

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090619\  
 Data File : VX012156.D  
 Acq On : 06 Sep 2019 18:56  
 Operator : SY/SP  
 Sample : K4601-13  
 Misc : 5.42g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T12-F3-(0)

Quant Time: Sep 07 02:21:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 15:26:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 150549   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 263400   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 213070   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 74052    | 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   | 105130   | 50.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.22% |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 80178    | 49.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.00%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 303191   | 51.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.02% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 106503   | 38.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 77.06%  |          |

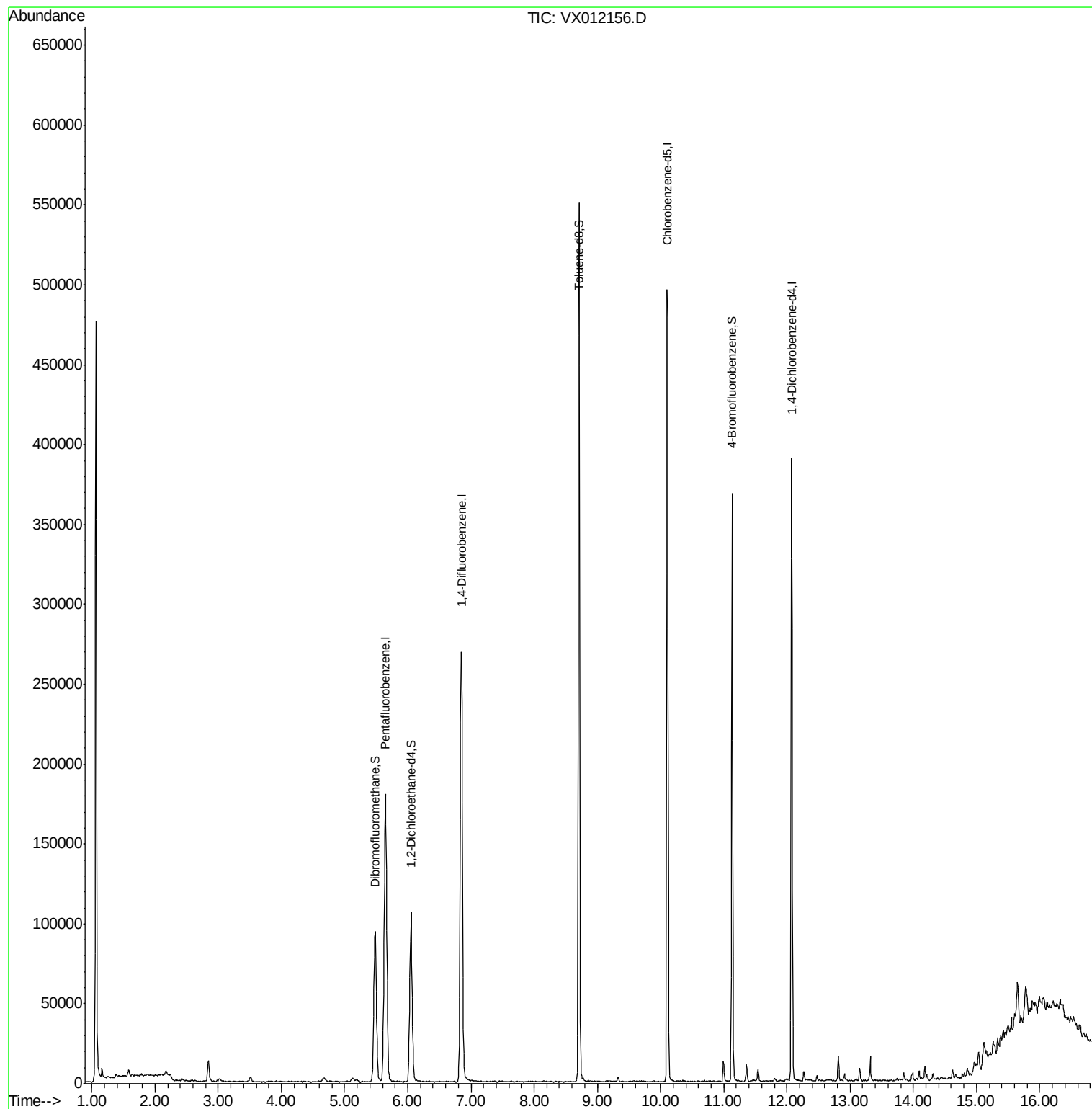
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

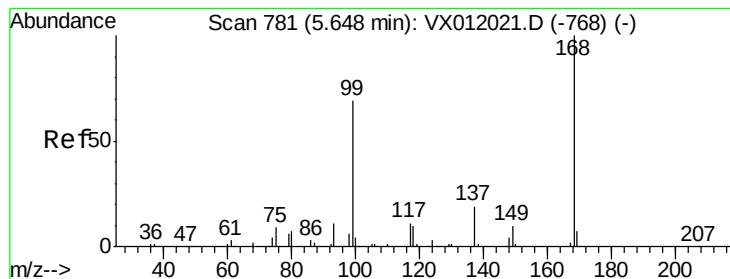
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
T12-F3-(0)

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 03 15:26:48 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: VX012156.D

Acq: 06 Sep 2019 18:56

Instrument :

MSVOA\_X

ClientSampleId :

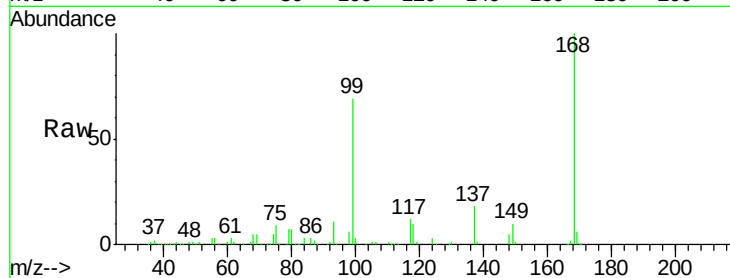
T12-F3-(0)

Tot Ion:168 Resp: 150549

Ion Ratio Lower Upper

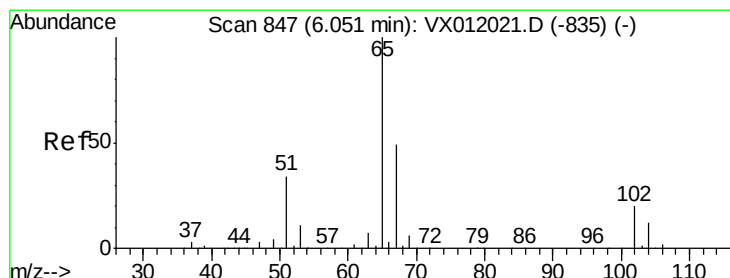
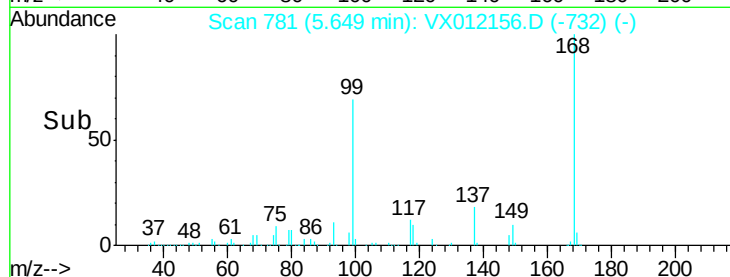
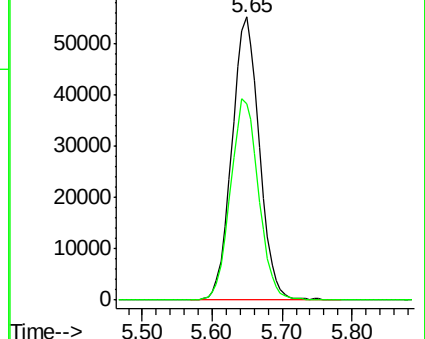
168 100

99 69.2 37.6 56.4#



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: 50.610 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012156.D

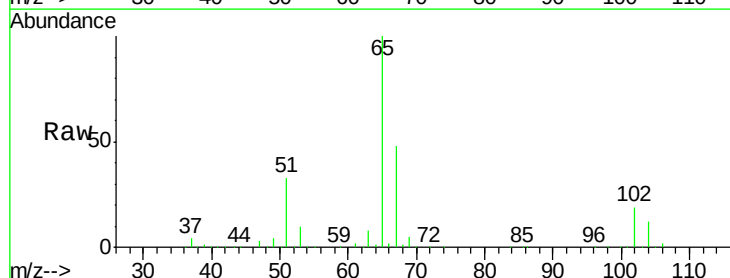
Acq: 06 Sep 2019 18:56

Tgt Ion: 65 Resp: 105130

Ion Ratio Lower Upper

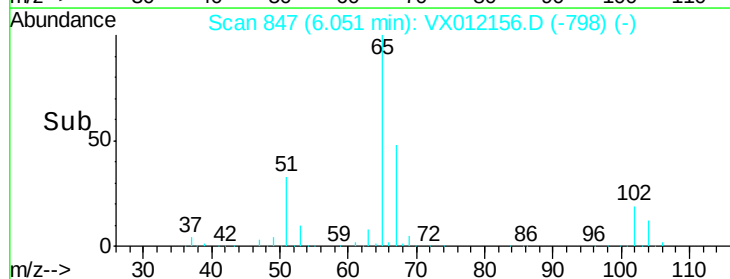
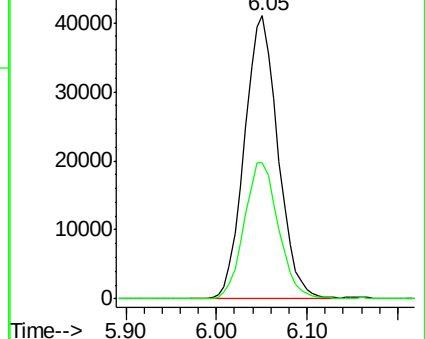
65 100

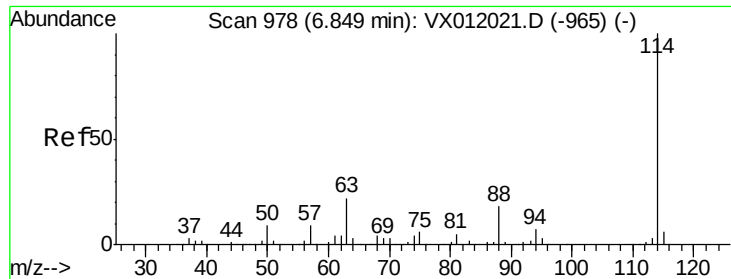
67 49.5 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

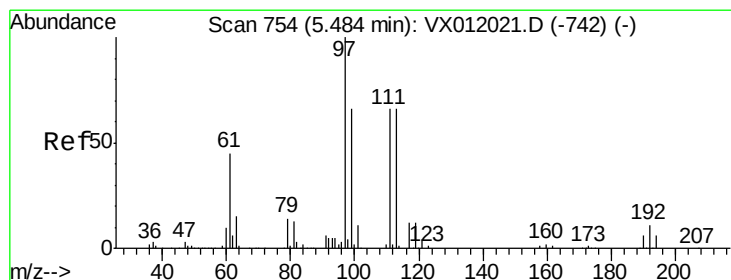
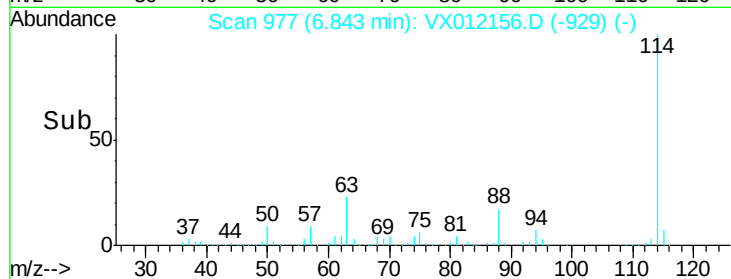
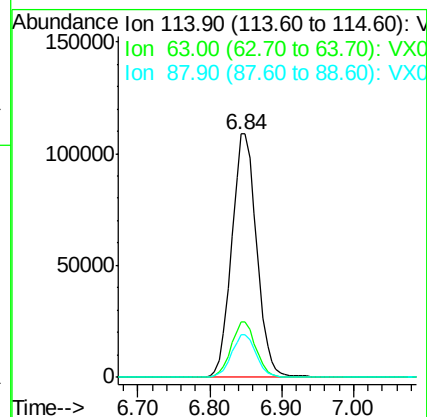
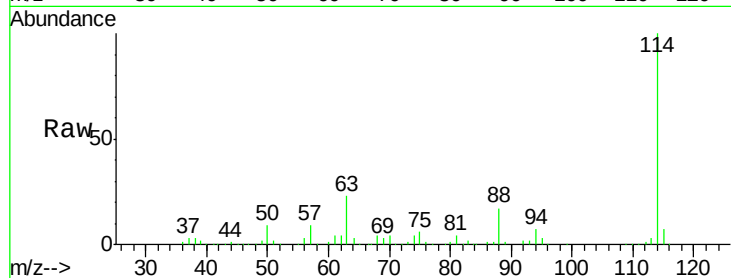




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 977  
 Delta R.T. -0.01 min  
 Lab File: VX012156.D  
 Acq: 06 Sep 2019 18:56

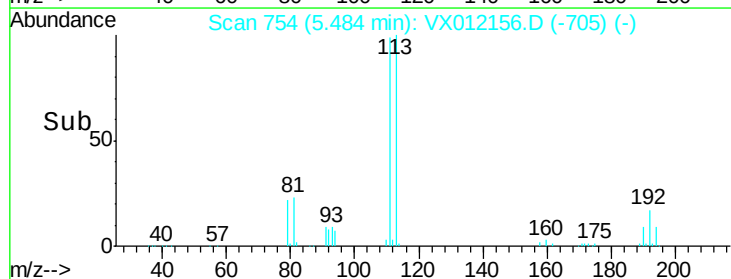
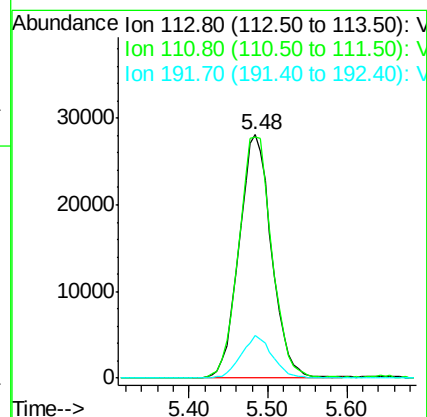
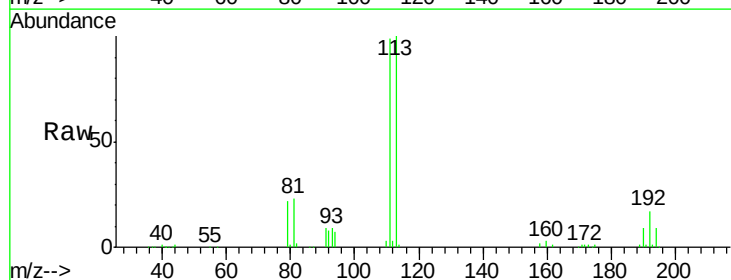
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 T12-F3-(0)

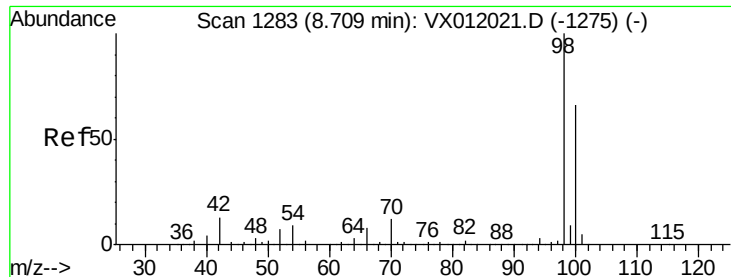
Tot Ion:114 Resp: 263400  
 Ion Ratio Lower Upper  
 114 100  
 63 22.9 0.0 37.4  
 88 17.4 0.0 29.6



#35  
 Dibromofluoromethane  
 Concen: 49.498 ug/l  
 RT: 5.48 min Scan# 754  
 Delta R.T. -0.00 min  
 Lab File: VX012156.D  
 Acq: 06 Sep 2019 18:56

Tgt Ion:113 Resp: 80178  
 Ion Ratio Lower Upper  
 113 100  
 111 101.5 81.7 122.5  
 192 16.8 22.5 33.7#

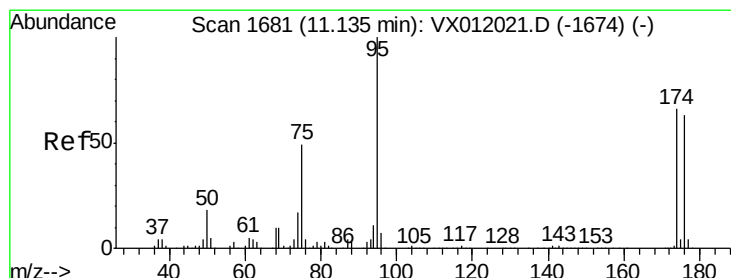
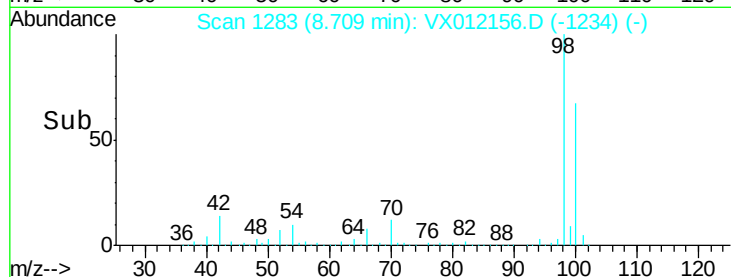
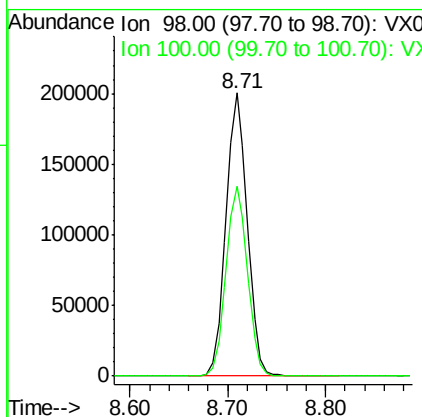
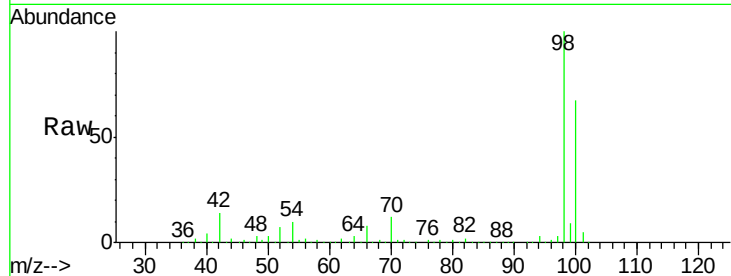




#50  
Toluene-d8  
Concen: 51.007 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX012156.D  
Acq: 06 Sep 2019 18:56

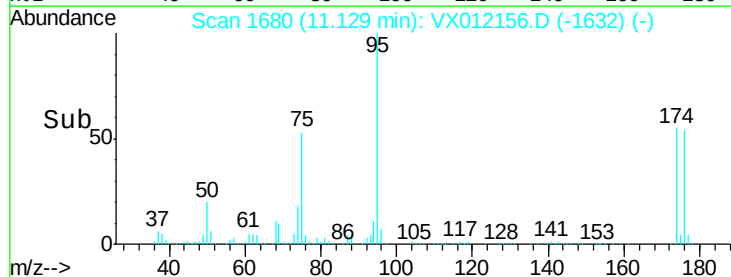
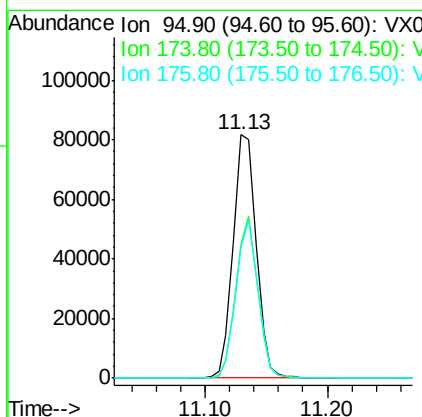
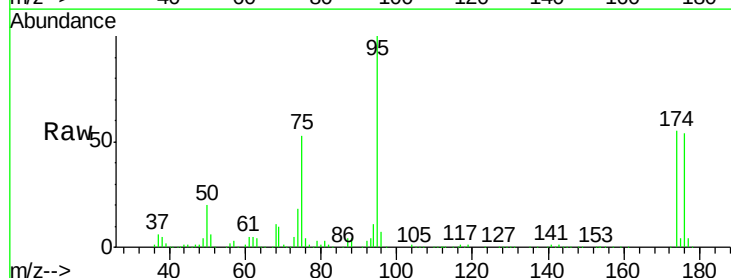
Instrument :  
MSVOA\_X  
ClientSampleId :  
T12-F3-(0)

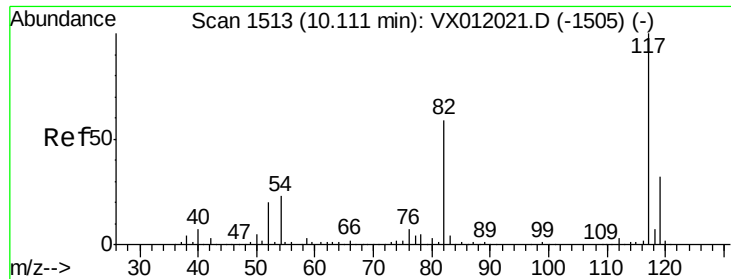
Tot Ion: 98 Resp: 303191  
Ion Ratio Lower Upper  
98 100  
100 67.5 53.3 79.9



#62  
4-Bromofluorobenzene  
Concen: 38.528 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. -0.01 min  
Lab File: VX012156.D  
Acq: 06 Sep 2019 18:56

Tgt Ion: 95 Resp: 106503  
Ion Ratio Lower Upper  
95 100  
174 62.4 0.0 205.4  
176 62.0 0.0 201.8

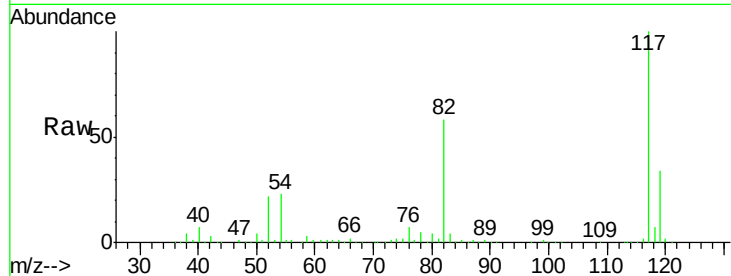




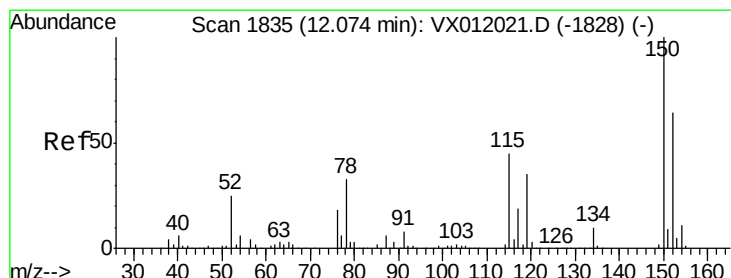
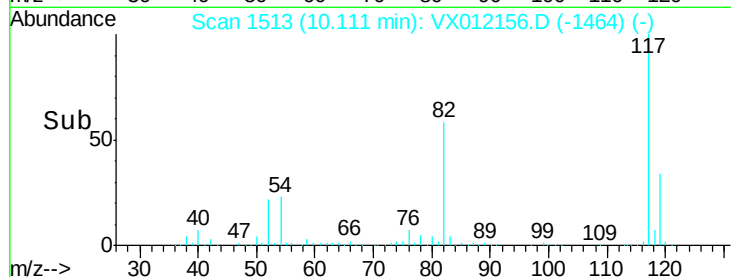
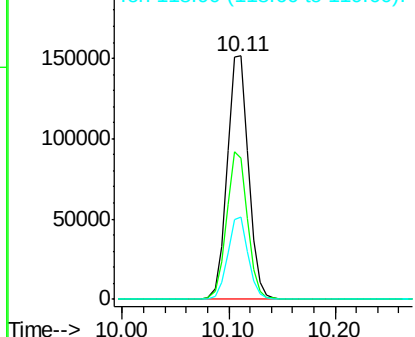
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX012156.D  
Acq: 06 Sep 2019 18:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
T12-F3-(0)

Tot Ion:117 Resp: 213070  
Ion Ratio Lower Upper  
117 100  
82 58.1 39.4 59.0  
119 33.6 26.1 39.1

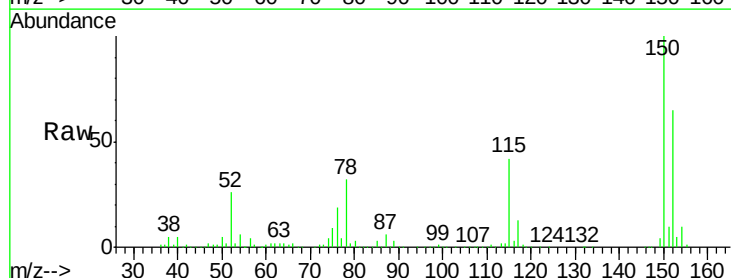


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX012156.D  
Acq: 06 Sep 2019 18:56

Tgt Ion:152 Resp: 74052  
Ion Ratio Lower Upper  
152 100  
115 65.5 36.4 109.3  
150 153.4 0.0 341.2



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

