

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031619\  
 Data File : VN054337.D  
 Acq On : 16 Mar 2019 15:23  
 Operator : JC/SP  
 Sample : K1960-19  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB-031419-01

Quant Time: Mar 18 05:51:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031219W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 13 03:33:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 1831086  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 2678537  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 2207674  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 778620   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 913664   | 46.98 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 93.96% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 818502   | 47.38 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 94.76% |          |
| 50) Toluene-d8              | 10.09 | 98   | 3075080  | 48.20 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.40% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 892101   | 39.96 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 79.92% |          |

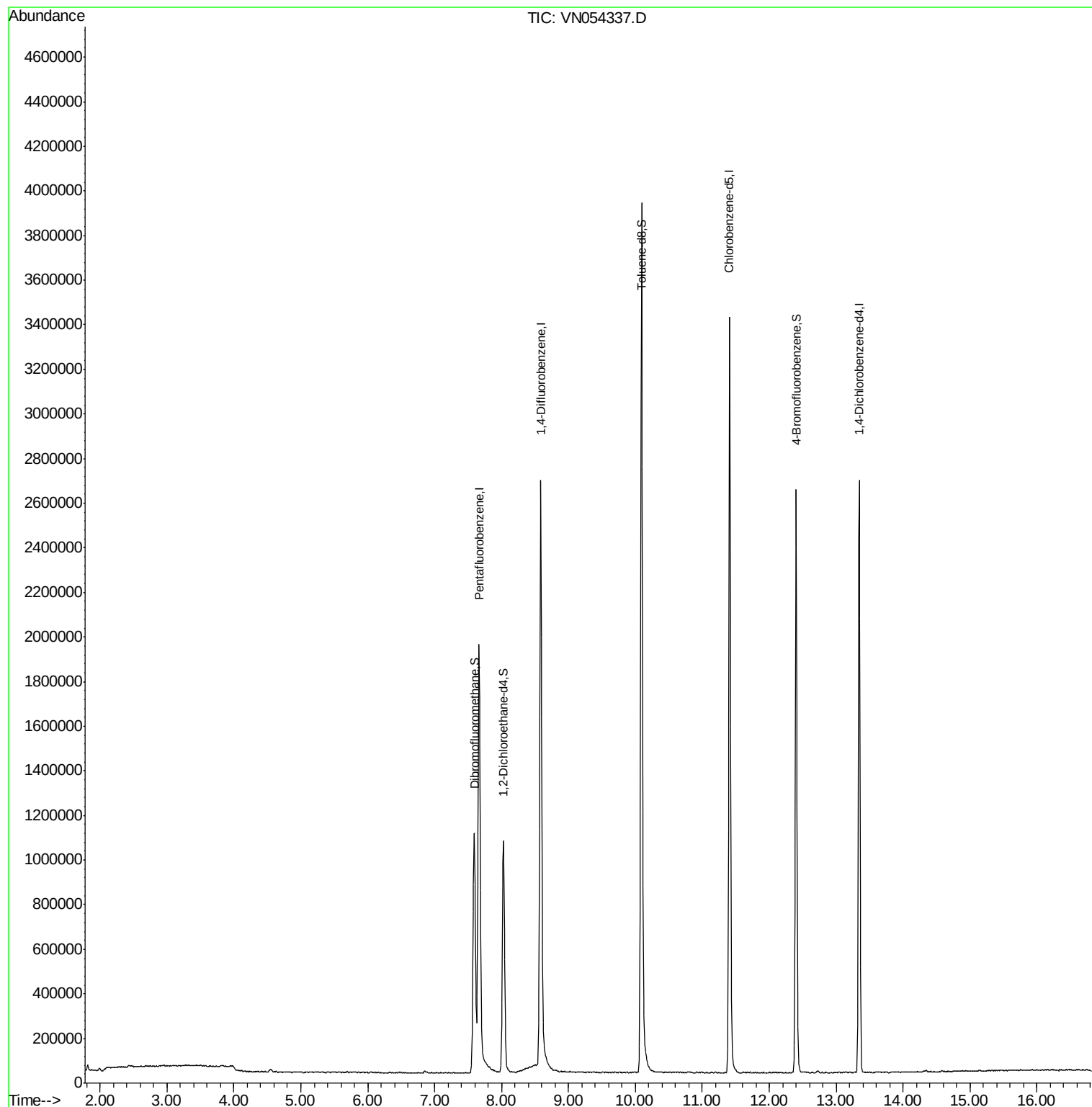
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

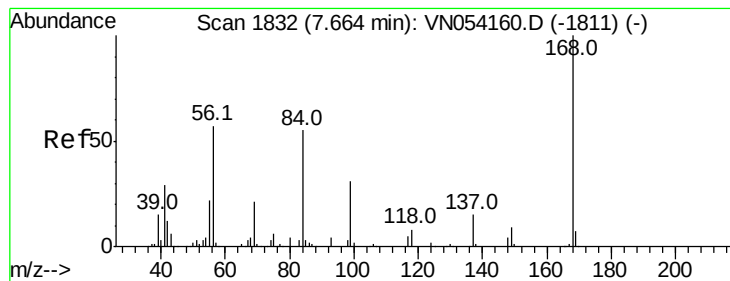
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Mar 13 03:33:31 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

Instrument :

MSVOA\_N

ClientSampleId :

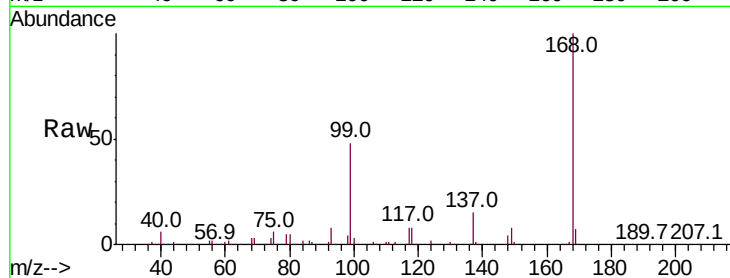
TB-031419-01

Tot Ion:168 Resp: 1831086

Ion Ratio Lower Upper

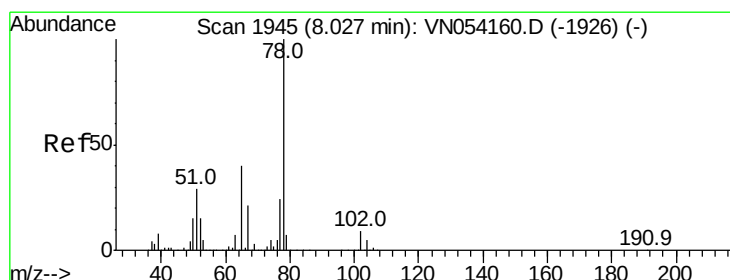
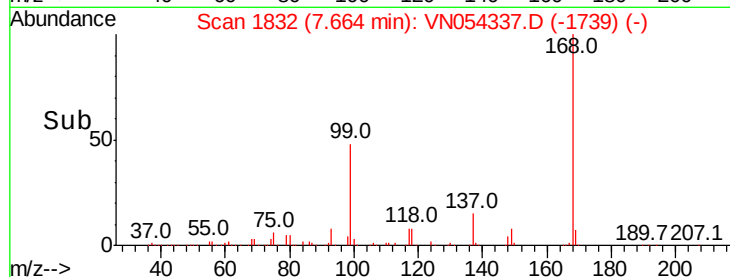
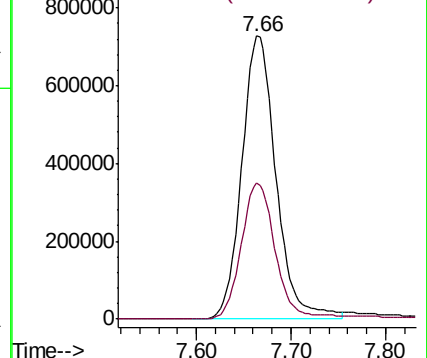
168 100

99 48.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#33

1,2-Dichloroethane-d4

Concen: 46.984 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054337.D

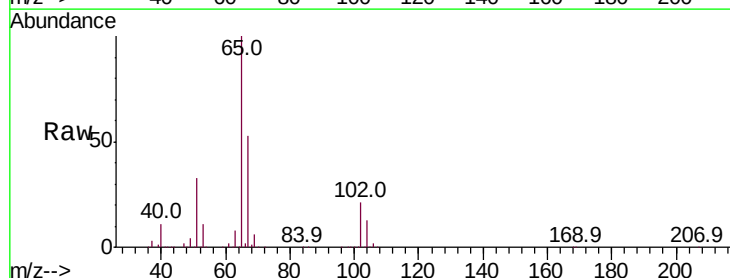
Acq: 16 Mar 2019 15:23

Tgt Ion: 65 Resp: 913664

Ion Ratio Lower Upper

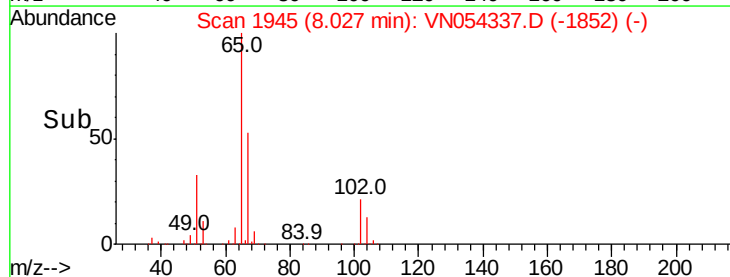
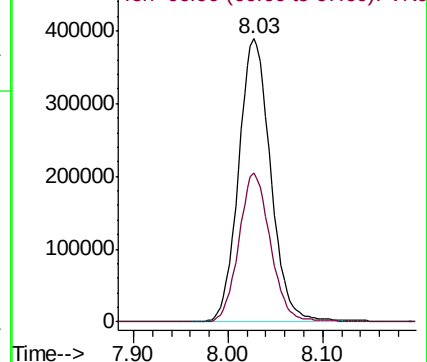
65 100

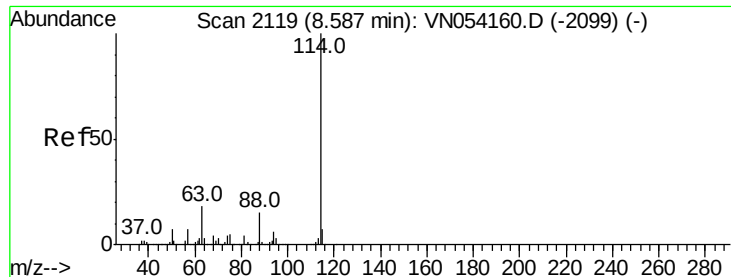
67 52.1 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO



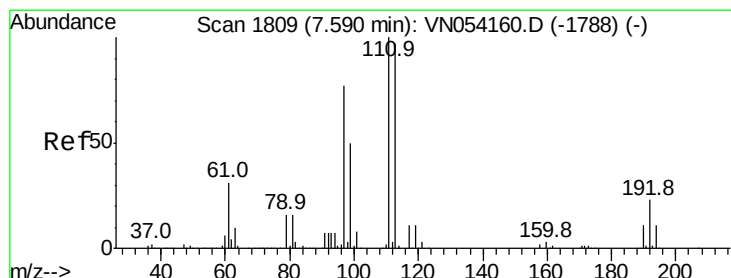
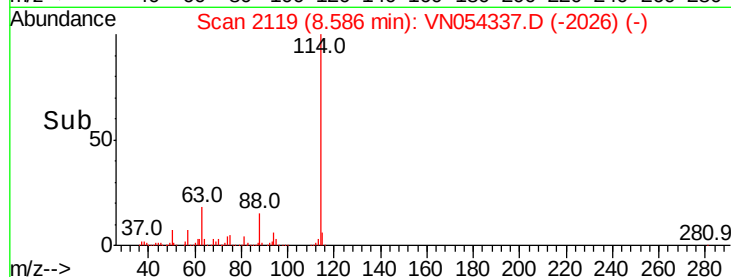
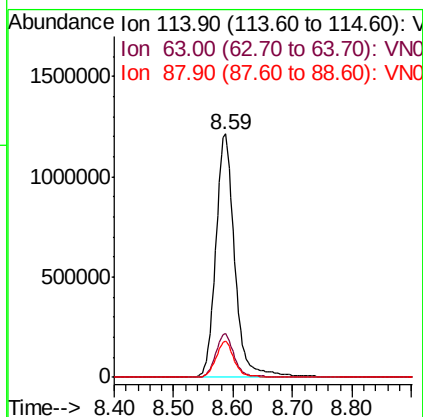
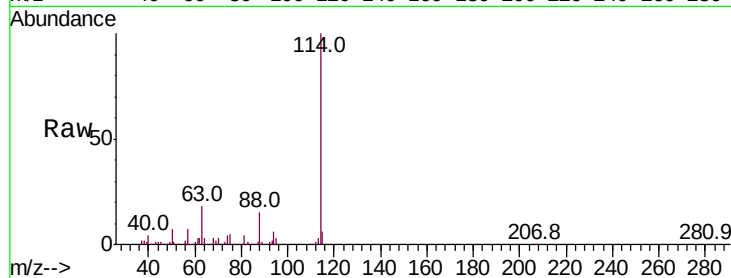


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN054337.D  
 Acq: 16 Mar 2019 15:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB-031419-01

Tot Ion:114 Resp: 2678537  

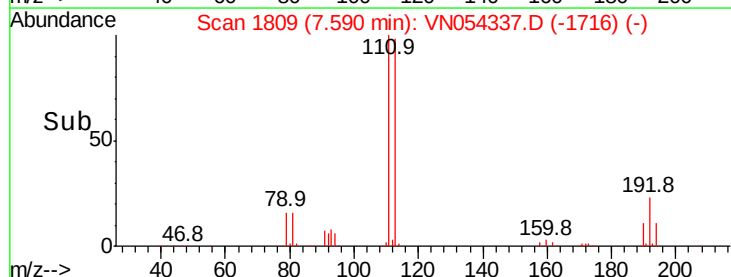
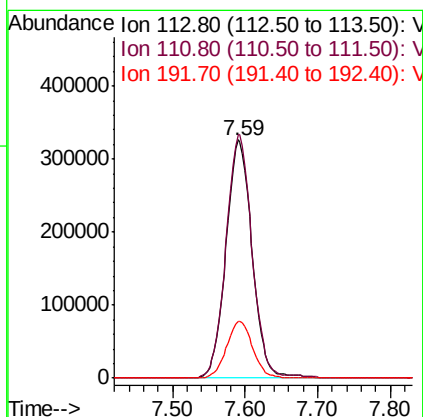
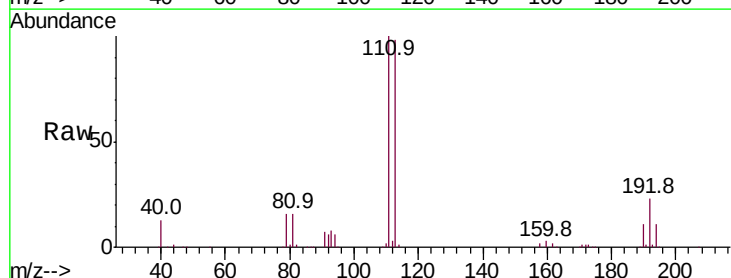
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 17.8  | 0.0   | 35.2  |
| 88  | 14.9  | 0.0   | 30.2  |

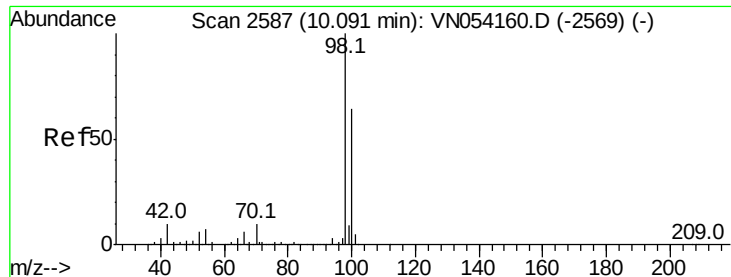


#35  
 Dibromofluoromethane  
 Concen: 47.379 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. -0.00 min  
 Lab File: VN054337.D  
 Acq: 16 Mar 2019 15:23

Tgt Ion:113 Resp: 818502  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 102.3 | 82.2  | 123.4 |
| 192 | 23.9  | 19.2  | 28.8  |





#50

Toluene-d8

Concen: 48.198 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

Instrument :

MSVOA\_N

ClientSampleId :

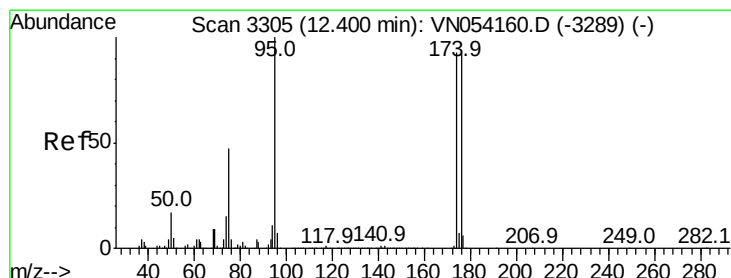
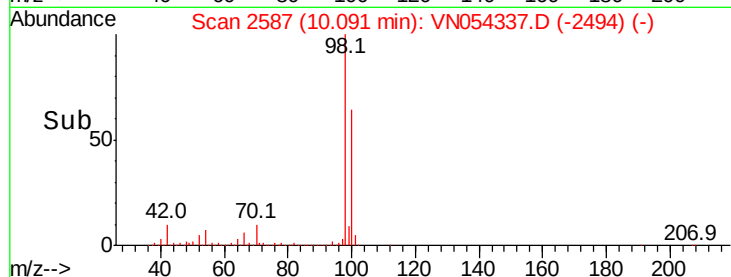
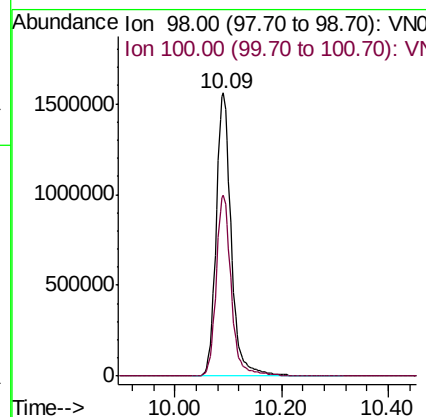
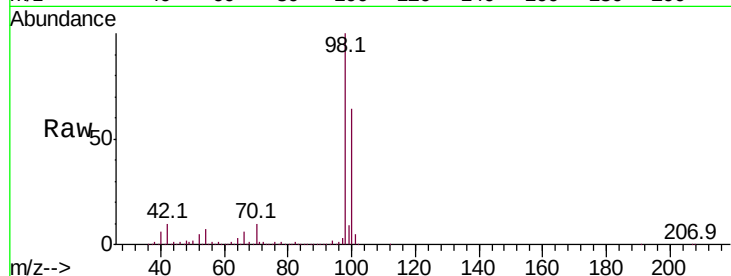
TB-031419-01

Tot Ion: 98 Resp: 3075080

Ion Ratio Lower Upper

98 100

100 64.1 51.2 76.8



#62

4-Bromofluorobenzene

Concen: 39.962 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

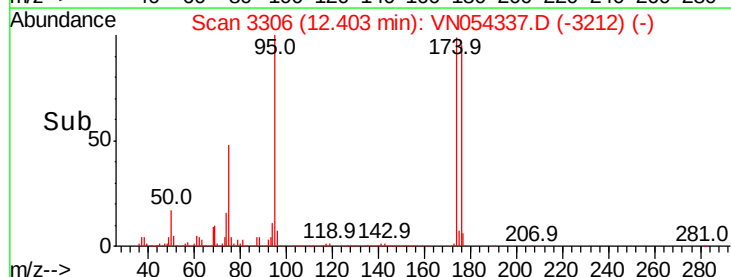
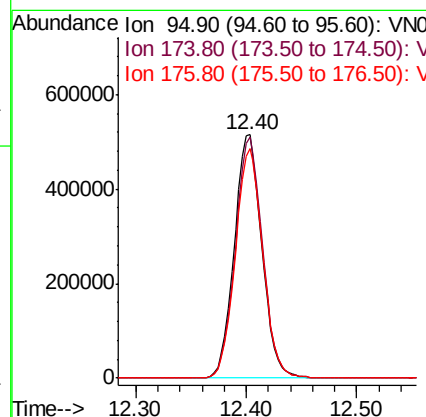
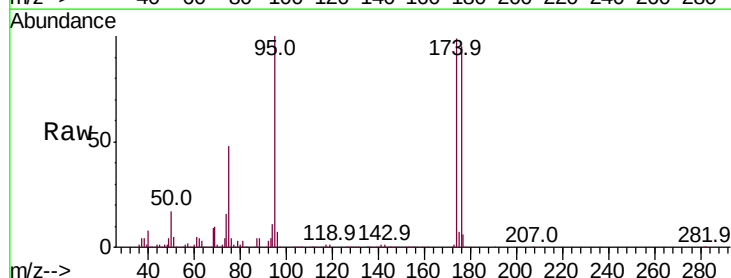
Tgt Ion: 95 Resp: 892101

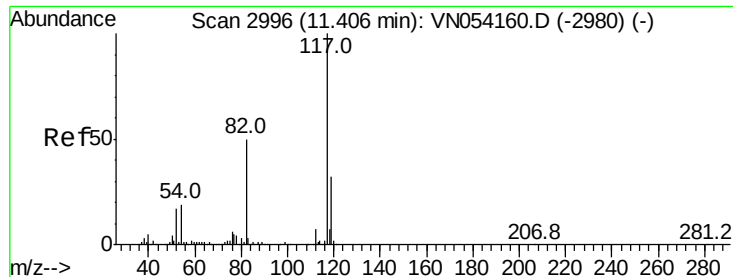
Ion Ratio Lower Upper

95 100

174 97.9 0.0 191.0

176 94.0 0.0 187.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

Instrument :

MSVOA\_N

ClientSampleId :

TB-031419-01

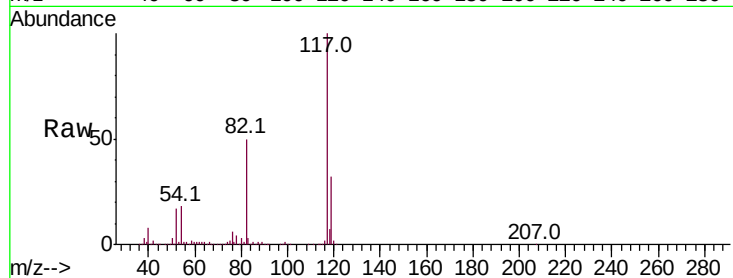
Tot Ion:117 Resp: 2207674

Ion Ratio Lower Upper

117 100

82 50.1 40.0 60.0

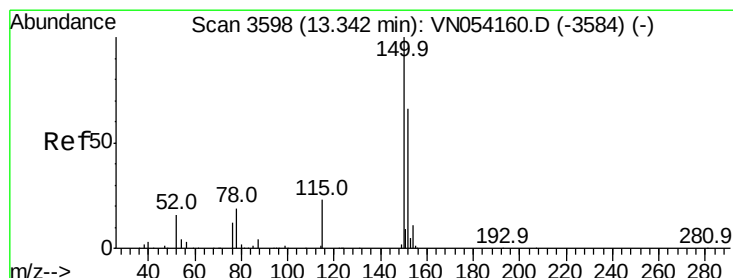
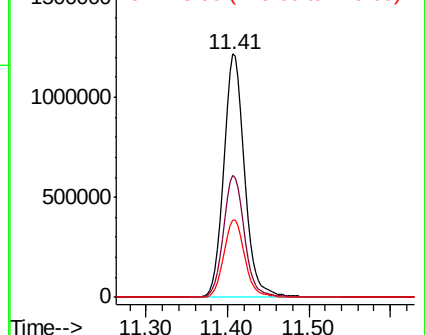
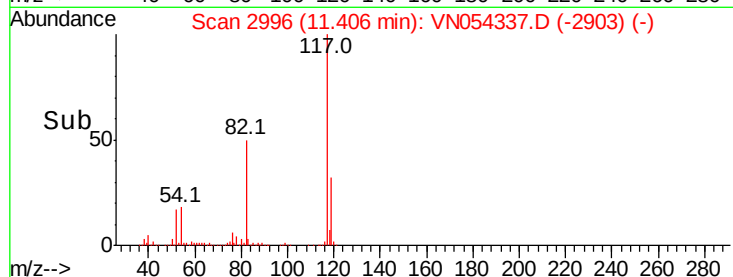
119 31.8 25.8 38.6



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: VN054337.D

Acq: 16 Mar 2019 15:23

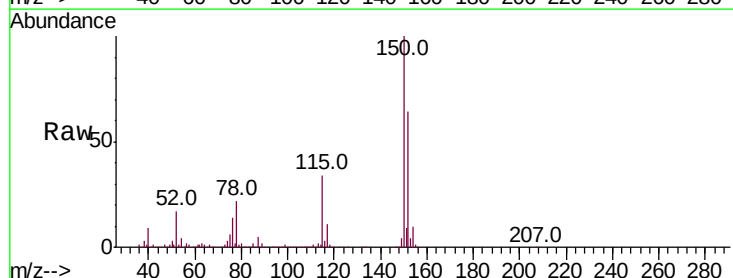
Tgt Ion:152 Resp: 778620

Ion Ratio Lower Upper

152 100

115 54.4 27.2 81.6

150 156.8 0.0 349.2



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

