

Data File : VW002886.D  
Acq On : 25 May 2018 20:52  
Operator : JC/SY  
Sample : J3023-01RE  
Misc : 5.42G/5ML/MSVOA\_W/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 26 01:15:58 2018  
Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W051518S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 15 03:32:11 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 99950    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 149599   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 110709   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 31553    | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

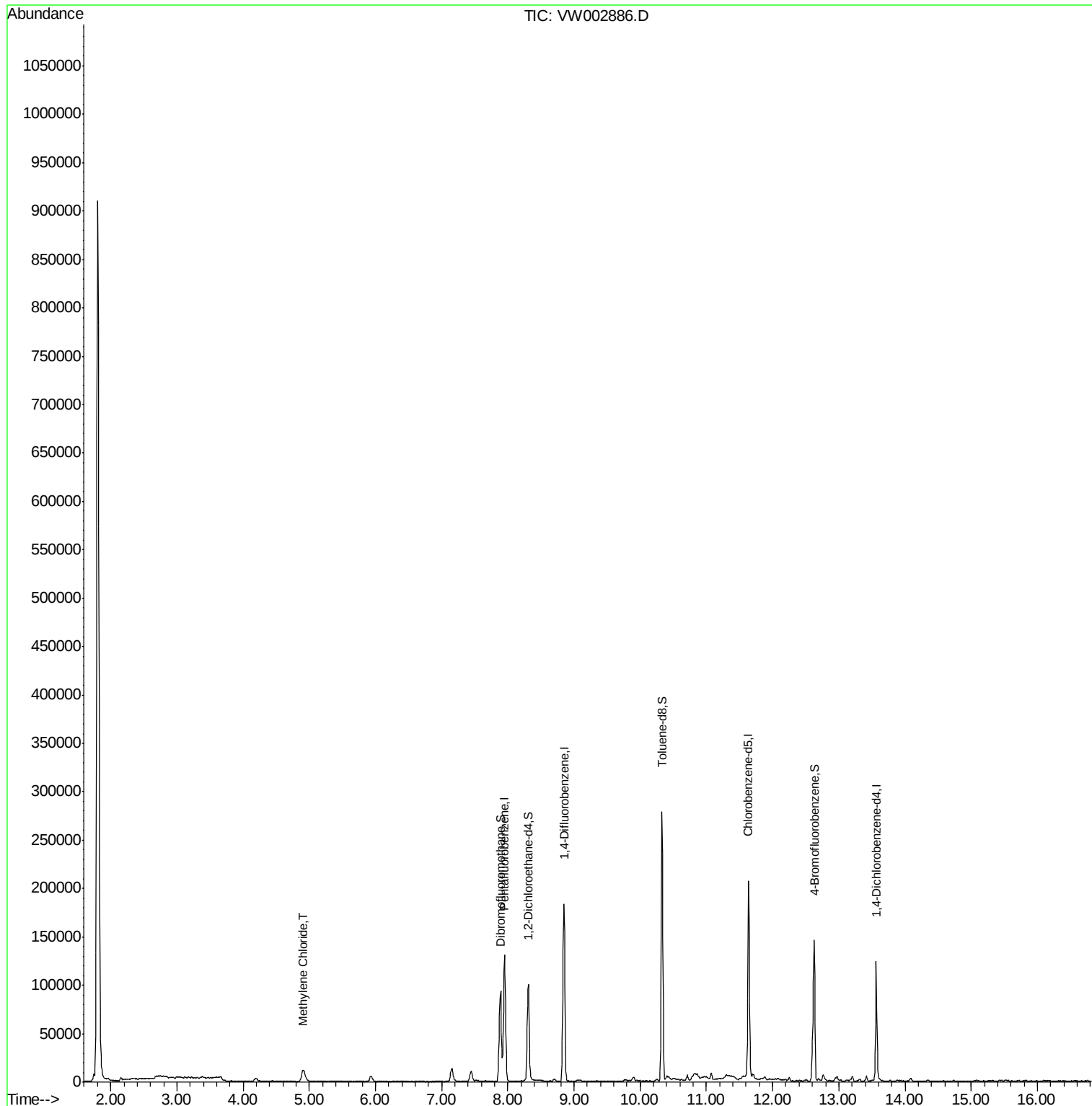
|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 76269    | 73.84 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 147.68% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 64938    | 68.42 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 136.84% |      |
| 50) Toluene-d8            | 10.33  | 98  | 180786   | 50.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.14% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 40991    | 31.05 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 62.10%  |      |

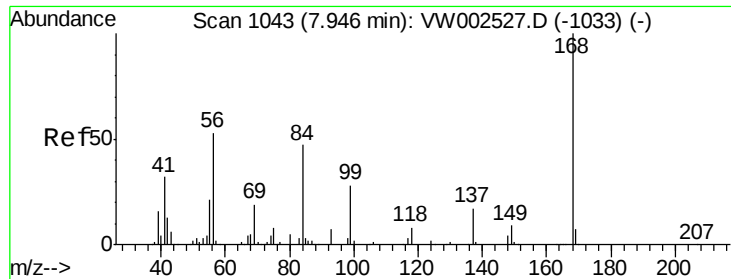
| Target Compounds       |      |    |       |      |      | Qvalue |
|------------------------|------|----|-------|------|------|--------|
| 20) Methylene Chloride | 4.91 | 84 | 10172 | 9.50 | ug/l | 95     |

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.01 min

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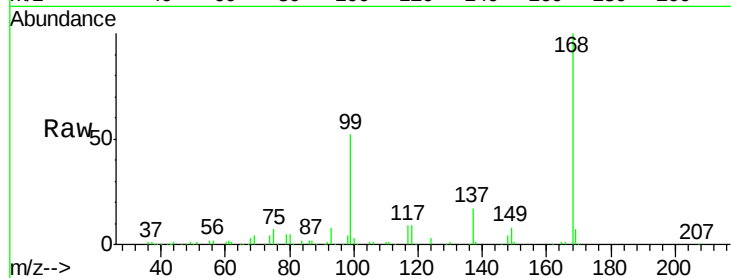
Acq: 25 May 2018 20:52

Tgt Ion: 168 Resp: 99950

Ion Ratio Lower Upper

168 100

99 51.8 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

50000

40000

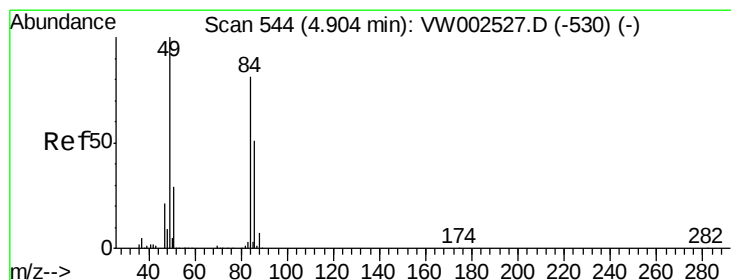
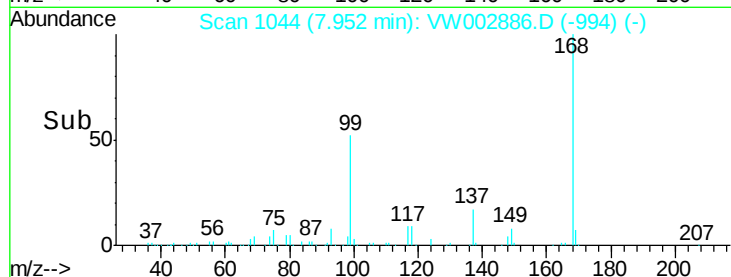
30000

20000

10000

0

Time-->



#20

Methylene Chloride

Concen: 9.50 ug/l

RT: 4.91 min Scan# 545

Delta R.T. 0.01 min

Lab File: VW002886.D

Acq: 25 May 2018 20:52

Tgt Ion: 84 Resp: 10172

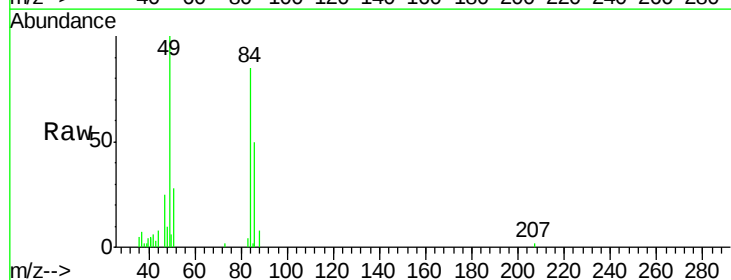
Ion Ratio Lower Upper

84 100

49 118.3 99.4 149.0

51 33.7 29.0 43.6

86 59.3 50.3 75.5



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

5000

4000

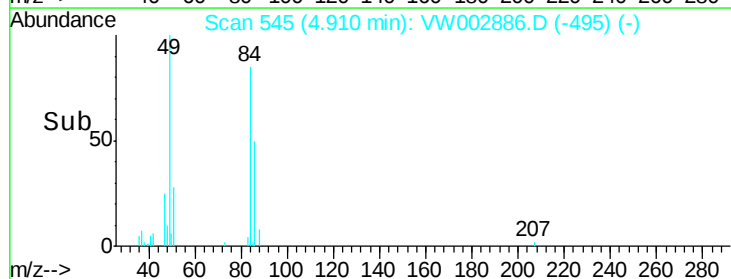
3000

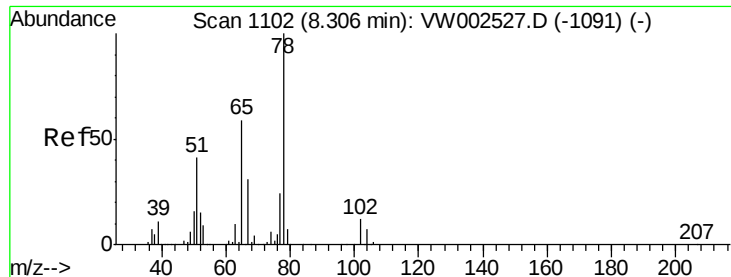
2000

1000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 73.84 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VW002886.D

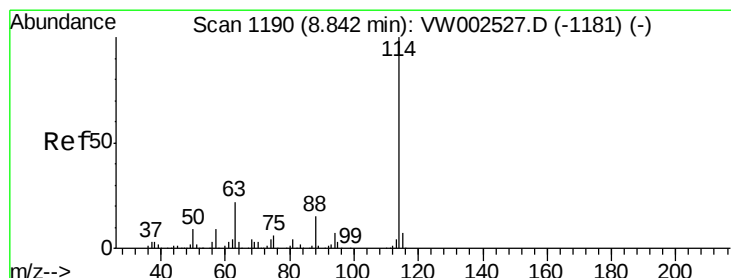
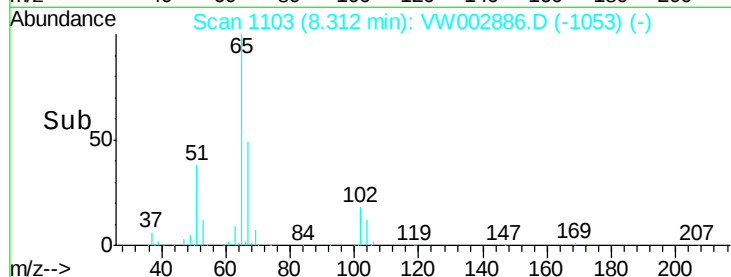
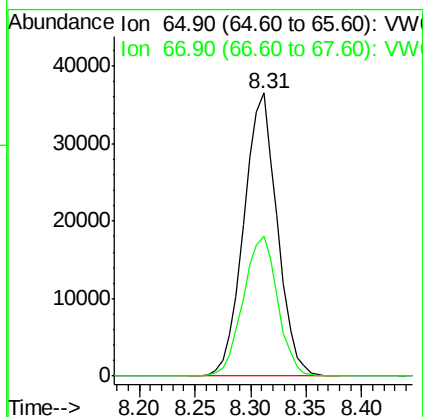
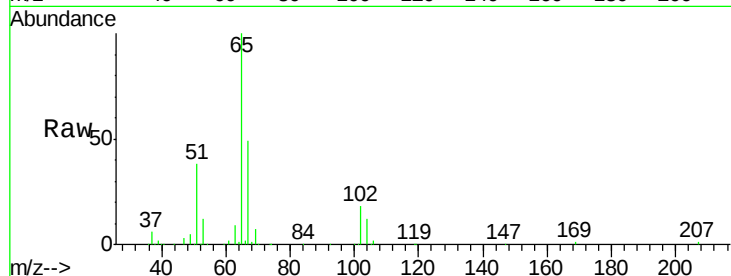
Acq: 25 May 2018 20:52

Tgt Ion: 65 Resp: 76269

Ion Ratio Lower Upper

65 100

67 50.8 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.01 min

Lab File: VW002886.D

Acq: 25 May 2018 20:52

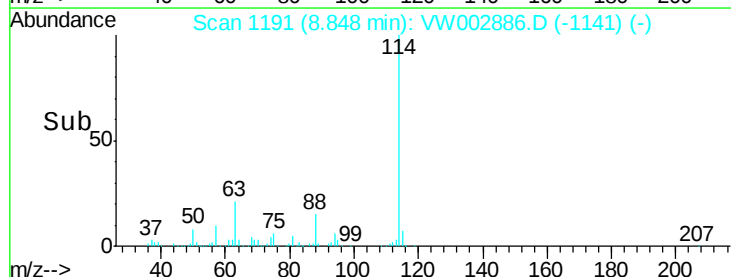
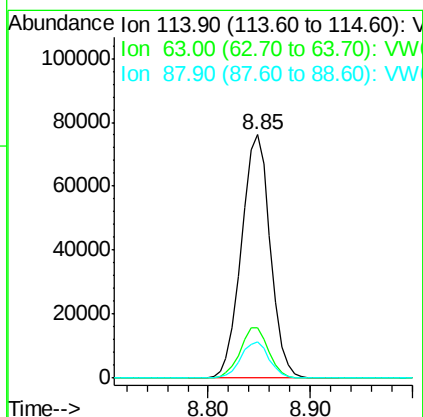
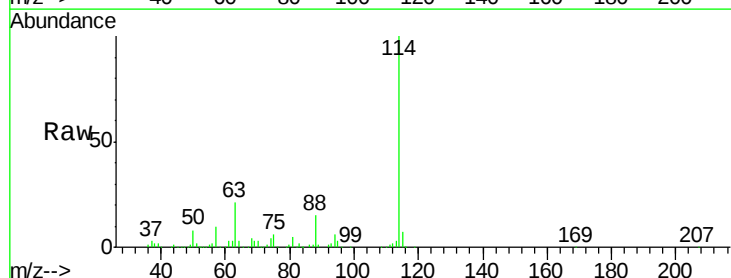
Tgt Ion: 114 Resp: 149599

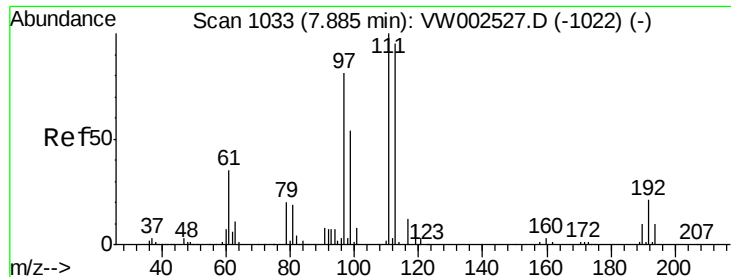
Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.2

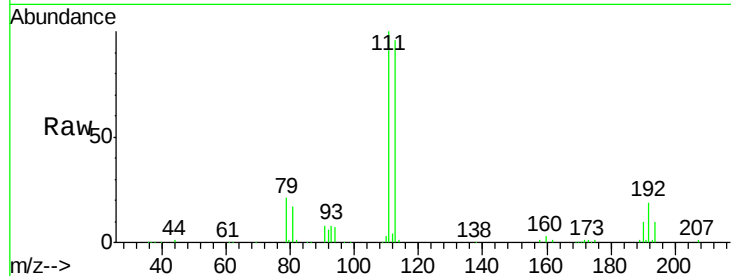
88 15.0 0.0 29.2



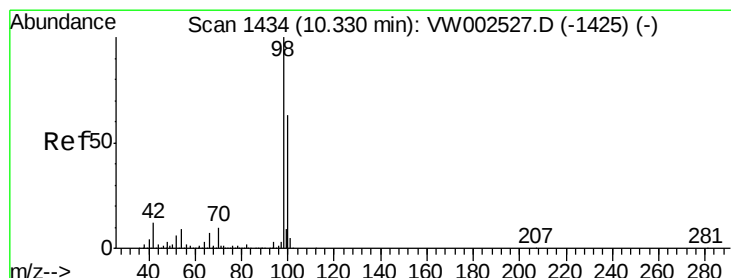
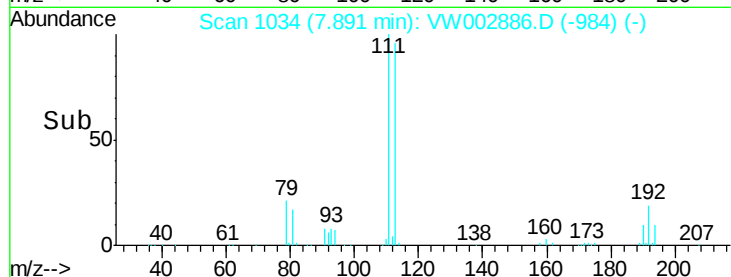
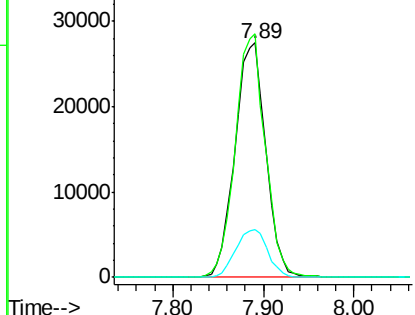


#35  
 Dibromofluoromethane  
 Concen: 68.42 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. 0.01 min  
 Lab File: VW002886.D  
 Acq: 25 May 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.4 | 81.8  | 122.8 |
| 192     | 21.0  | 17.5  | 26.3  |

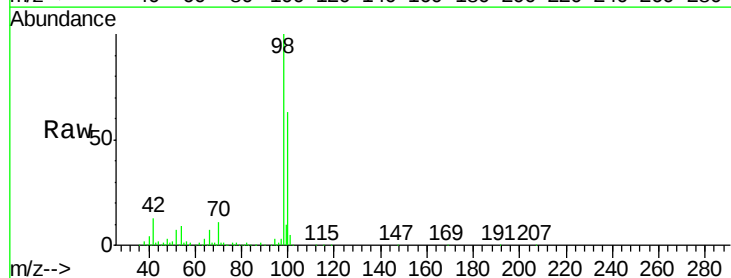


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

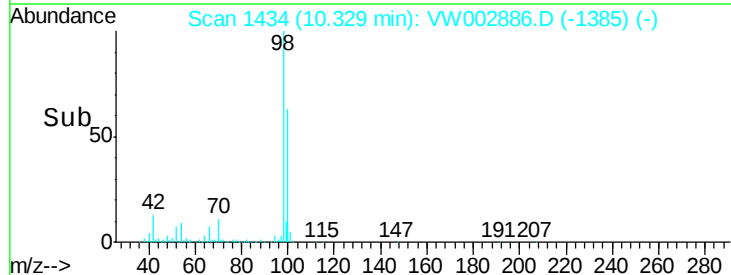
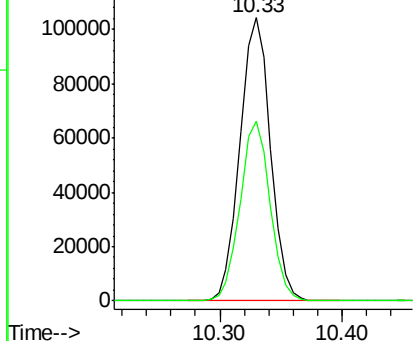


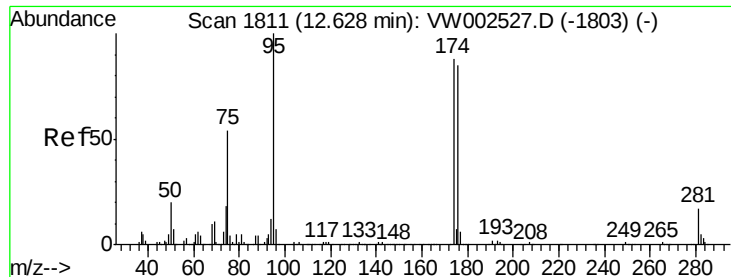
#50  
 Toluene-d8  
 Concen: 50.07 ug/l  
 RT: 10.33 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW002886.D  
 Acq: 25 May 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 62.4  | 51.0  | 76.4  |



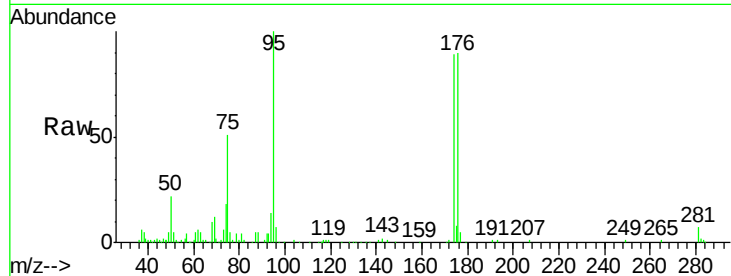
Abundance Ion 98.00 (97.70 to 98.70): VW  
 Ion 100.00 (99.70 to 100.70): VW



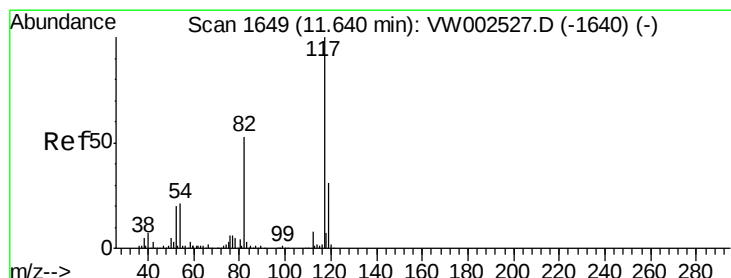
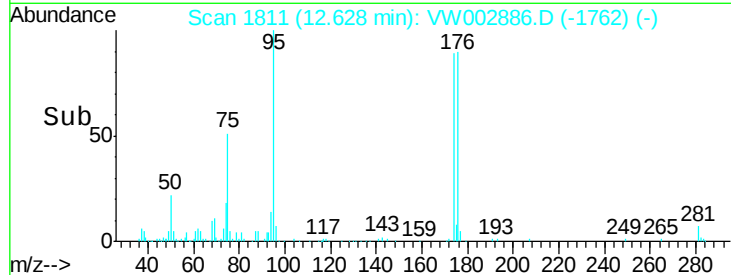
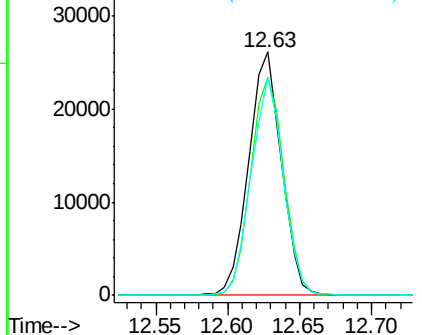


#62  
4-Bromofluorobenzene  
Concen: 31.05 ug/l  
RT: 12.63 min Scan# 1811  
Delta R.T. -0.00 min  
Lab File: VW002886.D  
Acq: 25 May 2018 20:52

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 95      | 100   | 40991 |       |       |
| 174     | 90.7  |       | 0.0   | 176.6 |
| 176     | 87.4  |       | 0.0   | 172.2 |

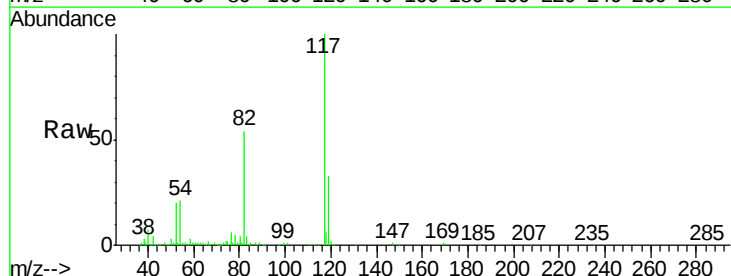


Abundance Ion 94.90 (94.60 to 95.60): VW  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. -0.00 min  
Lab File: VW002886.D  
Acq: 25 May 2018 20:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 110709 |       |       |
| 82      | 53.6  |        | 42.6  | 64.0  |
| 119     | 32.4  |        | 25.0  | 37.6  |



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

