

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021120\  
 Data File : VN060054.D  
 Acq On : 11 Feb 2020 10:32  
 Operator : JC/MD  
 Sample : VN0211WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0211WBL01

Quant Time: Feb 12 04:29:36 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011320W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jan 18 03:09:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 192605   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 300954   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 265696   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 109137   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.00   | 65  | 110562   | 51.69 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.38% |      |
| 35) Dibromofluoromethane    | 7.57   | 113 | 91117    | 50.77 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.54% |      |
| 50) Toluene-d8              | 10.08  | 98  | 356056   | 51.20 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.40% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 120410   | 48.03 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.06%  |      |

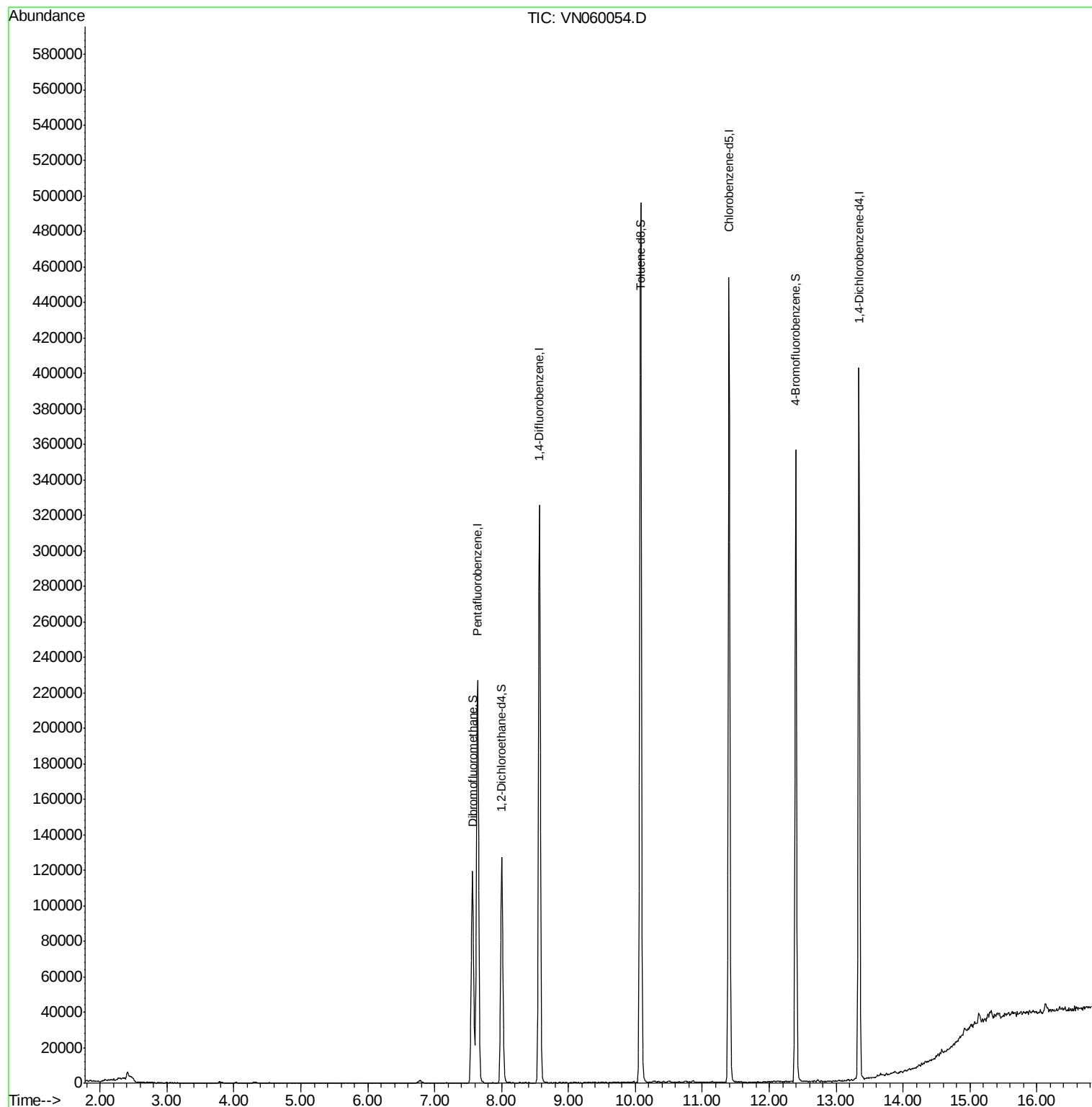
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N011320W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jan 18 03:09:32 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060054.D

Acq: 11 Feb 2020 10:32

Instrument :

MSVOA\_N

ClientSampled :

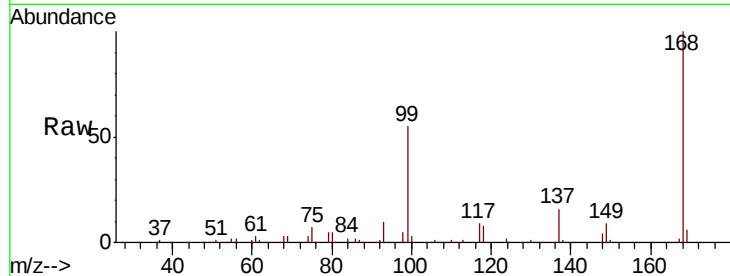
VN0211WBL01

Tot Ion:168 Resp: 192605

Ion Ratio Lower Upper

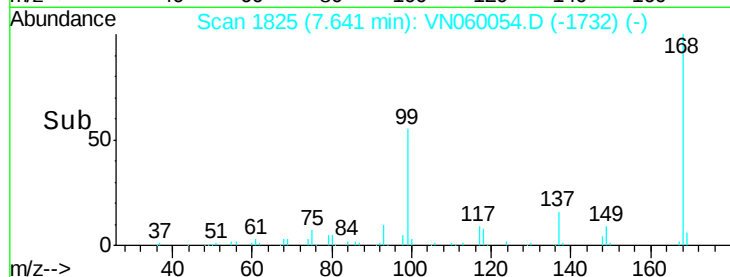
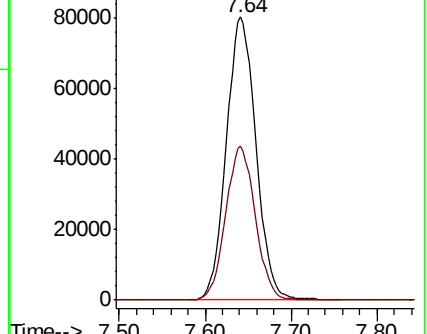
168 100

99 54.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 51.690 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060054.D

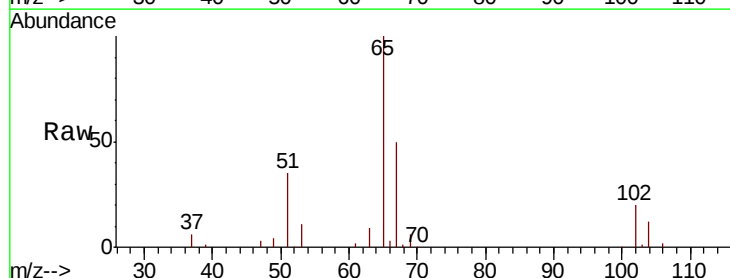
Acq: 11 Feb 2020 10:32

Tgt Ion: 65 Resp: 110562

Ion Ratio Lower Upper

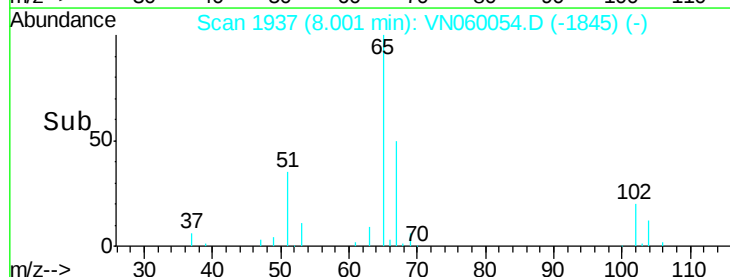
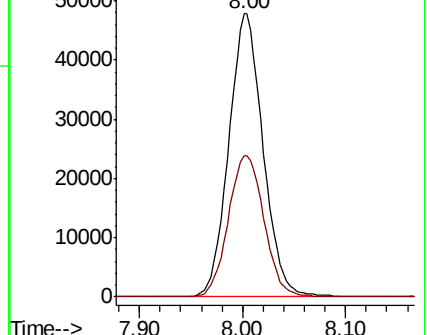
65 100

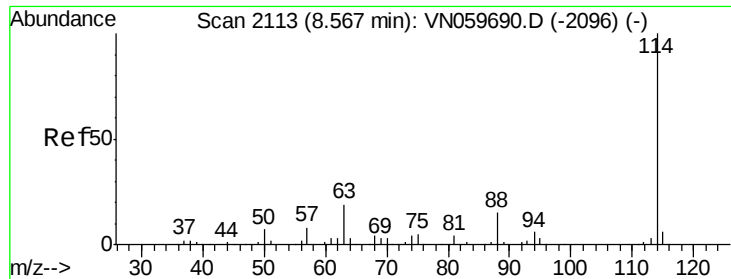
67 51.9 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

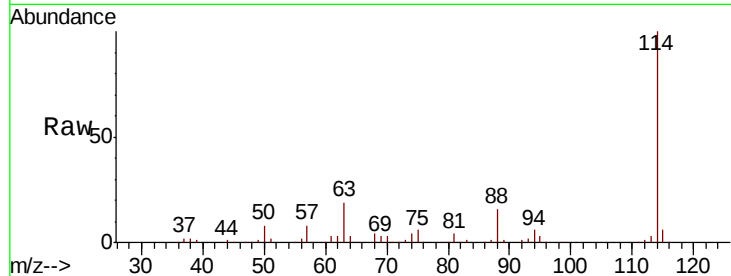




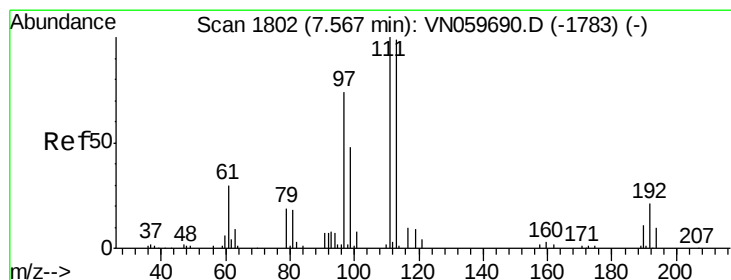
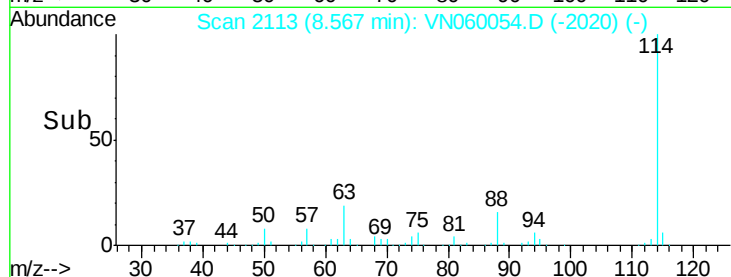
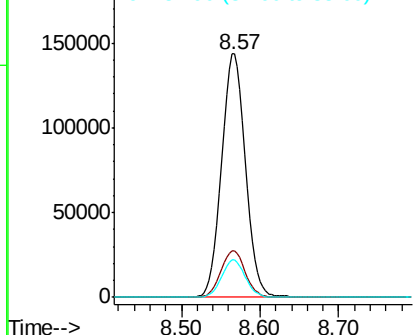
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.57 min Scan# 2113  
Delta R.T. -0.00 min  
Lab File: VN060054.D  
Acq: 11 Feb 2020 10:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0211WBL01

Tot Ion:114 Resp: 300954  
Ion Ratio Lower Upper  
114 100  
63 18.9 0.0 43.6  
88 15.5 0.0 31.4

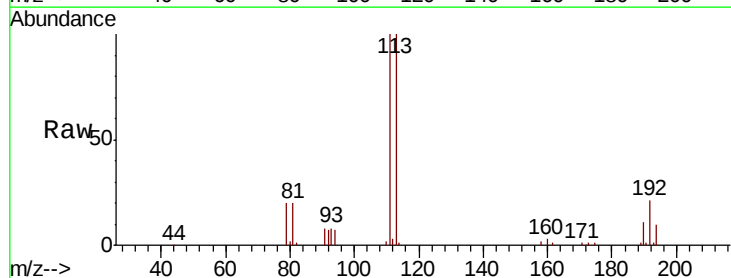


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

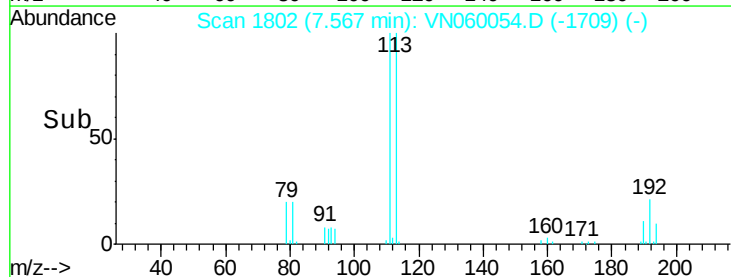
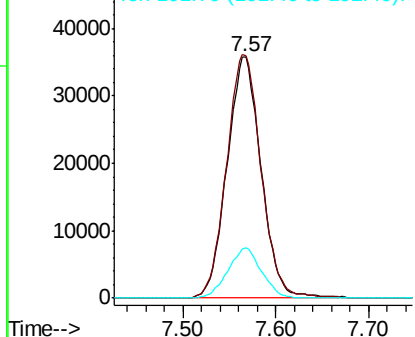


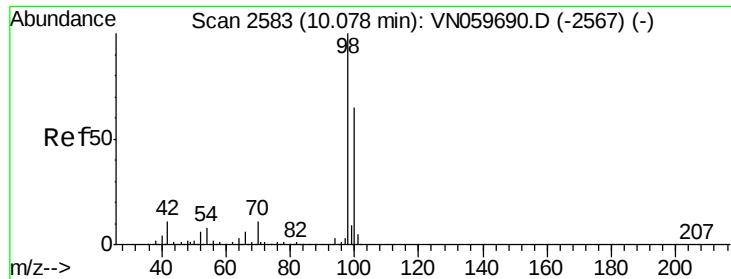
#35  
Dibromofluoromethane  
Concen: 50.769 ug/l  
RT: 7.57 min Scan# 1802  
Delta R.T. -0.00 min  
Lab File: VN060054.D  
Acq: 11 Feb 2020 10:32

Tgt Ion:113 Resp: 91117  
Ion Ratio Lower Upper  
113 100  
111 102.4 83.5 125.3  
192 20.6 15.4 23.2



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: 51.204 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060054.D

Acq: 11 Feb 2020 10:32

Instrument :

MSVOA\_N

ClientSampleId :

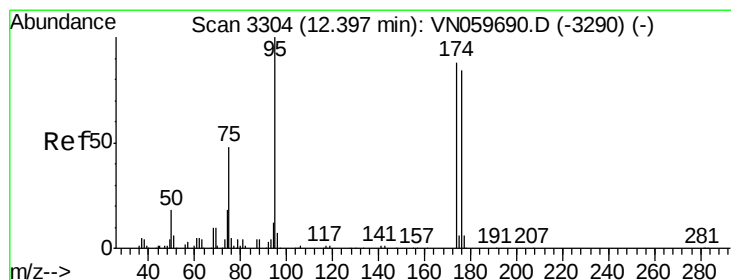
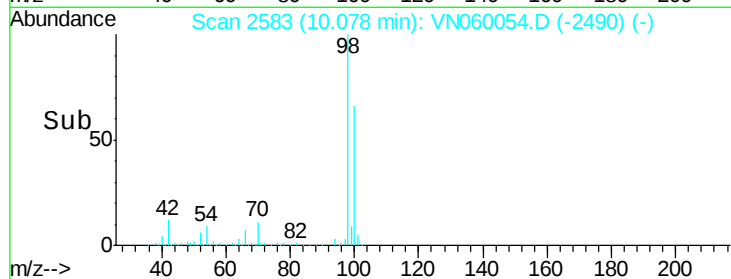
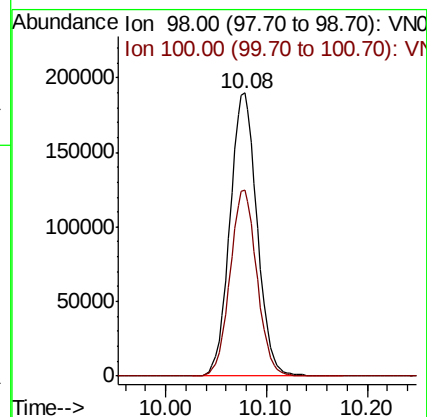
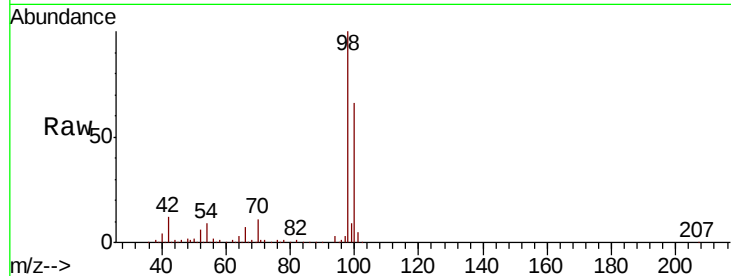
VN0211WBL01

Tot Ion: 98 Resp: 356056

Ion Ratio Lower Upper

98 100

100 65.1 51.2 76.8



#62

4-Bromofluorobenzene

Concen: 48.034 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060054.D

Acq: 11 Feb 2020 10:32

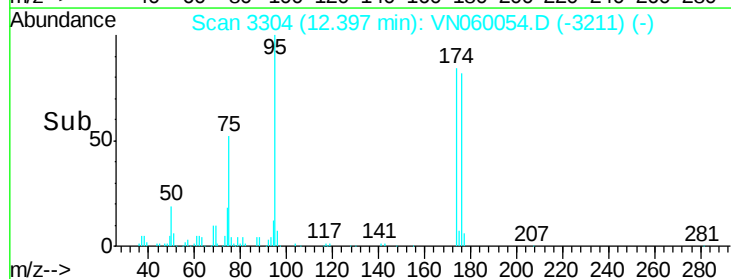
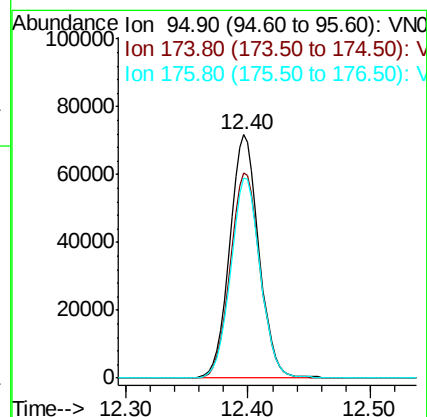
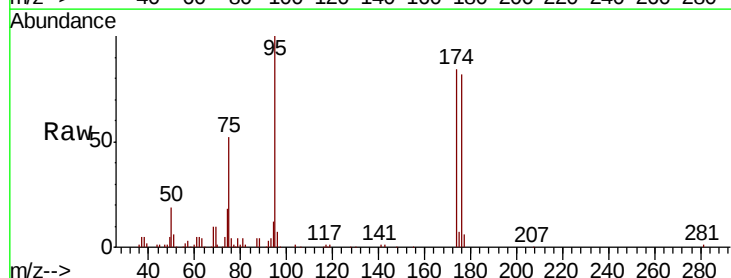
Tgt Ion: 95 Resp: 120410

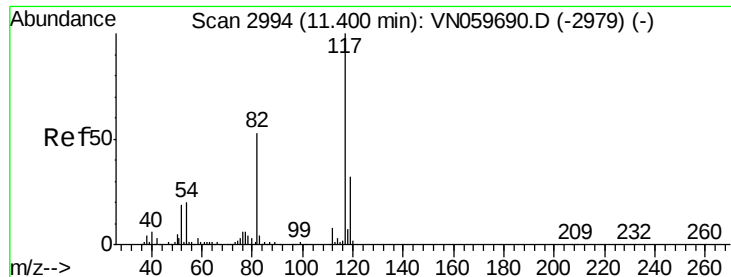
Ion Ratio Lower Upper

95 100

174 85.9 0.0 151.4

176 83.1 0.0 146.0

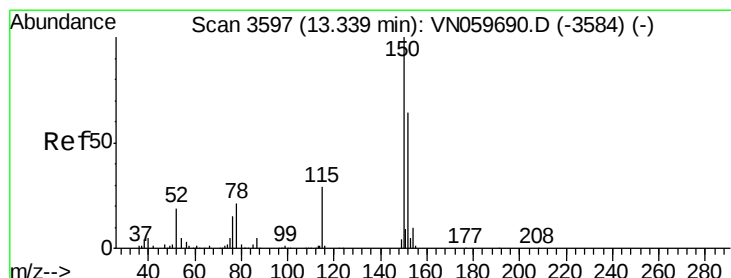
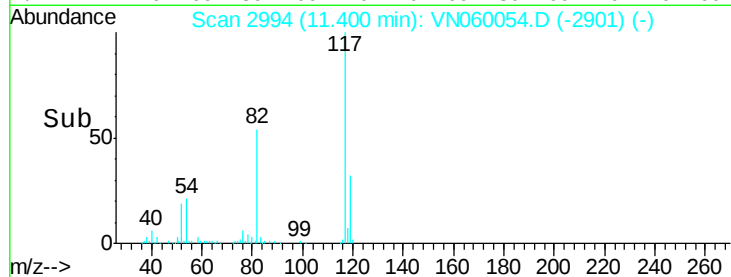
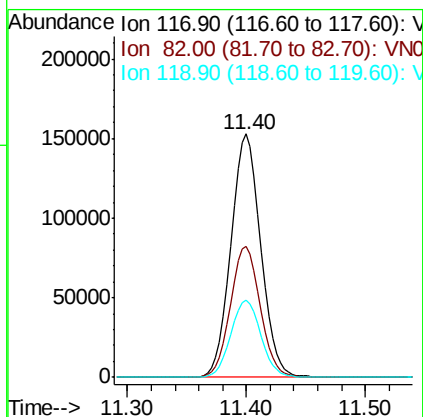
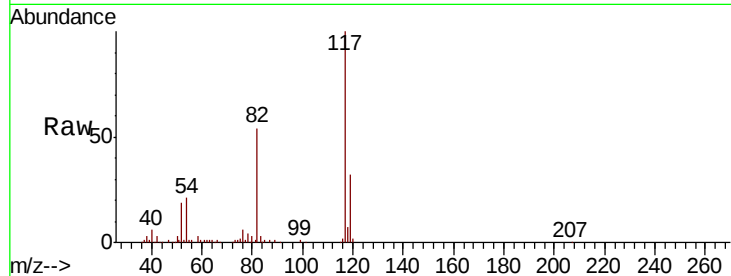




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. -0.00 min  
Lab File: VN060054.D  
Acq: 11 Feb 2020 10:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0211WBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.8  | 45.9  | 68.9  |
| 119     | 31.6  | 25.5  | 38.3  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. 0.00 min  
Lab File: VN060054.D  
Acq: 11 Feb 2020 10:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.8  | 30.3  | 90.9  |
| 150     | 157.0 | 0.0   | 345.2 |

