

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
 Data File : VW012013.D  
 Acq On : 20 Aug 2019 01:39  
 Operator : SY/VA  
 Sample : K4386-09  
 Misc : 5.17G/5ML/MSVOA W/SOIL  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T8-F-(0)

Quant Time: Aug 20 06:54:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

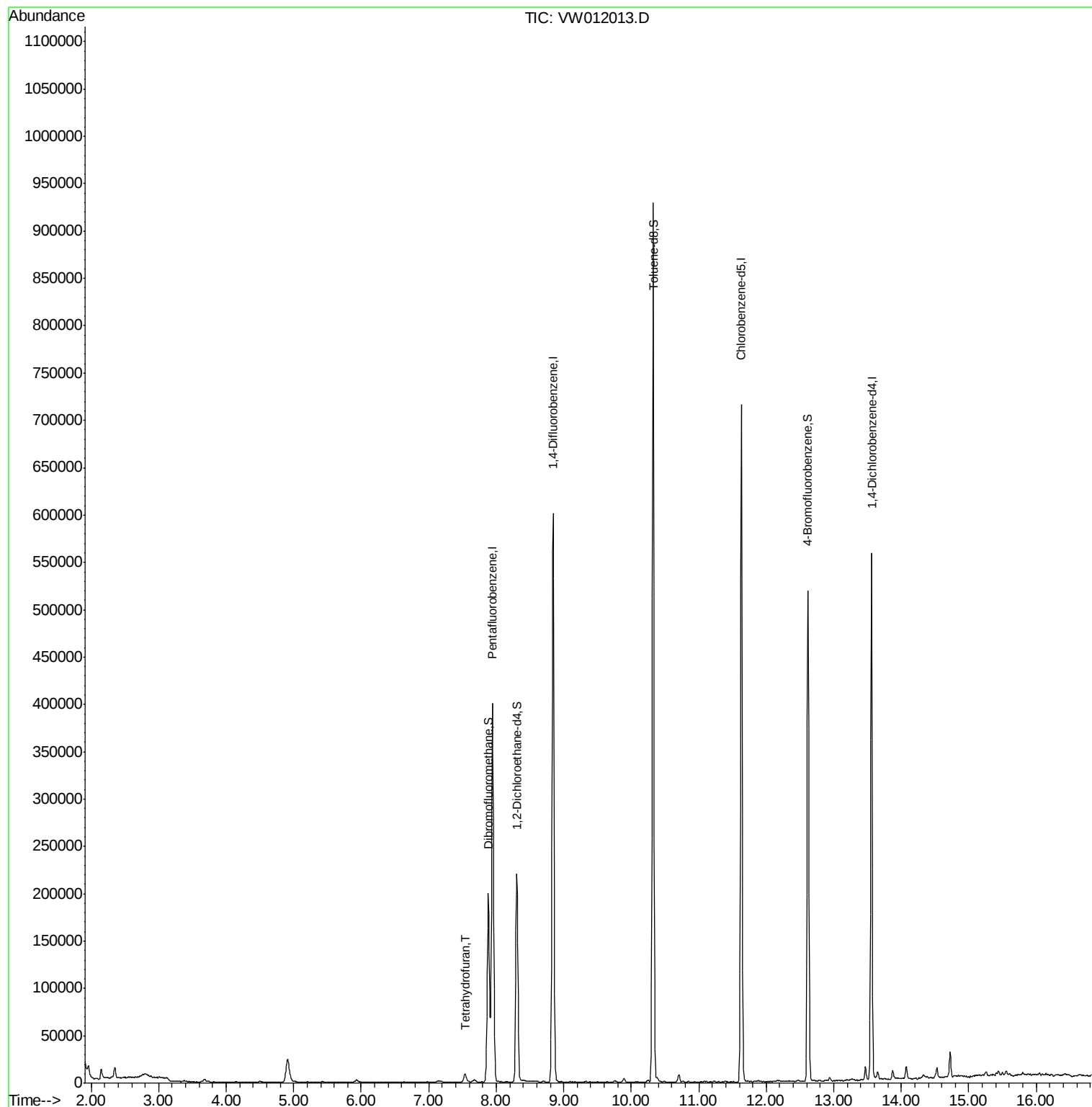
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|---------|-----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 288593   | 50.00  | ug/l    | 0.00      |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 480585   | 50.00  | ug/l    | 0.00      |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 382268   | 50.00  | ug/l    | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 139702   | 50.00  | ug/l    | 0.00      |
| System Monitoring Compounds |       |      |          |        |         |           |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 174142   | 52.55  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 105.10% |           |
| 35) Dibromofluoromethane    | 7.88  | 113  | 144116   | 53.45  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 106.90% |           |
| 50) Toluene-d8              | 10.32 | 98   | 573004   | 51.91  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 103.82% |           |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 172725   | 43.89  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 87.78%  |           |
| Target Compounds            |       |      |          |        |         |           |
| 29) Tetrahydrofuran         | 7.54  | 42   | 8117     | 10.295 | ug/l    | Qvalue 99 |

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

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T8-F-(0)

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 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: VW012013.D

Acq: 20 Aug 2019 01:39

Instrument :

MSVOA\_W

ClientSampleId :

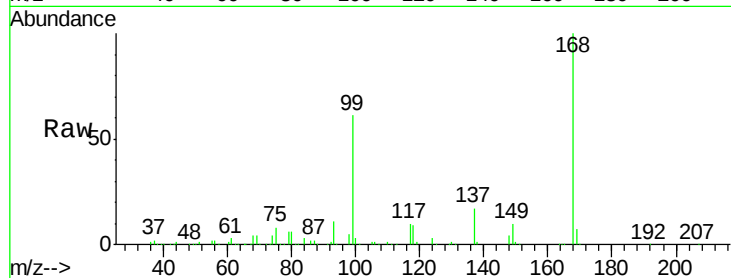
T8-F-(0)

Tot Ion:168 Resp: 288593

Ion Ratio Lower Upper

168 100

99 61.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

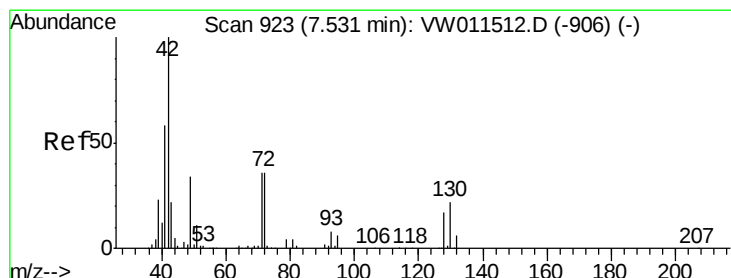
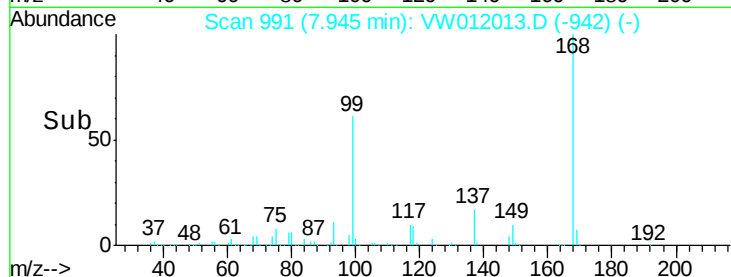
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#29

Tetrahydrofuran

Concen: 10.295 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012013.D

Acq: 20 Aug 2019 01:39

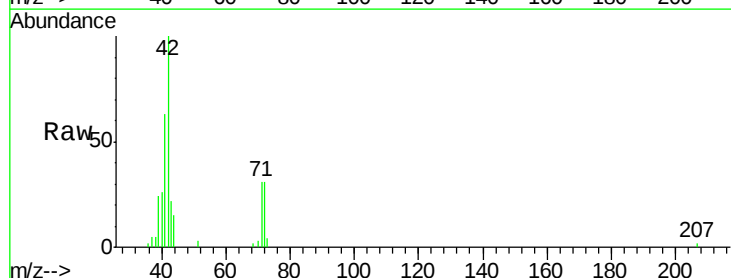
Tgt Ion: 42 Resp: 8117

Ion Ratio Lower Upper

42 100

72 35.5 27.1 40.7

71 32.9 26.2 39.4



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

7.54

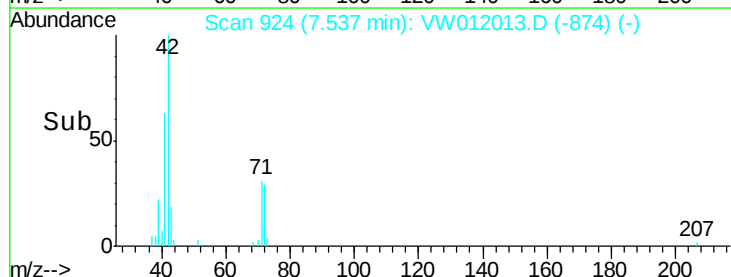
3000

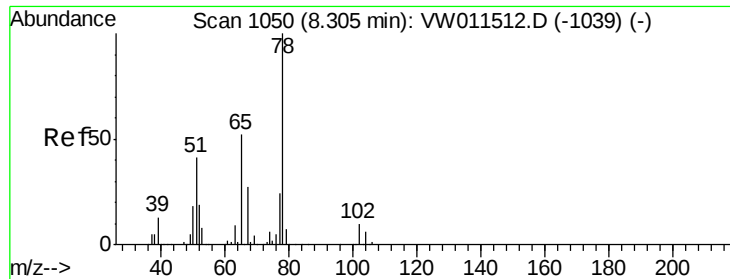
2000

1000

0

Time--> 7.40 7.50 7.60

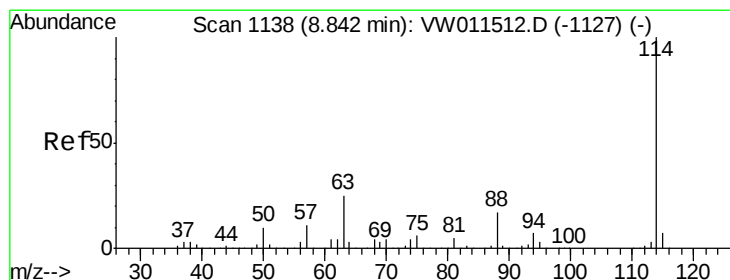
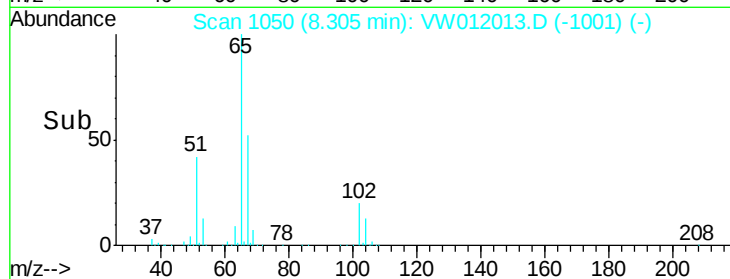
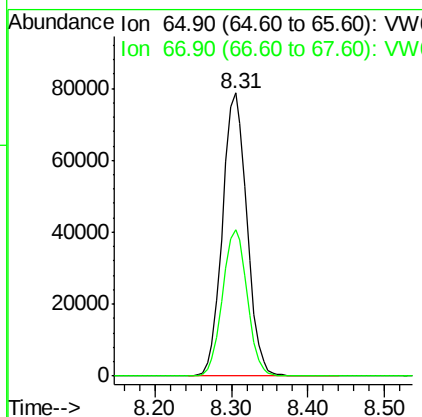
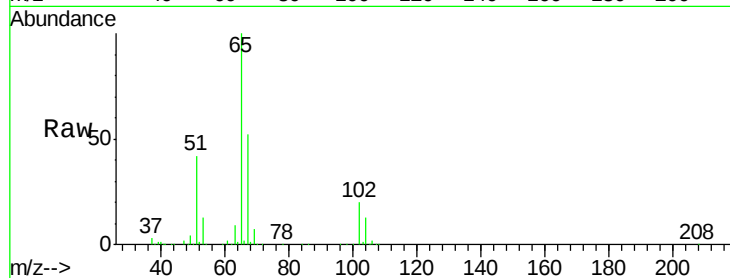




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.550 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW012013.D  
 Acq: 20 Aug 2019 01:39

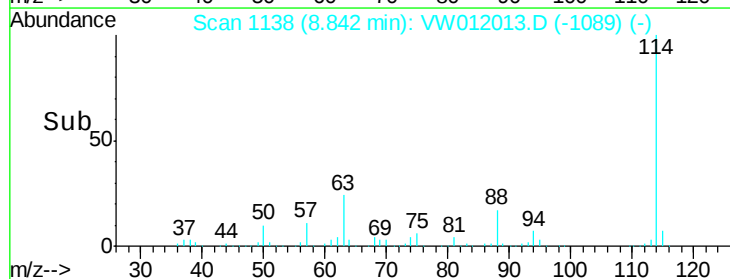
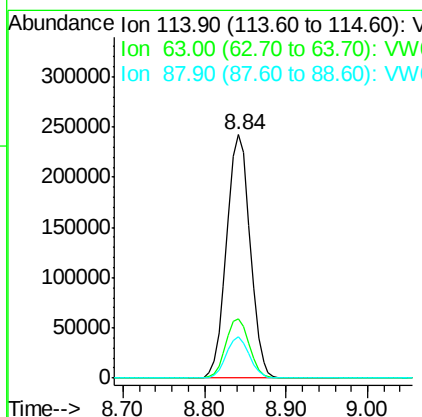
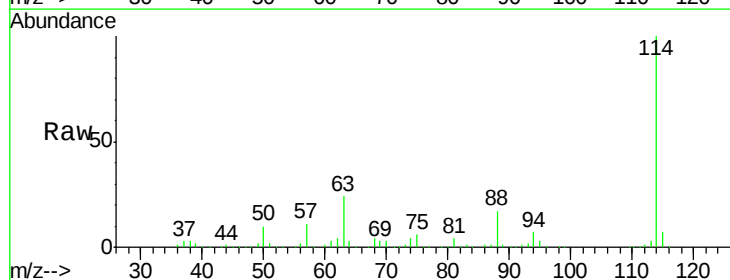
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T8-F-(0)

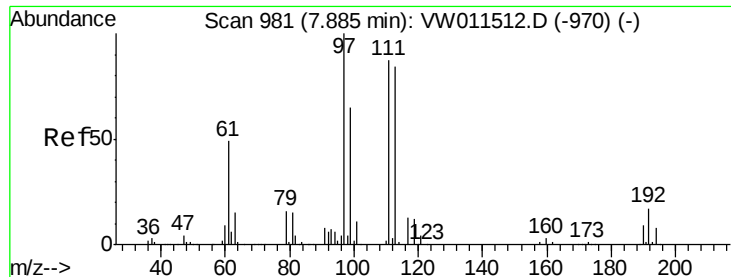
Tot Ion: 65 Resp: 174142  
 Ion Ratio Lower Upper  
 65 100  
 67 52.1 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012013.D  
 Acq: 20 Aug 2019 01:39

Tgt Ion: 114 Resp: 480585  
 Ion Ratio Lower Upper  
 114 100  
 63 24.1 0.0 49.2  
 88 16.9 0.0 33.8

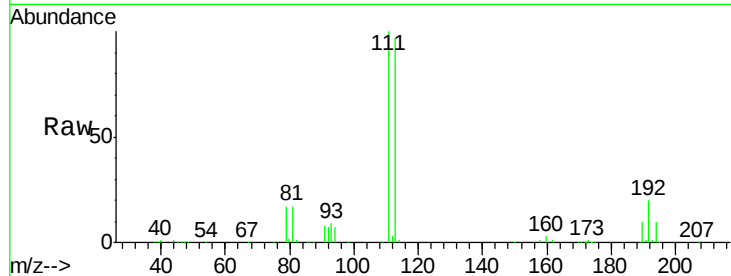




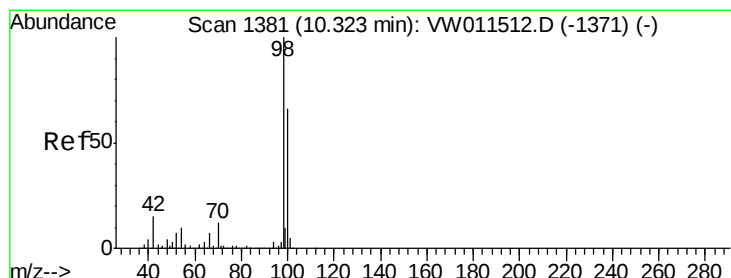
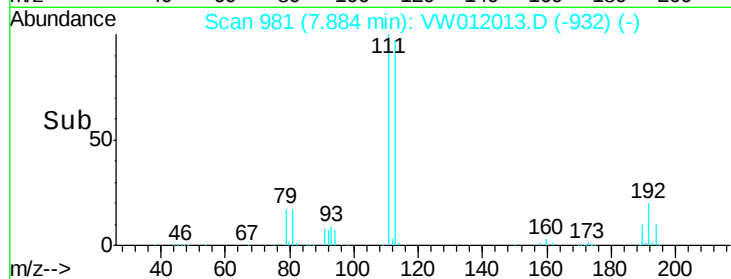
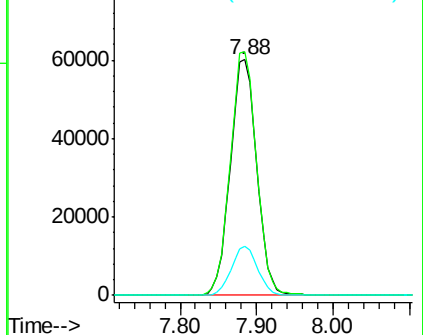
#35  
Dibromofluoromethane  
Concen: 53.452 ug/l  
RT: 7.88 min Scan# 981  
Delta R.T. -0.00 min  
Lab File: VW012013.D  
Acq: 20 Aug 2019 01:39

Instrument :  
MSVOA\_W  
ClientSampleId :  
T8-F-(0)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 82.7  | 124.1 |
| 192     | 20.7  | 16.1  | 24.1  |

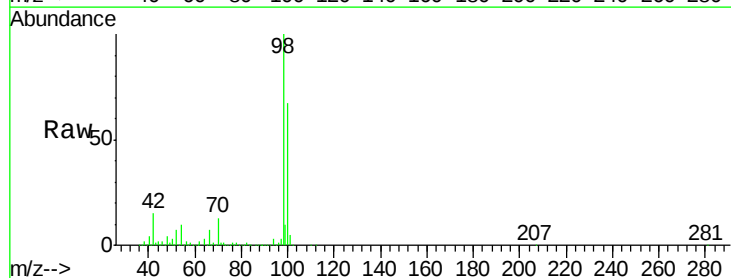


Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

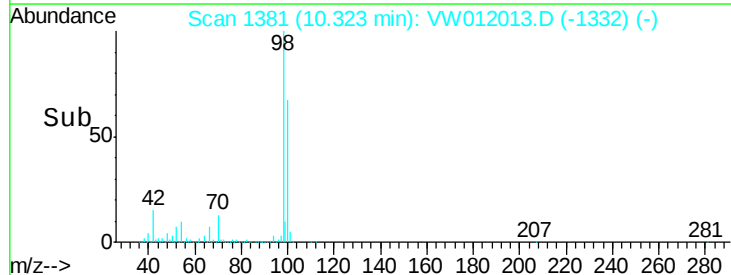
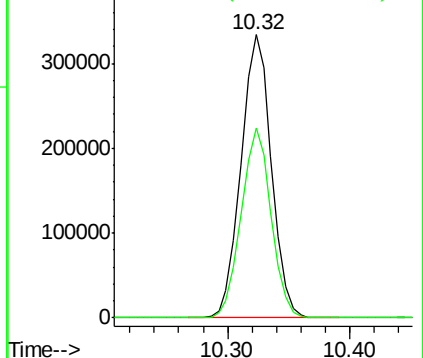


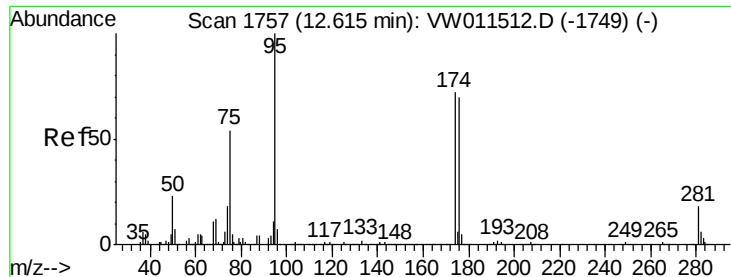
#50  
Toluene-d8  
Concen: 51.908 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012013.D  
Acq: 20 Aug 2019 01:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 66.1  | 52.7  | 79.1  |



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): VW

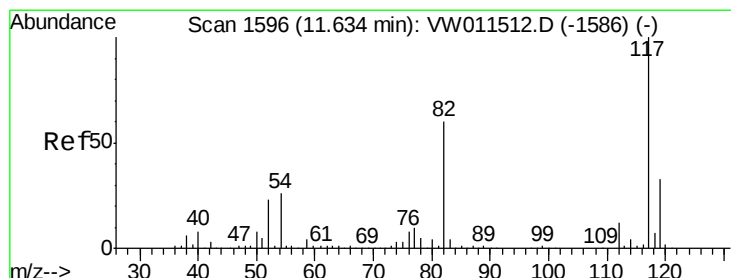
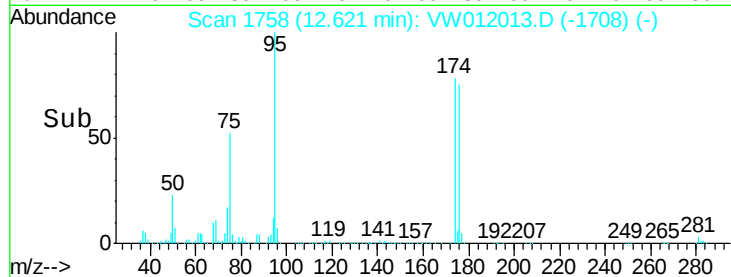
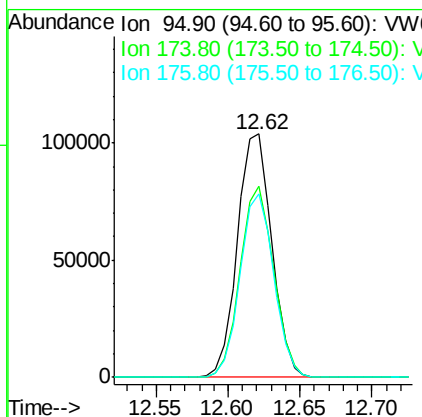
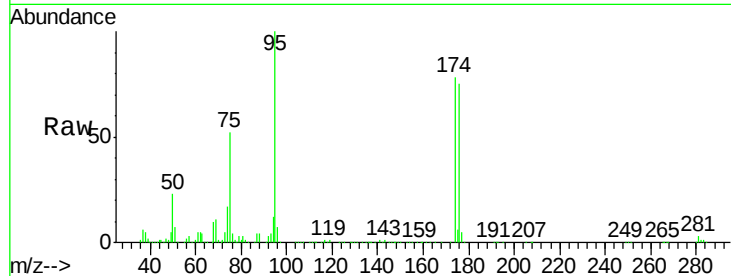




#62  
4-Bromofluorobenzene  
Concen: 43.888 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.01 min  
Lab File: VW012013.D  
Acq: 20 Aug 2019 01:39

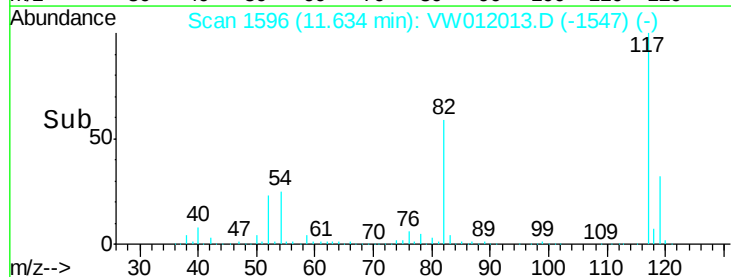
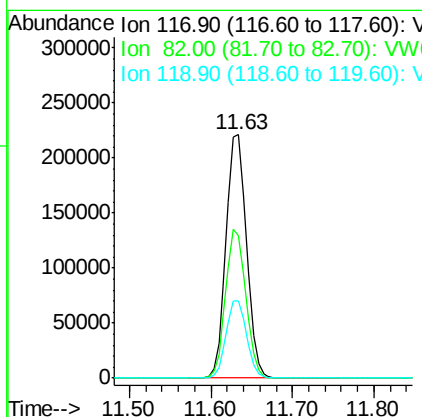
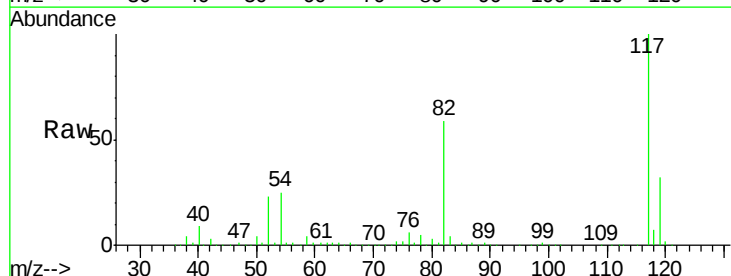
Instrument :  
MSVOA\_W  
ClientSampled :  
T8-F-(0)

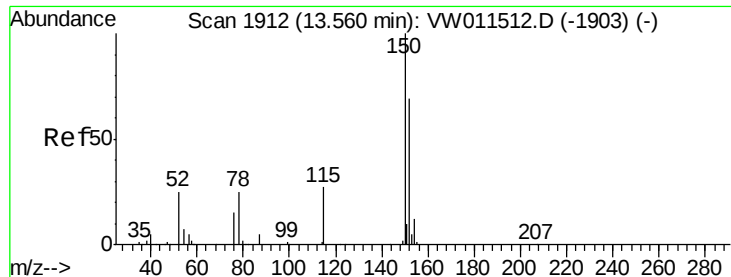
Tot Ion: 95 Resp: 172725  
Ion Ratio Lower Upper  
95 100  
174 76.5 0.0 150.2  
176 73.5 0.0 144.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW012013.D  
Acq: 20 Aug 2019 01:39

Tgt Ion: 117 Resp: 382268  
Ion Ratio Lower Upper  
117 100  
82 58.7 47.9 71.9  
119 31.7 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012013.D

Acq: 20 Aug 2019 01:39

Instrument :

MSVOA\_W

ClientSampleId :

T8-F-(0)

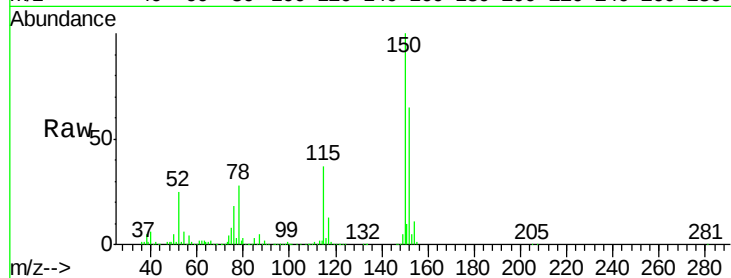
Tot Ion:152 Resp: 139702

Ion Ratio Lower Upper

152 100

115 59.0 30.5 91.5

150 154.6 0.0 352.6



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

