

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011819\  
 Data File : VN053471.D  
 Acq On : 18 Jan 2019 14:50  
 Operator : JC/SP  
 Sample : K1199-18  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 14 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EB03-20190116

Quant Time: Jan 21 10:52:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 16 03:10:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 885579   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1383372  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1294723  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 563803   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 451337   | 51.56 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.12% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 403199   | 51.07 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.14% |      |
| 50) Toluene-d8              | 10.09  | 98  | 1714210  | 51.34 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.68% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 583358   | 49.82 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.64%  |      |

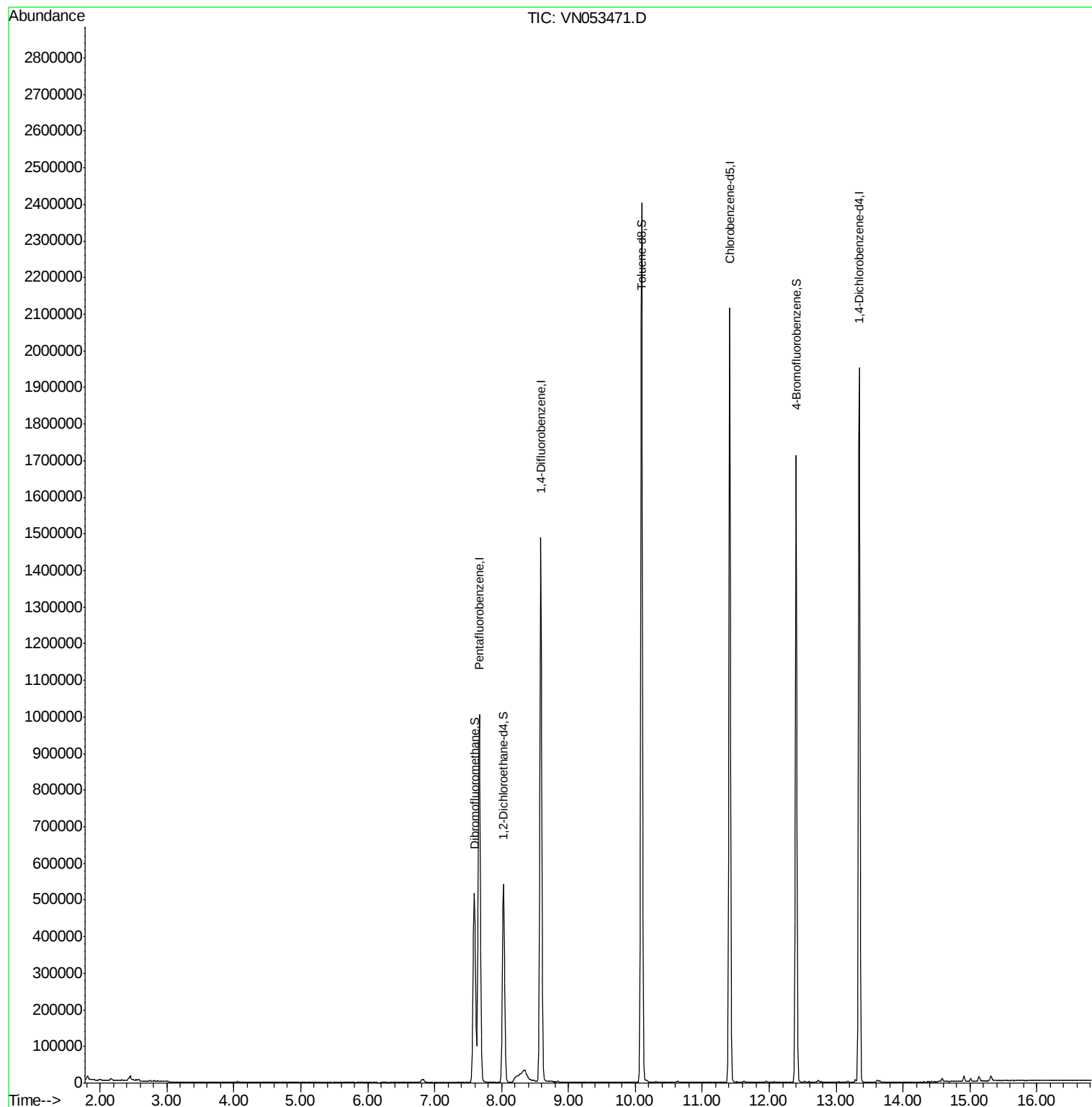
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

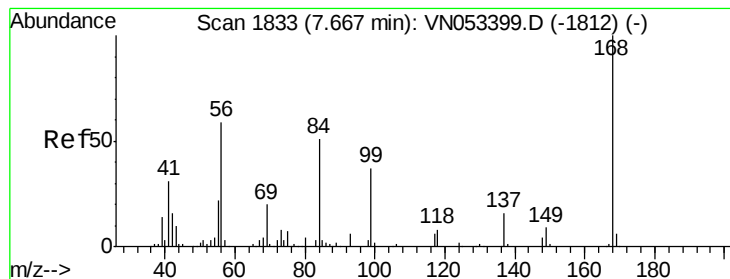
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN011819\  
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Quant Title : SW846 8260  
QLast Update : Wed Jan 16 03:10:53 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: VN053471.D

Acq: 18 Jan 2019 14:50

Instrument :

MSVOA\_N

ClientSampleId :

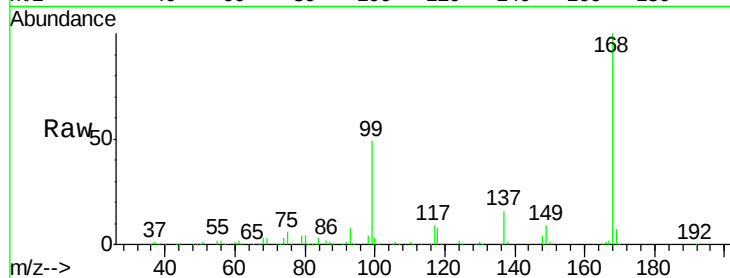
EB03-20190116

Tot Ion:168 Resp: 885579

Ion Ratio Lower Upper

168 100

99 49.0 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

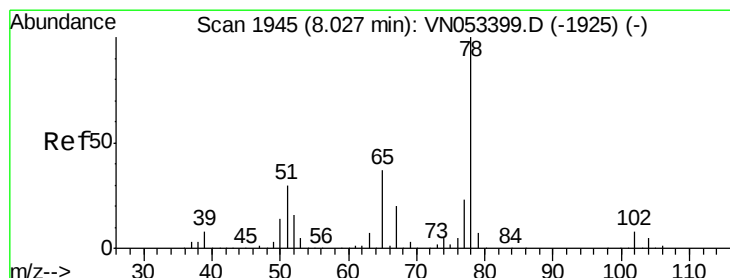
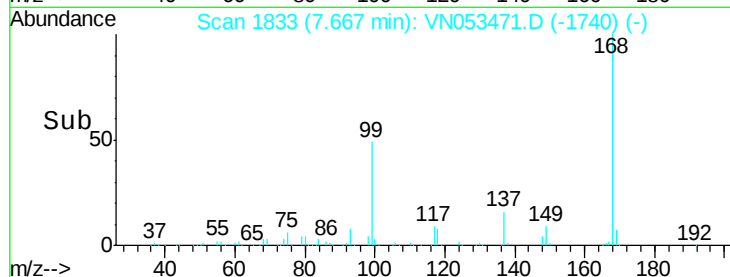
300000

200000

100000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053471.D

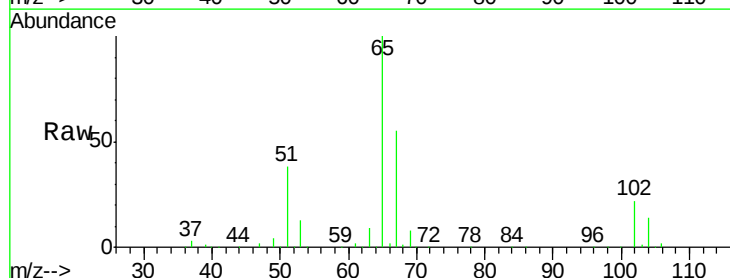
Acq: 18 Jan 2019 14:50

Tgt Ion: 65 Resp: 451337

Ion Ratio Lower Upper

65 100

67 55.1 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

8.03

200000

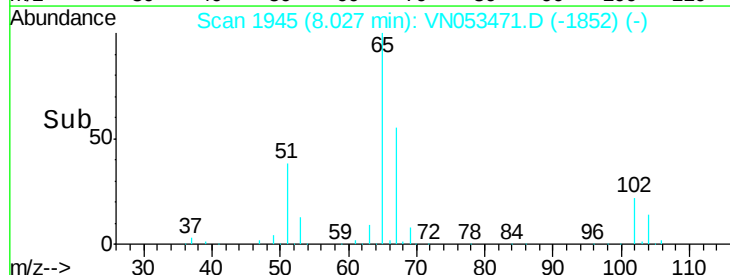
150000

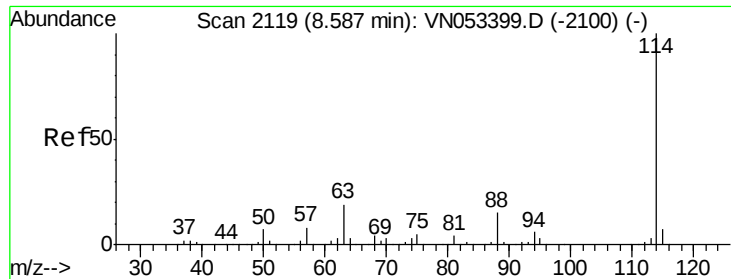
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50000

0

Time-->

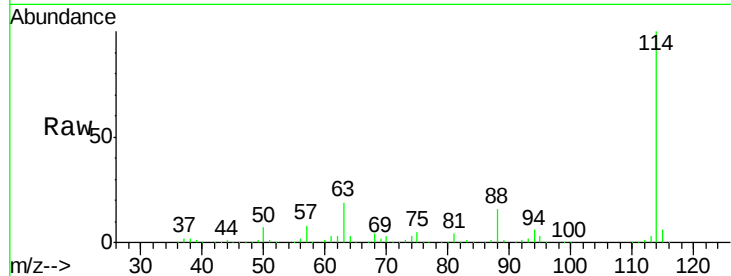




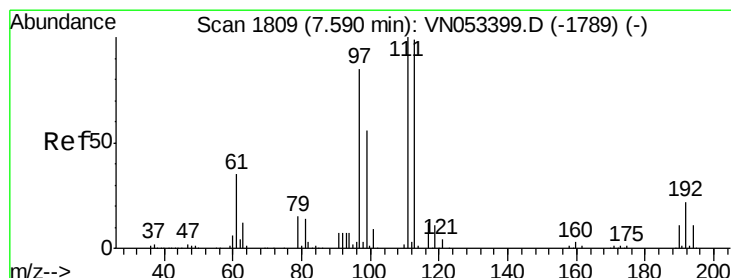
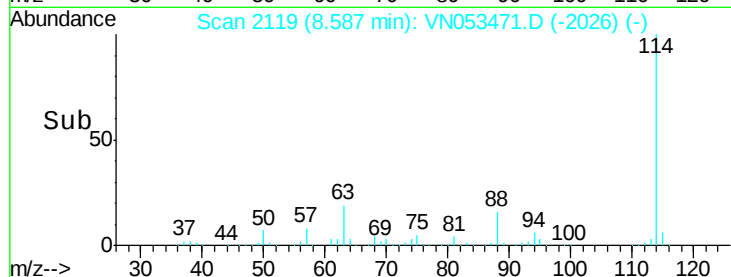
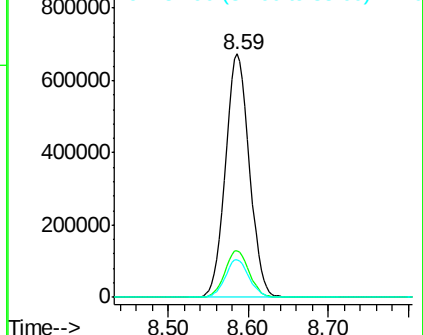
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN053471.D  
 Acq: 18 Jan 2019 14:50

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EB03-20190116

Tot Ion:114 Resp: 1383372  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 38.6  
 88 15.6 0.0 30.4

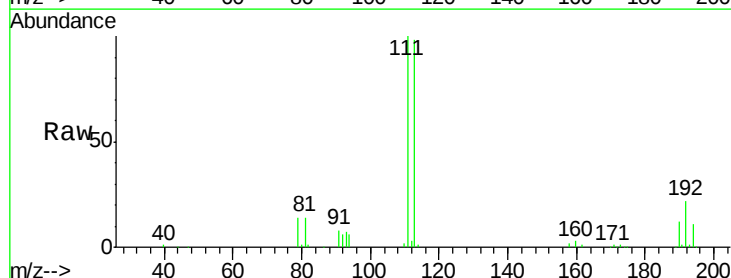


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

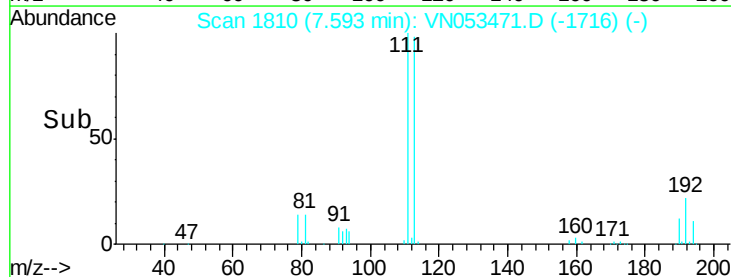
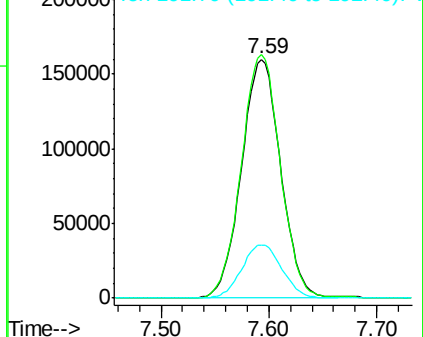


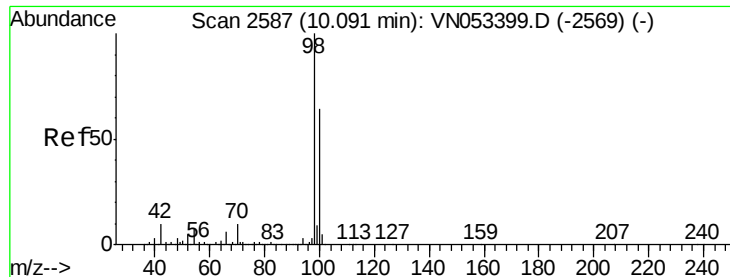
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN053471.D  
 Acq: 18 Jan 2019 14:50

Tgt Ion:113 Resp: 403199  
 Ion Ratio Lower Upper  
 113 100  
 111 101.4 81.1 121.7  
 192 22.8 18.2 27.2



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: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053471.D

Acq: 18 Jan 2019 14:50

Instrument :

MSVOA\_N

ClientSampleId :

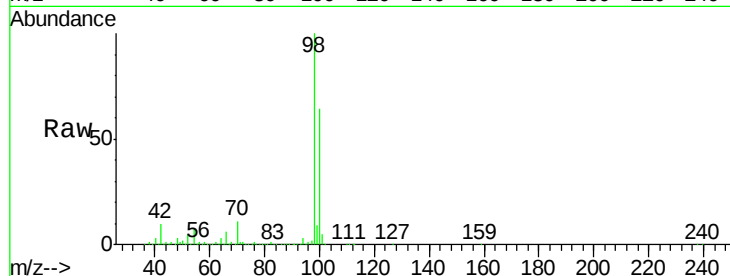
EB03-20190116

Tot Ion: 98 Resp: 1714210

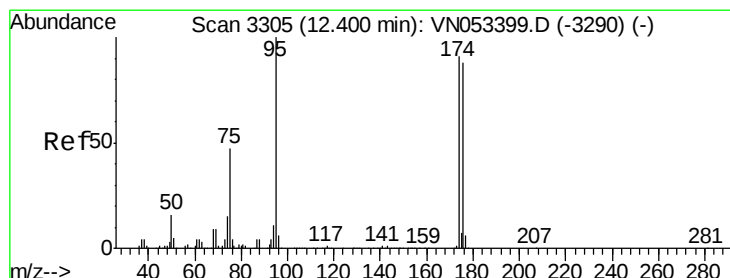
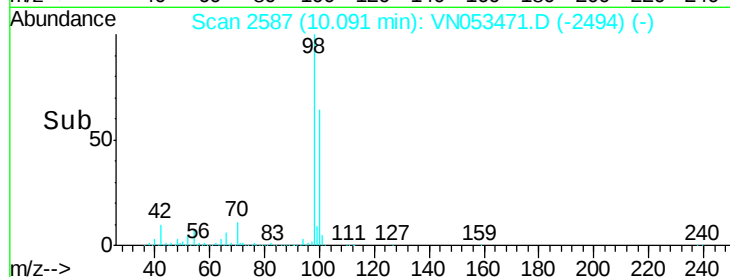
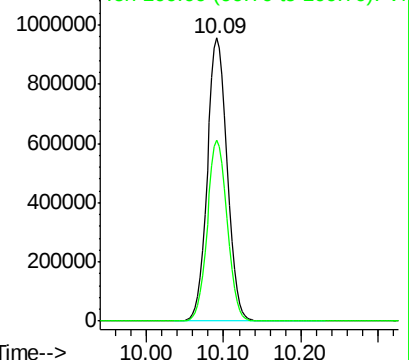
Ion Ratio Lower Upper

98 100

100 64.0 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053399.D (-2569) (-)



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053471.D

Acq: 18 Jan 2019 14:50

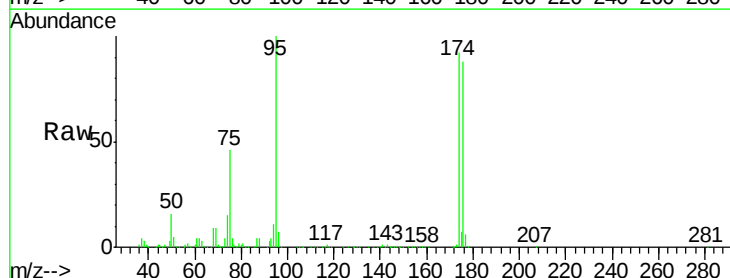
Tgt Ion: 95 Resp: 583358

Ion Ratio Lower Upper

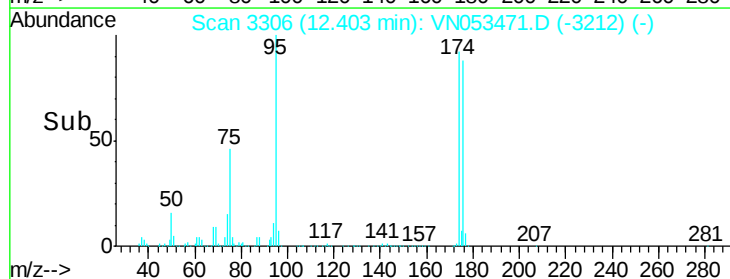
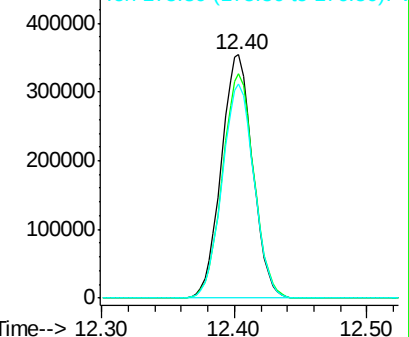
95 100

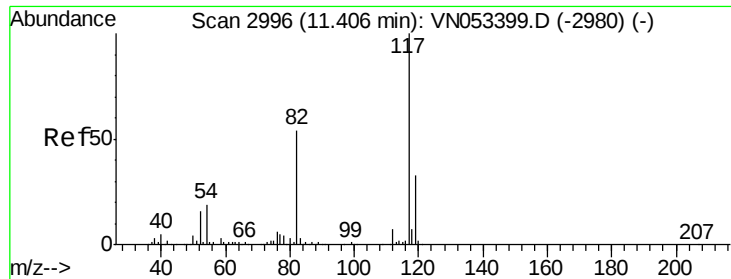
174 92.2 0.0 183.2

176 89.1 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053399.D (-3290) (-)

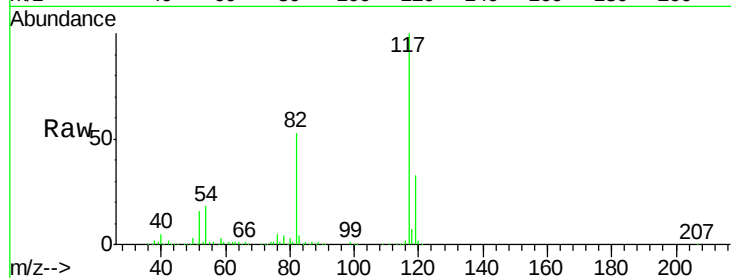




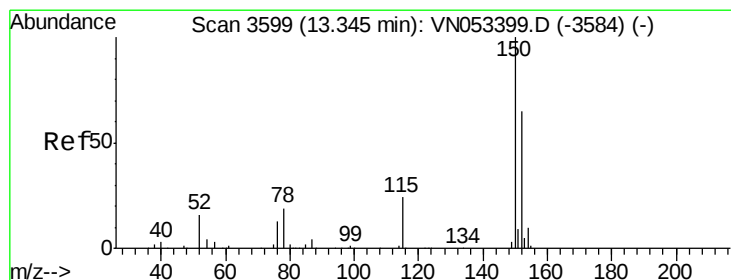
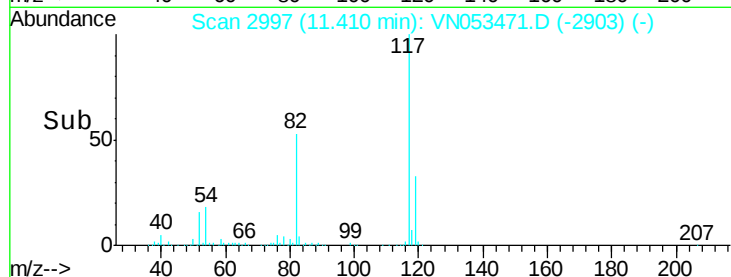
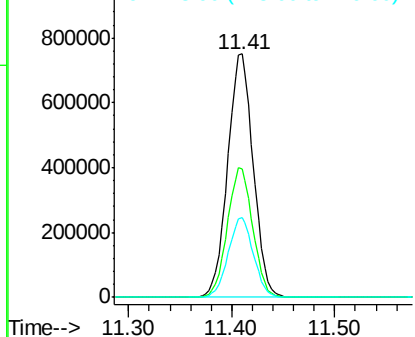
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN053471.D  
Acq: 18 Jan 2019 14:50

Instrument :  
MSVOA\_N  
ClientSampleId :  
EB03-20190116

Tot Ion:117 Resp: 1294723  
Ion Ratio Lower Upper  
117 100  
82 52.9 42.9 64.3  
119 32.8 26.0 39.0

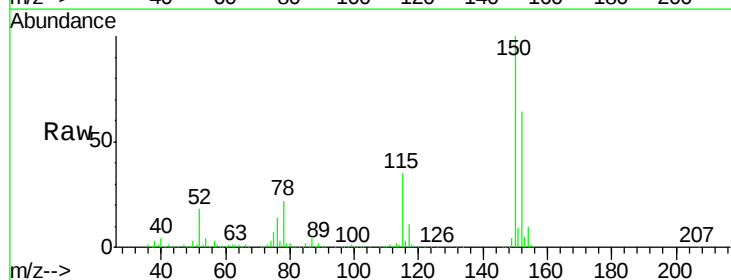


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN053471.D  
Acq: 18 Jan 2019 14:50

Tgt Ion:152 Resp: 563803  
Ion Ratio Lower Upper  
152 100  
115 55.2 27.8 83.4  
150 156.7 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

