

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060519\  
 Data File : VX010085.D  
 Acq On : 05 Jun 2019 18:25  
 Operator : JC/SP  
 Sample : K3190-22 10X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPS1-TT-MW3071-20190604

Quant Time: Jun 06 07:15:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 29 04:00:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 171668   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 274691   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 249823   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 115947   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 112655   | 46.46 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 92.92% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 81558    | 47.23 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 94.46% |          |
| 50) Toluene-d8              | 8.71  | 98   | 349375   | 49.82 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.64% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 119197   | 47.32 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 94.64% |          |

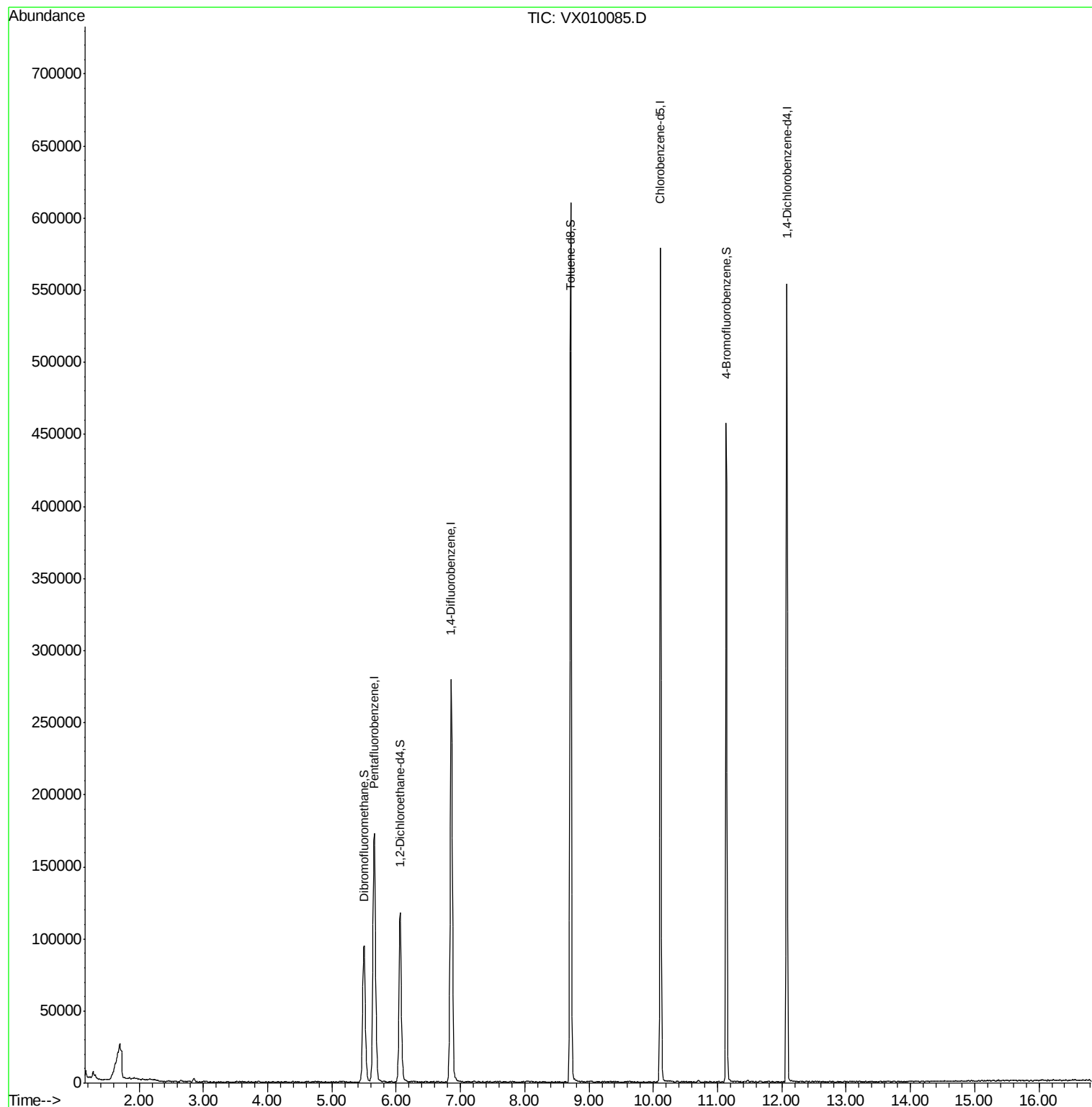
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

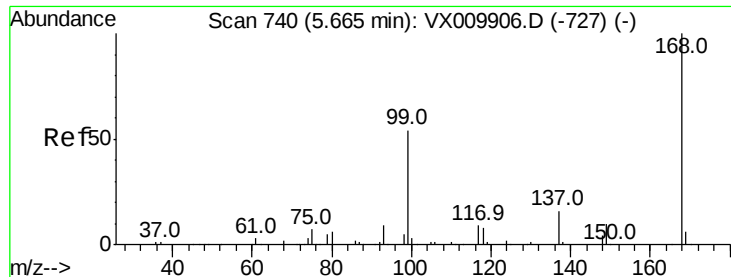
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
ClientSampleId :  
BPS1-TT-MW307I-20190604

Quant Time: Jun 06 07:15:27 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 29 04:00:56 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: VX010085.D

Acq: 05 Jun 2019 18:25

Instrument :

MSVOA\_X

ClientSampleId :

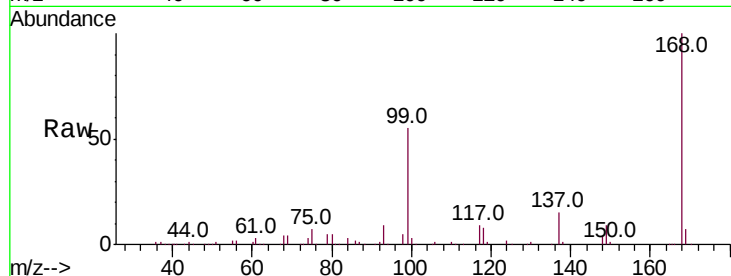
BPS1-TT-MW307I-20190604

Tot Ion:168 Resp: 171668

Ion Ratio Lower Upper

168 100

99 55.1 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

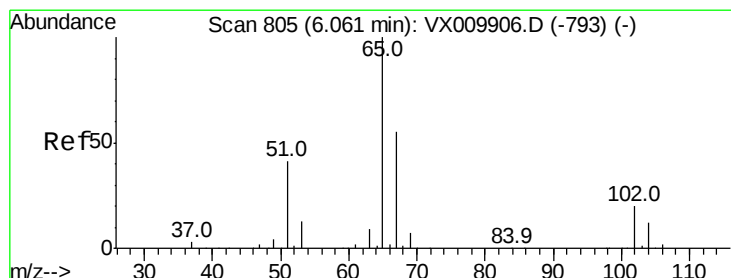
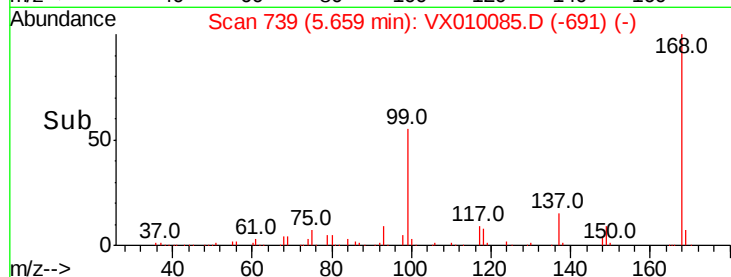
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 46.456 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010085.D

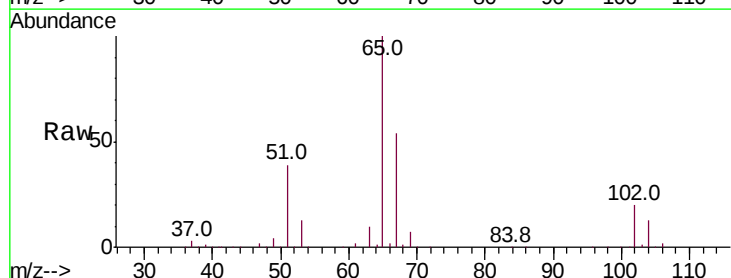
Acq: 05 Jun 2019 18:25

Tgt Ion: 65 Resp: 112655

Ion Ratio Lower Upper

65 100

67 52.9 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

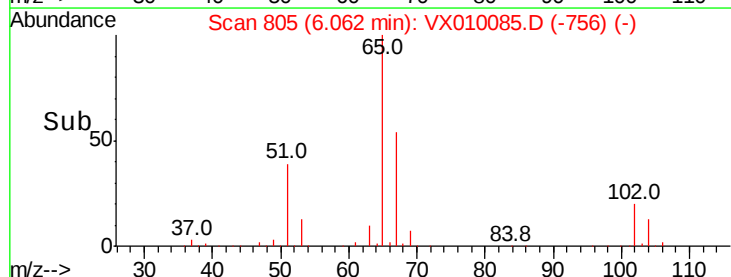
30000

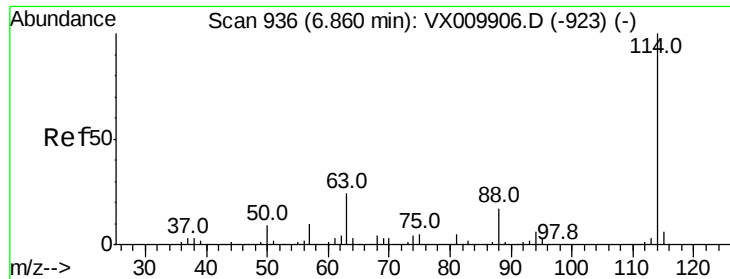
20000

10000

0

Time--> 5.90 6.00 6.10 6.20

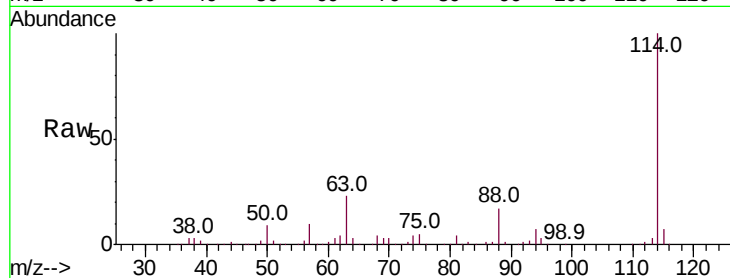




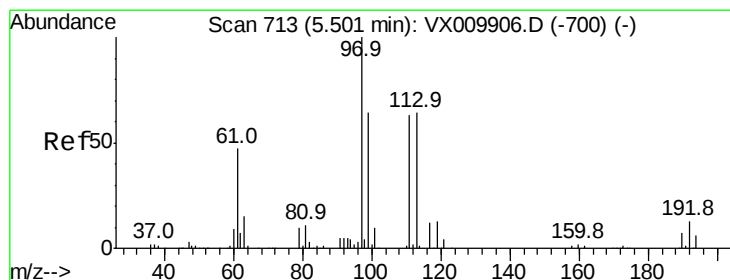
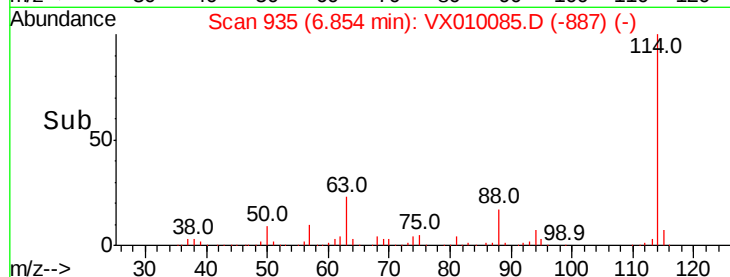
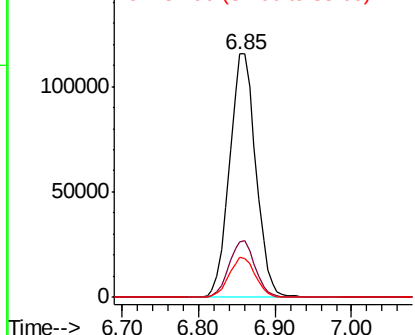
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. -0.01 min  
 Lab File: VX010085.D  
 Acq: 05 Jun 2019 18:25

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPS1-TT-MW3071-20190604

Tot Ion:114 Resp: 274691  
 Ion Ratio Lower Upper  
 114 100  
 63 22.8 0.0 47.4  
 88 16.6 0.0 33.0

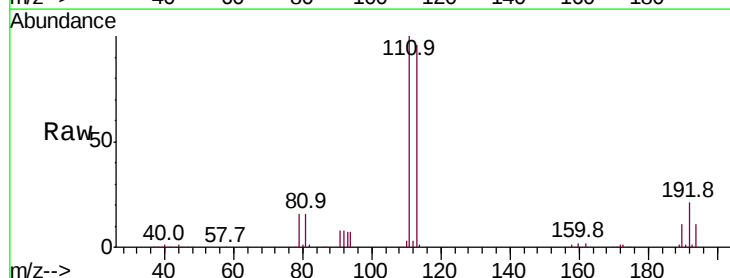


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

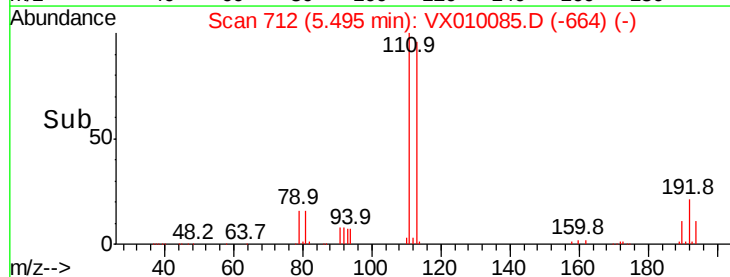
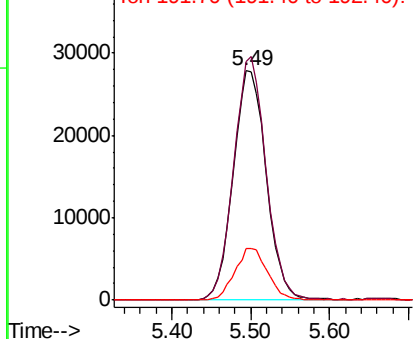


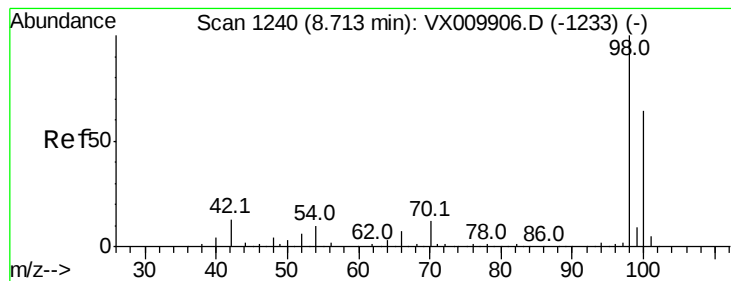
#35  
 Dibromofluoromethane  
 Concen: 47.226 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. -0.01 min  
 Lab File: VX010085.D  
 Acq: 05 Jun 2019 18:25

Tgt Ion:113 Resp: 81558  
 Ion Ratio Lower Upper  
 113 100  
 111 103.6 82.2 123.2  
 192 22.4 17.1 25.7



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: 49.819 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010085.D

Acq: 05 Jun 2019 18:25

Instrument :

MSVOA\_X

ClientSampleId :

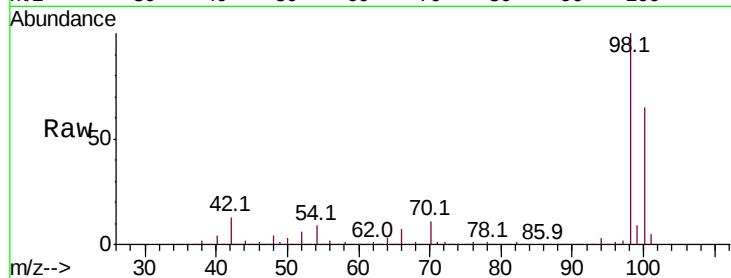
BPS1-TT-MW307I-20190604

Tot Ion: 98 Resp: 349375

Ion Ratio Lower Upper

98 100

100 64.2 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

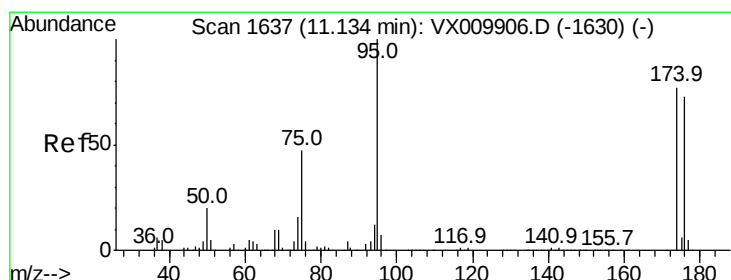
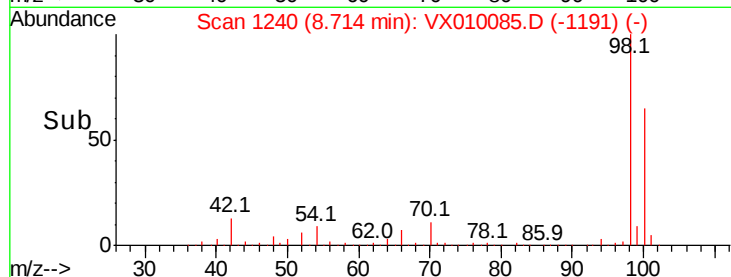
100000

50000

0

8.60 8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 47.321 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010085.D

Acq: 05 Jun 2019 18:25

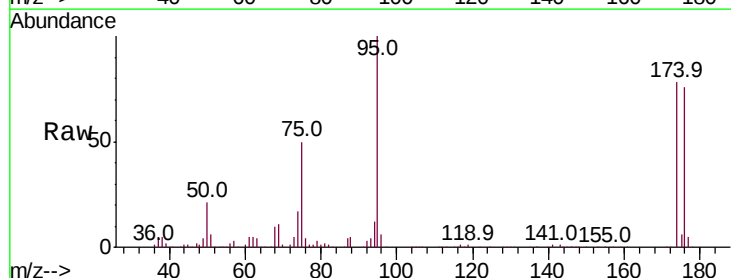
Tgt Ion: 95 Resp: 119197

Ion Ratio Lower Upper

95 100

174 83.7 0.0 160.4

176 81.4 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

60000

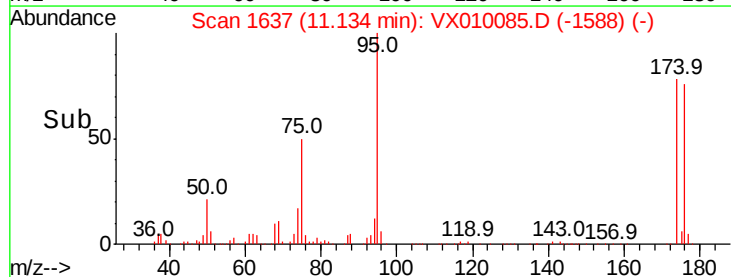
40000

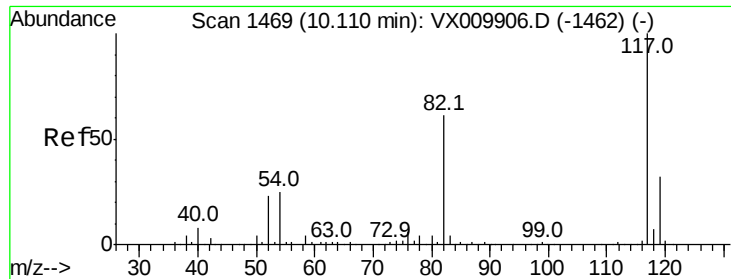
20000

0

11.10 11.20

Time-->

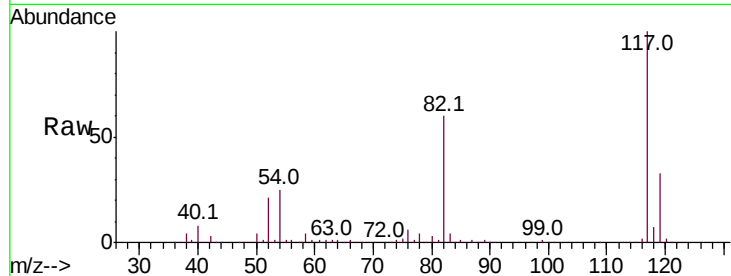




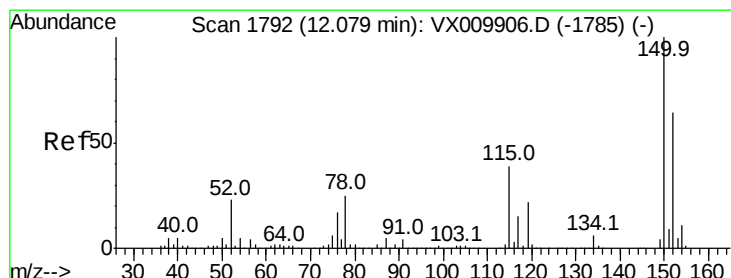
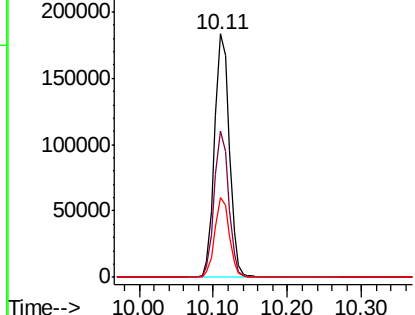
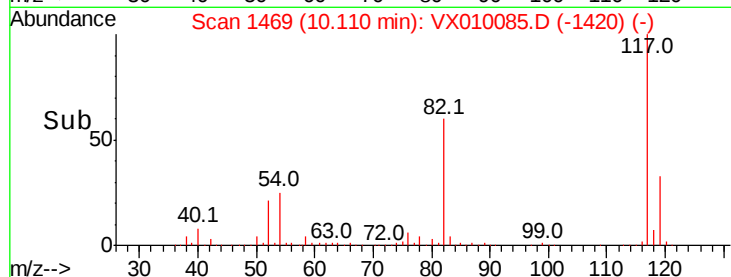
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX010085.D  
Acq: 05 Jun 2019 18:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
BPS1-TT-MW3071-20190604

Tot Ion:117 Resp: 249823  
Ion Ratio Lower Upper  
117 100  
82 60.0 49.2 73.8  
119 33.0 25.2 37.8

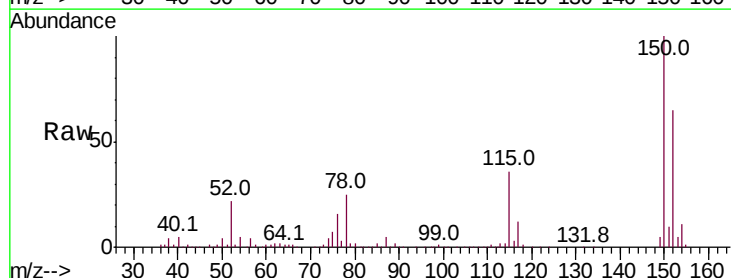


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX010085.D  
Acq: 05 Jun 2019 18:25

Tgt Ion:152 Resp: 115947  
Ion Ratio Lower Upper  
152 100  
115 57.7 41.4 124.2  
150 155.1 0.0 345.2



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

