

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091219\  
 Data File : VX012352.D  
 Acq On : 12 Sep 2019 17:28  
 Operator : SY/SP  
 Sample : VX0912SBL02  
 Misc : 5.00g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0912SBL02

Quant Time: Sep 13 02:16:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091019S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 10 12:55:26 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 166985   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 286028   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 258765   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 119569   | 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   | 111510   | 47.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 94.46%  |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 86072    | 46.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 93.88%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 340213   | 52.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 105.80% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 136454   | 45.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 91.54%  |          |

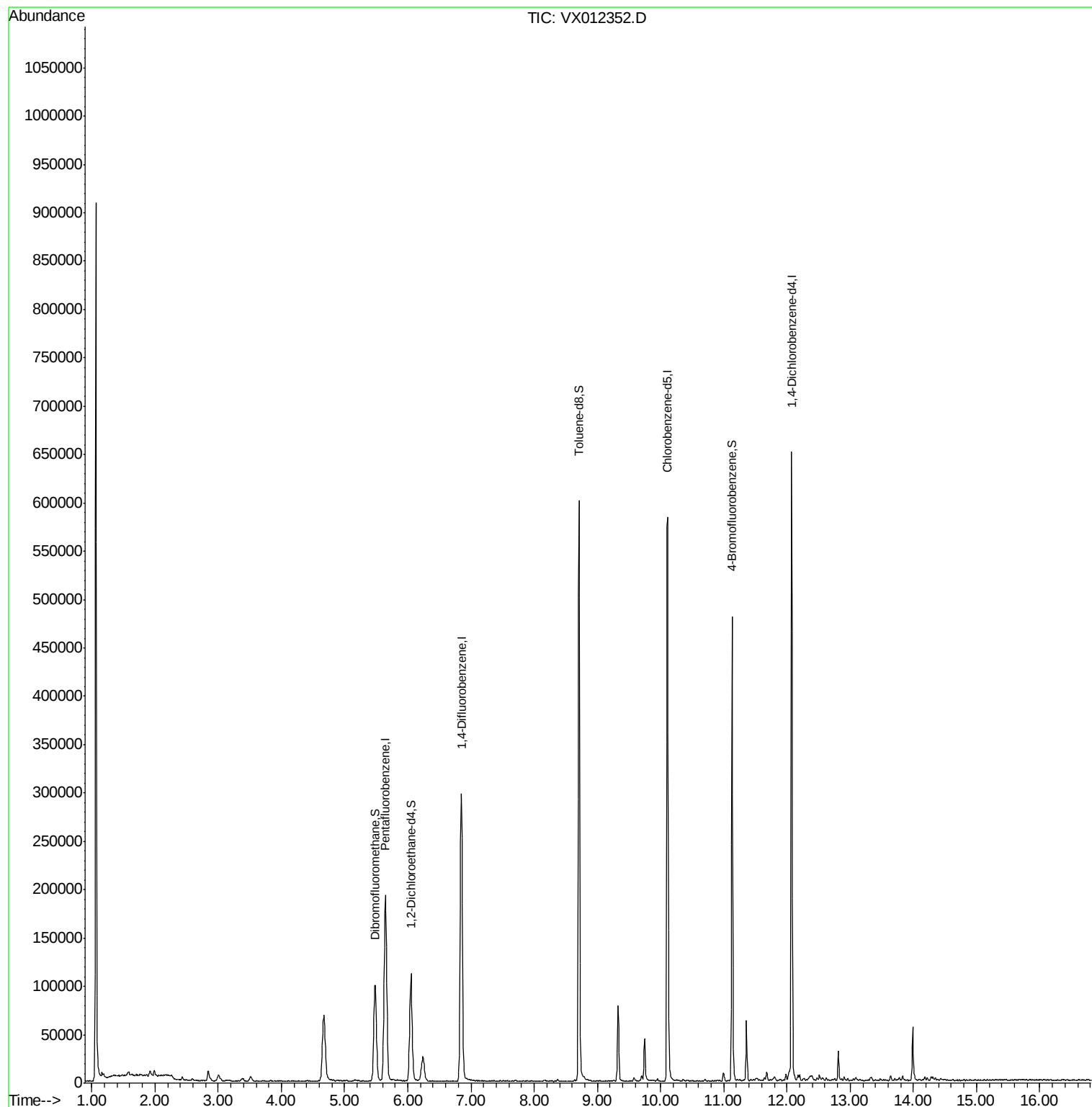
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

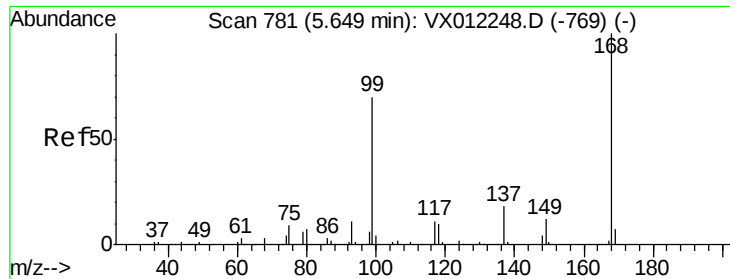
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091019S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 10 12:55:26 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012352.D

Acq: 12 Sep 2019 17:28

Instrument :

MSVOA\_X

ClientSampleId :

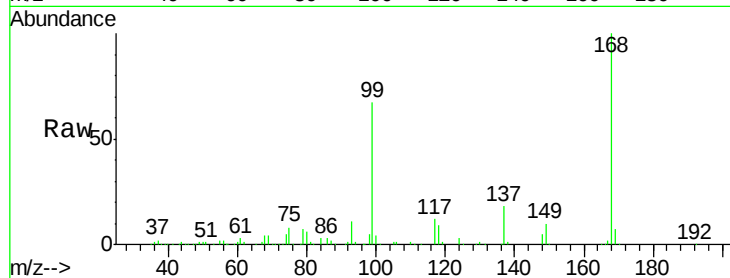
VX0912SBL02

Tot Ion:168 Resp: 166985

Ion Ratio Lower Upper

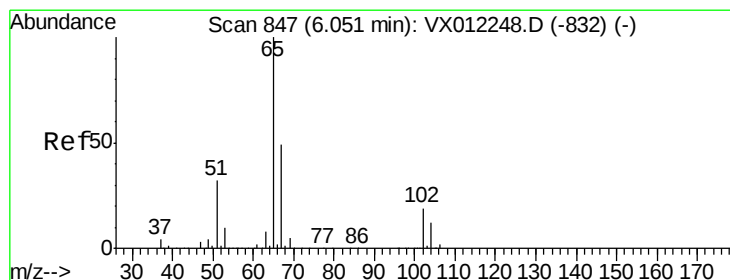
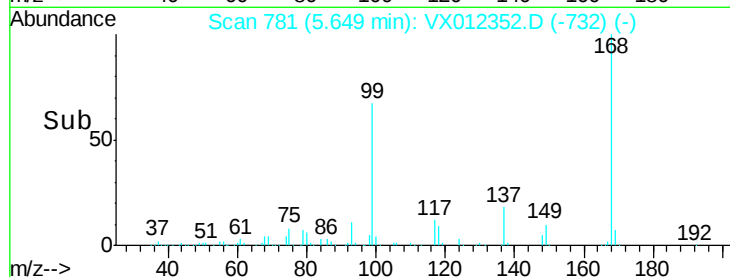
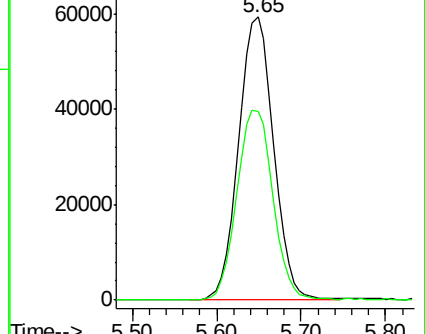
168 100

99 66.7 55.8 83.6



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: 47.233 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012352.D

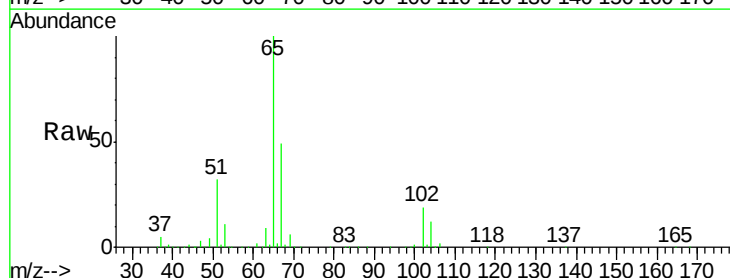
Acq: 12 Sep 2019 17:28

Tgt Ion: 65 Resp: 111510

Ion Ratio Lower Upper

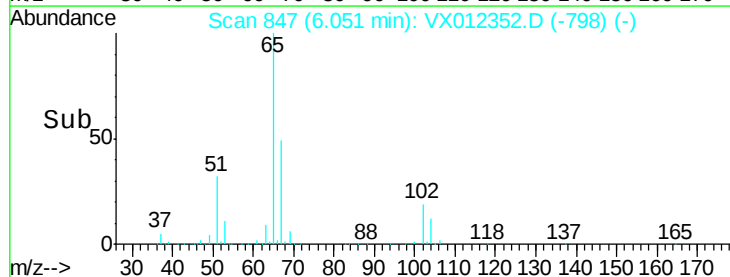
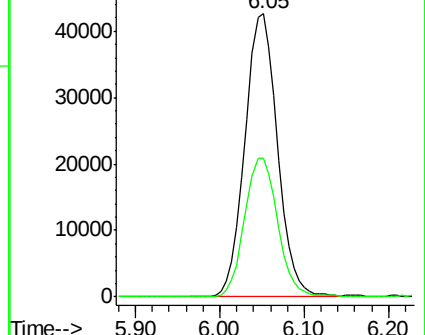
65 100

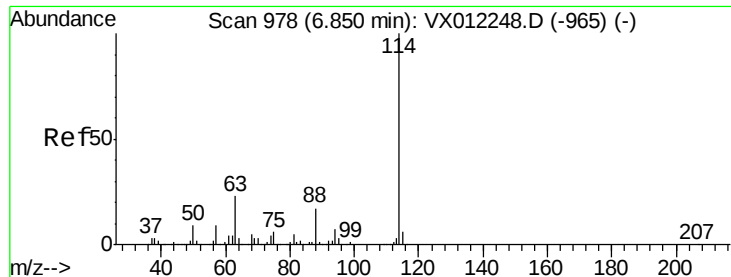
67 50.1 0.0 99.8



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: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012352.D

Acq: 12 Sep 2019 17:28

Instrument :

MSVOA\_X

ClientSampleId :

VX0912SBL02

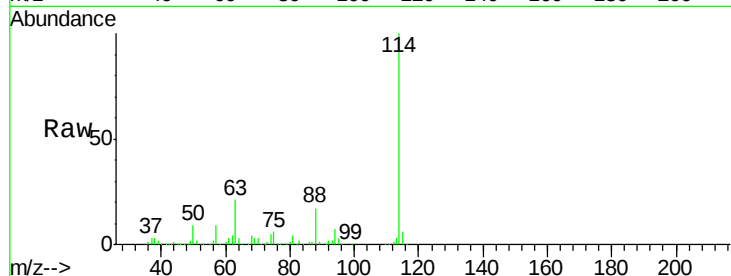
Tot Ion:114 Resp: 286028

Ion Ratio Lower Upper

114 100

63 21.2 0.0 45.2

88 17.1 0.0 34.8



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

150000

100000

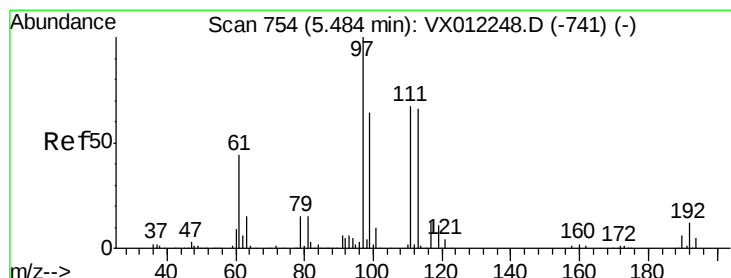
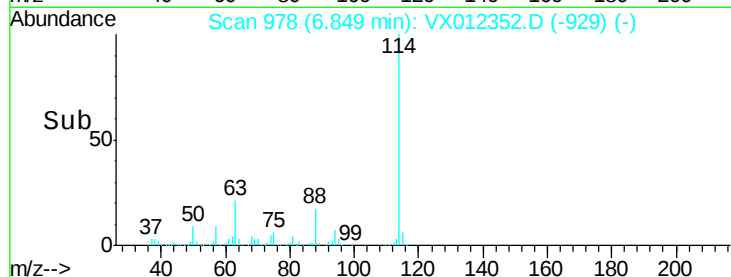
50000

0

6.85

6.80 6.90

Time-->



#35

Dibromofluoromethane

Concen: 46.942 ug/l

RT: 5.48 min Scan# 753

Delta R.T. -0.01 min

Lab File: VX012352.D

Acq: 12 Sep 2019 17:28

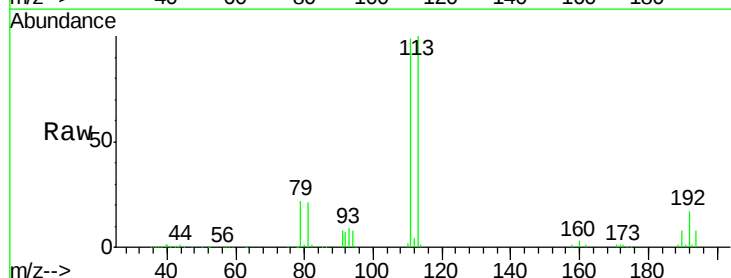
Tgt Ion:113 Resp: 86072

Ion Ratio Lower Upper

113 100

111 103.9 83.0 124.6

192 17.6 14.3 21.5



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

40000

30000

20000

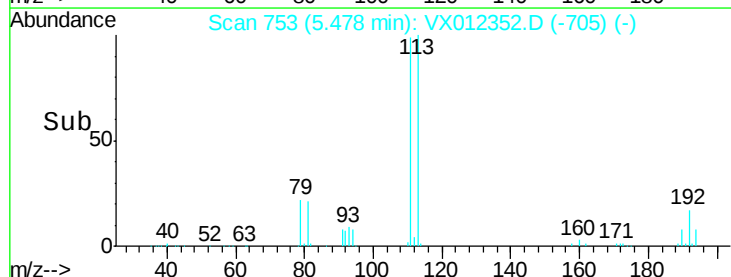
10000

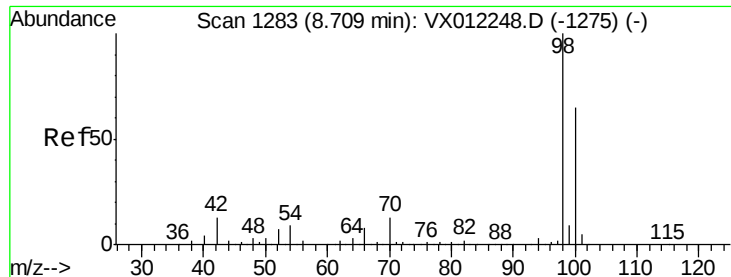
0

5.48

5.40 5.50 5.60

Time-->

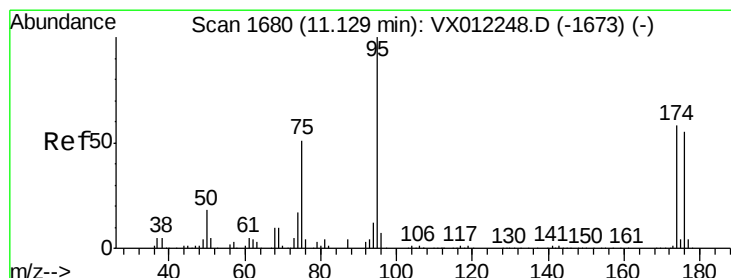
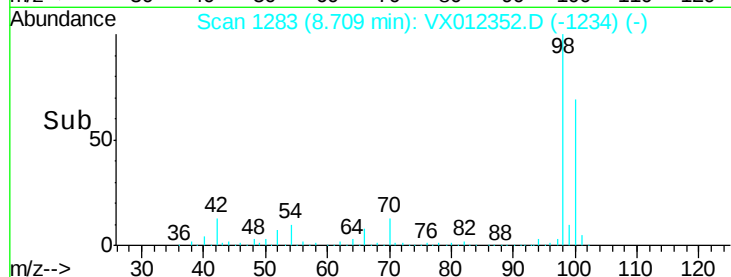
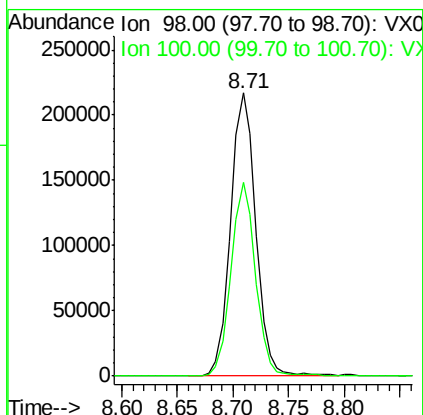
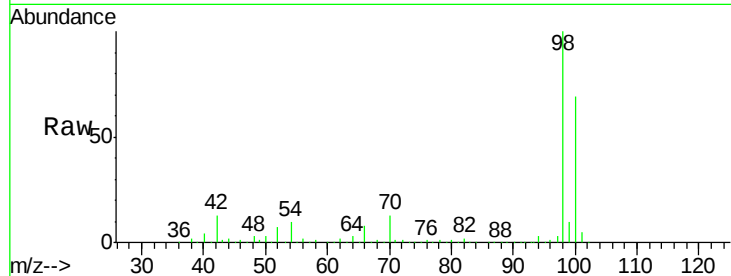




#50  
Toluene-d8  
Concen: 52.902 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX012352.D  
Acq: 12 Sep 2019 17:28

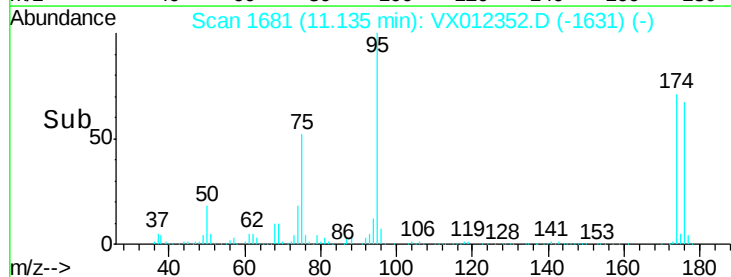
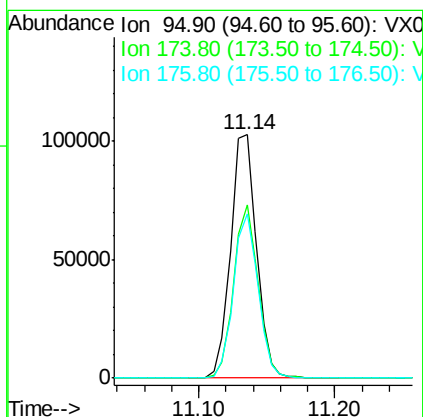
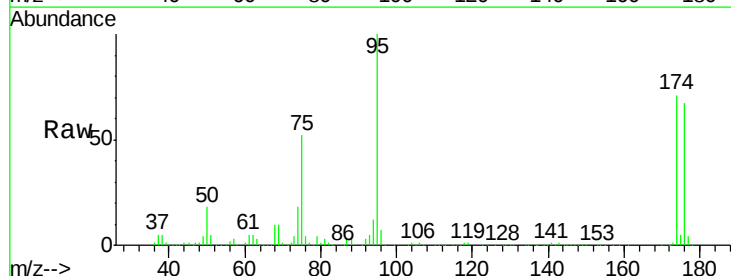
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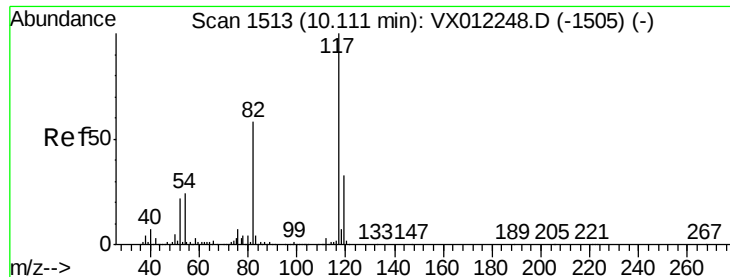
Tot Ion: 98 Resp: 340213  
Ion Ratio Lower Upper  
98 100  
100 67.3 54.1 81.1



#62  
4-Bromofluorobenzene  
Concen: 45.768 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.01 min  
Lab File: VX012352.D  
Acq: 12 Sep 2019 17:28

Tgt Ion: 95 Resp: 136454  
Ion Ratio Lower Upper  
95 100  
174 67.3 0.0 127.0  
176 64.5 0.0 125.8

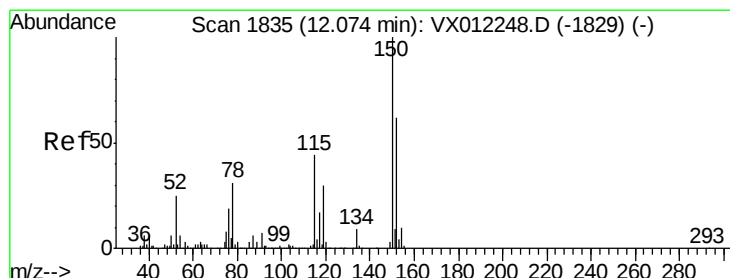
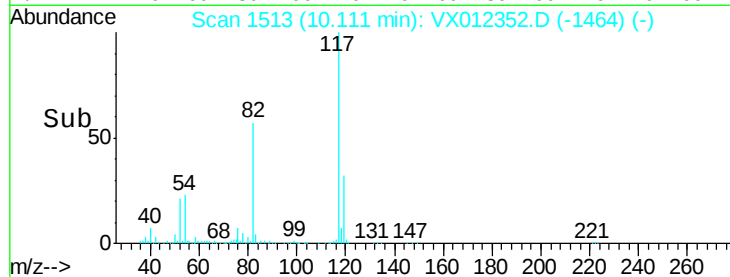
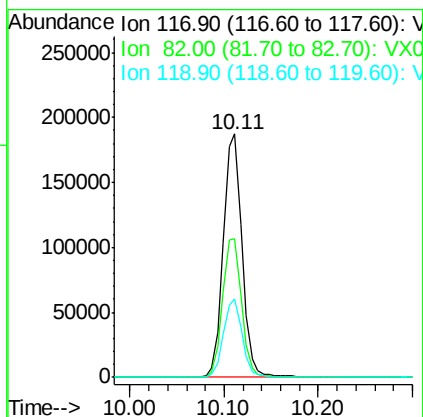
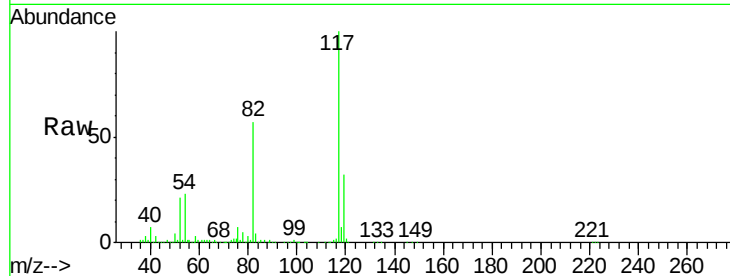




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX012352.D  
Acq: 12 Sep 2019 17:28

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0912SBL02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.2  | 46.4  | 69.6  |
| 119     | 32.2  | 26.6  | 39.8  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX012352.D  
Acq: 12 Sep 2019 17:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 66.0  | 45.5  | 136.4 |
| 150     | 160.3 | 0.0   | 346.4 |

