

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111119\  
 Data File : VN059152.D  
 Acq On : 11 Nov 2019 11:56  
 Operator : JC/SP  
 Sample : K5775-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANA

Quant Time: Nov 12 01:28:05 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  | 474703   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 736417   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 634035   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 226960   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.00   | 65  | 300517   | 51.50 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.00% |      |
| 35) Dibromofluoromethane    | 7.57   | 113 | 223329   | 50.79 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.58% |      |
| 50) Toluene-d8              | 10.08  | 98  | 881795   | 50.91 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.82% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 281312   | 45.05 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.10%  |      |

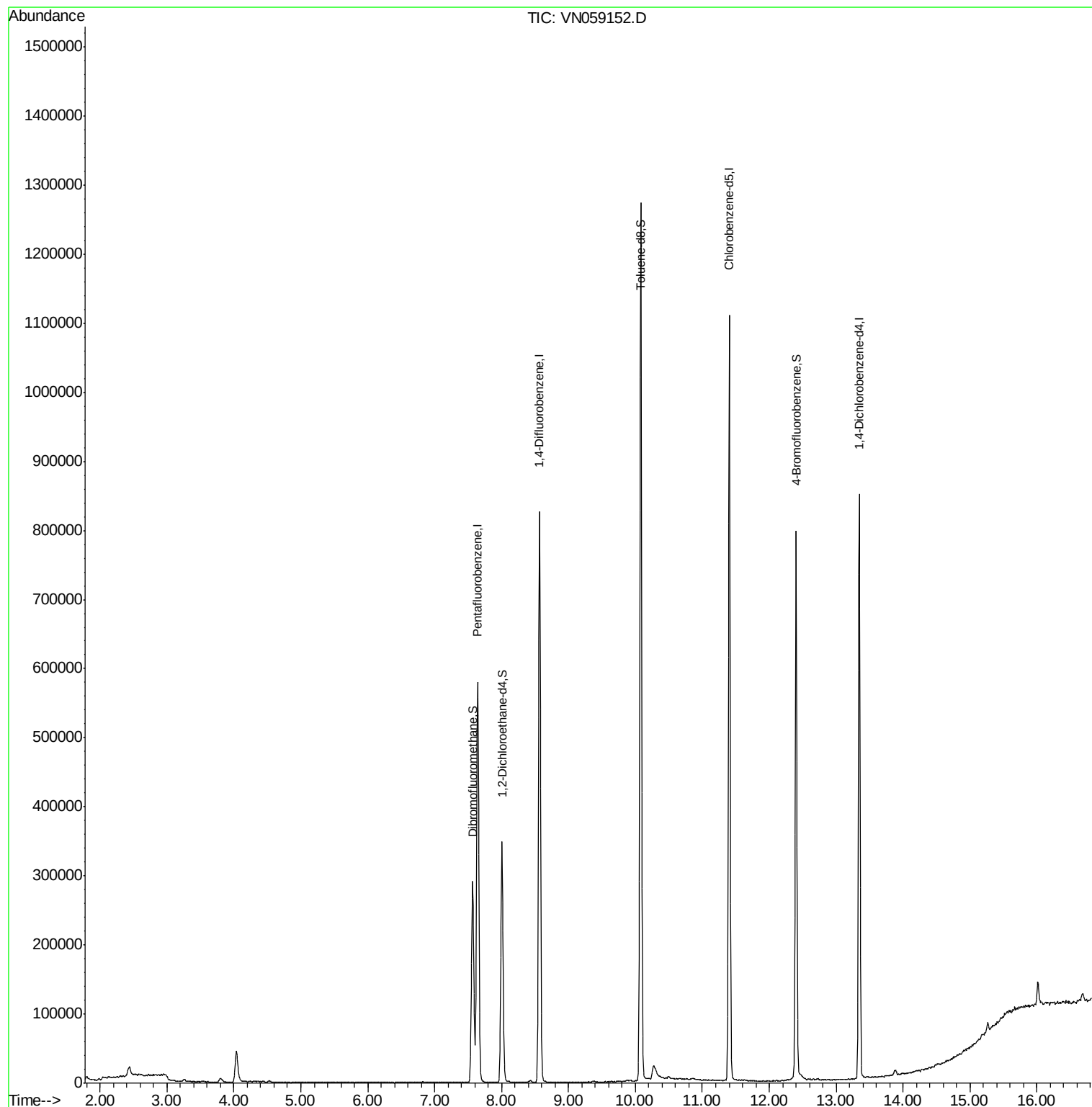
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

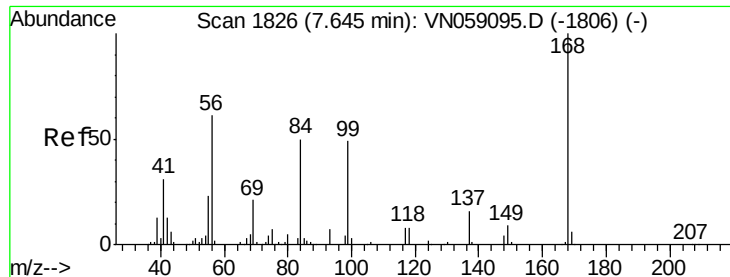
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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STORAGE-BLANK-SAMPLE-MANA

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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# 1826

Delta R.T. -0.00 min

Lab File: VN059152.D

Acq: 11 Nov 2019 11:56

Instrument :

MSVOA\_N

ClientSampleId :

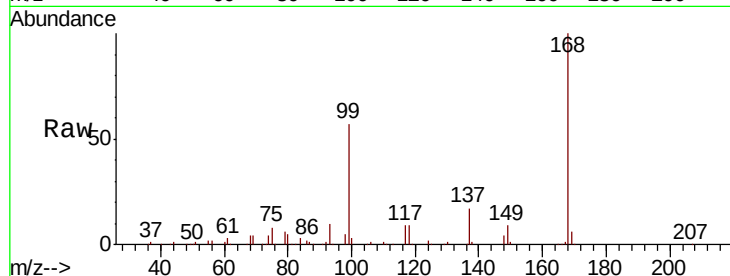
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:168 Resp: 474703

Ion Ratio Lower Upper

168 100

99 56.5 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

200000

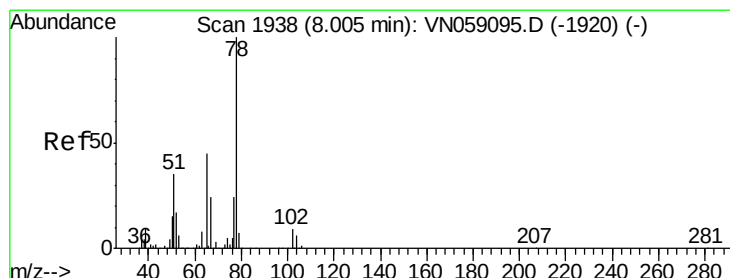
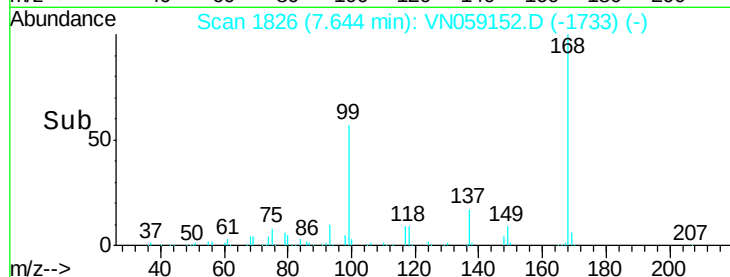
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.500 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN059152.D

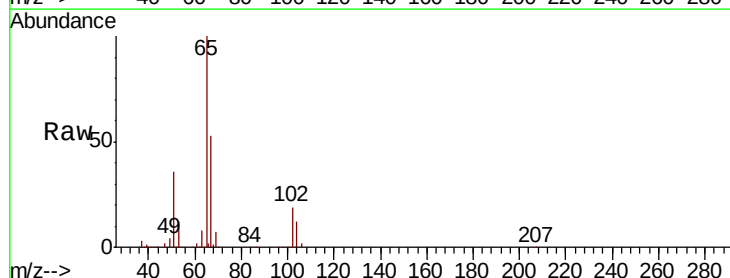
Acq: 11 Nov 2019 11:56

Tgt Ion: 65 Resp: 300517

Ion Ratio Lower Upper

65 100

67 52.5 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

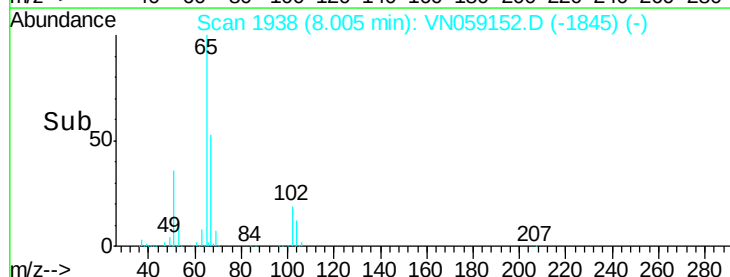
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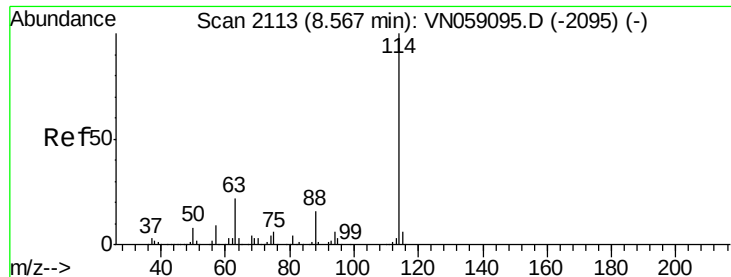
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Time-->

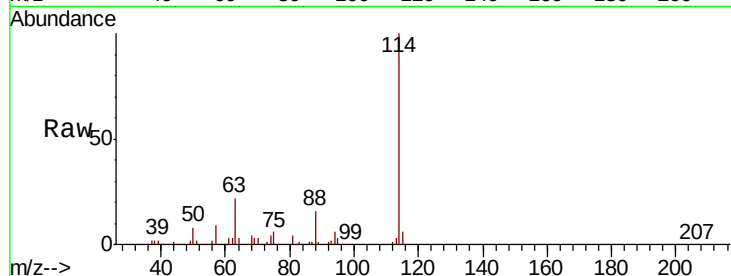




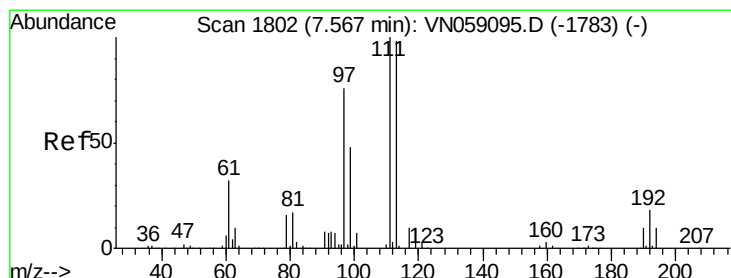
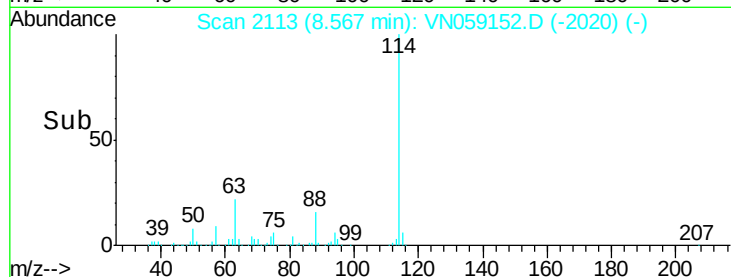
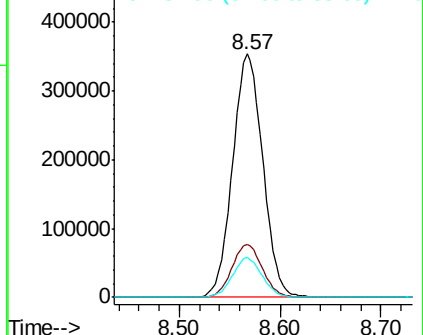
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. -0.00 min  
 Lab File: VN059152.D  
 Acq: 11 Nov 2019 11:56

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANA

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.7  | 0.0   | 43.4  |
| 88      | 16.3  | 0.0   | 32.2  |

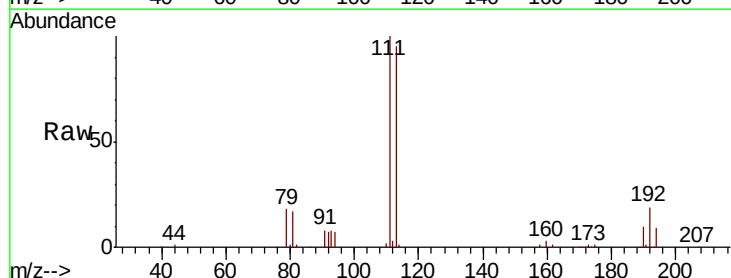


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

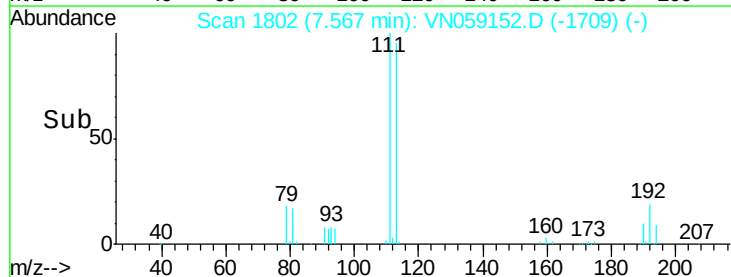
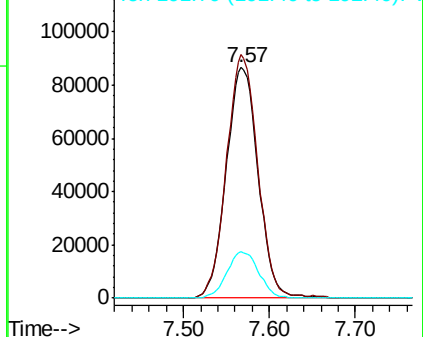


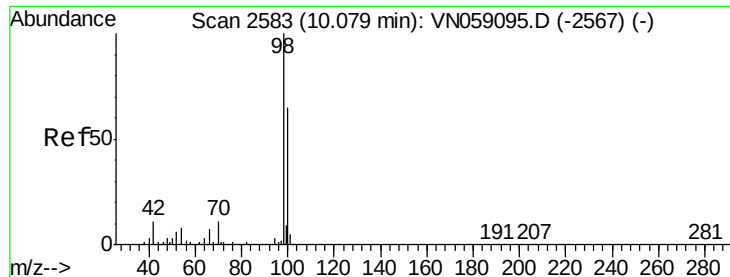
#35  
 Dibromofluoromethane  
 Concen: 50.790 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. -0.00 min  
 Lab File: VN059152.D  
 Acq: 11 Nov 2019 11:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 82.8  | 124.2 |
| 192     | 20.2  | 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

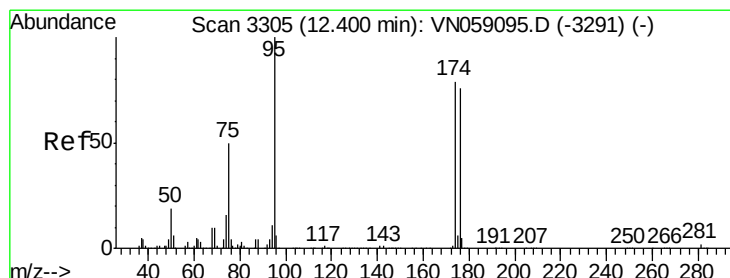
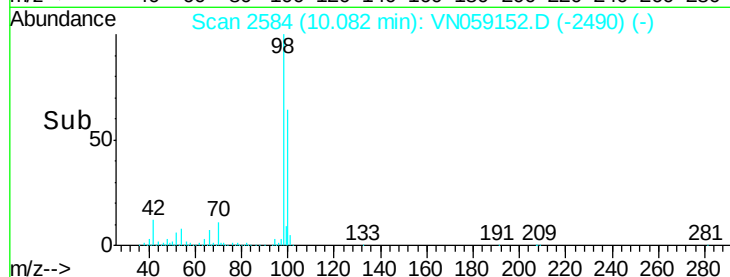
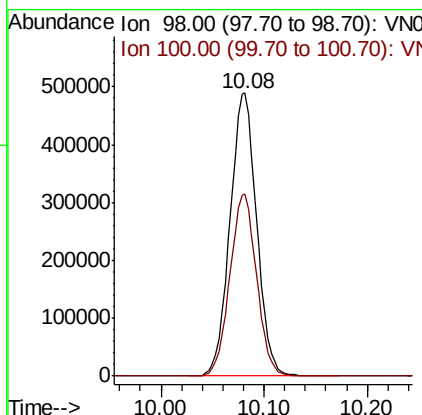
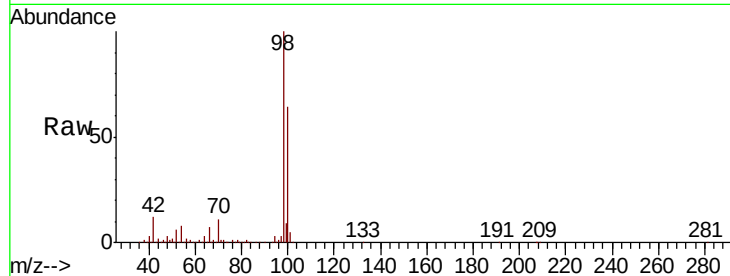




#50  
Toluene-d8  
Concen: 50.912 ug/l  
RT: 10.08 min Scan# 2584  
Delta R.T. 0.00 min  
Lab File: VN059152.D  
Acq: 11 Nov 2019 11:56

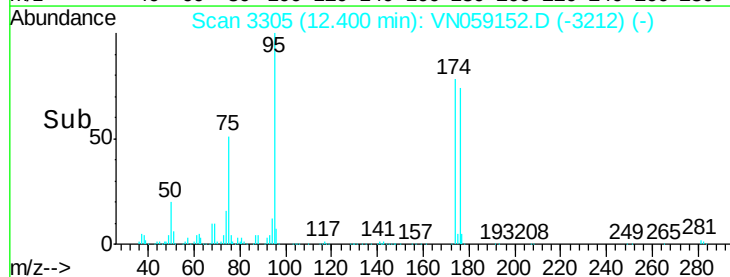
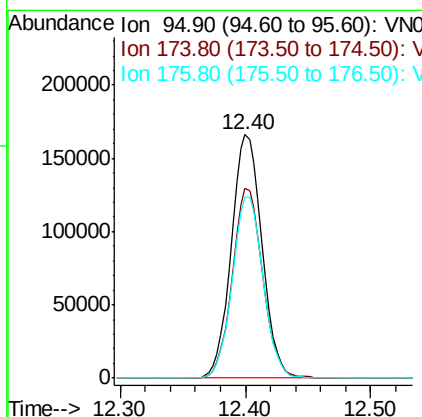
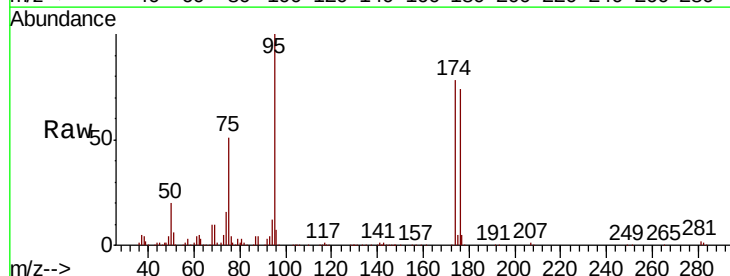
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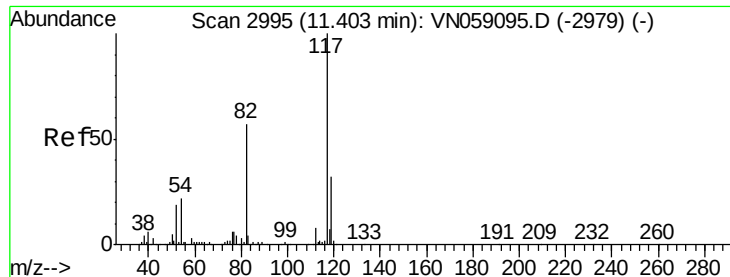
Tot Ion: 98 Resp: 881795  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.2 78.2



#62  
4-Bromofluorobenzene  
Concen: 45.047 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN059152.D  
Acq: 11 Nov 2019 11:56

Tgt Ion: 95 Resp: 281312  
Ion Ratio Lower Upper  
95 100  
174 77.3 0.0 158.2  
176 74.7 0.0 151.8

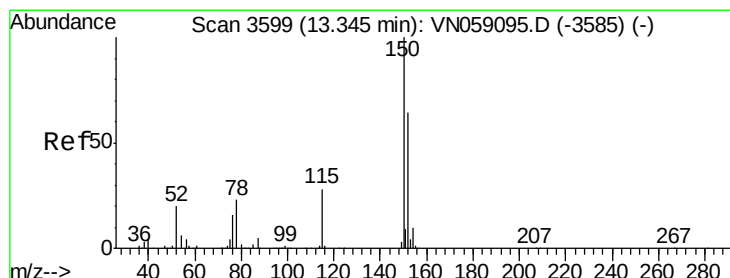
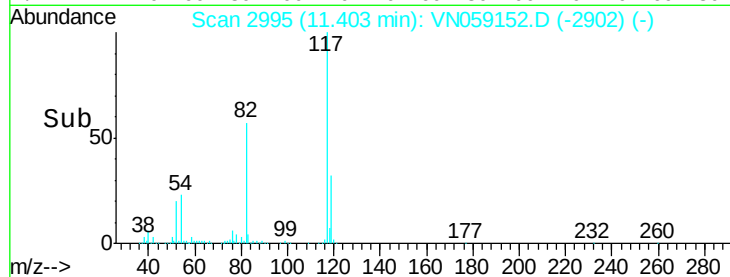
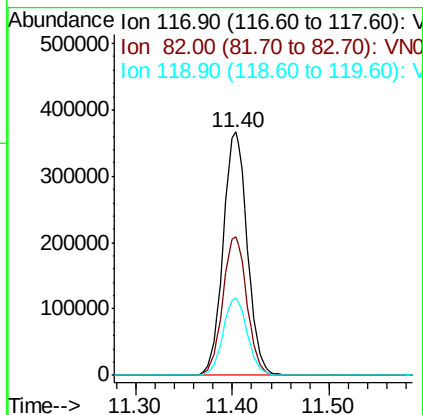
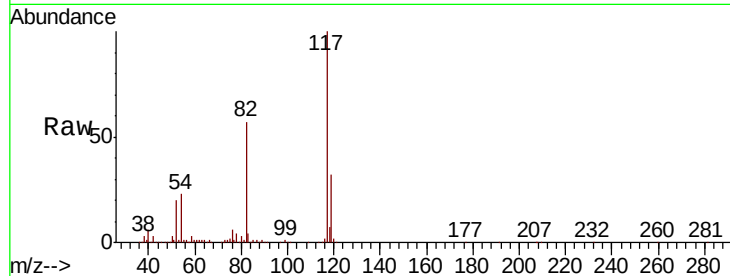




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2995  
Delta R.T. -0.00 min  
Lab File: VN059152.D  
Acq: 11 Nov 2019 11:56

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:117 Resp: 634035  
Ion Ratio Lower Upper  
117 100  
82 57.1 45.8 68.8  
119 31.5 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. -0.00 min  
Lab File: VN059152.D  
Acq: 11 Nov 2019 11:56

Tgt Ion:152 Resp: 226960  
Ion Ratio Lower Upper  
152 100  
115 59.6 29.4 88.2  
150 156.4 0.0 345.8

