

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\  
 Data File : VN056184.D  
 Acq On : 10 Jun 2019 22:29  
 Operator : JC/SP  
 Sample : VN0610WBL02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0610WBL02

Quant Time: Jun 11 04:37:40 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  | 306527   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 463428   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 450960   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 140195   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 162823   | 53.50 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.00% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 149882   | 52.71 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.42% |      |
| 50) Toluene-d8              | 10.09  | 98  | 582979   | 53.28 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.56% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 185351   | 49.82 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.64%  |      |

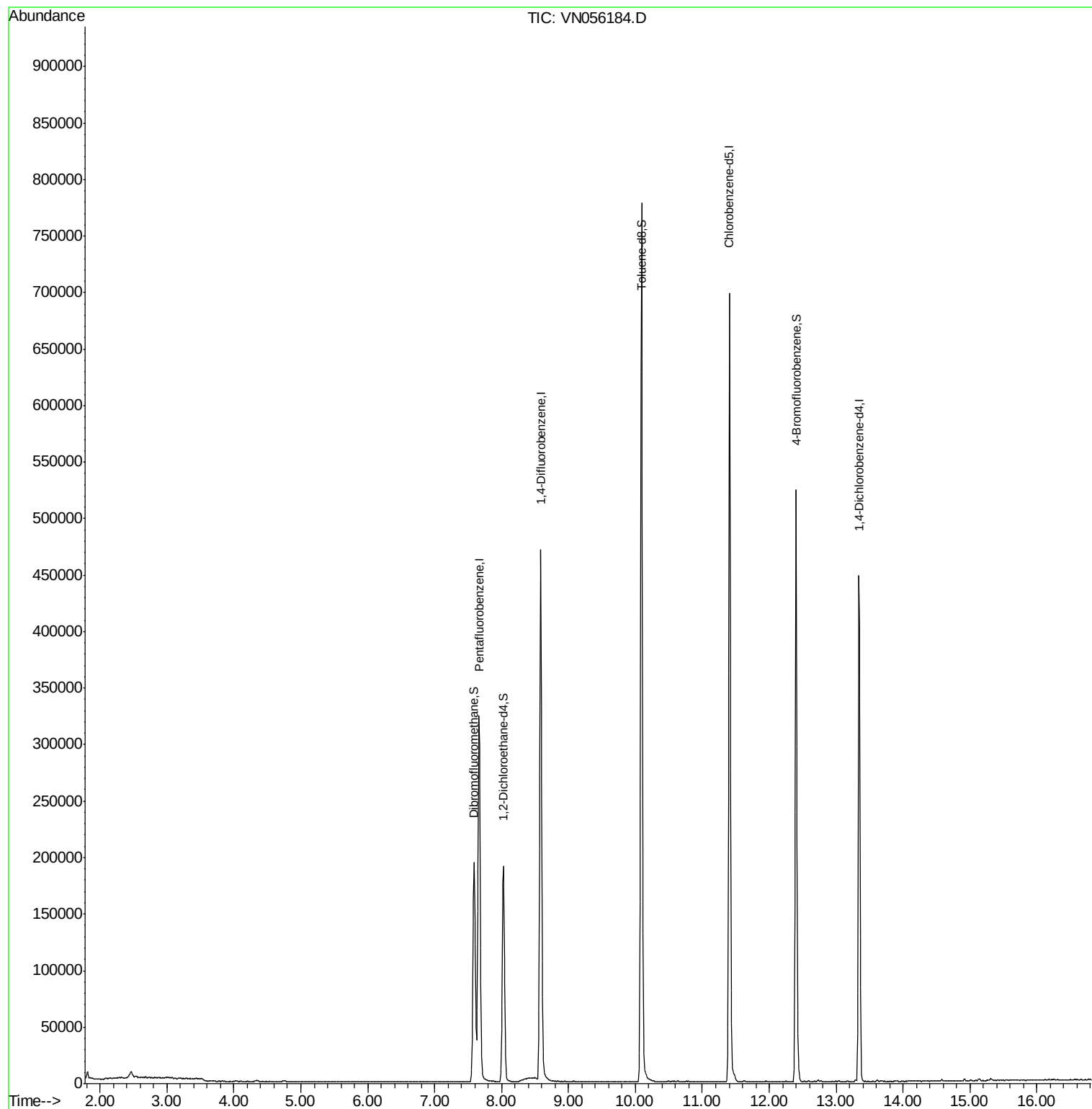
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

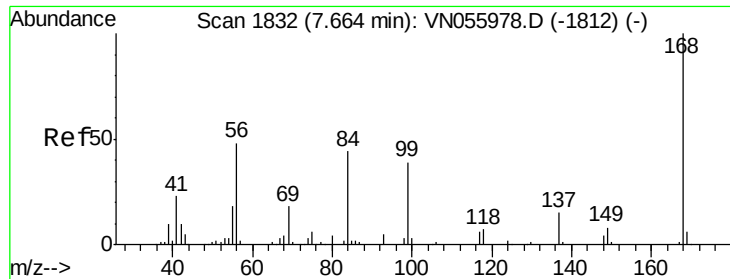
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061019\  
Data File : VN056184.D  
Acq On : 10 Jun 2019 22:29  
Operator : JC/SP  
Sample : VN0610WBL02  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0610WBL02

Quant Time: Jun 11 04:37:40 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: VN056184.D

Acq: 10 Jun 2019 22:29

Instrument :

MSVOA\_N

ClientSampleId :

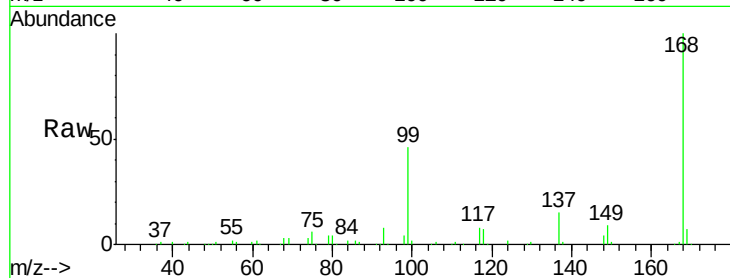
VN0610WBL02

Tot Ion:168 Resp: 306527

Ion Ratio Lower Upper

168 100

99 45.9 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

150000

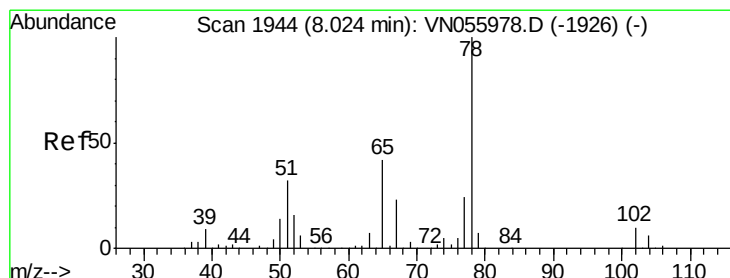
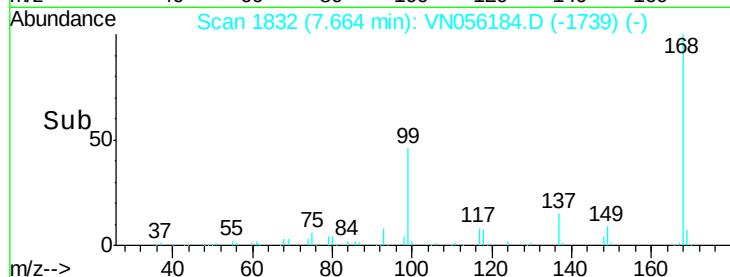
100000

50000

0

Time-->

7.60 7.70 7.80



#33

1,2-Dichloroethane-d4

Concen: 53.498 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056184.D

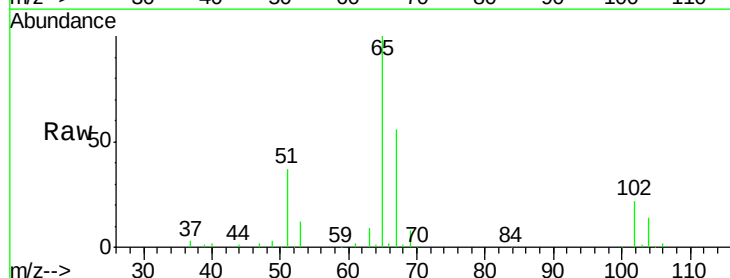
Acq: 10 Jun 2019 22:29

Tgt Ion: 65 Resp: 162823

Ion Ratio Lower Upper

65 100

67 54.5 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

80000

60000

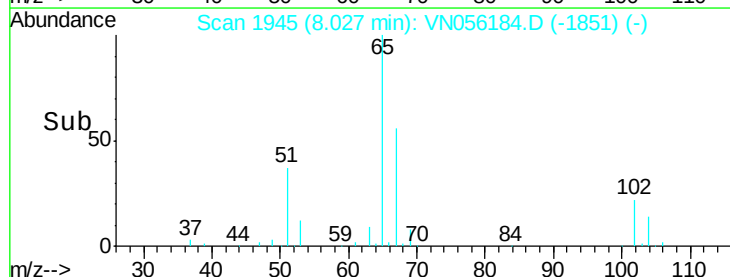
40000

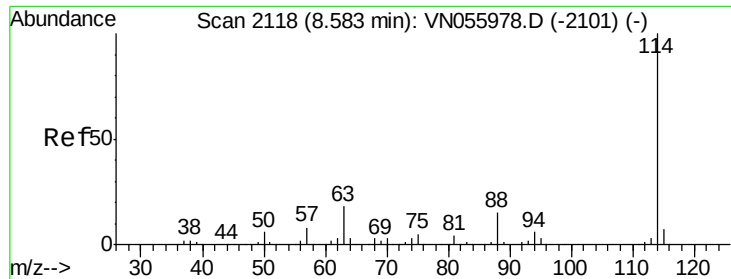
20000

0

Time-->

7.90 8.00 8.10 8.20

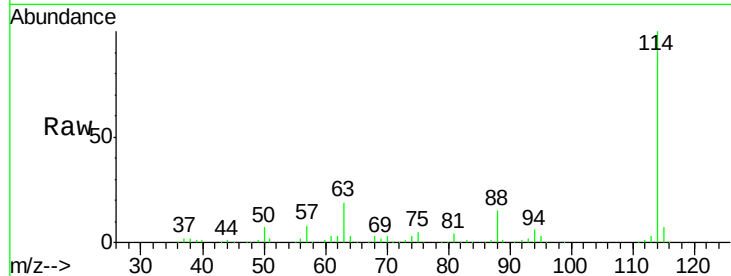




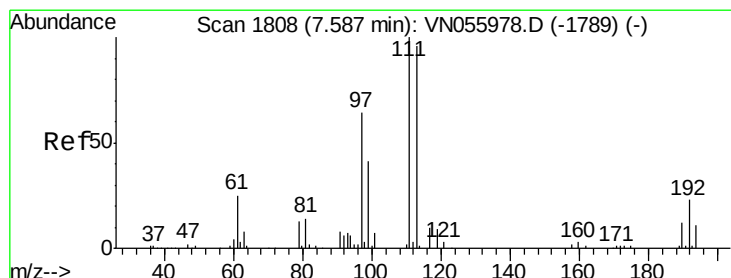
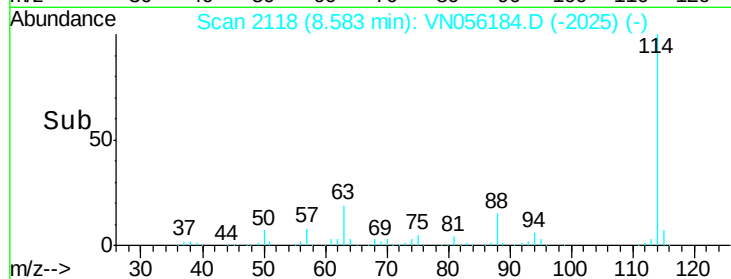
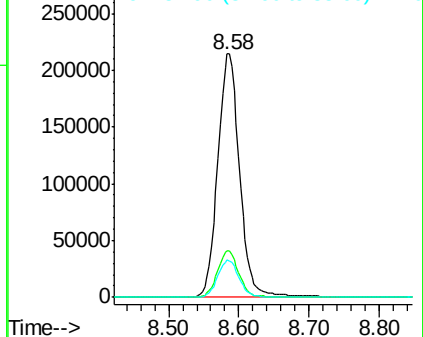
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.58 min Scan# 2118  
Delta R.T. -0.00 min  
Lab File: VN056184.D  
Acq: 10 Jun 2019 22:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0610WBL02

Tot Ion:114 Resp: 463428  
Ion Ratio Lower Upper  
114 100  
63 19.2 0.0 39.2  
88 15.2 0.0 31.0

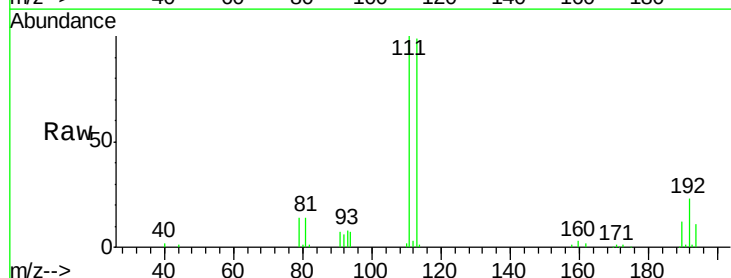


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

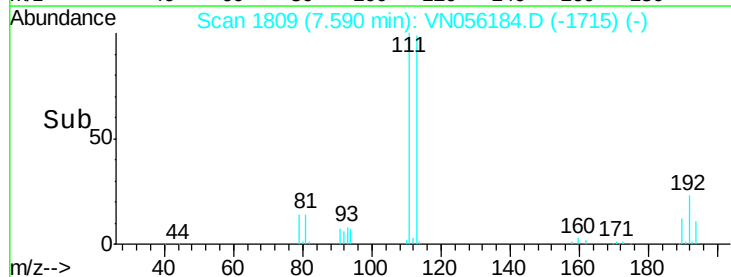
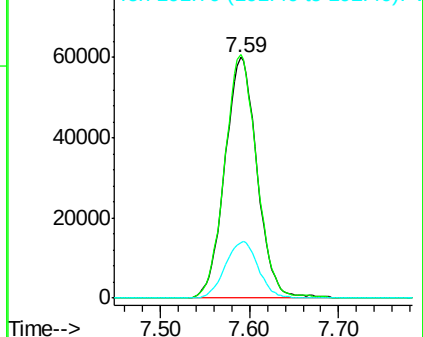


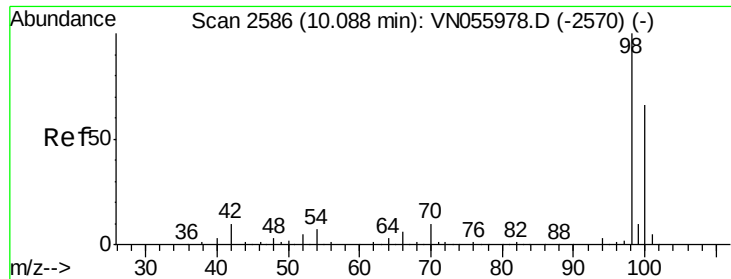
#35  
Dibromofluoromethane  
Concen: 52.714 ug/l  
RT: 7.59 min Scan# 1809  
Delta R.T. 0.00 min  
Lab File: VN056184.D  
Acq: 10 Jun 2019 22:29

Tgt Ion:113 Resp: 149882  
Ion Ratio Lower Upper  
113 100  
111 100.4 81.9 122.9  
192 24.1 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: 53.284 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056184.D

Acq: 10 Jun 2019 22:29

Instrument :

MSVOA\_N

ClientSampleId :

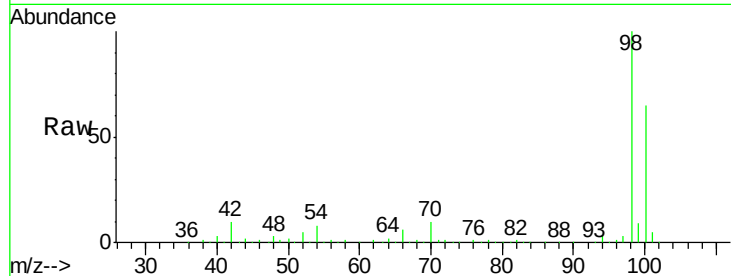
VN0610WBL02

Tot Ion: 98 Resp: 582979

Ion Ratio Lower Upper

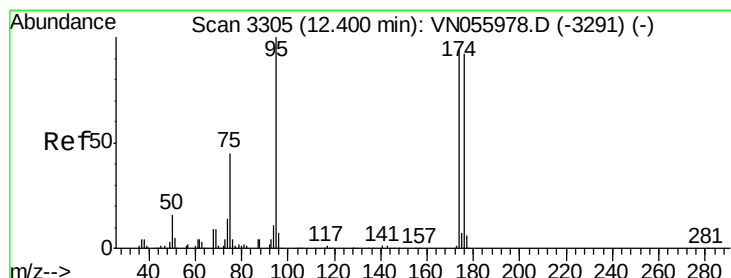
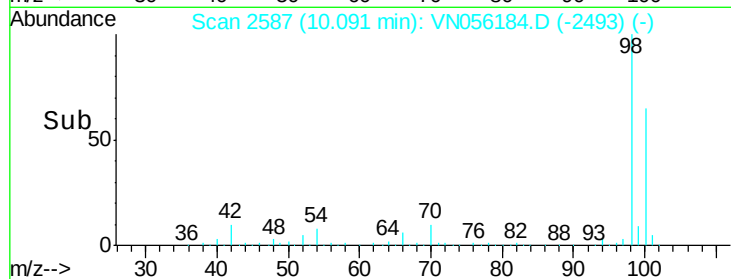
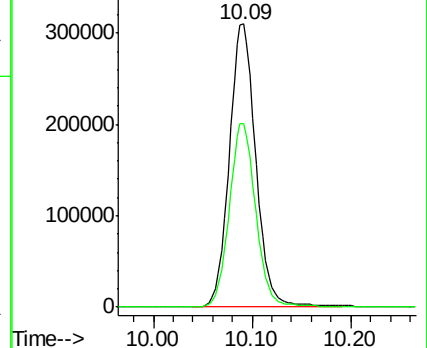
98 100

100 65.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 49.815 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056184.D

Acq: 10 Jun 2019 22:29

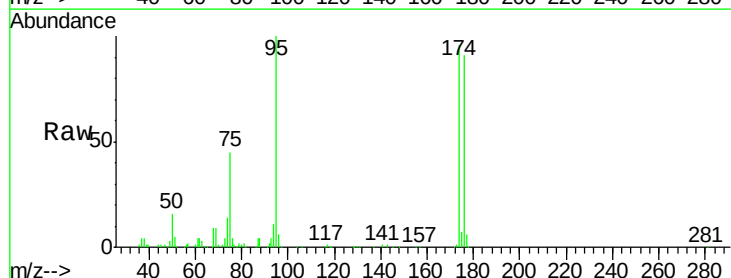
Tgt Ion: 95 Resp: 185351

Ion Ratio Lower Upper

95 100

174 97.9 0.0 191.0

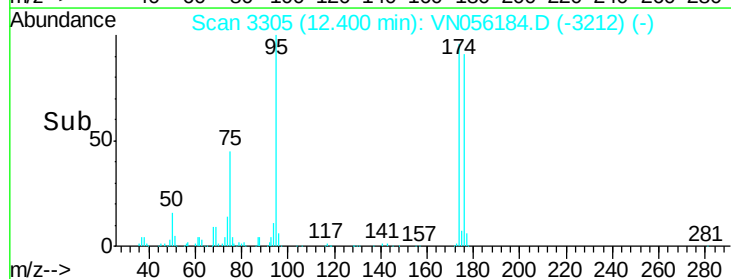
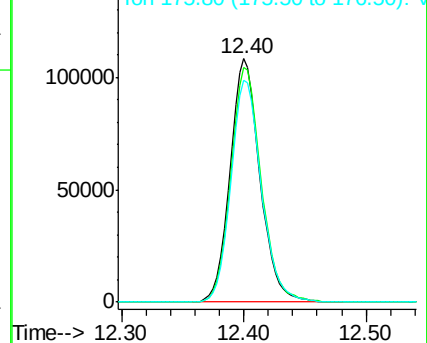
176 93.1 0.0 185.2

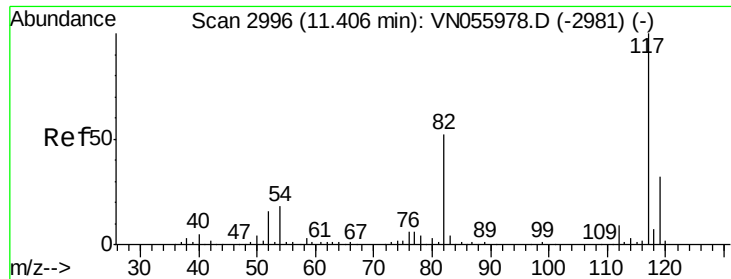


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

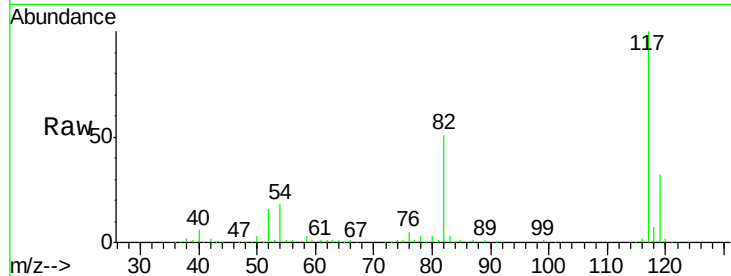




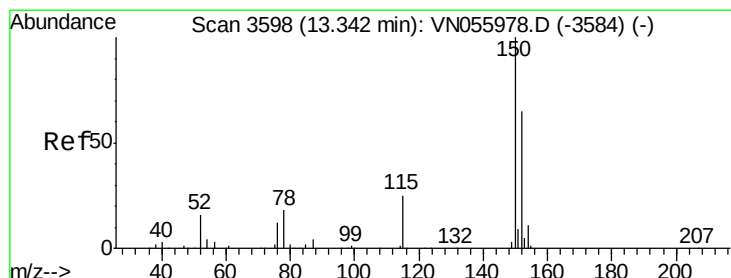
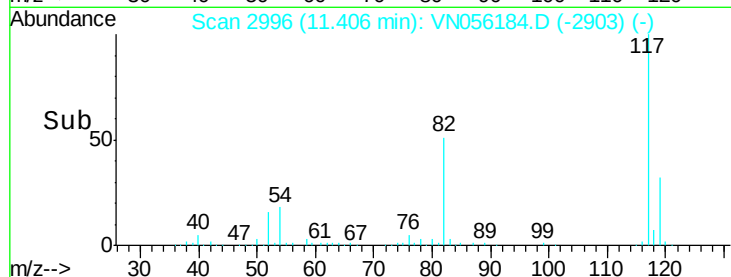
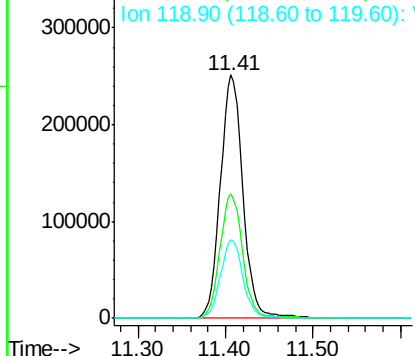
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN056184.D  
Acq: 10 Jun 2019 22:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0610WBL02

Tot Ion:117 Resp: 450960  
Ion Ratio Lower Upper  
117 100  
82 51.1 41.8 62.8  
119 32.2 25.4 38.0

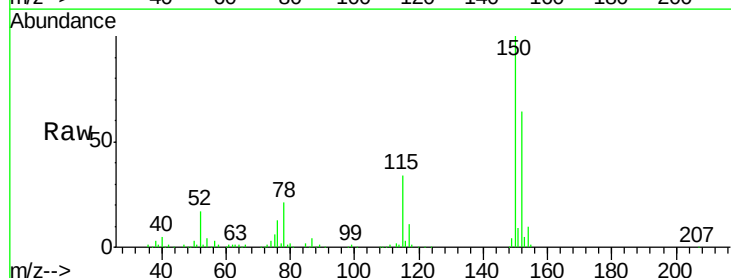


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: VN056184.D  
Acq: 10 Jun 2019 22:29

Tgt Ion:152 Resp: 140195  
Ion Ratio Lower Upper  
152 100  
115 52.3 27.0 81.0  
150 155.5 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

