

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011720\  
 Data File : VX014659.D  
 Acq On : 17 Jan 2020 16:54  
 Operator : JC/SP  
 Sample : L1162-09  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MH-719

Quant Time: Jan 18 06:02:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 07 15:54:41 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 435272   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 670981   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 597452   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 264258   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 247200   | 50.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 101.74% |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 203515   | 50.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.22% |          |
| 50) Toluene-d8              | 8.71  | 98   | 790733   | 50.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.34% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 257079   | 44.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 88.86%  |          |

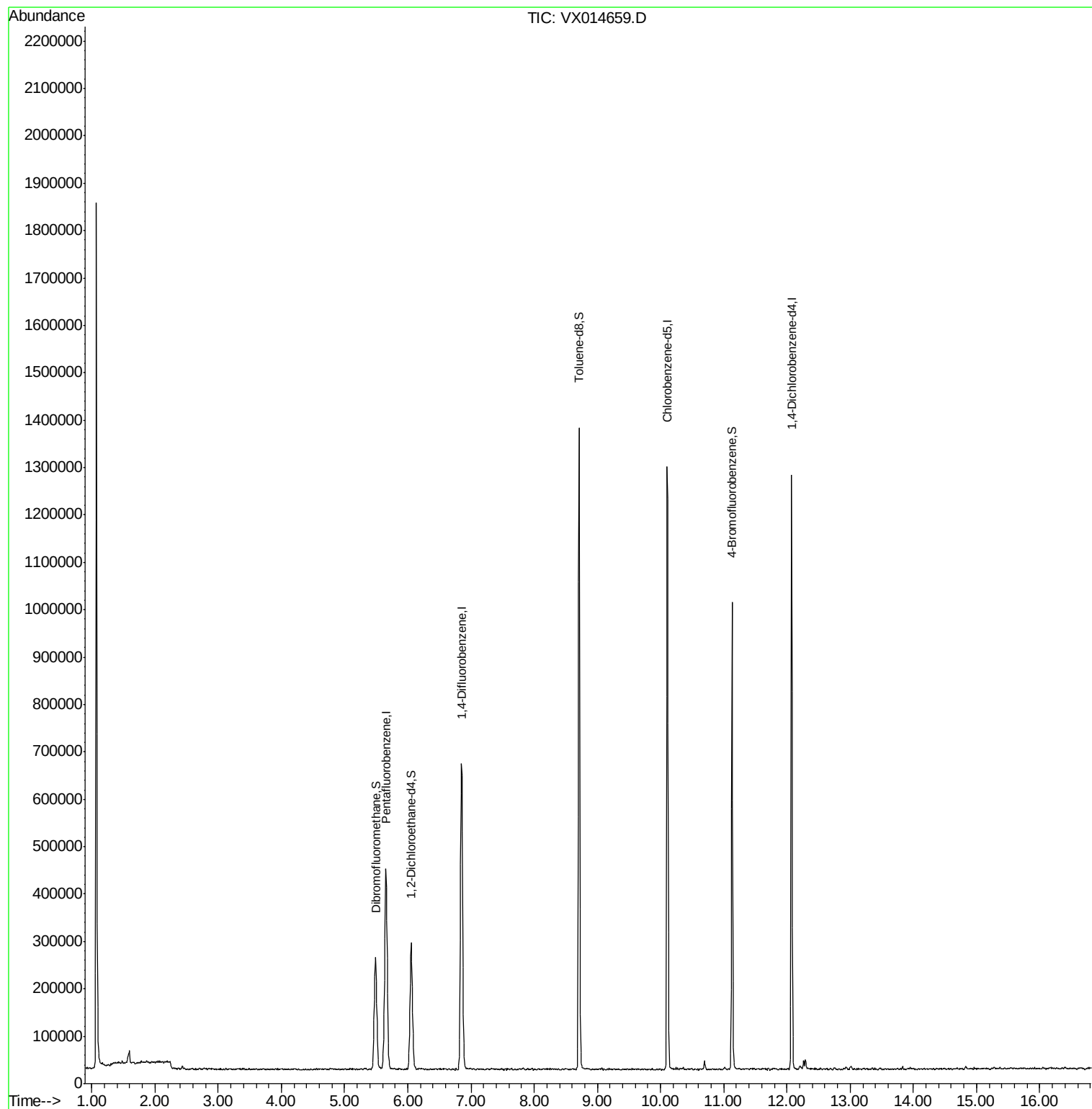
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

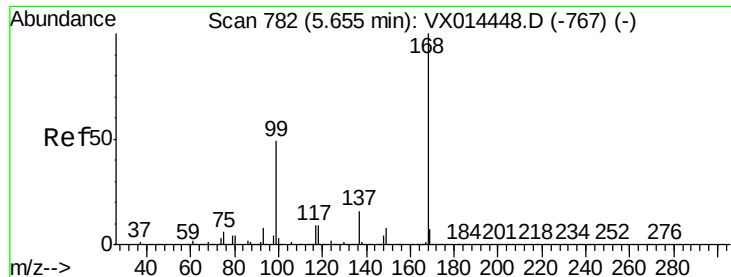
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 07 15:54:41 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

Instrument :

MSVOA\_X

ClientSampleId :

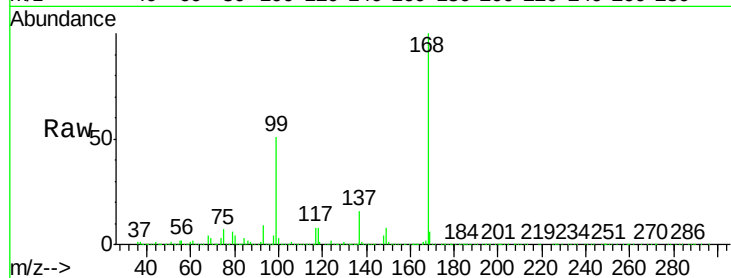
MH-719

Tot Ion:168 Resp: 435272

Ion Ratio Lower Upper

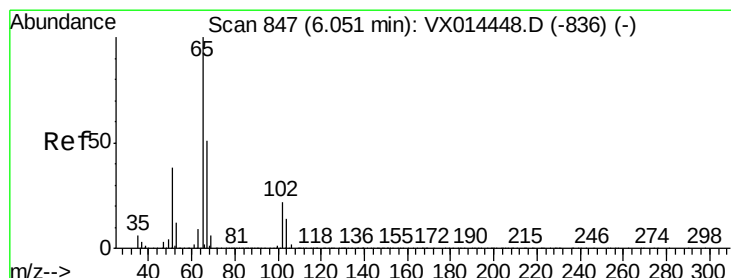
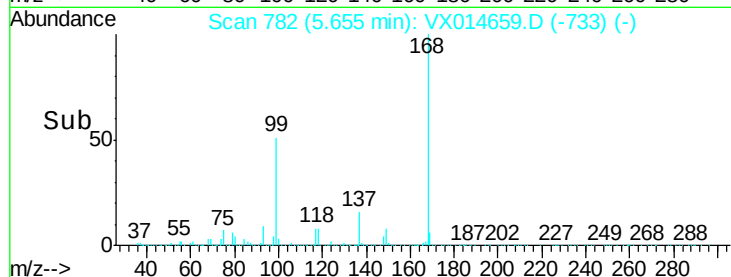
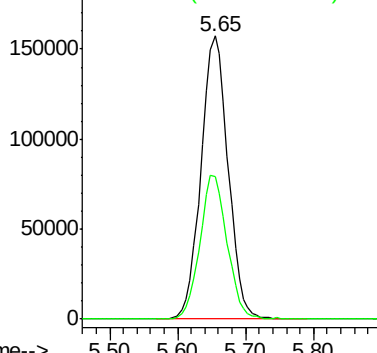
168 100

99 50.4 39.2 58.8



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: 50.874 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014659.D

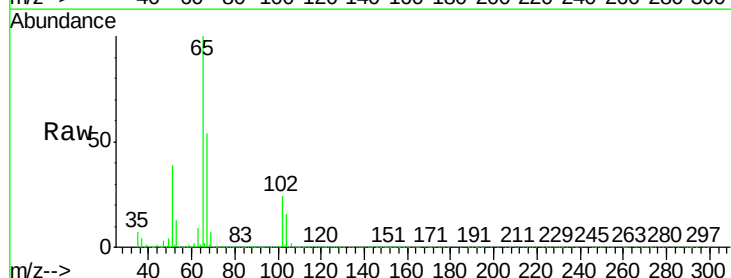
Acq: 17 Jan 2020 16:54

Tgt Ion: 65 Resp: 247200

Ion Ratio Lower Upper

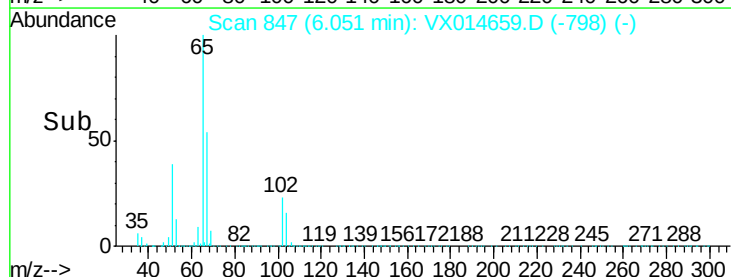
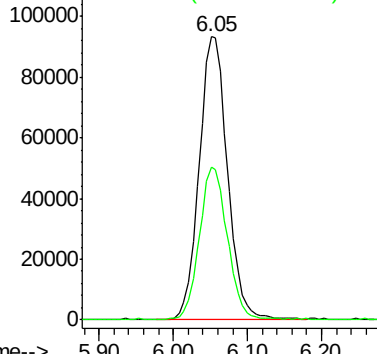
65 100

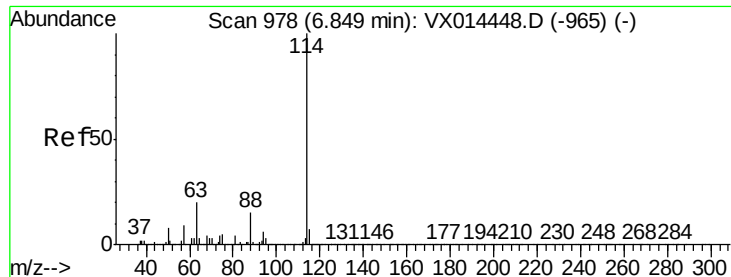
67 53.6 0.0 106.2



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# 979

Delta R.T. 0.01 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

Instrument :

MSVOA\_X

ClientSampleId :

MH-719

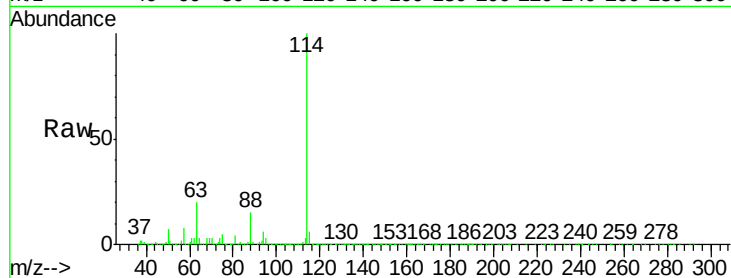
Tot Ion:114 Resp: 670981

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

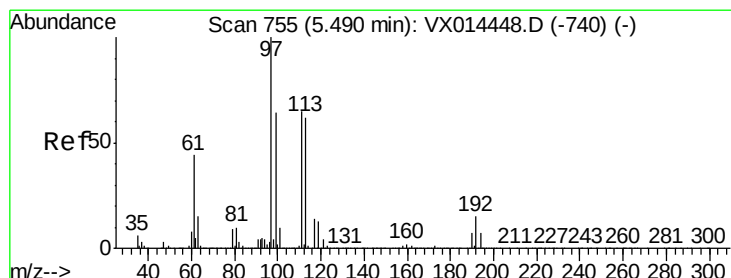
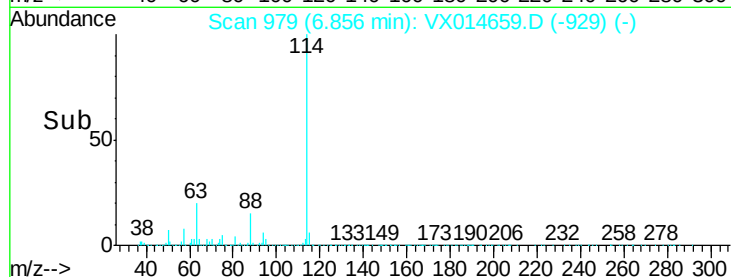
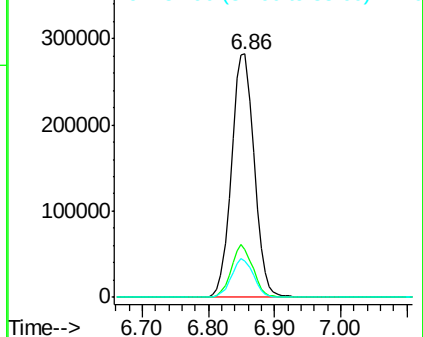
88 15.0 0.0 30.8



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: 50.105 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

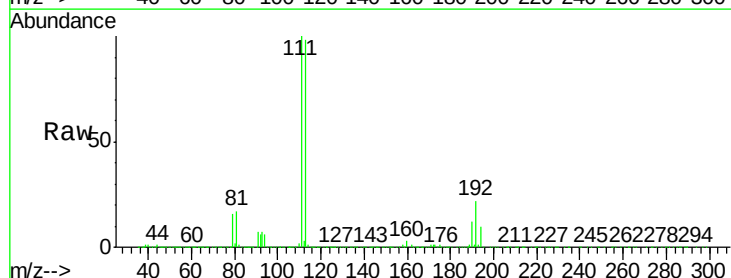
Tgt Ion:113 Resp: 203515

Ion Ratio Lower Upper

113 100

111 103.5 81.5 122.3

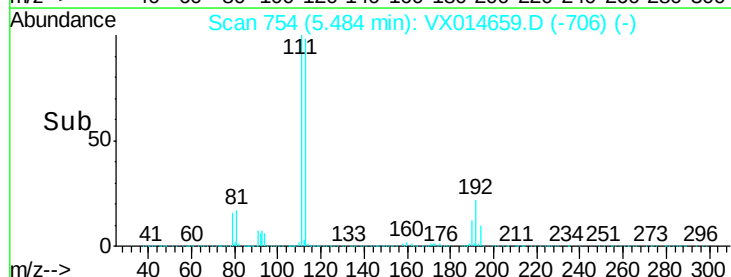
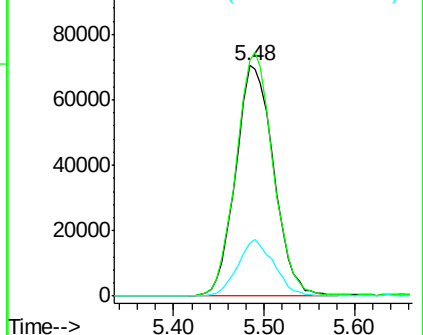
192 23.7 19.2 28.8

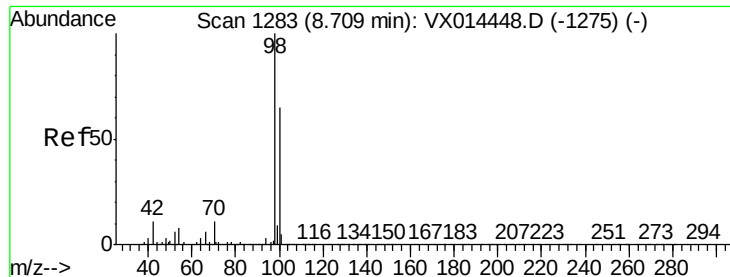


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 50.166 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

Instrument :

MSVOA\_X

ClientSampled :

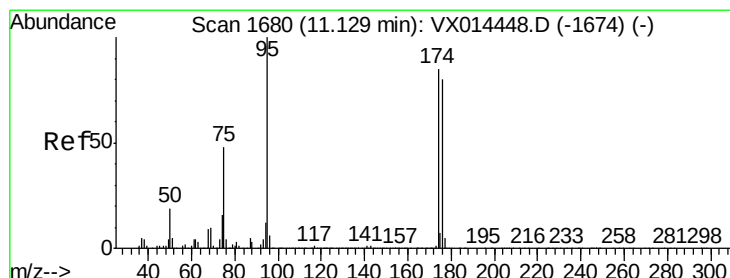
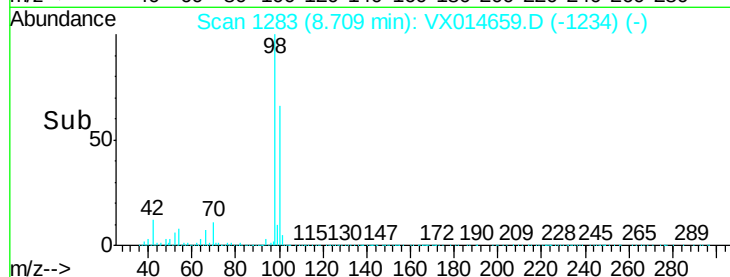
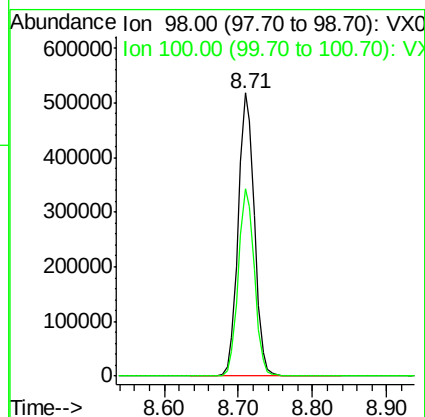
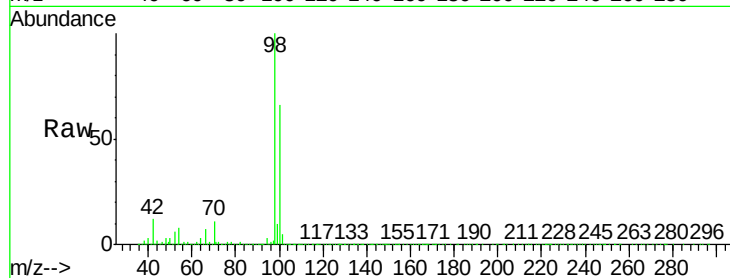
MH-719

Tot Ion: 98 Resp: 790733

Ion Ratio Lower Upper

98 100

100 66.1 53.2 79.8



#62

4-Bromofluorobenzene

Concen: 44.427 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

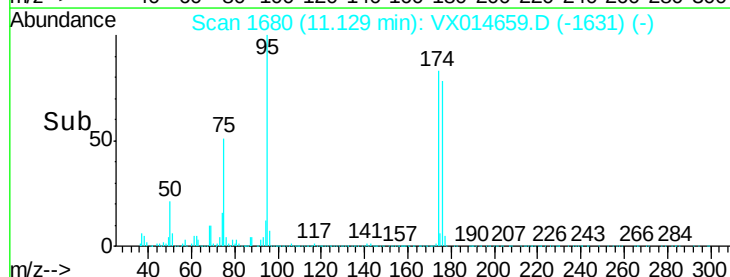
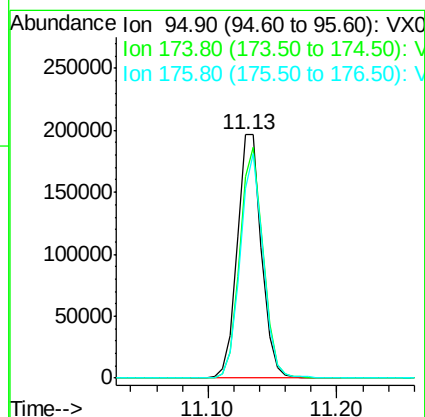
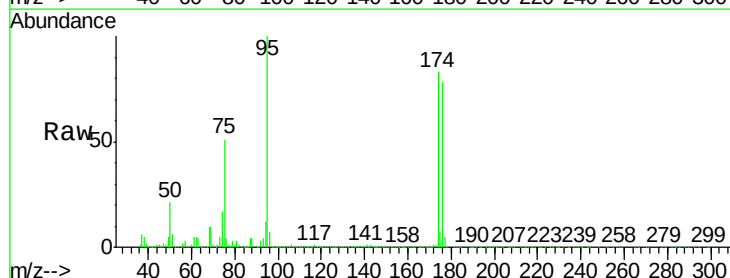
Tgt Ion: 95 Resp: 257079

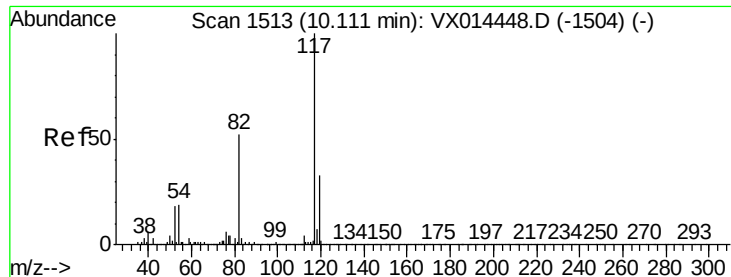
Ion Ratio Lower Upper

95 100

174 91.1 0.0 180.8

176 87.4 0.0 172.8

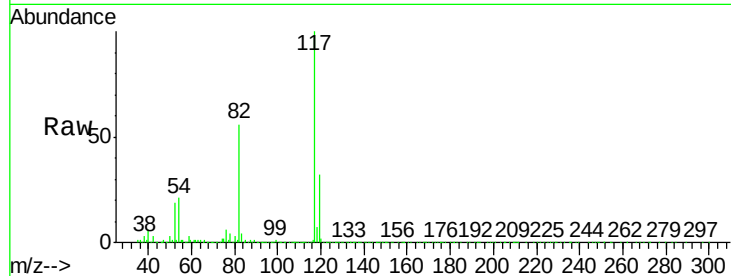




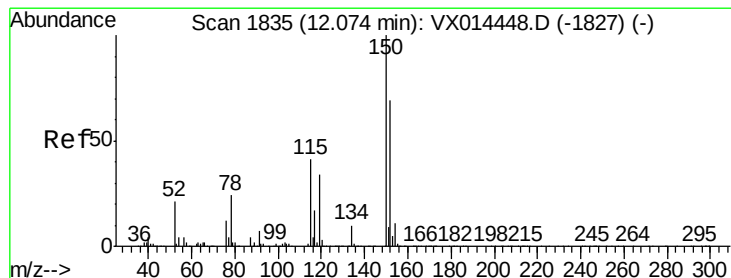
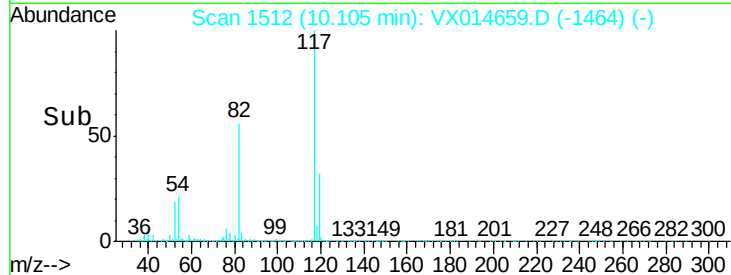
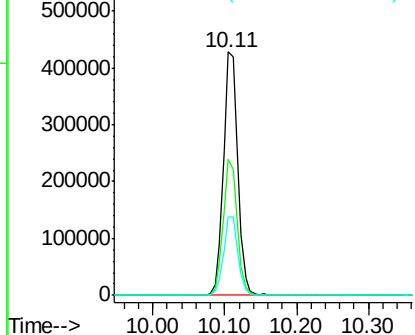
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1512  
Delta R.T. -0.01 min  
Lab File: VX014659.D  
Acq: 17 Jan 2020 16:54

Instrument :  
MSVOA\_X  
ClientSampled :  
MH-719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.0  | 41.8  | 62.6  |
| 119     | 32.3  | 26.2  | 39.4  |

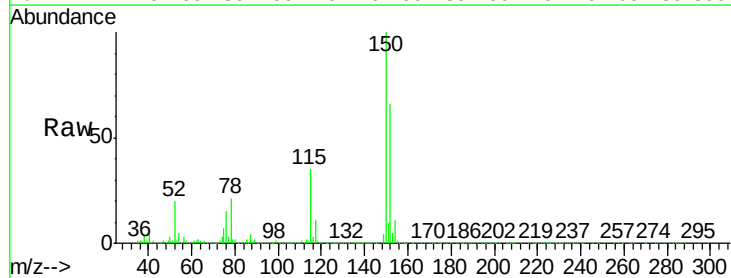


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX014659.D  
Acq: 17 Jan 2020 16:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.8  | 39.5  | 118.3 |
| 150     | 154.7 | 0.0   | 350.2 |



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

