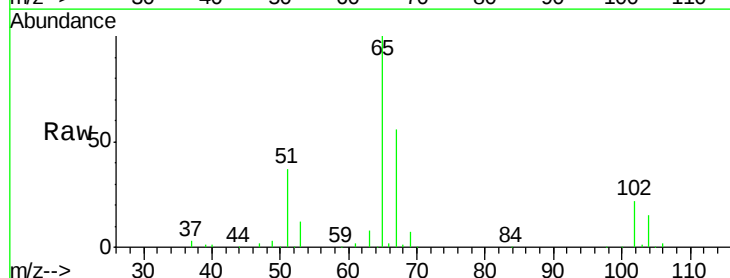
Acq: 11 Jun 2019 13:06

Tgt Ion: 65 Resp: 161240

Ion Ratio Lower Upper

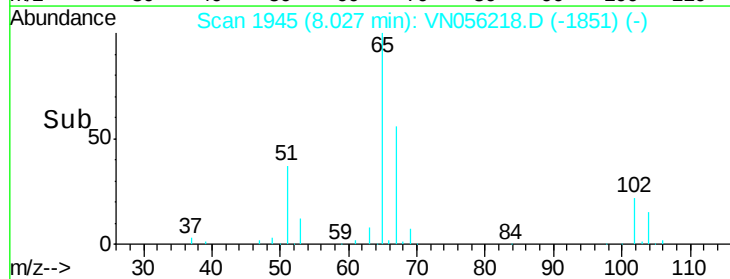
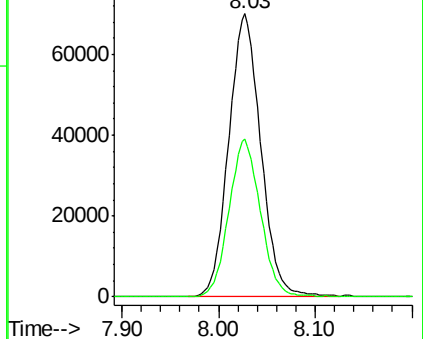
65 100

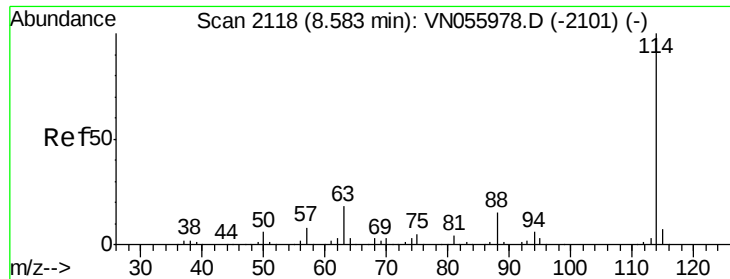
67 54.6 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

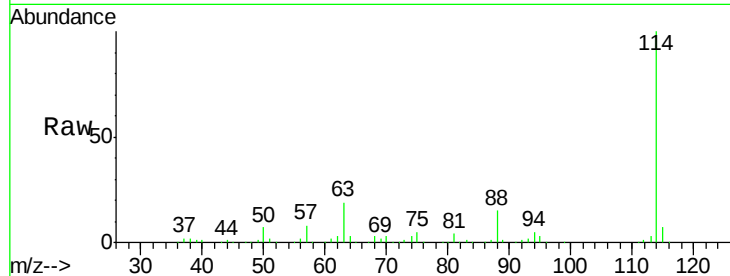




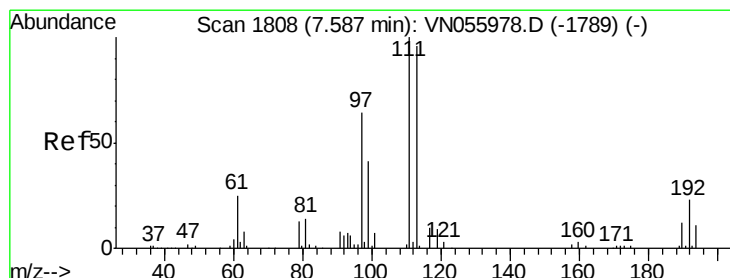
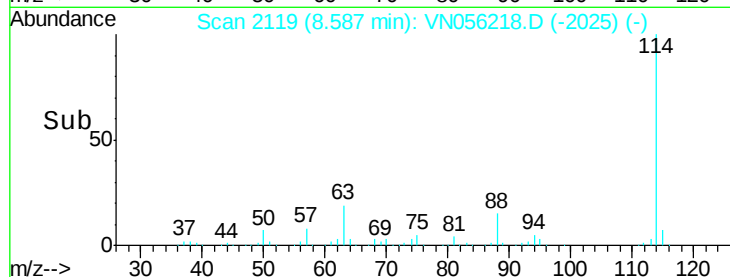
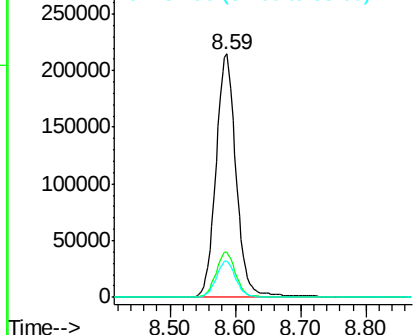
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.59 min Scan# 2119  
Delta R.T. 0.00 min  
Lab File: VN056218.D  
Acq: 11 Jun 2019 13:06

Instrument :  
MSVOA\_N  
ClientSampleId :  
BPS1-TT-MW310S-20190609

|             |       |          |
|-------------|-------|----------|
| Tot Ion:114 | Resp: | 462155   |
| Ion Ratio   | Lower | Upper    |
| 114         | 100   |          |
| 63          | 18.6  | 0.0 39.2 |
| 88          | 15.0  | 0.0 31.0 |

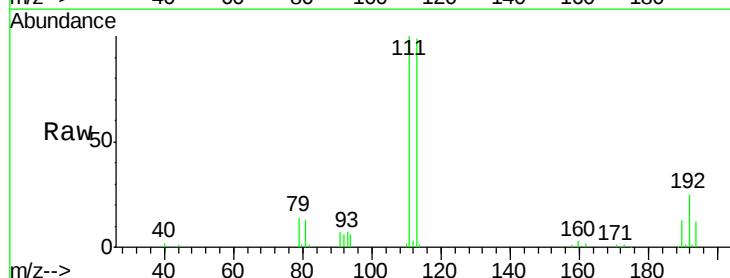


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): V  
Ion 87.90 (87.60 to 88.60): V

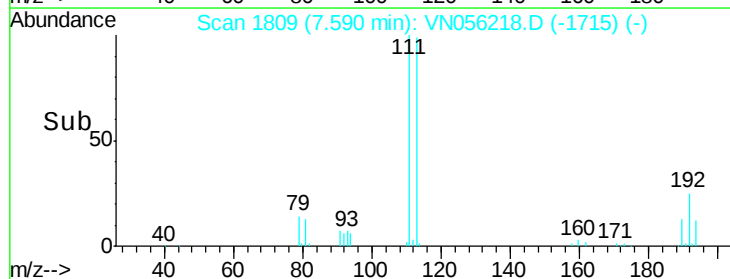
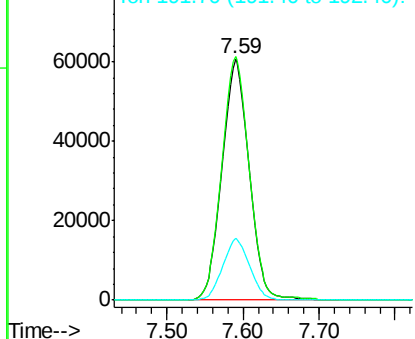


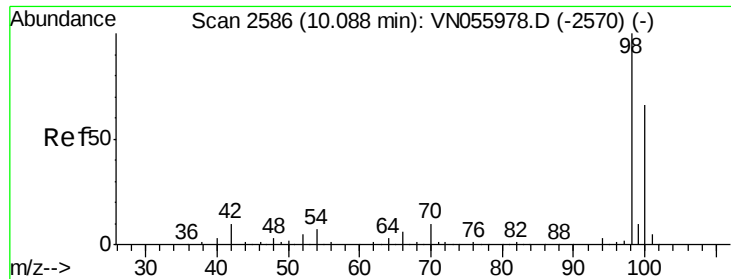
#35  
Dibromofluoromethane  
Concen: 53.383 ug/l  
RT: 7.59 min Scan# 1809  
Delta R.T. 0.00 min  
Lab File: VN056218.D  
Acq: 11 Jun 2019 13:06

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:113 | Resp: | 151367     |
| Ion Ratio   | Lower | Upper      |
| 113         | 100   |            |
| 111         | 102.2 | 81.9 122.9 |
| 192         | 25.2  | 19.5 29.3  |



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: 54.072 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056218.D

Acq: 11 Jun 2019 13:06

Instrument :

MSVOA\_N

ClientSampleId :

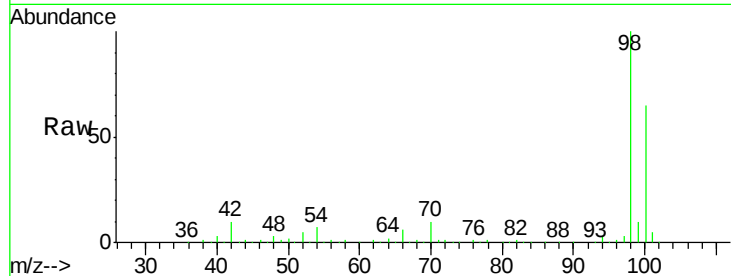
BPS1-TT-MW310S-20190609

Tot Ion: 98 Resp: 589980

Ion Ratio Lower Upper

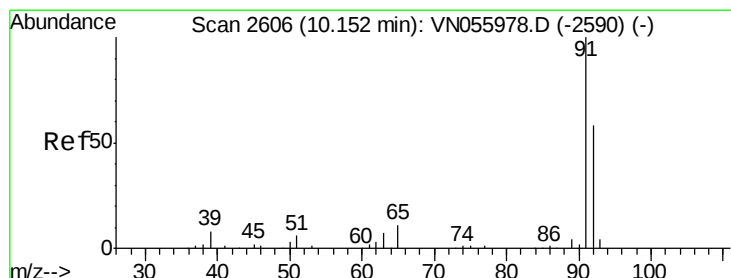
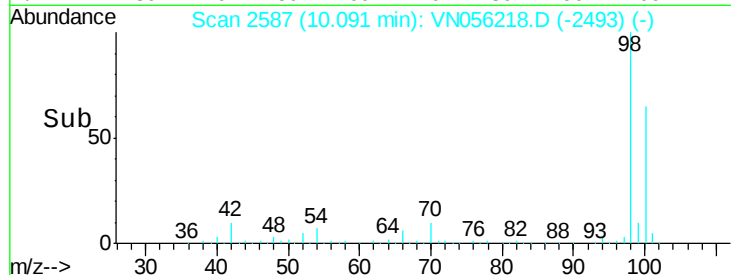
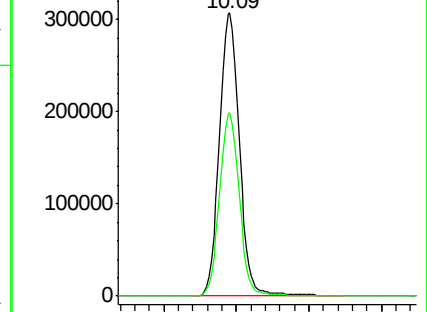
98 100

100 63.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)



#52

Toluene

Concen: 0.550 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056218.D

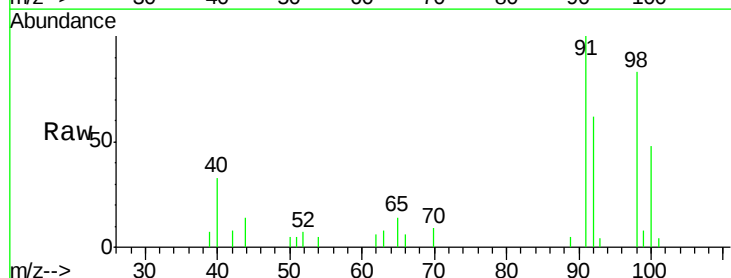
Acq: 11 Jun 2019 13:06

Tgt Ion: 92 Resp: 4130

Ion Ratio Lower Upper

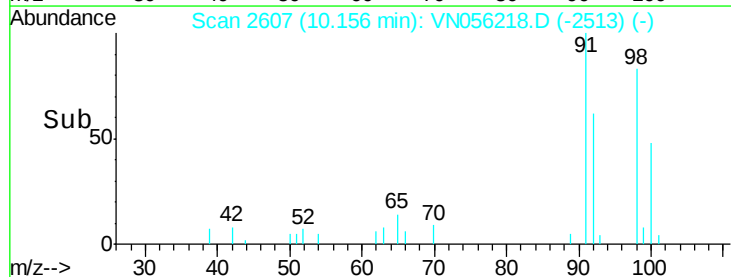
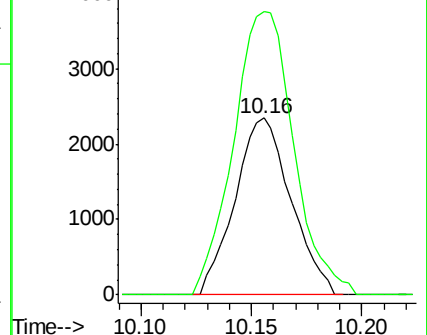
92 100

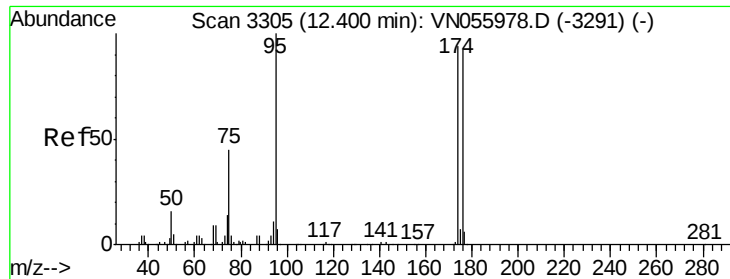
91 172.3 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN055978.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN055978.D (-2590) (-)





#62

4-Bromofluorobenzene

Concen: 47.485 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056218.D

Acq: 11 Jun 2019 13:06

Instrument :

MSVOA\_N

ClientSampleId :

BPS1-TT-MW310S-20190609

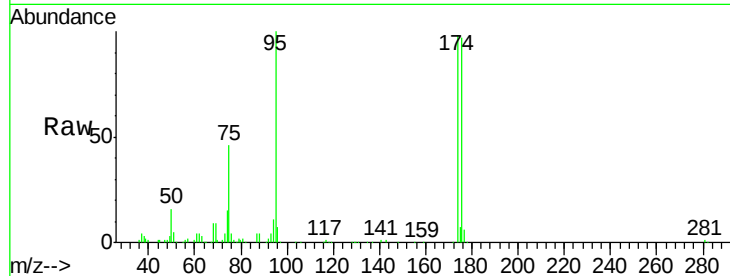
Tot Ion: 95 Resp: 176195

Ion Ratio Lower Upper

95 100

174 99.3 0.0 191.0

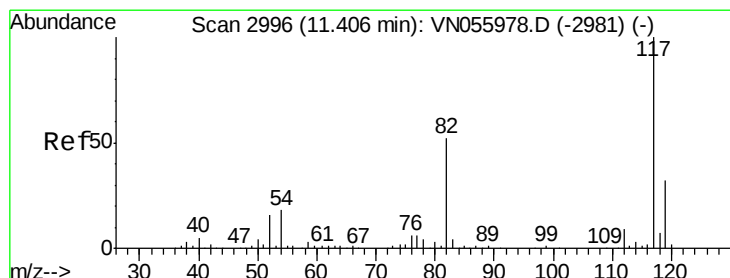
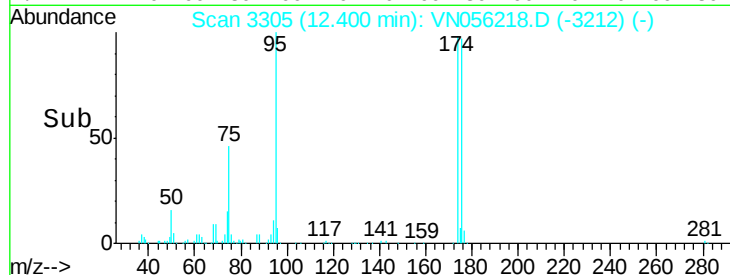
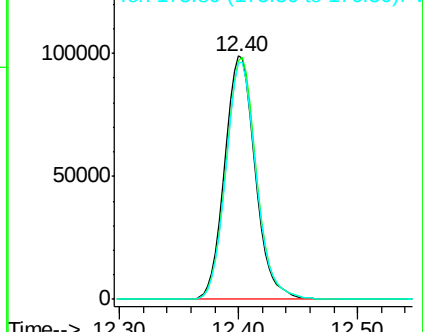
176 96.5 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056218.D

Acq: 11 Jun 2019 13:06

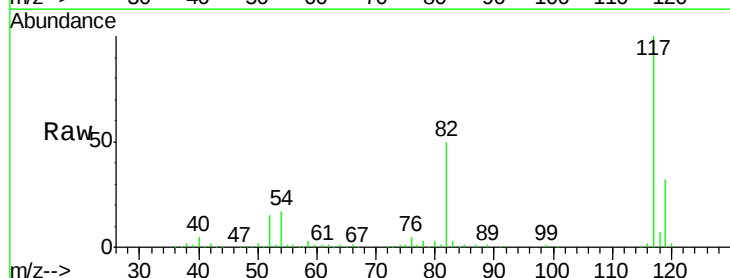
Tgt Ion: 117 Resp: 445292

Ion Ratio Lower Upper

117 100

82 50.5 41.8 62.8

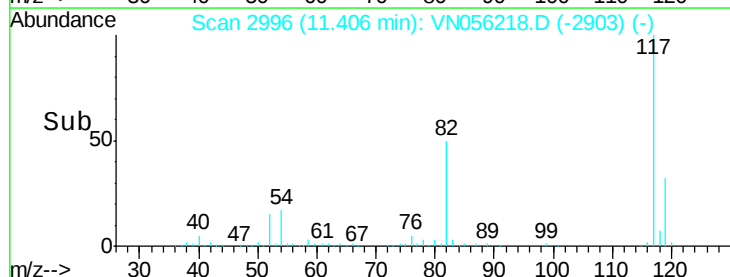
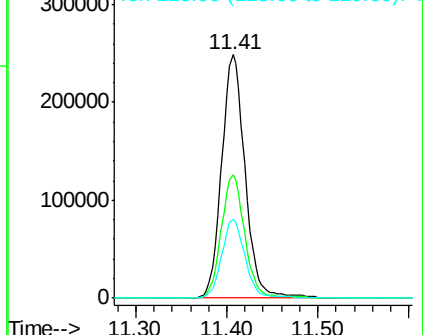
119 32.4 25.4 38.0

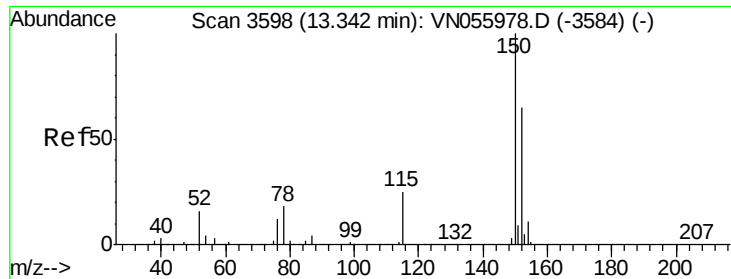


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056218.D

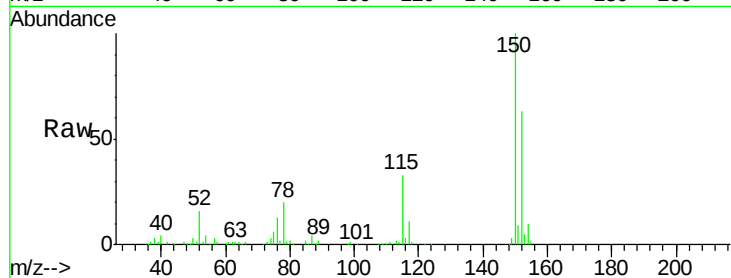
Acq: 11 Jun 2019 13:06

Instrument :

MSVOA\_N

ClientSampleId :

BPS1-TT-MW310S-20190609



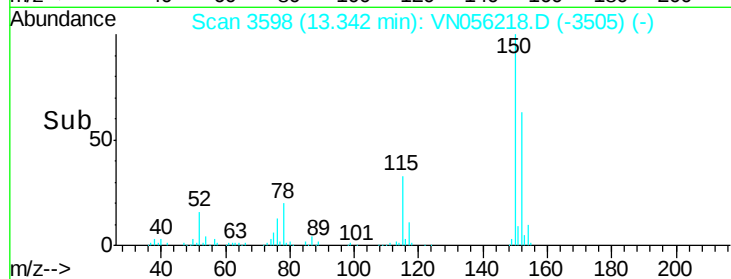
Tot Ion:152 Resp: 130130

Ion Ratio Lower Upper

152 100

115 51.6 27.0 81.0

150 156.8 0.0 343.2



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

