

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083018\  
 Data File : VW005015.D  
 Acq On : 30 Aug 2018 13:52  
 Operator : SY/AP  
 Sample : J4277-09RE  
 Misc : 6.51G/5ML/MSVOA W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OR-01-082718-ARE

Quant Time: Aug 30 14:41:27 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 30 01:51:13 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 426660   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 650271   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 582951   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 257781   | 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   | 164254   | 56.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.56% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 158272   | 49.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.24%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 552348   | 31.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 62.44%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 205170   | 31.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 63.62%  |          |

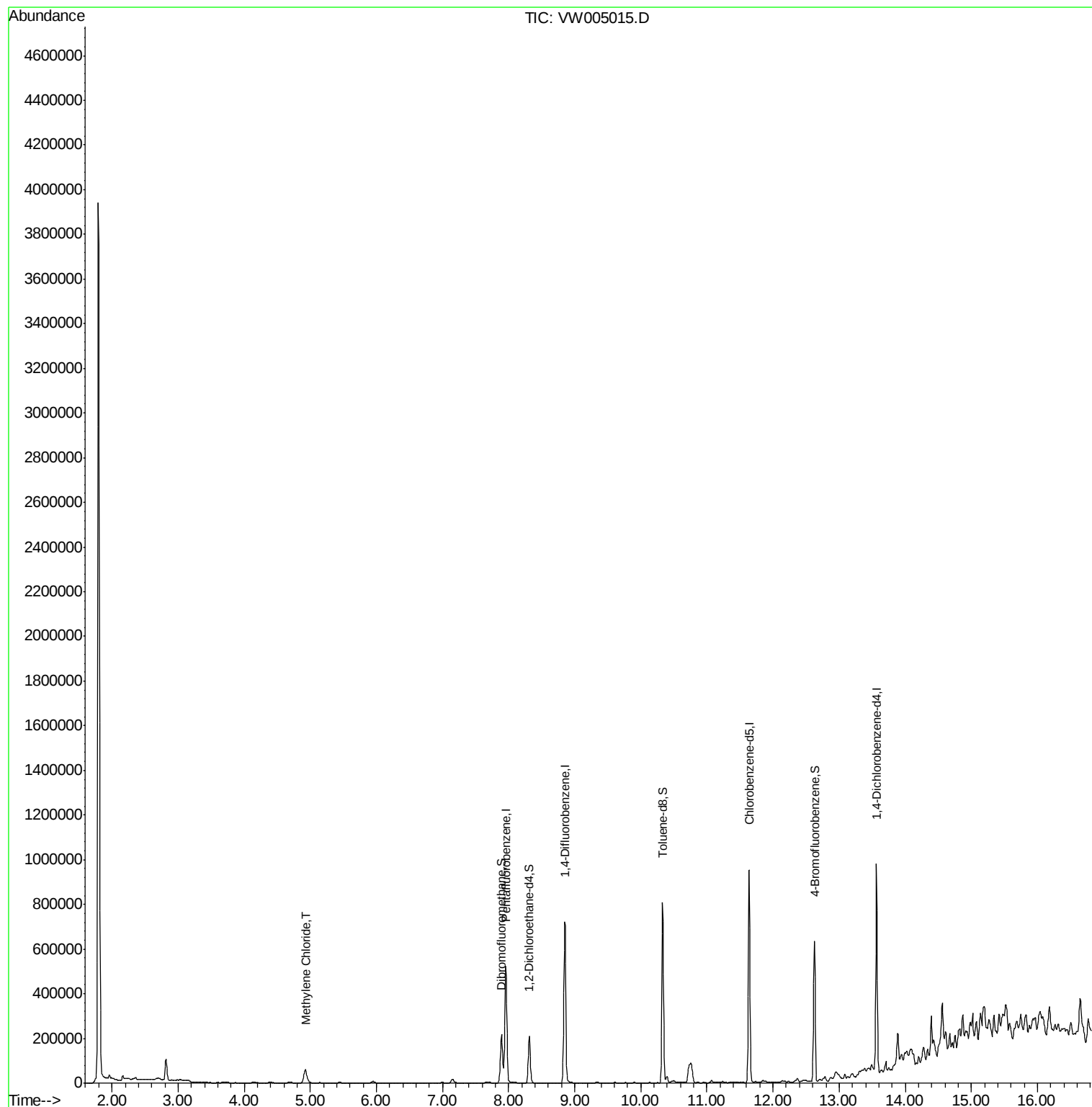
| Target Compounds       | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------|------|------|----------|------|-------|--------|
| 20) Methylene Chloride | 4.93 | 84   | 47731    | 6.23 | ug/l  | 94     |

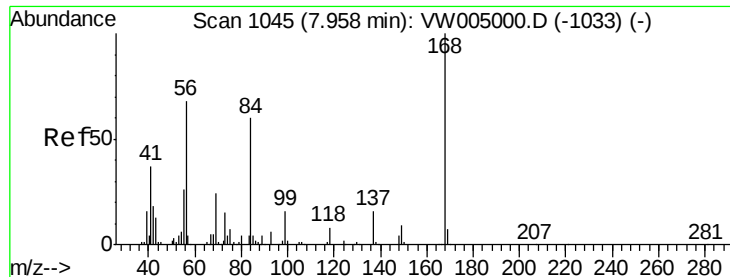
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 30 14:41:27 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082918S.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 30 01:51:13 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. -0.00 min

Lab File: VW005015.D

Acq: 30 Aug 2018 13:52

Instrument :

MSVOA\_W

ClientSampleId :

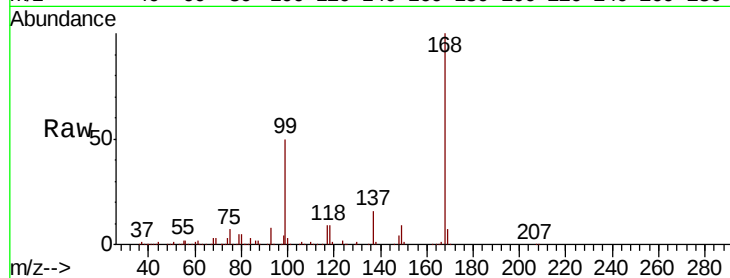
OR-01-082718-ARE

Tot Ion:168 Resp: 426660

Ion Ratio Lower Upper

168 100

99 49.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

200000

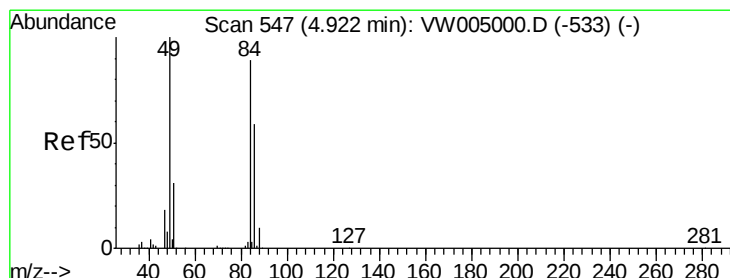
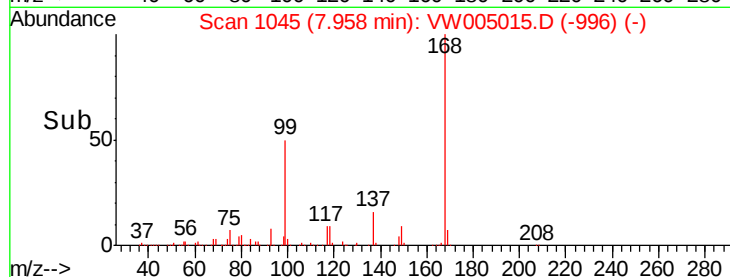
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 6.23 ug/l

RT: 4.93 min Scan# 548

Delta R.T. 0.01 min

Lab File: VW005015.D

Acq: 30 Aug 2018 13:52

Tgt Ion: 84 Resp: 47731

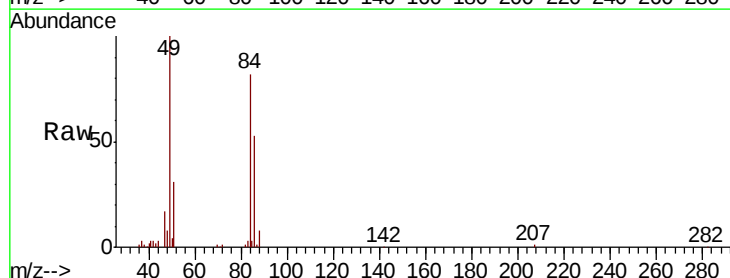
Ion Ratio Lower Upper

84 100

49 122.2 89.7 134.5

51 37.7 27.5 41.3

86 65.0 52.7 79.1



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

4.93

25000

20000

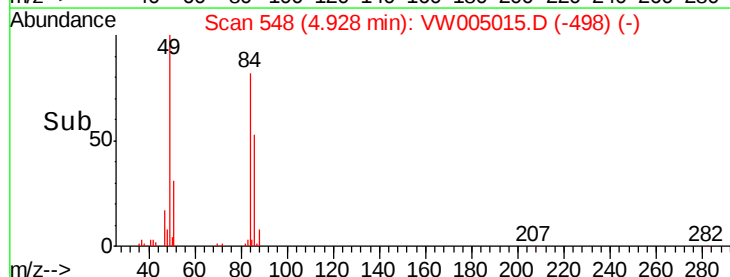
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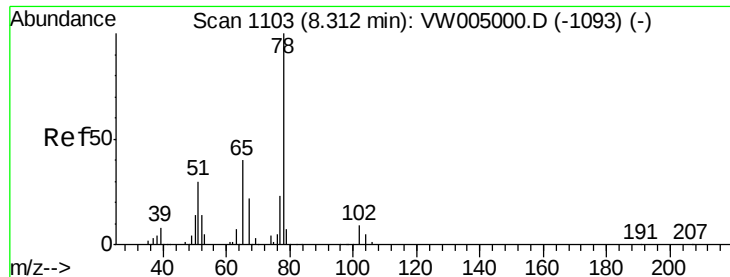
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5000

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Time-->

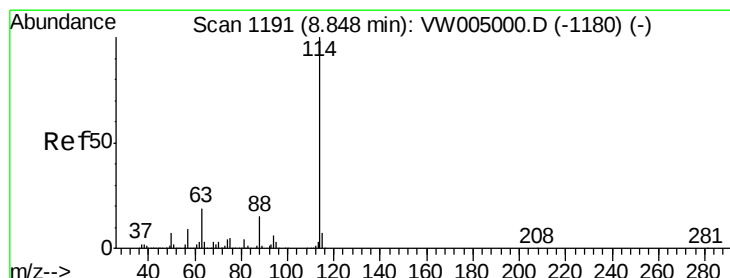
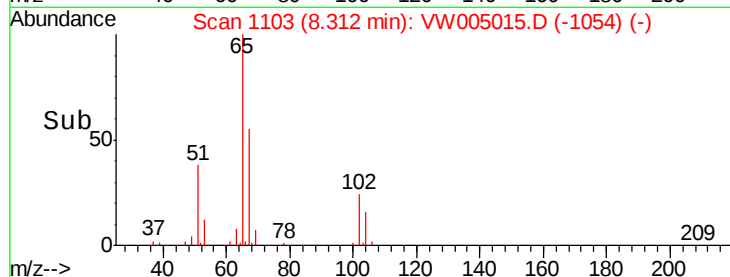
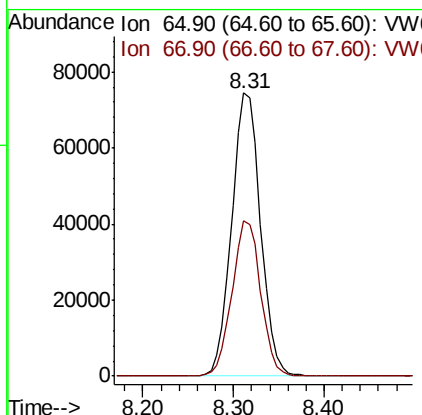
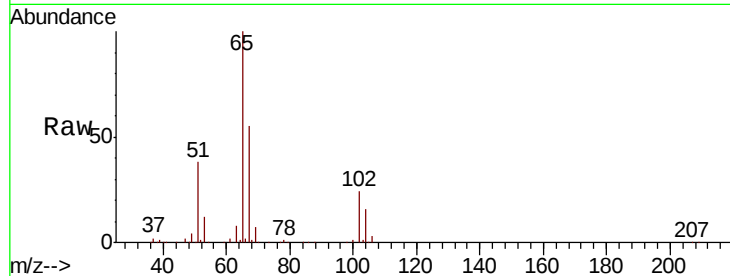




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.28 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. -0.00 min  
 Lab File: VW005015.D  
 Acq: 30 Aug 2018 13:52

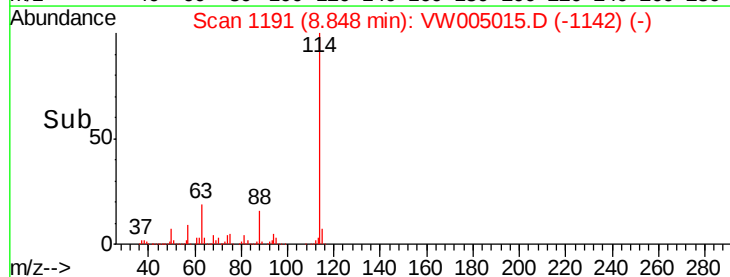
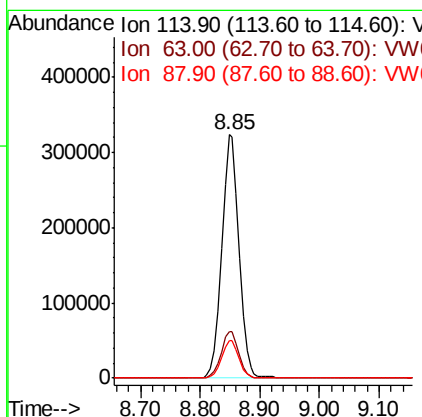
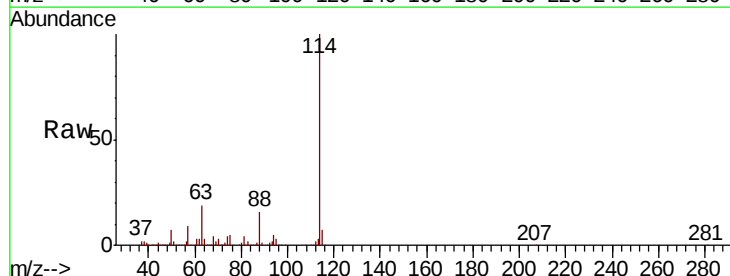
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OR-01-082718-ARE

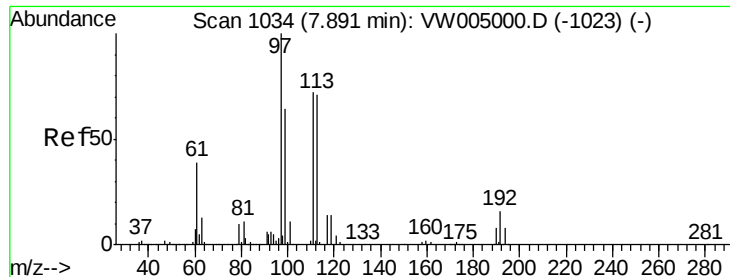
Tot Ion: 65 Resp: 164254  
 Ion Ratio Lower Upper  
 65 100  
 67 54.6 0.0 112.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW005015.D  
 Acq: 30 Aug 2018 13:52

Tgt Ion: 114 Resp: 650271  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 38.4  
 88 15.5 0.0 30.6

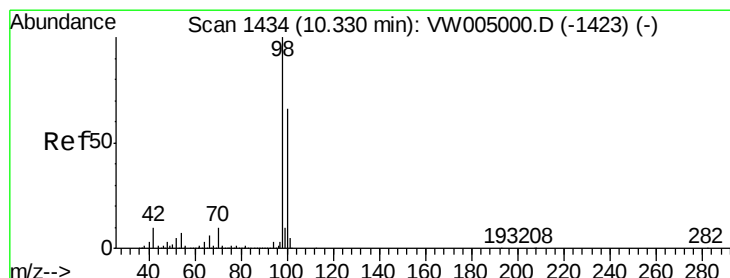
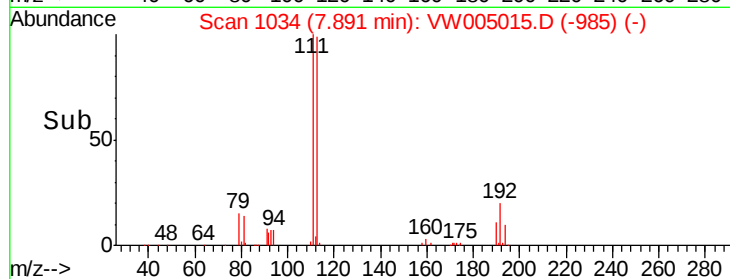
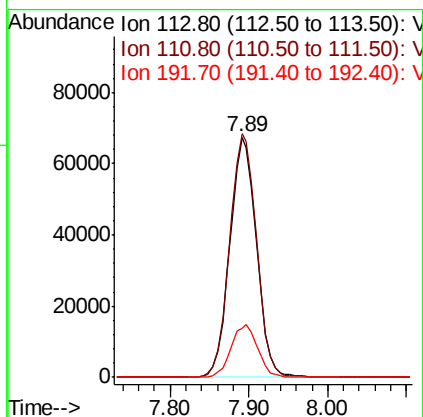
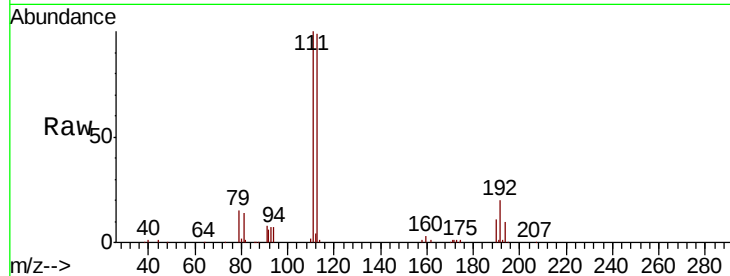




#35  
 Dibromofluoromethane  
 Concen: 49.12 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. -0.00 min  
 Lab File: VW005015.D  
 Acq: 30 Aug 2018 13:52

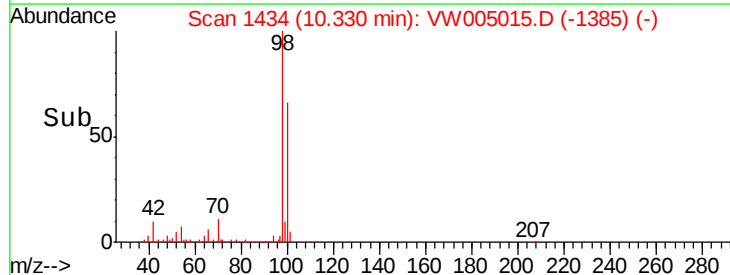
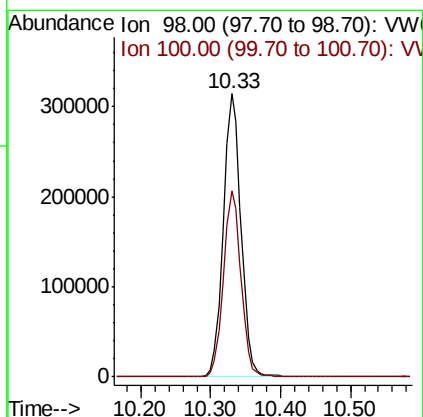
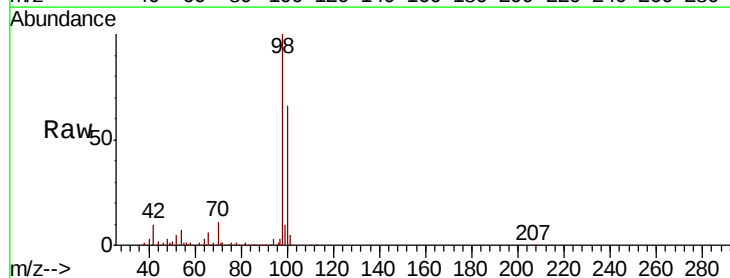
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
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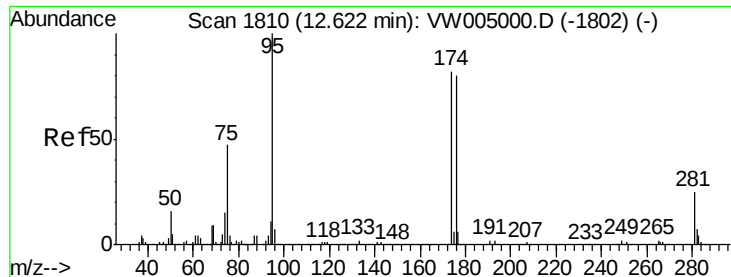
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.1 | 81.3  | 121.9 |
| 192     | 21.8  | 17.8  | 26.8  |



#50  
 Toluene-d8  
 Concen: 31.22 ug/l  
 RT: 10.33 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW005015.D  
 Acq: 30 Aug 2018 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 65.1  | 51.9  | 77.9  |





#62

4-Bromofluorobenzene

Concen: 31.81 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VW005015.D

Acq: 30 Aug 2018 13:52

Instrument :

MSVOA\_W

ClientSampleId :

OR-01-082718-ARE

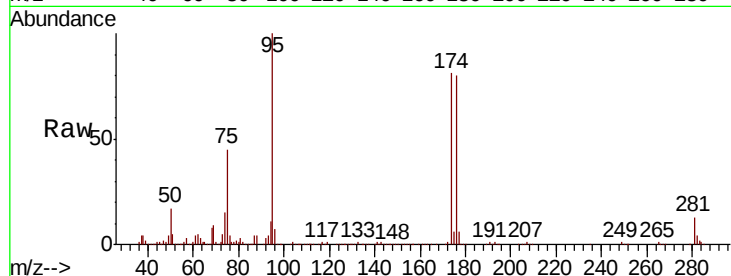
Tot Ion: 95 Resp: 205170

Ion Ratio Lower Upper

95 100

174 87.6 0.0 173.4

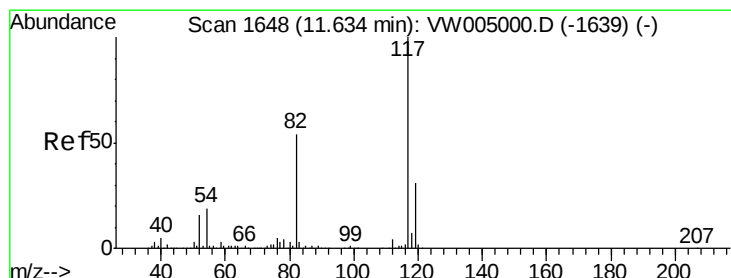
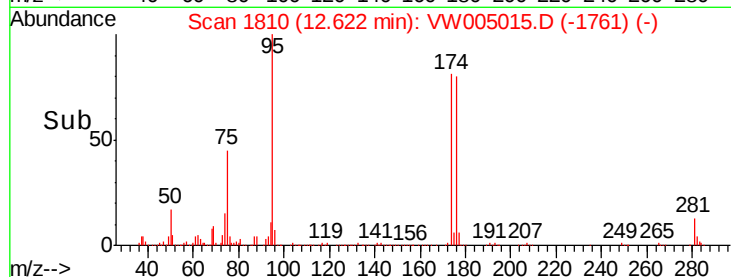
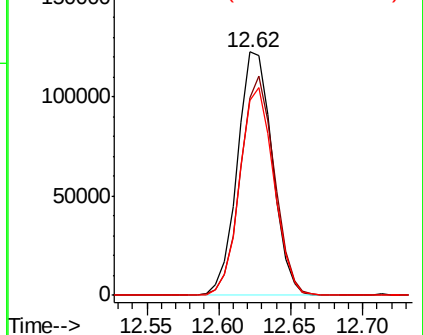
176 83.7 0.0 167.8



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: 50.00 ug/l

RT: 11.64 min Scan# 1649

Delta R.T. 0.01 min

Lab File: VW005015.D

Acq: 30 Aug 2018 13:52

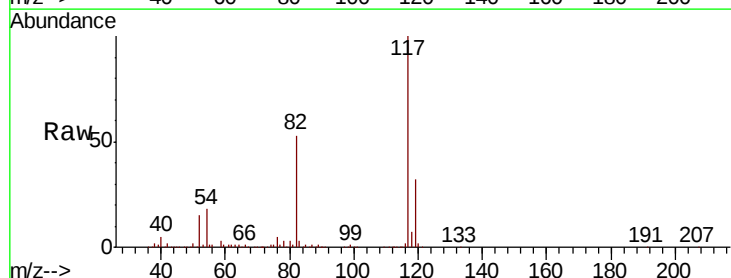
Tgt Ion: 117 Resp: 582951

Ion Ratio Lower Upper

117 100

82 53.2 43.3 64.9

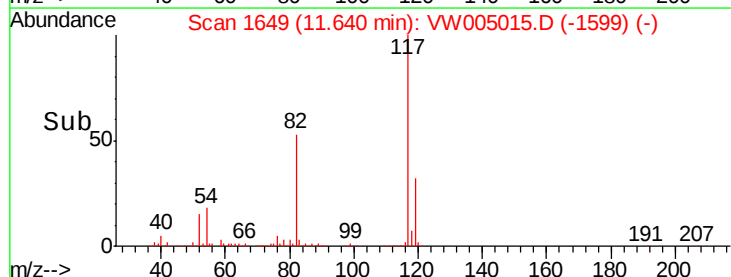
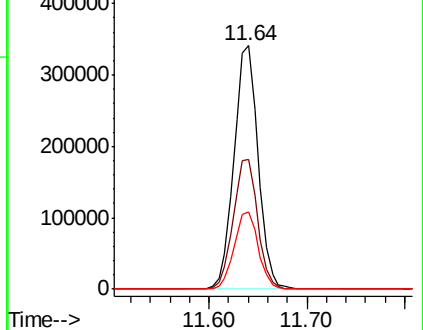
119 31.9 25.0 37.6

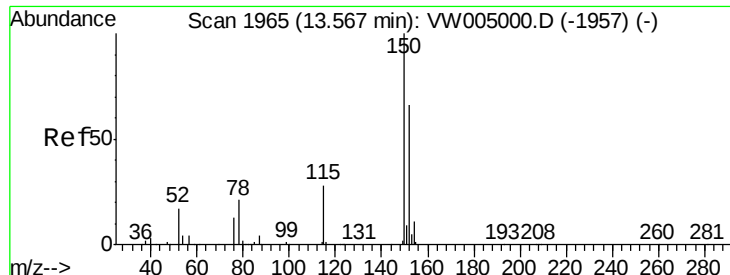


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW005015.D

Acq: 30 Aug 2018 13:52

Instrument :

MSVOA\_W

ClientSampleId :

OR-01-082718-ARE

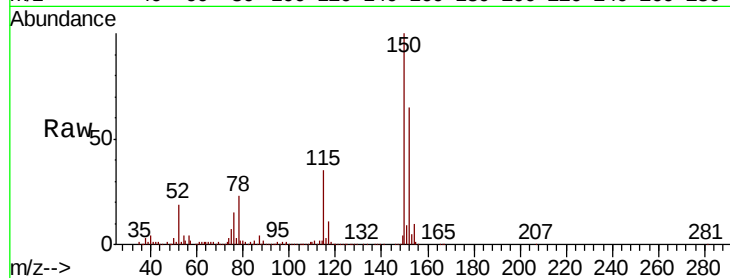
Tot Ion:152 Resp: 257781

Ion Ratio Lower Upper

152 100

115 55.3 28.0 83.9

150 155.2 0.0 347.2



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

