

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090319\  
 Data File : VW012570.D  
 Acq On : 04 Sep 2019 02:40  
 Operator : SY/VA  
 Sample : K4525-04  
 Misc : 5.11G/5ML/MSVOA W/SOIL  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T9-12-13-A3-(0)

Quant Time: Sep 04 08:03:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

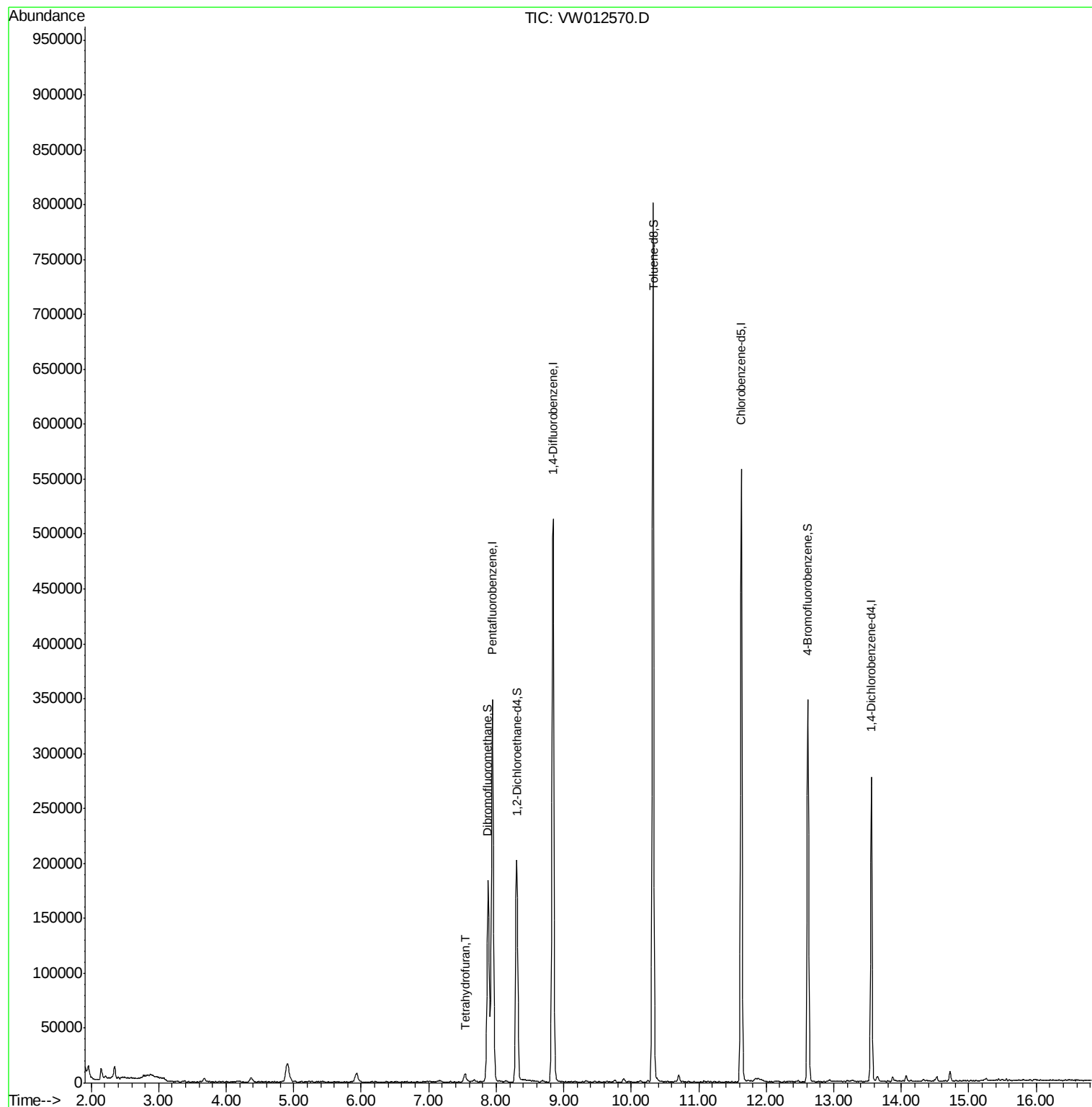
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|---------|-----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 251628   | 50.00 | ug/l    | 0.00      |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 407117   | 50.00 | ug/l    | 0.00      |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 293944   | 50.00 | ug/l    | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 69687    | 50.00 | ug/l    | 0.00      |
| System Monitoring Compounds |       |      |          |       |         |           |
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 170954   | 57.15 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 114.30% |           |
| 35) Dibromofluoromethane    | 7.88  | 113  | 131144   | 53.97 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 107.94% |           |
| 50) Toluene-d8              | 10.32 | 98   | 488382   | 49.57 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.14%  |           |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 110333   | 31.77 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 63.54%  |           |
| Target Compounds            |       |      |          |       |         |           |
| 29) Tetrahydrofuran         | 7.54  | 42   | 6210     | 9.962 | ug/l    | Qvalue 96 |

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

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Quant Title : SW846 8260  
QLast Update : Mon Aug 26 07:18:31 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: VW012570.D

Acq: 04 Sep 2019 02:40

Instrument :

MSVOA\_W

ClientSampleId :

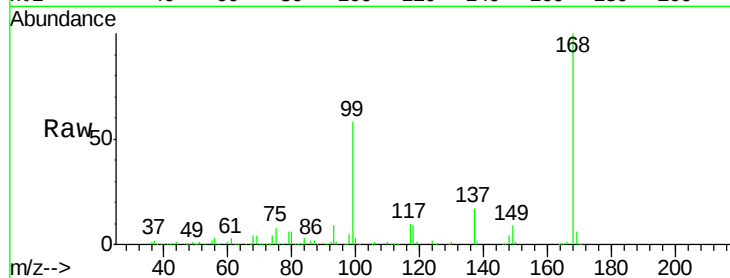
T9-12-13-A3-(0)

Tot Ion:168 Resp: 251628

Ion Ratio Lower Upper

168 100

99 57.8 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

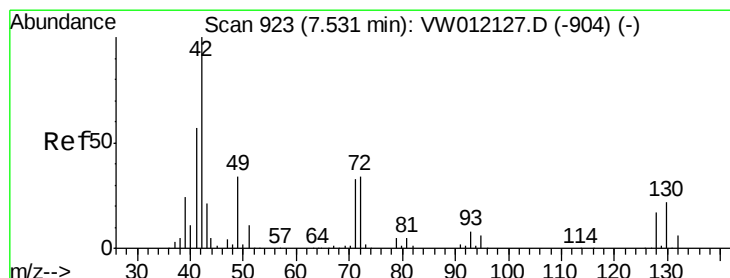
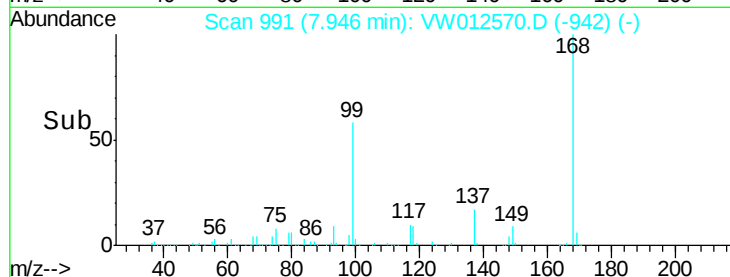
7.95

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#29

Tetrahydrofuran

Concen: 9.962 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012570.D

Acq: 04 Sep 2019 02:40

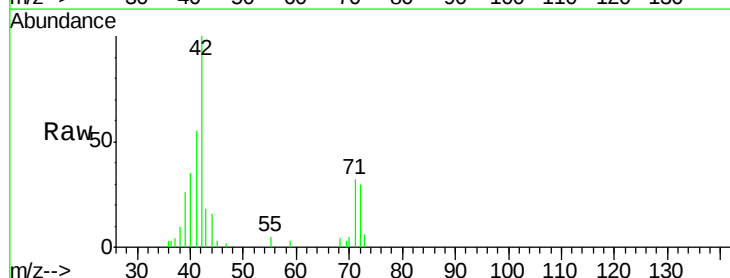
Tgt Ion: 42 Resp: 6210

Ion Ratio Lower Upper

42 100

72 38.1 27.3 40.9

71 31.5 25.5 38.3



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

2500

2000

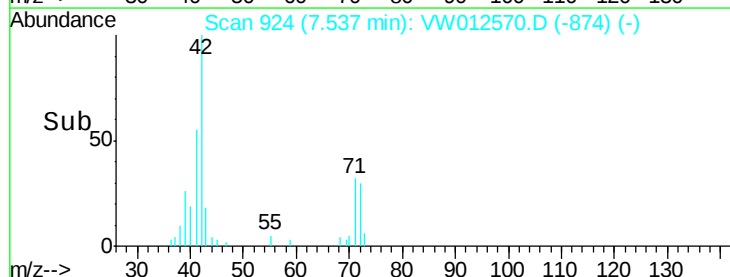
1500

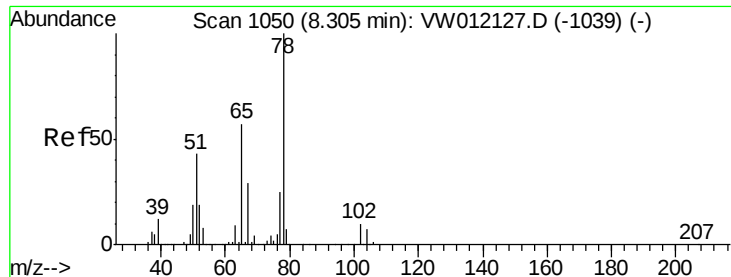
1000

500

0

Time--> 7.50 7.60





#33

1,2-Dichloroethane-d4

Concen: 57.152 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW012570.D

Acq: 04 Sep 2019 02:40

Instrument :

MSVOA\_W

ClientSampleId :

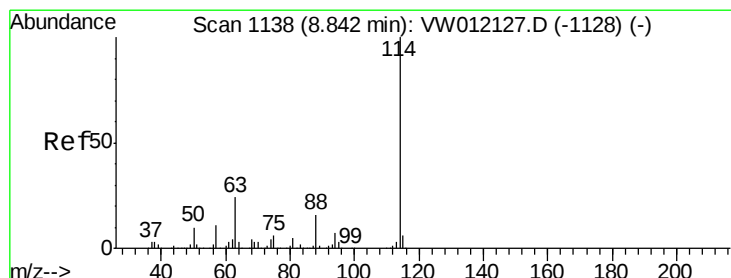
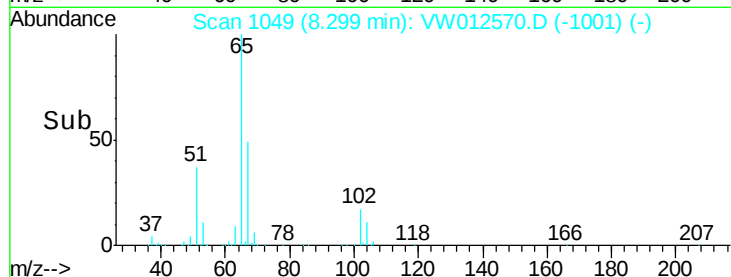
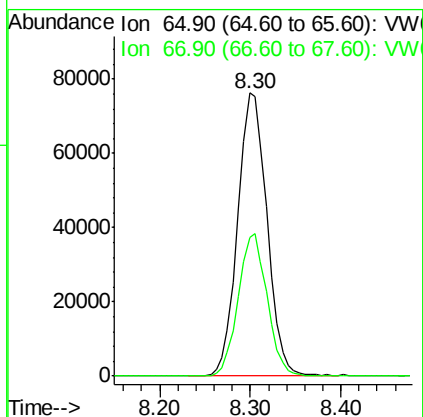
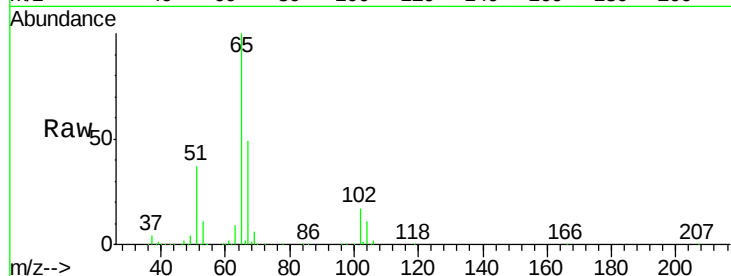
T9-12-13-A3-(0)

Tot Ion: 65 Resp: 170954

Ion Ratio Lower Upper

65 100

67 49.8 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012570.D

Acq: 04 Sep 2019 02:40

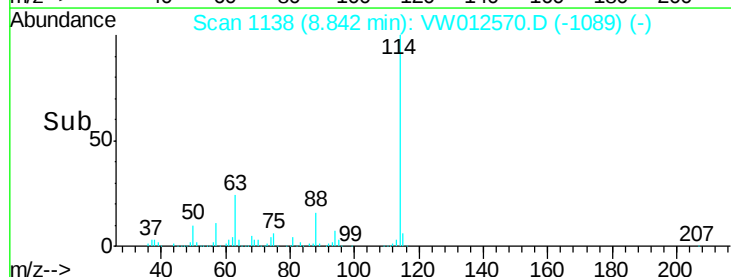
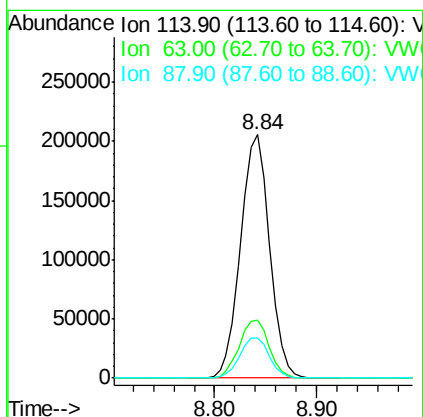
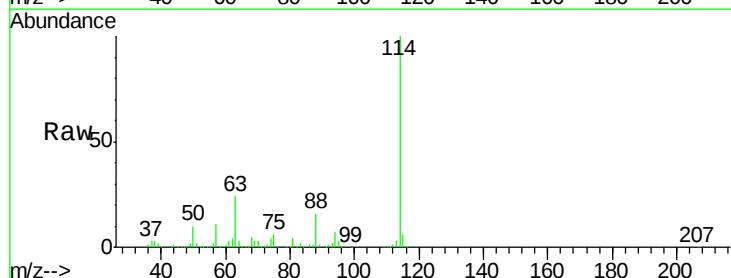
Tgt Ion: 114 Resp: 407117

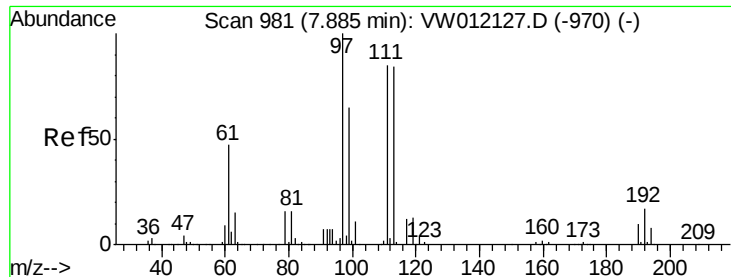
Ion Ratio Lower Upper

114 100

63 23.8 0.0 48.6

88 16.5 0.0 32.2

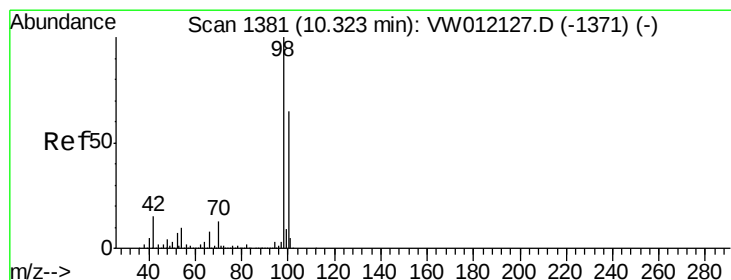
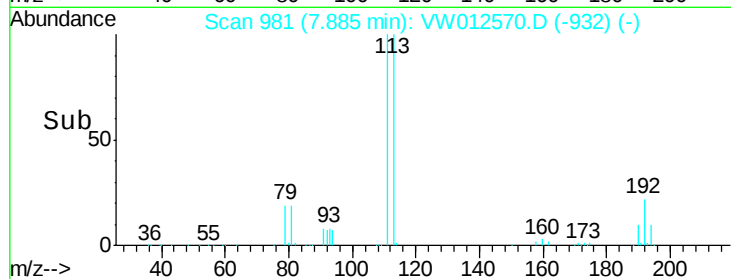
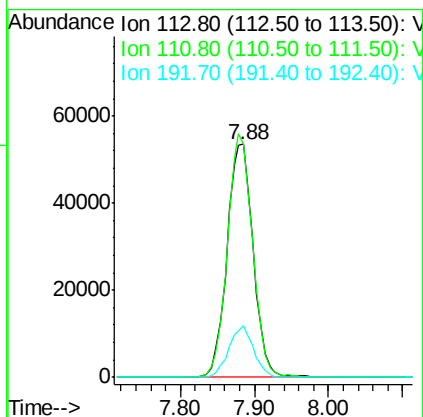
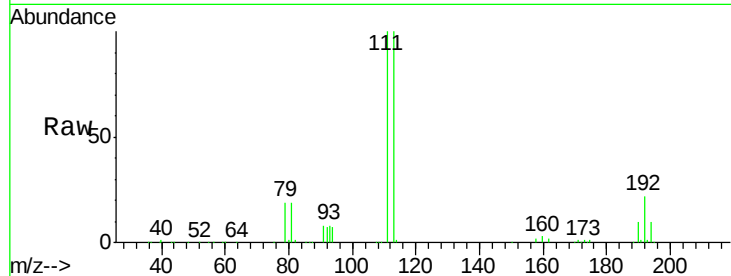




#35  
 Dibromofluoromethane  
 Concen: 53.967 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW012570.D  
 Acq: 04 Sep 2019 02:40

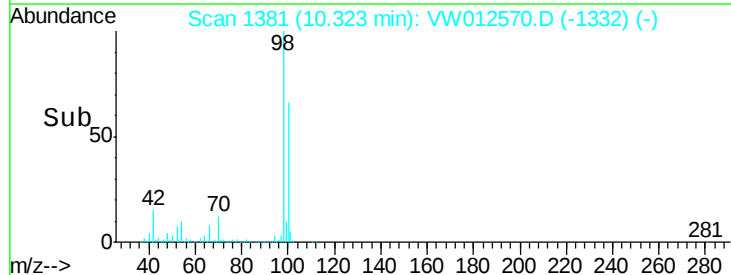
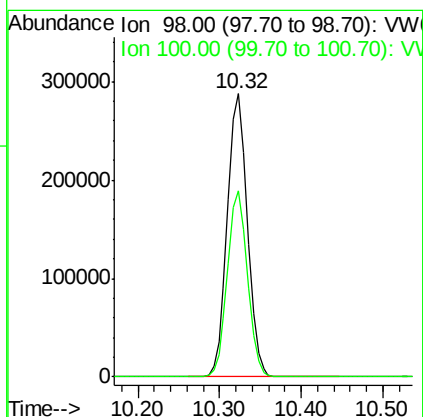
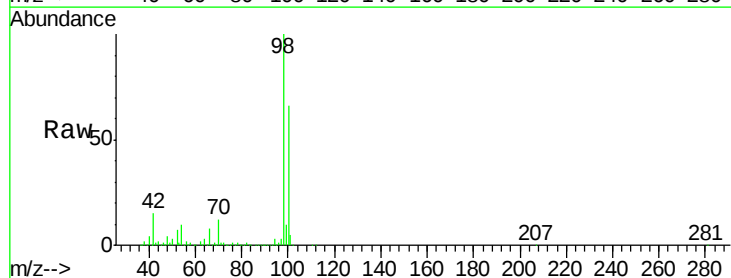
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T9-12-13-A3-(0)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.6 | 82.7  | 124.1 |
| 192     | 20.8  | 16.2  | 24.2  |



#50  
 Toluene-d8  
 Concen: 49.565 ug/l  
 RT: 10.32 min Scan# 1381  
 Delta R.T. -0.00 min  
 Lab File: VW012570.D  
 Acq: 04 Sep 2019 02:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 65.4  | 52.4  | 78.6  |

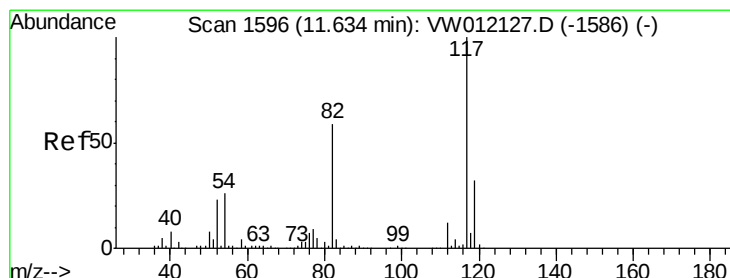
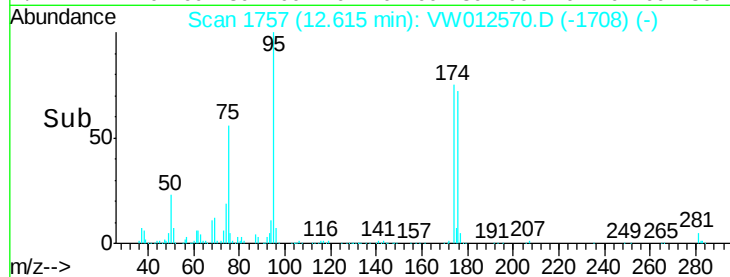
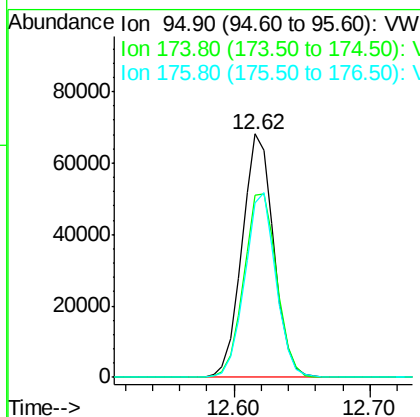
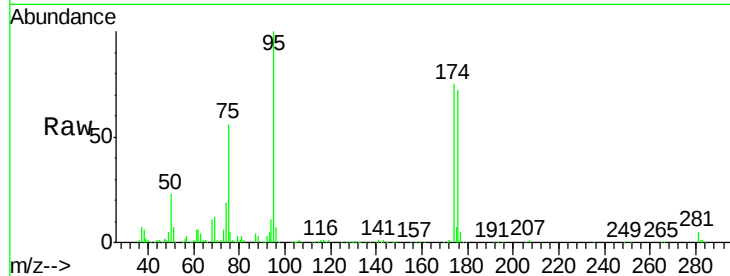




#62  
4-Bromofluorobenzene  
Concen: 31.766 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW012570.D  
Acq: 04 Sep 2019 02:40

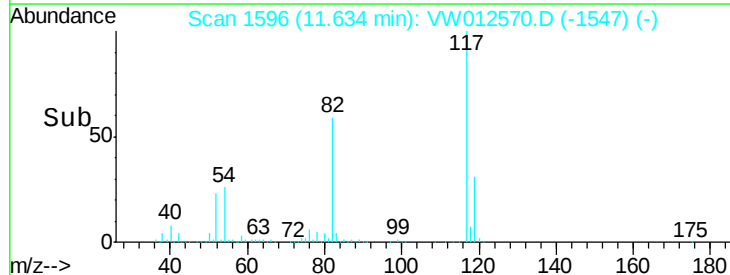
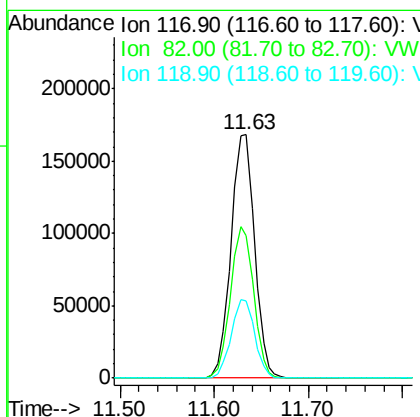
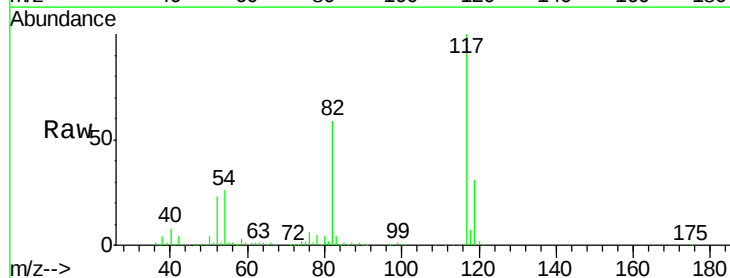
Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-A3-(0)

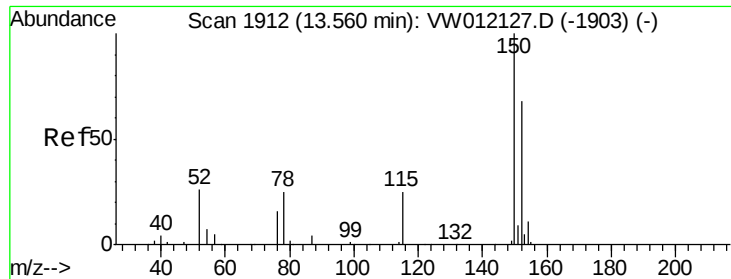
| Tot Ion   | 95    | Resp  | 110333 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 79.0  | 0.0   | 150.8  |
| 176       | 74.9  | 0.0   | 148.6  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW012570.D  
Acq: 04 Sep 2019 02:40

| Tgt Ion   | 117   | Resp  | 293944 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 58.7  | 47.4  | 71.2   |
| 119       | 31.5  | 25.4  | 38.2   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012570.D

Acq: 04 Sep 2019 02:40

Instrument :

MSVOA\_W

ClientSampleId :

T9-12-13-A3-(0)

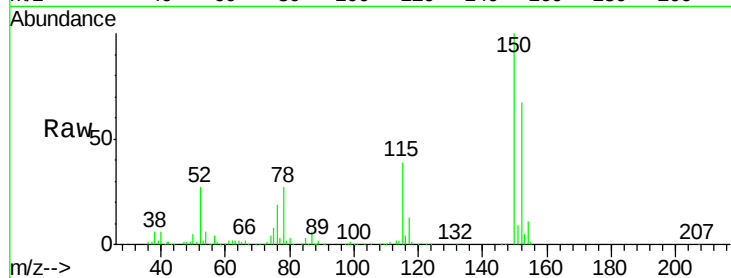
Tot Ion:152 Resp: 69687

Ion Ratio Lower Upper

152 100

115 59.4 30.1 90.3

150 157.6 0.0 345.8



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

