

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032019\  
 Data File : VX008277.D  
 Acq On : 21 Mar 2019 06:36  
 Operator : JC/SP  
 Sample : K1945-09  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 M4-T1-UV(PRE)

Quant Time: Mar 22 08:21:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X031919W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 19 13:15:13 2019  
 Response via : Initial Calibration

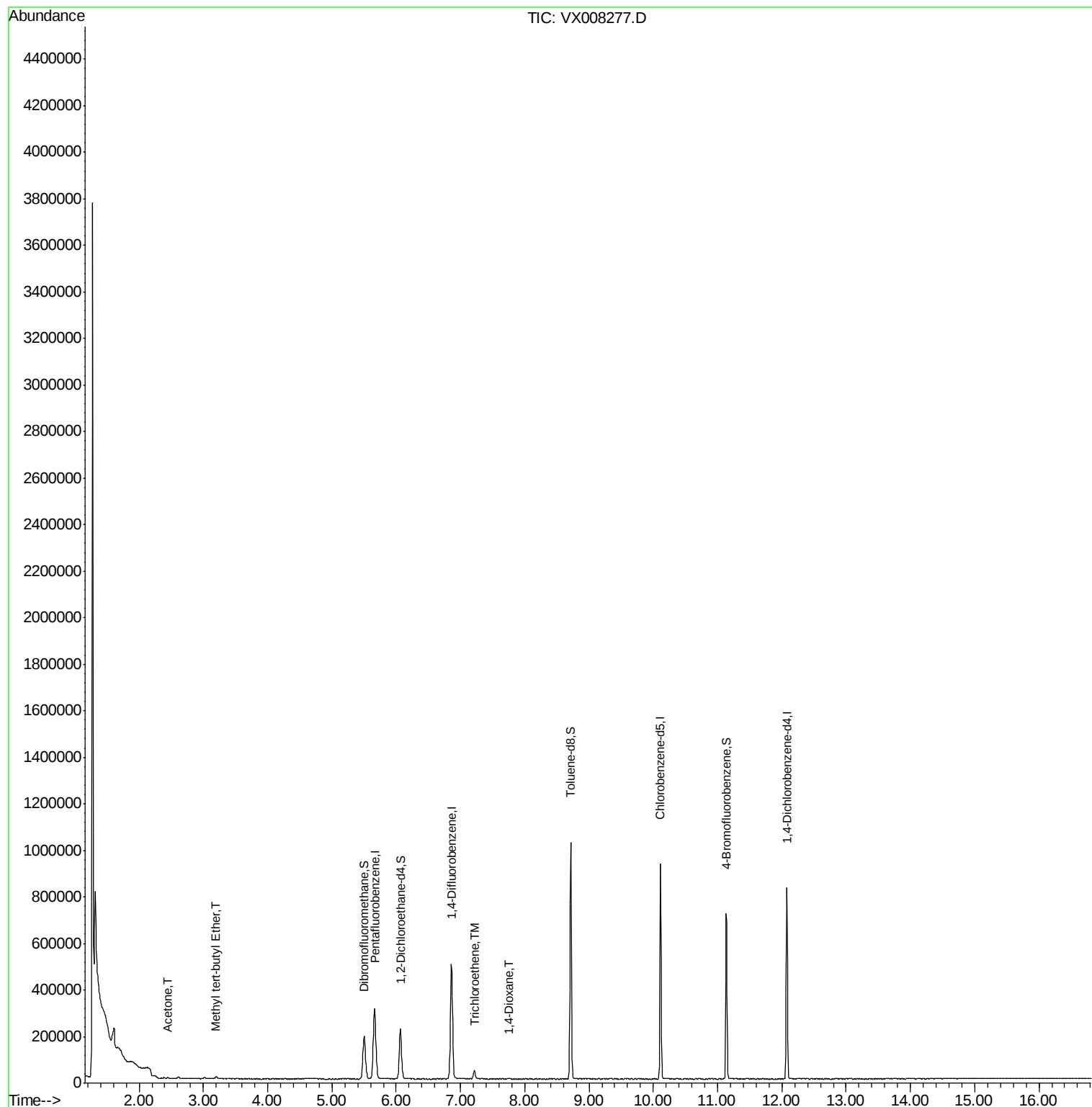
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene       | 5.67  | 168  | 290602   | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86  | 114  | 478852   | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 400566   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 161399   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 203792   | 46.56  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 93.12% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 157224   | 49.05  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 98.10% |          |
| 50) Toluene-d8              | 8.71  | 98   | 582379   | 47.92  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 95.84% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 184897   | 44.18  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 88.36% |          |
| Target Compounds            |       |      |          |        |        |          |
| 16) Acetone                 | 2.45  | 43   | 5143     | 2.072  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether | 3.20  | 73   | 12275    | 0.963  | ug/l   | 99       |
| 44) Trichloroethene         | 7.22  | 130  | 14016    | 3.474  | ug/l   | 89       |
| 49) 1,4-Dioxane             | 7.75  | 88   | 1695     | 17.101 | ug/l # | 81       |

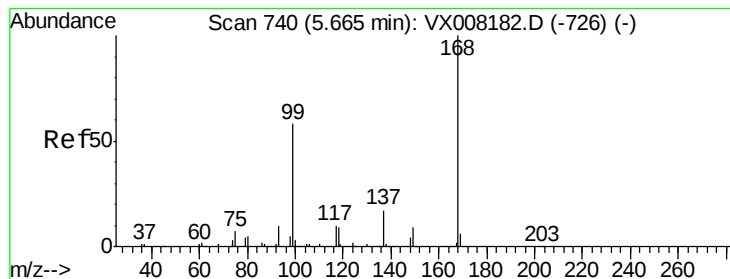
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032019\  
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Sample : K1945-09  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
M4-T1-UV(PRE)

Quant Time: Mar 22 08:21:57 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X031919W.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 19 13:15:13 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: VX008277.D

Acq: 21 Mar 2019 06:36

Instrument :

MSVOA\_X

ClientSampleId :

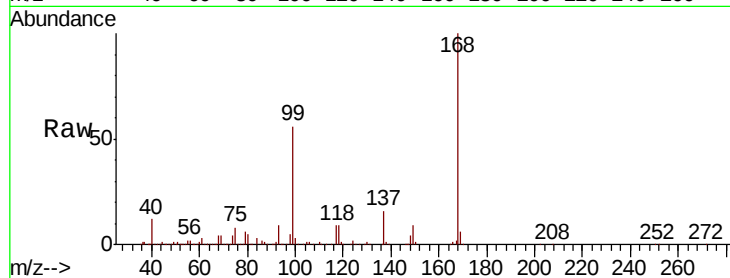
M4-T1-UV(PRE)

Tot Ion:168 Resp: 290602

Ion Ratio Lower Upper

168 100

99 56.4 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

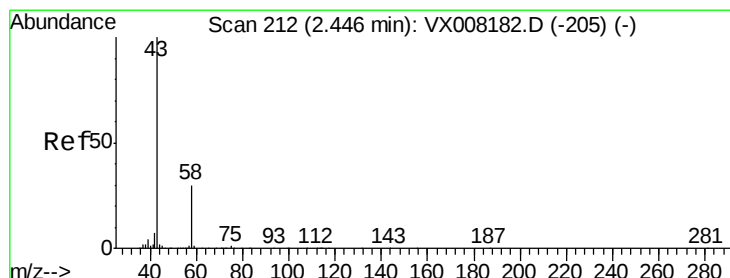
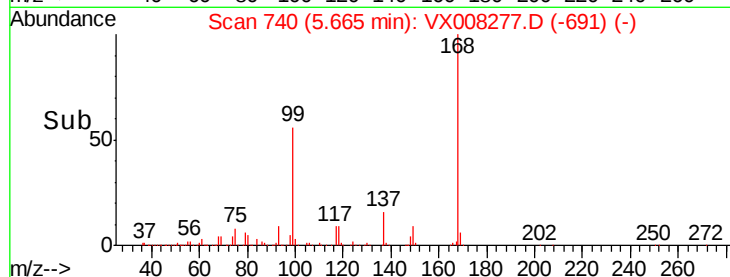
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#16

Acetone

Concen: 2.072 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008277.D

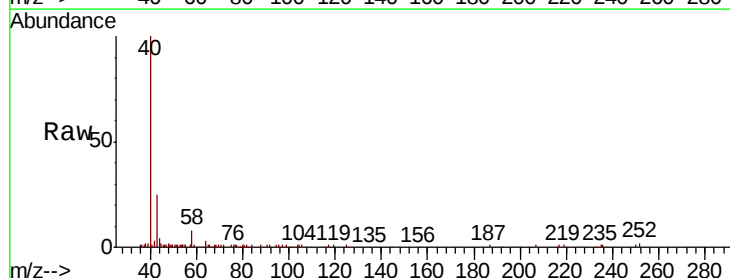
Acq: 21 Mar 2019 06:36

Tgt Ion: 43 Resp: 5143

Ion Ratio Lower Upper

43 100

58 31.9 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

3000

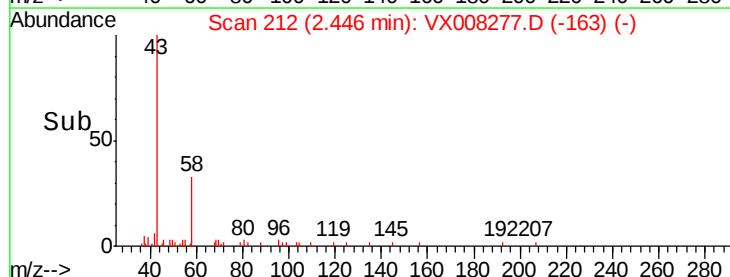
2000

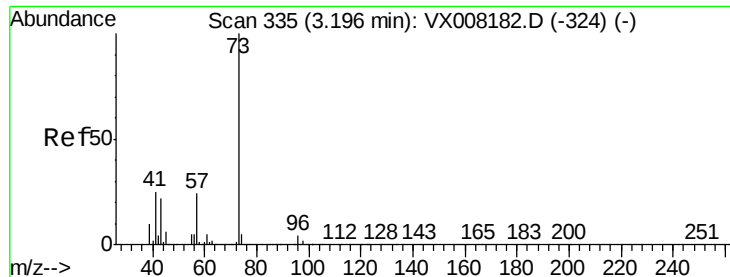
1000

0

Time-->

2.40 2.45 2.50



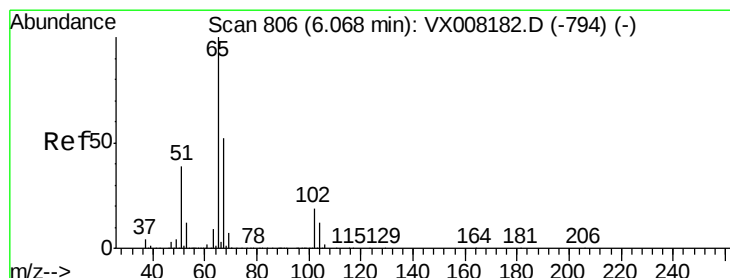
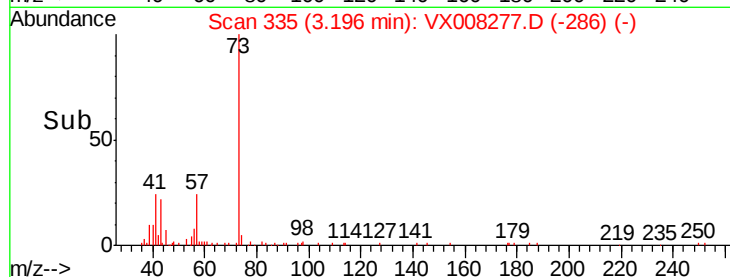
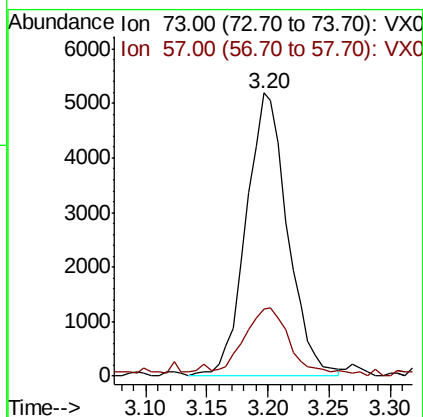
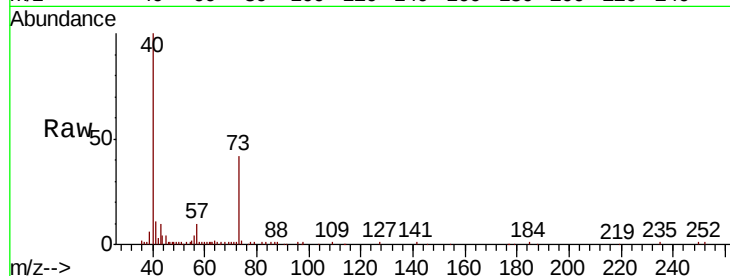


#19

Methvl tert-butvl Ether  
Concen: 0.963 ug/l  
RT: 3.20 min Scan# 335  
Delta R.T. -0.00 min  
Lab File: VX008277.D  
Acq: 21 Mar 2019 06:36

Instrument :  
MSVOA\_X  
ClientSampleId :  
M4-T1-UV(PRE)

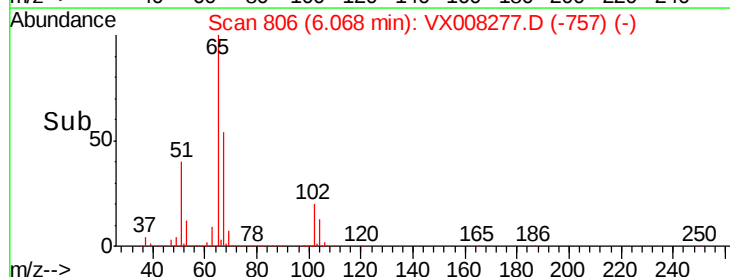
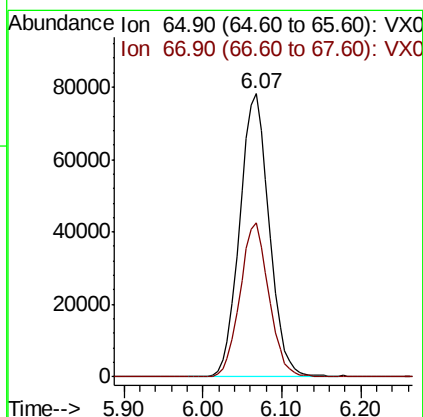
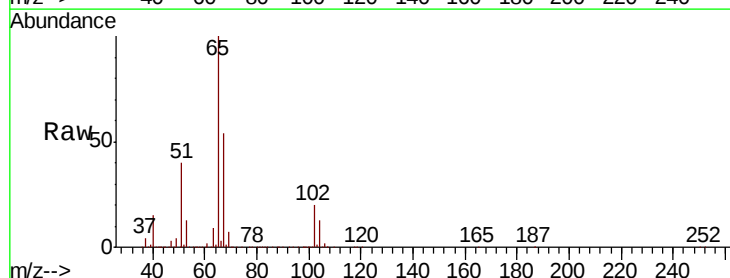
Tot Ion: 73 Resp: 12275  
Ion Ratio Lower Upper  
73 100  
57 22.4 18.2 27.4

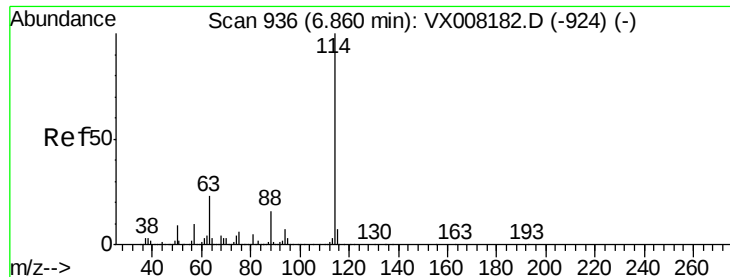


#33

1,2-Dichloroethane-d4  
Concen: 46.563 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. -0.00 min  
Lab File: VX008277.D  
Acq: 21 Mar 2019 06:36

Tgt Ion: 65 Resp: 203792  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 110.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008277.D

Acq: 21 Mar 2019 06:36

Instrument :

MSVOA\_X

ClientSampleId :

M4-T1-UV(PRE)

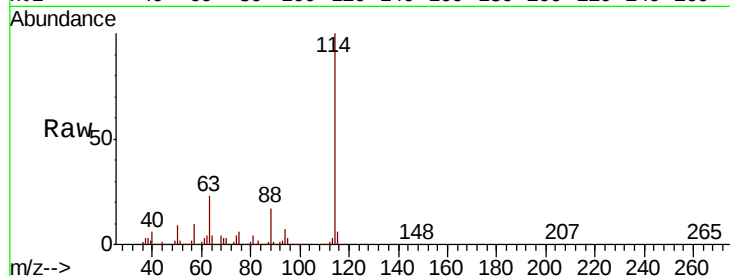
Tot Ion:114 Resp: 478852

Ion Ratio Lower Upper

114 100

63 22.8 0.0 39.8

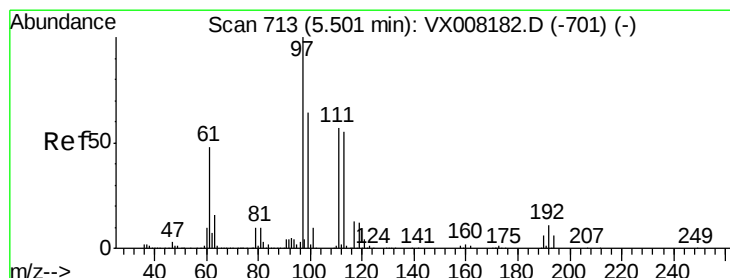
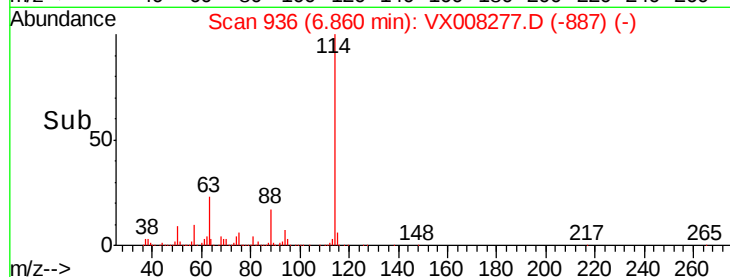
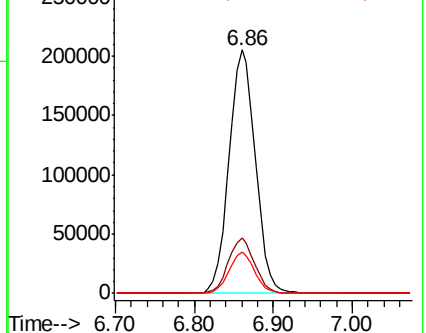
88 16.8 0.0 31.4



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: 49.047 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008277.D

Acq: 21 Mar 2019 06:36

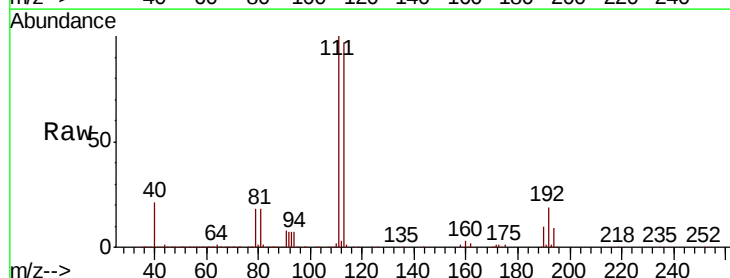
Tgt Ion:113 Resp: 157224

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

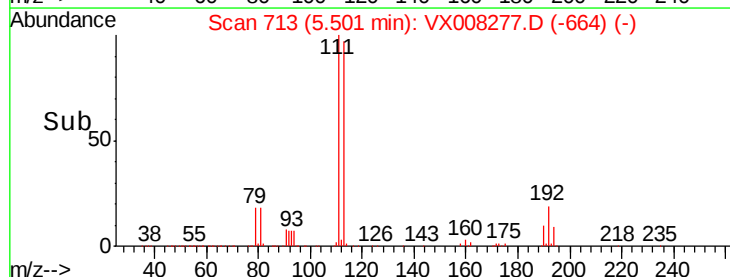
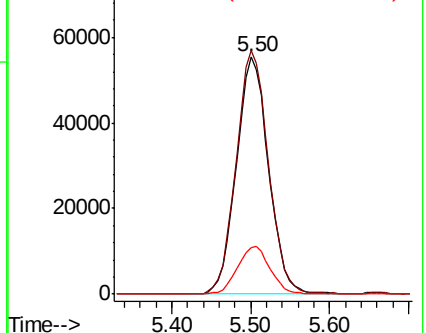
192 20.5 19.4 29.0

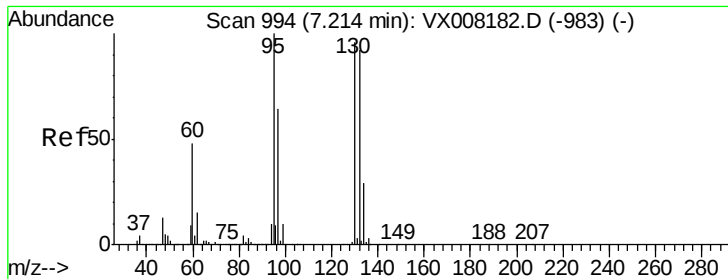


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#44

Trichloroethene

Concen: 3.474 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX008277.D

Acq: 21 Mar 2019 06:36

Instrument :

MSVOA\_X

ClientSampleId :

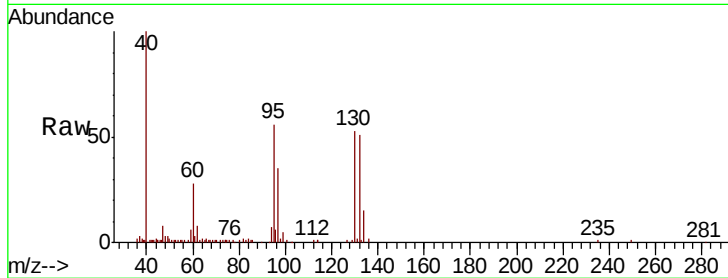
M4-T1-UV(PRE)

Tot Ion:130 Resp: 14016

Ion Ratio Lower Upper

130 100

95 105.0 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

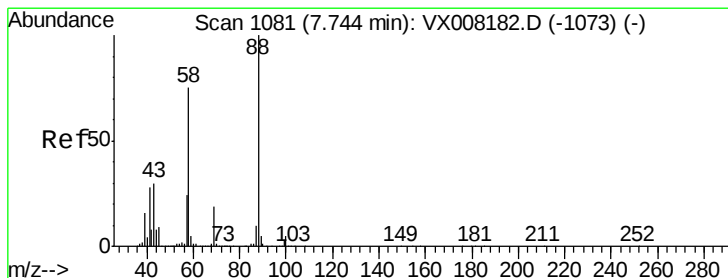
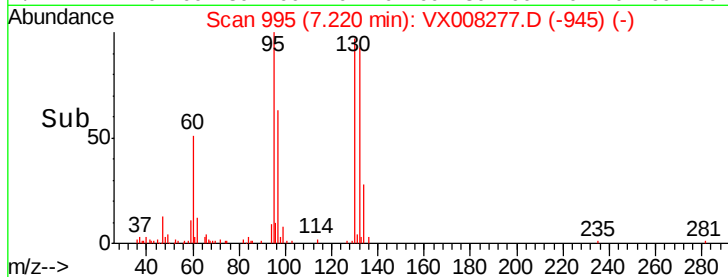
6000

4000

2000

0

Time--> 7.10 7.20 7.30



#49

1,4-Dioxane

Concen: 17.101 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX008277.D

Acq: 21 Mar 2019 06:36

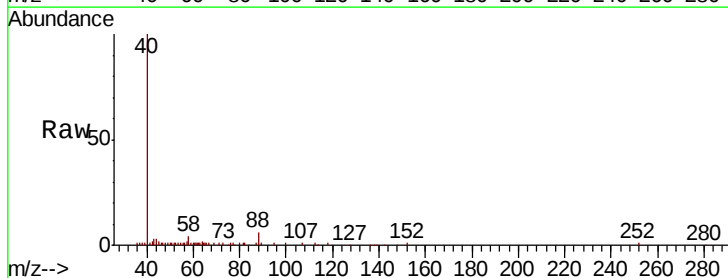
Tgt Ion: 88 Resp: 1695

Ion Ratio Lower Upper

88 100

43 28.1 25.1 37.7

58 92.3 57.8 86.6#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

7.75

1000

800

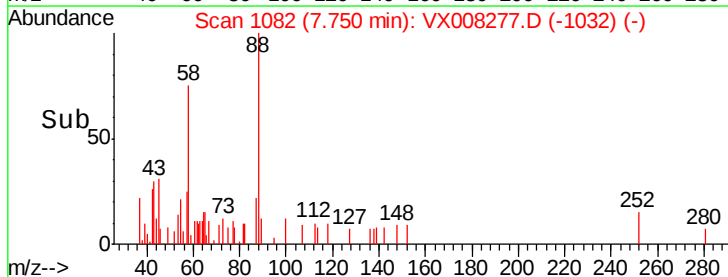
600

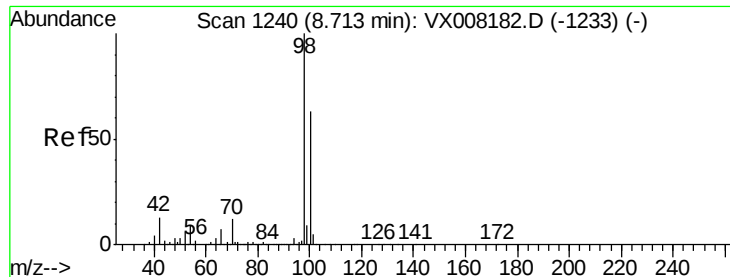
400

200

0

Time--> 7.70 7.75 7.80





#50

Toluene-d8

Concen: 47.918 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008277.D

Acq: 21 Mar 2019 06:36

Instrument :

MSVOA\_X

ClientSampleId :

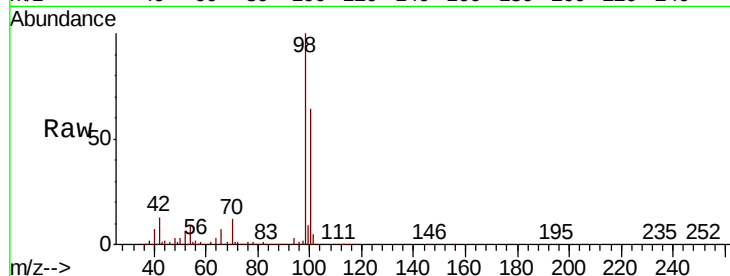
M4-T1-UV(PRE)

Tot Ion: 98 Resp: 582379

Ion Ratio Lower Upper

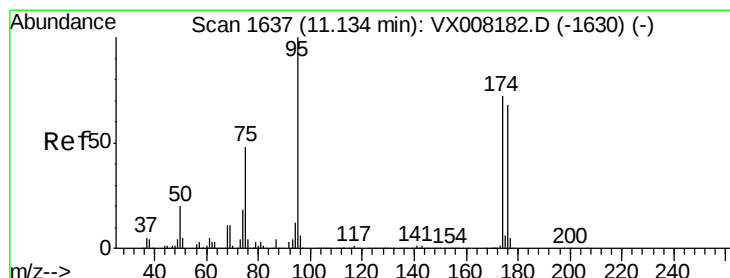
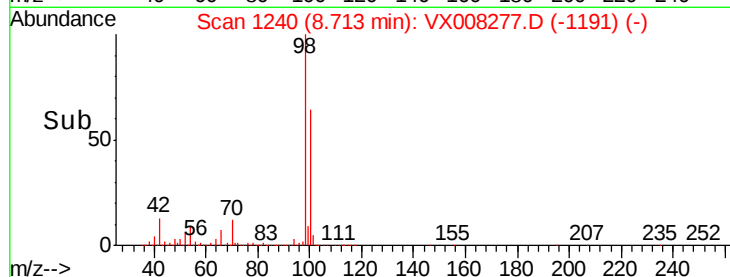
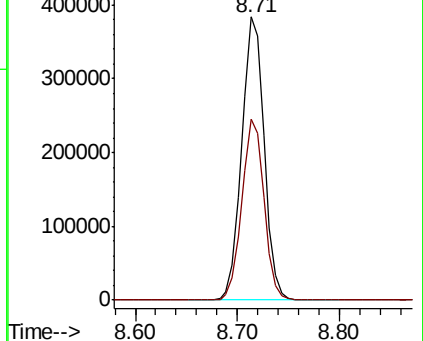
98 100

100 63.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 44.184 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008277.D

Acq: 21 Mar 2019 06:36

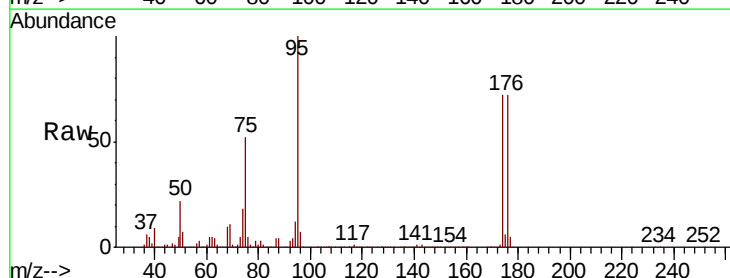
Tgt Ion: 95 Resp: 184897

Ion Ratio Lower Upper

95 100

174 78.9 0.0 182.8

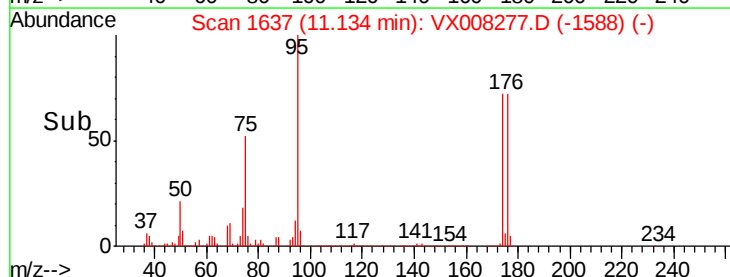
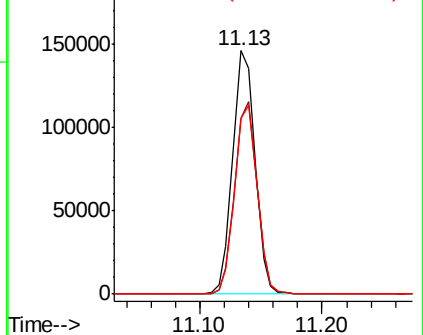
176 77.8 0.0 178.0

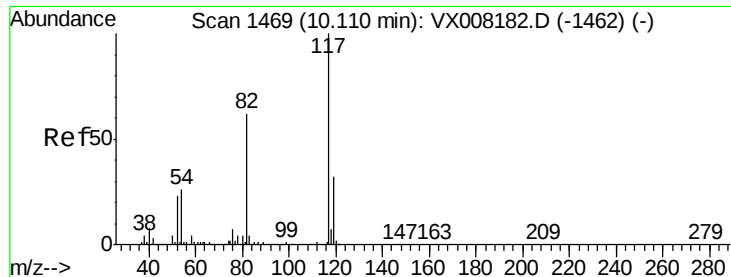


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

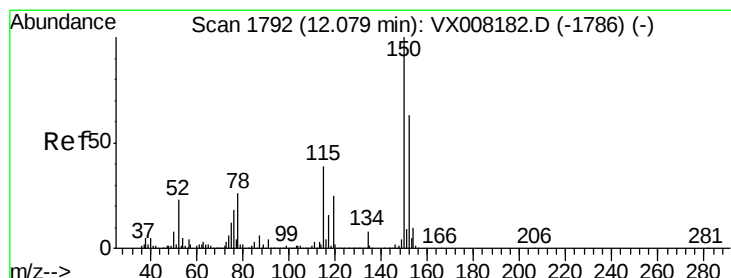
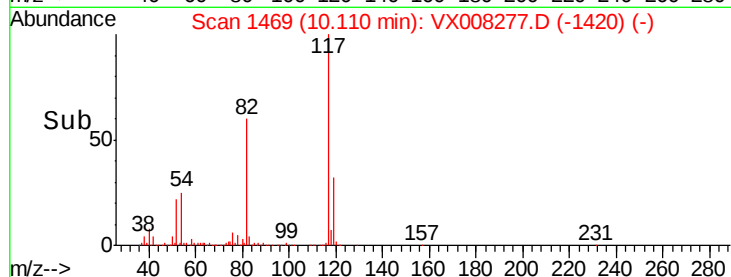
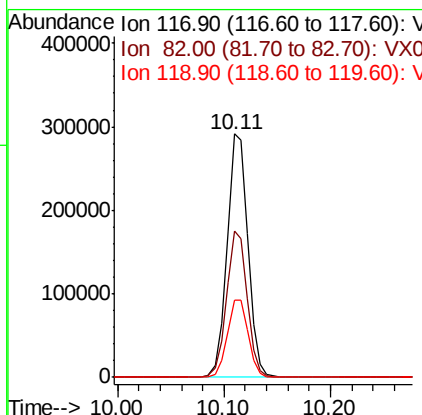
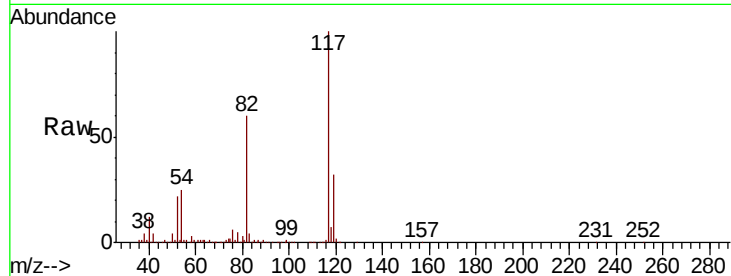




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX008277.D  
Acq: 21 Mar 2019 06:36

Instrument :  
MSVOA\_X  
ClientSampleId :  
M4-T1-UV(PRE)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 60.2  | 44.3  | 66.5  |
| 119     | 31.8  | 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: VX008277.D  
Acq: 21 Mar 2019 06:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.4  | 38.6  | 115.7 |
| 150     | 154.8 | 0.0   | 348.4 |

