

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032319\  
 Data File : VX008357.D  
 Acq On : 23 Mar 2019 18:10  
 Operator : JC/SP  
 Sample : K1937-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TB04-20190313

Quant Time: Mar 25 08:43:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032319W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 15:27:34 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 230609   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 403888   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 345717   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 145755   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65  | 170706   | 48.53 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.06% |      |
| 35) Dibromofluoromethane    | 5.50   | 113 | 124501   | 47.58 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.16% |      |
| 50) Toluene-d8              | 8.71   | 98  | 505109   | 48.80 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.60% |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 172437   | 45.38 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.76% |      |

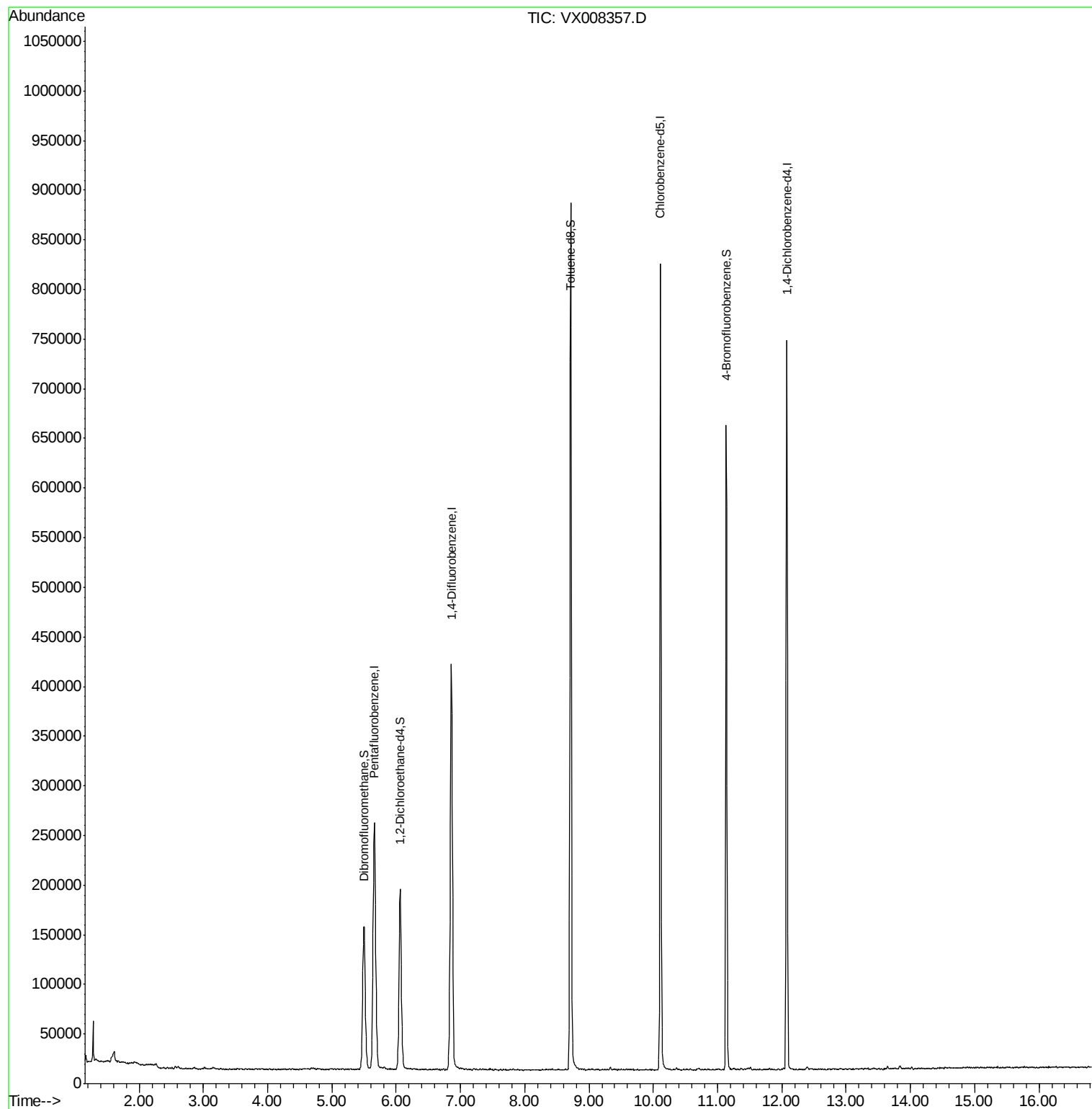
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032319W.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 23 15:27:34 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008357.D

Acq: 23 Mar 2019 18:10

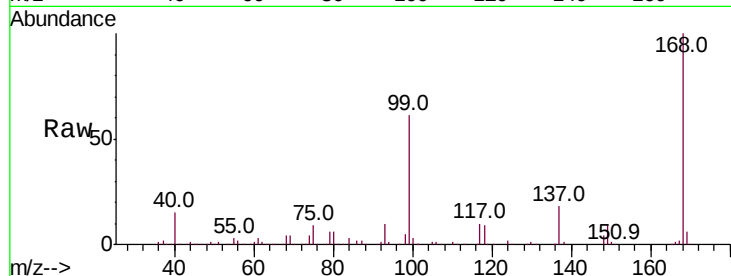
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TB04-20190313

Tot Ion:168 Resp: 230609

Ion Ratio Lower Upper

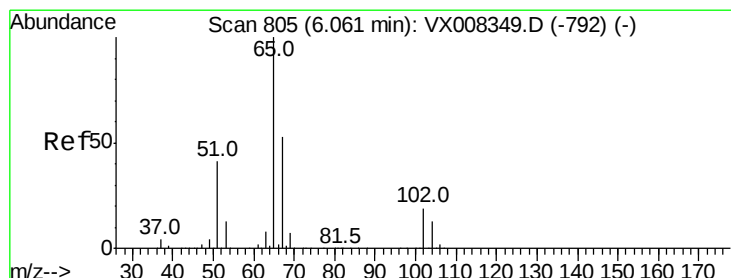
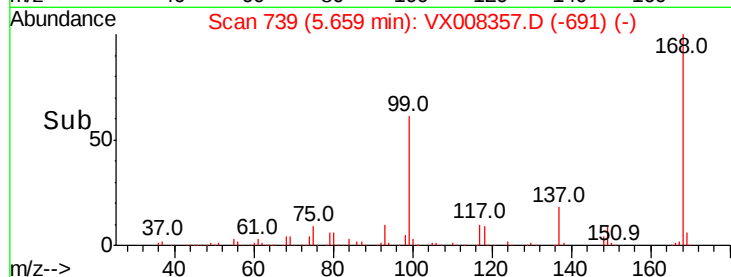
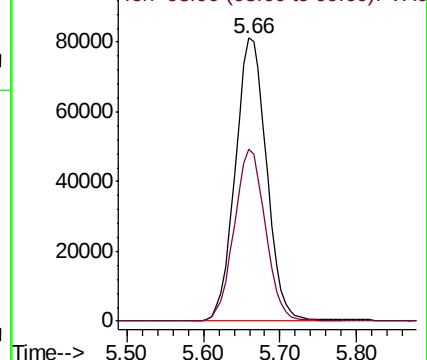
168 100

99 60.6 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.534 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008357.D

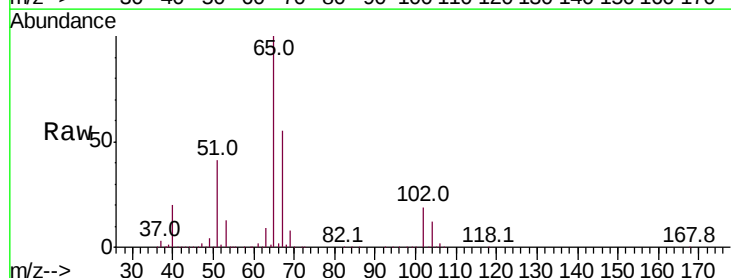
Acq: 23 Mar 2019 18:10

Tgt Ion: 65 Resp: 170706

Ion Ratio Lower Upper

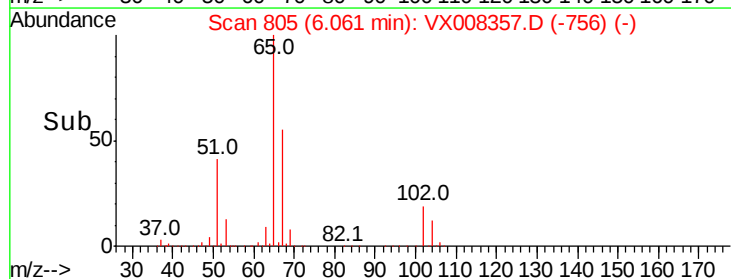
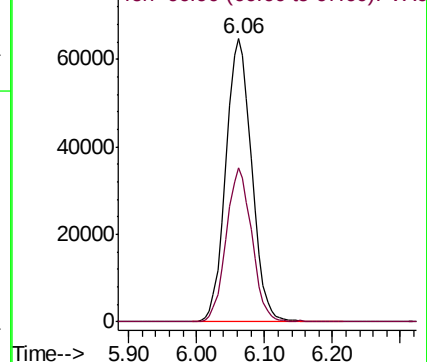
65 100

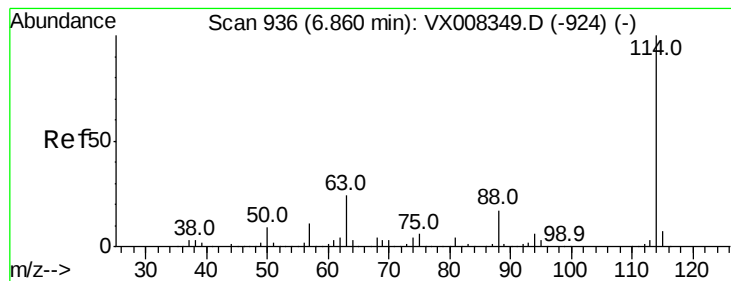
67 53.5 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008357.D

Acq: 23 Mar 2019 18:10

Instrument :

MSVOA\_X

ClientSampleId :

BP-TB04-20190313

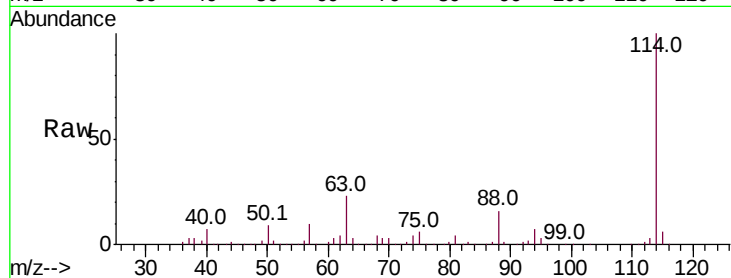
Tot Ion:114 Resp: 403888

Ion Ratio Lower Upper

114 100

63 23.2 0.0 39.8

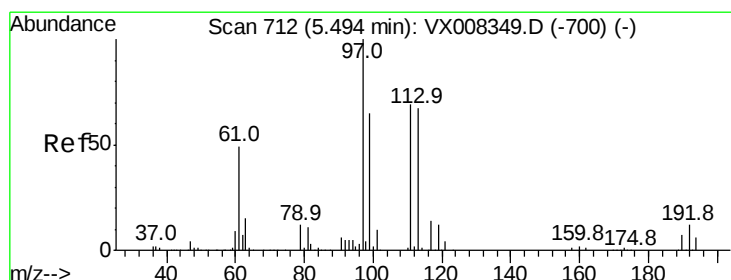
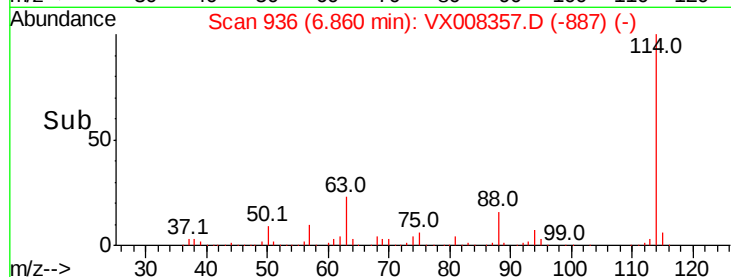
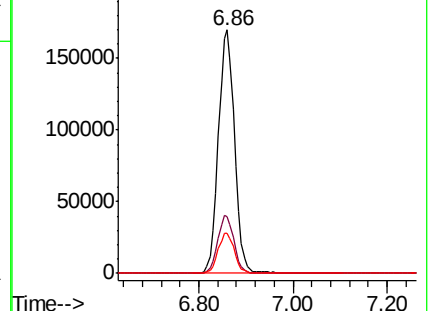
88 16.4 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.578 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008357.D

Acq: 23 Mar 2019 18:10

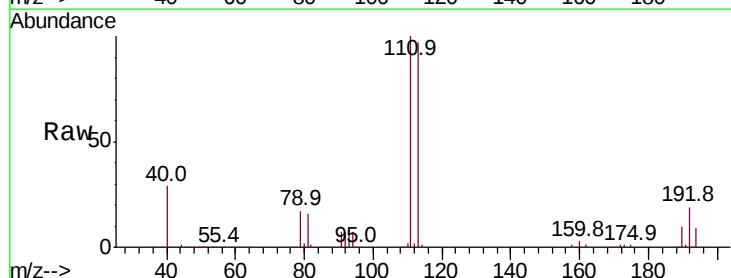
Tgt Ion:113 Resp: 124501

Ion Ratio Lower Upper

113 100

111 102.7 81.4 122.0

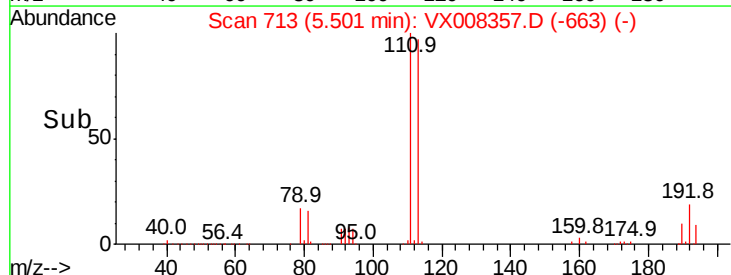
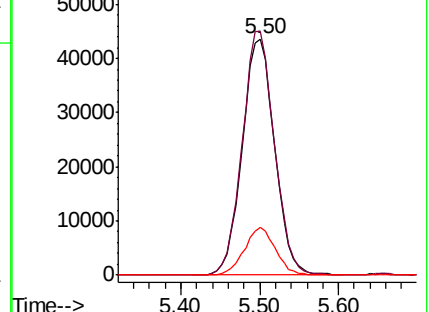
192 19.4 19.4 29.0#

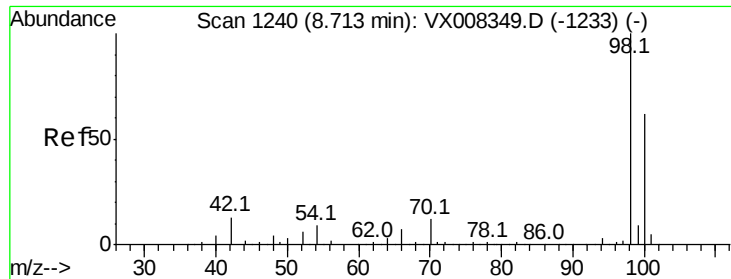


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

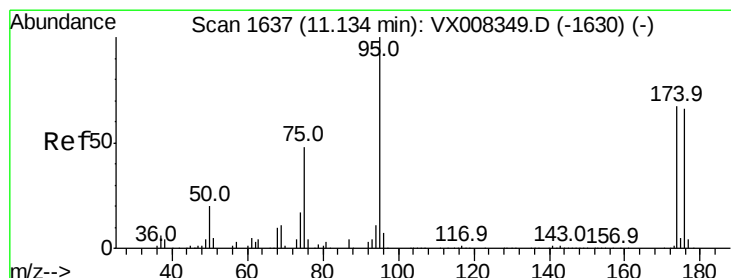
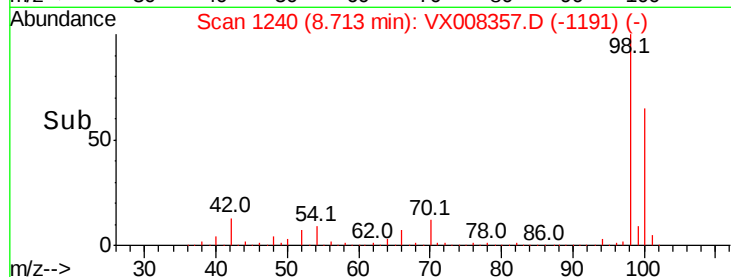
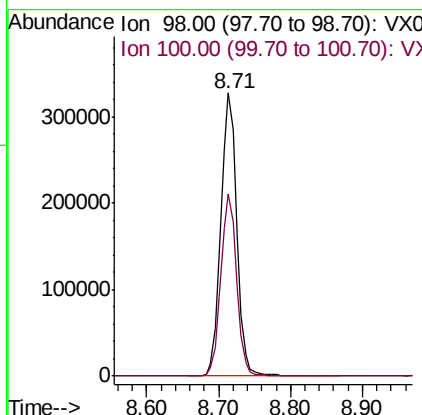
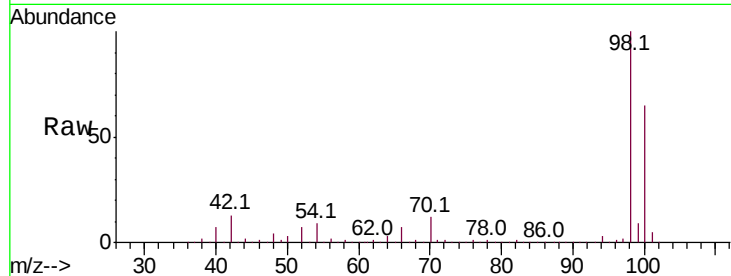




#50  
Toluene-d8  
Concen: 48.803 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX008357.D  
Acq: 23 Mar 2019 18:10

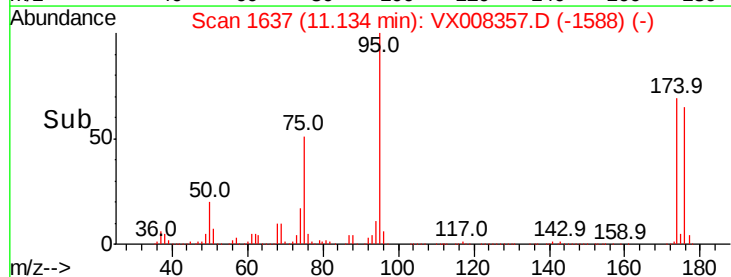
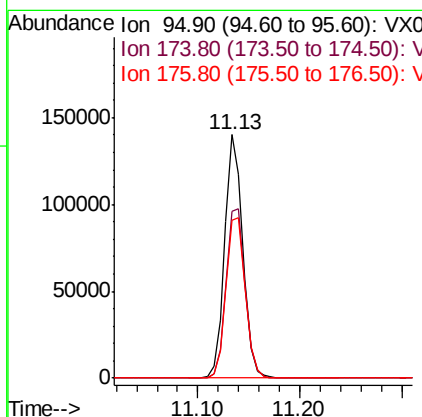
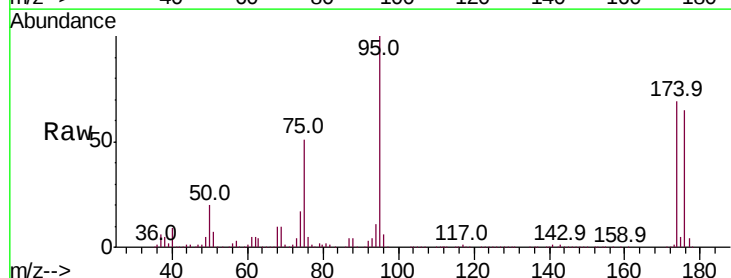
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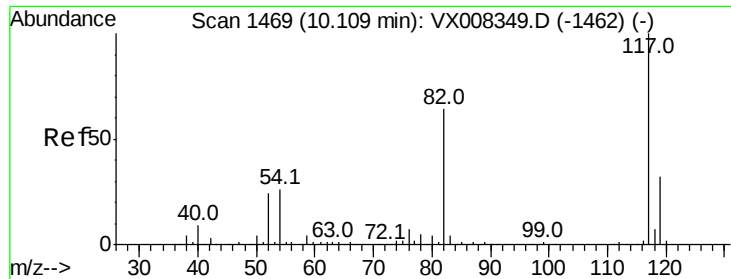
Tot Ion: 98 Resp: 505109  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.7 77.5



#62  
4-Bromofluorobenzene  
Concen: 45.376 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX008357.D  
Acq: 23 Mar 2019 18:10

Tgt Ion: 95 Resp: 172437  
Ion Ratio Lower Upper  
95 100  
174 73.3 0.0 182.8  
176 70.4 0.0 178.0

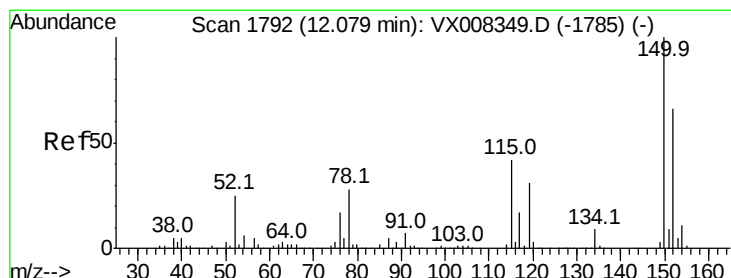
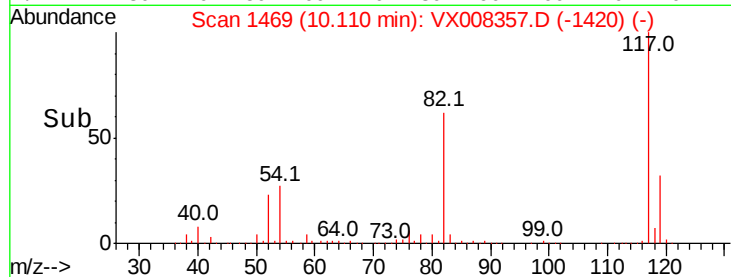
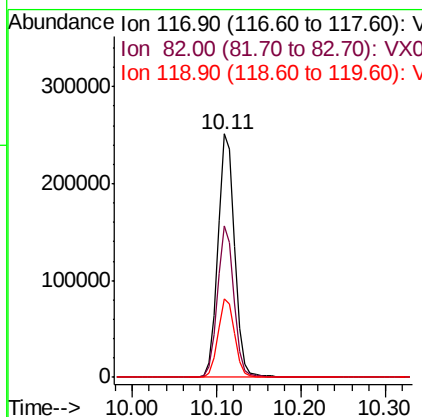
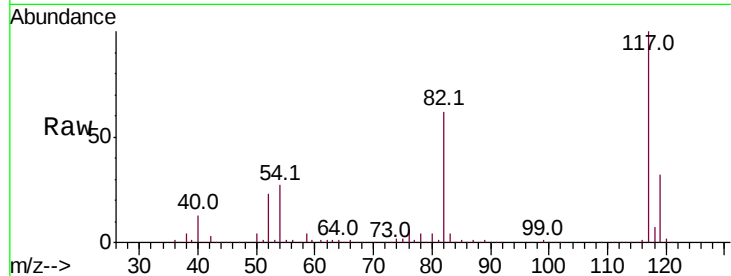




#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 10.11 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: VX008357.D  
 Acq: 23 Mar 2019 18:10

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TB04-20190313

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 62.1  | 44.3  | 66.5  |
| 119     | 32.2  | 25.3  | 37.9  |



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.08 min Scan# 1792  
 Delta R.T. 0.00 min  
 Lab File: VX008357.D  
 Acq: 23 Mar 2019 18:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 61.1  | 38.6  | 115.7 |
| 150     | 155.5 | 0.0   | 348.4 |

