

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX010320\  
 Data File : VX014396.D  
 Acq On : 03 Jan 2020 13:30  
 Operator : JC/SP  
 Sample : K6482-12  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB

Quant Time: Jan 06 02:56:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 565945   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 862980   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 774407   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 352564   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65  | 310433   | 48.40 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.80%  |      |
| 35) Dibromofluoromethane    | 5.48   | 113 | 256180   | 48.83 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.66%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 1023033  | 50.09 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.18% |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 348553   | 46.69 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.38%  |      |

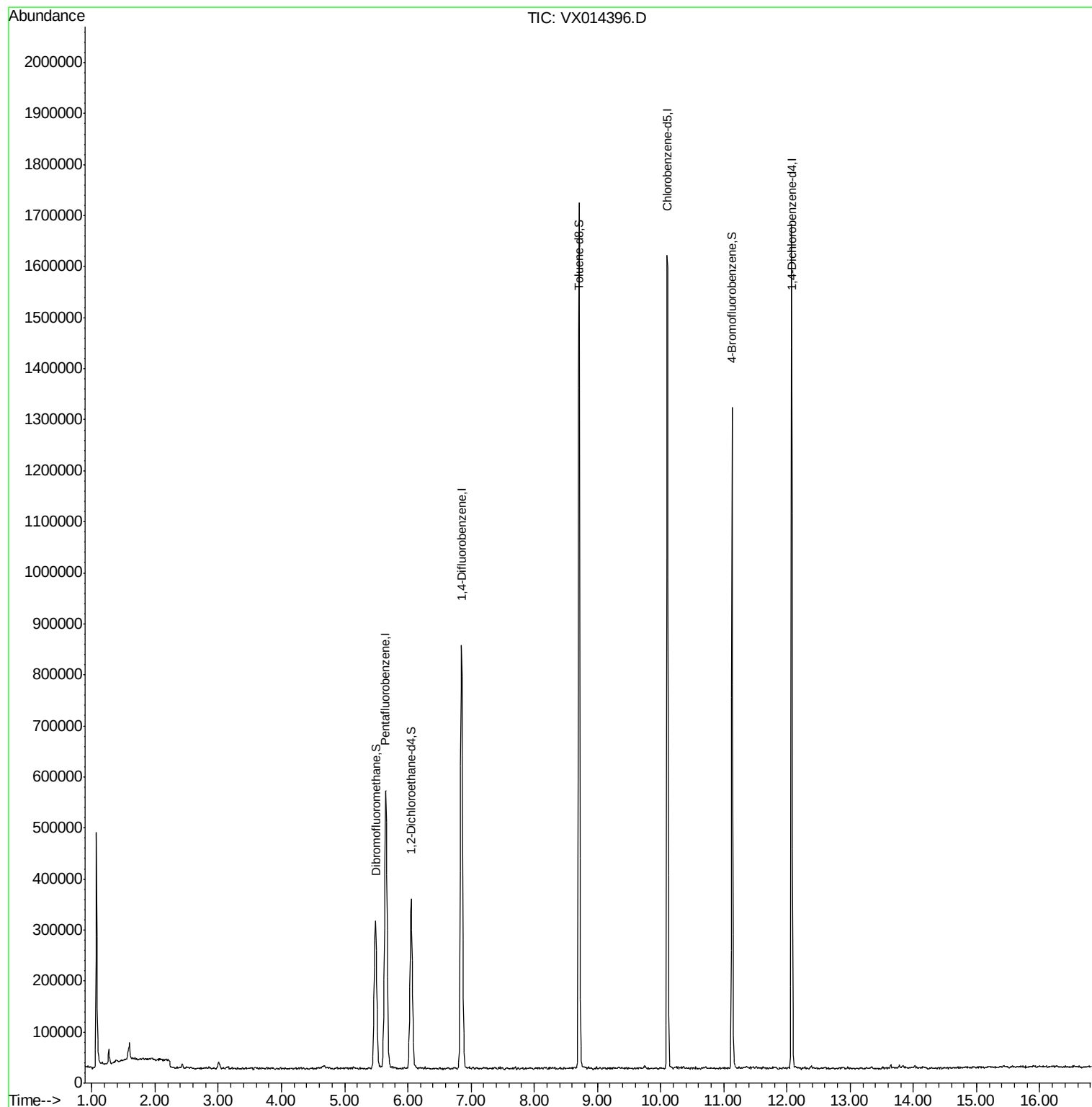
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

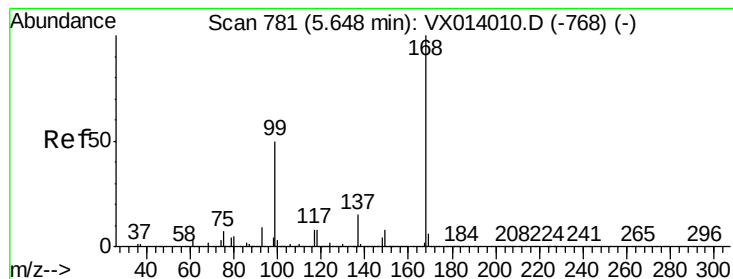
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TB

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Quant Title : SW846 8260  
QLast Update : Tue Dec 17 03:01:07 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014396.D

Acq: 03 Jan 2020 13:30

Instrument :

MSVOA\_X

ClientSampled :

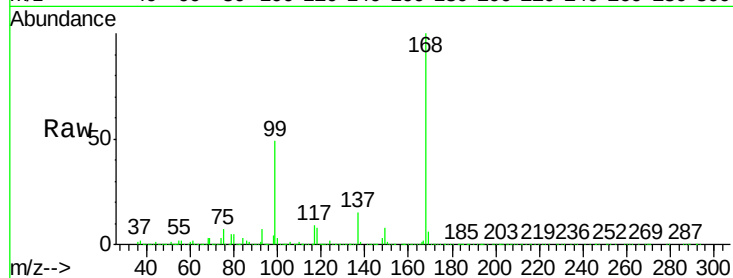
TB

Tgt Ion:168 Resp: 565945

Ion Ratio Lower Upper

168 100

99 48.9 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

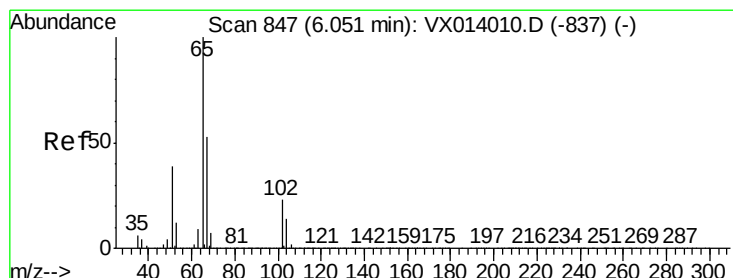
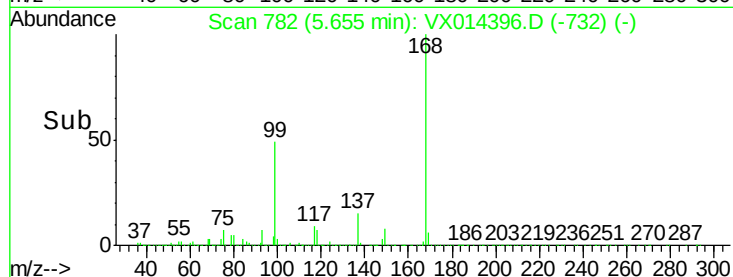
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 48.398 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014396.D

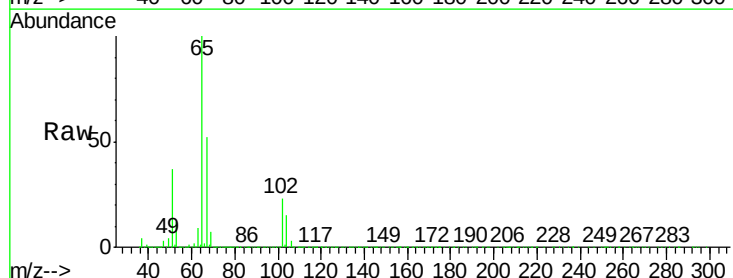
Acq: 03 Jan 2020 13:30

Tgt Ion: 65 Resp: 310433

Ion Ratio Lower Upper

65 100

67 52.7 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

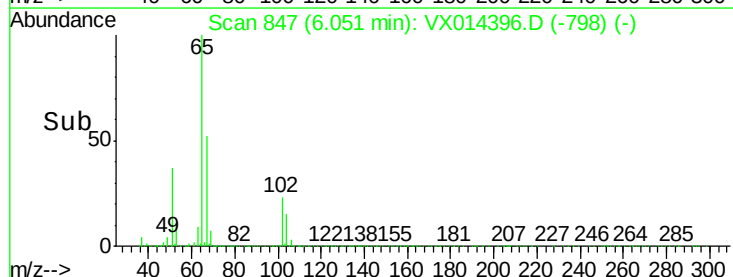
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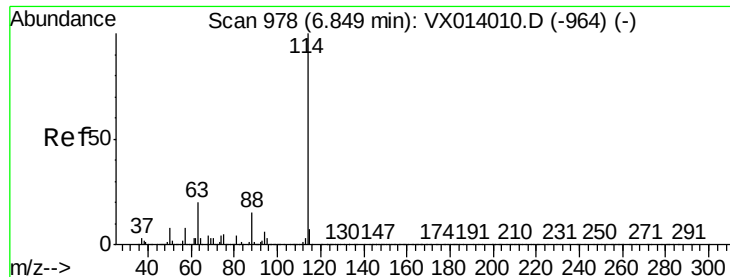
50000

0

Time-->

5.90 6.00 6.10 6.20

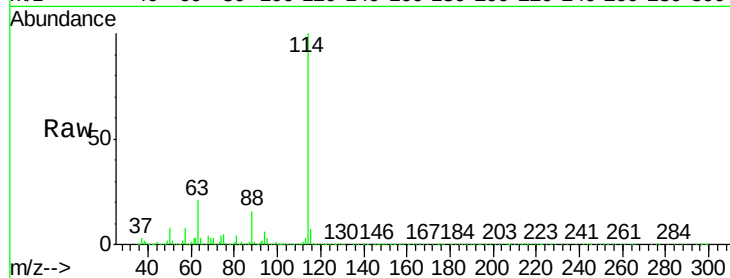




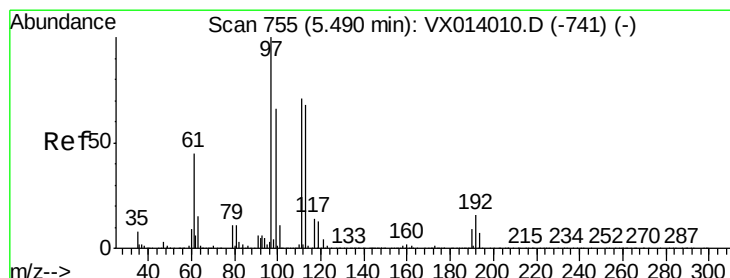
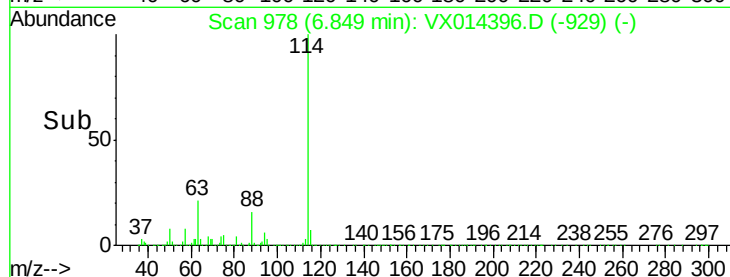
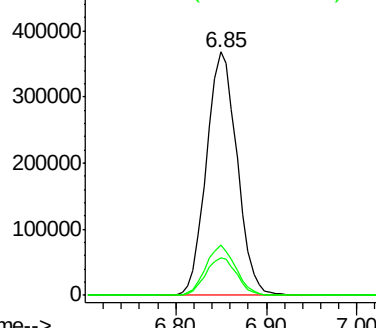
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX014396.D  
 Acq: 03 Jan 2020 13:30

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 862980 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 20.6  | 0.0   | 40.8   |
| 88       | 15.6  | 0.0   | 30.4   |

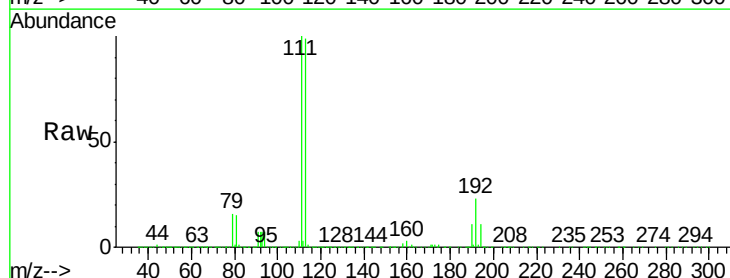


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

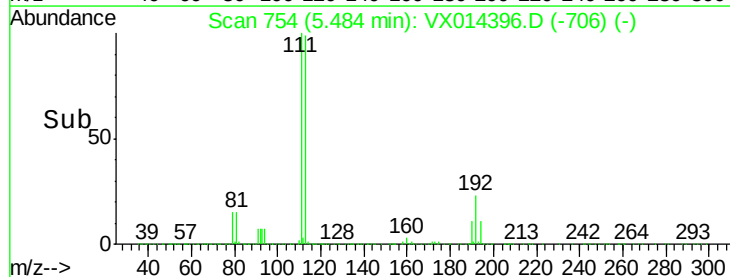
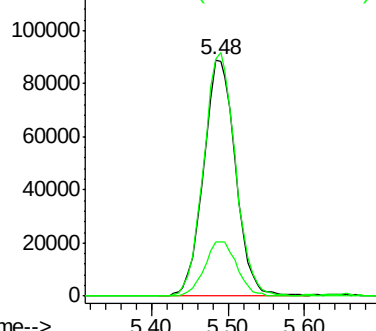


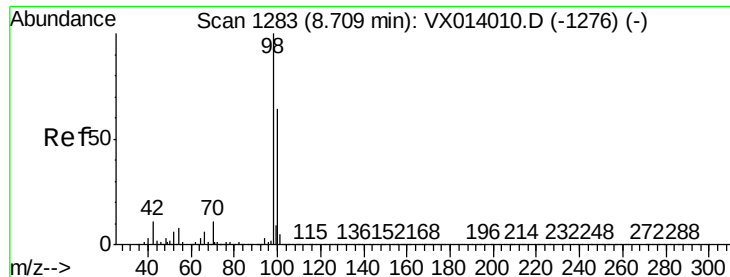
#35  
 Dibromofluoromethane  
 Concen: 48.834 ug/l  
 RT: 5.48 min Scan# 754  
 Delta R.T. -0.01 min  
 Lab File: VX014396.D  
 Acq: 03 Jan 2020 13:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 256180 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 103.1 | 82.0  | 123.0  |
| 192      | 23.6  | 19.3  | 28.9   |



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: 50.090 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014396.D

Acq: 03 Jan 2020 13:30

Instrument :

MSVOA\_X

ClientSampleId :

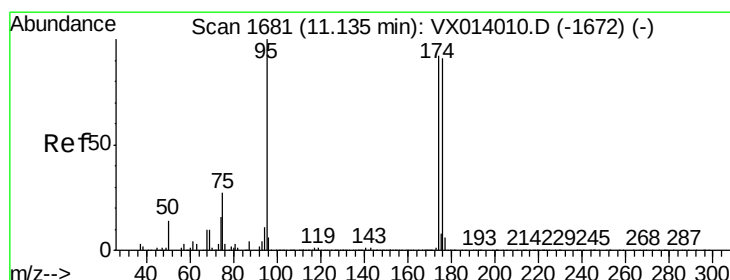
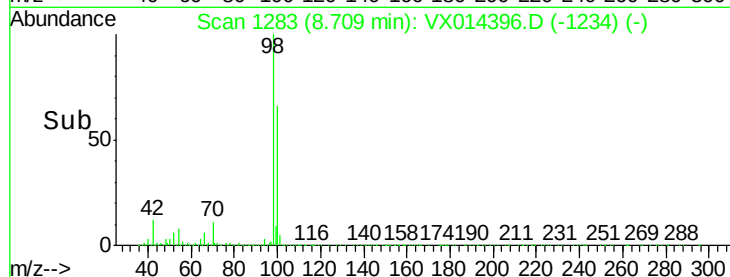
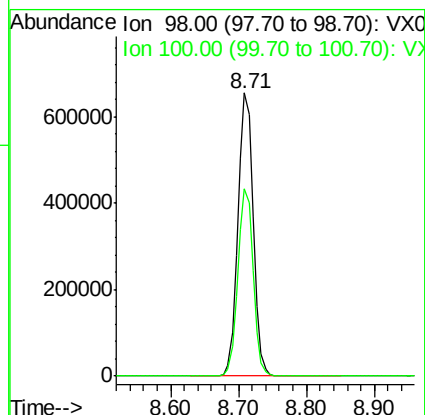
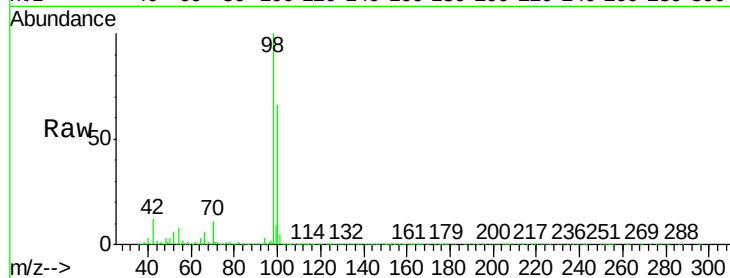
TB

Tgt Ion: 98 Resp: 1023033

Ion Ratio Lower Upper

98 100

100 66.0 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 46.686 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014396.D

Acq: 03 Jan 2020 13:30

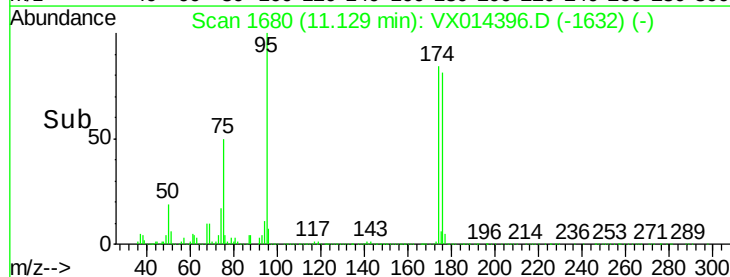
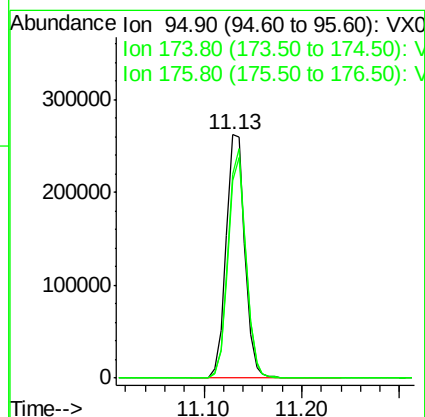
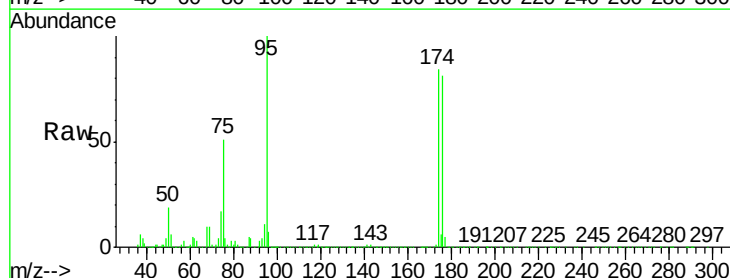
Tgt Ion: 95 Resp: 348553

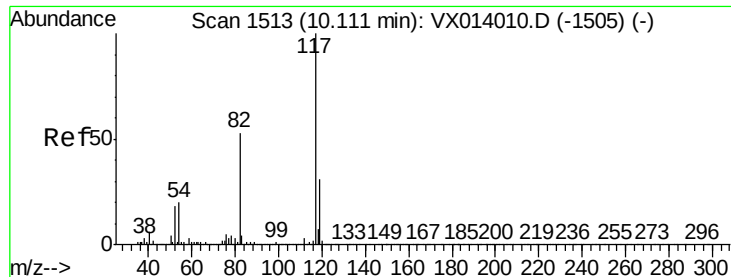
Ion Ratio Lower Upper

95 100

174 90.3 0.0 175.8

176 87.2 0.0 173.0

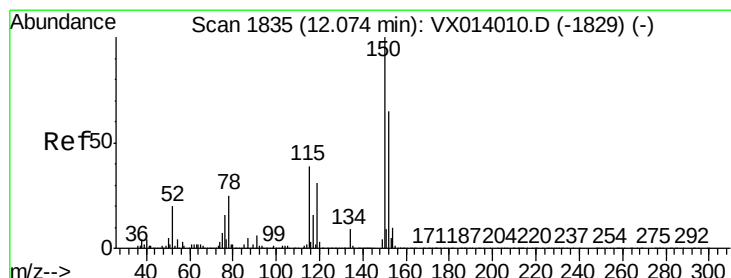
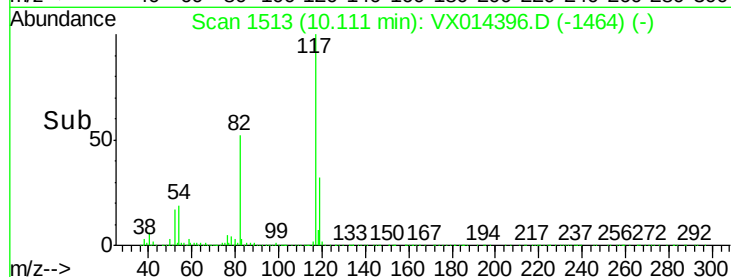
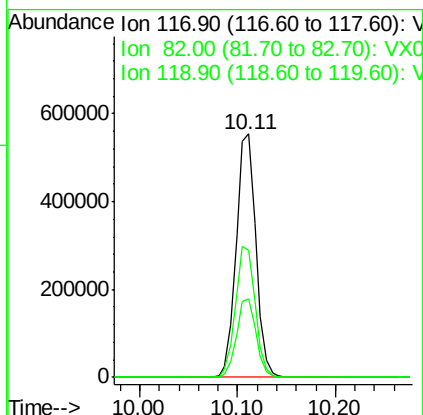
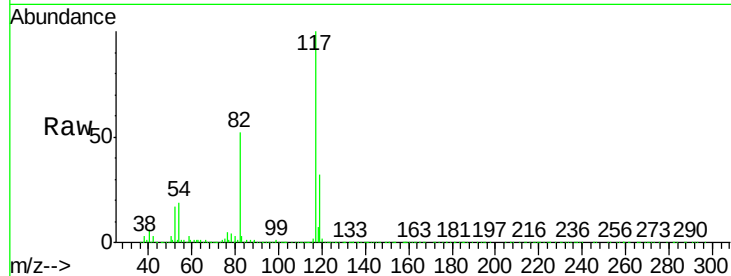




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX014396.D  
Acq: 03 Jan 2020 13:30

Instrument :  
MSVOA\_X  
ClientSampleId :  
TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.3  | 42.2  | 63.4  |
| 119     | 32.4  | 25.1  | 37.7  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX014396.D  
Acq: 03 Jan 2020 13:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.3  | 38.3  | 114.9 |
| 150     | 156.9 | 0.0   | 345.4 |

