

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\  
 Data File : VN061456.D  
 Acq On : 19 May 2020 3:49  
 Operator : JC/MD  
 Sample : L2671-02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 Z4-TB11-200514

Quant Time: May 19 05:04:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 18 13:09:55 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 270727   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 504956   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 487752   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 213191   | 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   | 192655   | 47.68 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.36%  |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 141624   | 53.54 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 107.08% |          |
| 50) Toluene-d8              | 10.06 | 98   | 639096   | 52.09 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.18% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 243141   | 53.04 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 106.08% |          |

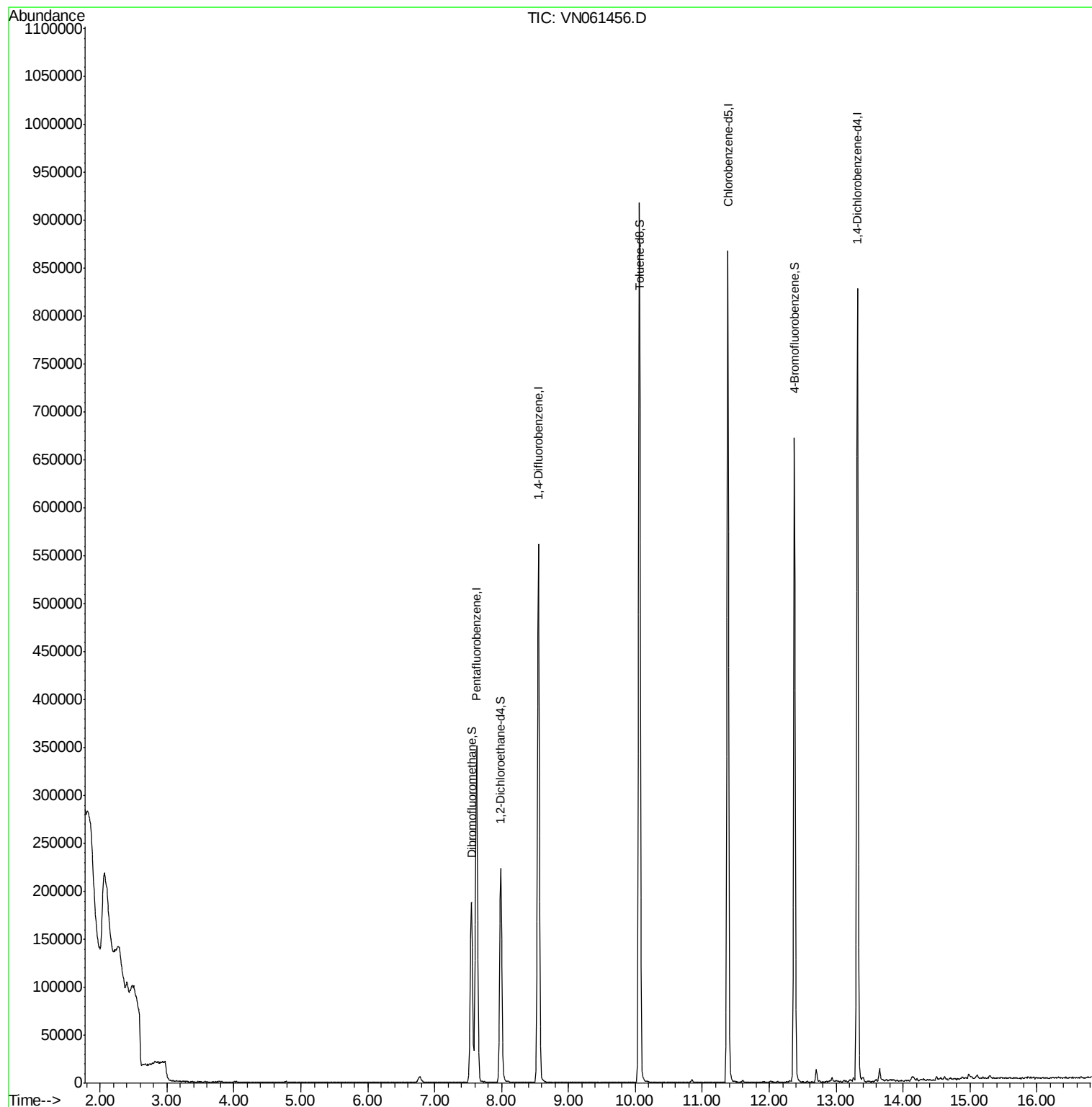
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

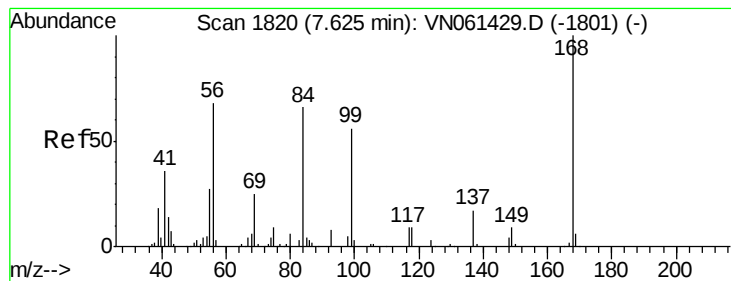
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Mon May 18 13:09:55 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061456.D

Acq: 19 May 2020 3:49

Instrument :

MSVOA\_N

ClientSampleId :

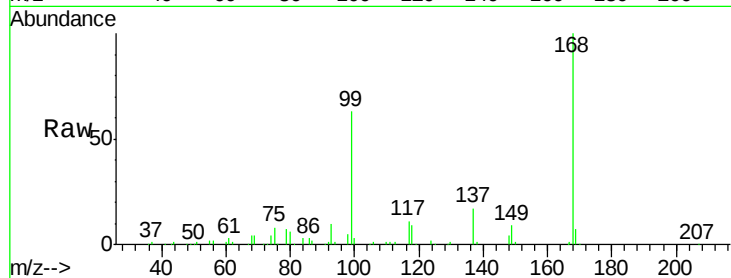
Z4-TB11-200514

Tot Ion:168 Resp: 270727

Ion Ratio Lower Upper

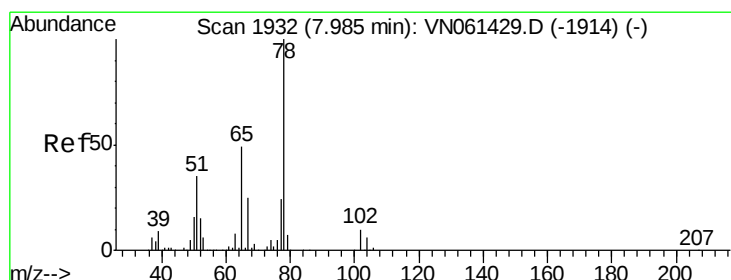
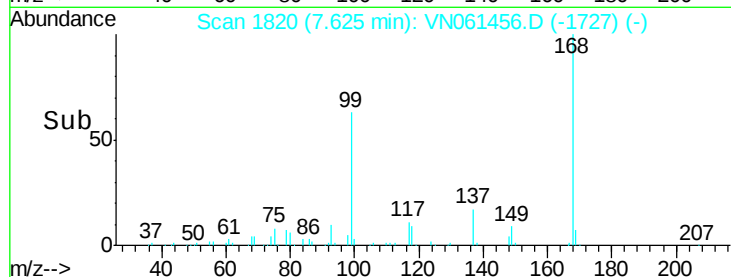
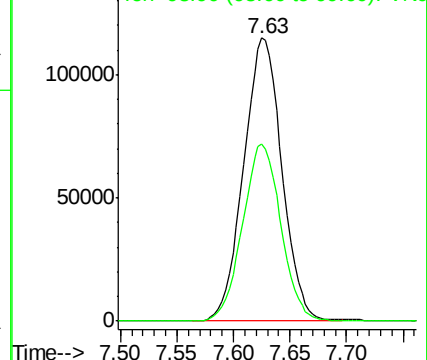
168 100

99 62.6 51.1 76.7



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: 47.681 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061456.D

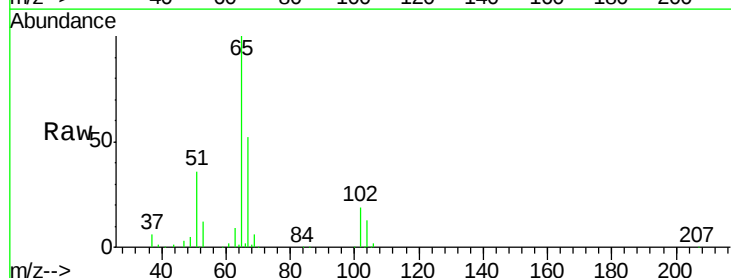
Acq: 19 May 2020 3:49

Tgt Ion: 65 Resp: 192655

Ion Ratio Lower Upper

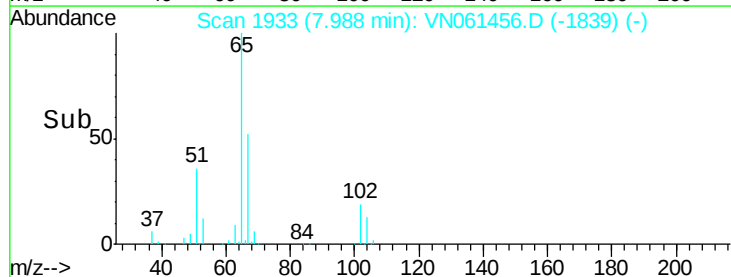
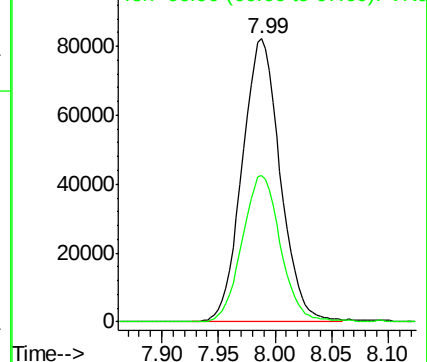
65 100

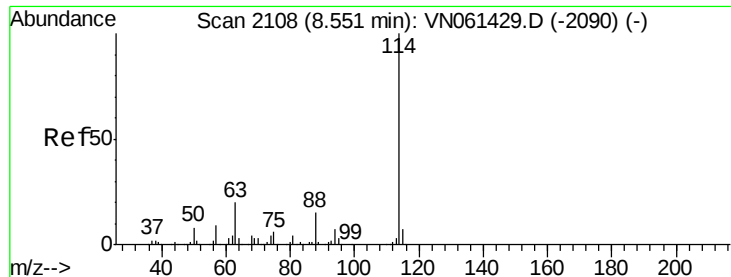
67 52.3 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

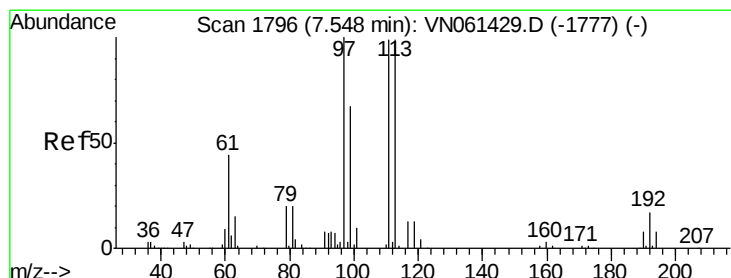
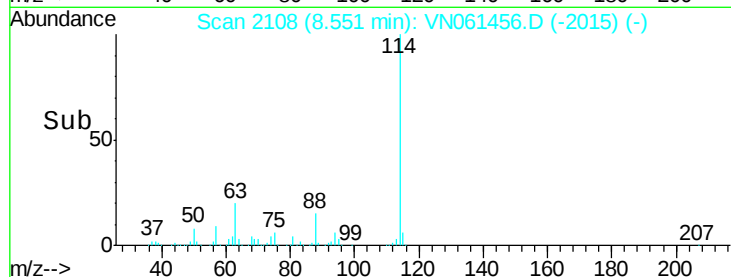
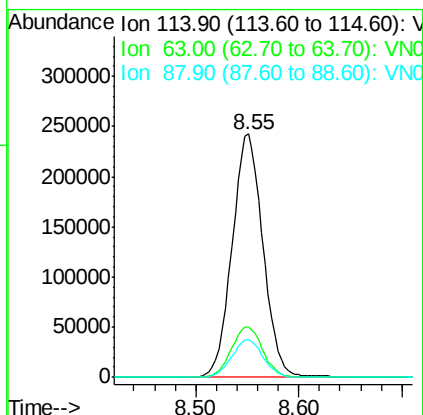
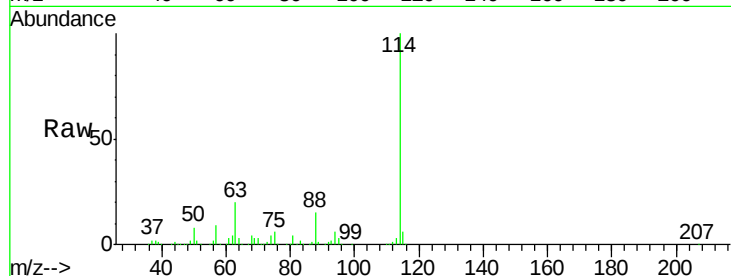




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN061456.D  
 Acq: 19 May 2020 3:49

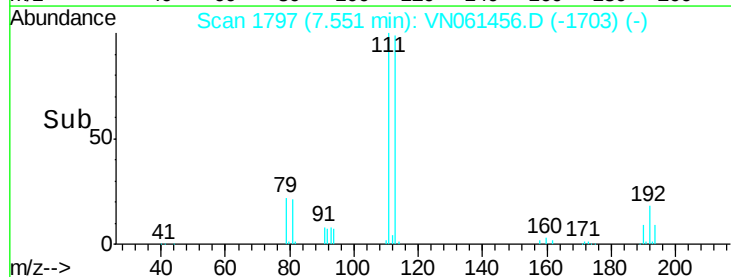
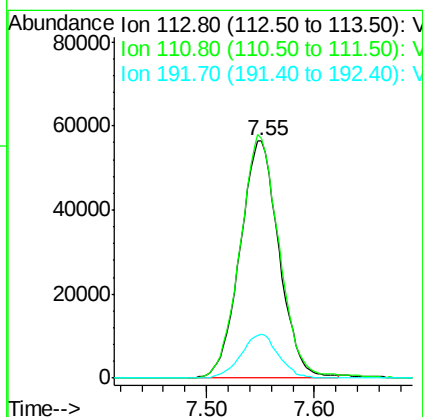
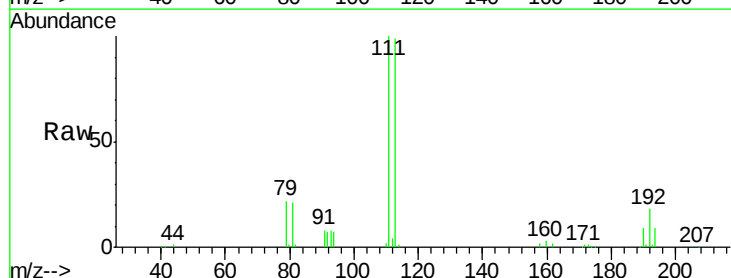
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 Z4-TB11-200514

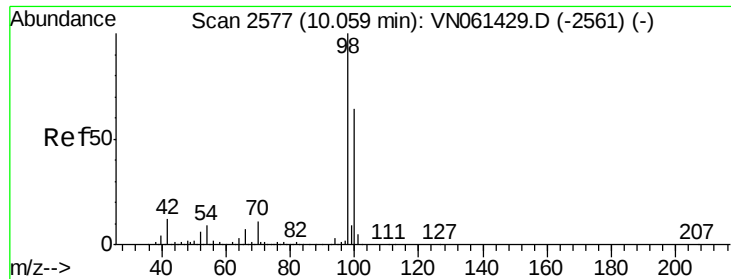
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.5  | 0.0   | 40.8  |
| 88      | 15.5  | 0.0   | 30.8  |



#35  
 Dibromofluoromethane  
 Concen: 53.537 ug/l  
 RT: 7.55 min Scan# 1797  
 Delta R.T. 0.00 min  
 Lab File: VN061456.D  
 Acq: 19 May 2020 3:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.5 | 80.6  | 121.0 |
| 192     | 17.8  | 13.2  | 19.8  |





#50

Toluene-d8

Concen: 52.088 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061456.D

Acq: 19 May 2020 3:49

Instrument :

MSVOA\_N

ClientSampleId :

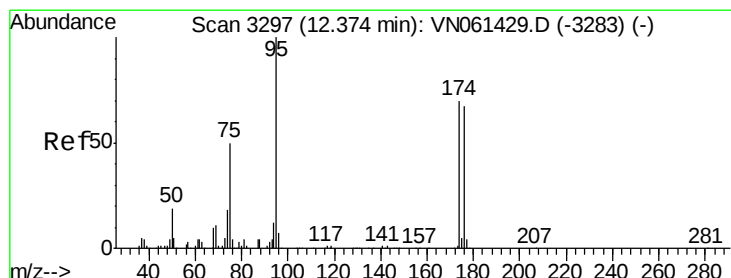
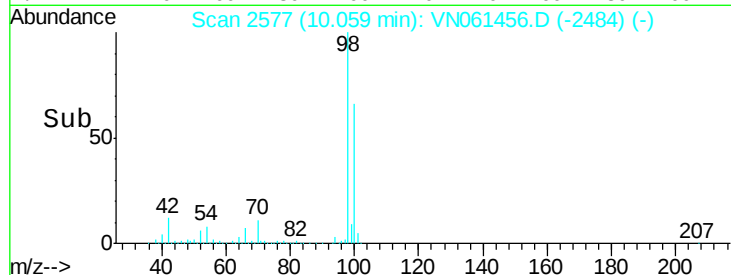
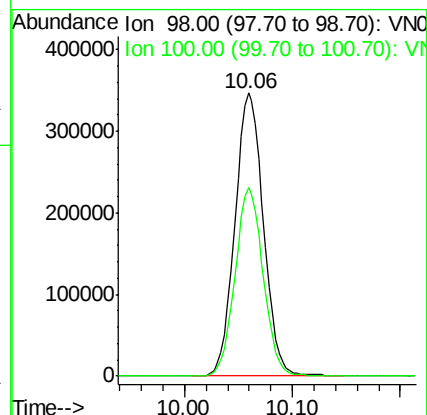
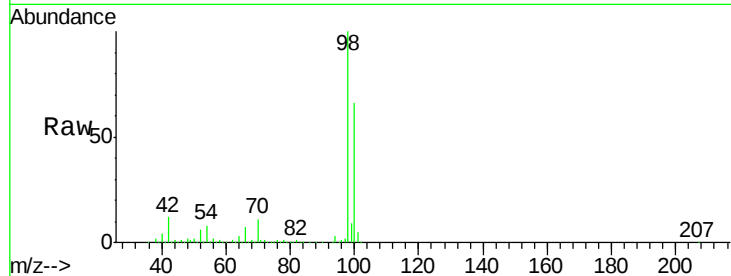
Z4-TB11-200514

Tot Ion: 98 Resp: 639096

Ion Ratio Lower Upper

98 100

100 65.8 51.8 77.8



#62

4-Bromofluorobenzene

Concen: 53.041 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061456.D

Acq: 19 May 2020 3:49

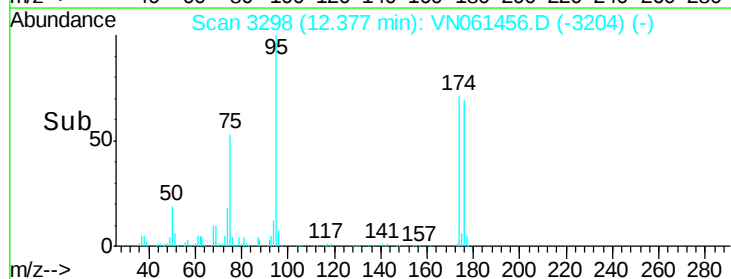
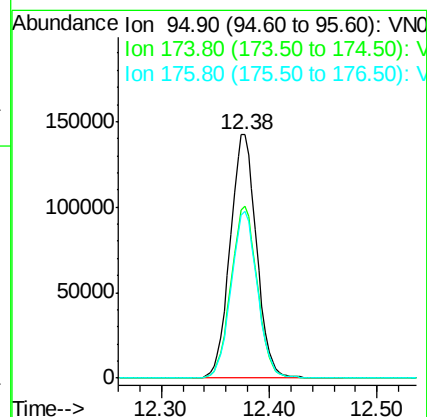
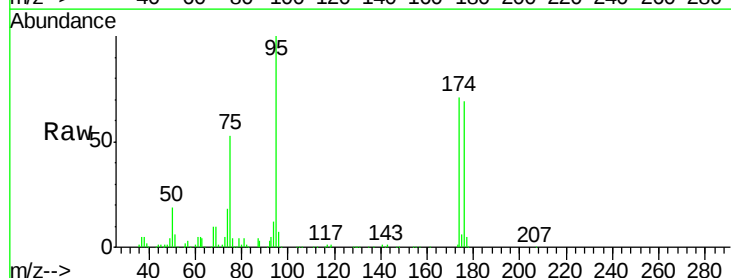
Tgt Ion: 95 Resp: 243141

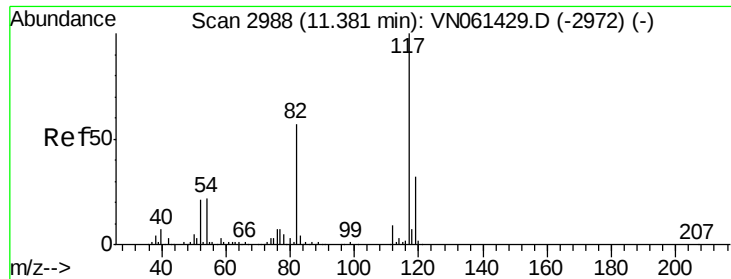
Ion Ratio Lower Upper

95 100

174 70.4 0.0 141.2

176 68.1 0.0 137.6

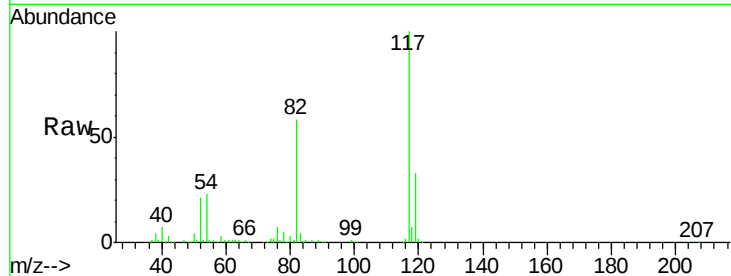




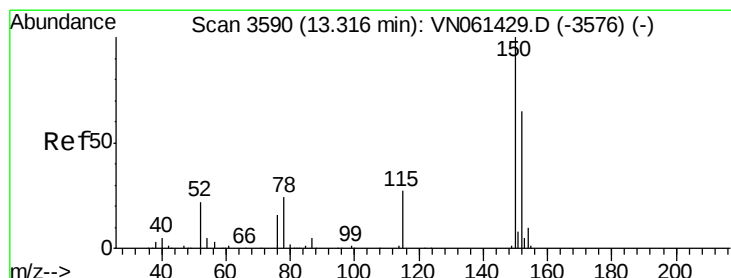
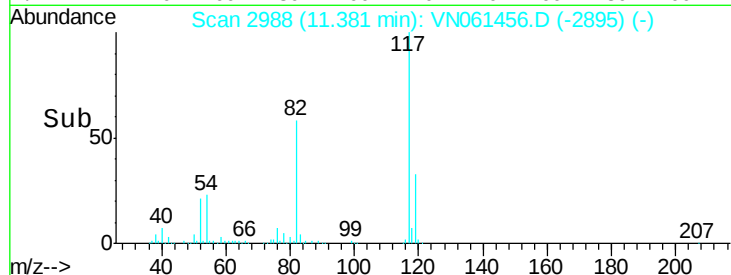
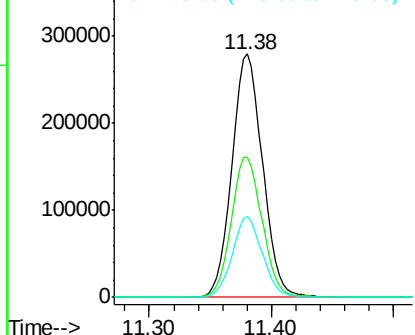
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN061456.D  
Acq: 19 May 2020 3:49

Instrument :  
MSVOA\_N  
ClientSampleId :  
Z4-TB11-200514

Tot Ion:117 Resp: 487752  
Ion Ratio Lower Upper  
117 100  
82 57.6 45.2 67.8  
119 33.4 25.3 37.9

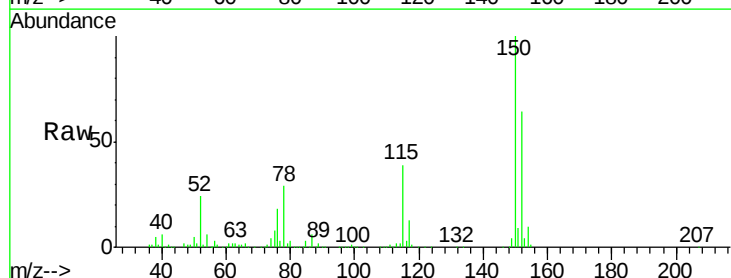


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3591  
Delta R.T. 0.00 min  
Lab File: VN061456.D  
Acq: 19 May 2020 3:49

Tgt Ion:152 Resp: 213191  
Ion Ratio Lower Upper  
152 100  
115 62.2 30.9 92.5  
150 157.7 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

