

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102218\  
 Data File : VW006288.D  
 Acq On : 23 Oct 2018 09:14  
 Operator : VA/AP  
 Sample : J5624-04  
 Misc : 5.59G/5ML/MSVOA W/SOIL  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PA-SED-02

Quant Time: Oct 23 14:58:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 18 17:01:24 2018  
 Response via : Initial Calibration

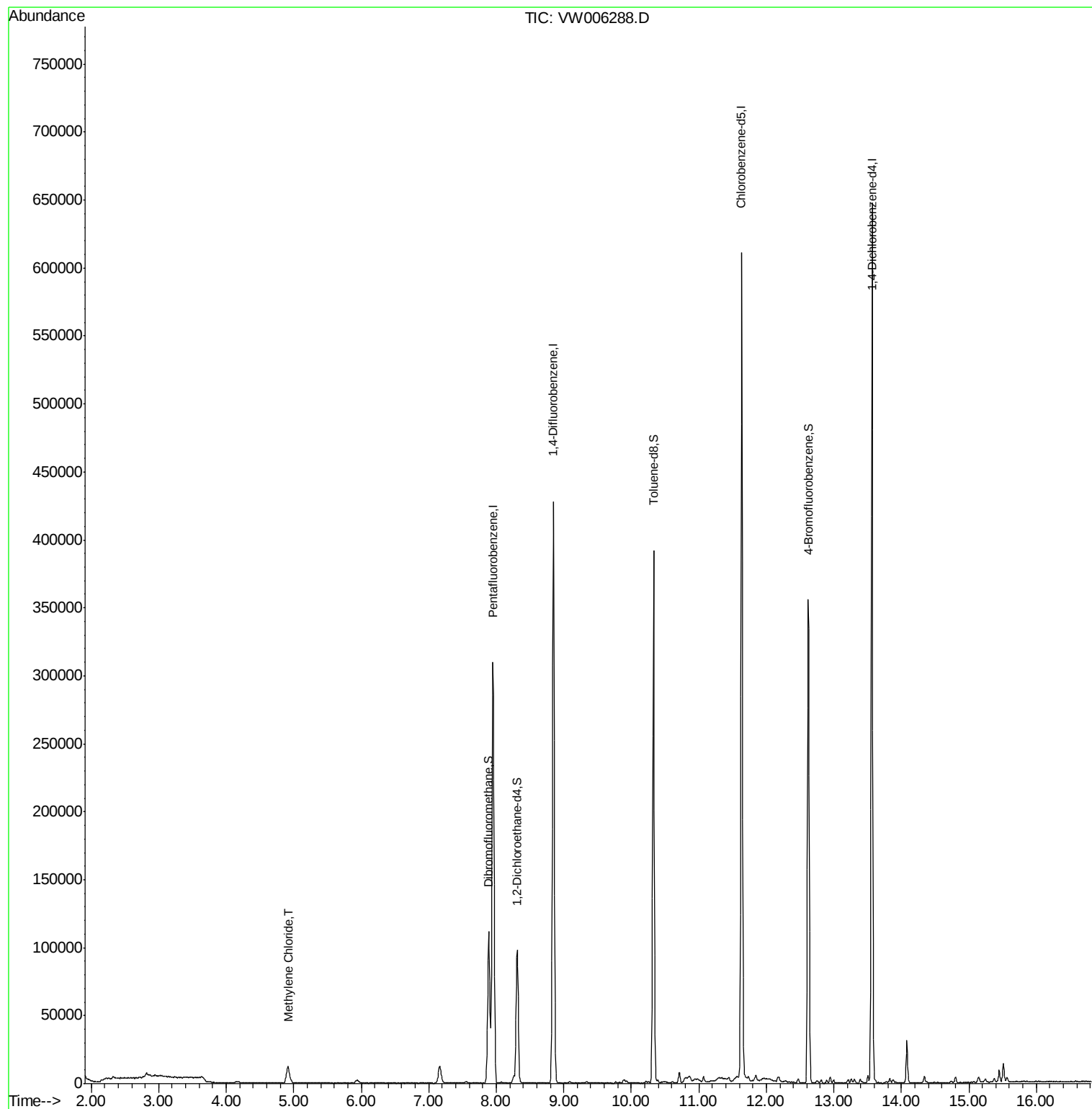
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|--------|-----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 251380   | 50.00 | ug/l   | 0.00      |
| 34) 1,4-Difluorobenzene     | 8.85  | 114  | 379415   | 50.00 | ug/l   | 0.00      |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 348711   | 50.00 | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 13.57 | 152  | 177557   | 50.00 | ug/l   | 0.00      |
| System Monitoring Compounds |       |      |          |       |        |           |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 77474    | 37.17 | ug/l   | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 74.34% |           |
| 35) Dibromofluoromethane    | 7.88  | 113  | 78198    | 34.88 | ug/l   | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 69.76% |           |
| 50) Toluene-d8              | 10.33 | 98   | 266929   | 31.29 | ug/l   | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 62.58% |           |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 103080   | 32.18 | ug/l   | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 64.36% |           |
| Target Compounds            |       |      |          |       |        |           |
| 20) Methylene Chloride      | 4.92  | 84   | 10350    | 3.169 | ug/l   | Qvalue 93 |

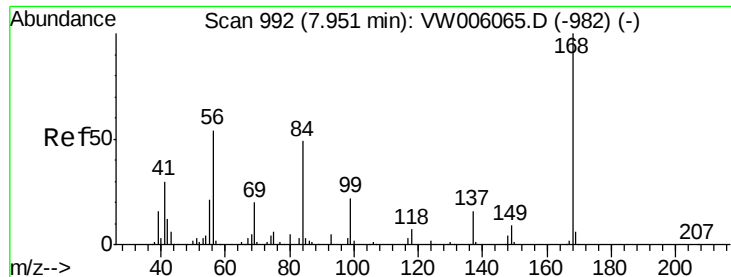
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 23 14:58:58 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 18 17:01:24 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW006288.D

Acq: 23 Oct 2018 09:14

Instrument :

MSVOA\_W

ClientSampleId :

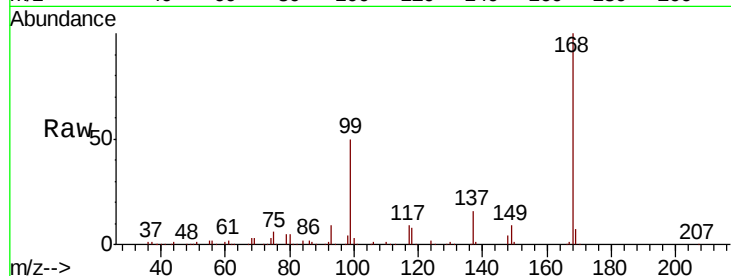
PA-SED-02

Tot Ion:168 Resp: 251380

Ion Ratio Lower Upper

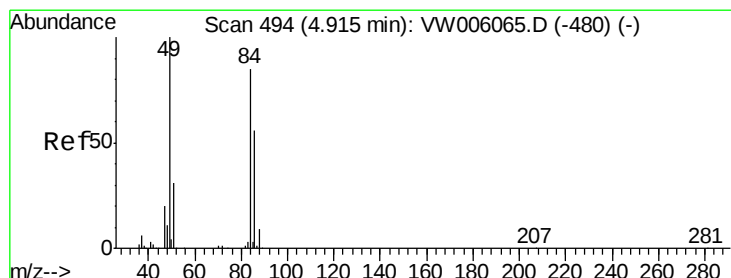
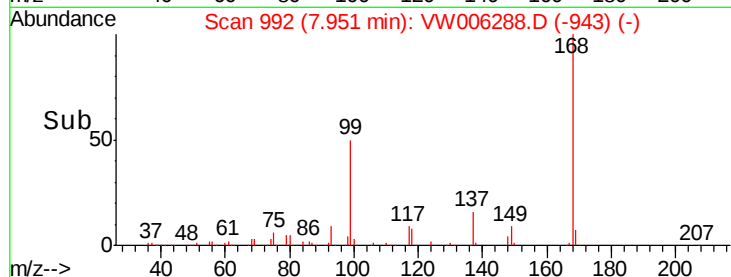
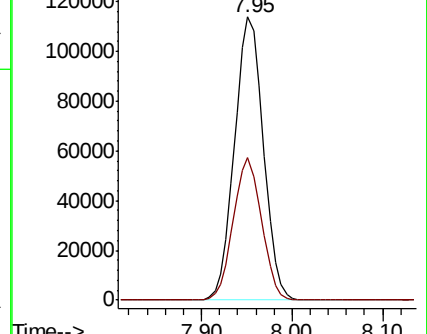
168 100

99 50.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#20

Methylene Chloride

Concen: 3.169 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW006288.D

Acq: 23 Oct 2018 09:14

Tgt Ion: 84 Resp: 10350

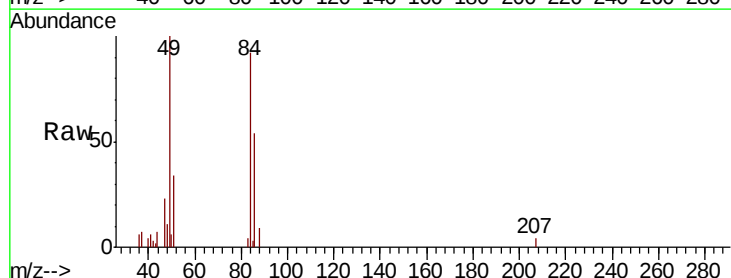
Ion Ratio Lower Upper

84 100

49 108.7 93.6 140.4

51 36.6 29.0 43.4

86 58.9 52.6 79.0

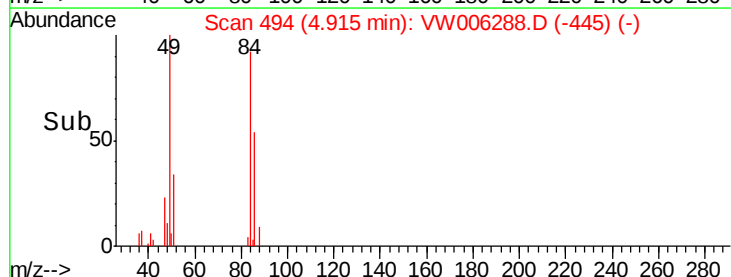
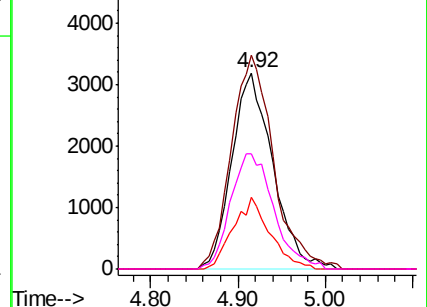


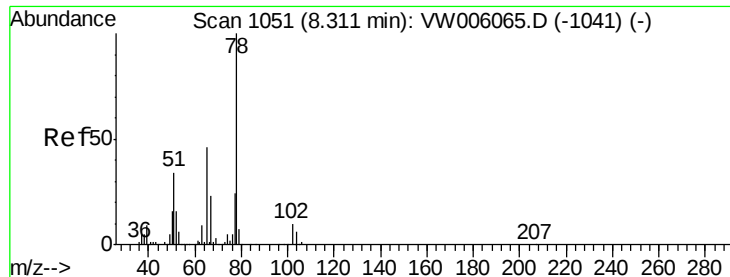
Abundance Ion 83.90 (83.60 to 84.60): VW

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

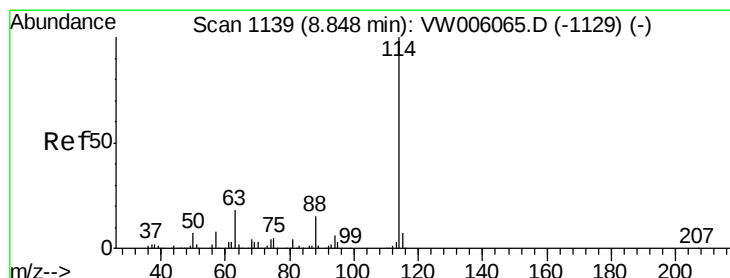
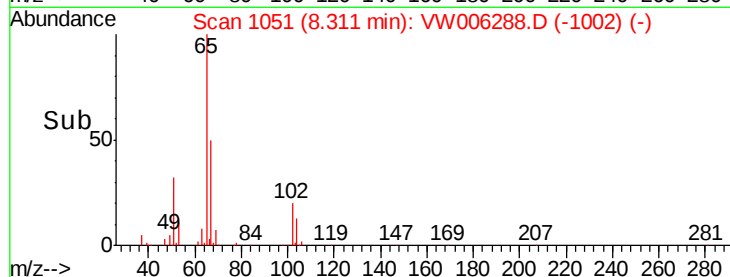
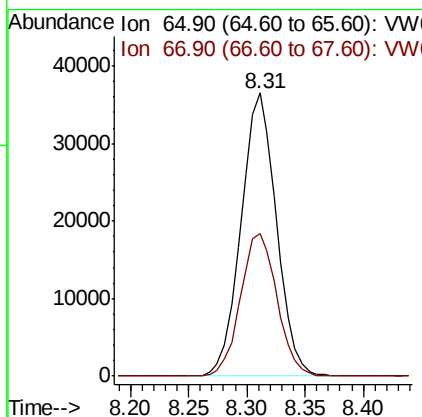
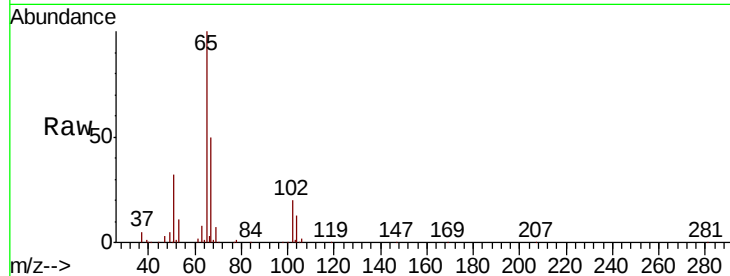




#33  
 1,2-Dichloroethane-d4  
 Concen: 37.174 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. -0.00 min  
 Lab File: VW006288.D  
 Acq: 23 Oct 2018 09:14

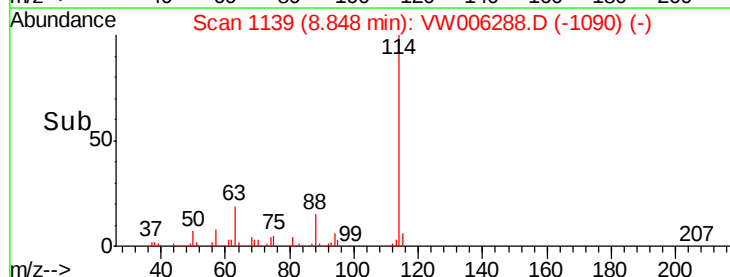
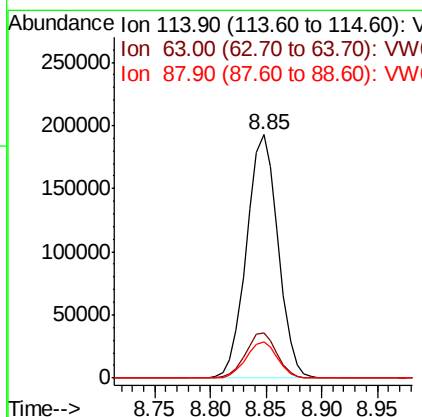
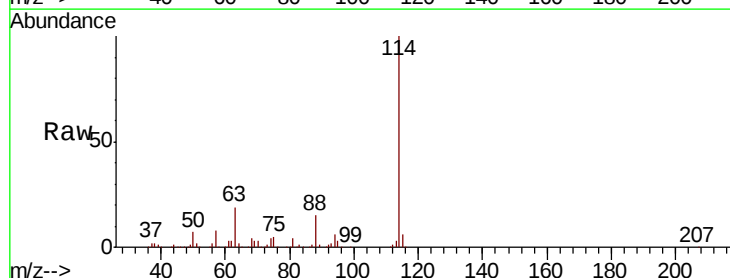
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PA-SED-02

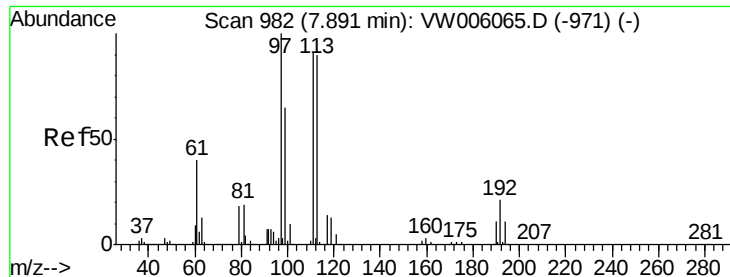
Tot Ion: 65 Resp: 77474  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 101.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: VW006288.D  
 Acq: 23 Oct 2018 09:14

Tgt Ion: 114 Resp: 379415  
 Ion Ratio Lower Upper  
 114 100  
 63 18.5 0.0 36.8  
 88 15.0 0.0 29.0

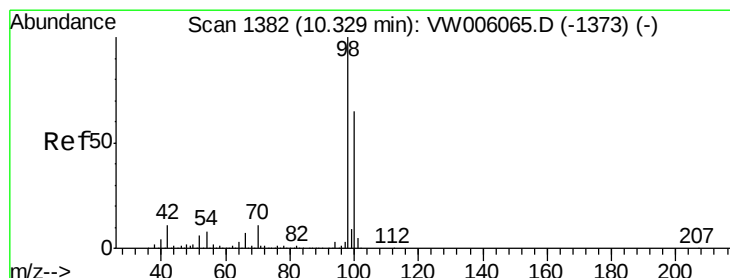
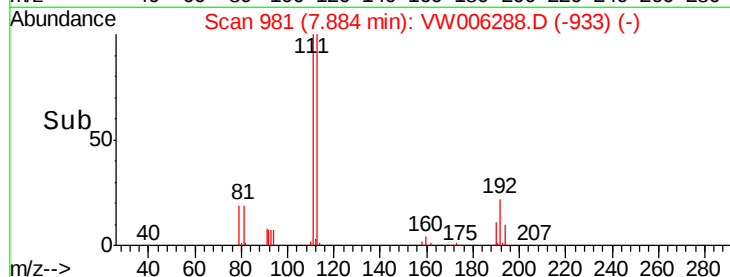
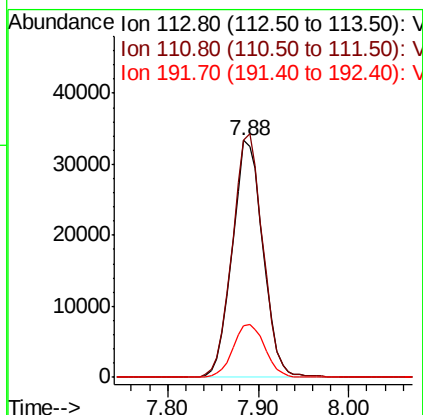
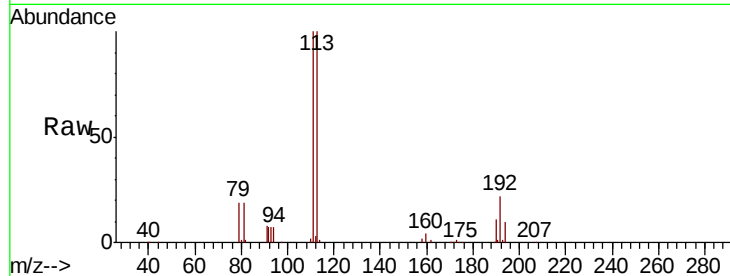




#35  
 Dibromofluoromethane  
 Concen: 34.880 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.01 min  
 Lab File: VW006288.D  
 Acq: 23 Oct 2018 09:14

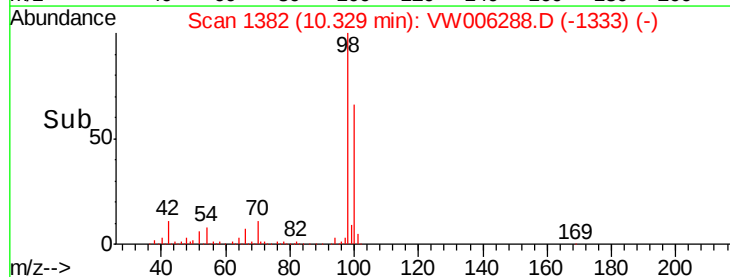
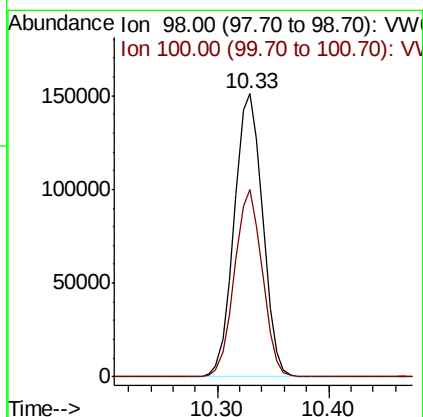
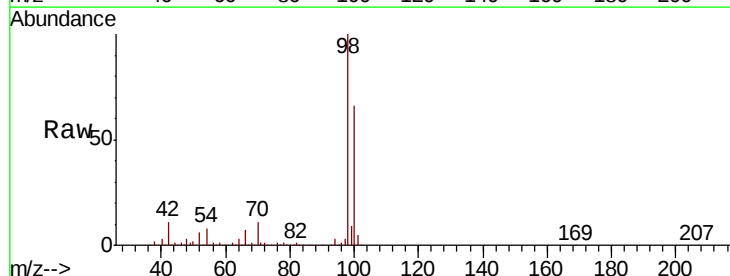
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PA-SED-02

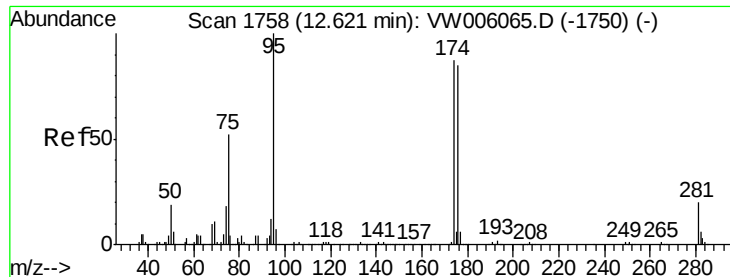
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.4 | 81.4  | 122.0 |
| 192     | 23.1  | 18.7  | 28.1  |



#50  
 Toluene-d8  
 Concen: 31.295 ug/l  
 RT: 10.33 min Scan# 1382  
 Delta R.T. -0.00 min  
 Lab File: VW006288.D  
 Acq: 23 Oct 2018 09:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.6  | 51.6  | 77.4  |





#62

4-Bromofluorobenzene

Concen: 32.177 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006288.D

Acq: 23 Oct 2018 09:14

Instrument :

MSVOA\_W

ClientSampleId :

PA-SED-02

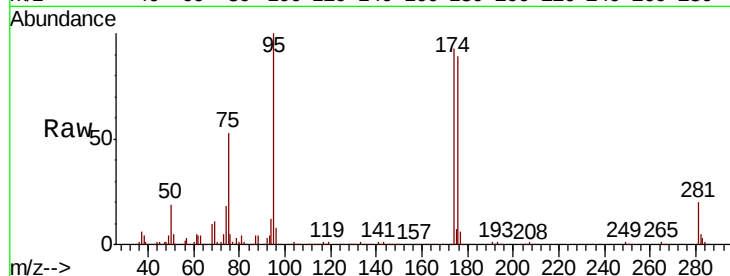
Tot Ion: 95 Resp: 103080

Ion Ratio Lower Upper

95 100

174 95.7 0.0 186.0

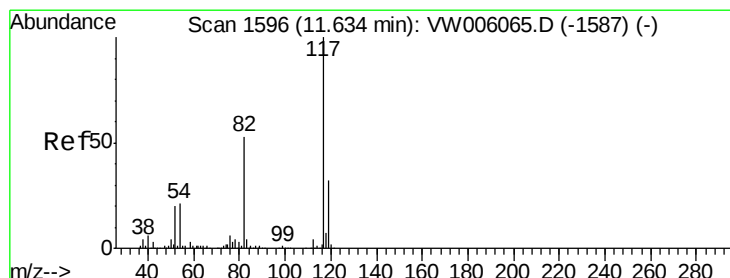
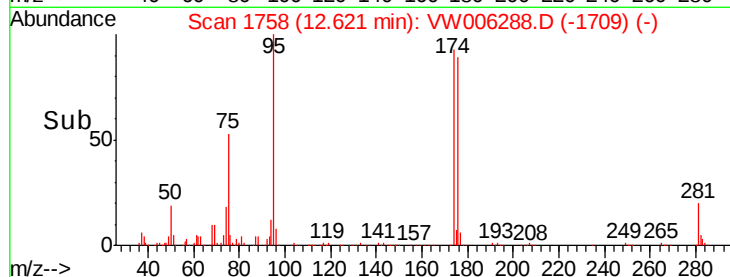
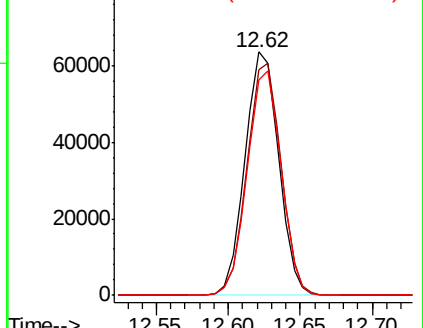
176 92.5 0.0 181.6



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: VW006288.D

Acq: 23 Oct 2018 09:14

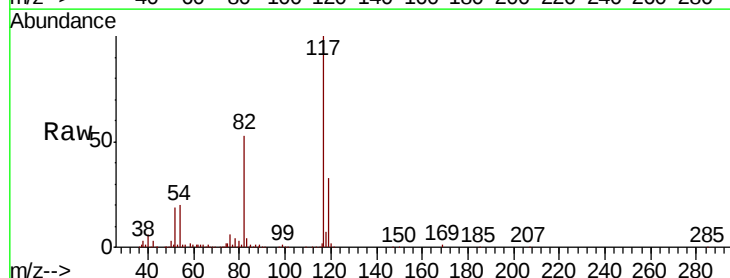
Tgt Ion: 117 Resp: 348711

Ion Ratio Lower Upper

117 100

82 52.8 42.1 63.1

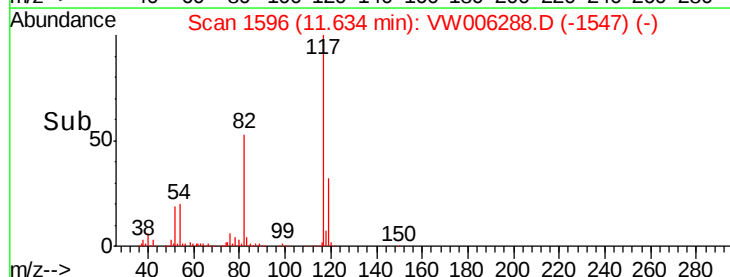
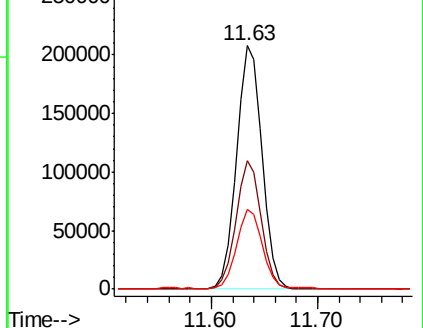
119 32.2 25.8 38.6

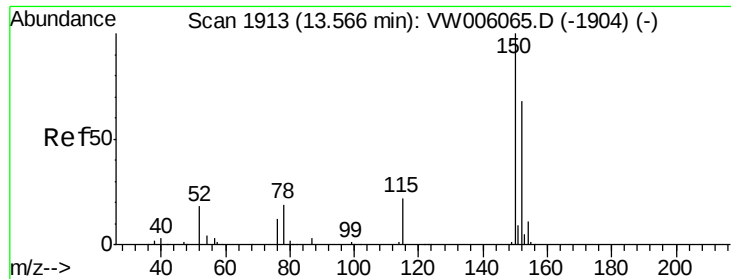


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

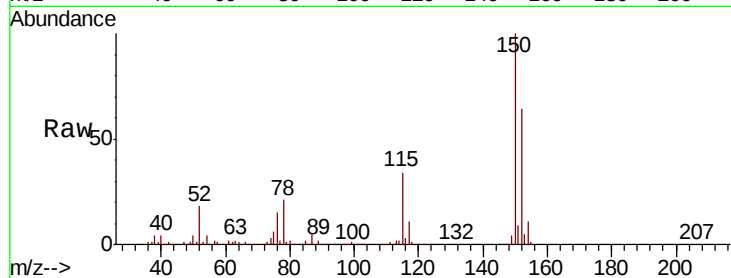




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.57 min Scan# 1913  
 Delta R.T. -0.00 min  
 Lab File: VW006288.D  
 Acq: 23 Oct 2018 09:14

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PA-SED-02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.2  | 27.8  | 83.3  |
| 150     | 157.5 | 0.0   | 349.2 |



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

