

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW073018\  
 Data File : VW004341.D  
 Acq On : 30 Jul 2018 05:01  
 Operator : SY/AP  
 Sample : J4189-07  
 Misc : 6.43G/5ML/MSVOA W/SOIL  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-12-D

Quant Time: Jul 30 07:15:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 30 02:37:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 133758   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 213305   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 187221   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 101354   | 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   | 72290    | 53.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.16% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 68288    | 50.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.32% |          |
| 50) Toluene-d8              | 10.33 | 98   | 250881   | 47.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.18%  |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 83603    | 44.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.14%  |          |

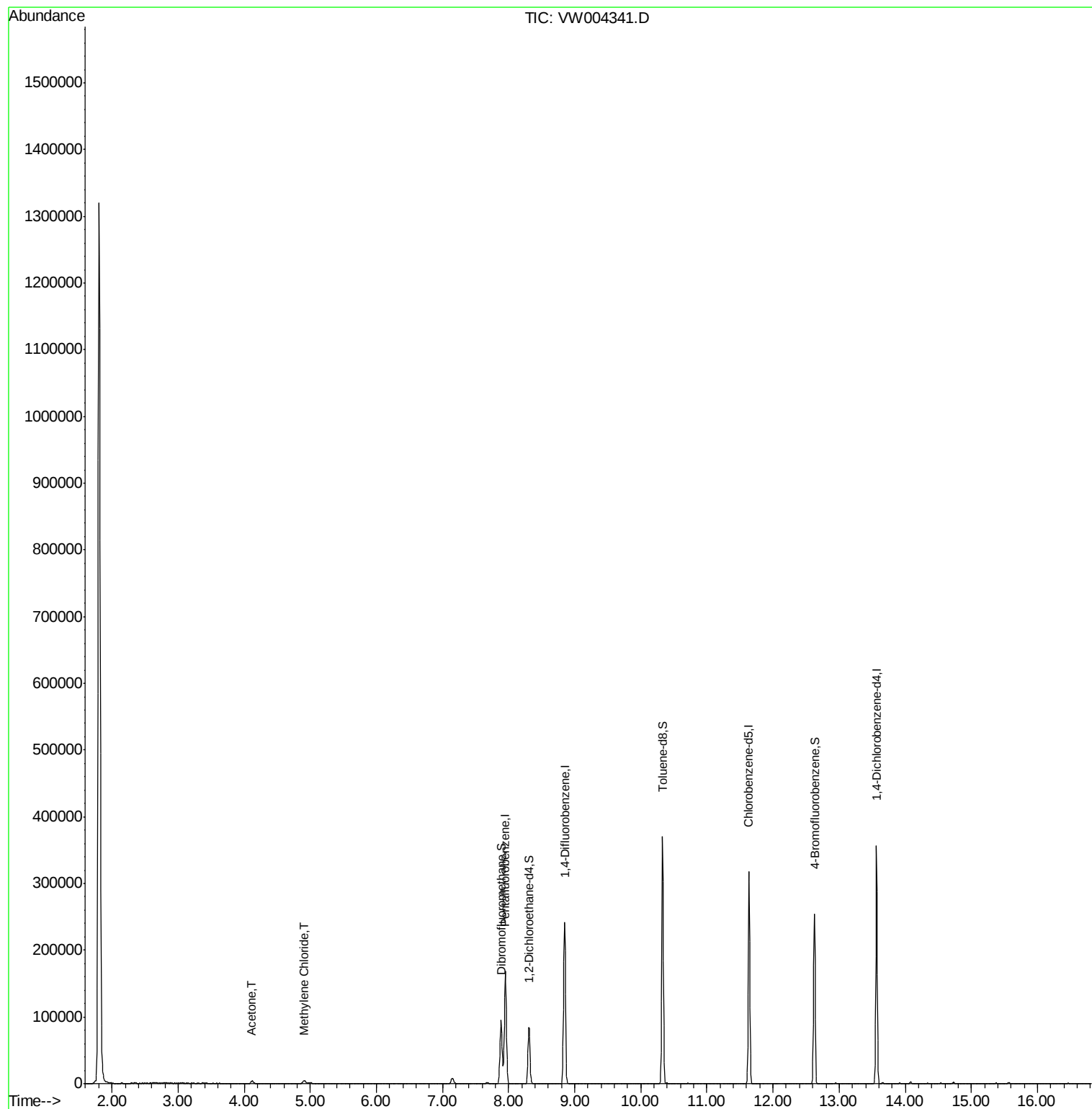
| Target Compounds       | R.T. | QIon | Response | Conc  | Units  | Qvalue |
|------------------------|------|------|----------|-------|--------|--------|
| 16) Acetone            | 4.12 | 43   | 7860     | 35.12 | ug/l # | 88     |
| 20) Methylene Chloride | 4.90 | 84   | 4248     | 1.80  | ug/l # | 75     |

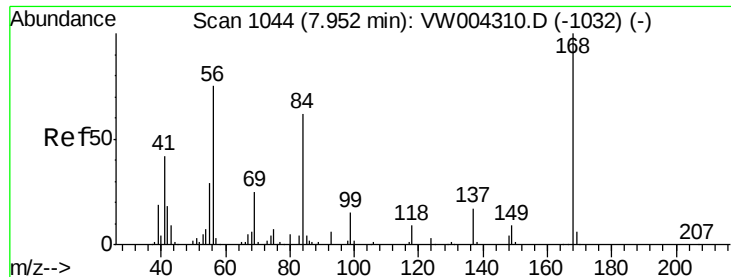
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW073018\  
Data File : VW004341.D  
Acq On : 30 Jul 2018 05:01  
Operator : SY/AP  
Sample : J4189-07  
Misc : 6.43G/5ML/MSVOA W/SOIL  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-12-D

Quant Time: Jul 30 07:15:05 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W073018S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 30 02:37:04 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: VW004341.D

Acq: 30 Jul 2018 05:01

Instrument :

MSVOA\_W

ClientSampleId :

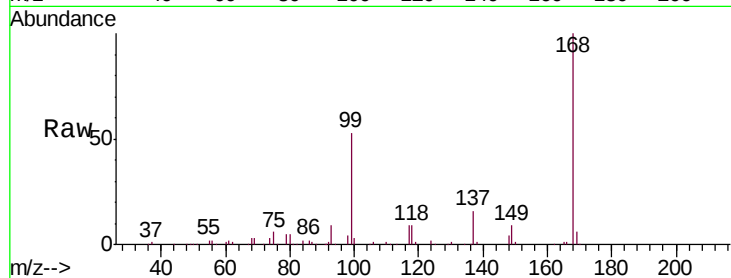
TP-12-D

Tot Ion:168 Resp: 133758

Ion Ratio Lower Upper

168 100

99 52.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

60000

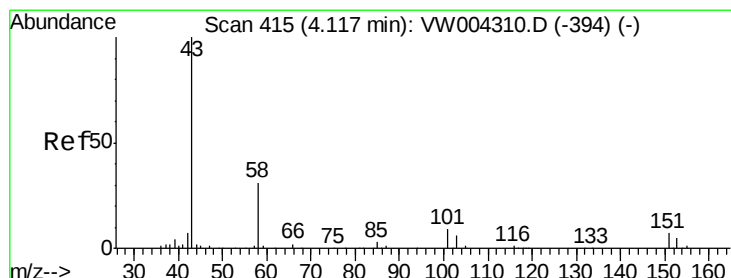
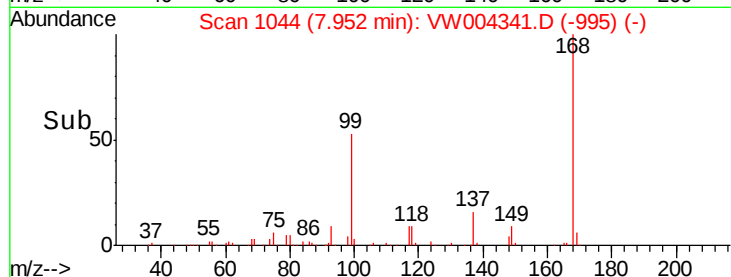
40000

20000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#16

Acetone

Concen: 35.12 ug/l

RT: 4.12 min Scan# 415

Delta R.T. 0.00 min

Lab File: VW004341.D

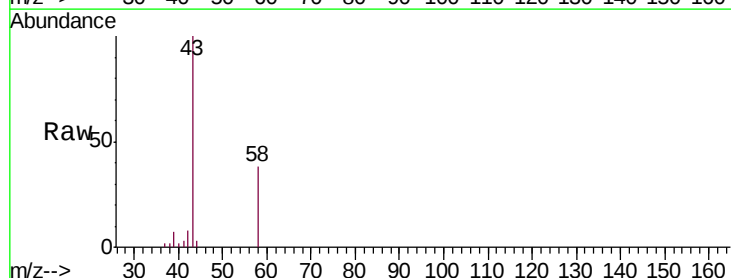
Acq: 30 Jul 2018 05:01

Tgt Ion: 43 Resp: 7860

Ion Ratio Lower Upper

43 100

58 37.6 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

3000

2500

2000

1500

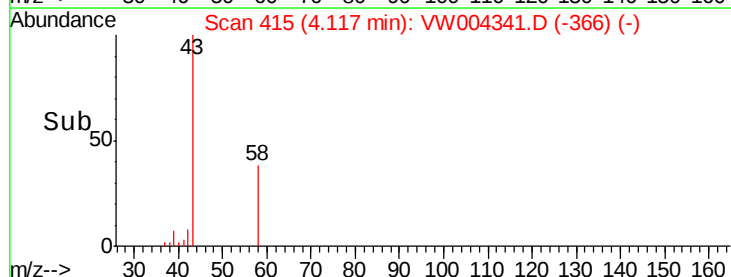
1000

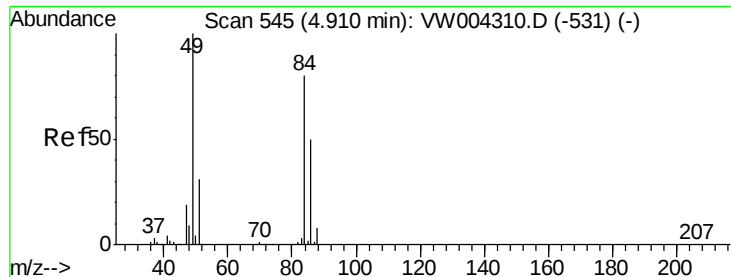
500

0

4.00 4.05 4.10 4.15 4.20

Time-->

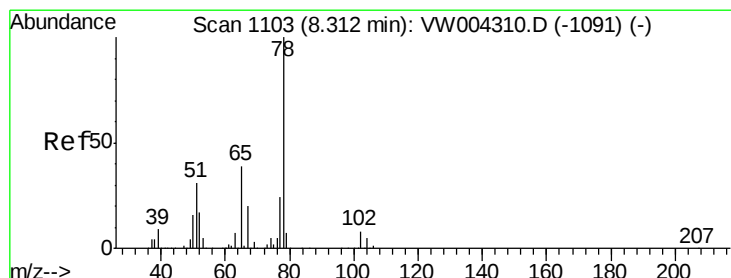
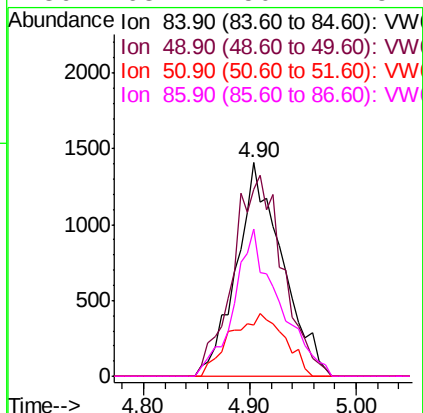
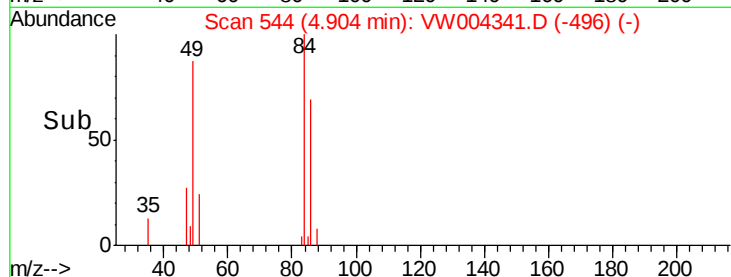
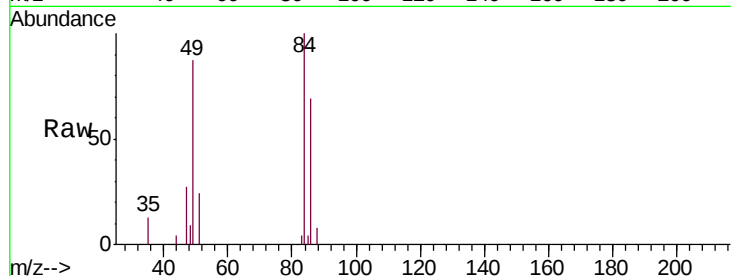




#20  
Methvlene Chloride  
Concen: 1.80 ug/l  
RT: 4.90 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: VW004341.D  
Acq: 30 Jul 2018 05:01

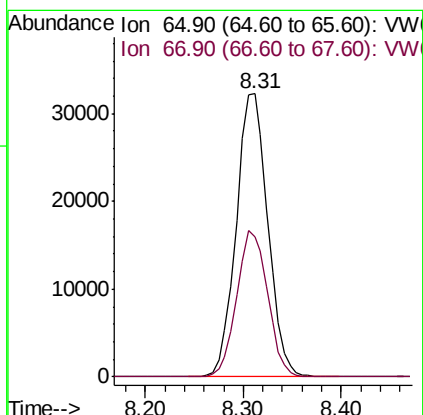
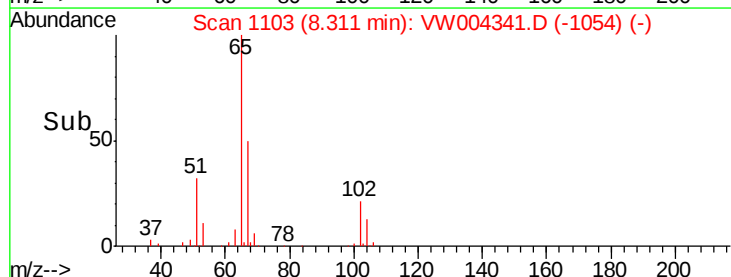
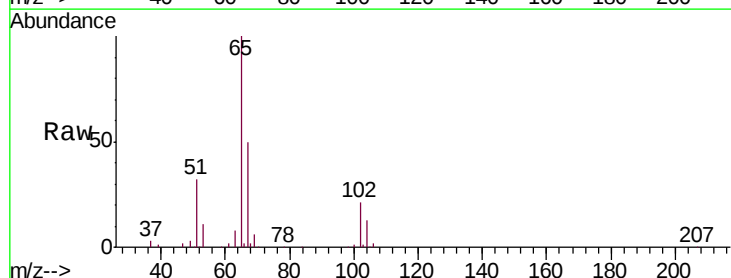
Instrument :  
MSVOA\_W  
ClientSampled :  
TP-12-D

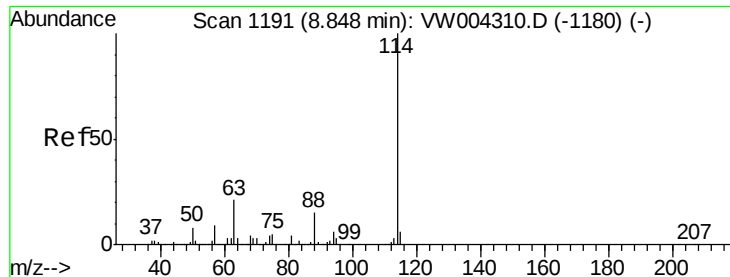
| Tot Ion | 84    | Resp  | 4248   |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 84      | 100   |       |        |
| 49      | 87.4  | 100.5 | 150.7# |
| 51      | 23.8  | 30.9  | 46.3#  |
| 86      | 68.7  | 50.2  | 75.4   |



#33  
1,2-Dichloroethane-d4  
Concen: 53.58 ug/l  
RT: 8.31 min Scan# 1103  
Delta R.T. -0.00 min  
Lab File: VW004341.D  
Acq: 30 Jul 2018 05:01

| Tgt Ion | 65    | Resp  | 72290 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 65      | 100   |       |       |
| 67      | 50.4  | 0.0   | 106.4 |

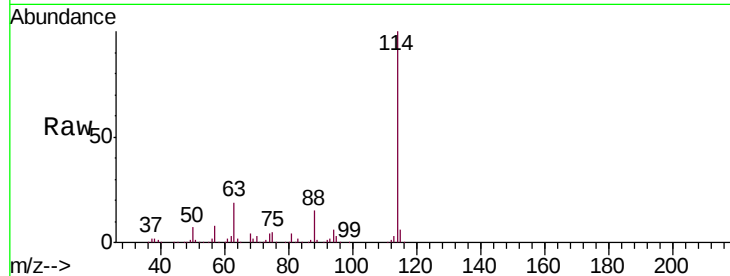




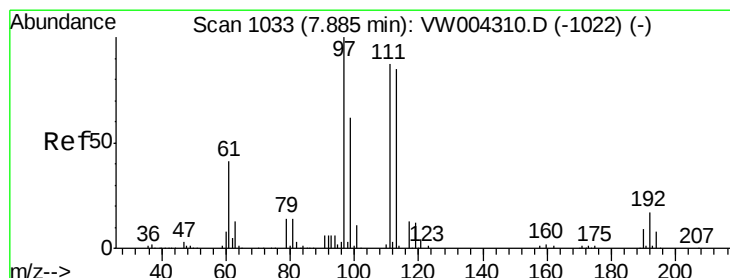
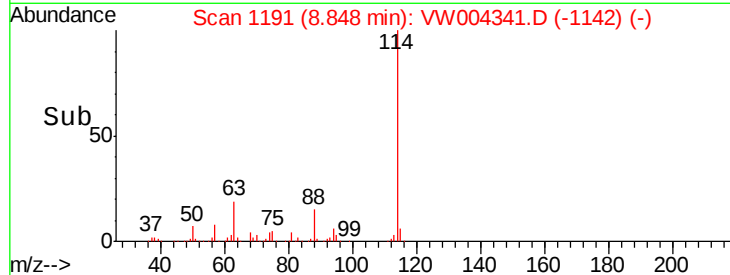
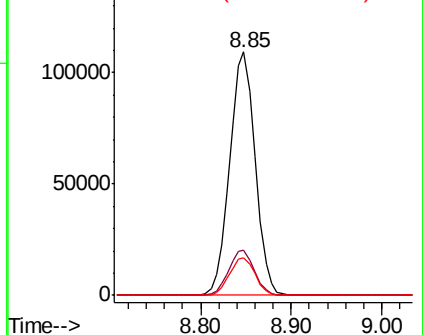
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW004341.D  
 Acq: 30 Jul 2018 05:01

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-12-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.5  | 0.0   | 41.4  |
| 88      | 15.2  | 0.0   | 30.6  |

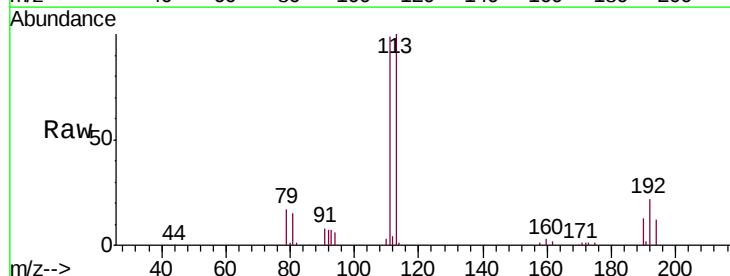


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

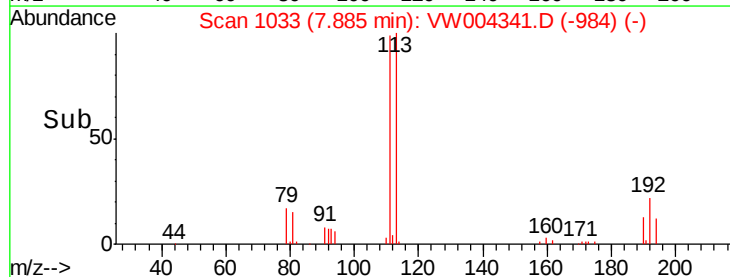
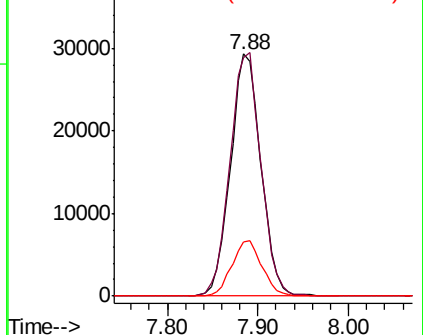


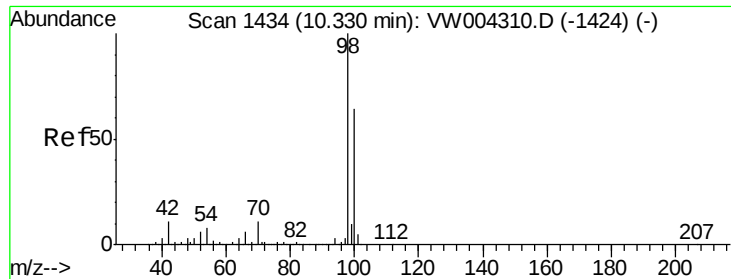
#35  
 Dibromofluoromethane  
 Concen: 50.66 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW004341.D  
 Acq: 30 Jul 2018 05:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 82.1  | 123.1 |
| 192     | 22.6  | 16.2  | 24.4  |



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: 47.09 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW004341.D

Acq: 30 Jul 2018 05:01

Instrument :

MSVOA\_W

ClientSampleId :

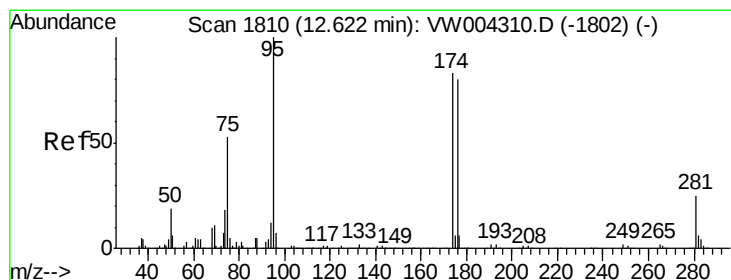
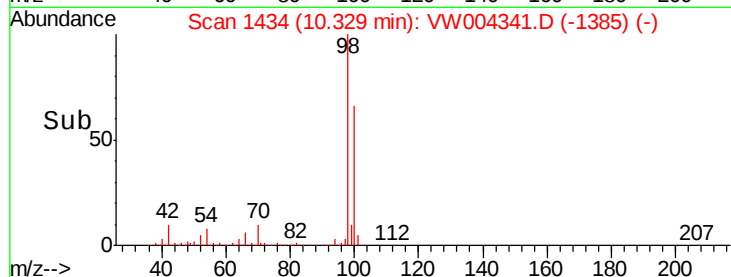
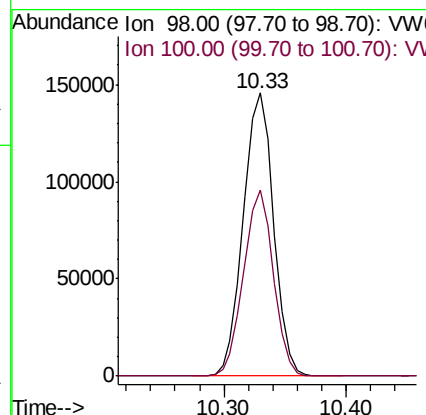
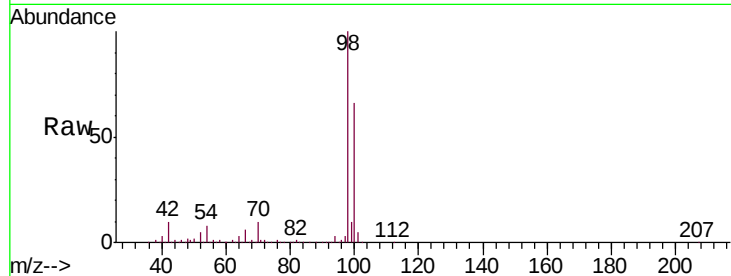
TP-12-D

Tot Ion: 98 Resp: 250881

Ion Ratio Lower Upper

98 100

100 64.6 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 44.57 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VW004341.D

Acq: 30 Jul 2018 05:01

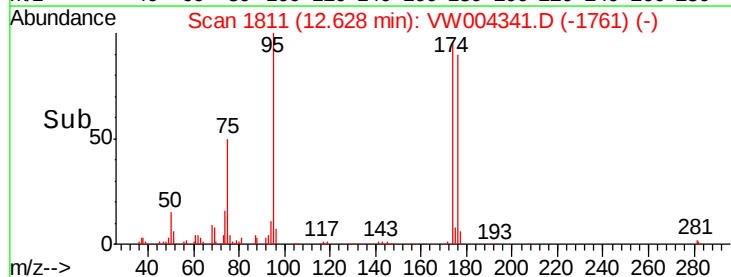
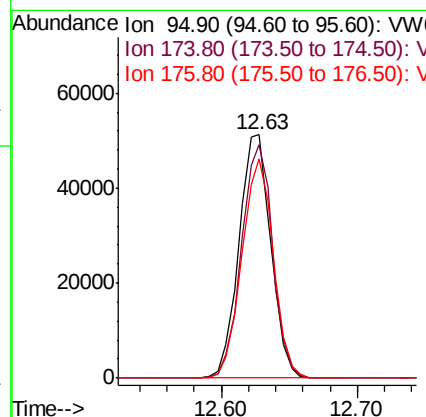
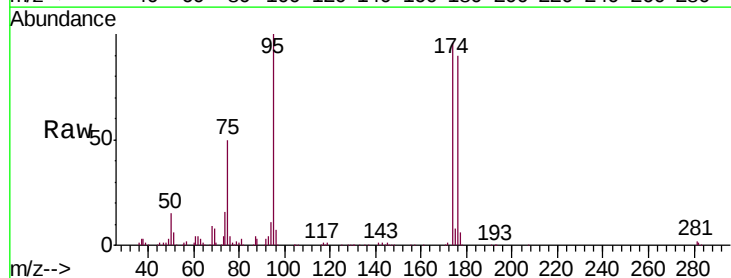
Tgt Ion: 95 Resp: 83603

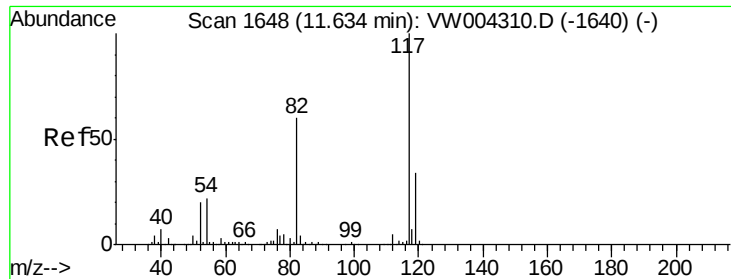
Ion Ratio Lower Upper

95 100

174 93.5 0.0 167.8

176 88.8 0.0 162.4

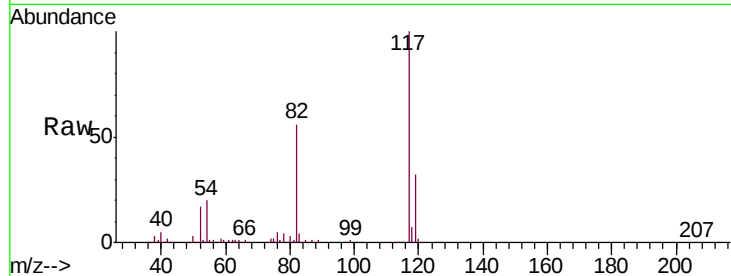




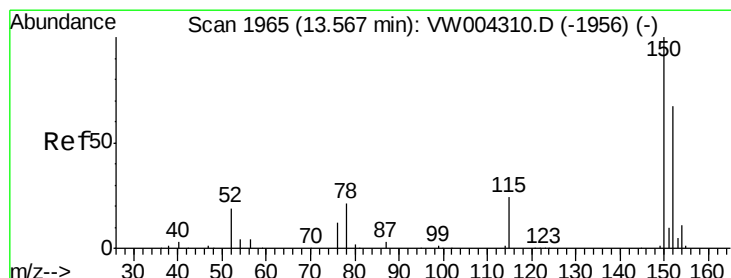
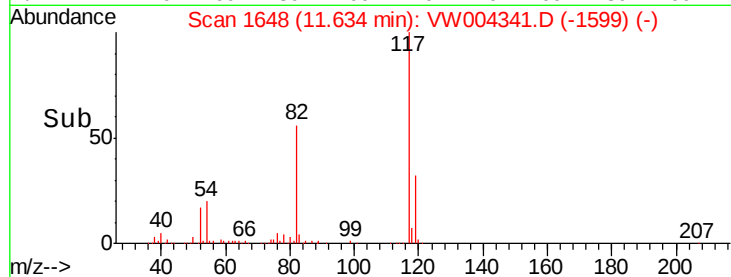
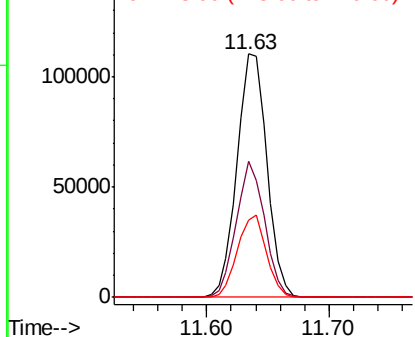
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW004341.D  
Acq: 30 Jul 2018 05:01

Instrument :  
MSVOA\_W  
ClientSampled :  
TP-12-D

Tot Ion:117 Resp: 187221  
Ion Ratio Lower Upper  
117 100  
82 55.9 47.9 71.9  
119 31.9 27.1 40.7

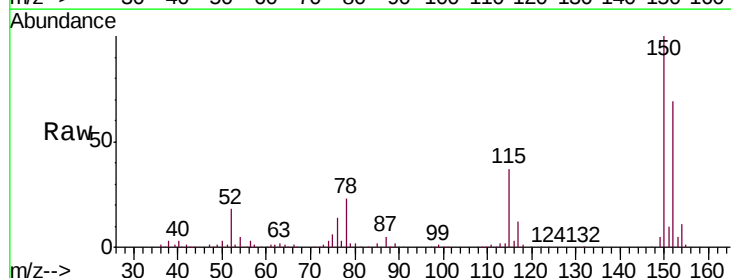


Abundance Ion 116.90 (116.60 to 117.60): V  
150000  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW004341.D  
Acq: 30 Jul 2018 05:01

Tgt Ion:152 Resp: 101354  
Ion Ratio Lower Upper  
152 100  
115 54.4 28.8 86.4  
150 147.3 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V  
120000  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

