

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW082319\  
 Data File : VW012137.D  
 Acq On : 23 Aug 2019 17:15  
 Operator : SY/VA  
 Sample : K4496-04  
 Misc : 6.60G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 S600-M-1.0-1.5-082219-FD

Quant Time: Sep 05 05:07:05 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

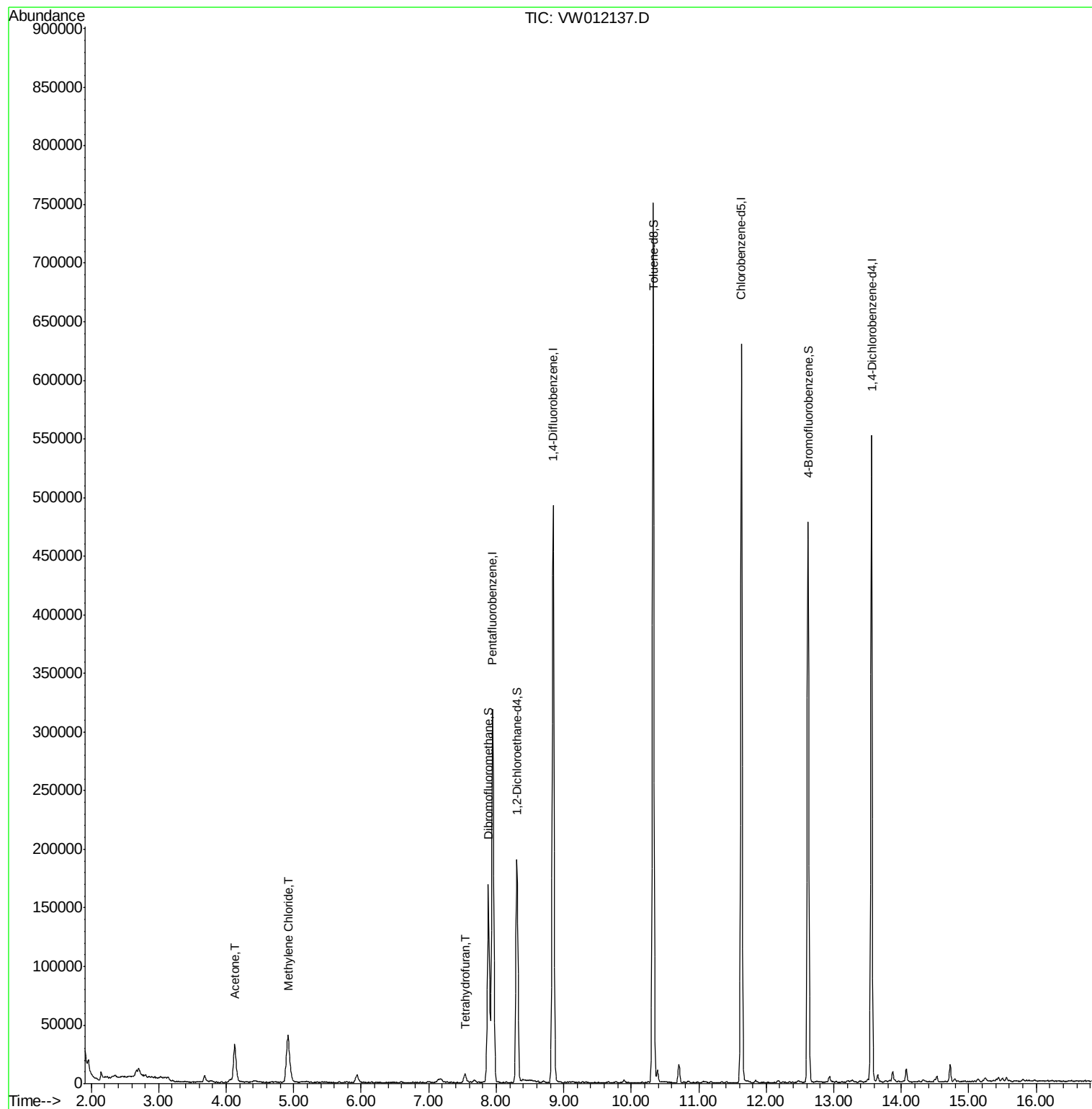
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 234968   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 385065   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 323662   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 135078   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 147229   | 52.71  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 105.42% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 118101   | 51.38  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 102.76% |          |
| 50) Toluene-d8              | 10.32 | 98   | 474744   | 50.94  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.88% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 152682   | 46.48  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 92.96%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 4.12  | 43   | 59933    | 83.940 | ug/l    | 99       |
| 20) Methylene Chloride      | 4.92  | 84   | 30348    | 11.243 | ug/l    | 96       |
| 29) Tetrahydrofuran         | 7.54  | 42   | 6060     | 10.410 | ug/l    | 95       |

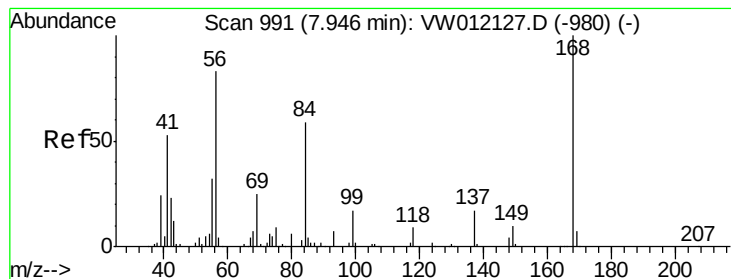
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW082319\  
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S600-M-1.0-1.5-082219-FD

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
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# 992

Delta R.T. 0.01 min

Lab File: VW012137.D

Acq: 23 Aug 2019 17:15

Instrument :

MSVOA\_W

ClientSampleId :

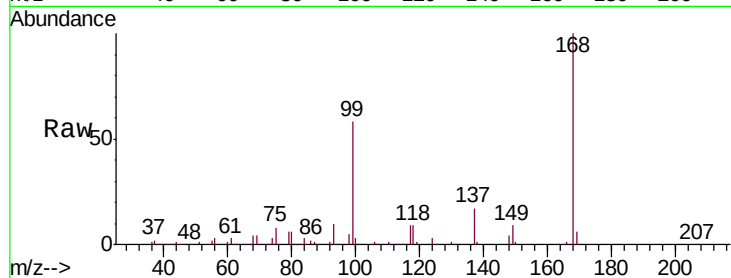
S600-M-1.0-1.5-082219-FD

Tgt Ion:168 Resp: 234968

Ion Ratio Lower Upper

168 100

99 58.2 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

120000

100000

80000

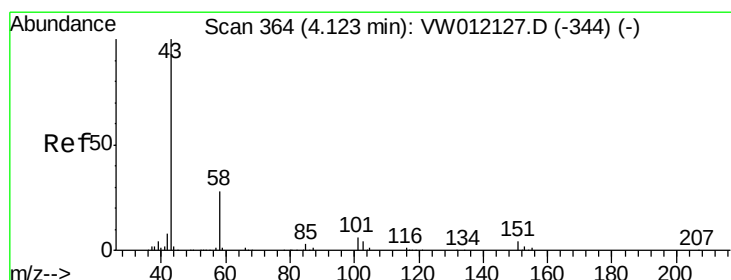
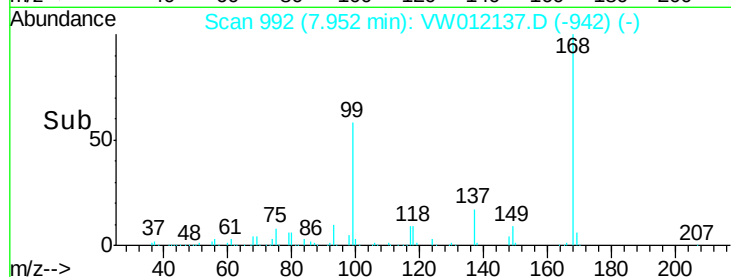
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#16

Acetone

Concen: 83.940 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW012137.D

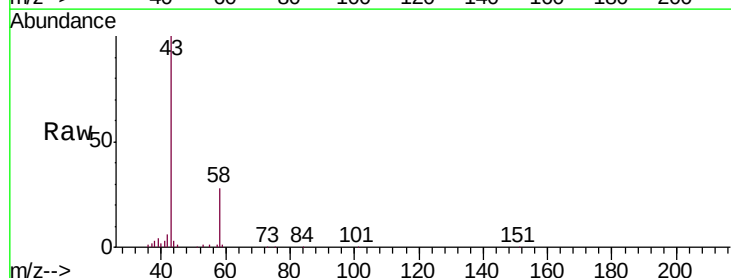
Acq: 23 Aug 2019 17:15

Tgt Ion: 43 Resp: 59933

Ion Ratio Lower Upper

43 100

58 28.4 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

25000

20000

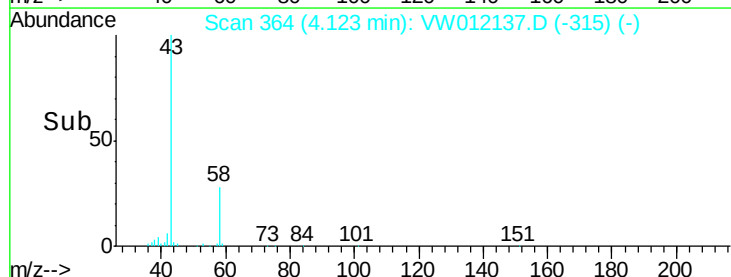
15000

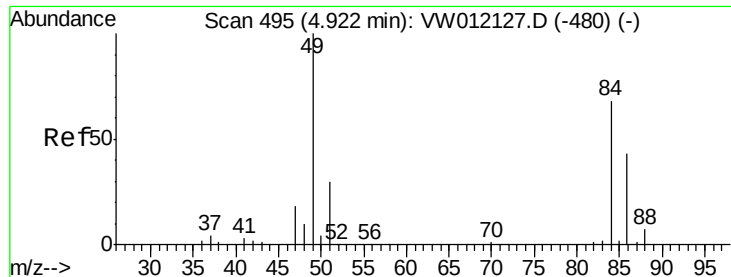
10000

5000

0

Time--> 4.00 4.10 4.20

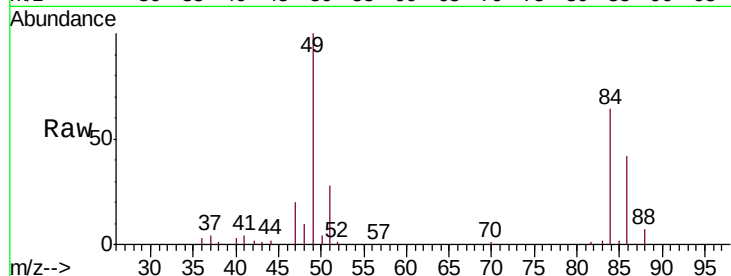




#20  
Methylene Chloride  
Concen: 11.243 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW012137.D  
Acq: 23 Aug 2019 17:15

Instrument :  
MSVOA\_W  
ClientSampleId :  
S600-M-1.0-1.5-082219-FD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 30348 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 155.7 | 117.8 | 176.8 |
| 51       | 44.3  | 35.6  | 53.4  |
| 86       | 65.5  | 51.2  | 76.8  |



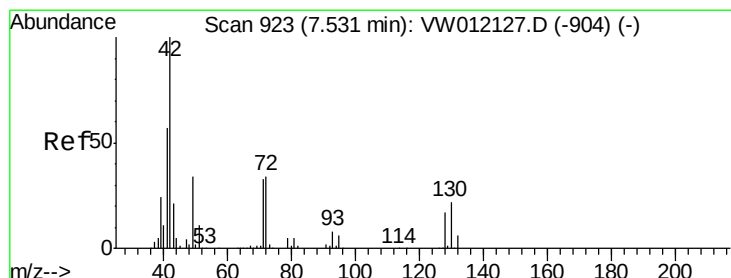
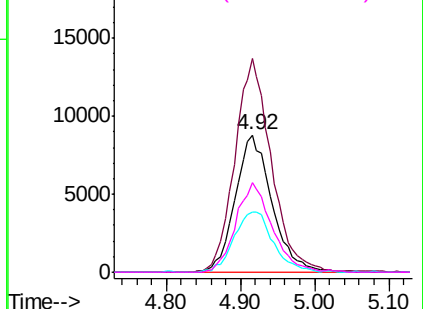
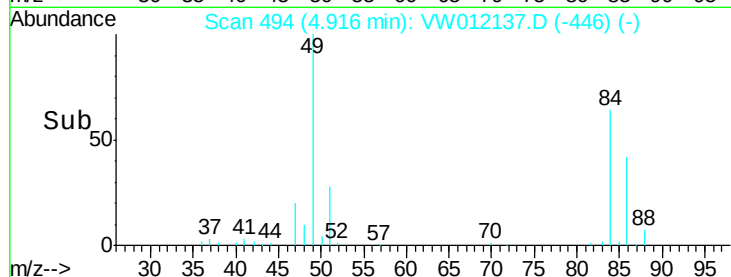
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

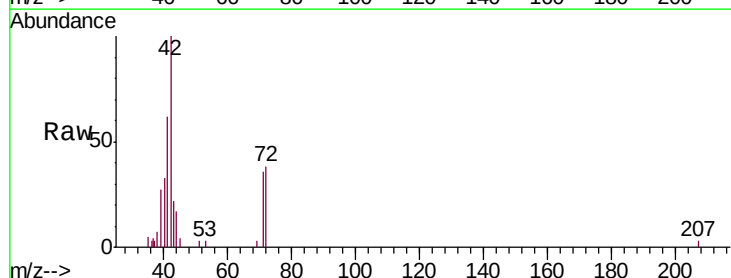
Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#29  
Tetrahydrofuran  
Concen: 10.410 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. 0.01 min  
Lab File: VW012137.D  
Acq: 23 Aug 2019 17:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 6060  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 36.1  | 27.3  | 40.9  |
| 71       | 35.4  | 25.5  | 38.3  |

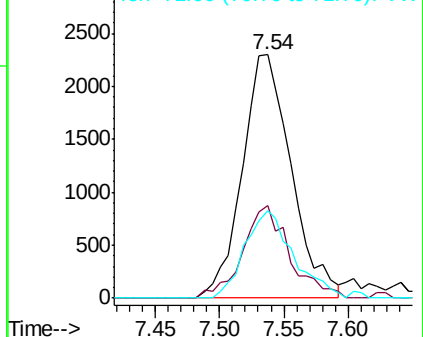
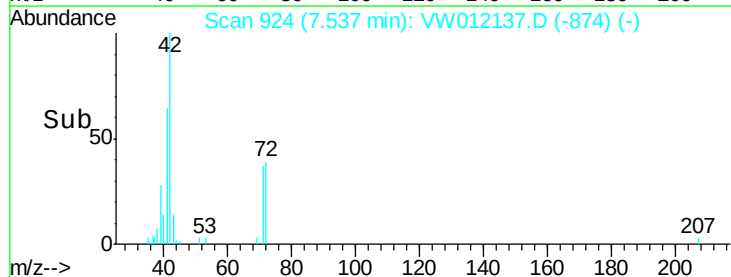


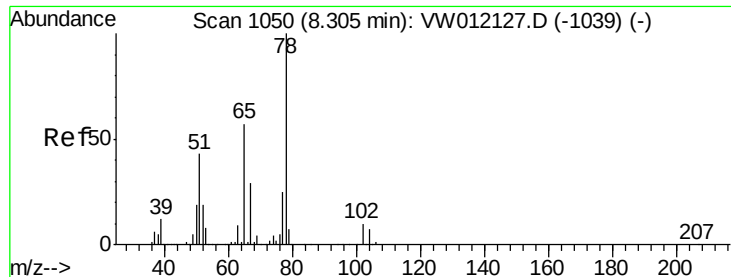
Abundance

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





#33

1,2-Dichloroethane-d4

Concen: 52.710 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012137.D

Acq: 23 Aug 2019 17:15

Instrument :

MSVOA\_W

ClientSampleId :

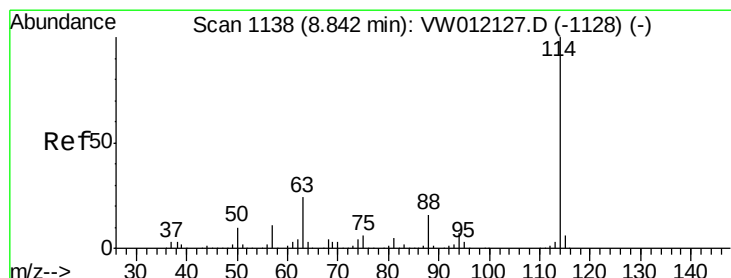
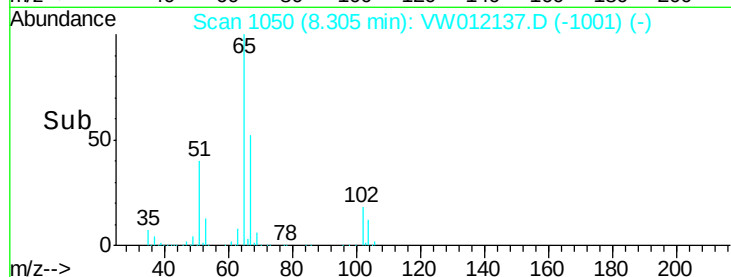
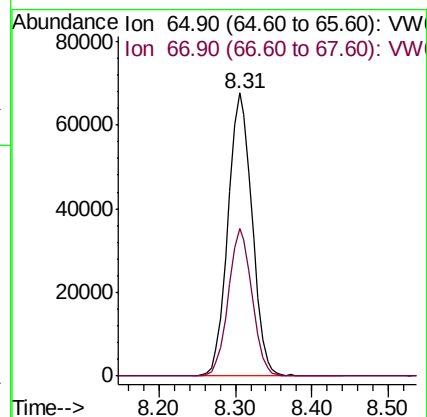
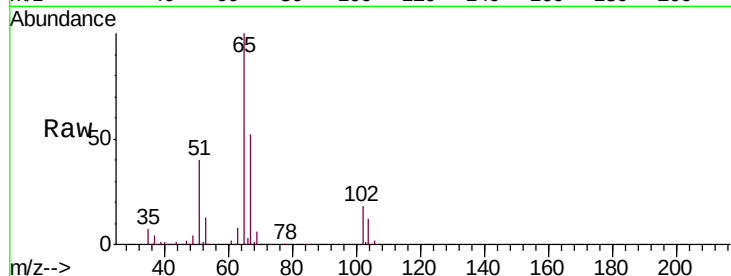
S600-M-1.0-1.5-082219-FD

Tgt Ion: 65 Resp: 147229

Ion Ratio Lower Upper

65 100

67 51.0 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: VW012137.D

Acq: 23 Aug 2019 17:15

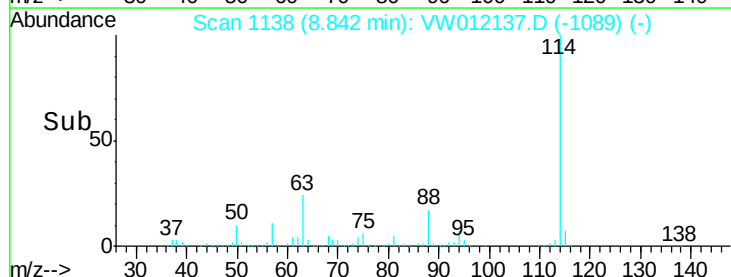
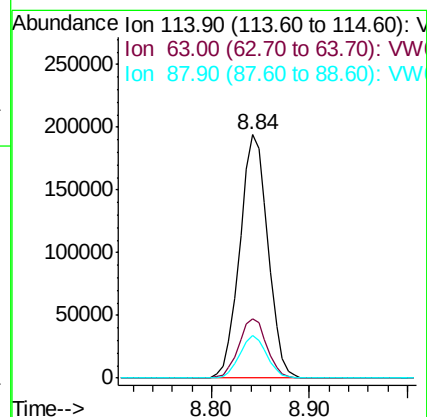
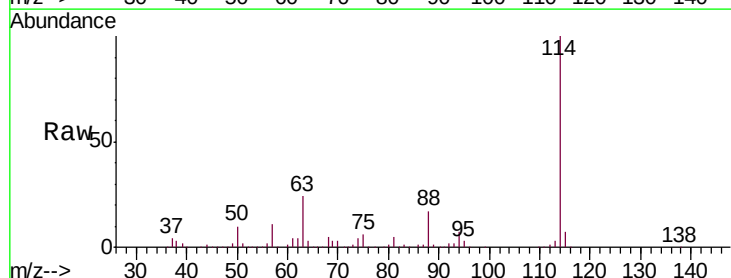
Tgt Ion: 114 Resp: 385065

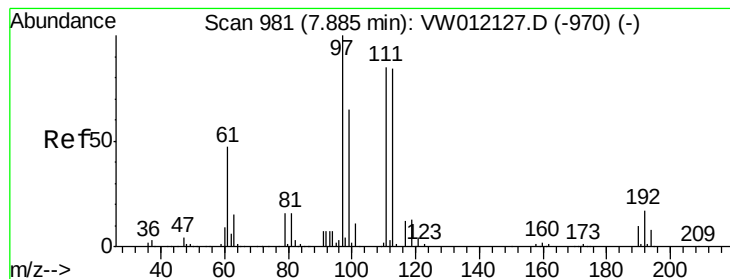
Ion Ratio Lower Upper

114 100

63 24.2 0.0 48.6

88 17.3 0.0 32.2





#35

Dibromofluoromethane

Concen: 51.383 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW012137.D

Acq: 23 Aug 2019 17:15

Instrument :

MSVOA\_W

ClientSampleId :

S600-M-1.0-1.5-082219-FD

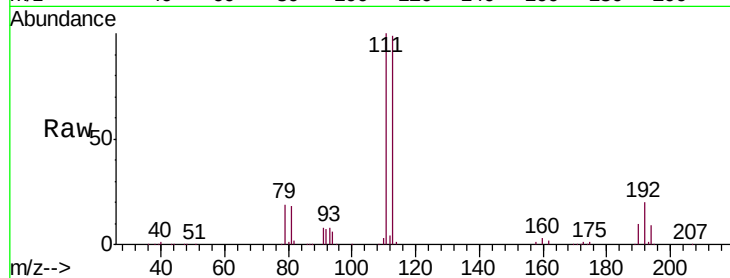
Tgt Ion:113 Resp: 118101

Ion Ratio Lower Upper

113 100

111 102.7 82.7 124.1

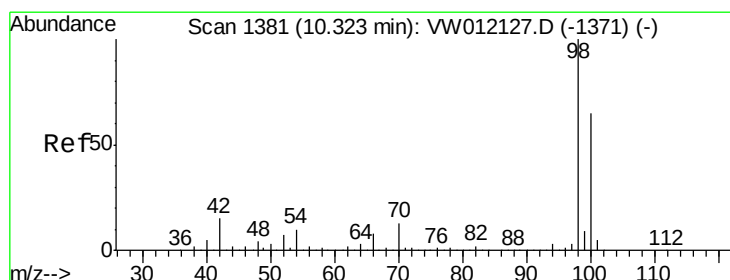
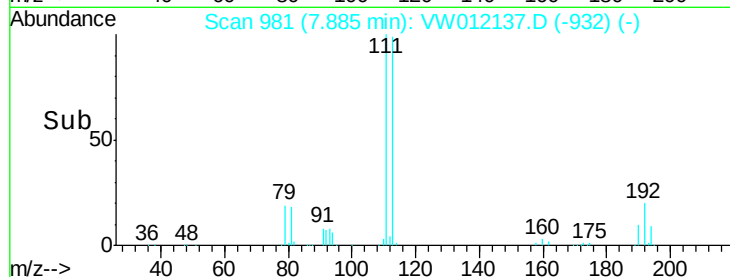
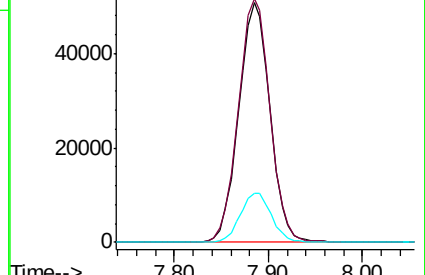
192 20.4 16.2 24.2



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: 50.940 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW012137.D

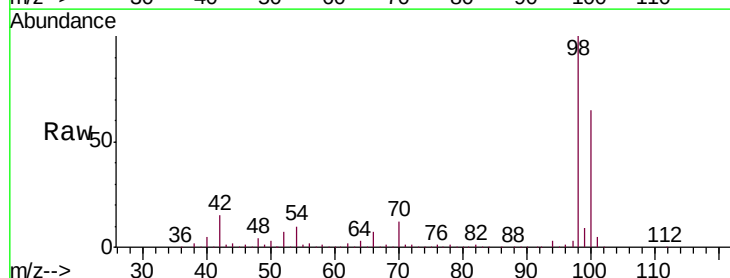
Acq: 23 Aug 2019 17:15

Tgt Ion: 98 Resp: 474744

Ion Ratio Lower Upper

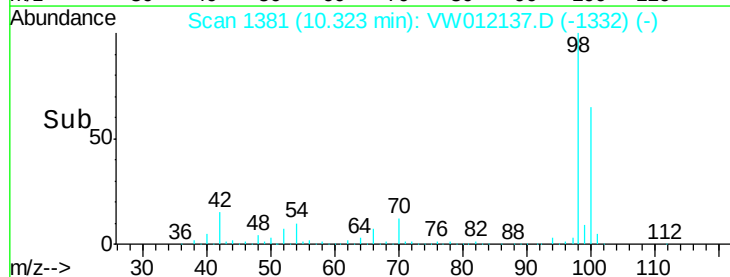
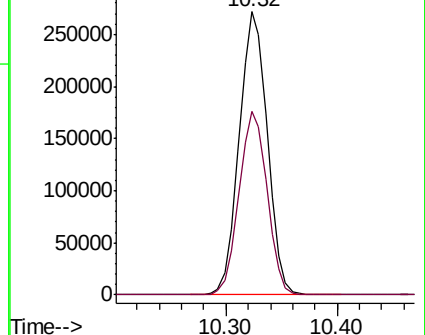
98 100

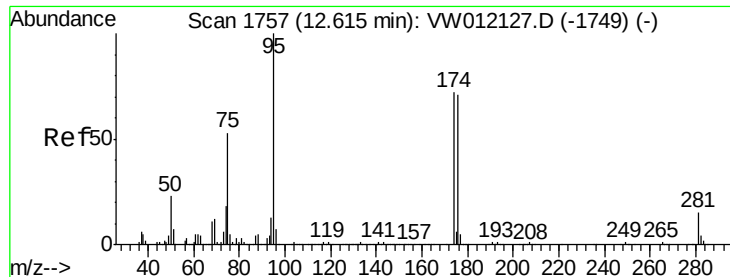
100 64.6 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 46.476 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW012137.D

Acq: 23 Aug 2019 17:15

Instrument :

MSVOA\_W

ClientSampleId :

S600-M-1.0-1.5-082219-FD

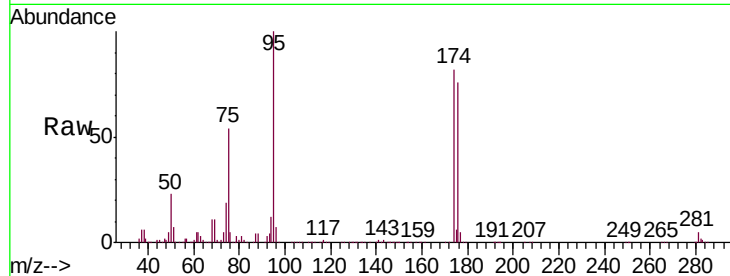
Tgt Ion: 95 Resp: 152682

Ion Ratio Lower Upper

95 100

174 77.1 0.0 150.8

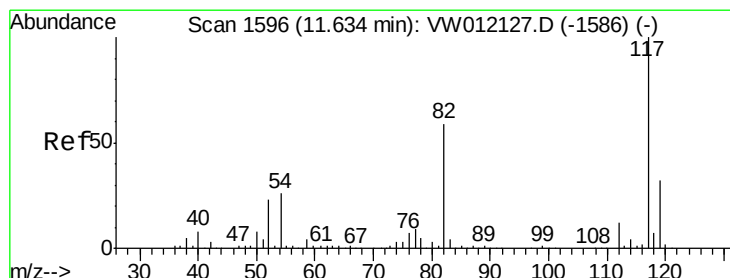
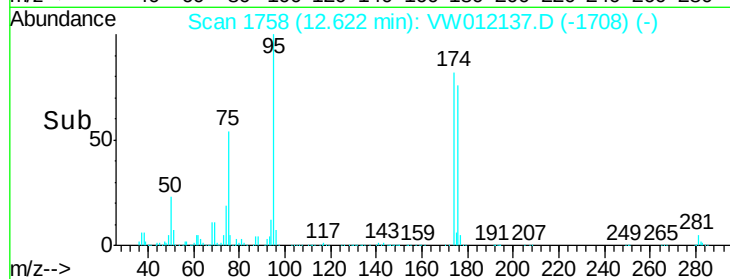
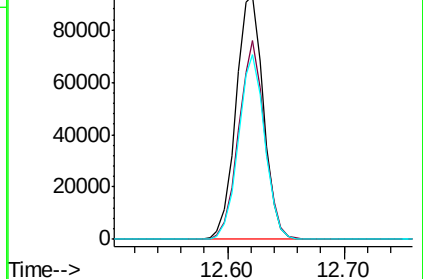
176 72.8 0.0 148.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW012137.D

Acq: 23 Aug 2019 17:15

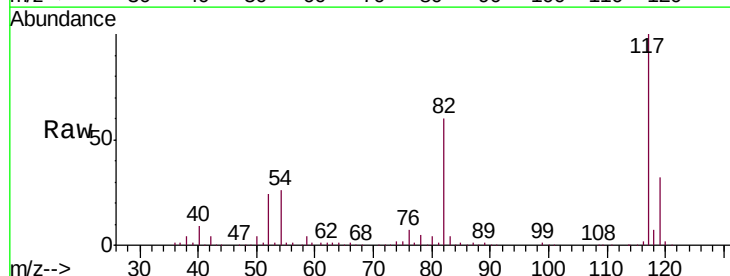
Tgt Ion: 117 Resp: 323662

Ion Ratio Lower Upper

117 100

82 59.7 47.4 71.2

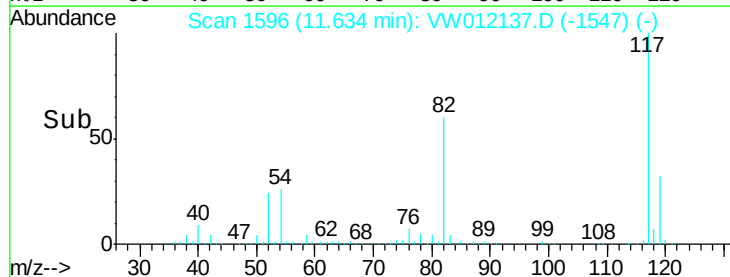
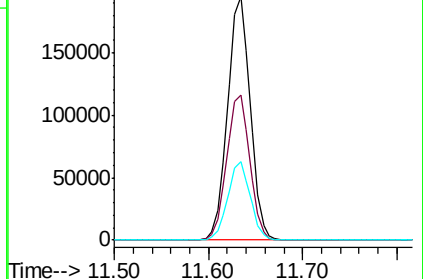
119 32.3 25.4 38.2

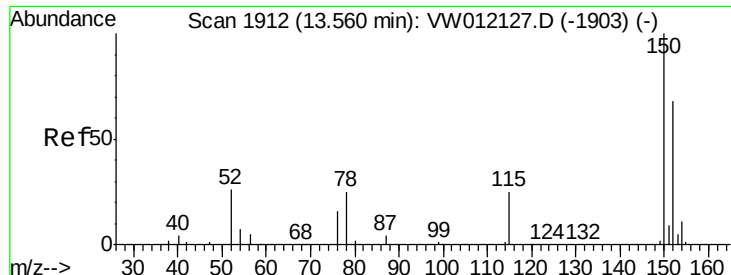


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012137.D

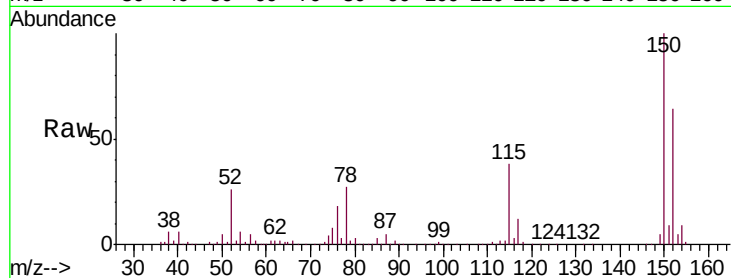
Acq: 23 Aug 2019 17:15

Instrument :

MSVOA\_W

ClientSampleId :

S600-M-1.0-1.5-082219-FD



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 152   | Resp: | 135078 |
| Ion      | Ratio | Lower | Upper  |
| 152      | 100   |       |        |
| 115      | 59.7  | 30.1  | 90.3   |
| 150      | 156.4 | 0.0   | 345.8  |

