

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091819\  
 Data File : VW013148.D  
 Acq On : 19 Sep 2019 07:58  
 Operator : SY/VA  
 Sample : K4825-10  
 Misc : 3.85G/5ML/MSVOA W/SOIL  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CSA-4-2-1

Quant Time: Sep 19 09:54:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 13 17:26:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 367250   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 562445   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 381522   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 98750    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.30   | 65  | 166854   | 49.19 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.38%  |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 160163   | 52.48 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.96% |      |
| 50) Toluene-d8              | 10.32  | 98  | 599222   | 50.18 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.36% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 136599   | 31.81 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 63.62%  |      |

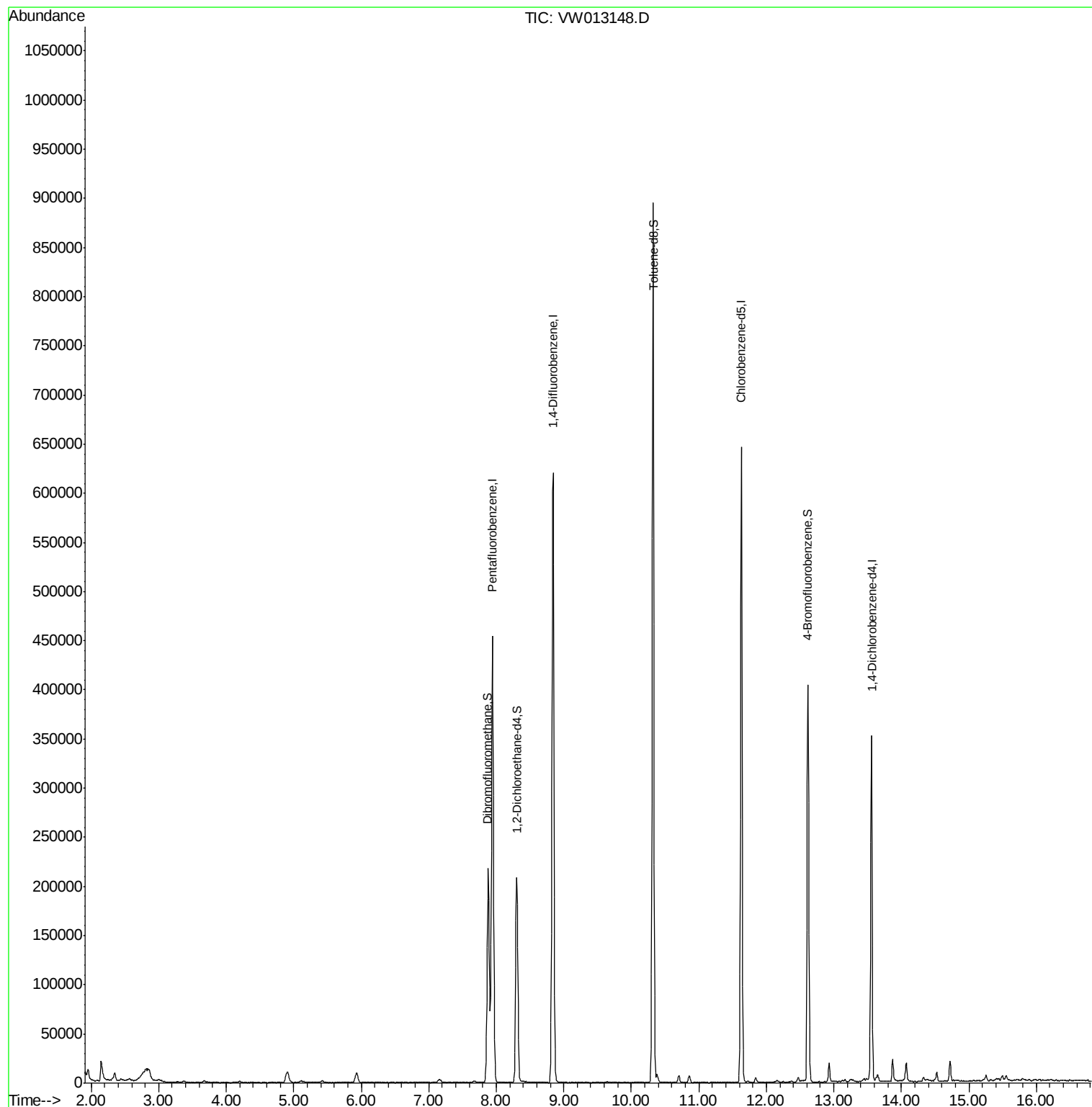
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

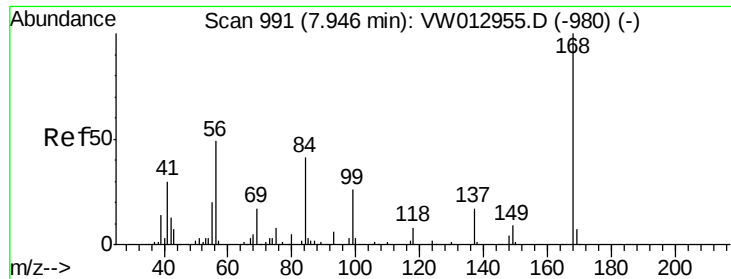
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Sep 13 17:26:01 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013148.D

Acq: 19 Sep 2019 07:58

Instrument :

MSVOA\_W

ClientSampleId :

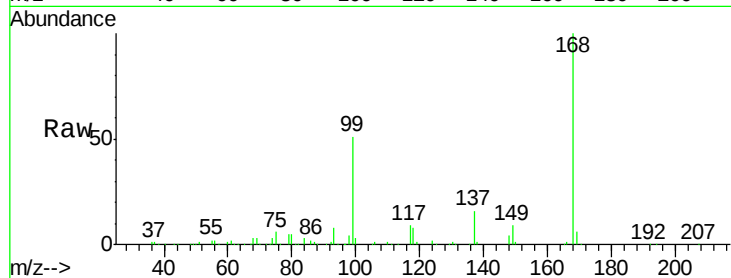
CSA-4-2-1

Tot Ion:168 Resp: 367250

Ion Ratio Lower Upper

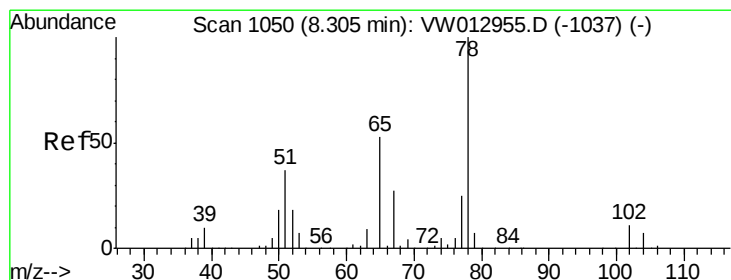
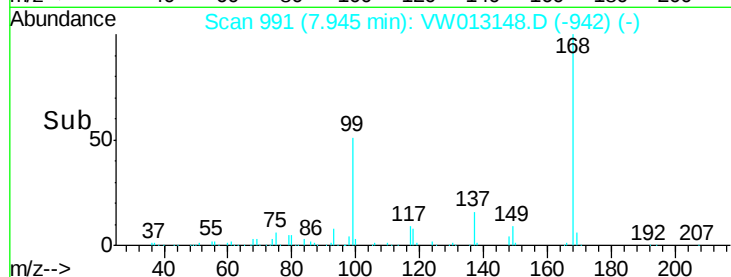
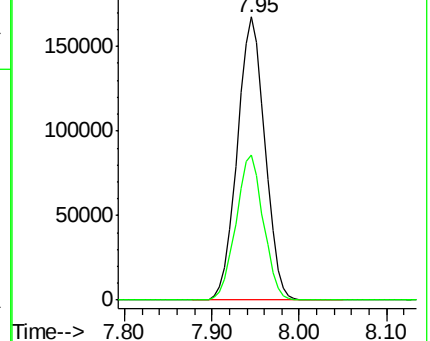
168 100

99 51.4 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#33

1,2-Dichloroethane-d4

Concen: 49.193 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW013148.D

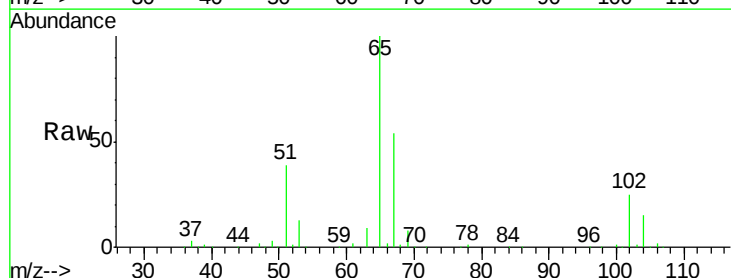
Acq: 19 Sep 2019 07:58

Tgt Ion: 65 Resp: 166854

Ion Ratio Lower Upper

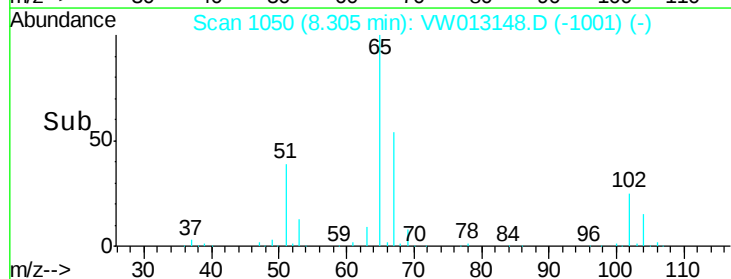
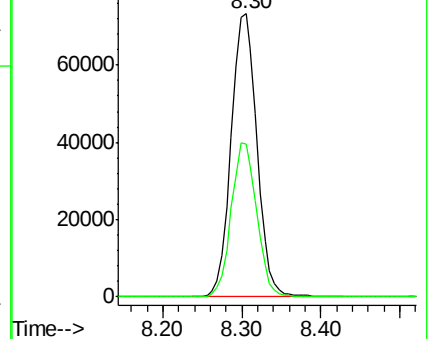
65 100

67 53.7 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

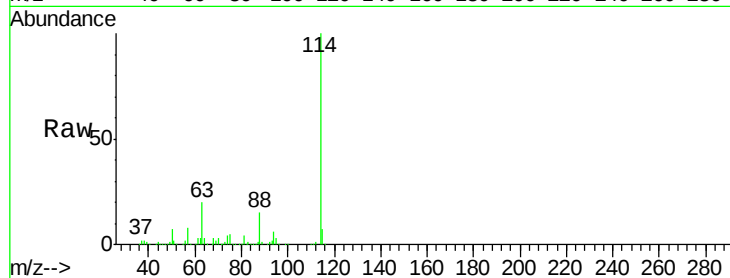




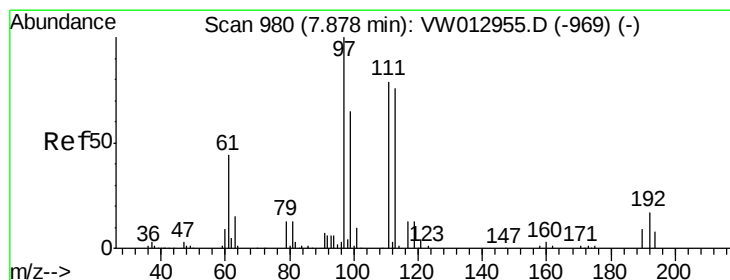
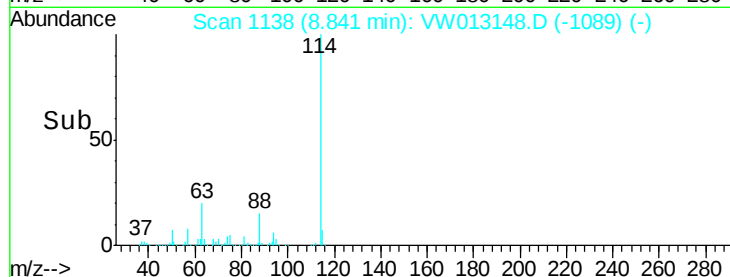
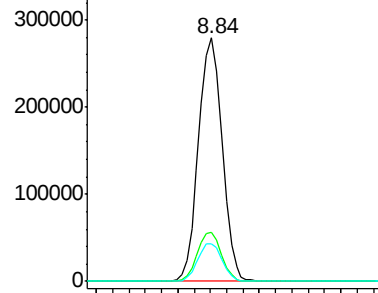
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW013148.D  
 Acq: 19 Sep 2019 07:58

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CSA-4-2-1

Tot Ion:114 Resp: 562445  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 0.0 43.4  
 88 15.3 0.0 31.6

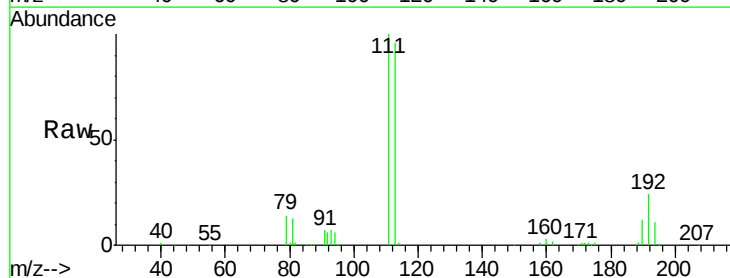


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

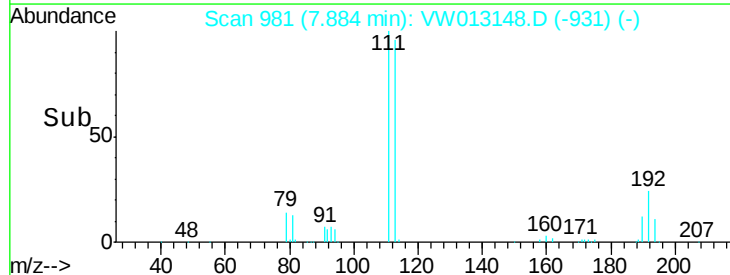
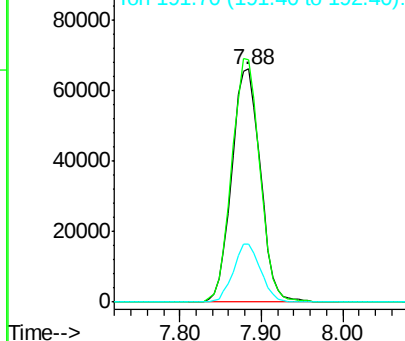


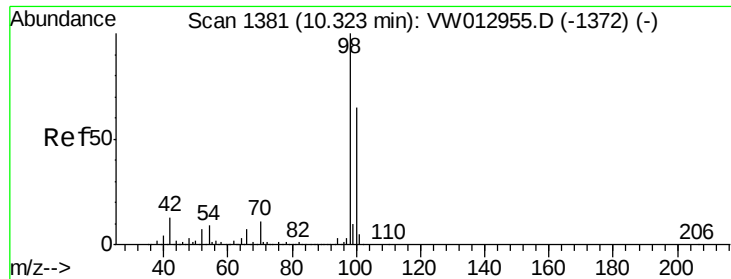
#35  
 Dibromofluoromethane  
 Concen: 52.480 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.01 min  
 Lab File: VW013148.D  
 Acq: 19 Sep 2019 07:58

Tgt Ion:113 Resp: 160163  
 Ion Ratio Lower Upper  
 113 100  
 111 102.3 82.8 124.2  
 192 23.8 17.8 26.8



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: 50.176 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013148.D

Acq: 19 Sep 2019 07:58

Instrument :

MSVOA\_W

ClientSampleId :

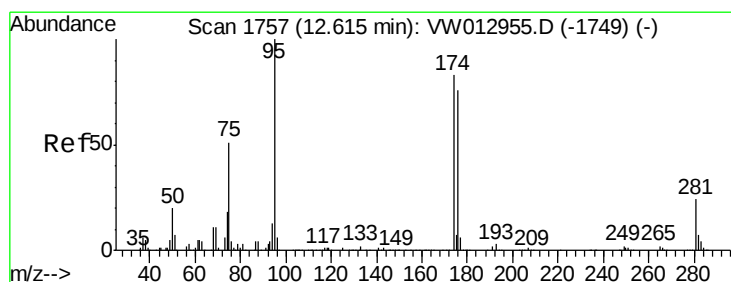
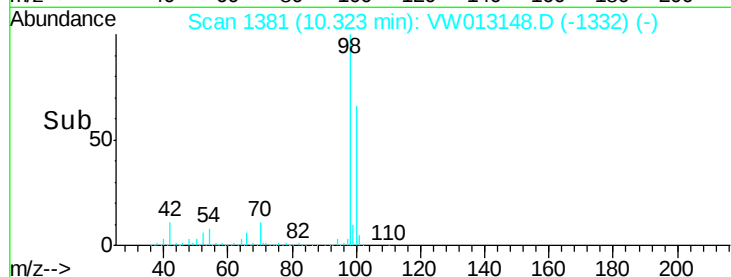
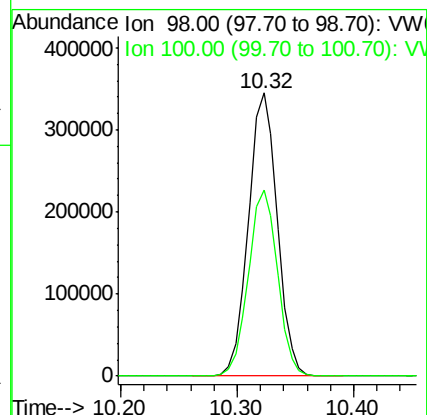
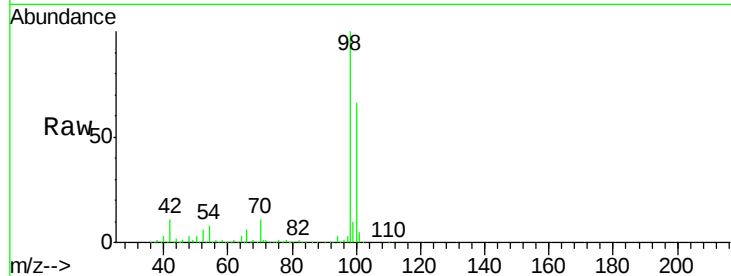
CSA-4-2-1

Tot Ion: 98 Resp: 599222

Ion Ratio Lower Upper

98 100

100 66.3 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 31.810 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013148.D

Acq: 19 Sep 2019 07:58

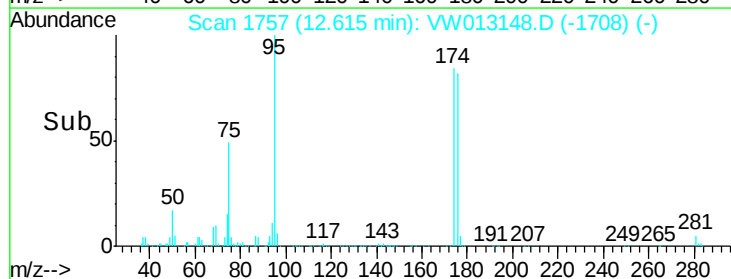
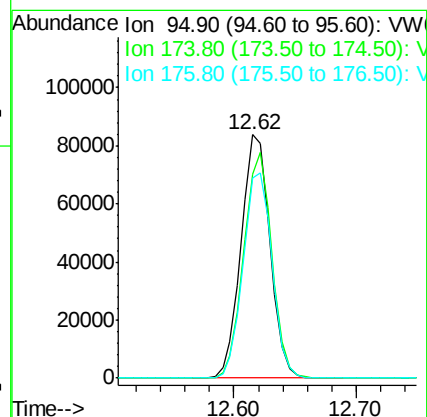
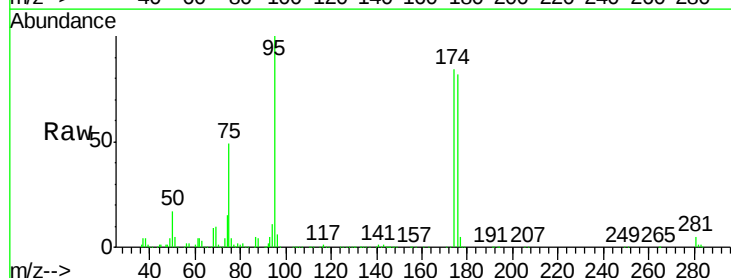
Tgt Ion: 95 Resp: 136599

Ion Ratio Lower Upper

95 100

174 90.5 0.0 170.4

176 85.1 0.0 164.6

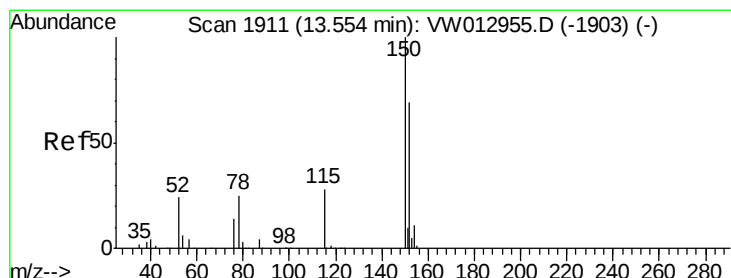
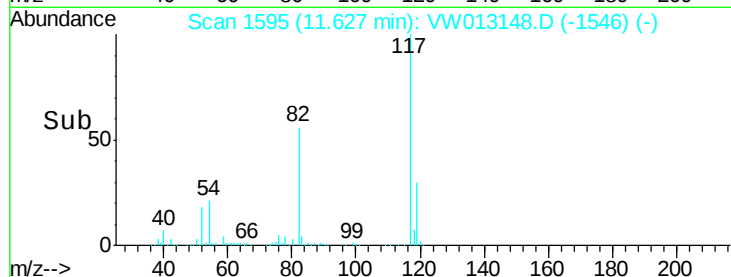
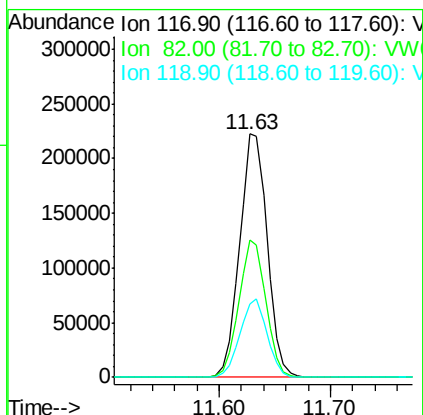
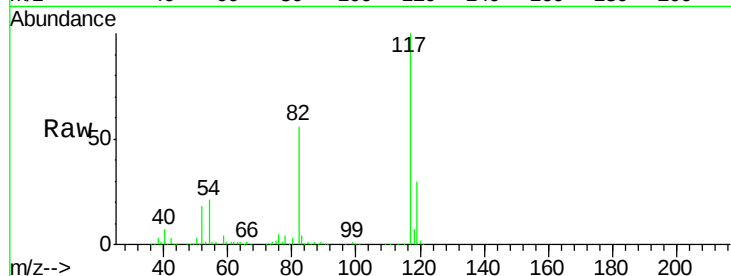




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.00 min  
Lab File: VW013148.D  
Acq: 19 Sep 2019 07:58

Instrument :  
MSVOA\_W  
ClientSampled :  
CSA-4-2-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.4  | 46.3  | 69.5  |
| 119     | 30.2  | 26.2  | 39.4  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.01 min  
Lab File: VW013148.D  
Acq: 19 Sep 2019 07:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.0  | 28.8  | 86.4  |
| 150     | 159.2 | 0.0   | 340.2 |

