

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111319\  
 Data File : VN059207.D  
 Acq On : 13 Nov 2019 9:44  
 Operator : JC/SP  
 Sample : VN1113WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1113WBL01

Quant Time: Nov 14 06:24:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 07 04:00:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 409975   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.56  | 114  | 643402   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 554565   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 203260   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.00   | 65  | 266461   | 52.87 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.74% |      |
| 35) Dibromofluoromethane    | 7.57   | 113 | 204067   | 53.12 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.24% |      |
| 50) Toluene-d8              | 10.08  | 98  | 783019   | 51.74 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.48% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 244137   | 44.75 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.50%  |      |

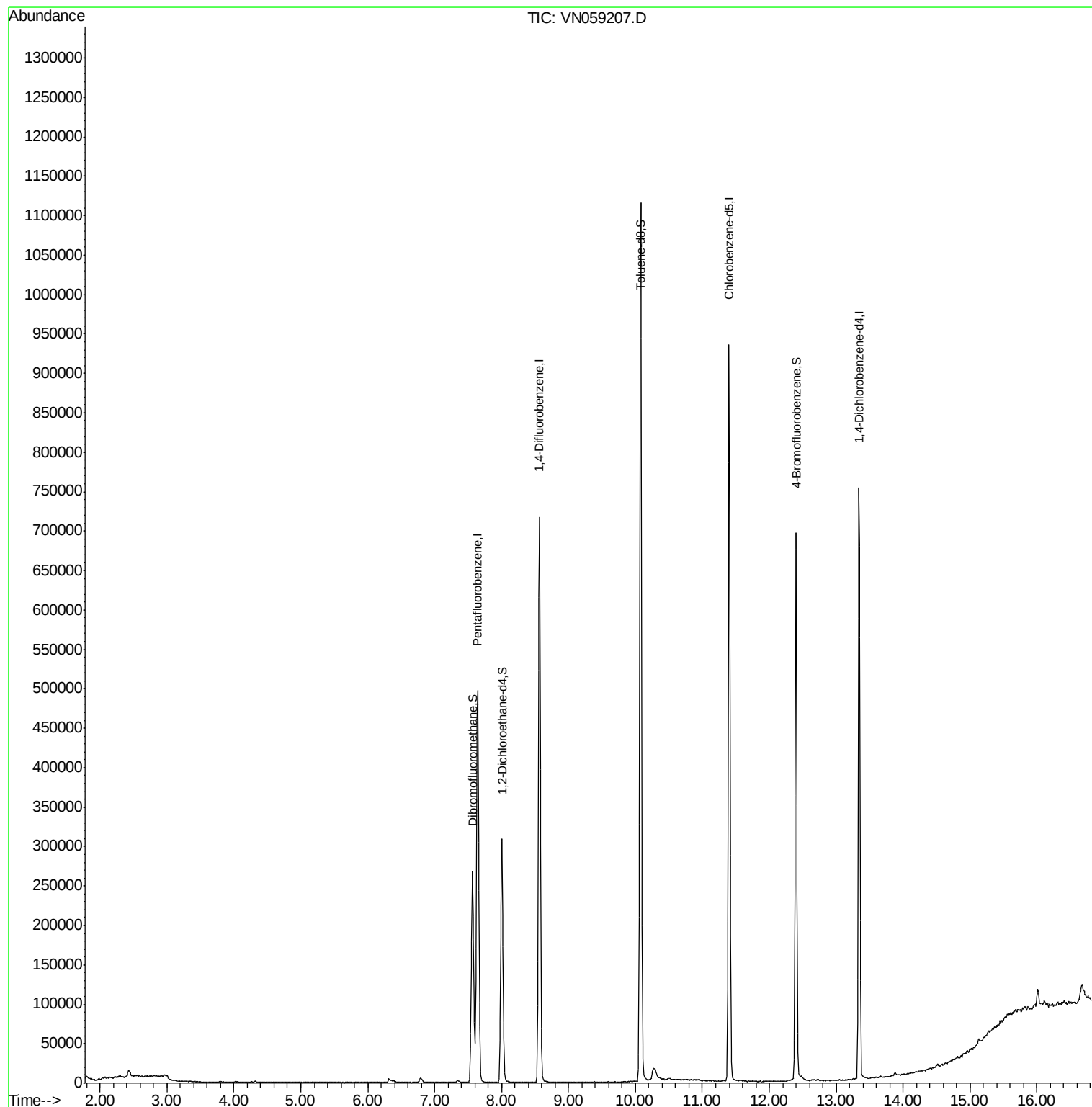
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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Quant Title : SW846 8260  
QLast Update : Thu Nov 07 04:00:41 2019  
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: VN059207.D

Acq: 13 Nov 2019 9:44

Instrument :

MSVOA\_N

ClientSampleId :

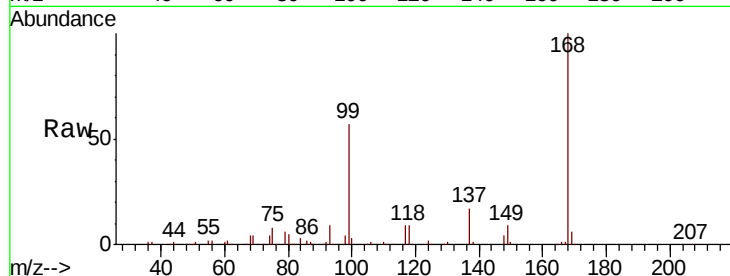
VN1113WBL01

Tot Ion:168 Resp: 409975

Ion Ratio Lower Upper

168 100

99 56.7 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

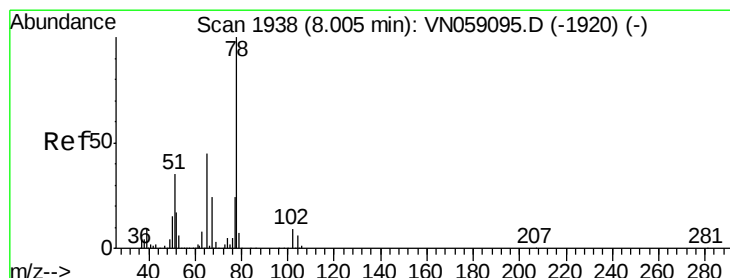
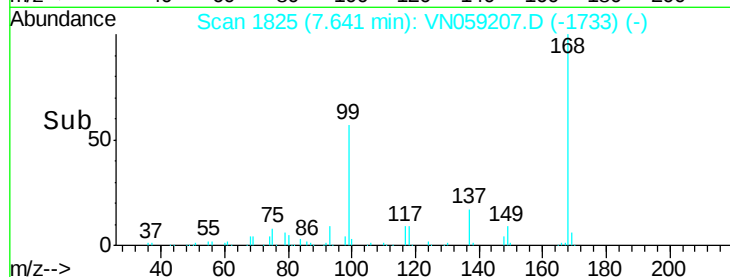
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#33

1,2-Dichloroethane-d4

Concen: 52.873 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN059207.D

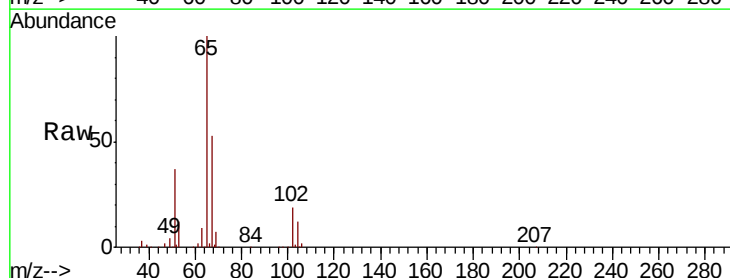
Acq: 13 Nov 2019 9:44

Tgt Ion: 65 Resp: 266461

Ion Ratio Lower Upper

65 100

67 53.3 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VN

Ion 66.90 (66.60 to 67.60): VN

8.00

120000

100000

80000

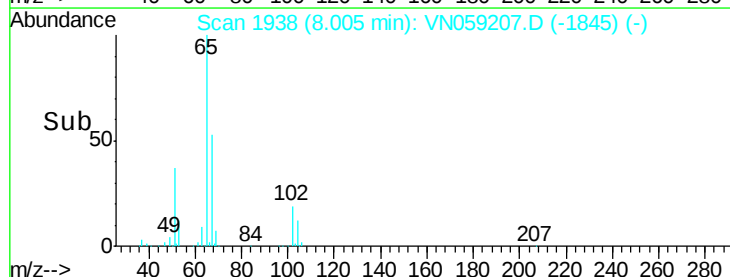
60000

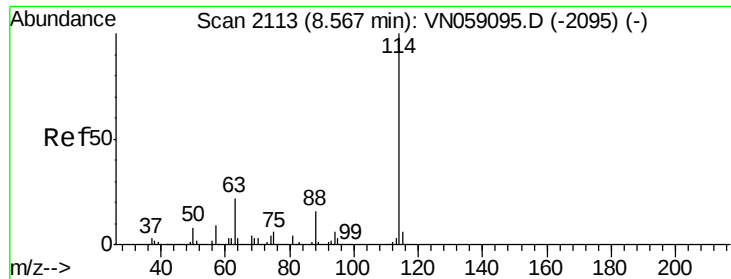
40000

20000

0

Time--> 7.90 8.00 8.10

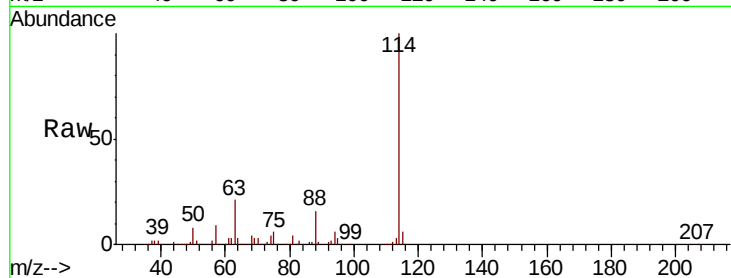




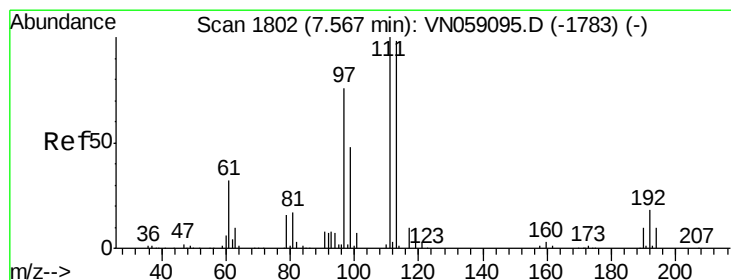
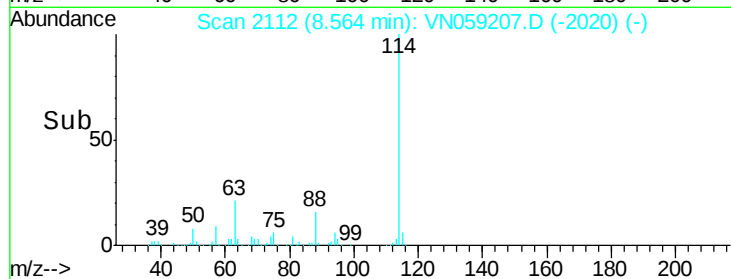
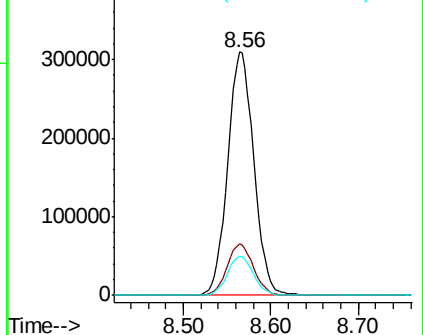
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.56 min Scan# 2112  
 Delta R.T. -0.00 min  
 Lab File: VN059207.D  
 Acq: 13 Nov 2019 9:44

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1113WBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.0  | 0.0   | 43.4  |
| 88      | 15.9  | 0.0   | 32.2  |

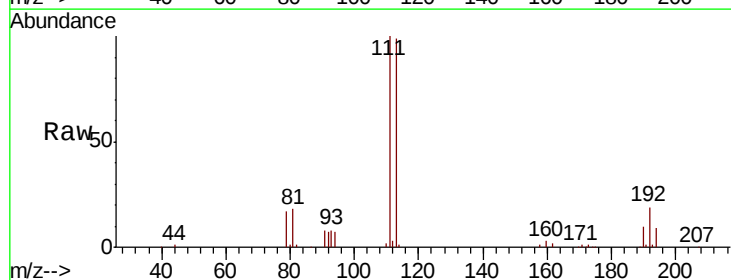


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

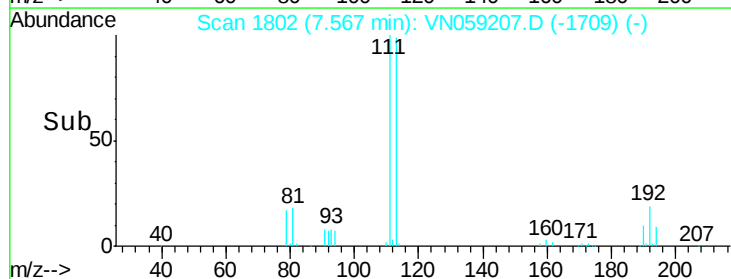
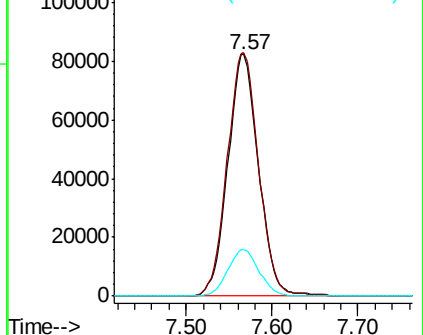


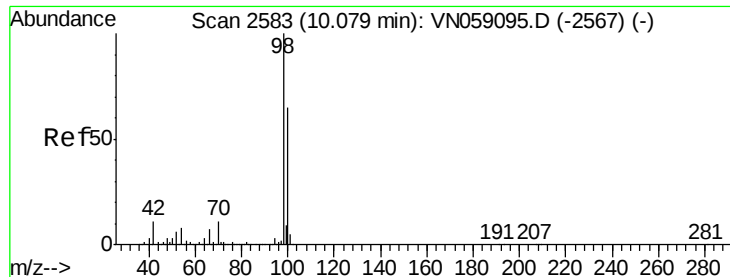
#35  
 Dibromofluoromethane  
 Concen: 53.118 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. -0.00 min  
 Lab File: VN059207.D  
 Acq: 13 Nov 2019 9:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.2 | 82.8  | 124.2 |
| 192     | 19.7  | 16.1  | 24.1  |



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: 51.745 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059207.D

Acq: 13 Nov 2019 9:44

Instrument :

MSVOA\_N

ClientSampleId :

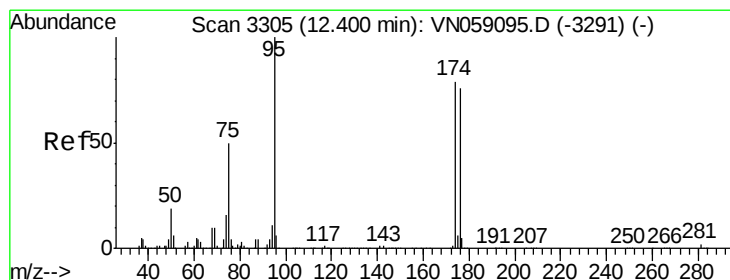
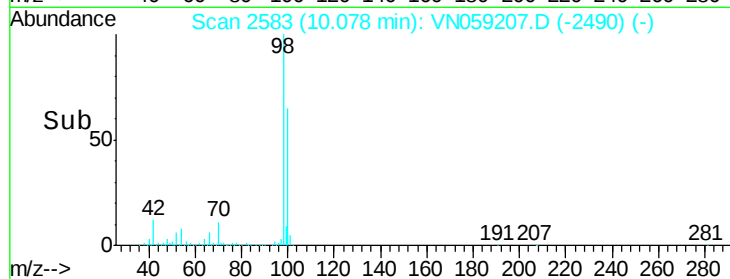
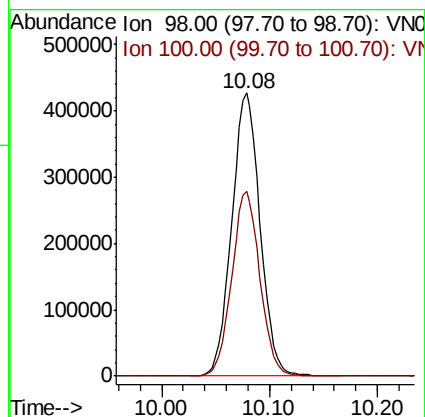
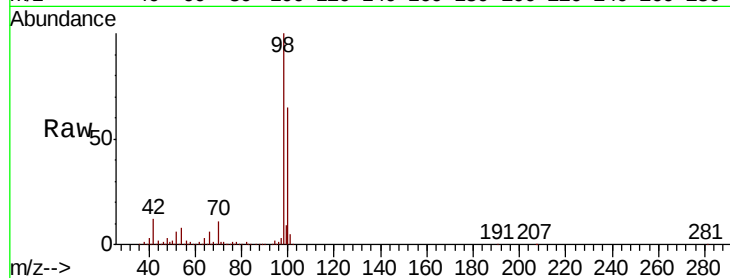
VN1113WBL01

Tot Ion: 98 Resp: 783019

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 44.746 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059207.D

Acq: 13 Nov 2019 9:44

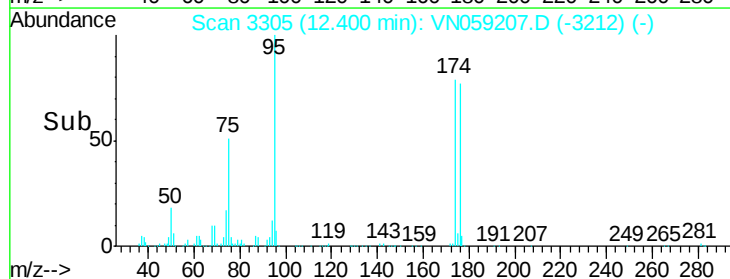
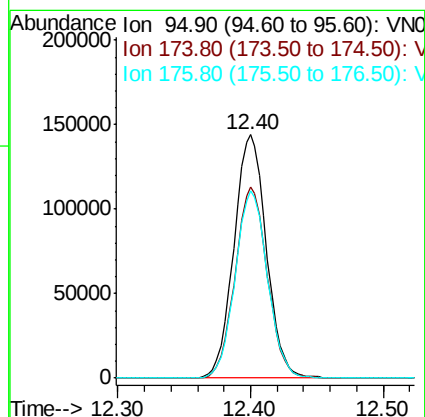
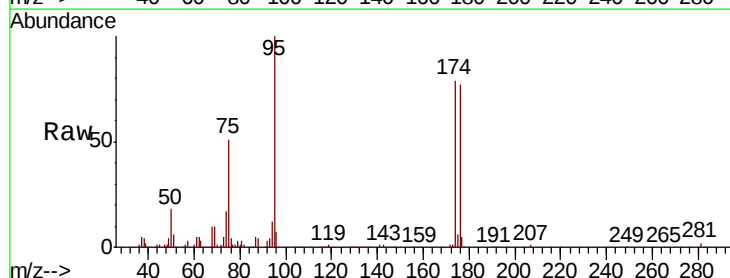
Tgt Ion: 95 Resp: 244137

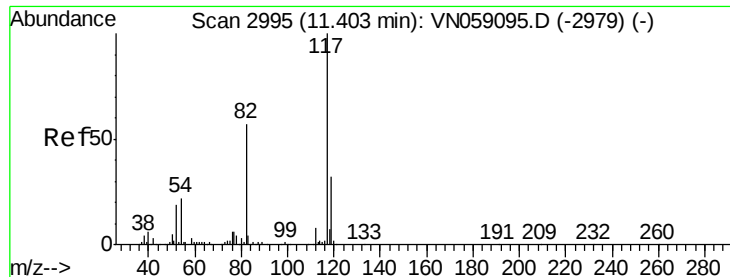
Ion Ratio Lower Upper

95 100

174 78.3 0.0 158.2

176 76.8 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN059207.D

Acq: 13 Nov 2019 9:44

Instrument :

MSVOA\_N

ClientSampleId :

VN1113WBL01

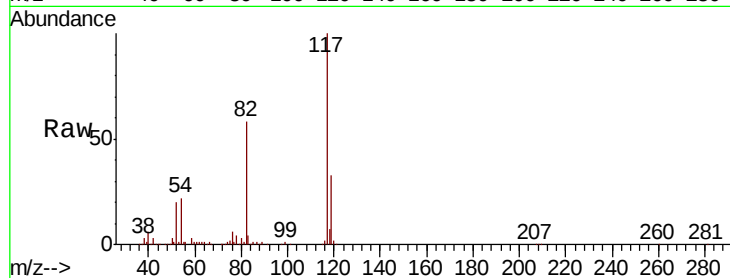
Tot Ion:117 Resp: 554565

Ion Ratio Lower Upper

117 100

82 58.3 45.8 68.8

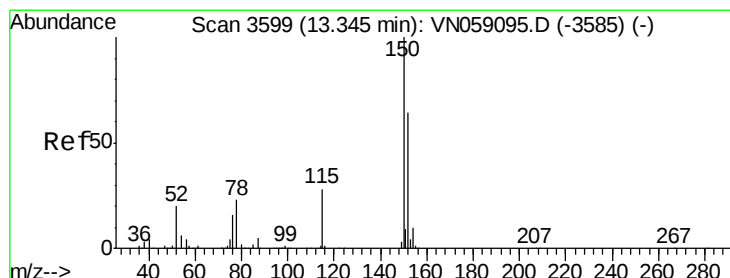
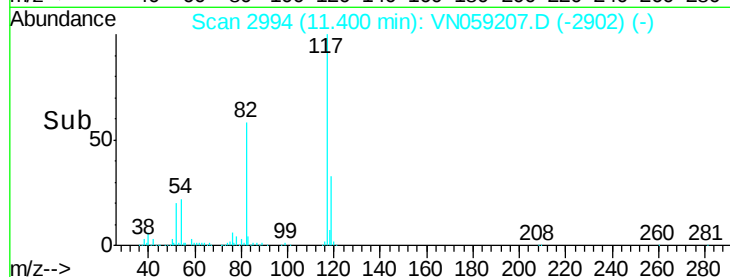
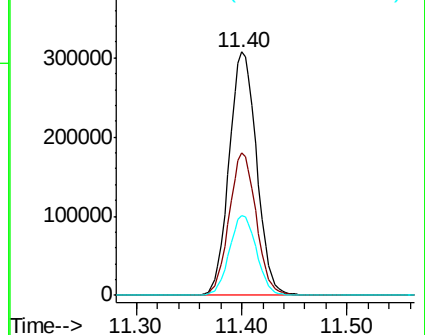
119 32.9 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

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: VN059207.D

Acq: 13 Nov 2019 9:44

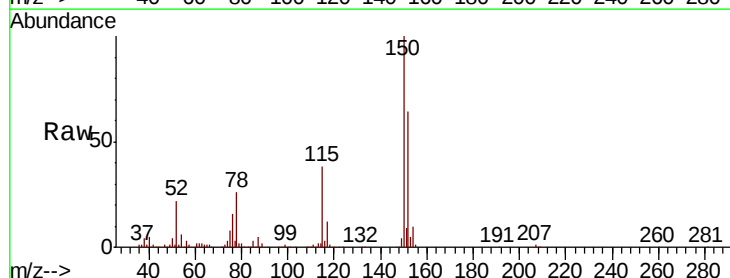
Tgt Ion:152 Resp: 203260

Ion Ratio Lower Upper

152 100

115 59.9 29.4 88.2

150 156.9 0.0 345.8



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

