

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\  
 Data File : VN061566.D  
 Acq On : 29 May 2020 14:48  
 Operator : JC/MD  
 Sample : L2803-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-4

Quant Time: May 30 06:37:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 29 02:14:10 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 286911   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 512443   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 497094   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 214515   | 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   | 179001   | 52.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.72% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 145296   | 55.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.78% |          |
| 50) Toluene-d8              | 10.06 | 98   | 622815   | 51.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.40% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 232014   | 52.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.58% |          |

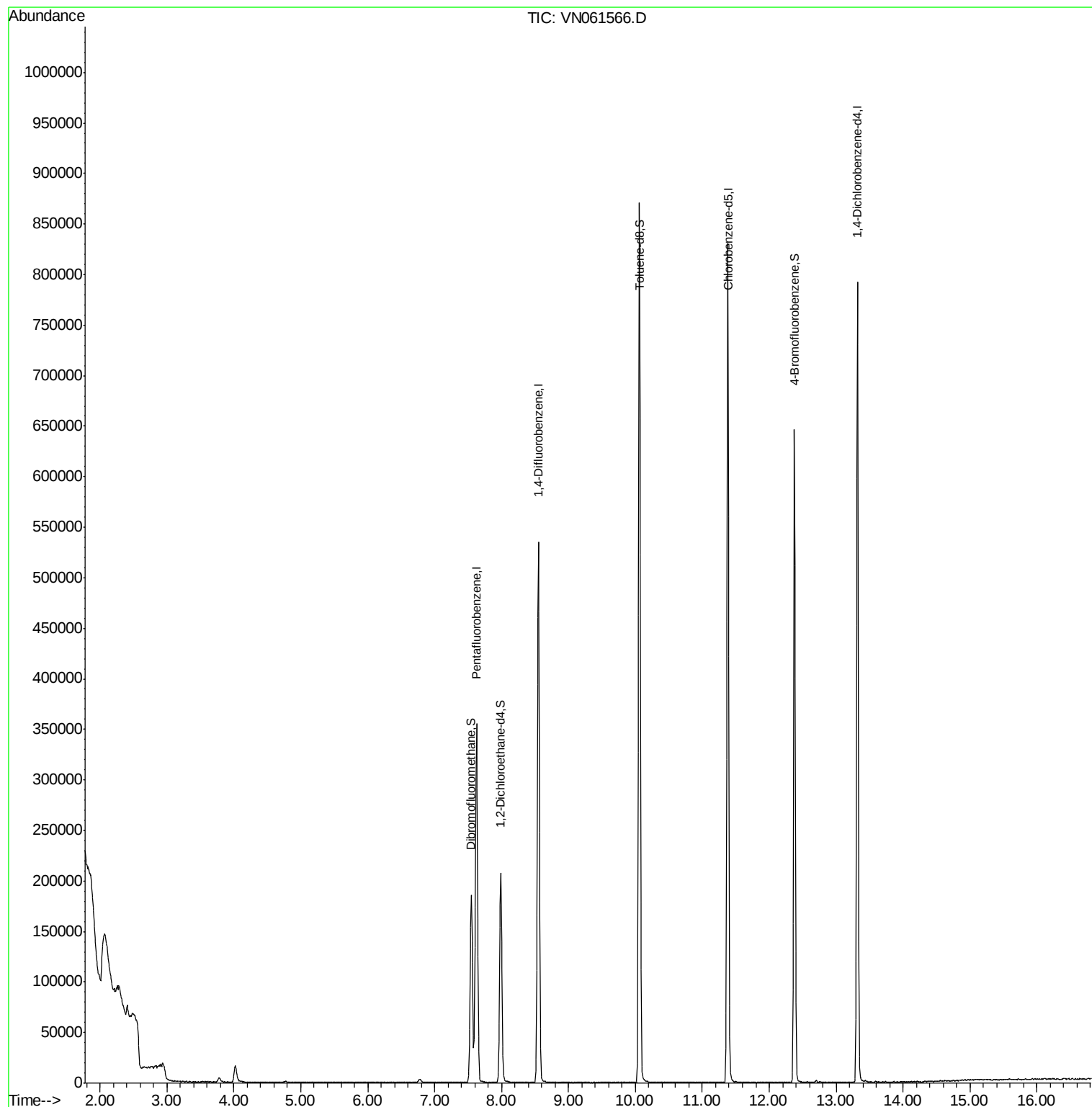
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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Quant Time: May 30 06:37:05 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 29 02:14:10 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: VN061566.D

Acq: 29 May 2020 14:48

Instrument :

MSVOA\_N

ClientSampleId :

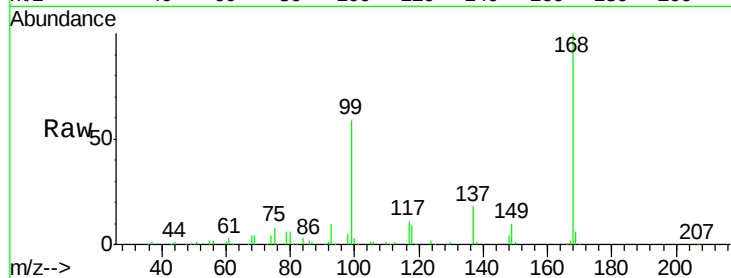
STORAGE-BLANK-SOIL-REF-4

Tot Ion:168 Resp: 286911

Ion Ratio Lower Upper

168 100

99 59.1 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

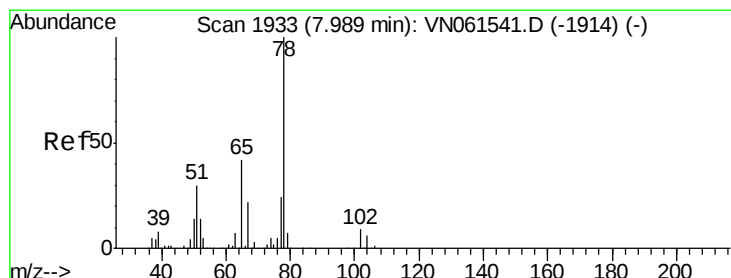
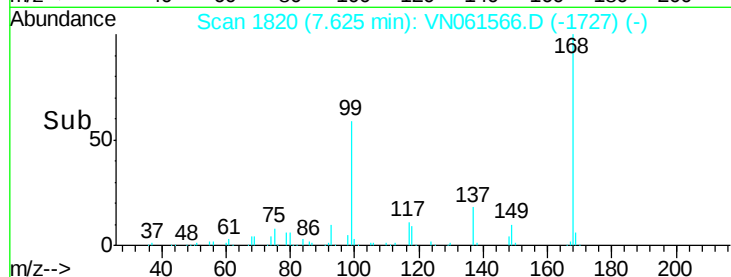
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#33

1,2-Dichloroethane-d4

Concen: 52.365 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061566.D

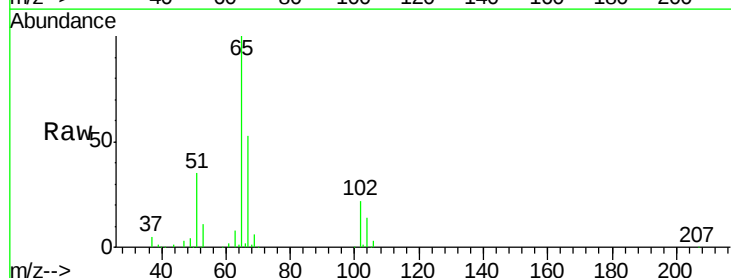
Acq: 29 May 2020 14:48

Tgt Ion: 65 Resp: 179001

Ion Ratio Lower Upper

65 100

67 51.9 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

7.99

80000

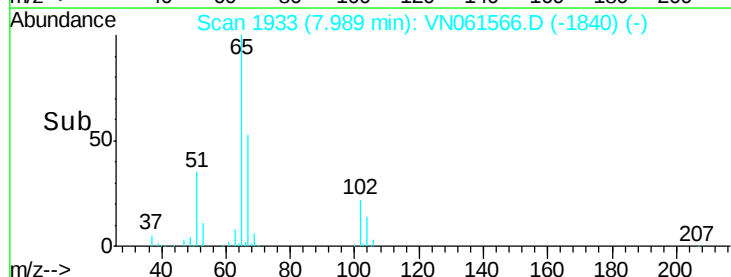
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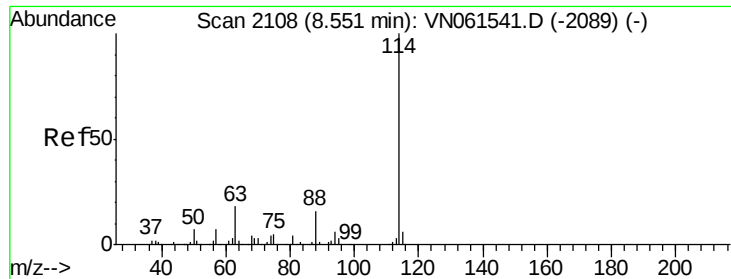
40000

20000

0

Time--> 7.90 8.00 8.10

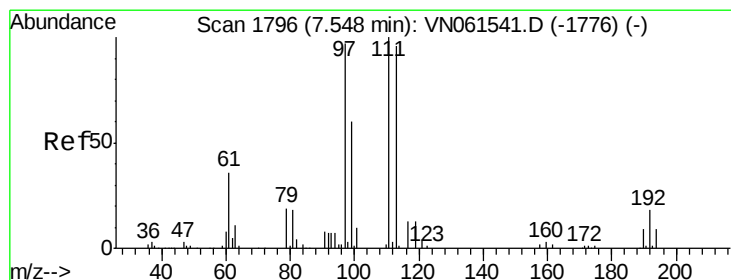
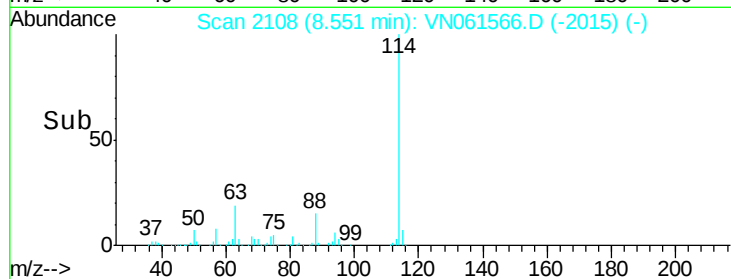
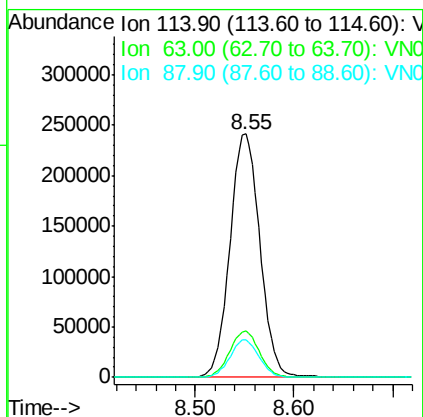
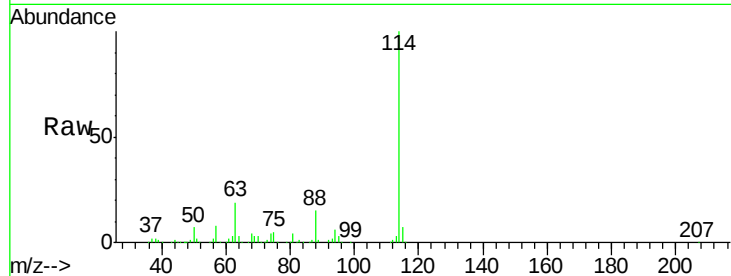




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. 0.00 min  
 Lab File: VN061566.D  
 Acq: 29 May 2020 14:48

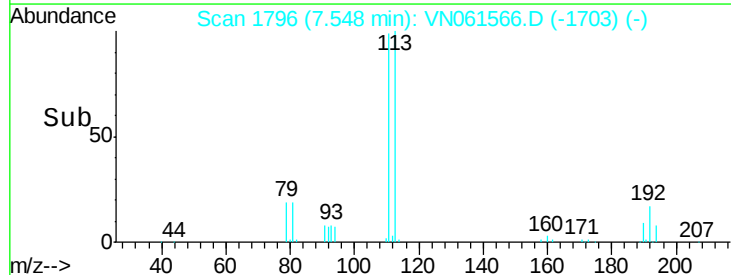
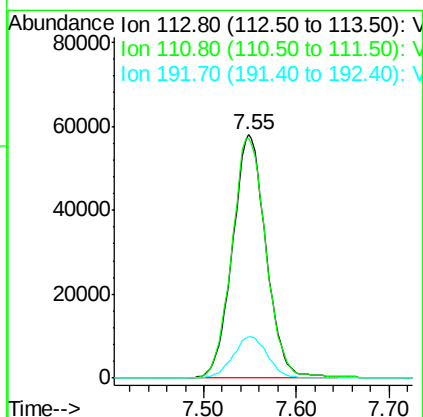
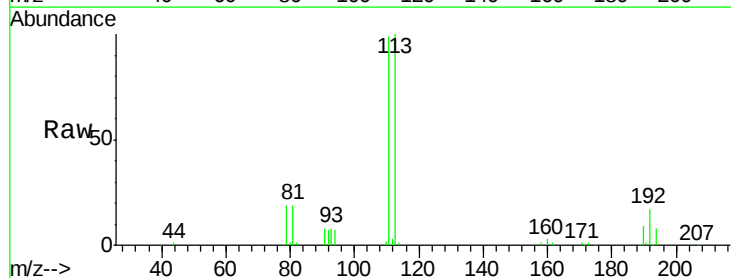
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-4

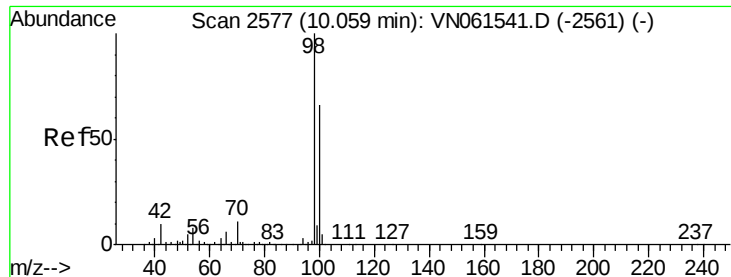
Tot Ion:114 Resp: 512443  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 35.8  
 88 15.2 0.0 31.0



#35  
 Dibromofluoromethane  
 Concen: 55.893 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. 0.00 min  
 Lab File: VN061566.D  
 Acq: 29 May 2020 14:48

Tgt Ion:113 Resp: 145296  
 Ion Ratio Lower Upper  
 113 100  
 111 101.0 83.4 125.0  
 192 17.6 15.4 23.2





#50

Toluene-d8

Concen: 51.701 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061566.D

Acq: 29 May 2020 14:48

Instrument :

MSVOA\_N

ClientSampleId :

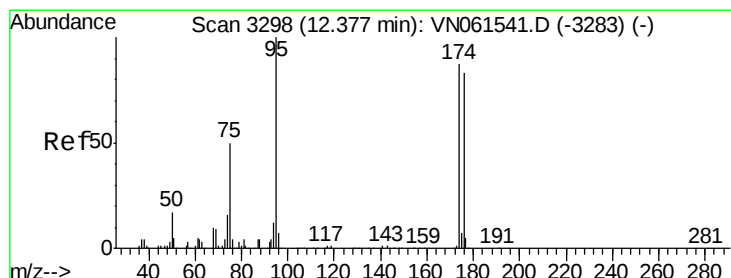
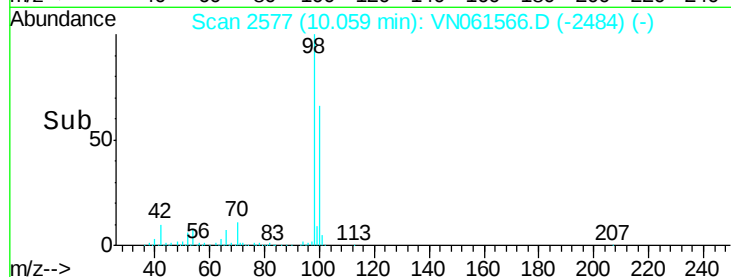
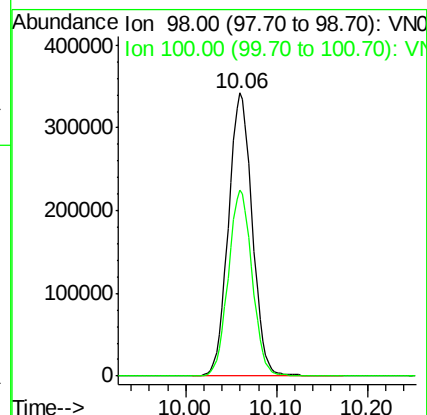
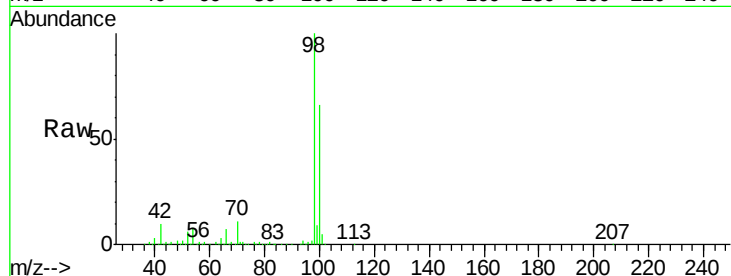
STORAGE-BLANK-SOIL-REF-4

Tot Ion: 98 Resp: 622815

Ion Ratio Lower Upper

98 100

100 65.8 52.8 79.2



#62

4-Bromofluorobenzene

Concen: 52.790 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061566.D

Acq: 29 May 2020 14:48

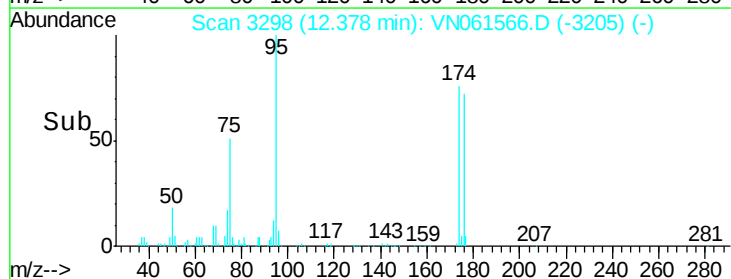
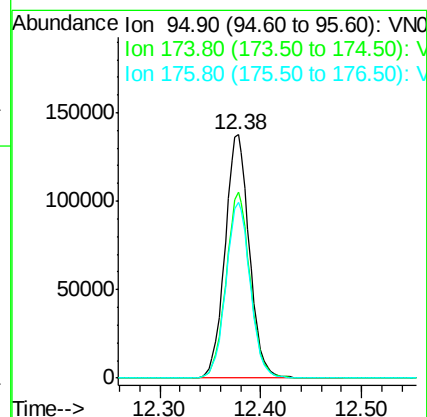
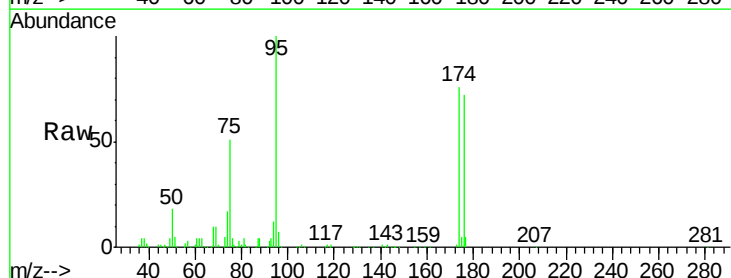
Tgt Ion: 95 Resp: 232014

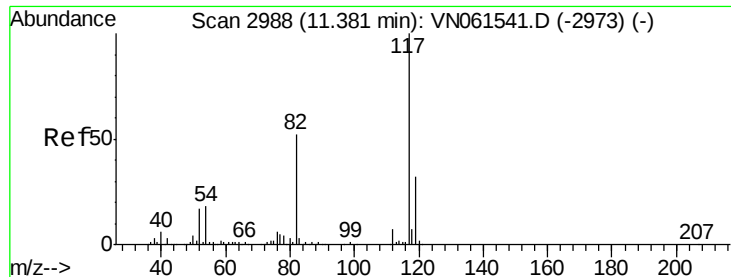
Ion Ratio Lower Upper

95 100

174 75.4 0.0 172.8

176 72.1 0.0 164.8

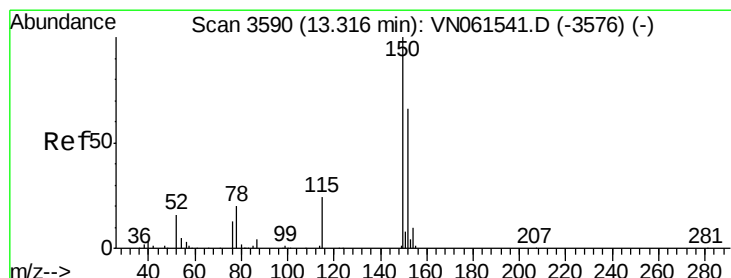
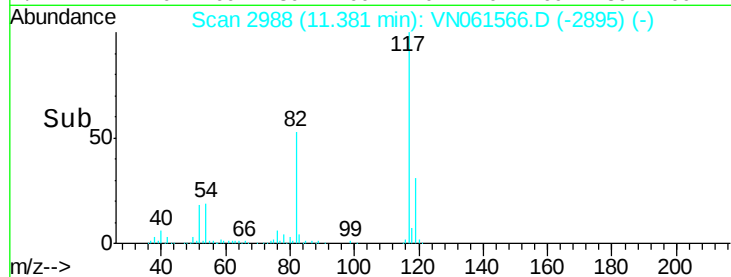
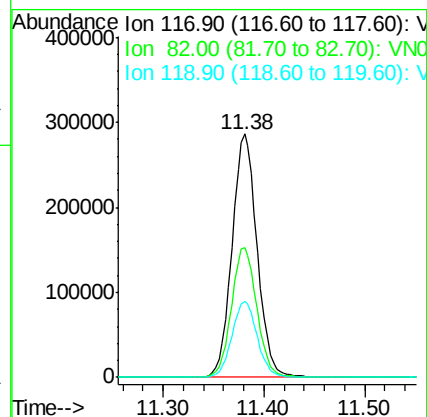
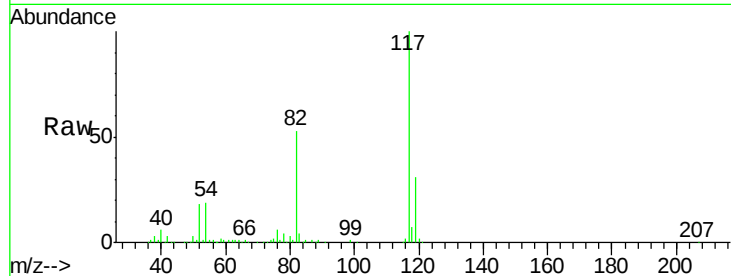




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. 0.00 min  
Lab File: VN061566.D  
Acq: 29 May 2020 14:48

Instrument :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.5  | 41.5  | 62.3  |
| 119     | 31.3  | 25.6  | 38.4  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3591  
Delta R.T. 0.00 min  
Lab File: VN061566.D  
Acq: 29 May 2020 14:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.8  | 28.0  | 84.0  |
| 150     | 157.2 | 0.0   | 344.0 |

