

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071618\  
 Data File : VW003963.D  
 Acq On : 16 Jul 2018 20:35  
 Operator : VA/AP  
 Sample : J3980-03  
 Misc : 4.77G/5ML/MSVOA W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-E-MH-S

Quant Time: Jul 17 06:57:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W071618S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 16 15:06:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 176845   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 289524   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 237060   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 84257    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 122257   | 61.85  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 123.70% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 102274   | 55.06  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 110.12% |          |
| 50) Toluene-d8              | 10.33 | 98   | 340712   | 47.27  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 94.54%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 95683    | 36.81  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 73.62%  |          |

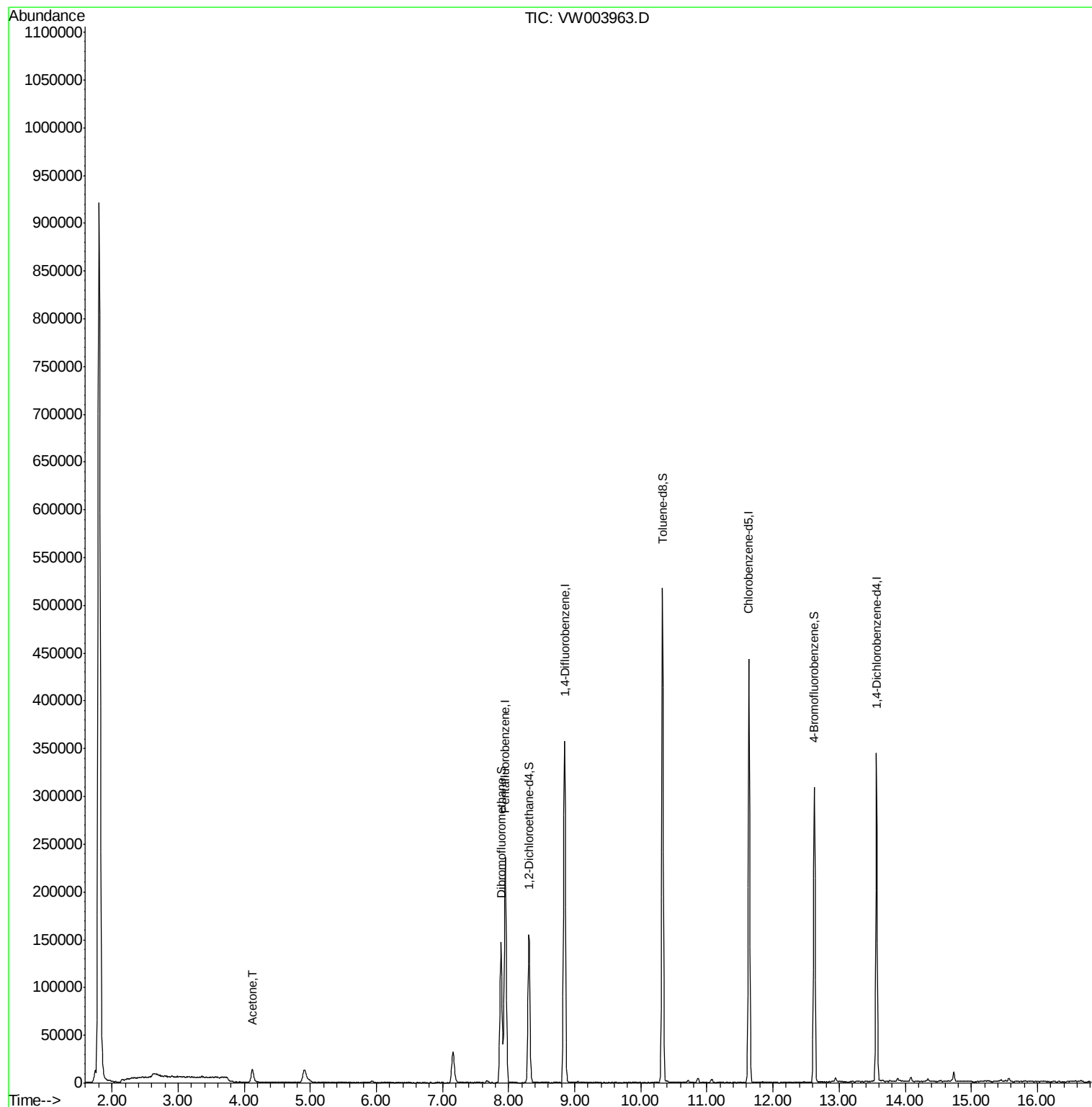
| Target Compounds | R.T. | QIon | Response | Conc  | Units | Qvalue |
|------------------|------|------|----------|-------|-------|--------|
| 16) Acetone      | 4.12 | 43   | 24203    | 50.95 | ug/l  | 93     |

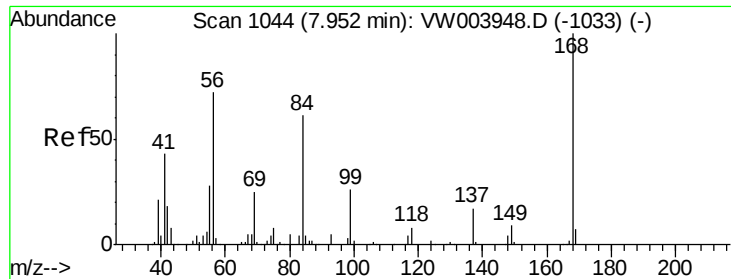
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 17 06:57:22 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W071618S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 16 15:06:12 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW003963.D

Acq: 16 Jul 2018 20:35

Instrument :

MSVOA\_W

ClientSampleId :

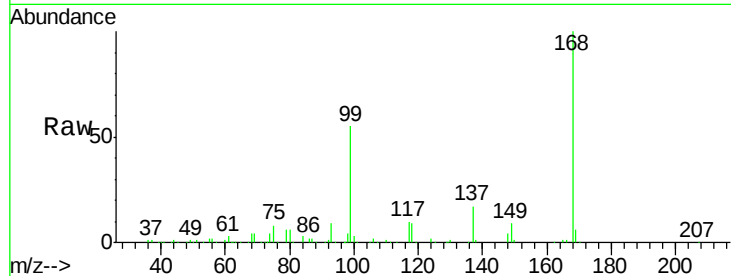
TP-E-MH-S

Tot Ion:168 Resp: 176845

Ion Ratio Lower Upper

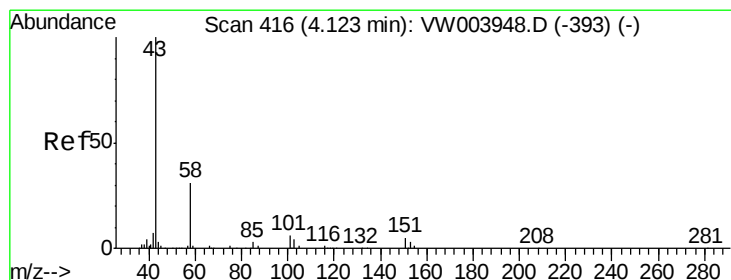
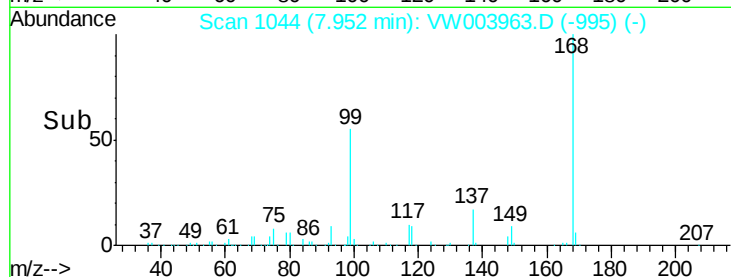
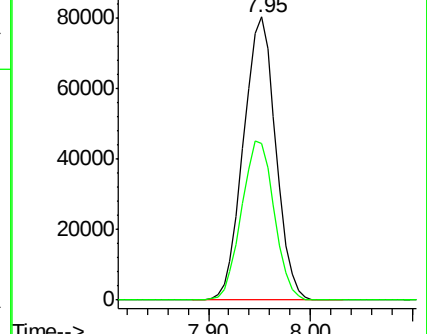
168 100

99 55.1 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 50.95 ug/l

RT: 4.12 min Scan# 416

Delta R.T. -0.00 min

Lab File: VW003963.D

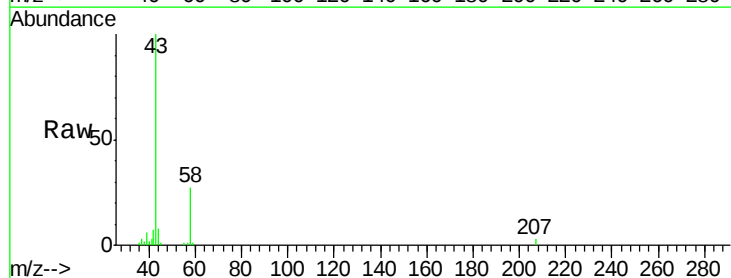
Acq: 16 Jul 2018 20:35

Tgt Ion: 43 Resp: 24203

Ion Ratio Lower Upper

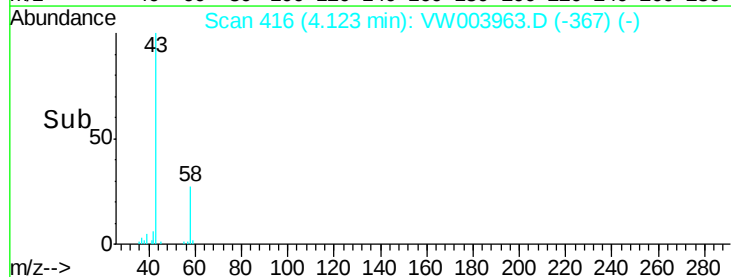
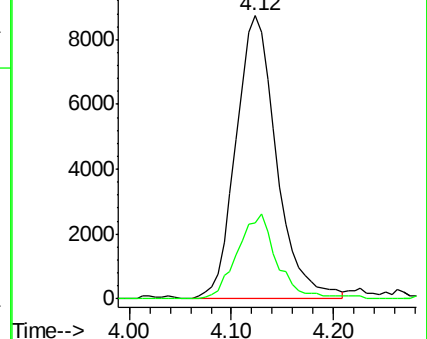
43 100

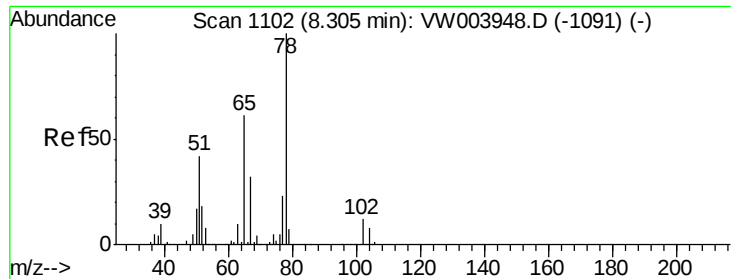
58 26.7 24.5 36.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

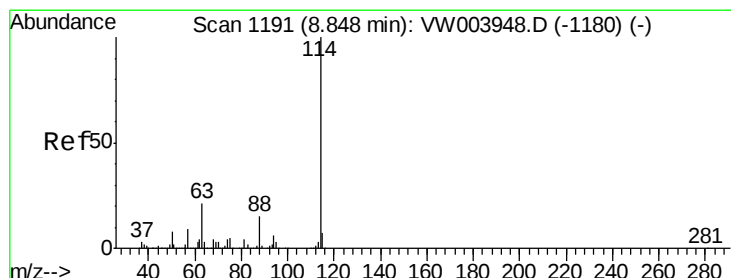
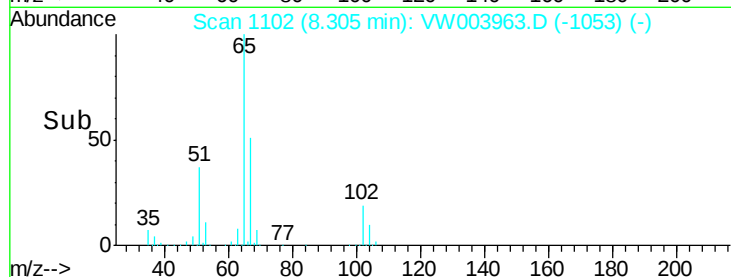
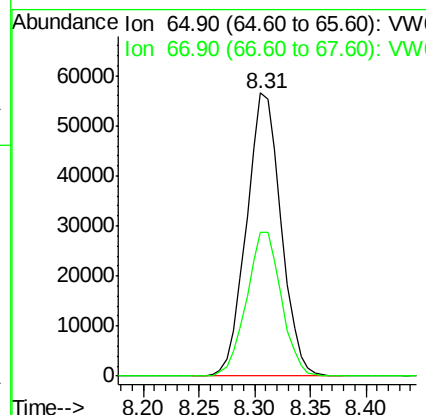
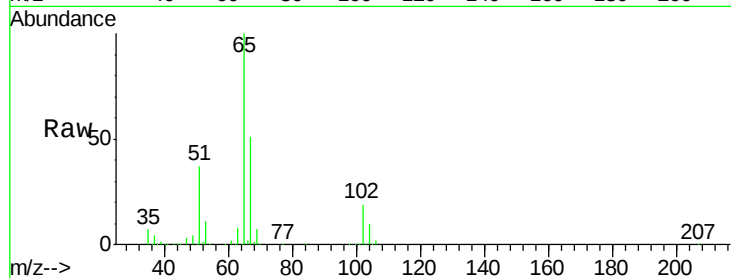




#33  
 1,2-Dichloroethane-d4  
 Concen: 61.85 ug/l  
 RT: 8.31 min Scan# 1102  
 Delta R.T. -0.00 min  
 Lab File: VW003963.D  
 Acq: 16 Jul 2018 20:35

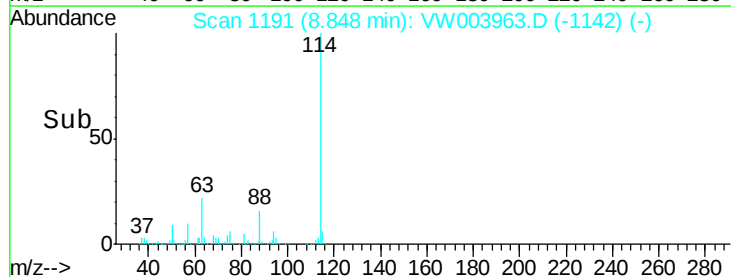
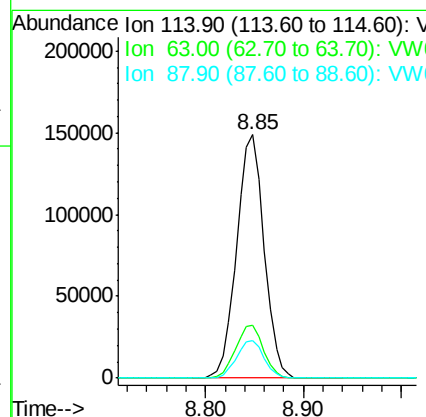
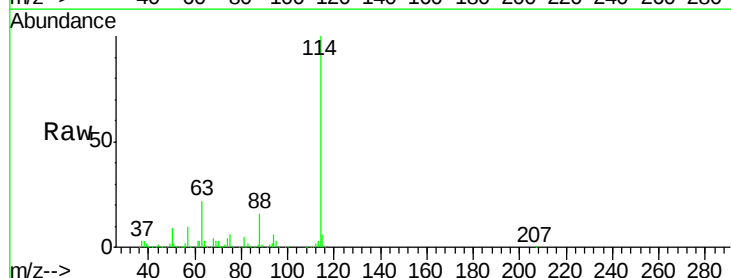
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 TP-E-MH-S

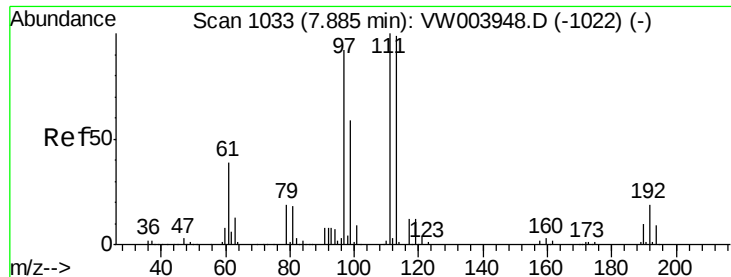
Tot Ion: 65 Resp: 122257  
 Ion Ratio Lower Upper  
 65 100  
 67 51.2 0.0 105.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW003963.D  
 Acq: 16 Jul 2018 20:35

Tgt Ion: 114 Resp: 289524  
 Ion Ratio Lower Upper  
 114 100  
 63 21.8 0.0 42.8  
 88 15.7 0.0 30.4

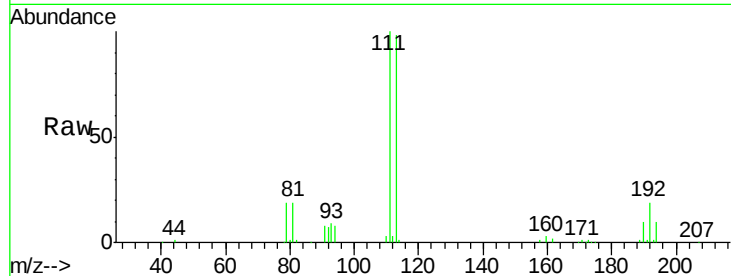




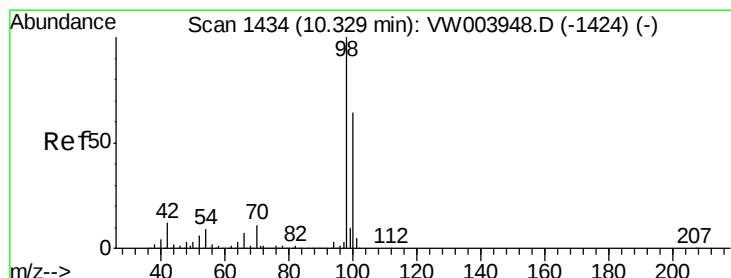
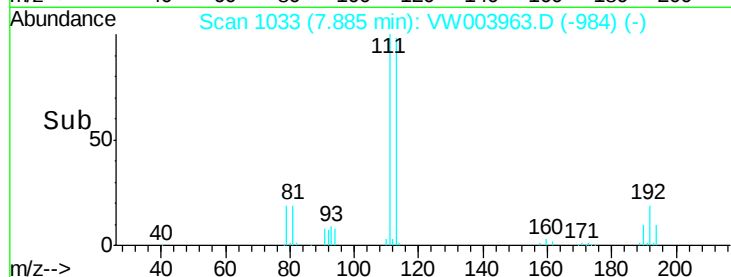
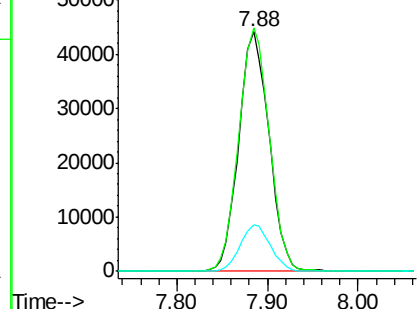
#35  
Dibromofluoromethane  
Concen: 55.06 ug/l  
RT: 7.88 min Scan# 1033  
Delta R.T. -0.00 min  
Lab File: VW003963.D  
Acq: 16 Jul 2018 20:35

Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-E-MH-S

Tot Ion:113 Resp: 102274  
Ion Ratio Lower Upper  
113 100  
111 103.0 81.3 121.9  
192 19.4 15.8 23.6

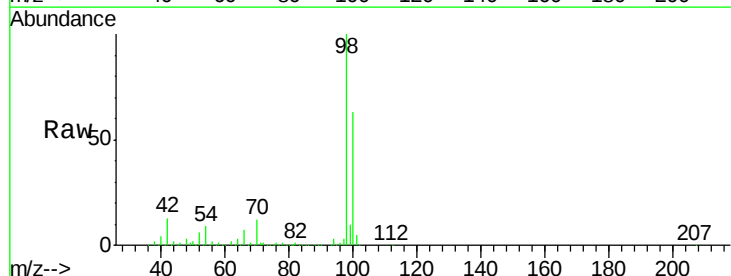


Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

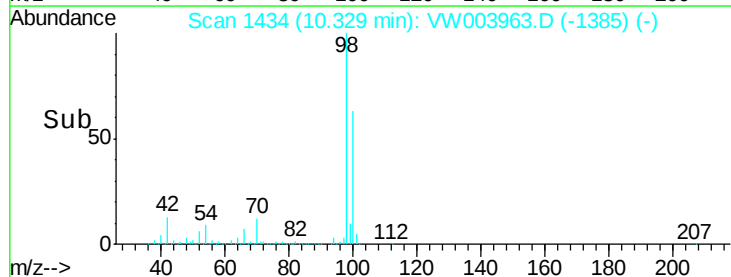
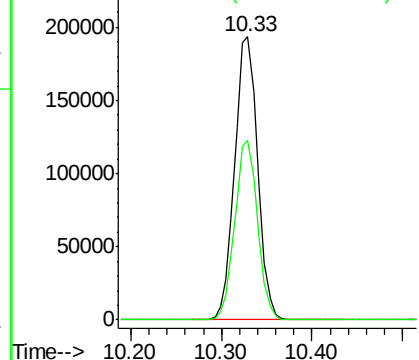


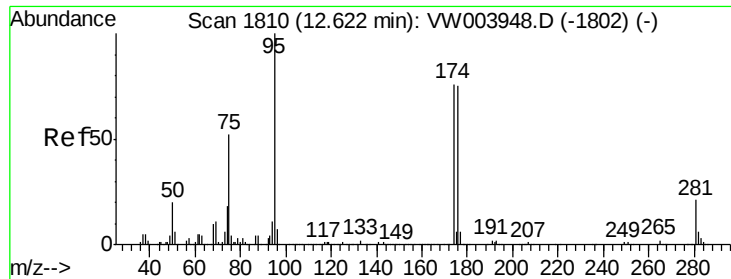
#50  
Toluene-d8  
Concen: 47.27 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. -0.00 min  
Lab File: VW003963.D  
Acq: 16 Jul 2018 20:35

Tgt Ion: 98 Resp: 340712  
Ion Ratio Lower Upper  
98 100  
100 62.6 51.2 76.8



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

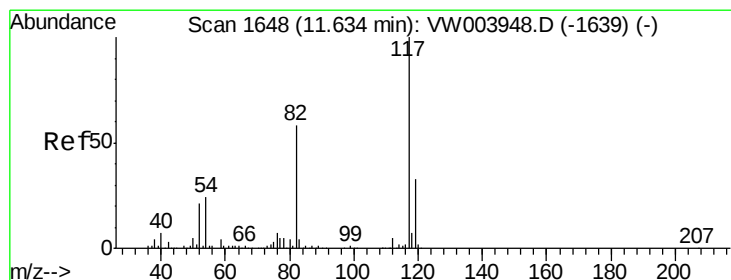
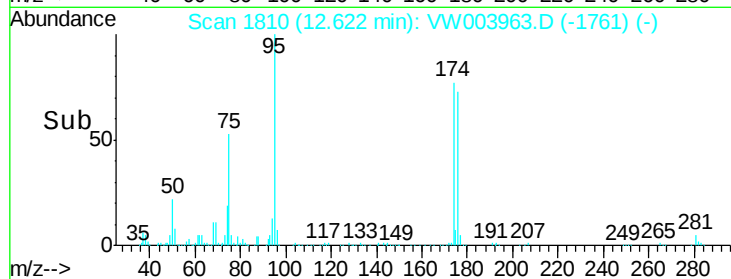
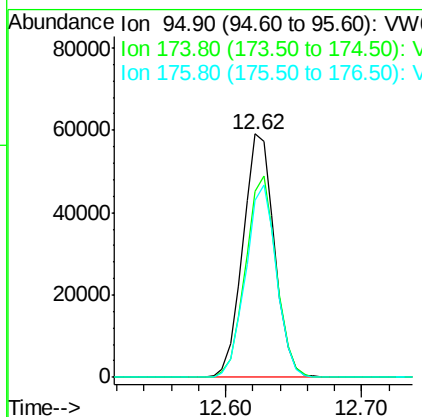
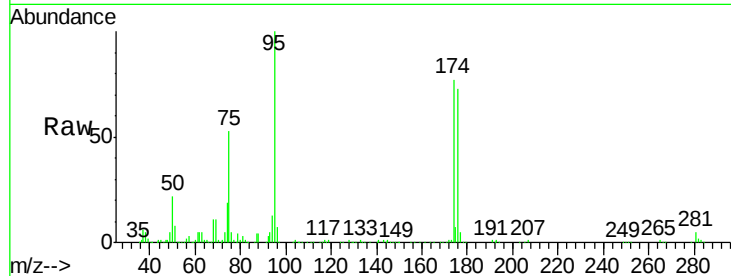




#62  
4-Bromofluorobenzene  
Concen: 36.81 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VW003963.D  
Acq: 16 Jul 2018 20:35

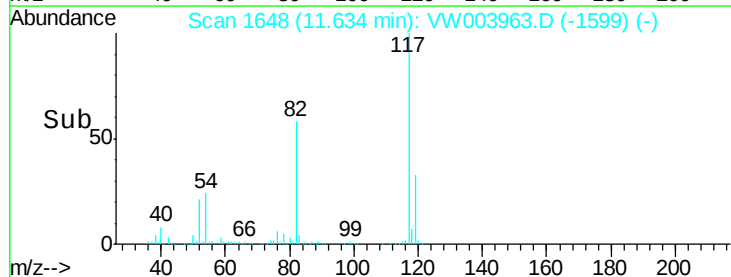
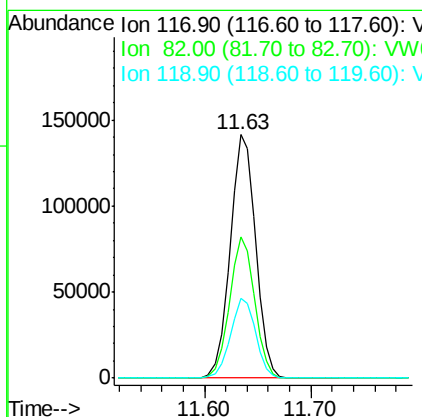
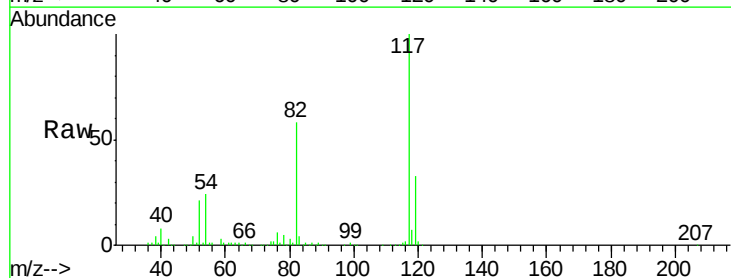
Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-E-MH-S

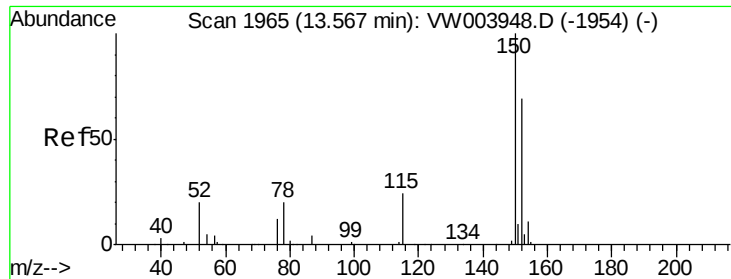
Tot Ion: 95 Resp: 95683  
Ion Ratio Lower Upper  
95 100  
174 81.1 0.0 160.2  
176 77.6 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW003963.D  
Acq: 16 Jul 2018 20:35

Tgt Ion: 117 Resp: 237060  
Ion Ratio Lower Upper  
117 100  
82 58.1 46.5 69.7  
119 32.8 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW003963.D

Acq: 16 Jul 2018 20:35

Instrument :

MSVOA\_W

ClientSampleId :

TP-E-MH-S

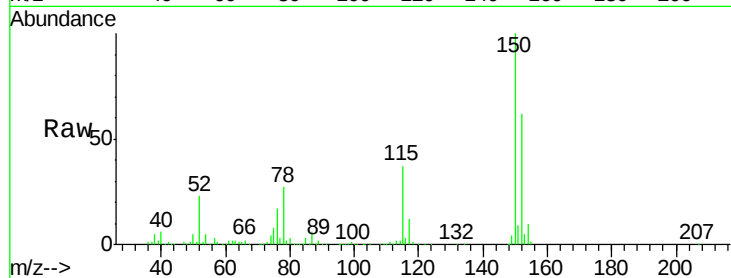
Tot Ion:152 Resp: 84257

Ion Ratio Lower Upper

152 100

115 59.3 29.2 87.6

150 158.3 0.0 345.2



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

