

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102519\  
 Data File : VX013205.D  
 Acq On : 24 Oct 2019 12:27  
 Operator : JC/SP  
 Sample : K5531-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TB-20191021

Quant Time: Oct 25 03:09:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102419W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 24 03:56:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 81732    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 120526   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 118087   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 77239    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65  | 86553    | 50.63 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.26% |      |
| 35) Dibromofluoromethane    | 5.48   | 113 | 66746    | 49.66 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.32%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 242619   | 48.71 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.42%  |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 90174    | 45.74 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.48%  |      |

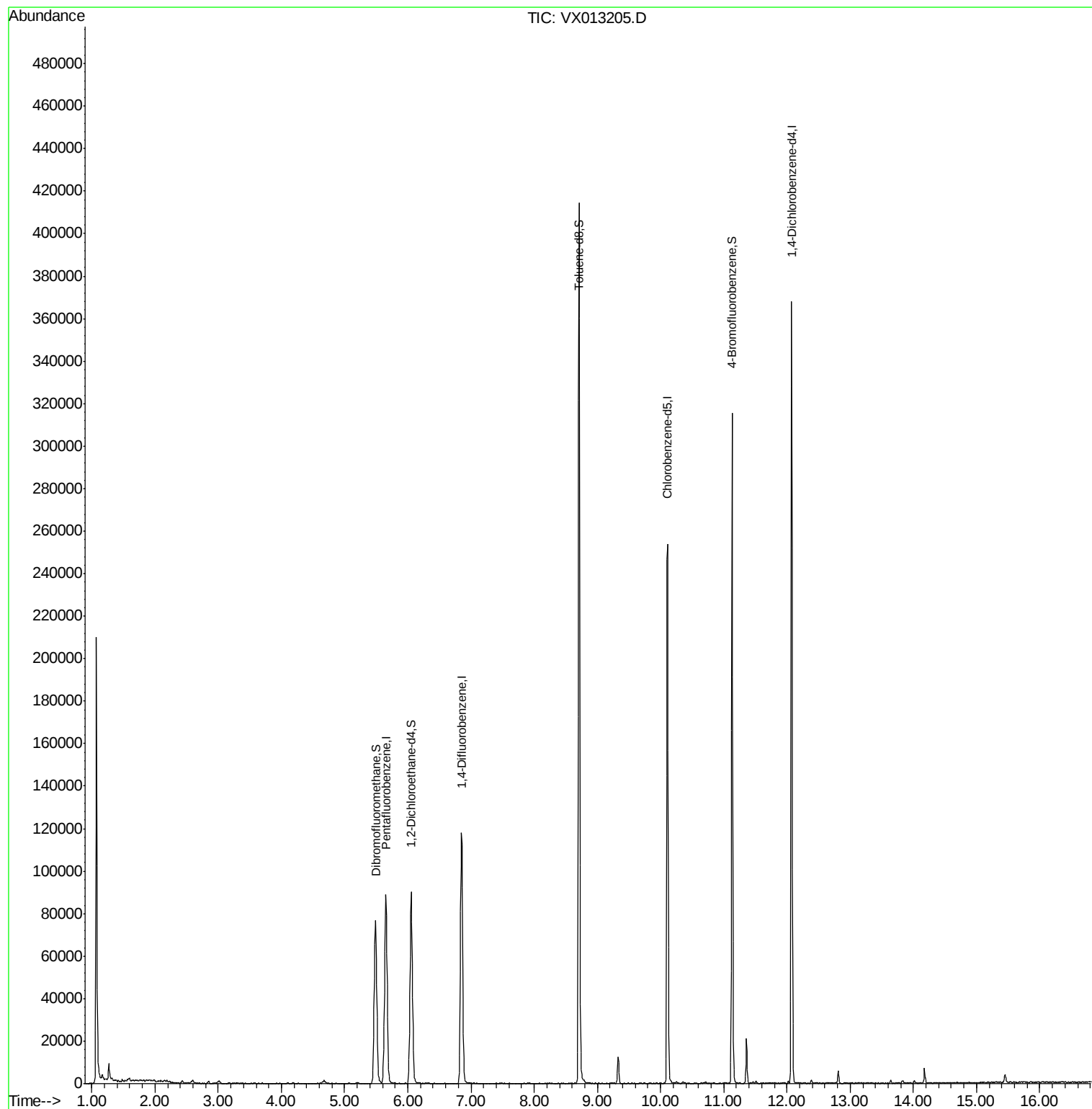
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

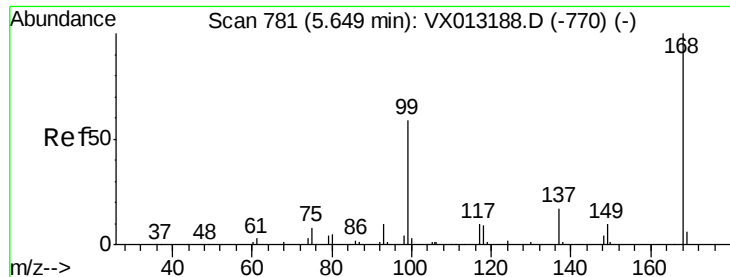
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X102419W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 24 03:56:38 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: VX013205.D

Acq: 24 Oct 2019 12:27

Instrument :

MSVOA\_X

ClientSampleId :

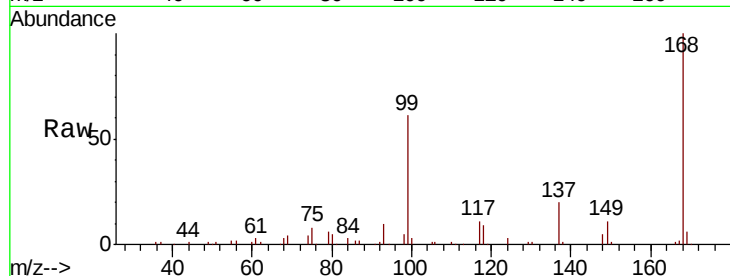
BP-TB-20191021

Tot Ion:168 Resp: 81732

Ion Ratio Lower Upper

168 100

99 60.7 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

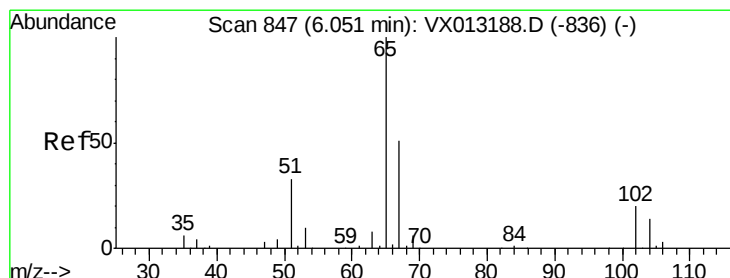
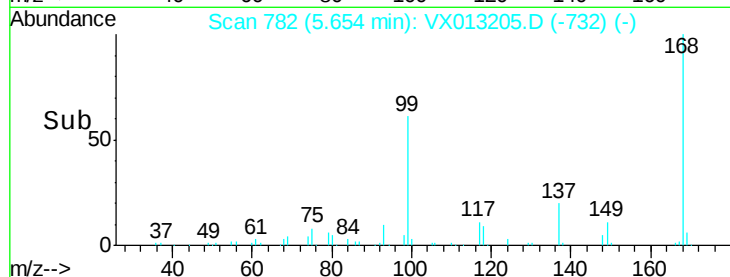
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 50.631 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013205.D

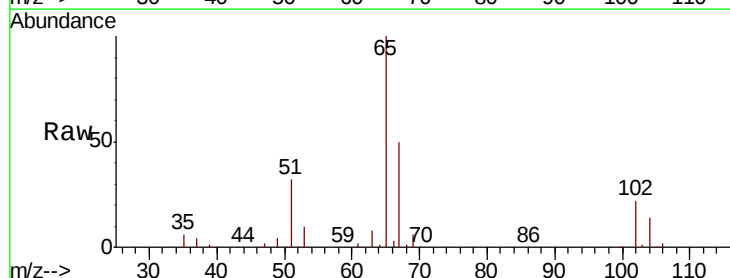
Acq: 24 Oct 2019 12:27

Tgt Ion: 65 Resp: 86553

Ion Ratio Lower Upper

65 100

67 51.6 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

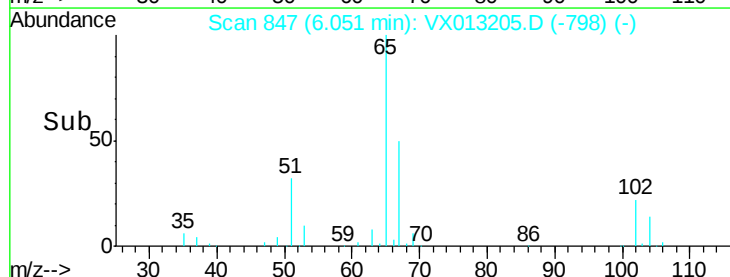
30000

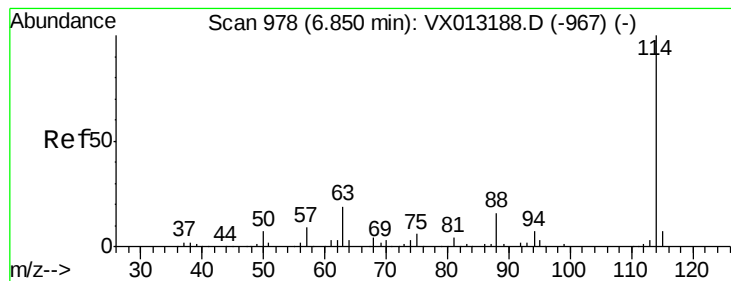
20000

10000

0

Time--> 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: VX013205.D

Acq: 24 Oct 2019 12:27

Instrument :

MSVOA\_X

ClientSampleId :

BP-TB-20191021

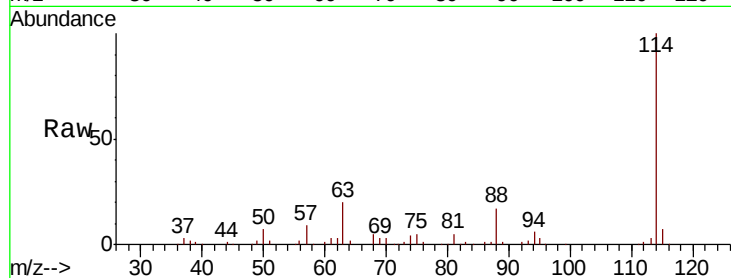
Tot Ion:114 Resp: 120526

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.0

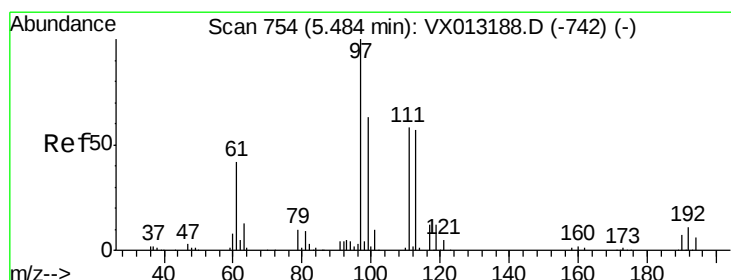
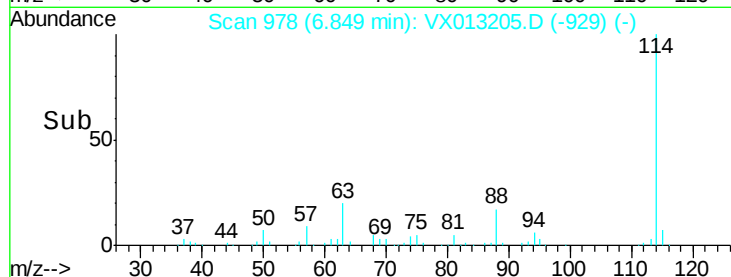
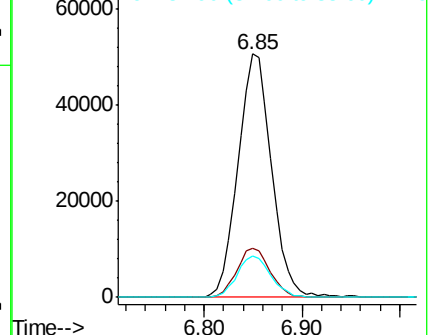
88 17.1 0.0 32.0



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: 49.661 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013205.D

Acq: 24 Oct 2019 12:27

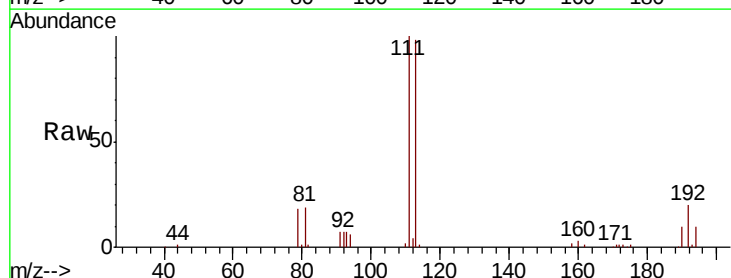
Tgt Ion:113 Resp: 66746

Ion Ratio Lower Upper

113 100

111 102.0 80.3 120.5

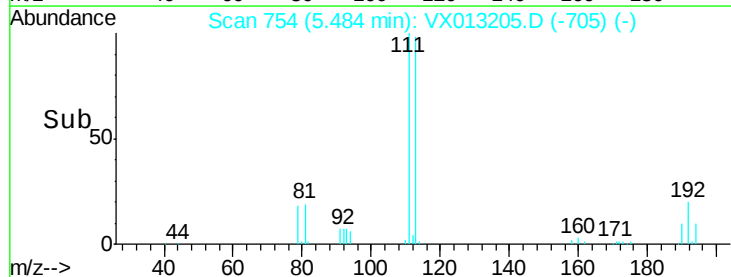
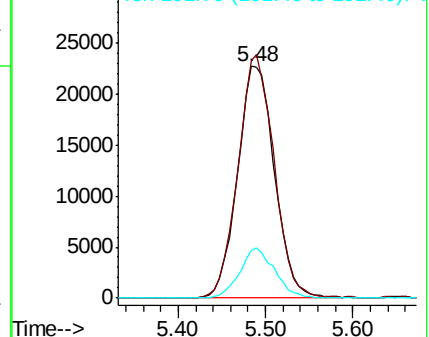
192 20.2 15.9 23.9

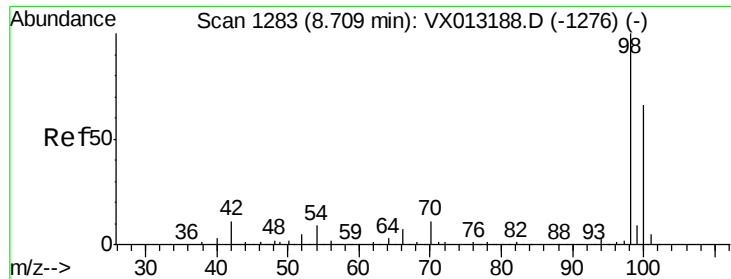


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 48.710 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013205.D

Acq: 24 Oct 2019 12:27

Instrument :

MSVOA\_X

ClientSampleId :

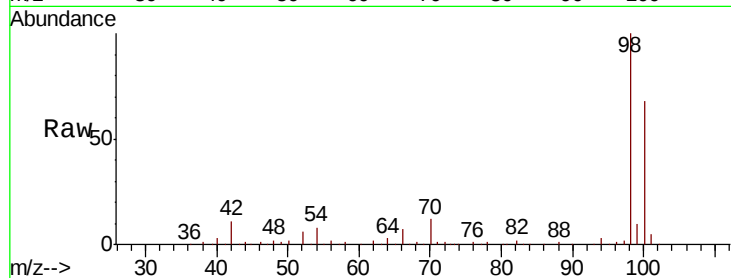
BP-TB-20191021

Tot Ion: 98 Resp: 242619

Ion Ratio Lower Upper

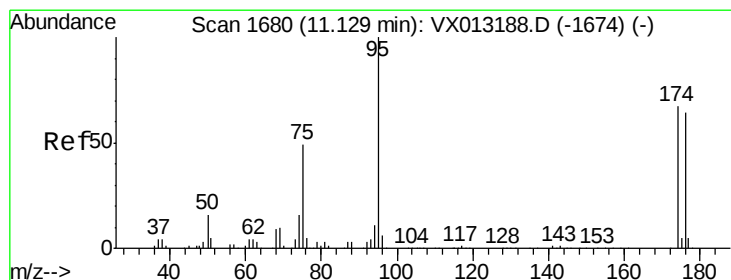
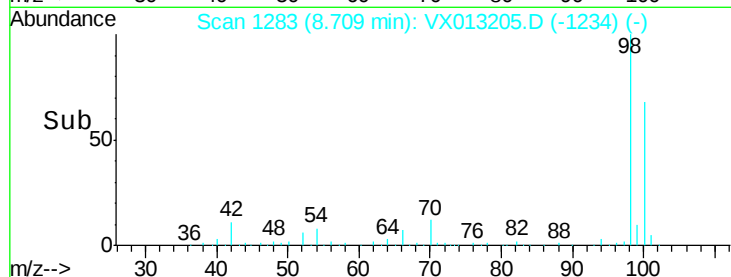
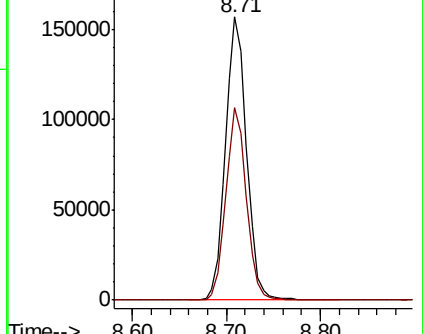
98 100

100 66.6 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 45.740 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX013205.D

Acq: 24 Oct 2019 12:27

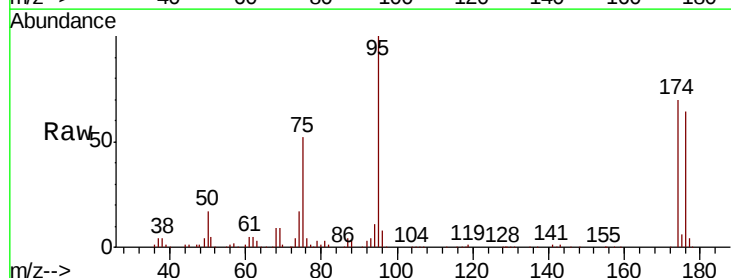
Tgt Ion: 95 Resp: 90174

Ion Ratio Lower Upper

95 100

174 77.4 0.0 152.4

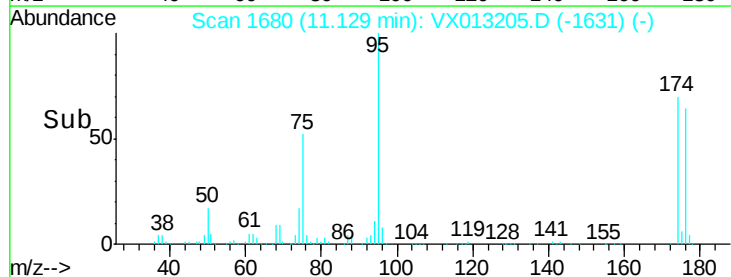
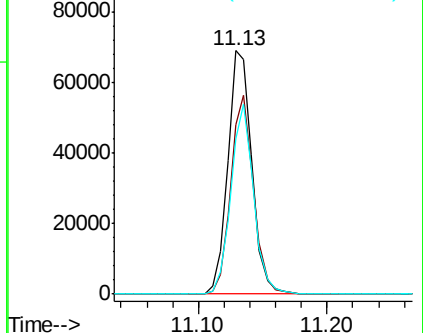
176 73.8 0.0 146.0

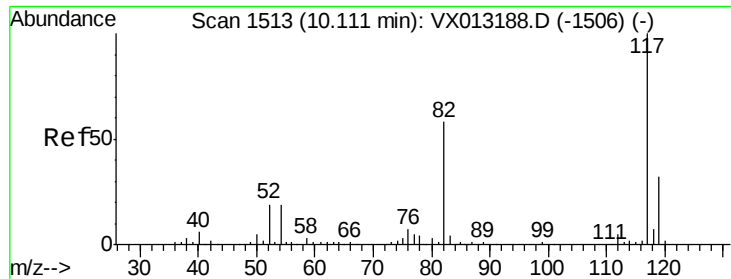


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

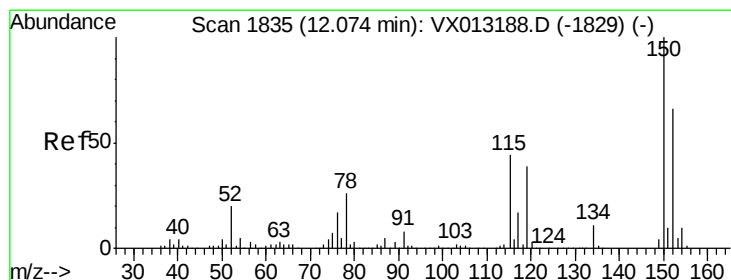
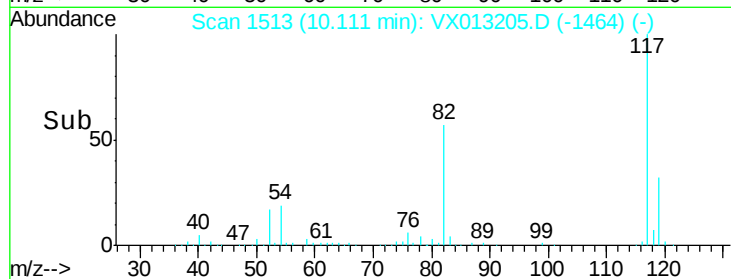
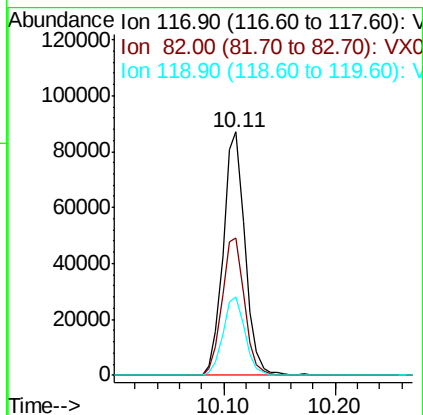
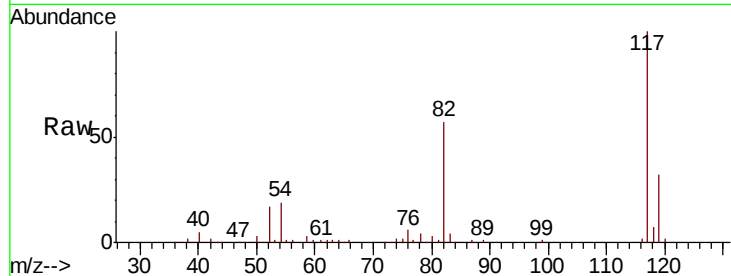




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX013205.D  
Acq: 24 Oct 2019 12:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TB-20191021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.5  | 46.5  | 69.7  |
| 119     | 32.3  | 25.2  | 37.8  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX013205.D  
Acq: 24 Oct 2019 12:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 61.4  | 46.6  | 139.8 |
| 150     | 153.1 | 0.0   | 354.0 |

