

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\  
 Data File : VN055512.D  
 Acq On : 9 May 2019 22:19  
 Operator : JC/SP  
 Sample : VN0509WBL02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0509WBL02

Quant Time: May 10 05:21:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N050819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 04:17:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 913298   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1503872  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1254130  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 350319   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 604916   | 43.99 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 87.98% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 466648   | 48.10 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.20% |      |
| 50) Toluene-d8              | 10.09  | 98  | 1835489  | 48.55 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.10% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 527918   | 41.41 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 82.82% |      |

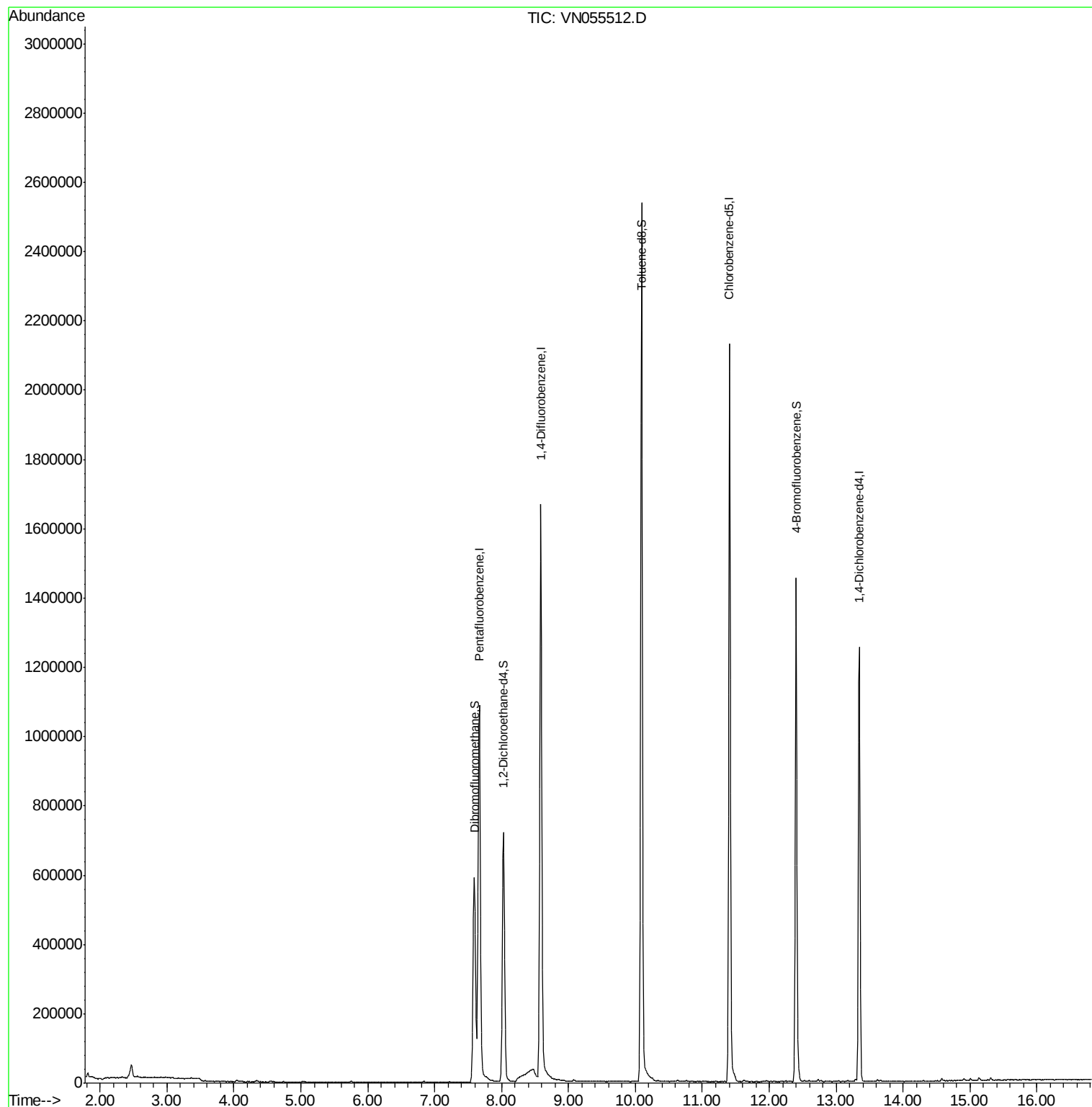
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

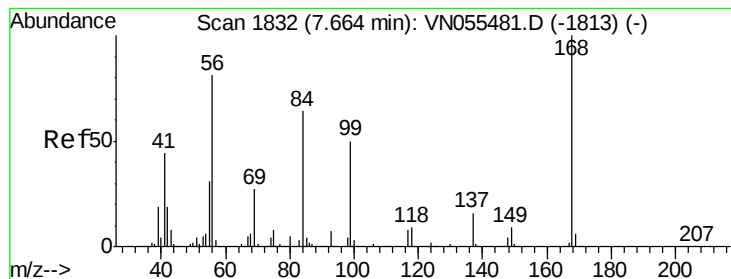
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu May 09 04:17:44 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055512.D

Acq: 9 May 2019 22:19

Instrument :

MSVOA\_N

ClientSampleId :

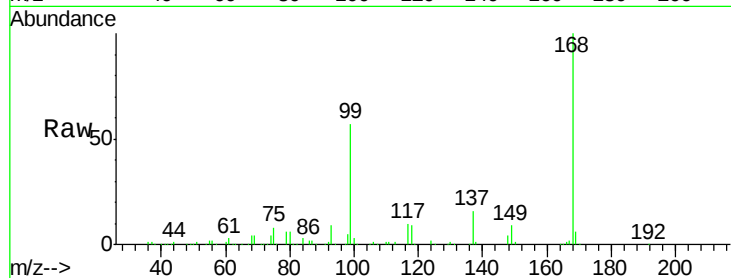
VN0509WBL02

Tot Ion:168 Resp: 913298

Ion Ratio Lower Upper

168 100

99 57.1 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

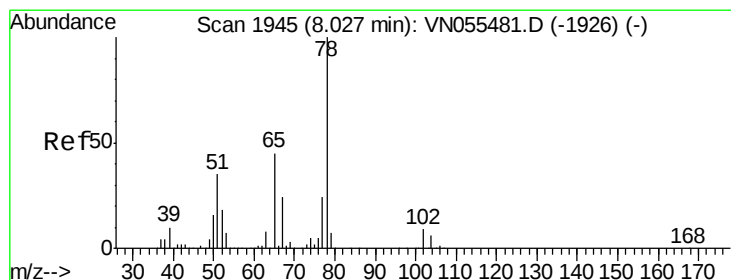
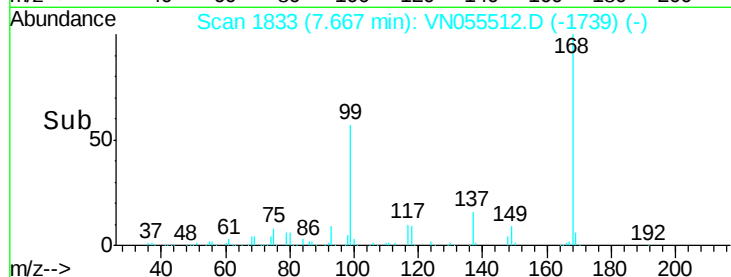
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#33

1,2-Dichloroethane-d4

Concen: 43.990 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN055512.D

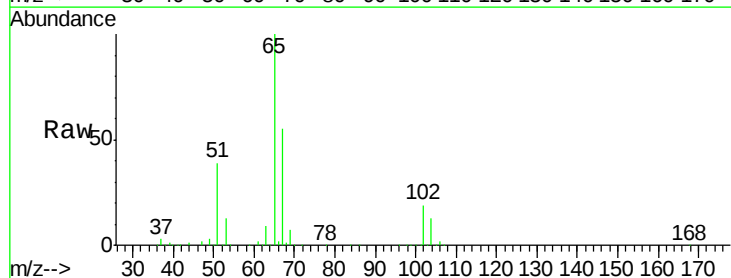
Acq: 9 May 2019 22:19

Tgt Ion: 65 Resp: 604916

Ion Ratio Lower Upper

65 100

67 54.6 0.0 109.6



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

8.03

300000

250000

200000

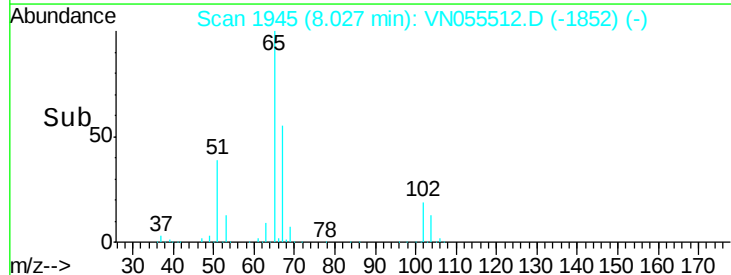
150000

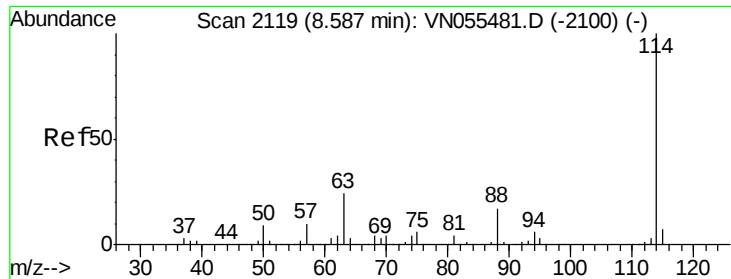
100000

50000

0

Time--> 7.90 8.00 8.10

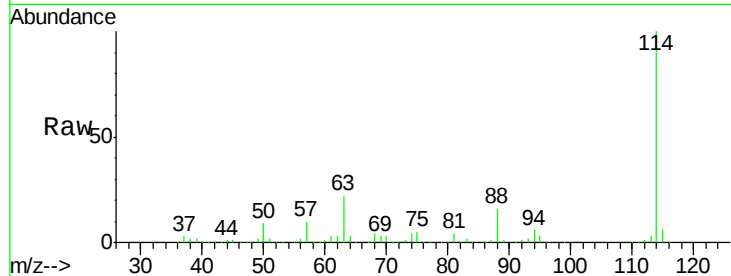




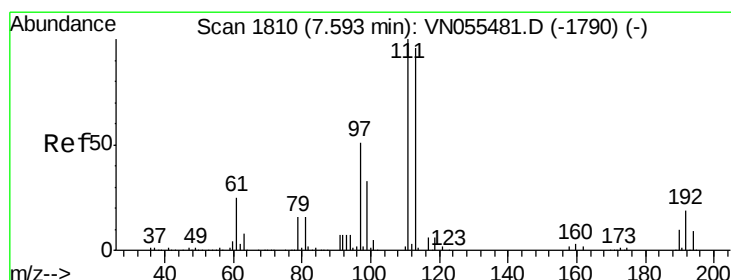
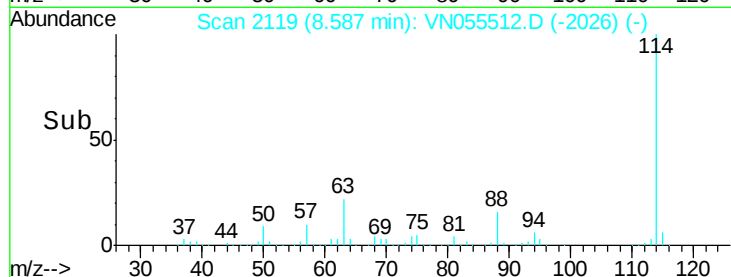
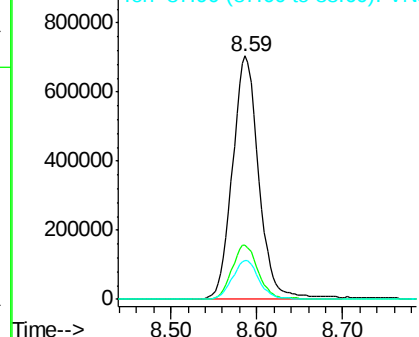
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN055512.D  
 Acq: 9 May 2019 22:19

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0509WBL02

Tot Ion:114 Resp: 1503872  
 Ion Ratio Lower Upper  
 114 100  
 63 22.3 0.0 47.4  
 88 16.1 0.0 34.0

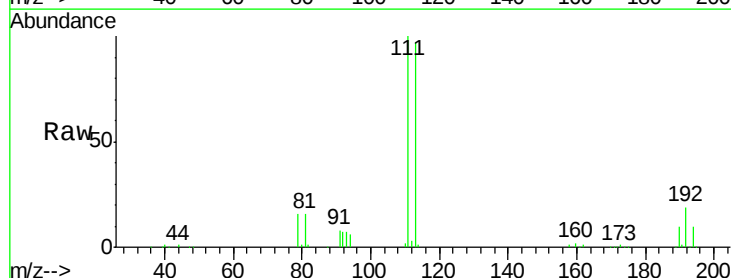


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

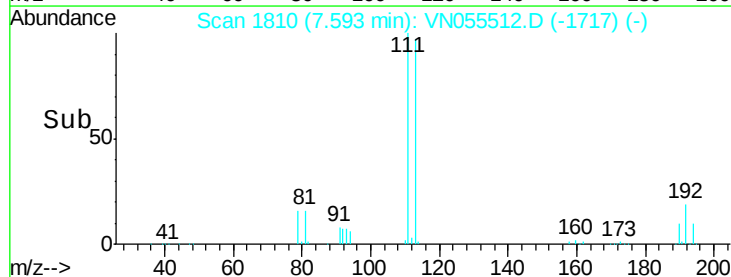
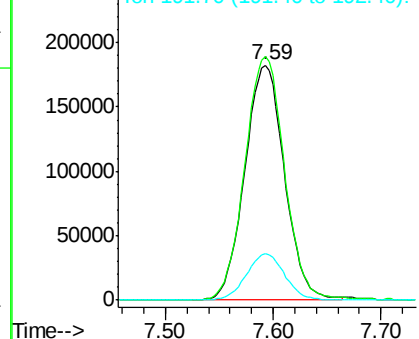


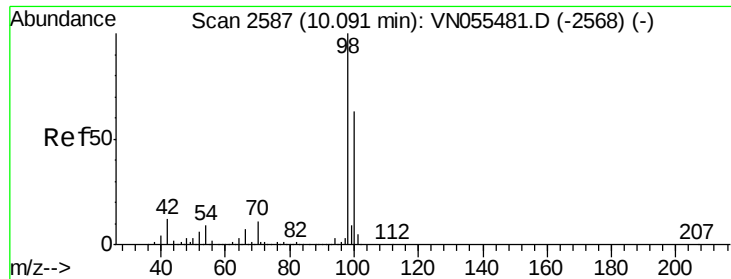
#35  
 Dibromofluoromethane  
 Concen: 48.102 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VN055512.D  
 Acq: 9 May 2019 22:19

Tgt Ion:113 Resp: 466648  
 Ion Ratio Lower Upper  
 113 100  
 111 104.2 82.9 124.3  
 192 19.3 15.6 23.4



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: 48.552 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055512.D

Acq: 9 May 2019 22:19

Instrument :

MSVOA\_N

ClientSampled :

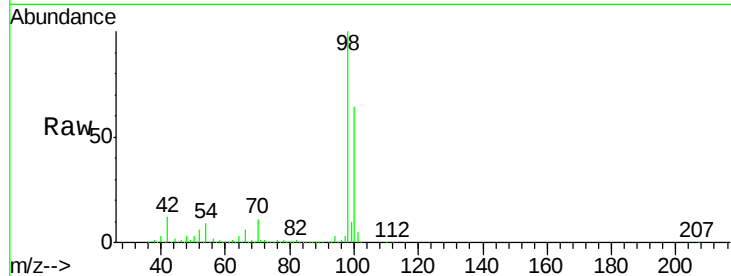
VN0509WBL02

Tot Ion: 98 Resp: 1835489

Ion Ratio Lower Upper

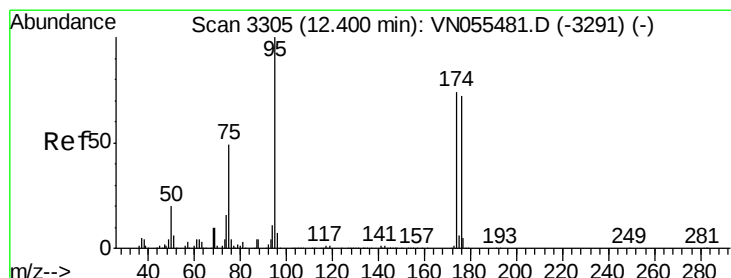
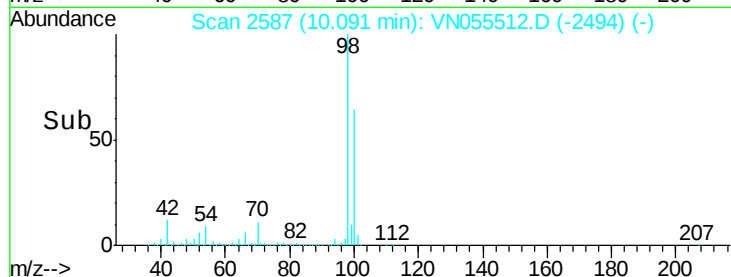
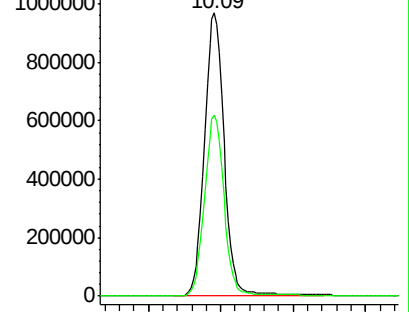
98 100

100 63.8 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN055481.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN055481.D (-2568) (-)



#62

4-Bromofluorobenzene

Concen: 41.415 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055512.D

Acq: 9 May 2019 22:19

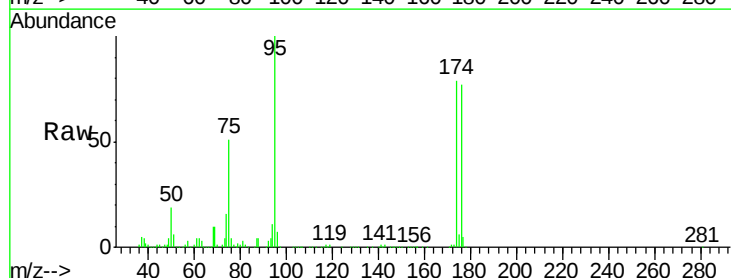
Tgt Ion: 95 Resp: 527918

Ion Ratio Lower Upper

95 100

174 78.5 0.0 152.2

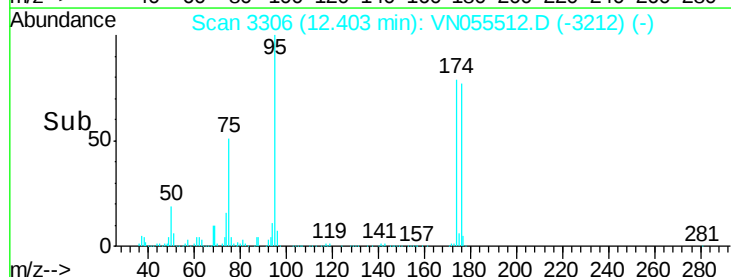
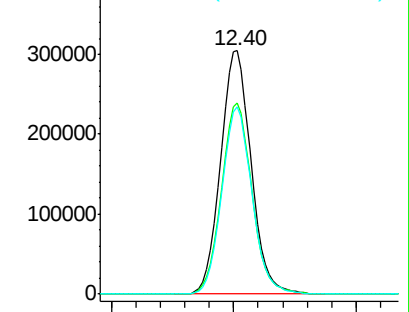
176 75.8 0.0 147.8

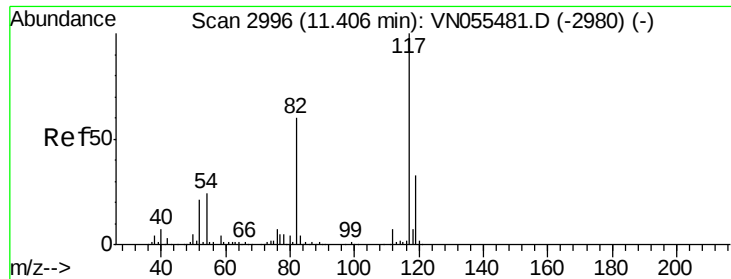


Abundance Ion 94.90 (94.60 to 95.60): VN055481.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055481.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055481.D (-3291) (-)

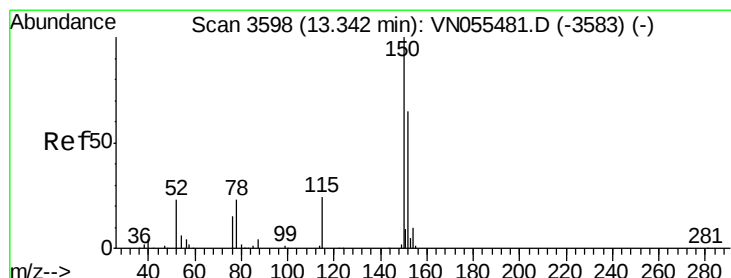
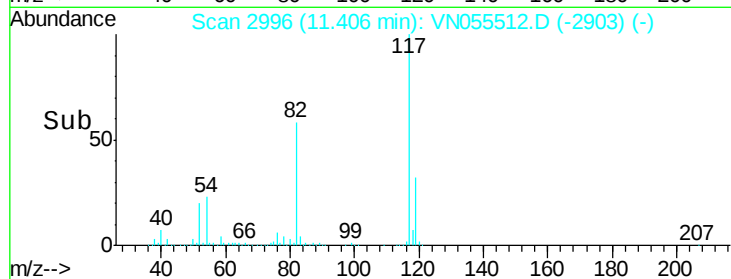
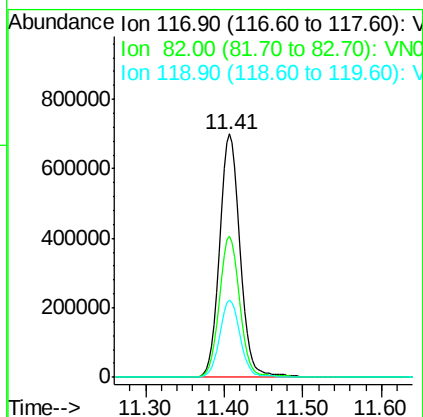
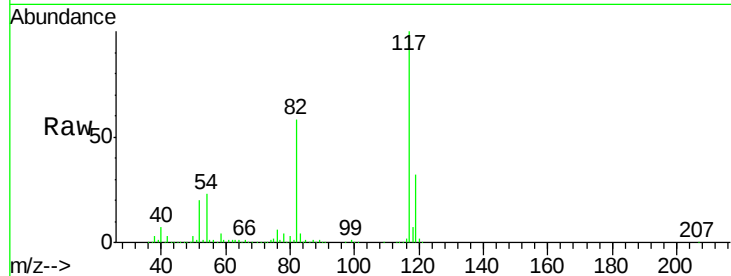




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN055512.D  
Acq: 9 May 2019 22:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0509WBL02

Tot Ion:117 Resp: 1254130  
Ion Ratio Lower Upper  
117 100  
82 57.8 48.0 72.0  
119 31.6 26.0 39.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN055512.D  
Acq: 9 May 2019 22:19

Tgt Ion:152 Resp: 350319  
Ion Ratio Lower Upper  
152 100  
115 60.9 30.1 90.5  
150 157.3 0.0 355.0

