

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050520\  
 Data File : VN061291.D  
 Acq On : 5 May 2020 14:55  
 Operator : JC/MD  
 Sample : L2462-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB-4-30-20

Quant Time: May 06 05:43:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 05 07:01:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 94473    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 169827   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 158758   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 67834    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 76699    | 51.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 102.62% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 49030    | 48.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 97.64%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 208446   | 50.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 101.84% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 76156    | 49.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 98.86%  |          |

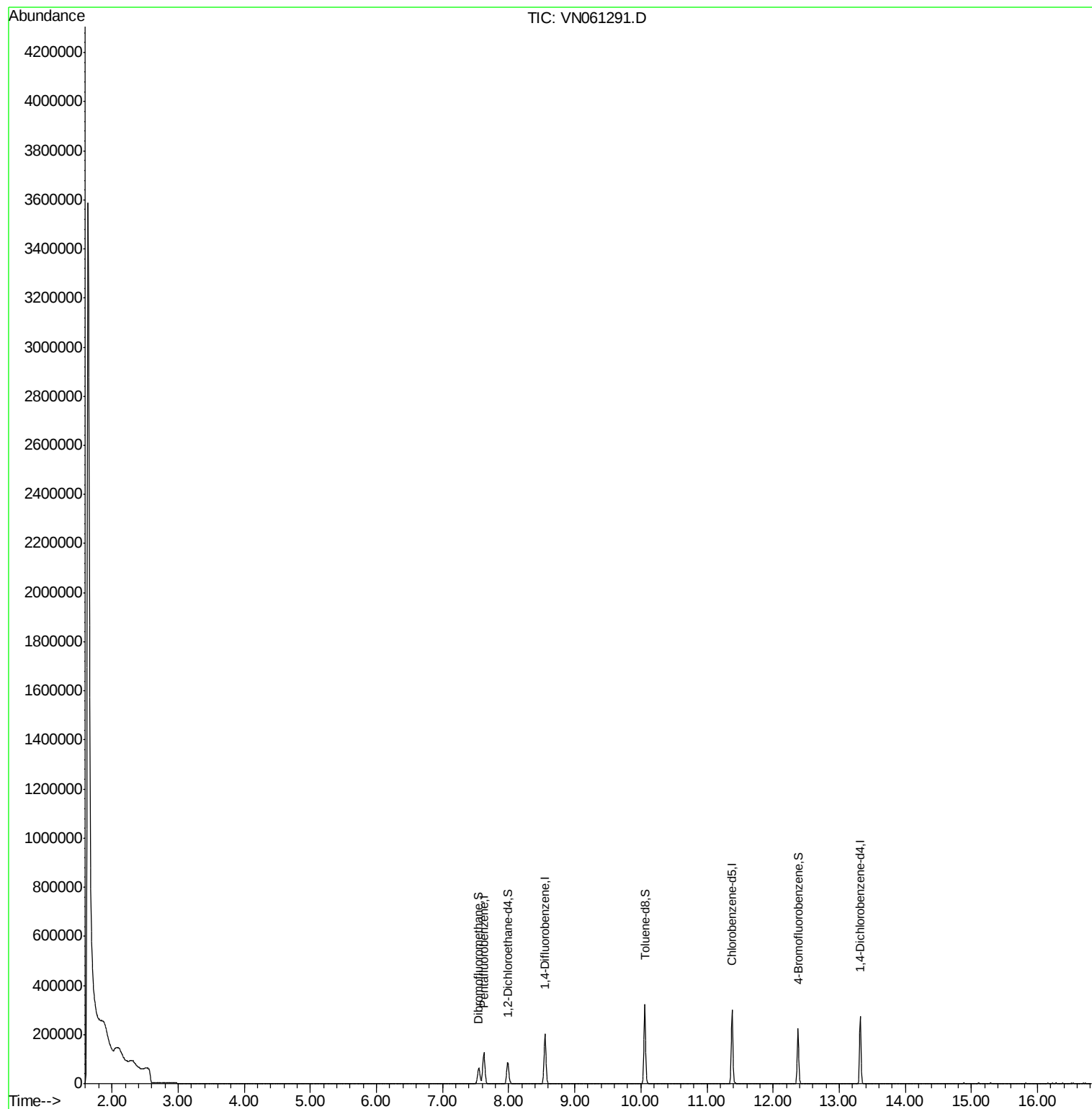
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

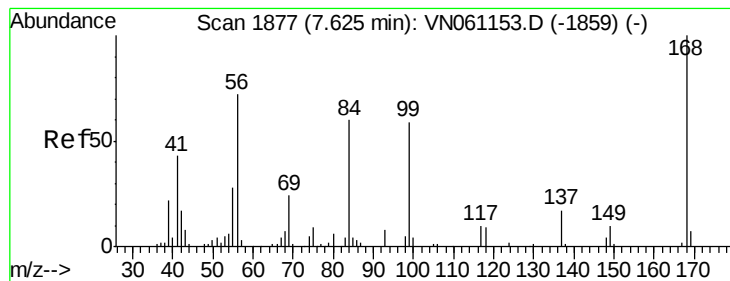
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TB-4-30-20

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Quant Title : SW846 8260  
QLast Update : Tue May 05 07:01:08 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061291.D

Acq: 5 May 2020 14:55

Instrument :

MSVOA\_N

ClientSampled :

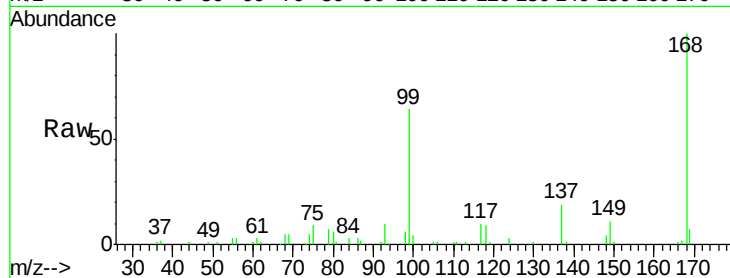
TB-4-30-20

Tot Ion:168 Resp: 94473

Ion Ratio Lower Upper

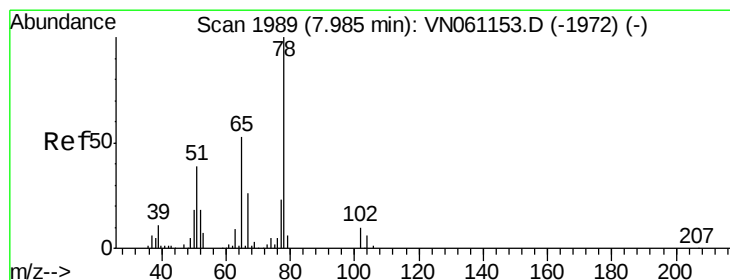
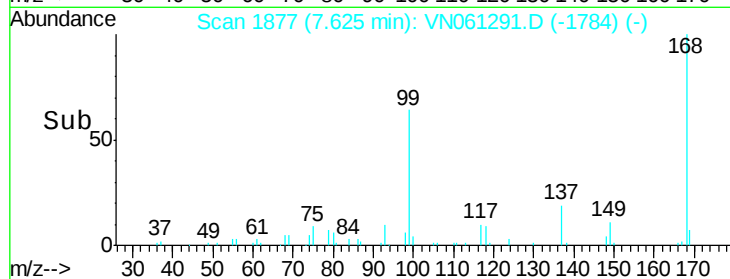
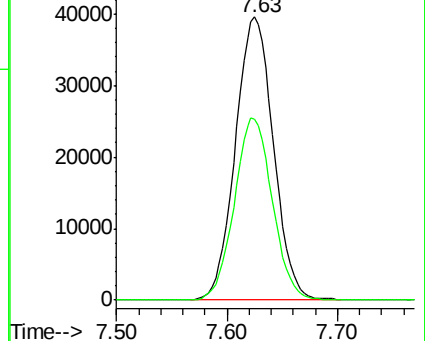
168 100

99 64.1 51.2 76.8



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: 51.309 ug/l

RT: 7.99 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN061291.D

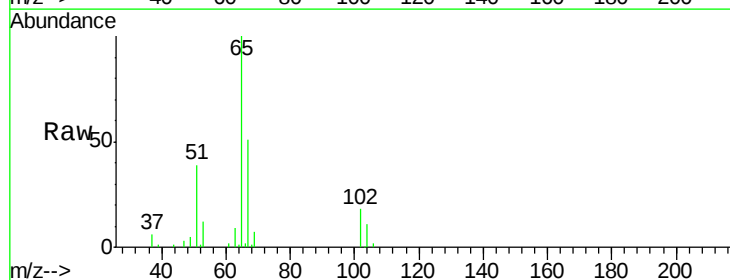
Acq: 5 May 2020 14:55

Tgt Ion: 65 Resp: 76699

Ion Ratio Lower Upper

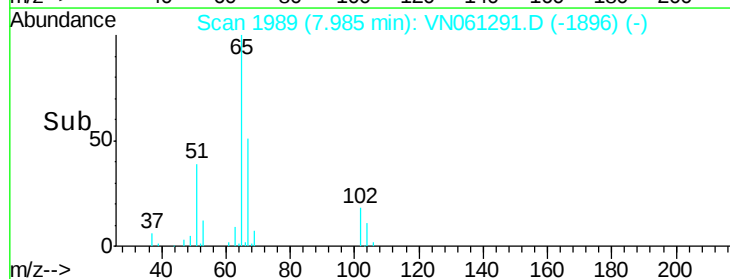
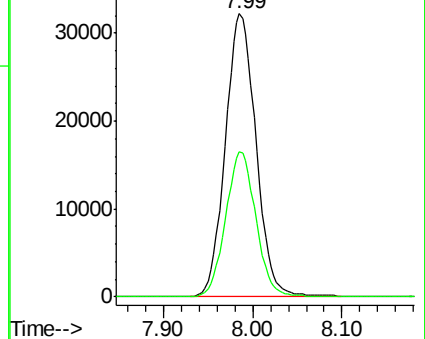
65 100

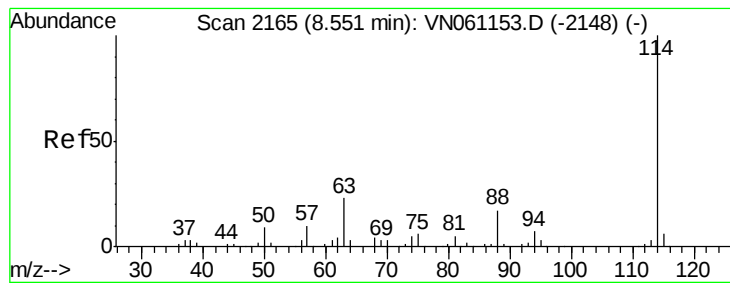
67 50.4 0.0 101.6



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: 8.55 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VN061291.D

Acq: 5 May 2020 14:55

Instrument :

MSVOA\_N

ClientSampled :

TB-4-30-20

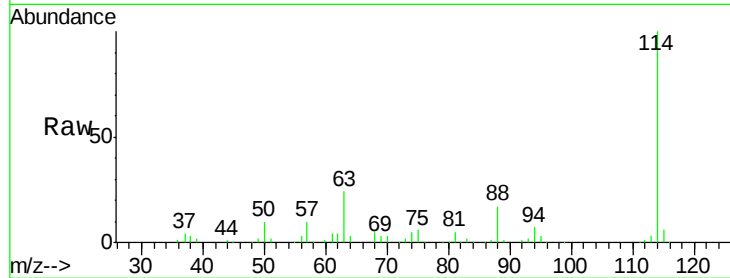
Tot Ion:114 Resp: 169827

Ion Ratio Lower Upper

114 100

63 23.6 0.0 46.6

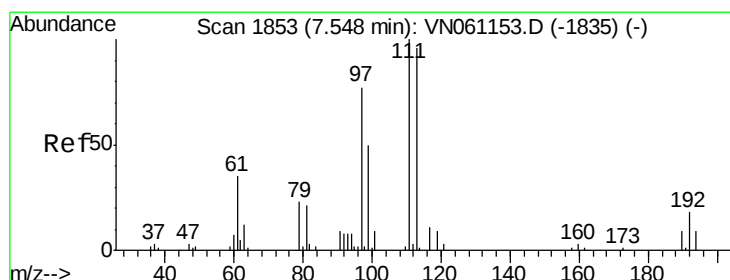
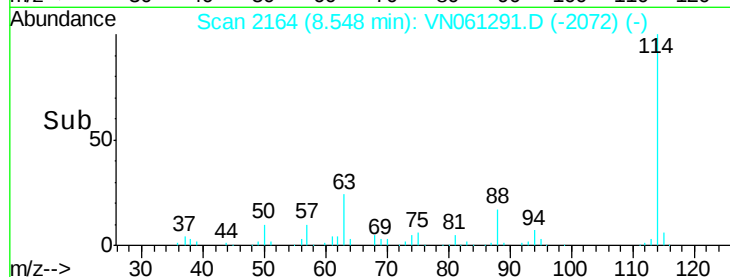
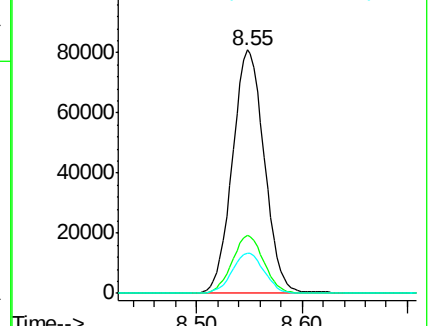
88 16.6 0.0 33.4



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: 48.824 ug/l

RT: 7.55 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VN061291.D

Acq: 5 May 2020 14:55

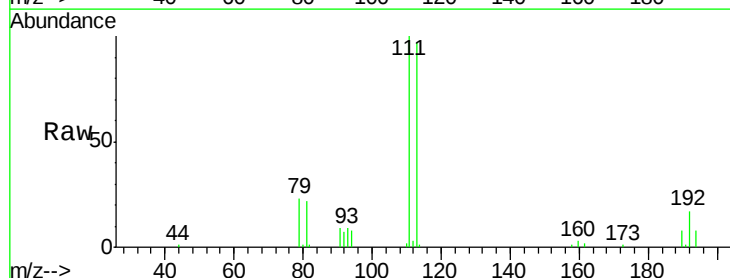
Tgt Ion:113 Resp: 49030

Ion Ratio Lower Upper

113 100

111 103.6 82.9 124.3

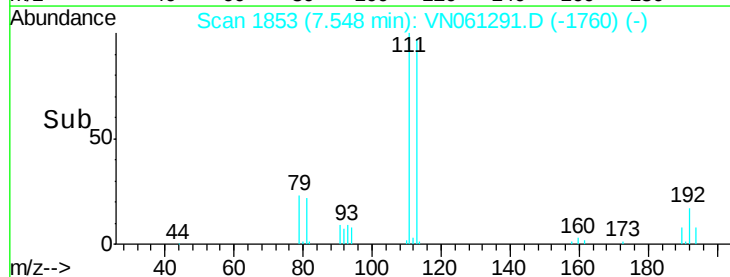
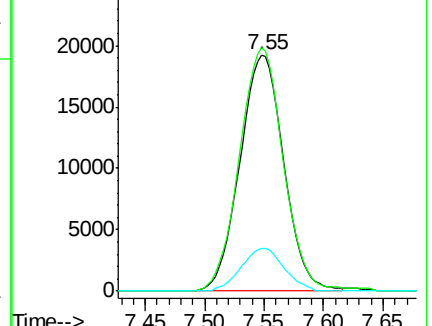
192 17.6 14.7 22.1

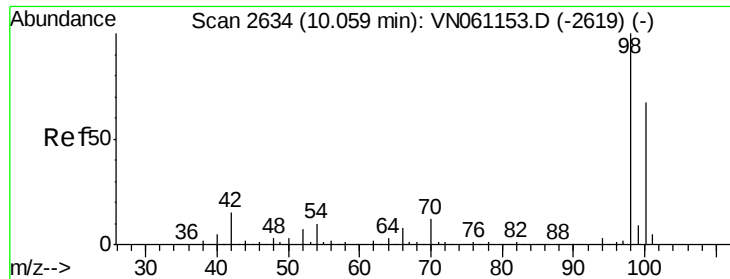


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 50.918 ug/l

RT: 10.06 min Scan# 2634

Delta R.T. 0.00 min

Lab File: VN061291.D

Acq: 5 May 2020 14:55

Instrument :

MSVOA\_N

ClientSampled :

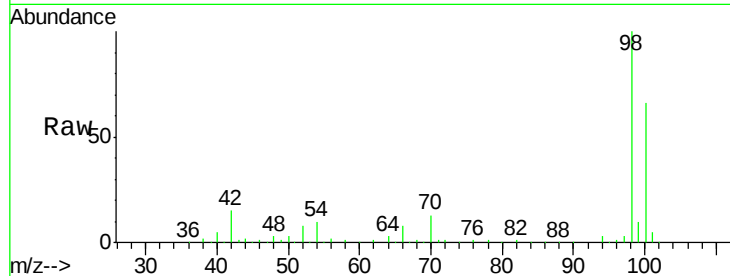
TB-4-30-20

Tot Ion: 98 Resp: 208446

Ion Ratio Lower Upper

98 100

100 66.1 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VN061153.D (-2619) (-)

Ion 100.00 (99.70 to 100.70): VN061153.D (-2619) (-)

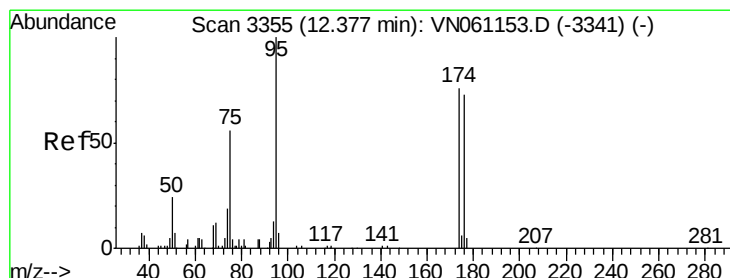
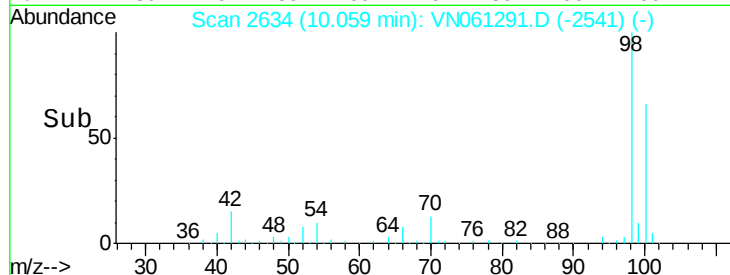
10.06

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.434 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VN061291.D

Acq: 5 May 2020 14:55

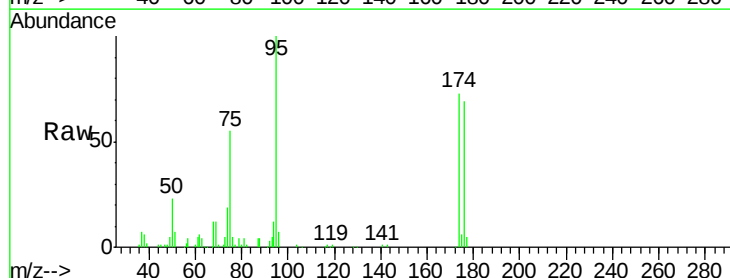
Tgt Ion: 95 Resp: 76156

Ion Ratio Lower Upper

95 100

174 72.1 0.0 149.4

176 68.4 0.0 144.8



Abundance Ion 94.90 (94.60 to 95.60): VN061153.D (-3341) (-)

Ion 173.80 (173.50 to 174.50): VN061153.D (-3341) (-)

Ion 175.80 (175.50 to 176.50): VN061153.D (-3341) (-)

12.38

60000

50000

40000

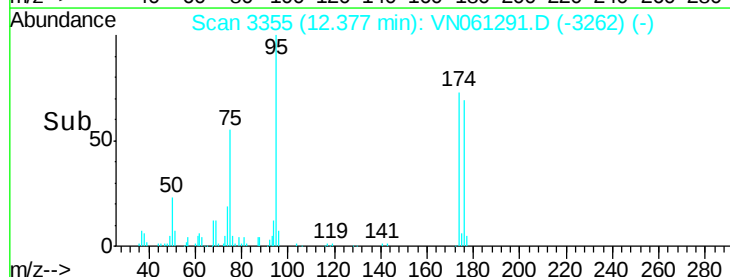
30000

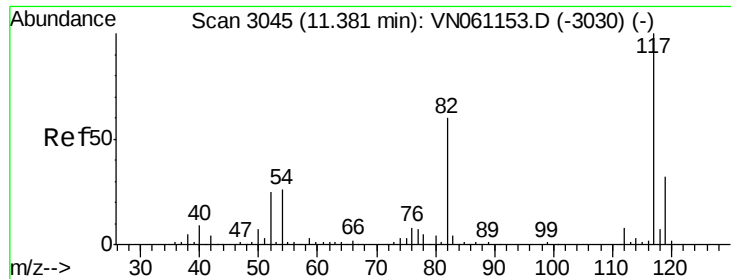
20000

10000

0

Time-->

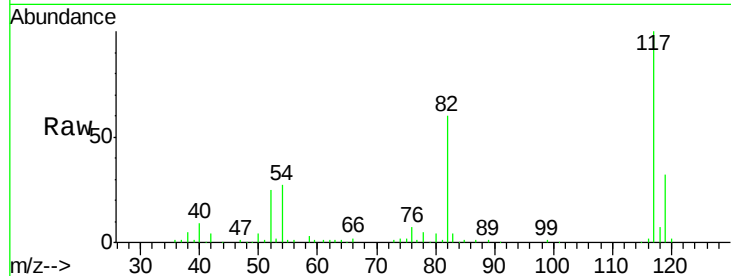




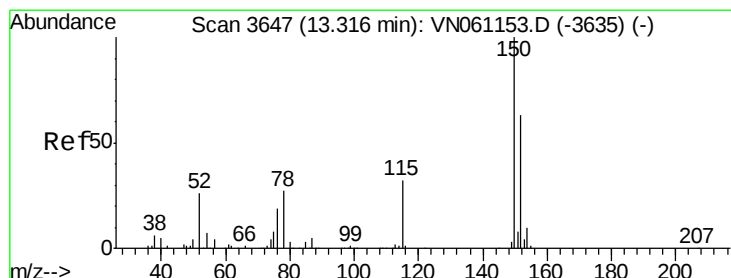
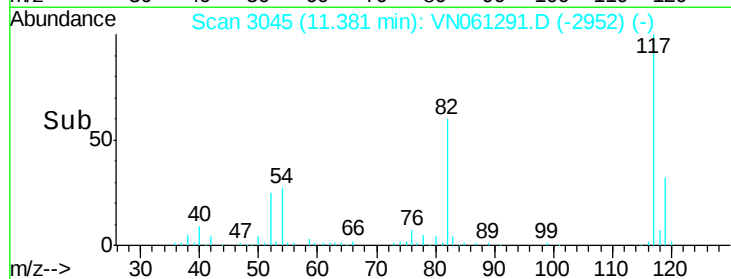
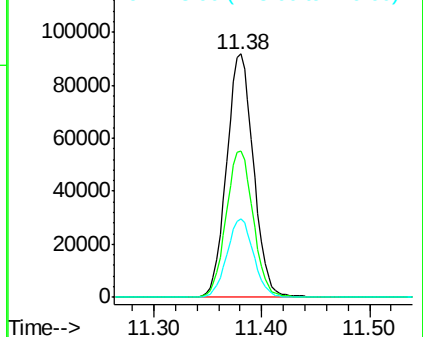
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 3045  
Delta R.T. -0.00 min  
Lab File: VN061291.D  
Acq: 5 May 2020 14:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-4-30-20

Tot Ion:117 Resp: 158758  
Ion Ratio Lower Upper  
117 100  
82 60.2 47.8 71.8  
119 32.0 25.8 38.6

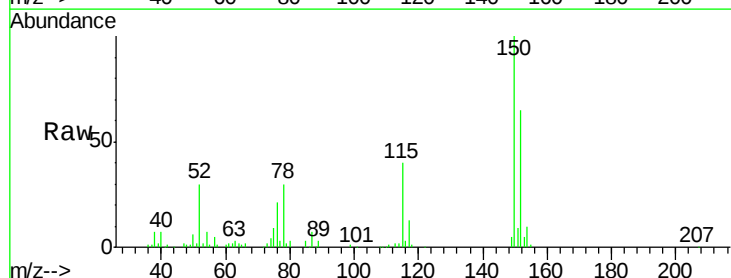


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3648  
Delta R.T. 0.00 min  
Lab File: VN061291.D  
Acq: 5 May 2020 14:55

Tgt Ion:152 Resp: 67834  
Ion Ratio Lower Upper  
152 100  
115 62.2 31.0 93.0  
150 155.5 0.0 351.8



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

