

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072418\  
 Data File : VN050019.D  
 Acq On : 24 Jul 2018 14:28  
 Operator : MD\SY  
 Sample : VN0724WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0724WBL01

Quant Time: Jul 25 01:28:14 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 24 06:27:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 631158   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1002816  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 814936   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 268214   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 509727   | 57.88 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 115.76% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 455589   | 55.64 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 111.28% |      |
| 50) Toluene-d8              | 10.09  | 98  | 1565040  | 51.99 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.98% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 393127   | 39.66 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 79.32%  |      |

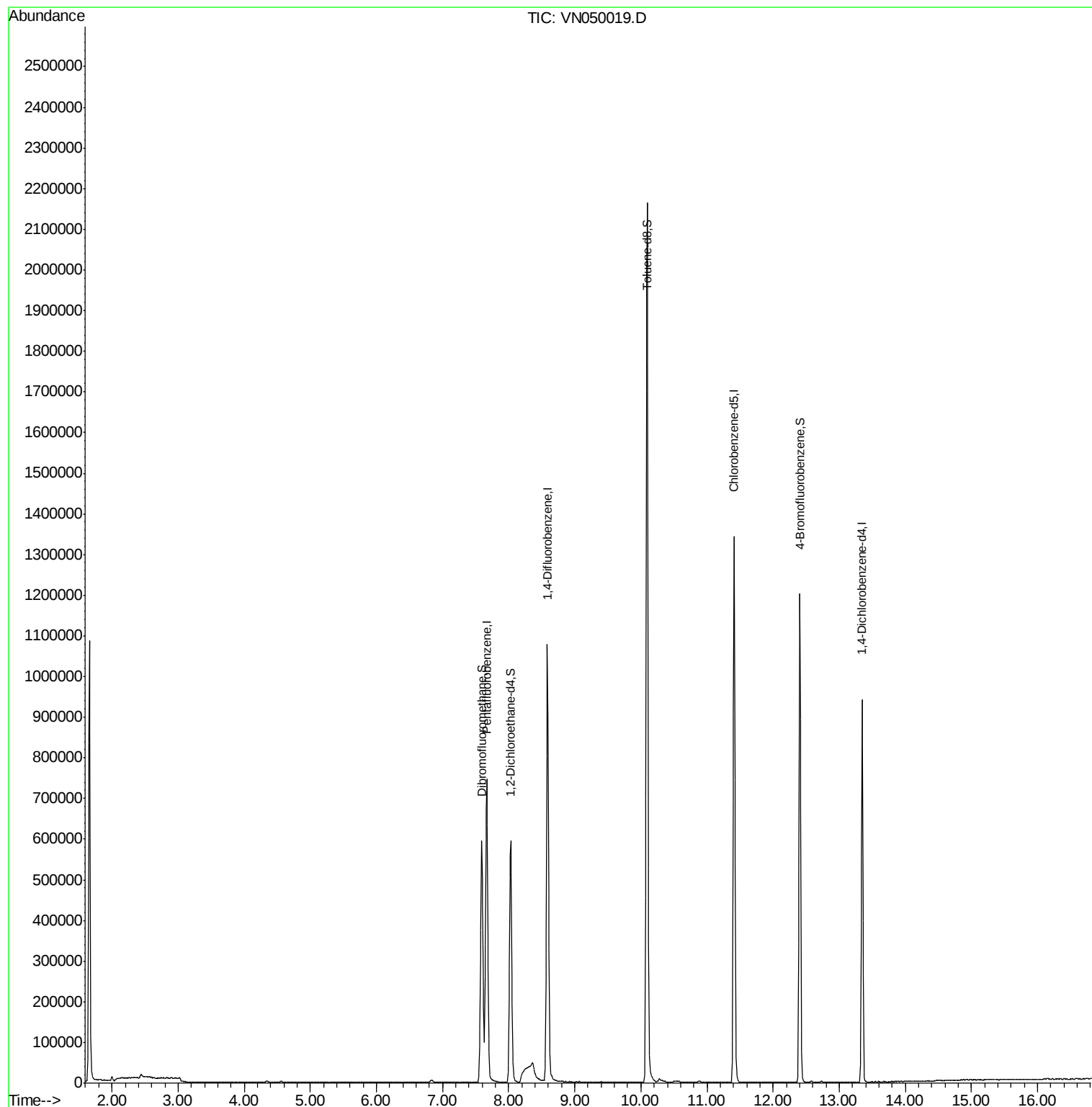
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

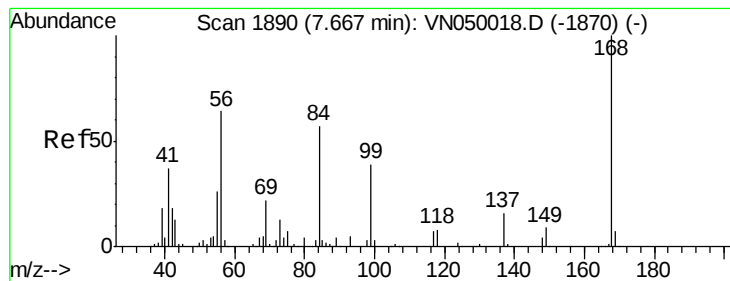
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
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VN0724WBL01

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N072418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 24 06:27:04 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050019.D

Acq: 24 Jul 2018 14:28

Instrument :

MSVOA\_N

ClientSampleId :

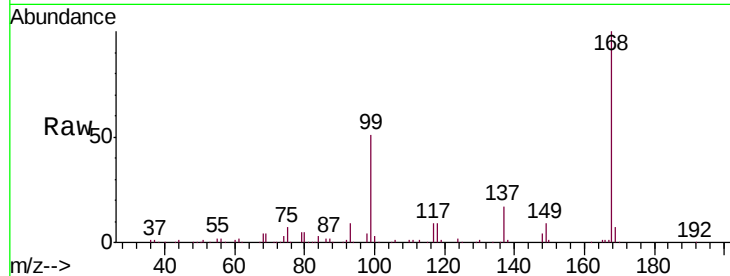
VN0724WBL01

Tot Ion:168 Resp: 631158

Ion Ratio Lower Upper

168 100

99 50.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050018.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050018.D (-1870) (-)

7.67

250000

200000

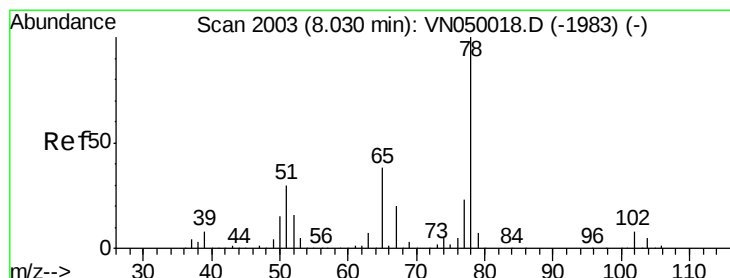
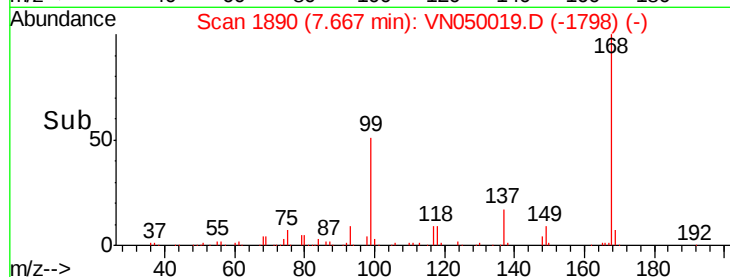
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 57.88 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN050019.D

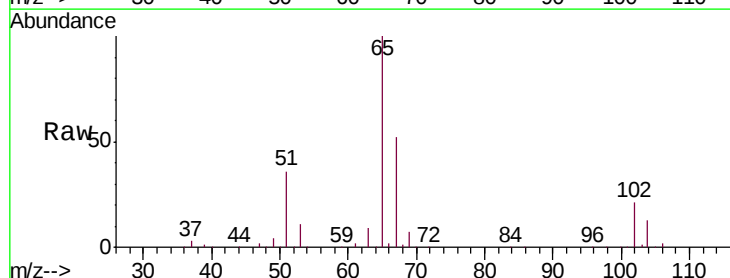
Acq: 24 Jul 2018 14:28

Tgt Ion: 65 Resp: 509727

Ion Ratio Lower Upper

65 100

67 52.4 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN050018.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050018.D (-1983) (-)

8.03

250000

200000

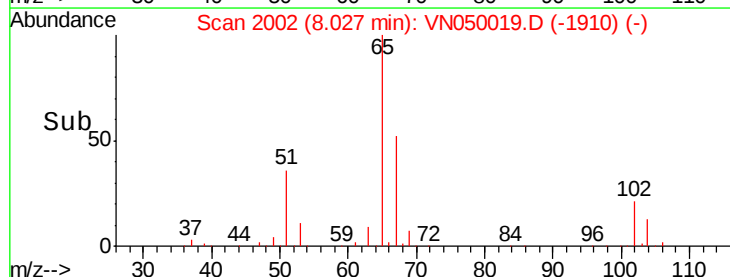
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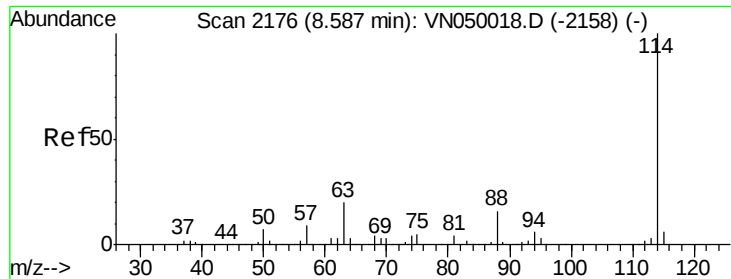
100000

50000

0

Time-->

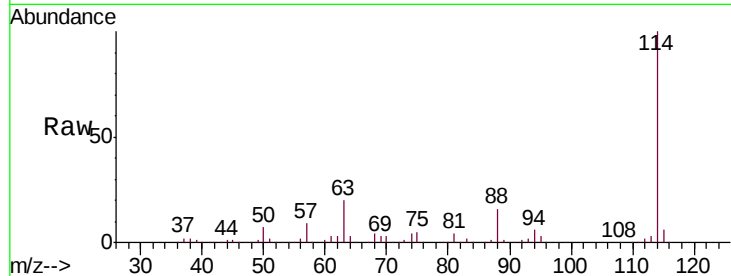




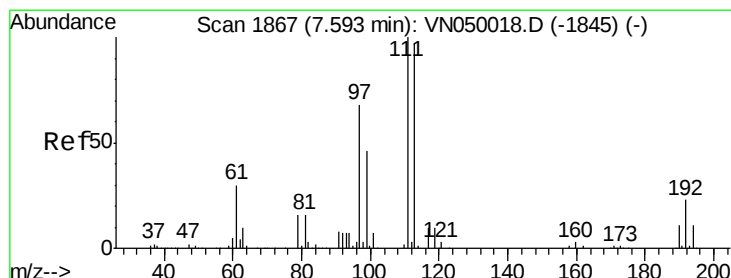
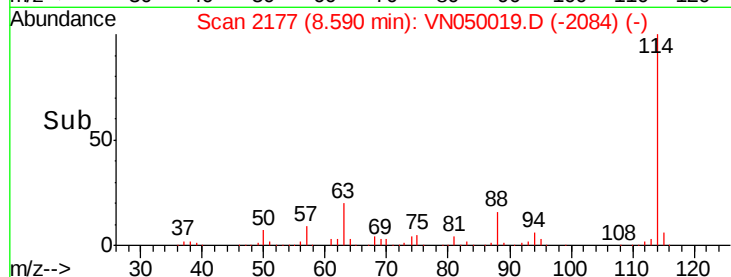
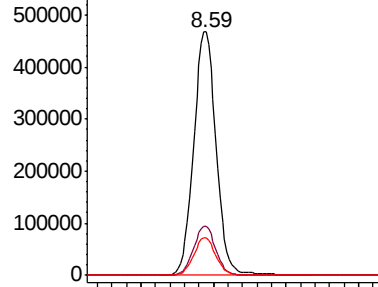
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2177  
 Delta R.T. 0.00 min  
 Lab File: VN050019.D  
 Acq: 24 Jul 2018 14:28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0724WBL01

Tot Ion:114 Resp: 1002816  
 Ion Ratio Lower Upper  
 114 100  
 63 20.0 0.0 40.0  
 88 15.7 0.0 31.2

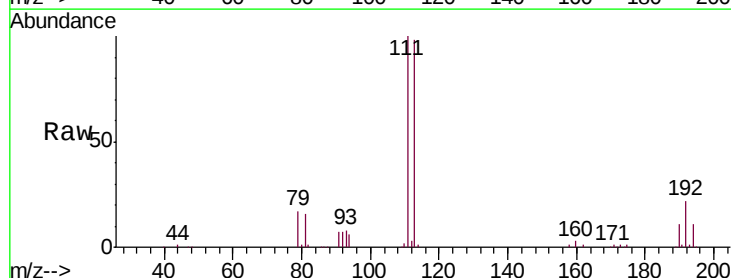


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

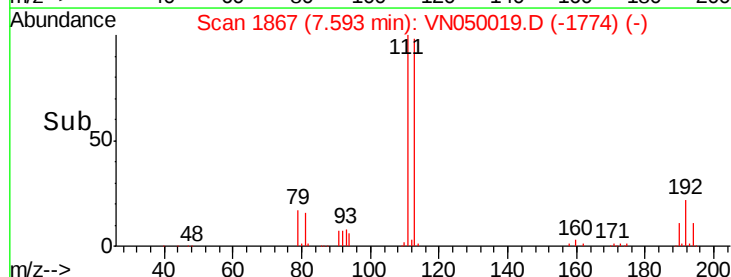
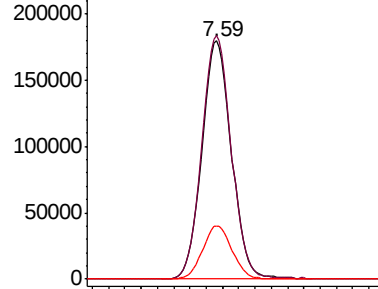


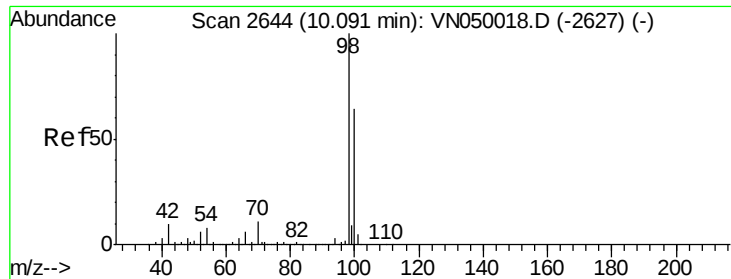
#35  
 Dibromofluoromethane  
 Concen: 55.64 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VN050019.D  
 Acq: 24 Jul 2018 14:28

Tgt Ion:113 Resp: 455589  
 Ion Ratio Lower Upper  
 113 100  
 111 102.1 80.7 121.1  
 192 22.2 17.8 26.6



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

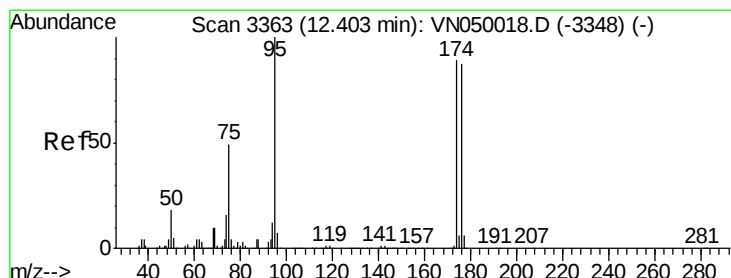
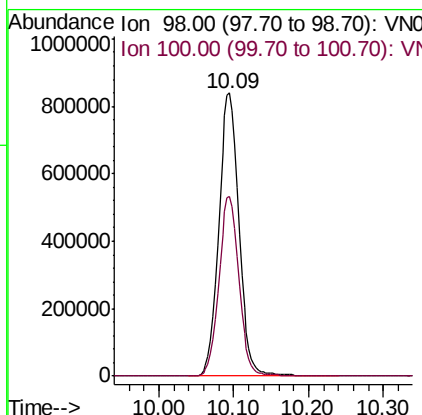
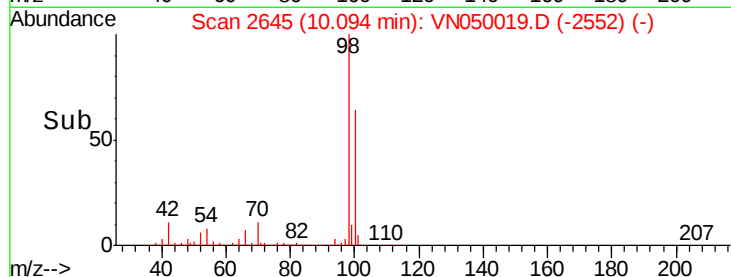
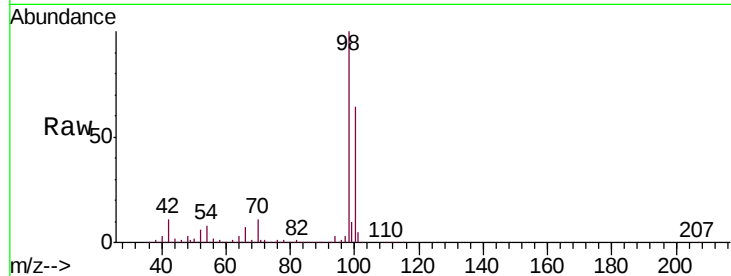




#50  
Toluene-d8  
Concen: 51.99 ug/l  
RT: 10.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VN050019.D  
Acq: 24 Jul 2018 14:28

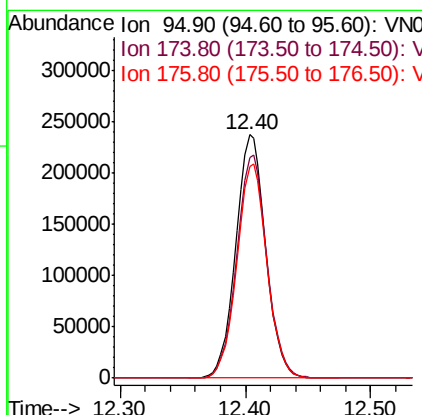
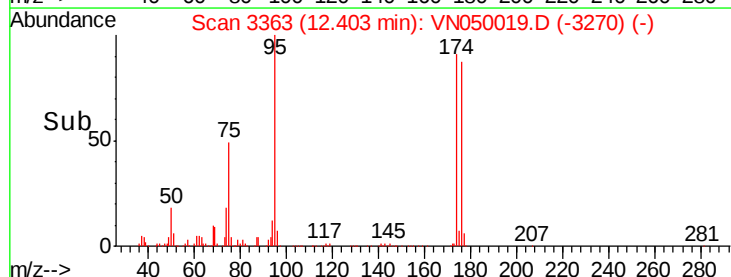
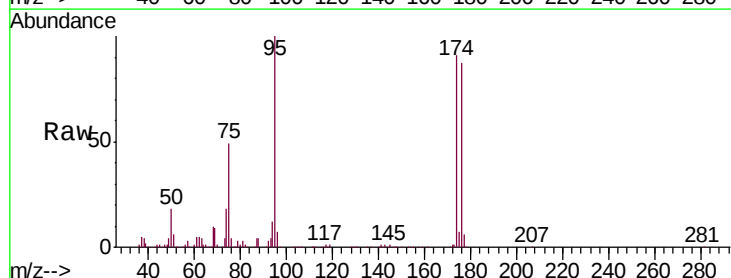
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0724WBL01

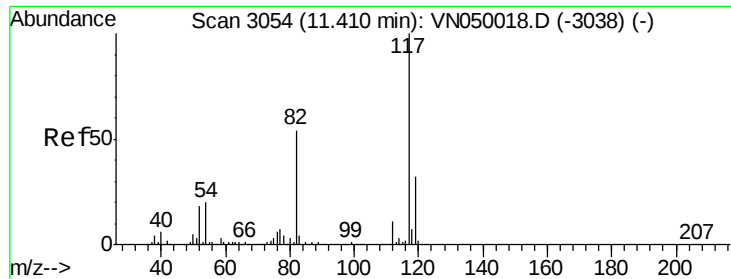
Tot Ion: 98 Resp: 1565040  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.7 76.1



#62  
4-Bromofluorobenzene  
Concen: 39.66 ug/l  
RT: 12.40 min Scan# 3363  
Delta R.T. 0.00 min  
Lab File: VN050019.D  
Acq: 24 Jul 2018 14:28

Tgt Ion: 95 Resp: 393127  
Ion Ratio Lower Upper  
95 100  
174 92.7 0.0 178.2  
176 88.4 0.0 173.4

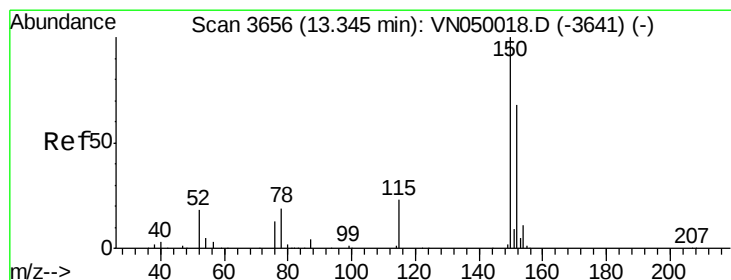
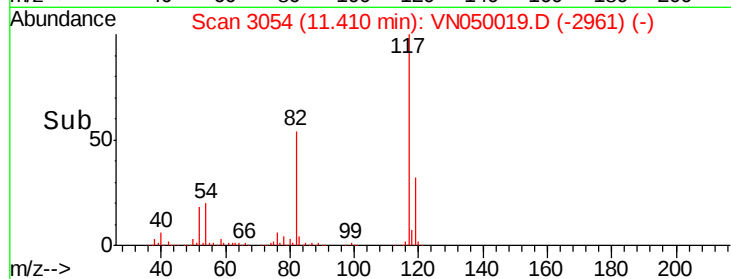
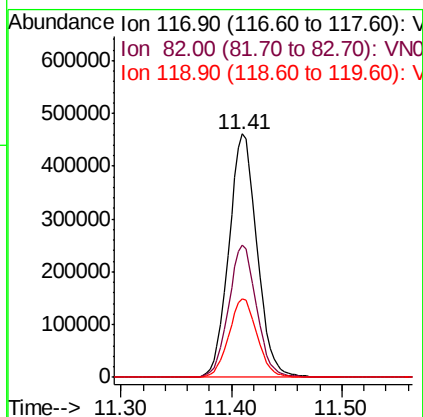
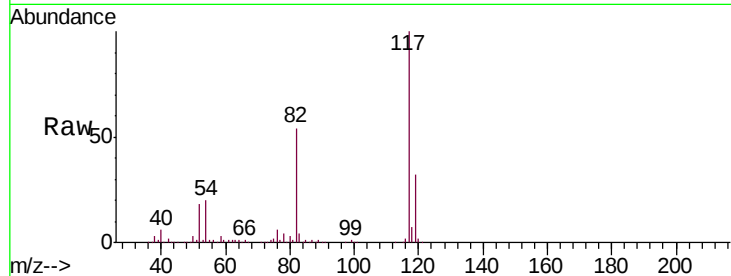




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. 0.00 min  
Lab File: VN050019.D  
Acq: 24 Jul 2018 14:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0724WBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.2  | 43.7  | 65.5  |
| 119     | 32.4  | 26.1  | 39.1  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3657  
Delta R.T. 0.00 min  
Lab File: VN050019.D  
Acq: 24 Jul 2018 14:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.8  | 27.8  | 83.3  |
| 150     | 156.6 | 0.0   | 348.6 |

