

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100919\  
 Data File : VX012942.D  
 Acq On : 09 Oct 2019 14:59  
 Operator : JC/SP  
 Sample : K5234-09  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FA19-MMW0127

Quant Time: Oct 10 03:57:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X100819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 09 01:51:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 174476   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 291521   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 244256   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 90738    | 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   | 113812   | 52.19 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.38% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 87585    | 52.35 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.70% |          |
| 50) Toluene-d8              | 8.71  | 98   | 340092   | 52.12 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.24% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 113613   | 44.81 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 89.62%  |          |

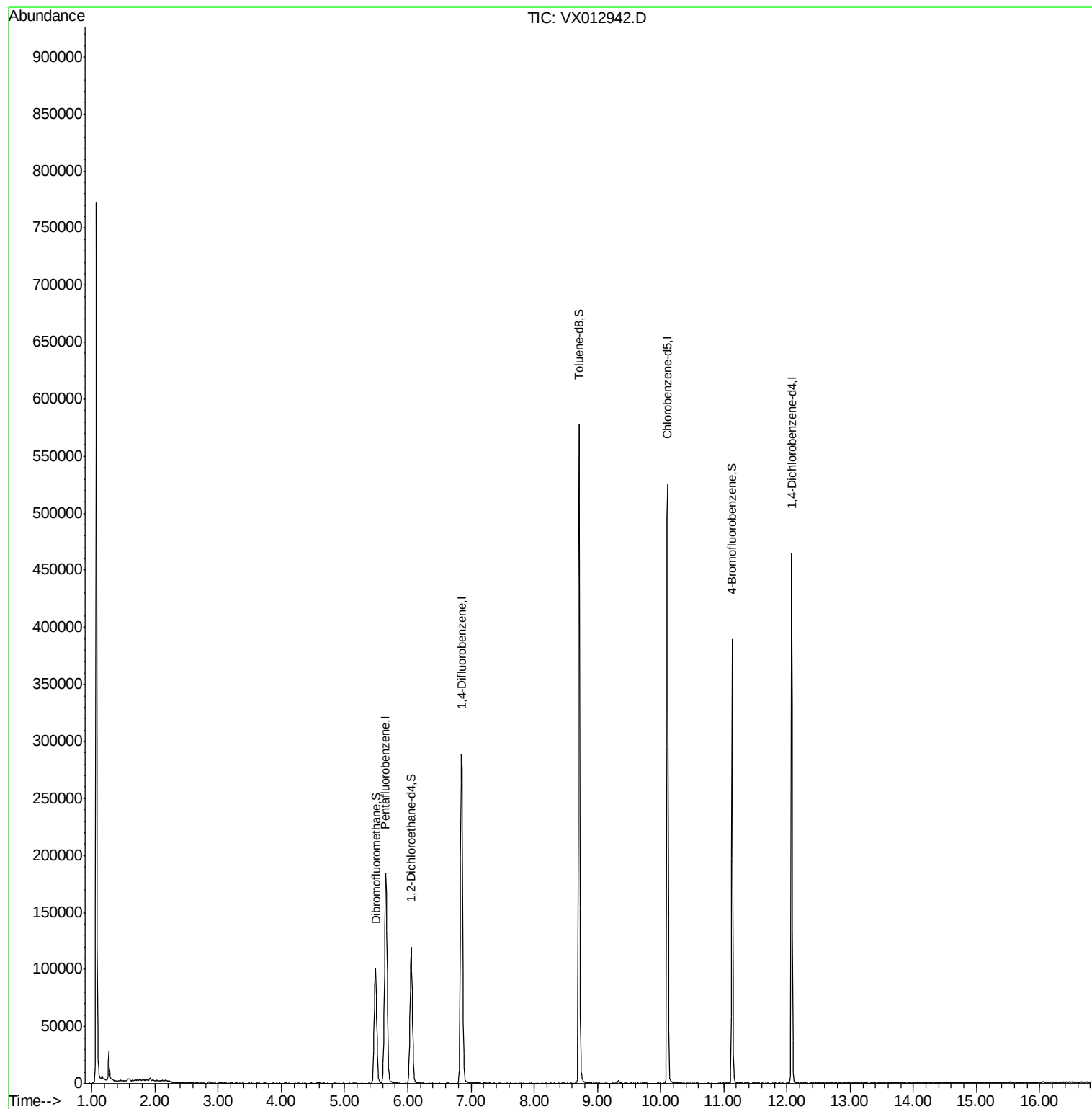
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

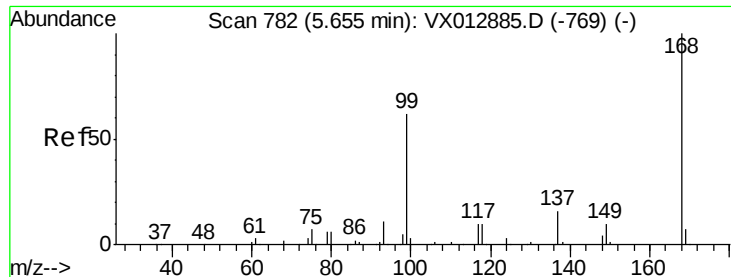
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X100819W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 09 01:51:23 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX012942.D

Acq: 09 Oct 2019 14:59

Instrument :

MSVOA\_X

ClientSampleId :

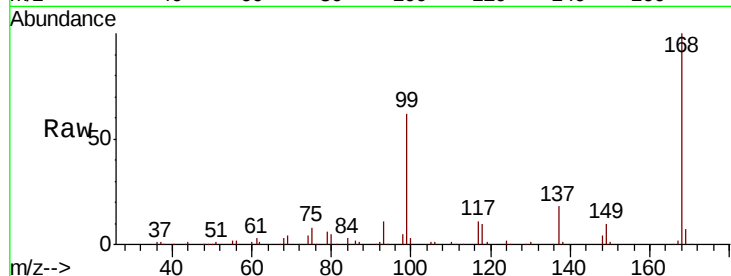
FA19-MMW0127

Tot Ion:168 Resp: 174476

Ion Ratio Lower Upper

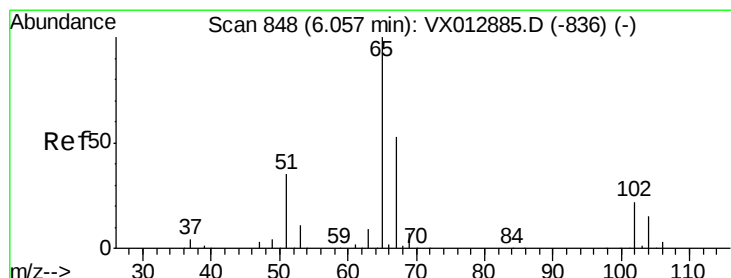
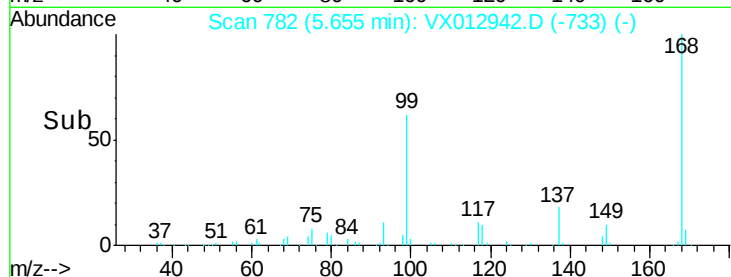
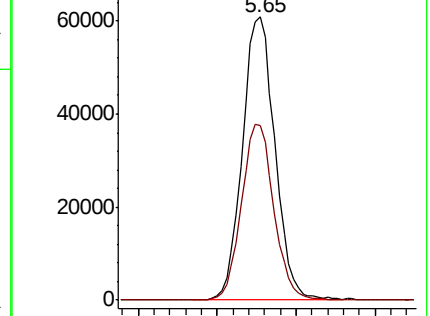
168 100

99 61.8 49.4 74.0



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: 52.190 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX012942.D

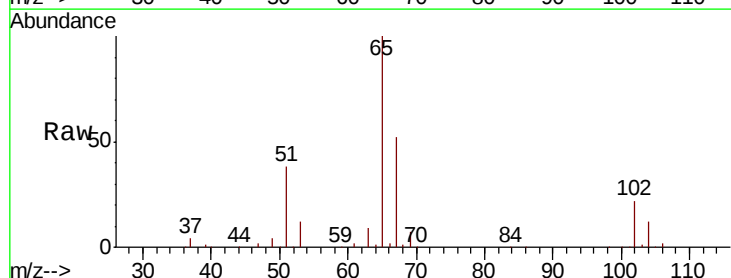
Acq: 09 Oct 2019 14:59

Tgt Ion: 65 Resp: 113812

Ion Ratio Lower Upper

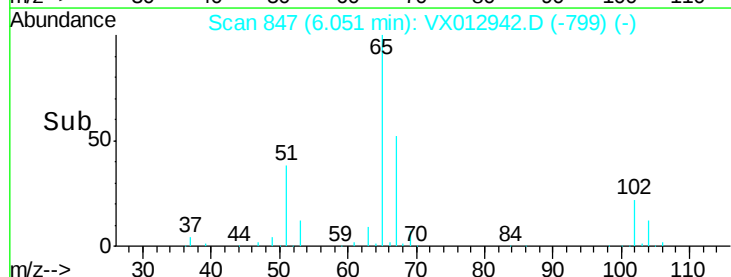
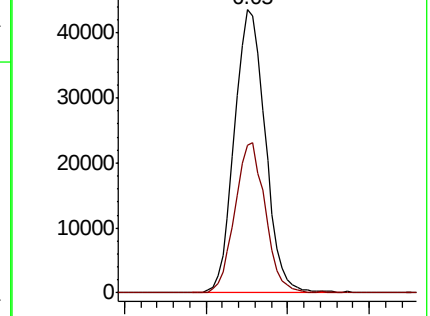
65 100

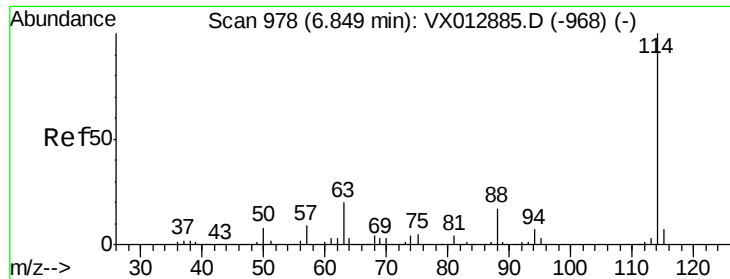
67 52.2 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

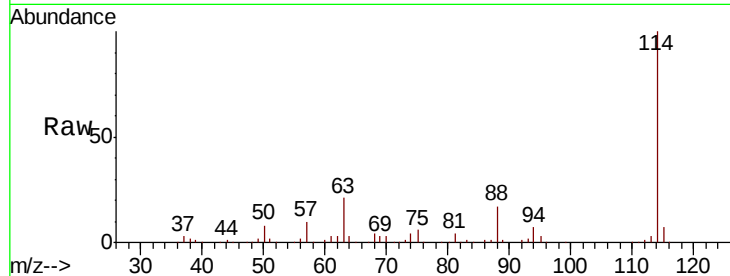




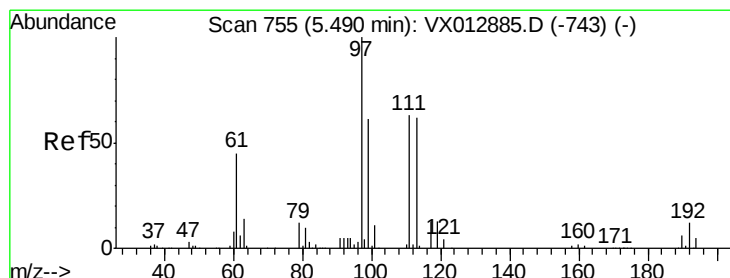
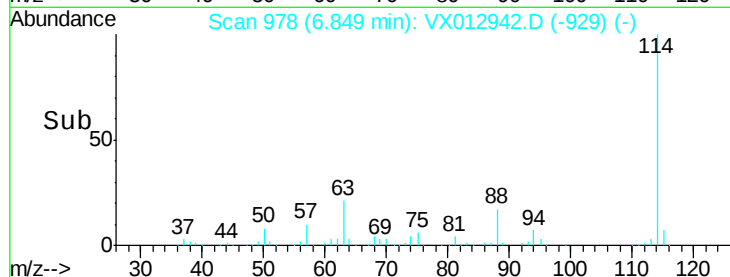
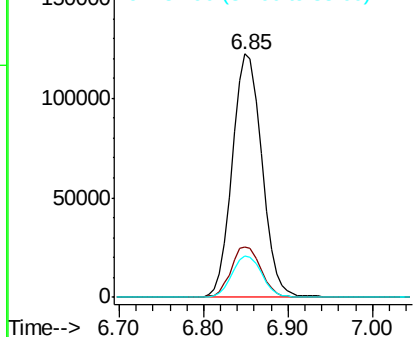
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX012942.D  
 Acq: 09 Oct 2019 14:59

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FA19-MMW0127

Tot Ion:114 Resp: 291521  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 40.8  
 88 17.2 0.0 33.8

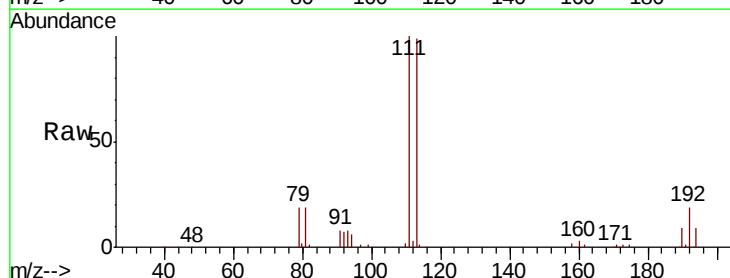


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

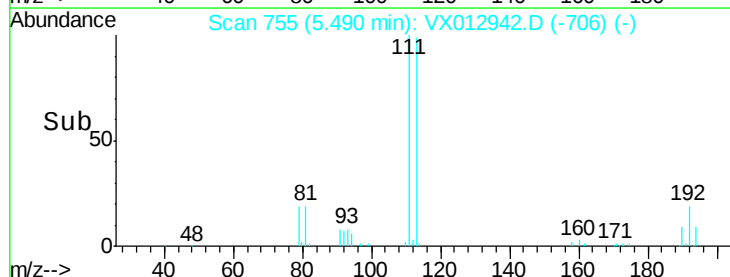
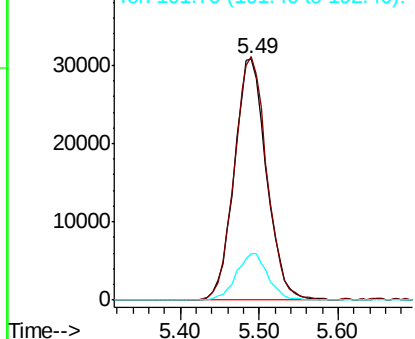


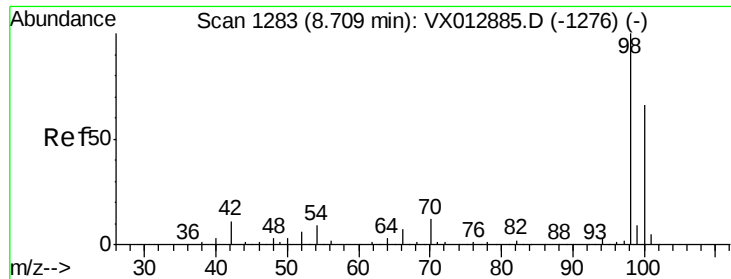
#35  
 Dibromofluoromethane  
 Concen: 52.347 ug/l  
 RT: 5.49 min Scan# 755  
 Delta R.T. -0.00 min  
 Lab File: VX012942.D  
 Acq: 09 Oct 2019 14:59

Tgt Ion:113 Resp: 87585  
 Ion Ratio Lower Upper  
 113 100  
 111 101.3 83.2 124.8  
 192 18.9 15.4 23.2



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

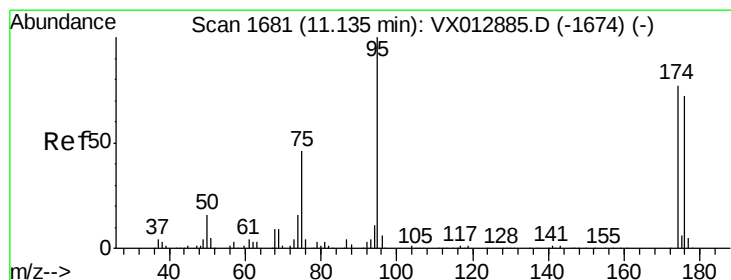
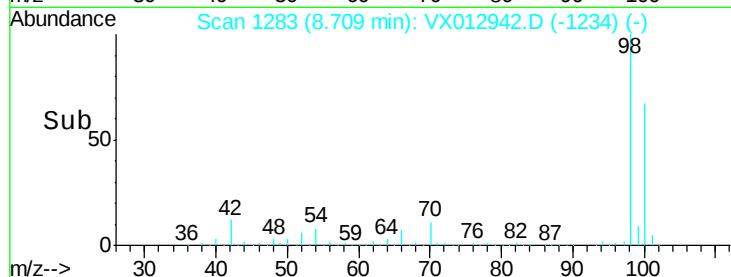
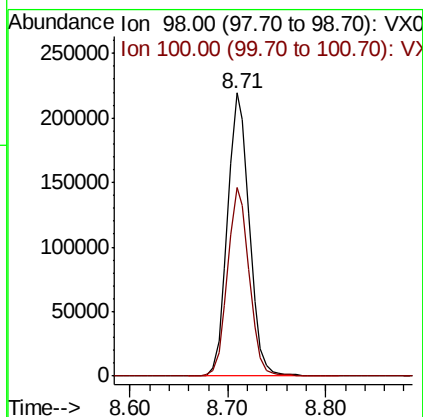
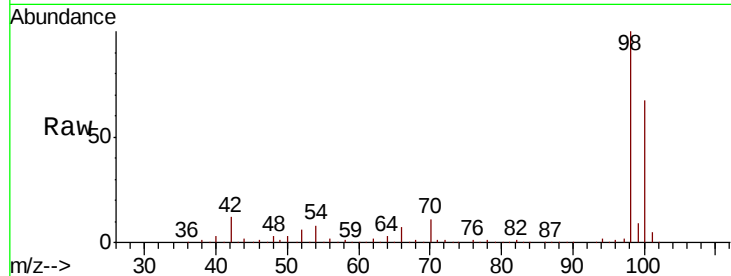




#50  
Toluene-d8  
Concen: 52.115 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX012942.D  
Acq: 09 Oct 2019 14:59

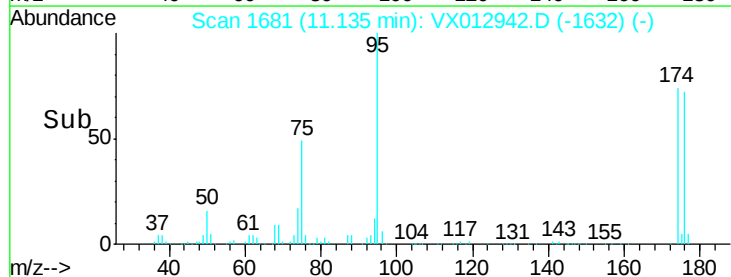
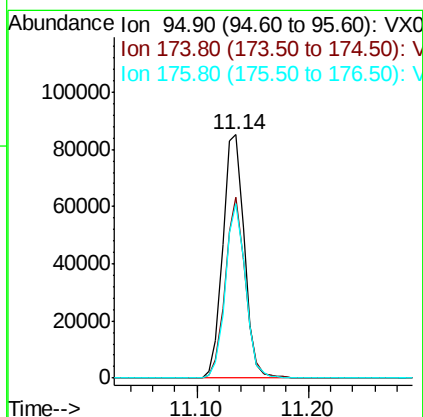
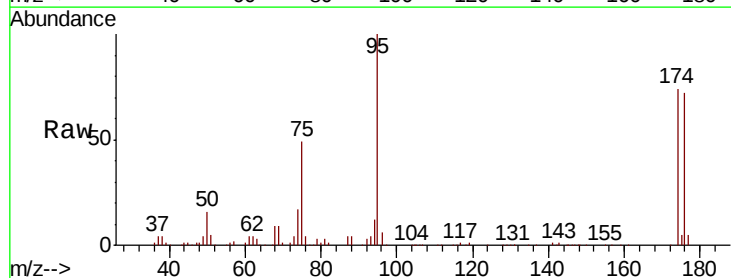
Instrument :  
MSVOA\_X  
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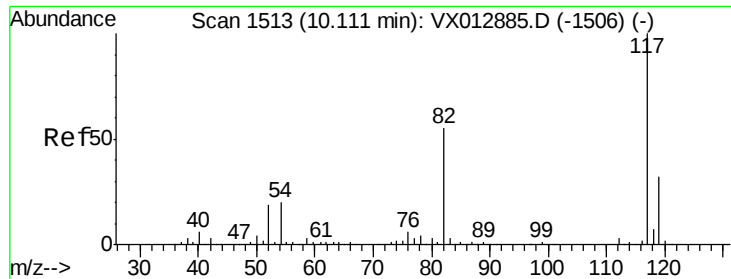
Tot Ion: 98 Resp: 340092  
Ion Ratio Lower Upper  
98 100  
100 66.0 53.4 80.2



#62  
4-Bromofluorobenzene  
Concen: 44.806 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. -0.00 min  
Lab File: VX012942.D  
Acq: 09 Oct 2019 14:59

Tgt Ion: 95 Resp: 113613  
Ion Ratio Lower Upper  
95 100  
174 69.3 0.0 143.4  
176 67.4 0.0 136.0

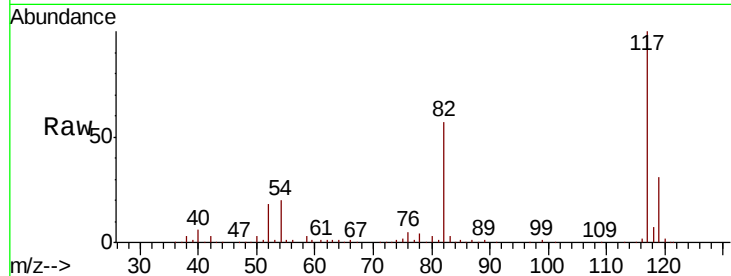




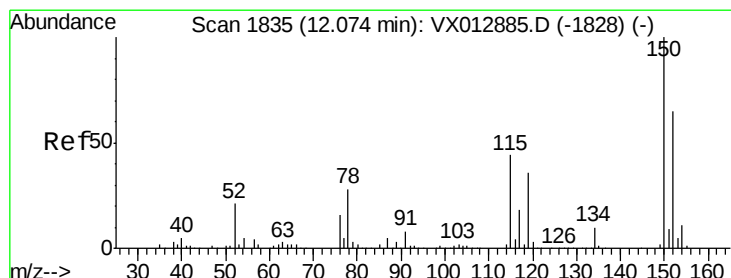
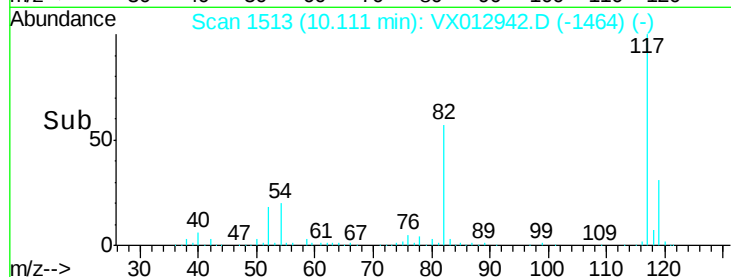
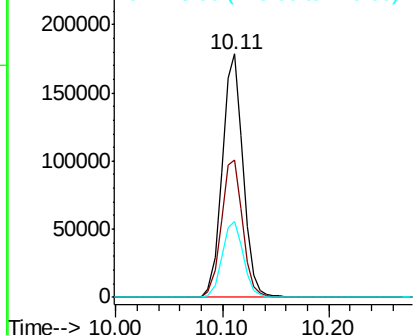
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX012942.D  
Acq: 09 Oct 2019 14:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
FA19-MMW0127

Tot Ion:117 Resp: 244256  
Ion Ratio Lower Upper  
117 100  
82 56.6 44.1 66.1  
119 31.4 25.8 38.8

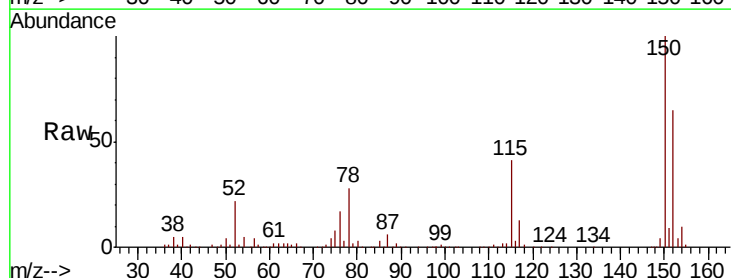


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX012942.D  
Acq: 09 Oct 2019 14:59

Tgt Ion:152 Resp: 90738  
Ion Ratio Lower Upper  
152 100  
115 64.0 44.5 133.5  
150 155.7 0.0 353.4



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

