

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091119\  
 Data File : VX012325.D  
 Acq On : 12 Sep 2019 02:46  
 Operator : SY/SP  
 Sample : K4694-08  
 Misc : 5.92g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T1-4(0)

Quant Time: Sep 12 07:12:18 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  | 168638   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 289642   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 248709   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 98613    | 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   | 115788   | 48.56  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 97.12%  |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 86947    | 46.83  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 93.66%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 341875   | 52.50  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 105.00% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 126324   | 41.84  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 83.68%  |          |

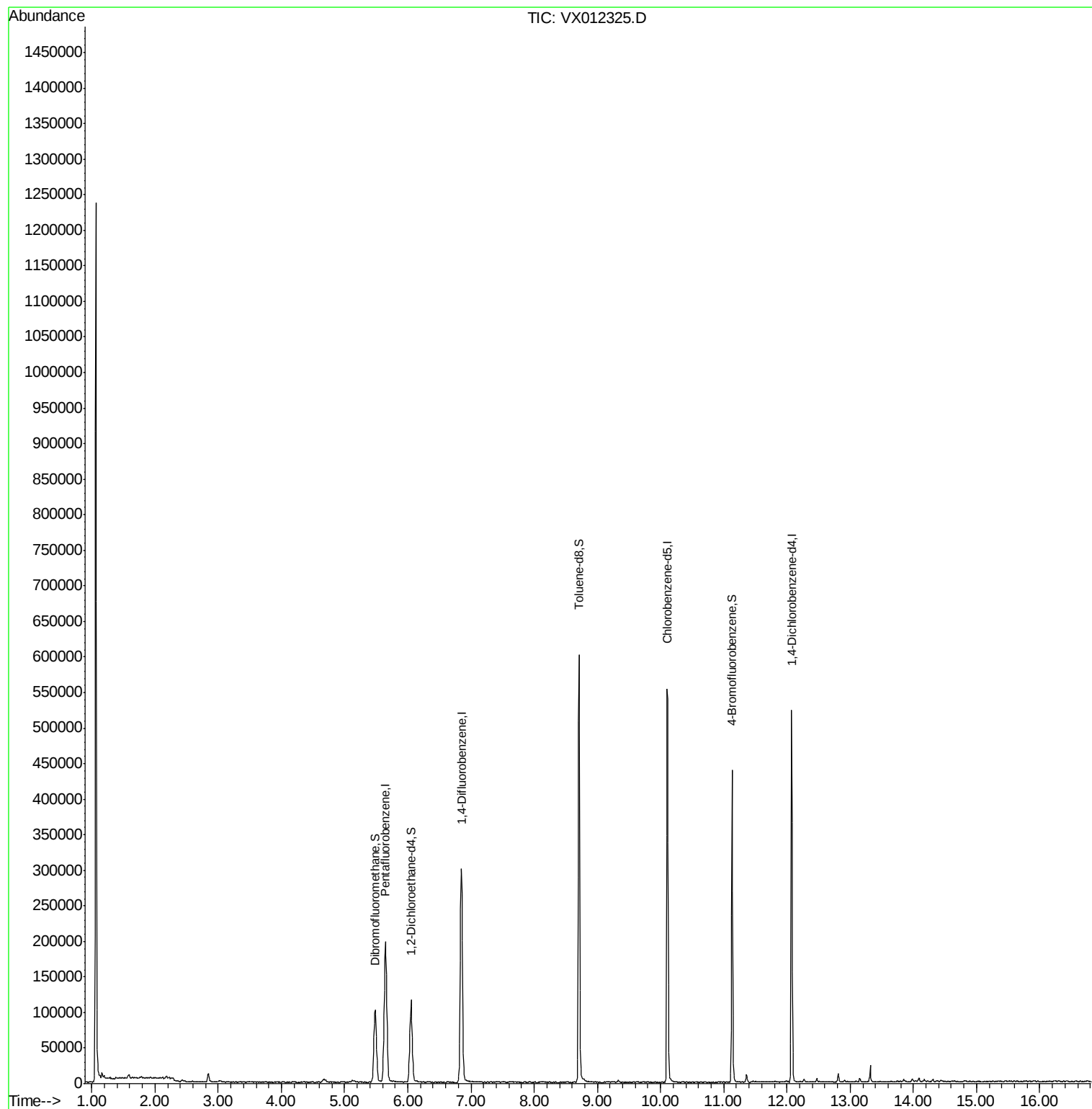
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

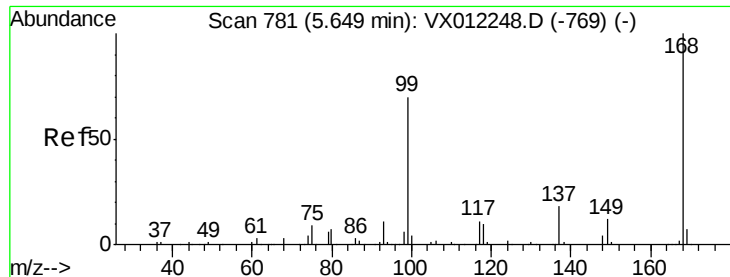
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX012325.D

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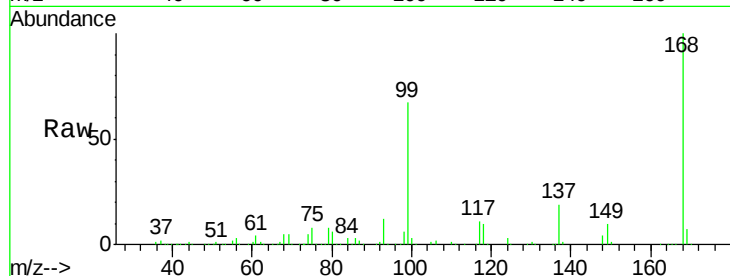
Instrument :  
MSVOA\_X  
ClientSampleId :  
T1-4-(0)

Tot Ion:168 Resp: 168638

Ion Ratio Lower Upper

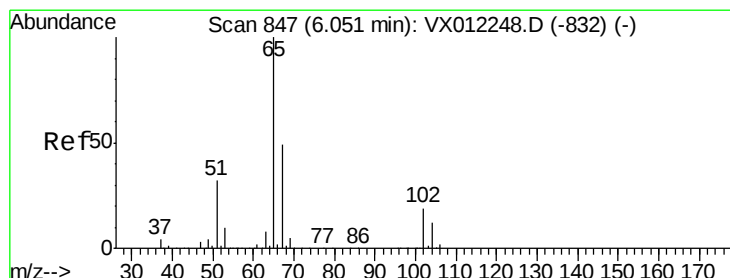
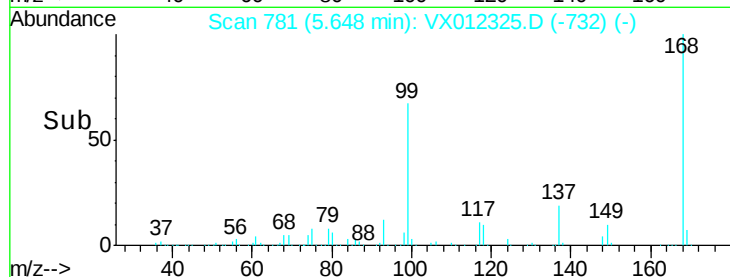
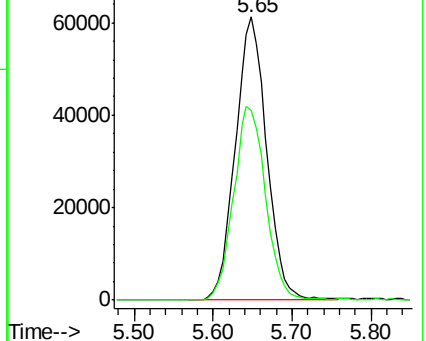
168 100

99 67.0 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: 48.564 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012325.D

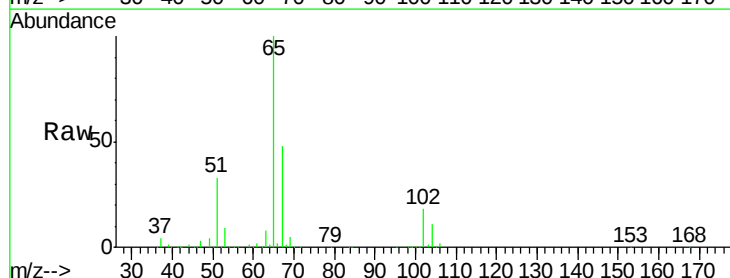
Acq: 12 Sep 2019 02:46

Tgt Ion: 65 Resp: 115788

Ion Ratio Lower Upper

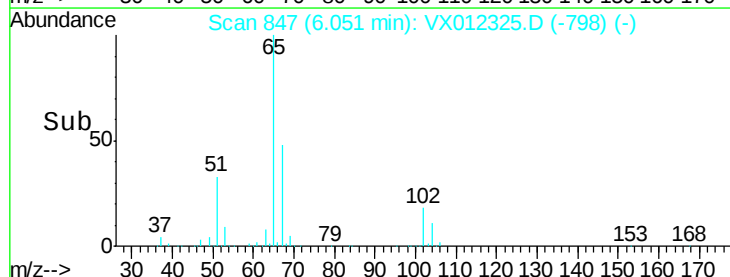
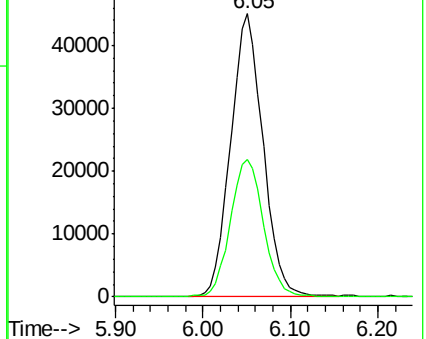
65 100

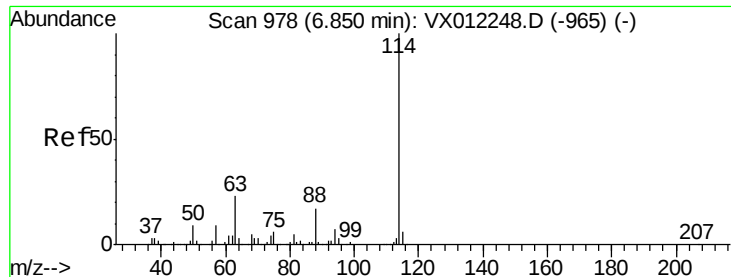
67 49.9 0.0 99.8



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: VX012325.D

Acq: 12 Sep 2019 02:46

Instrument :

MSVOA\_X

ClientSampleId :

T1-4-(0)

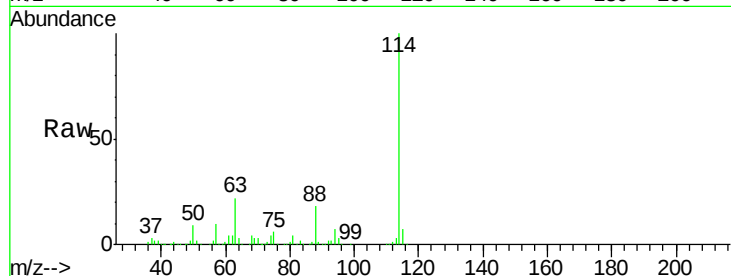
Tot Ion:114 Resp: 289642

Ion Ratio Lower Upper

114 100

63 21.7 0.0 45.2

88 17.6 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

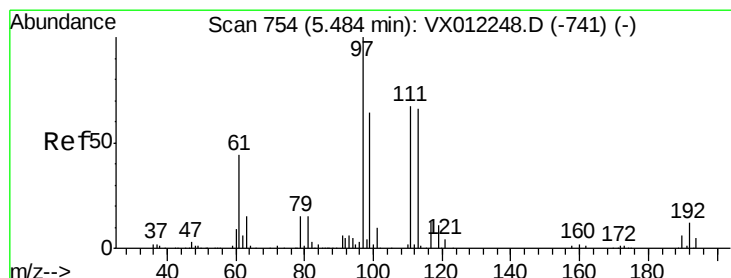
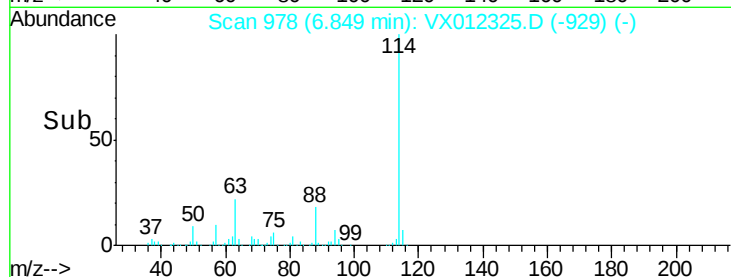
50000

0

6.85

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 46.828 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012325.D

Acq: 12 Sep 2019 02:46

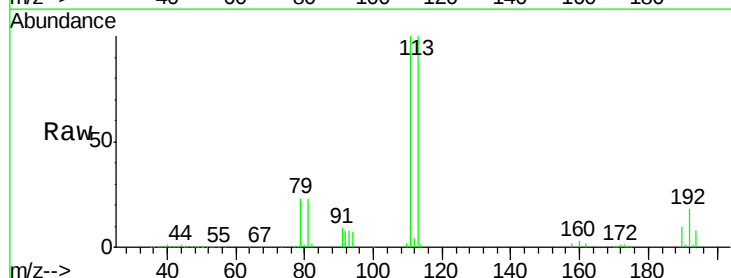
Tgt Ion:113 Resp: 86947

Ion Ratio Lower Upper

113 100

111 100.9 83.0 124.6

192 17.9 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

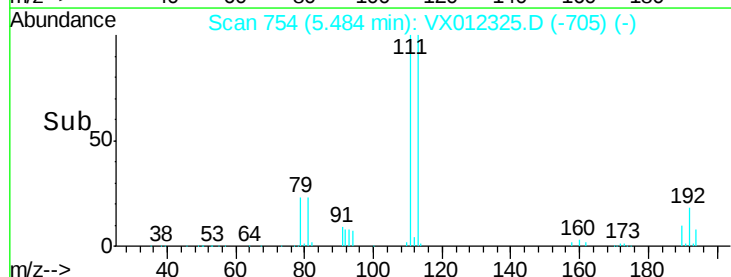
10000

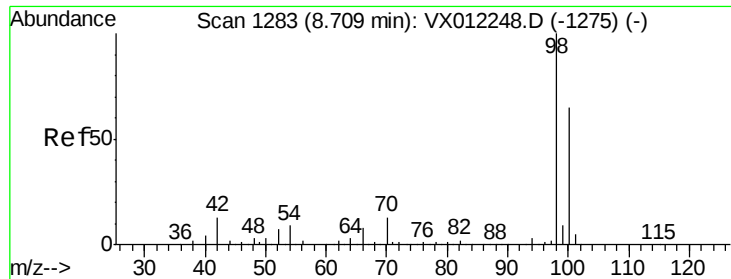
0

5.48

5.40 5.50 5.60

Time-->

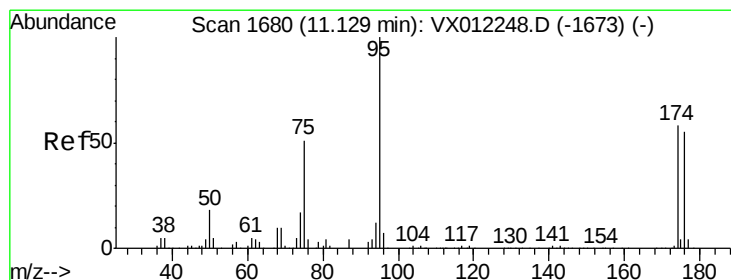
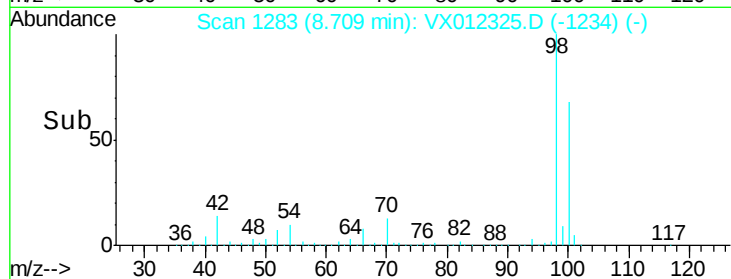
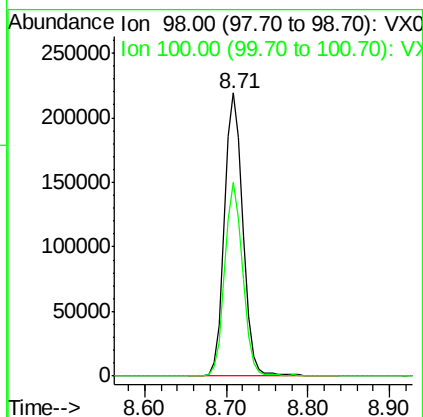
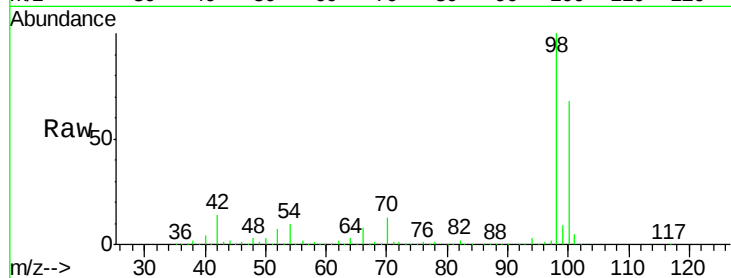




#50  
Toluene-d8  
Concen: 52.497 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX012325.D  
Acq: 12 Sep 2019 02:46

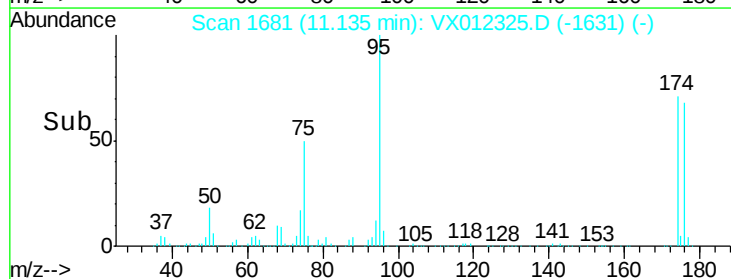
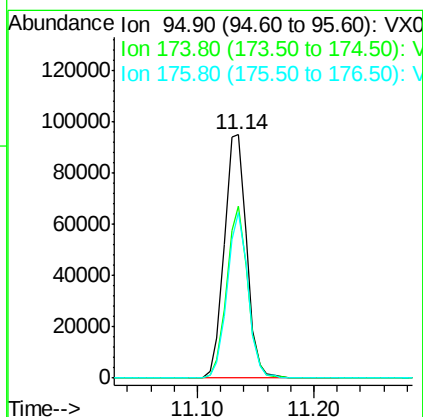
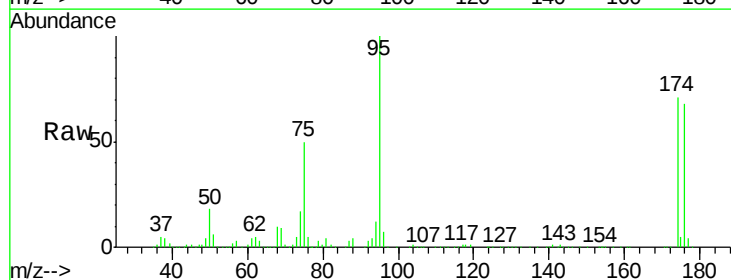
Instrument :  
MSVOA\_X  
ClientSampleId :  
T1-4-(0)

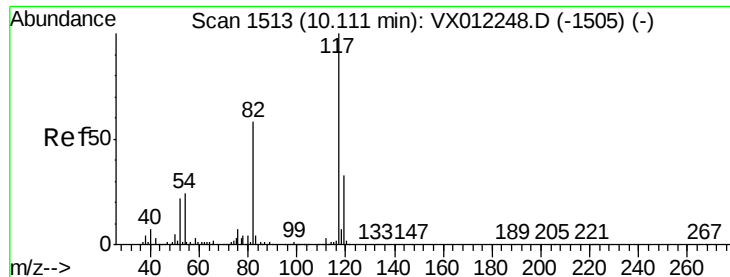
Tot Ion: 98 Resp: 341875  
Ion Ratio Lower Upper  
98 100  
100 66.9 54.1 81.1



#62  
4-Bromofluorobenzene  
Concen: 41.842 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.01 min  
Lab File: VX012325.D  
Acq: 12 Sep 2019 02:46

Tgt Ion: 95 Resp: 126324  
Ion Ratio Lower Upper  
95 100  
174 66.5 0.0 127.0  
176 63.7 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: VX012325.D

Acq: 12 Sep 2019 02:46

Instrument :

MSVOA\_X

ClientSampleId :

T1-4-(0)

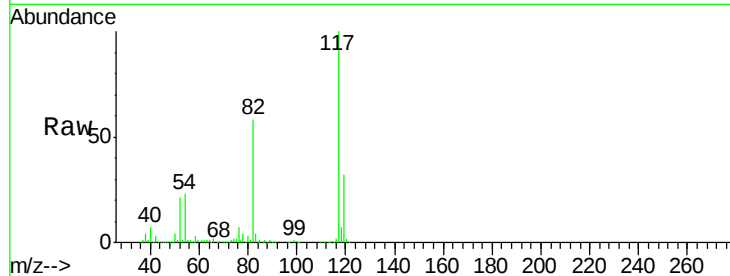
Tot Ion:117 Resp: 248709

Ion Ratio Lower Upper

117 100

82 58.0 46.4 69.6

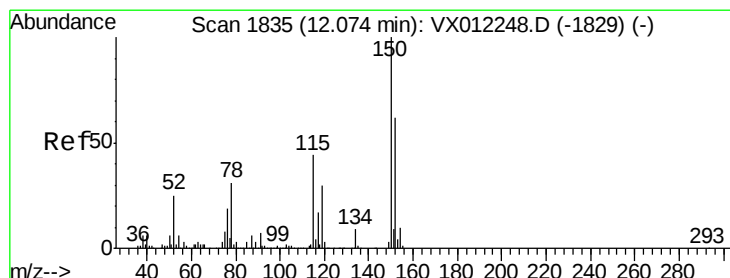
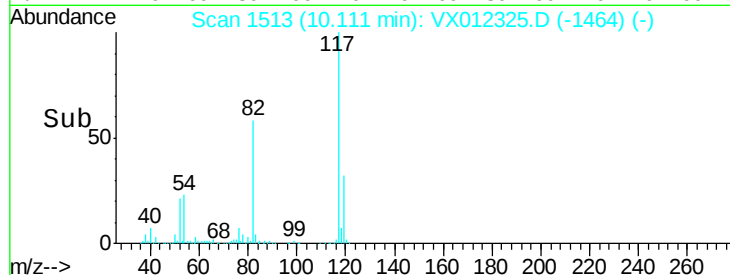
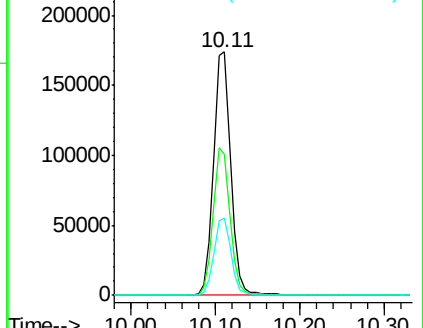
119 31.6 26.6 39.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

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: VX012325.D

Acq: 12 Sep 2019 02:46

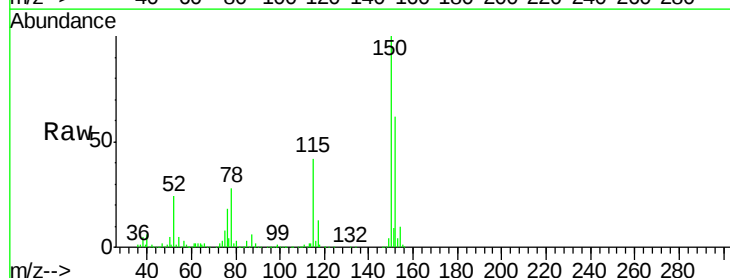
Tgt Ion:152 Resp: 98613

Ion Ratio Lower Upper

152 100

115 66.7 45.5 136.4

150 160.2 0.0 346.4



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

