

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\  
 Data File : VX009705.D  
 Acq On : 18 May 2019 09:23  
 Operator : JC/SP  
 Sample : K2901-14  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 59 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-15B\_R2

Quant Time: May 20 04:41:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

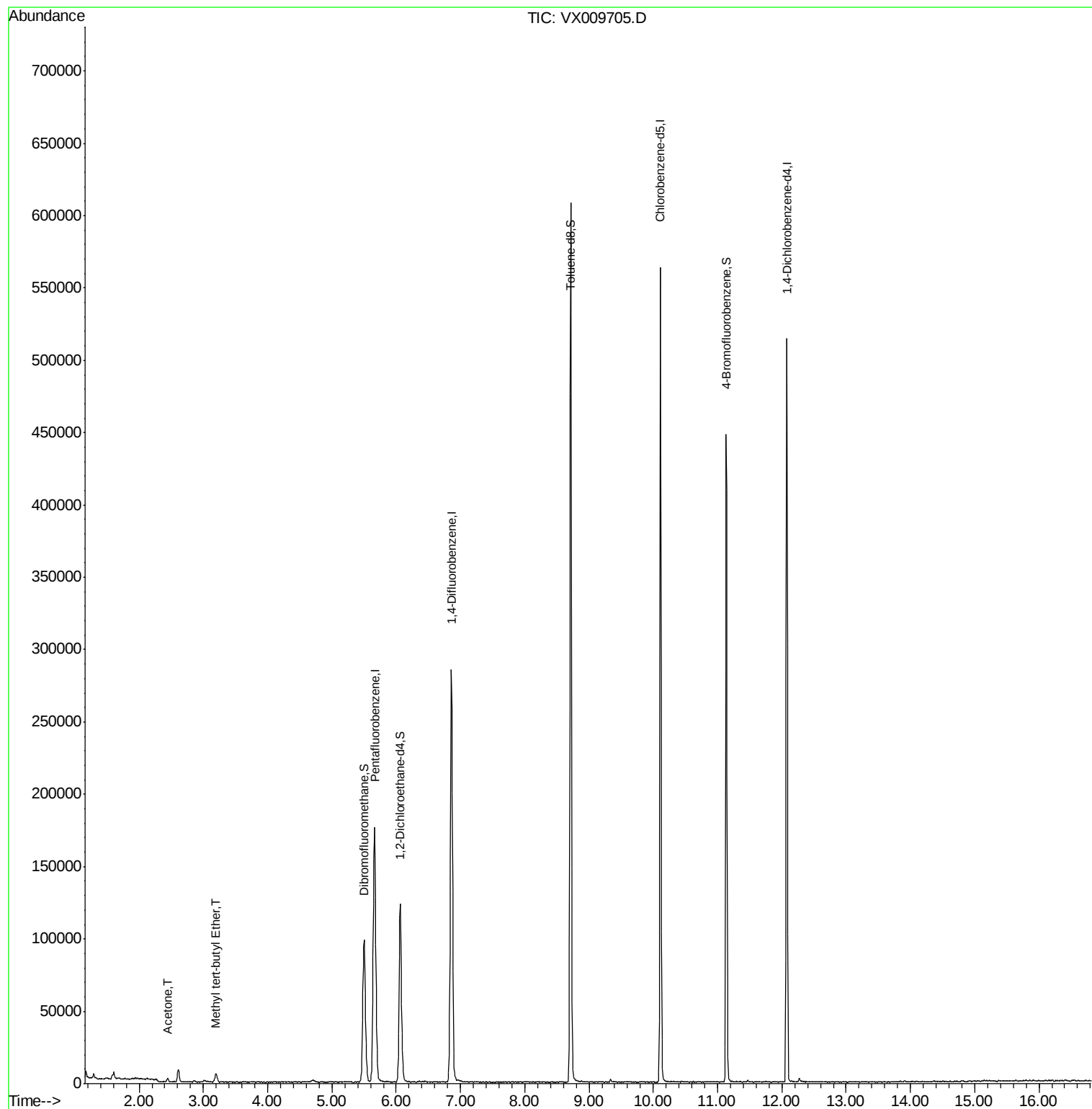
| Internal Standards          | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 5.67   | 168  | 171106   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86   | 114  | 275319   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 10.11  | 117  | 245500   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08  | 152  | 107052   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |        |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65   | 116705   | 49.96 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 99.92% |          |
| 35) Dibromofluoromethane    | 5.50   | 113  | 84695    | 48.94 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 97.88% |          |
| 50) Toluene-d8              | 8.71   | 98   | 349211   | 49.98 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 99.96% |          |
| 62) 4-Bromofluorobenzene    | 11.13  | 95   | 117575   | 46.31 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 92.62% |          |
| Target Compounds            |        |      |          |       |        |          |
| 16) Acetone                 | 2.44   | 43   | 3194     | 2.547 | ug/l # | 84       |
| 19) Methyl tert-butyl Ether | 3.20   | 73   | 5720     | 0.917 | ug/l   | 92       |

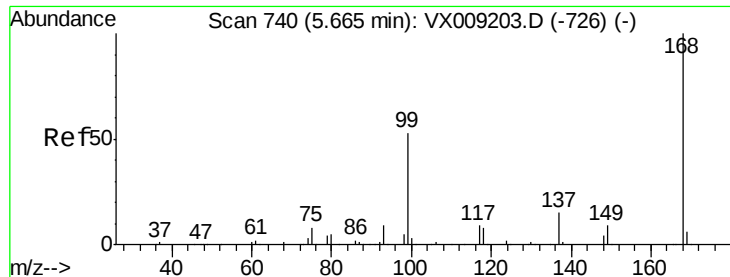
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 07:31:15 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009705.D

Acq: 18 May 2019 09:23

Instrument :

MSVOA\_X

ClientSampleId :

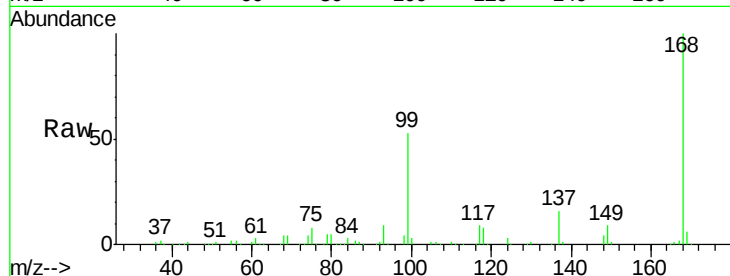
MW-15B\_R2

Tot Ion:168 Resp: 171106

Ion Ratio Lower Upper

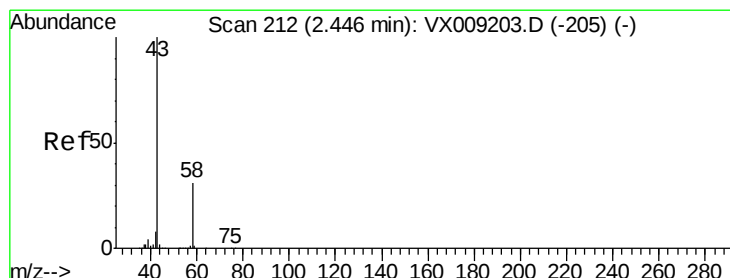
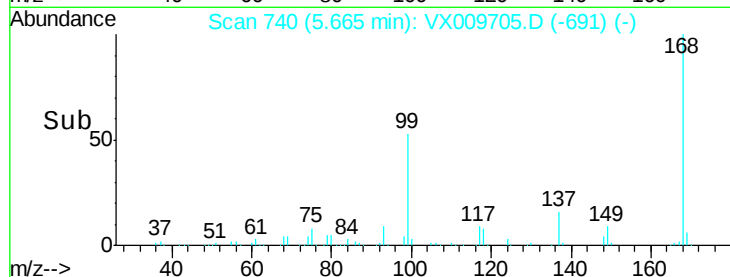
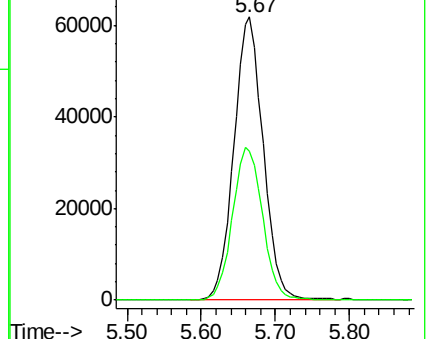
168 100

99 52.8 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#16

Acetone

Concen: 2.547 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009705.D

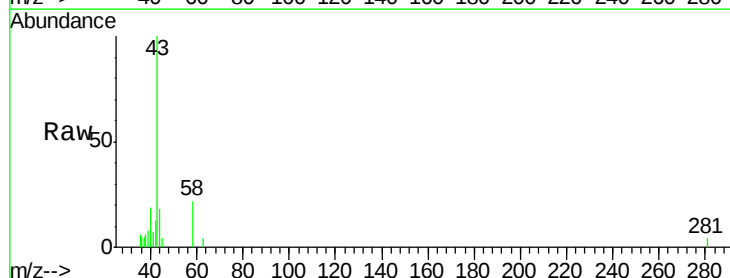
Acq: 18 May 2019 09:23

Tgt Ion: 43 Resp: 3194

Ion Ratio Lower Upper

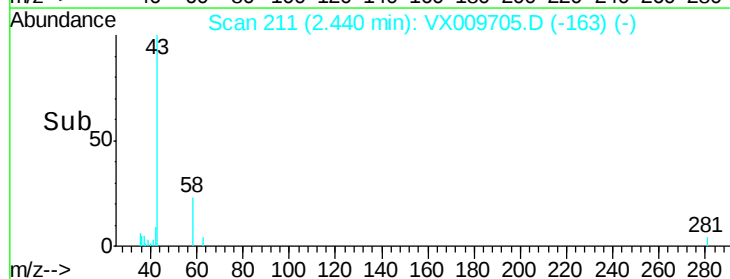
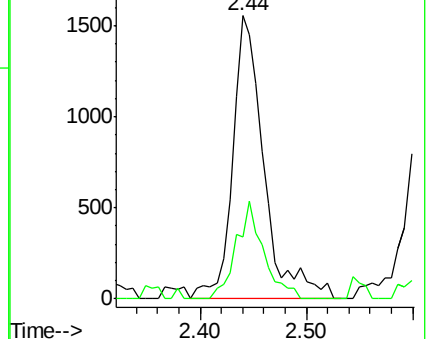
43 100

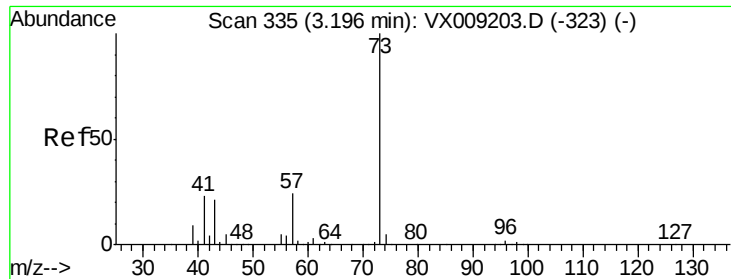
58 22.1 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

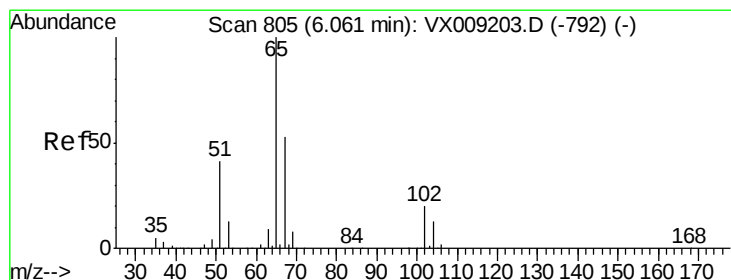
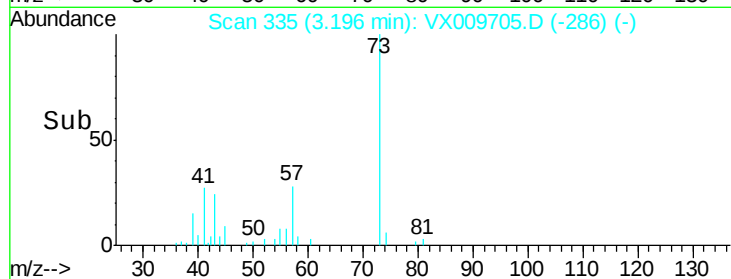
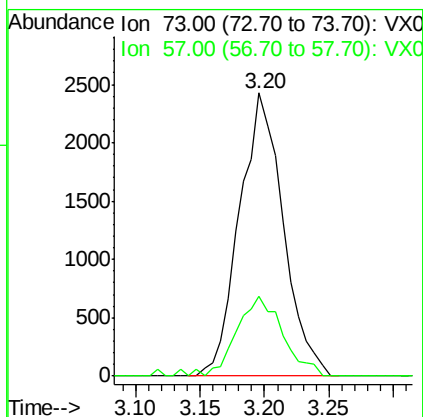
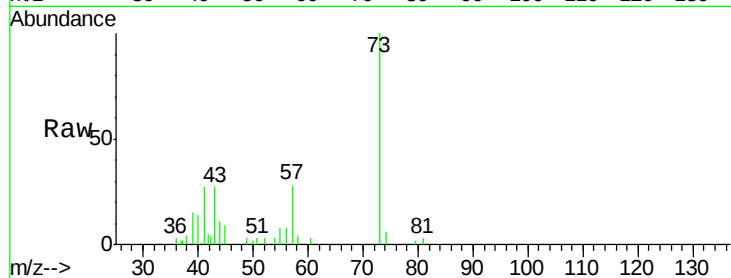




#19  
Methvl tert-butvl Ether  
Concen: 0.917 ug/l  
RT: 3.20 min Scan# 335  
Delta R.T. -0.00 min  
Lab File: VX009705.D  
Acq: 18 May 2019 09:23

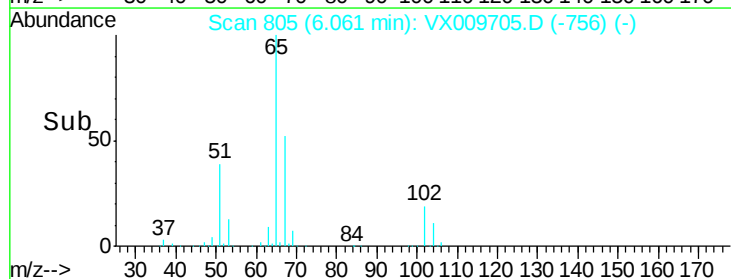
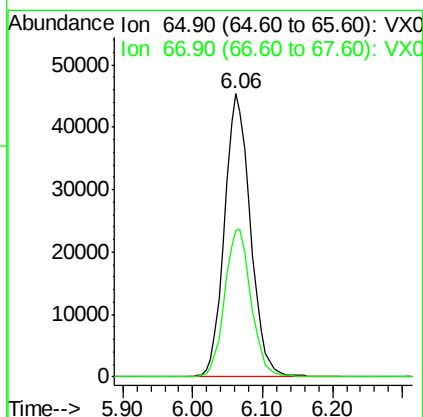
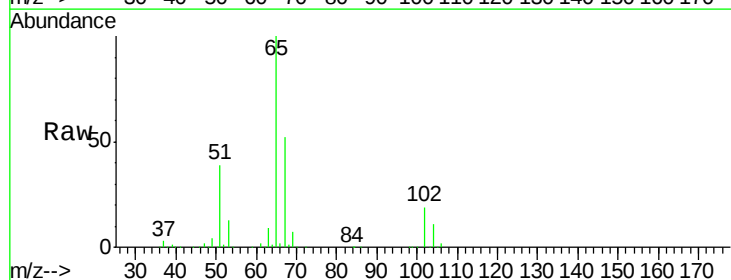
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-15B\_R2

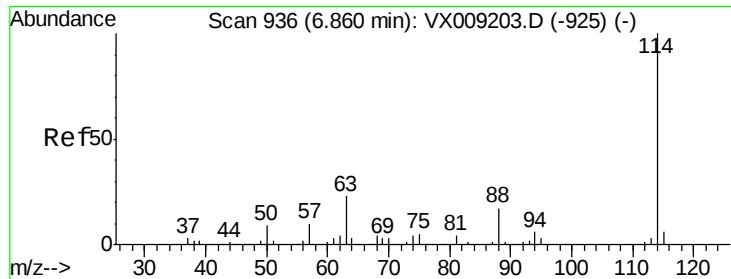
Tot Ion: 73 Resp: 5720  
Ion Ratio Lower Upper  
73 100  
57 28.1 19.3 28.9



#33  
1,2-Dichloroethane-d4  
Concen: 49.964 ug/l  
RT: 6.06 min Scan# 805  
Delta R.T. -0.00 min  
Lab File: VX009705.D  
Acq: 18 May 2019 09:23

Tgt Ion: 65 Resp: 116705  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 106.6

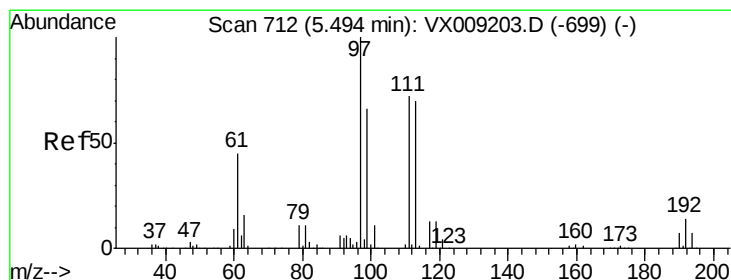
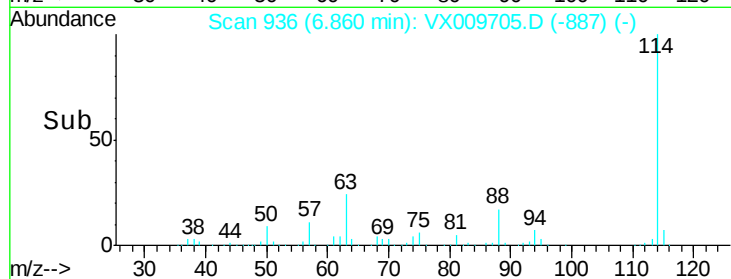
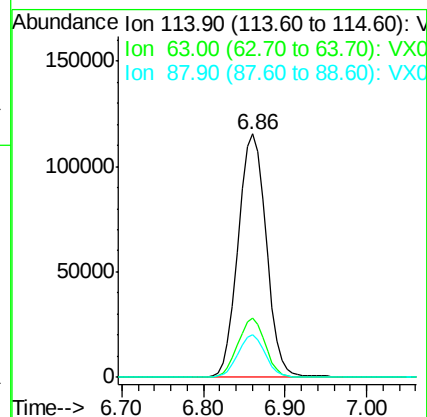
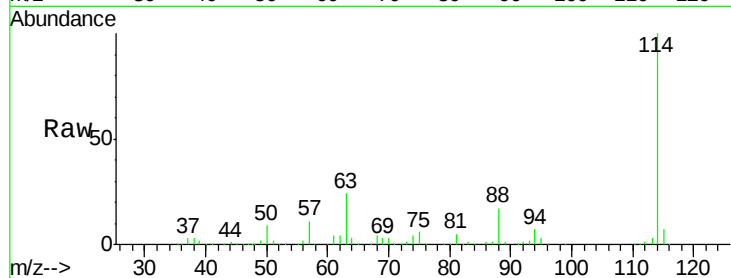




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX009705.D  
 Acq: 18 May 2019 09:23

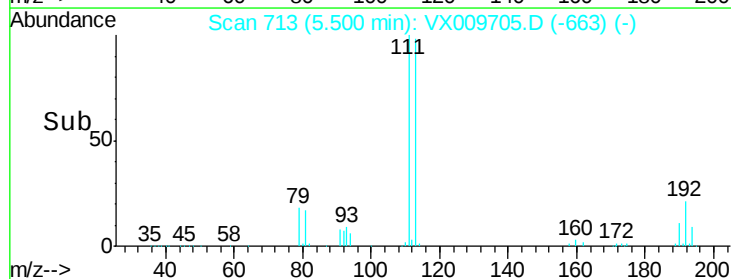
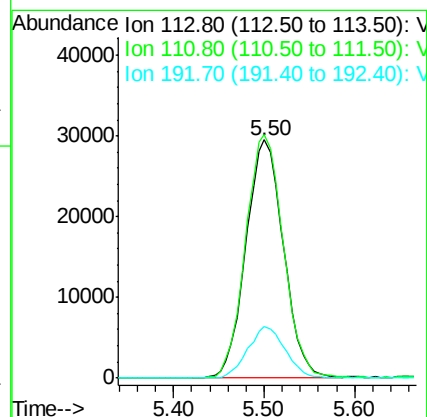
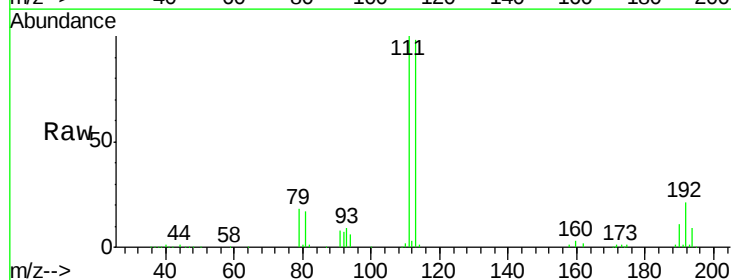
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-15B\_R2

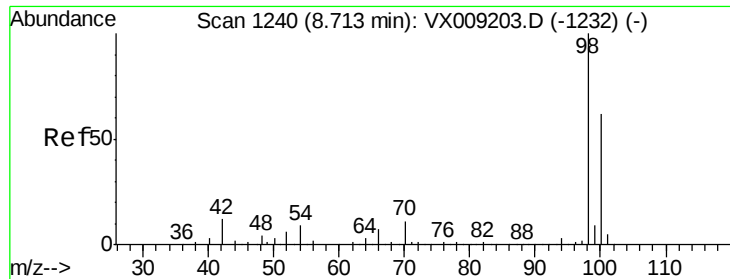
Tot Ion:114 Resp: 275319  
 Ion Ratio Lower Upper  
 114 100  
 63 24.1 0.0 45.6  
 88 17.3 0.0 33.2



#35  
 Dibromofluoromethane  
 Concen: 48.935 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.01 min  
 Lab File: VX009705.D  
 Acq: 18 May 2019 09:23

Tgt Ion:113 Resp: 84695  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 82.8 124.2  
 192 21.6 17.0 25.6





#50

Toluene-d8

Concen: 49.976 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009705.D

Acq: 18 May 2019 09:23

Instrument :

MSVOA\_X

ClientSampled :

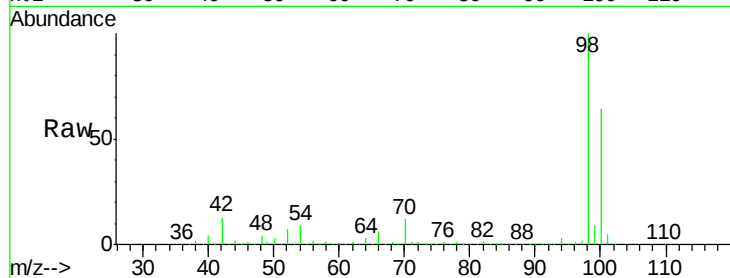
MW-15B\_R2

Tot Ion: 98 Resp: 349211

Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

250000

200000

150000

100000

50000

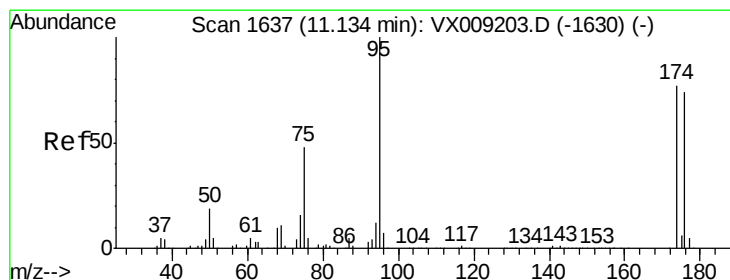
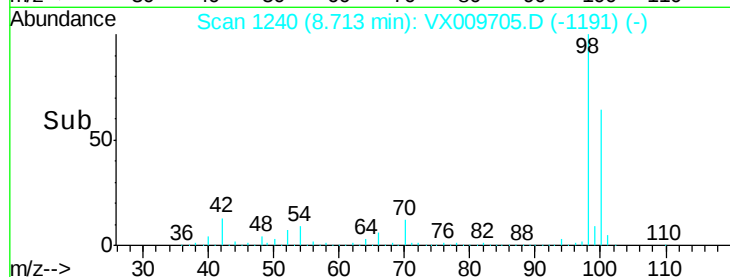
0

8.60

8.70

8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 46.308 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009705.D

Acq: 18 May 2019 09:23

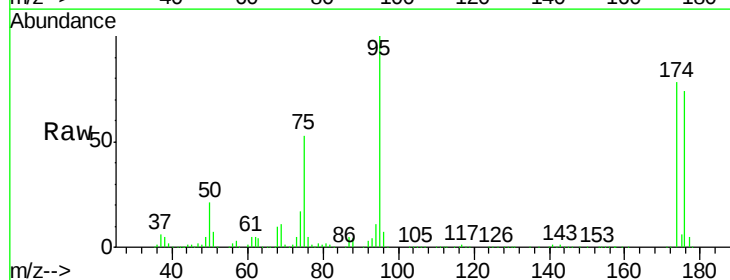
Tgt Ion: 95 Resp: 117575

Ion Ratio Lower Upper

95 100

174 81.3 0.0 161.6

176 79.4 0.0 159.2



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

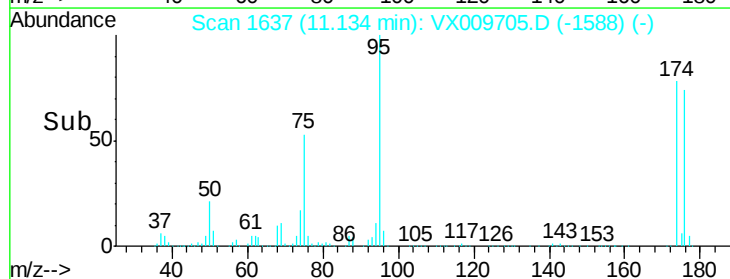
20000

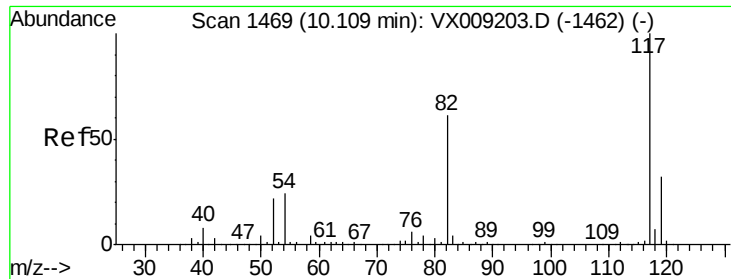
0

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: VX009705.D

Acq: 18 May 2019 09:23

Instrument :

MSVOA\_X

ClientSampleId :

MW-15B\_R2

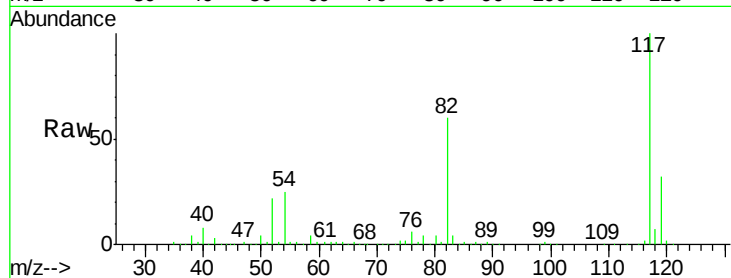
Tot Ion:117 Resp: 245500

Ion Ratio Lower Upper

117 100

82 59.9 48.8 73.2

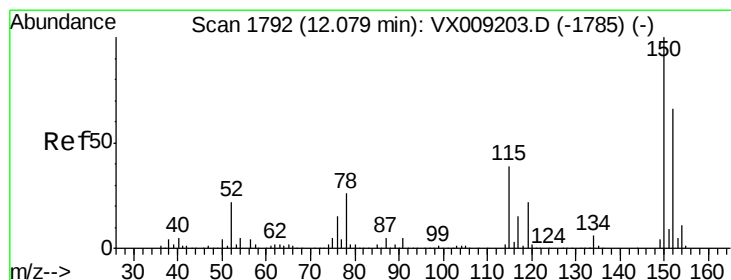
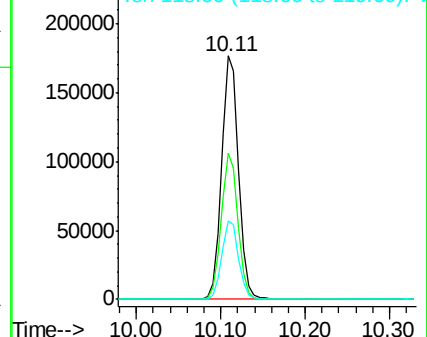
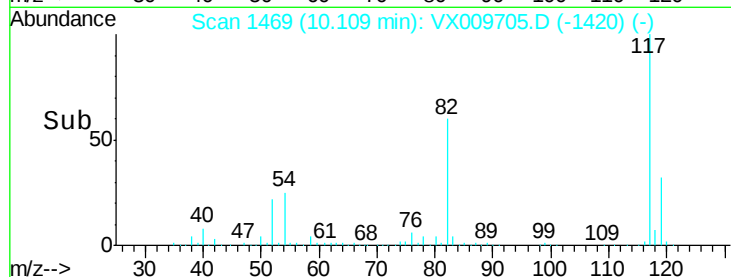
119 32.4 25.8 38.6



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: VX009705.D

Acq: 18 May 2019 09:23

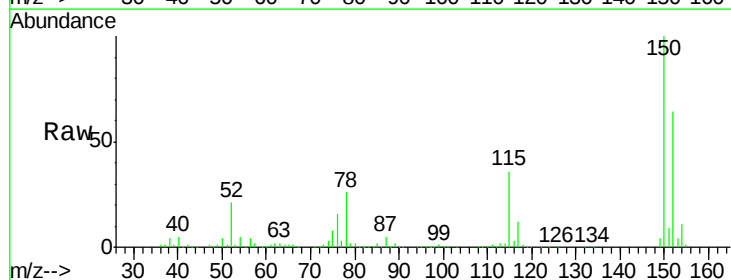
Tgt Ion:152 Resp: 107052

Ion Ratio Lower Upper

152 100

115 58.0 41.2 123.6

150 156.5 0.0 346.4



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

