

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW103118\  
 Data File : VW006490.D  
 Acq On : 30 Oct 2018 08:46  
 Operator : SY/AP  
 Sample : J5691-05  
 Misc : 4.99G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-9

Quant Time: Oct 30 10:44:24 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  | 222156   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 347092   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 331197   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 172943   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 122830   | 66.69 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 133.38% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 120969   | 58.98 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 117.96% |      |
| 50) Toluene-d8              | 10.33  | 98  | 441275   | 56.55 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 113.10% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 156542   | 53.42 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.84% |      |

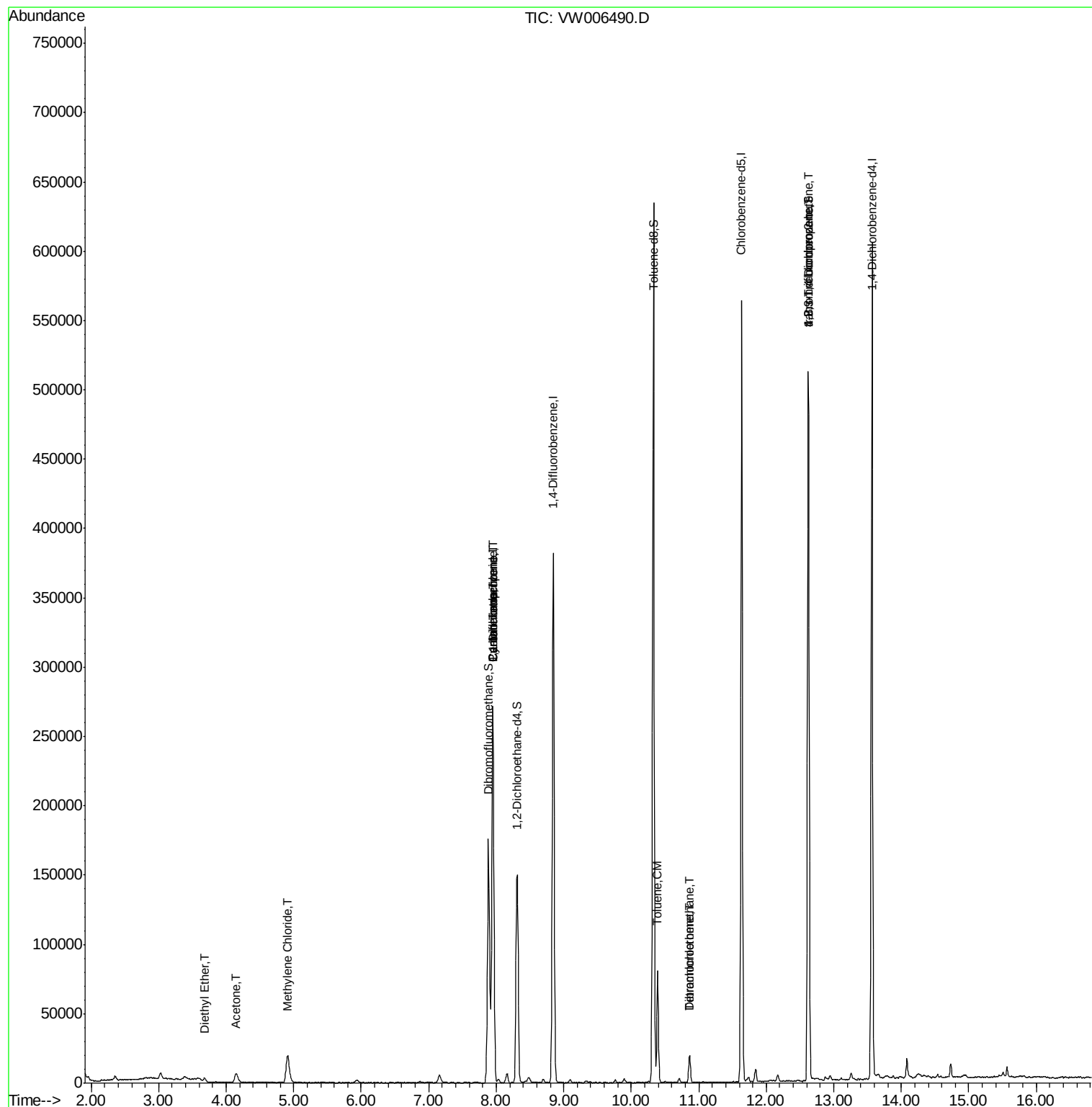
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 8) Diethyl Ether               | 3.67  | 74   | 1717     | 1.72   | ug/l   | 92     |
| 16) Acetone                    | 4.14  | 43   | 14320    | 28.32  | ug/l   | 99     |
| 20) Methylene Chloride         | 4.90  | 84   | 16808    | 7.23   | ug/l   | 90     |
| 31) Cyclohexane                | 7.95  | 56   | 5228     | 1.55   | ug/l # | 29     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 13870    | 4.34   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 19742    | 5.63   | ug/l # | 17     |
| 52) Toluene                    | 10.39 | 92   | 34804    | 5.92   | ug/l   | 98     |
| 60) Dibromochloromethane       | 10.87 | 129  | 3710     | 1.78   | ug/l # | 11     |
| 64) Tetrachloroethene          | 10.87 | 164  | 4799     | 1.87   | ug/l   | 98     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 77677    | 58.80  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 77677    | 140.57 | ug/l # | 10     |

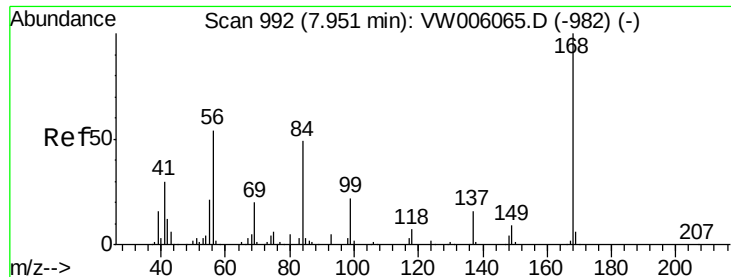
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006490.D

Acq: 30 Oct 2018 08:46

Instrument :

MSVOA\_W

ClientSampleId :

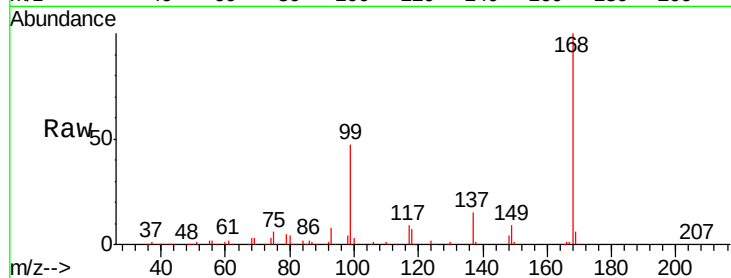
SB-9

Tgt Ion:168 Resp: 222156

Ion Ratio Lower Upper

168 100

99 47.0 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

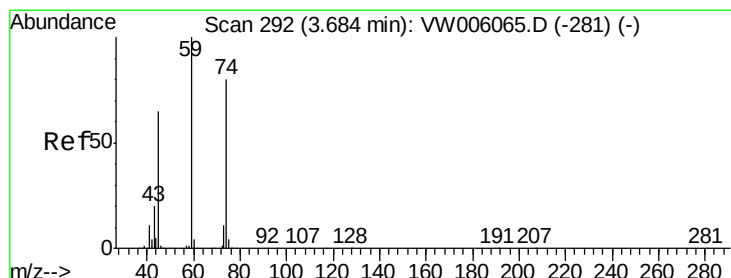
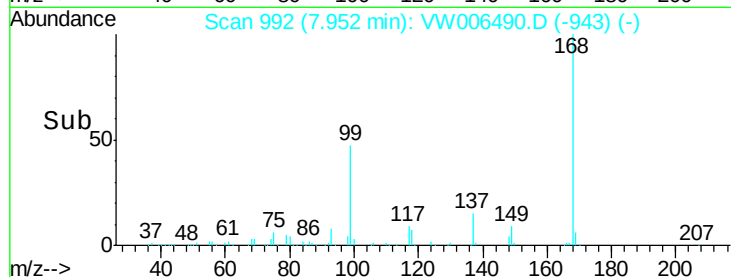
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.72 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW006490.D

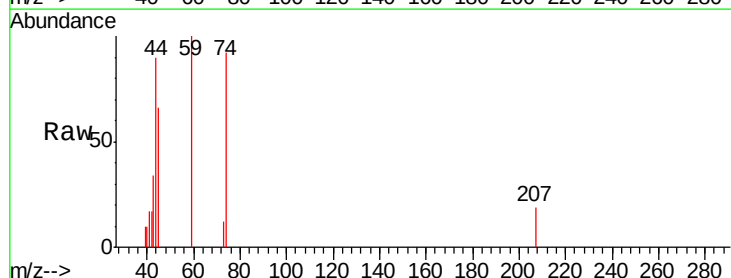
Acq: 30 Oct 2018 08:46

Tgt Ion: 74 Resp: 1717

Ion Ratio Lower Upper

74 100

45 92.7 42.8 128.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

800

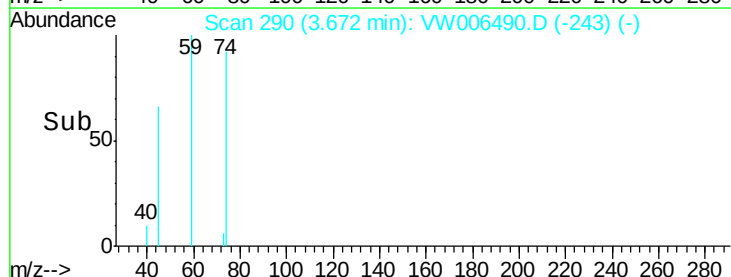
600

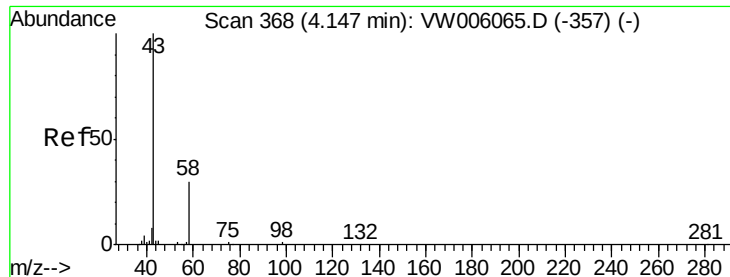
400

200

0

Time-->





#16

Acetone

Concen: 28.32 ug/l

RT: 4.14 min Scan# 367

Delta R.T. -0.01 min

Lab File: VW006490.D

Acq: 30 Oct 2018 08:46

Instrument :

MSVOA\_W

ClientSampleId :

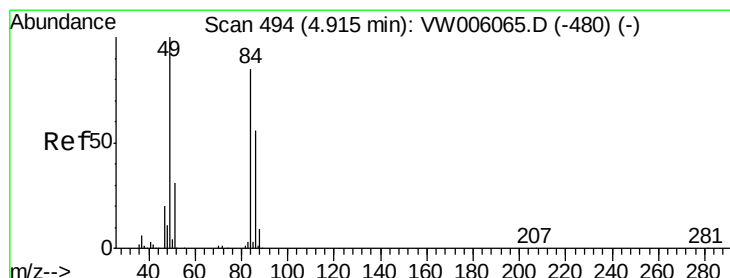
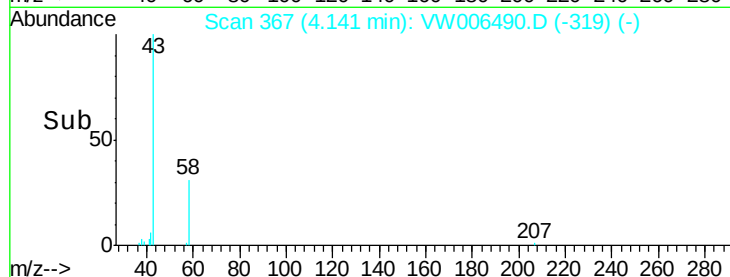
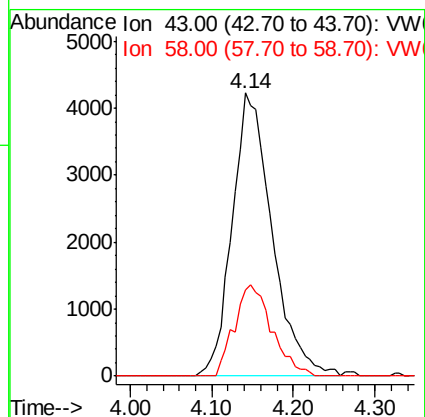
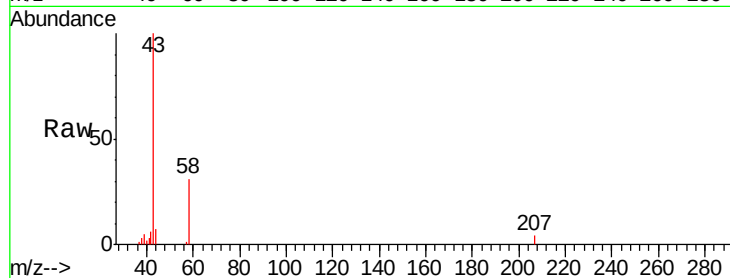
SB-9

Tgt Ion: 43 Resp: 14320

Ion Ratio Lower Upper

43 100

58 30.7 24.0 36.0



#20

Methylene Chloride

Concen: 7.23 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW006490.D

Acq: 30 Oct 2018 08:46

Tgt Ion: 84 Resp: 16808

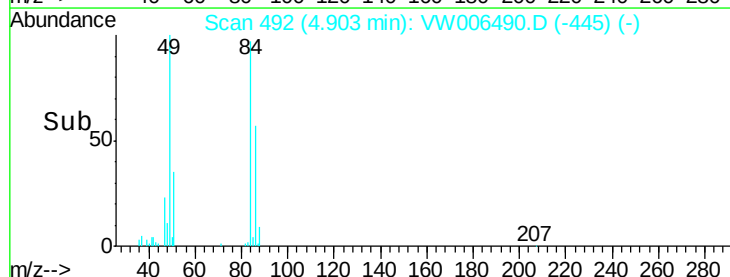
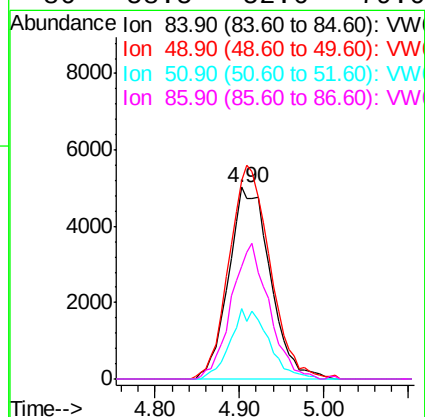
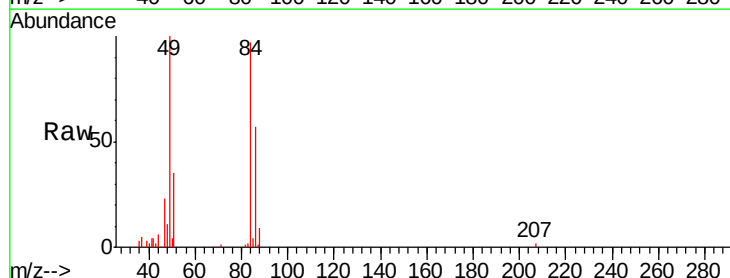
Ion Ratio Lower Upper

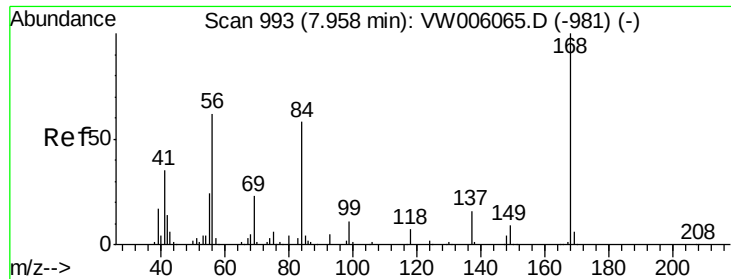
84 100

49 103.1 93.6 140.4

51 36.5 29.0 43.4

86 58.5 52.6 79.0

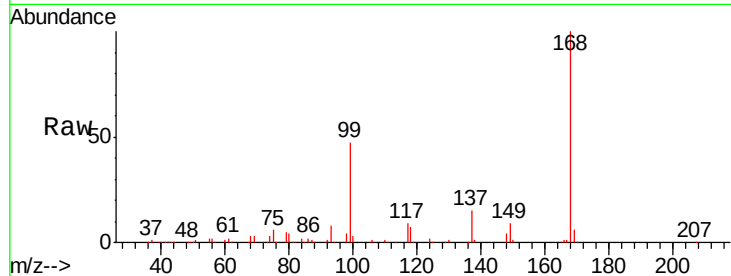




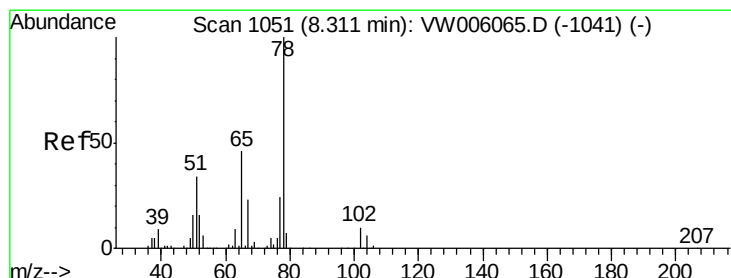
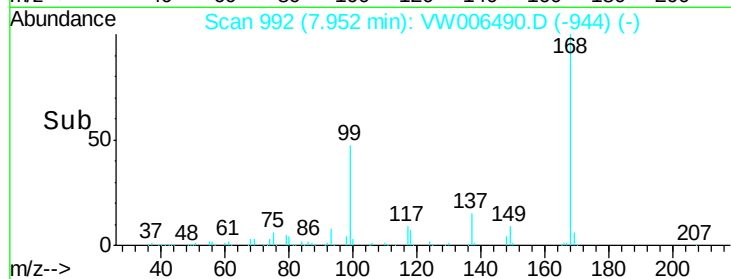
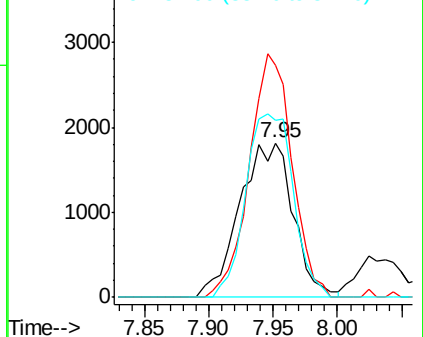
#31  
Cyclohexane  
Concen: 1.55 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW006490.D  
Acq: 30 Oct 2018 08:46

Instrument :  
MSVOA\_W  
ClientSampled :  
SB-9

Tgt Ion: 56 Resp: 5228  
Ion Ratio Lower Upper  
56 100  
69 150.6 29.4 44.0#  
84 114.2 74.0 111.0#

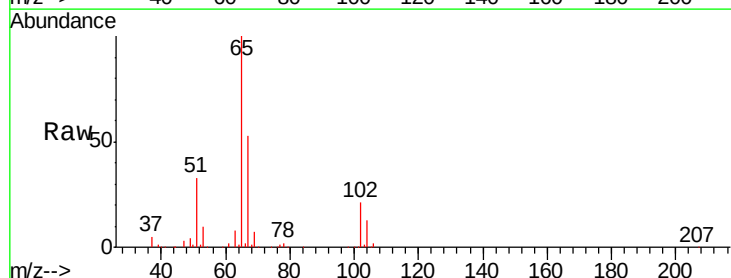


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

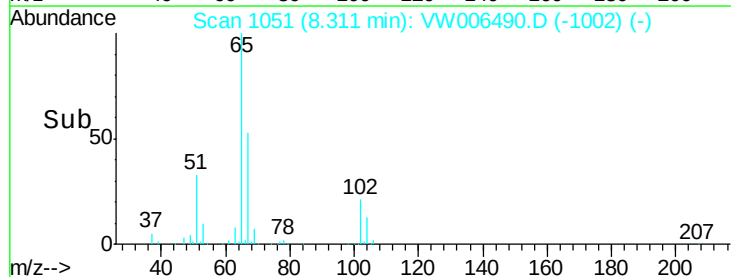
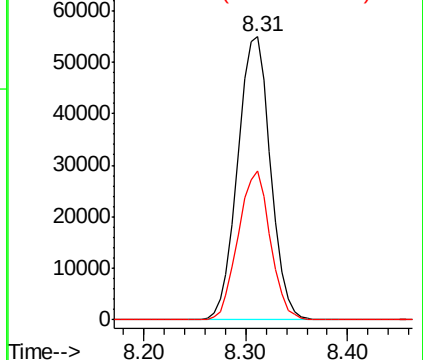


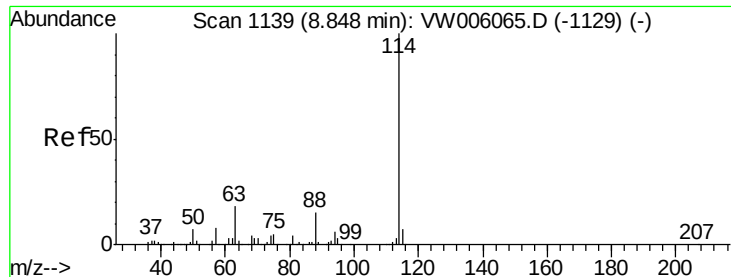
#33  
1,2-Dichloroethane-d4  
Concen: 66.69 ug/l  
RT: 8.31 min Scan# 1051  
Delta R.T. 0.00 min  
Lab File: VW006490.D  
Acq: 30 Oct 2018 08:46

Tgt Ion: 65 Resp: 122830  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 101.0



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW

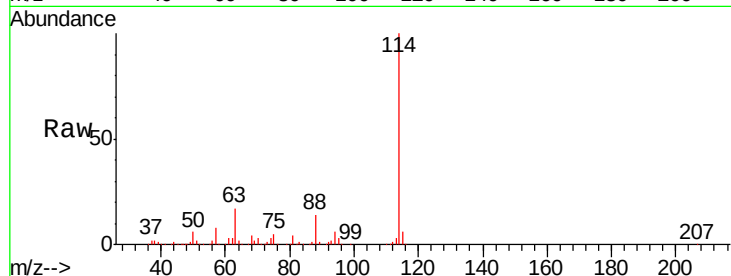




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW006490.D  
 Acq: 30 Oct 2018 08:46

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-9

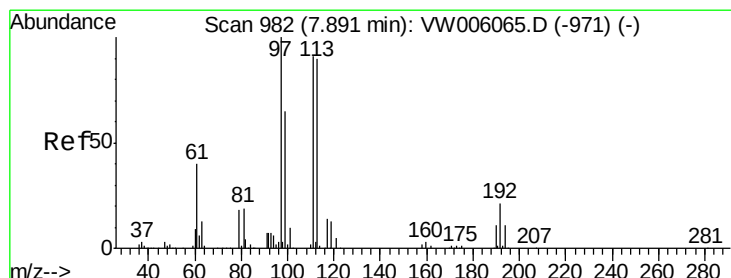
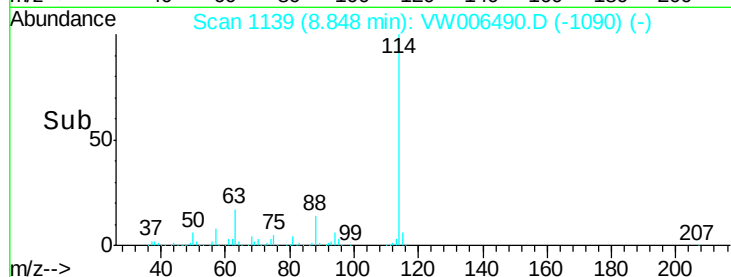
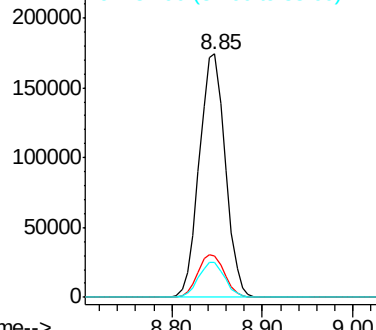
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 17.1  | 0.0   | 36.8  |
| 88      | 14.4  | 0.0   | 29.0  |



Abundance Ion 113.90 (113.60 to 114.60): V

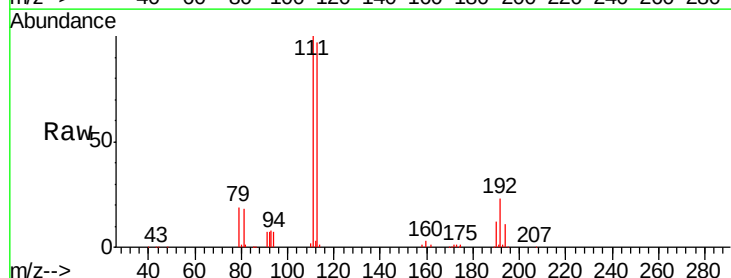
Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35  
 Dibromofluoromethane  
 Concen: 58.98 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.01 min  
 Lab File: VW006490.D  
 Acq: 30 Oct 2018 08:46

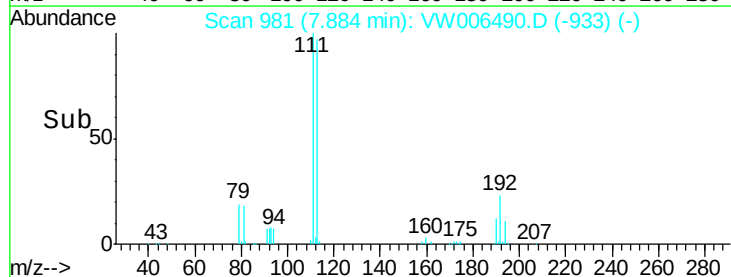
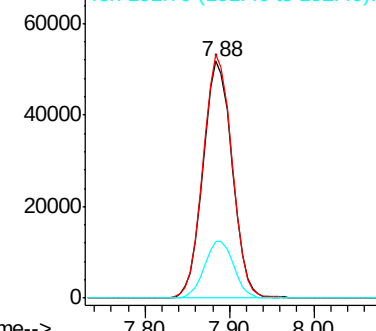
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 81.4  | 122.0 |
| 192     | 24.2  | 18.7  | 28.1  |

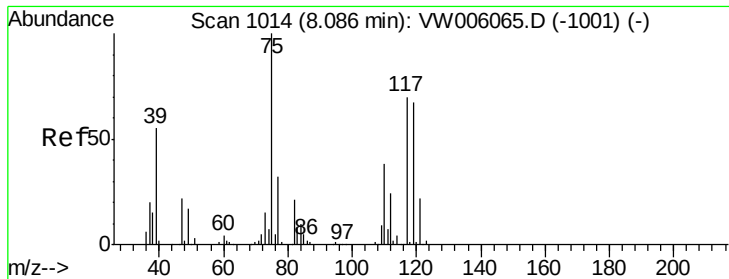


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

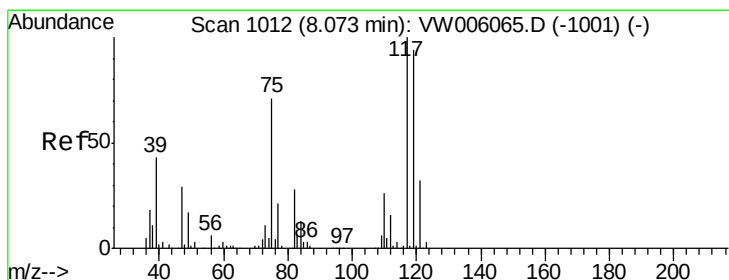
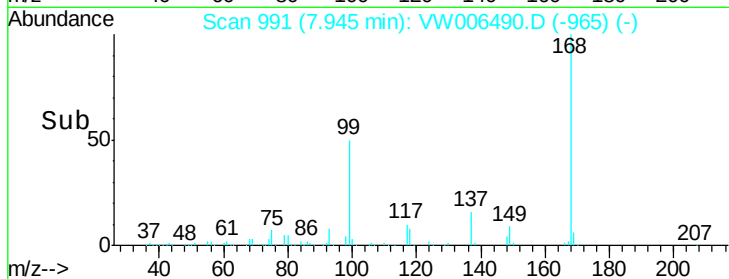
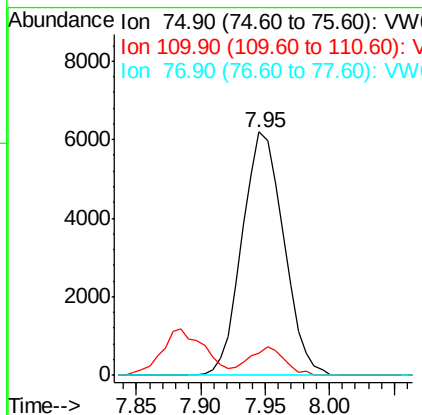
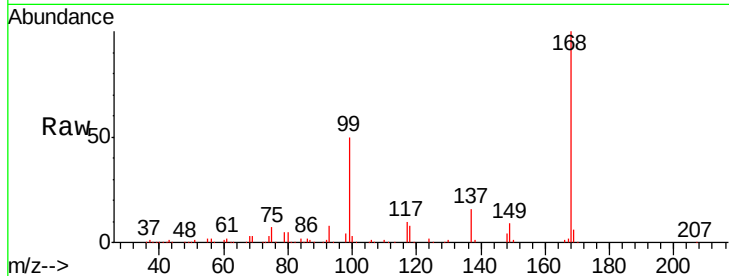




#36  
 1,1-Dichloropropene  
 Concen: 4.34 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.14 min  
 Lab File: VW006490.D  
 Acq: 30 Oct 2018 08:46

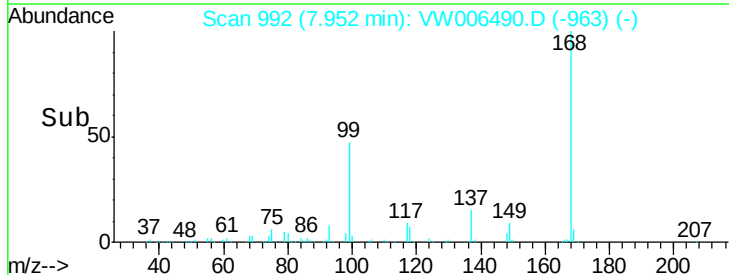
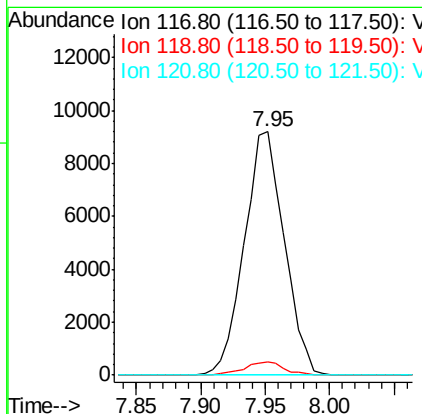
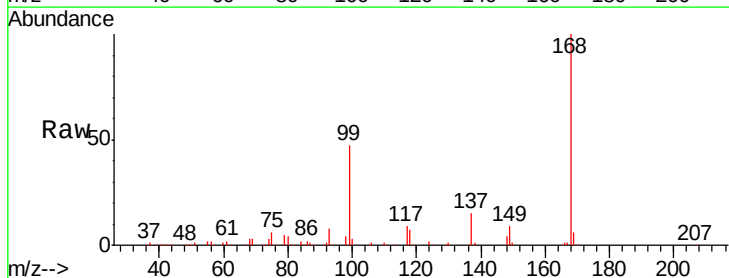
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 SB-9

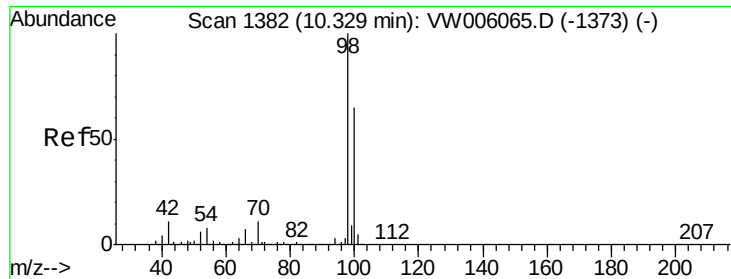
Tgt Ion: 75 Resp: 13870  
 Ion Ratio Lower Upper  
 75 100  
 110 10.1 19.1 57.1#  
 77 0.0 25.0 37.4#



#38  
 Carbon Tetrachloride  
 Concen: 5.63 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW006490.D  
 Acq: 30 Oct 2018 08:46

Tgt Ion: 117 Resp: 19742  
 Ion Ratio Lower Upper  
 117 100  
 119 5.2 75.2 112.8#  
 121 0.0 25.3 37.9#

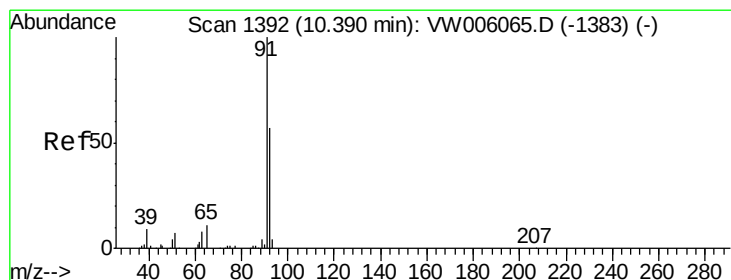
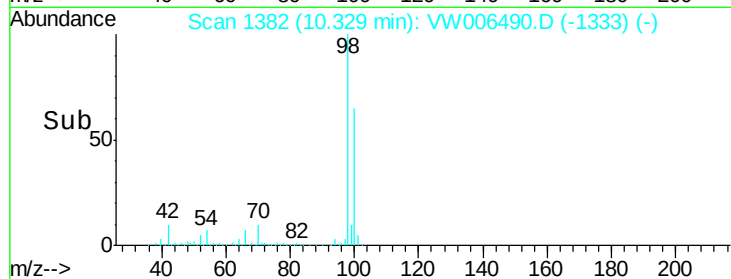
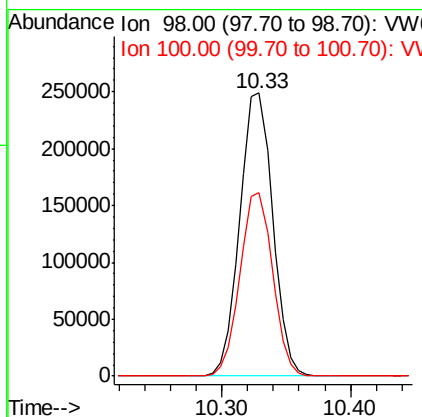
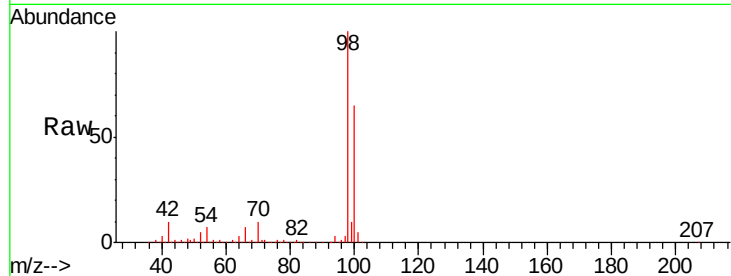




#50  
Toluene-d8  
Concen: 56.55 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. 0.00 min  
Lab File: VW006490.D  
Acq: 30 Oct 2018 08:46

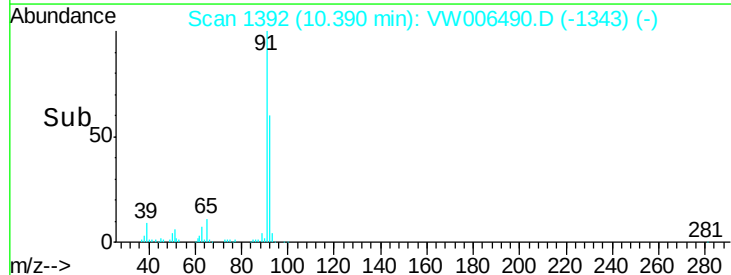
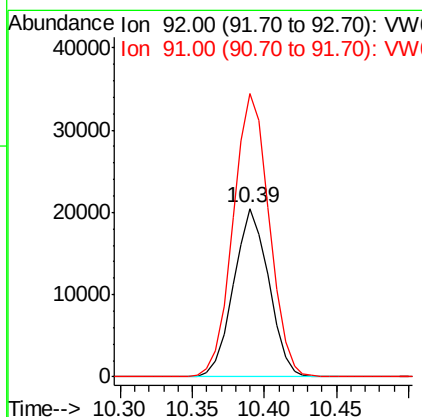
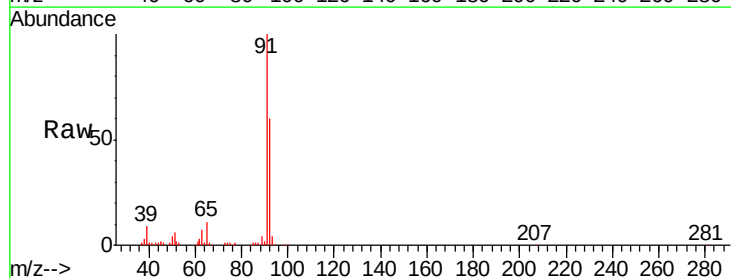
Instrument :  
MSVOA\_W  
ClientSampled :  
SB-9

Tgt Ion: 98 Resp: 441275  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.6 77.4

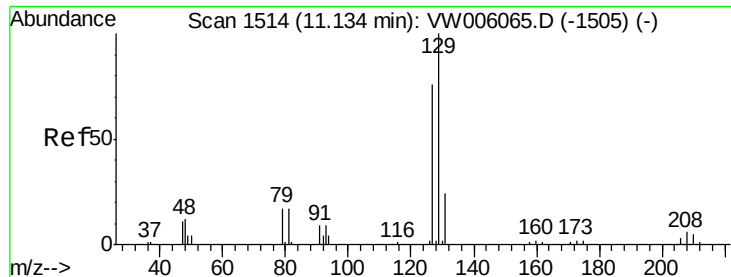


#52  
Toluene  
Concen: 5.92 ug/l  
RT: 10.39 min Scan# 1392  
Delta R.T. 0.00 min  
Lab File: VW006490.D  
Acq: 30 Oct 2018 08:46

Tgt Ion: 92 Resp: 34804  
Ion Ratio Lower Upper  
92 100  
91 172.7 140.0 210.0



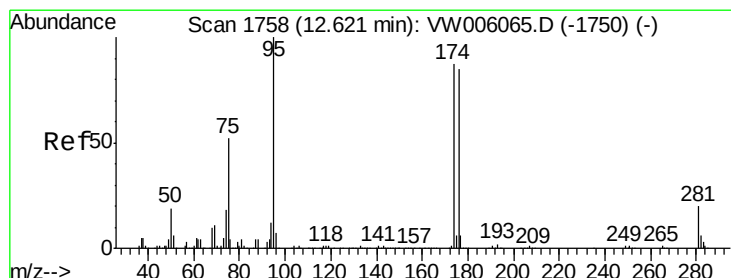
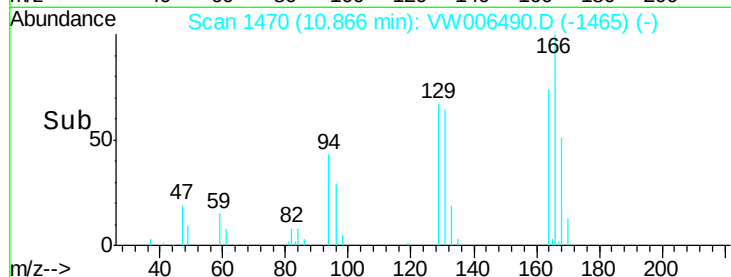
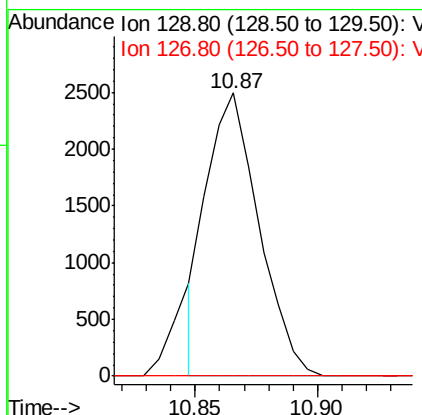
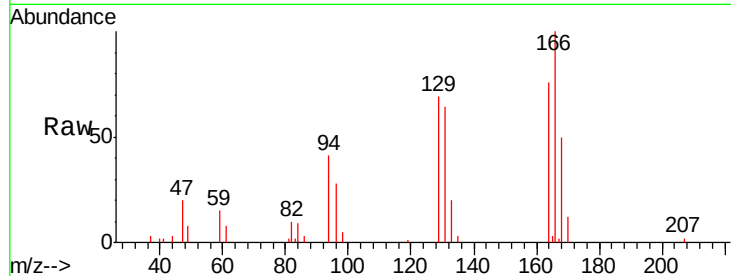




#60  
 Dibromochloromethane  
 Concen: 1.78 ug/l  
 RT: 10.87 min Scan# 1470  
 Delta R.T. -0.27 min  
 Lab File: VW006490.D  
 Acq: 30 Oct 2018 08:46

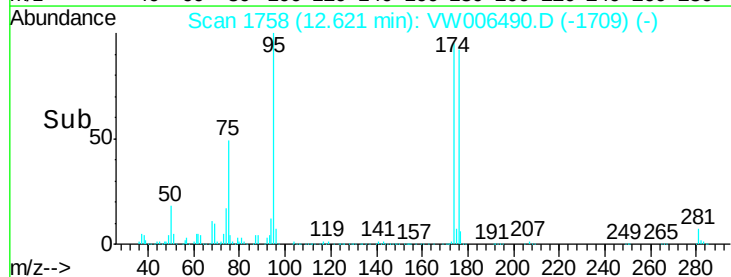
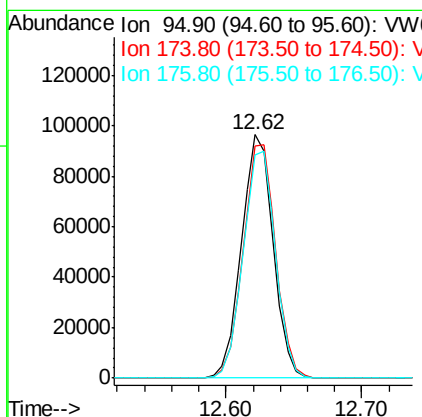
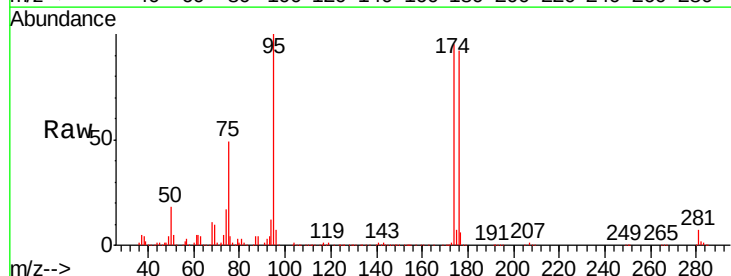
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 SB-9

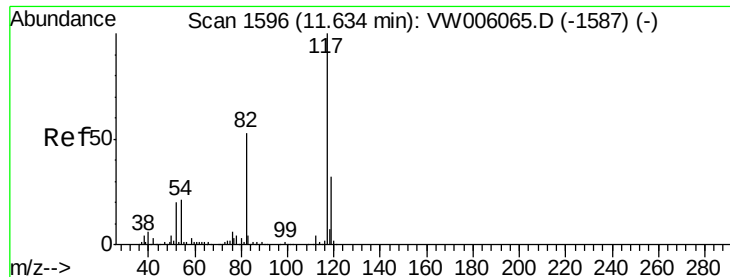
Tgt Ion: 129 Resp: 3710  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 38.6 115.7#



#62  
 4-Bromofluorobenzene  
 Concen: 53.42 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.00 min  
 Lab File: VW006490.D  
 Acq: 30 Oct 2018 08:46

Tgt Ion: 95 Resp: 156542  
 Ion Ratio Lower Upper  
 95 100  
 174 98.7 0.0 186.0  
 176 95.6 0.0 181.6

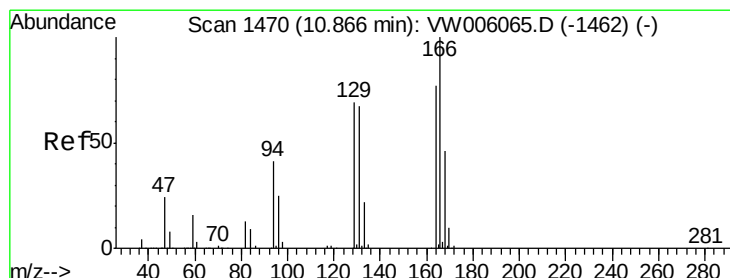
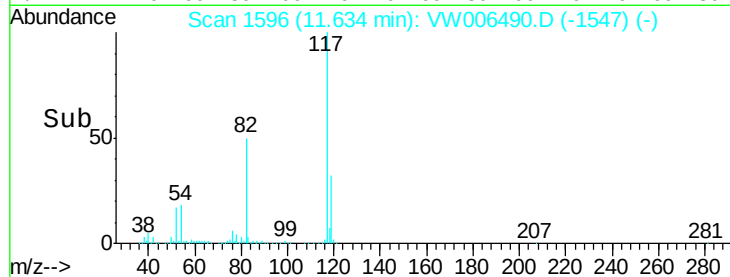
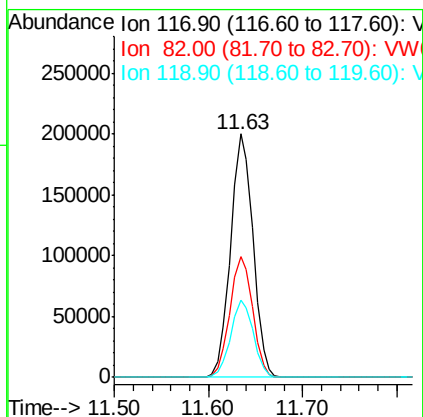
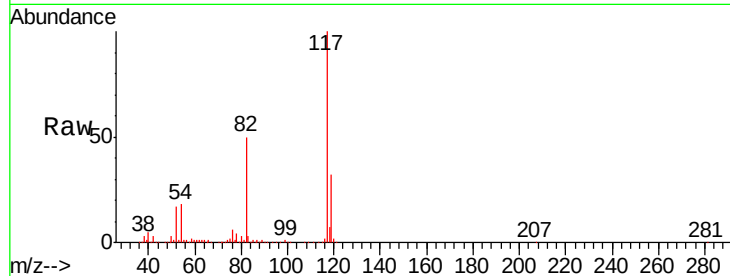




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW006490.D  
Acq: 30 Oct 2018 08:46

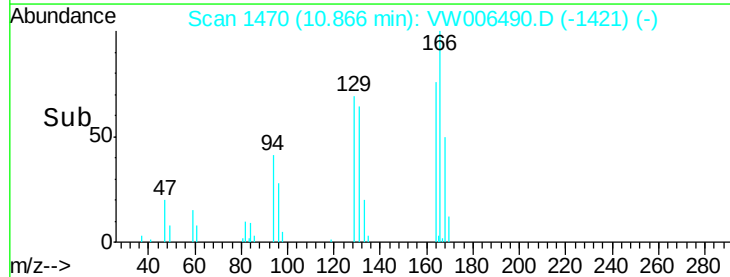
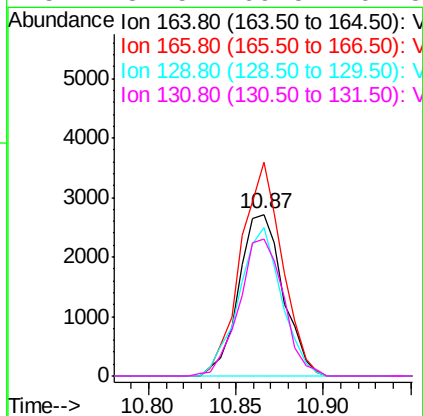
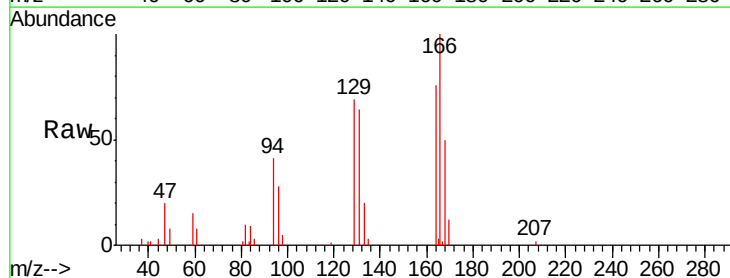
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-9

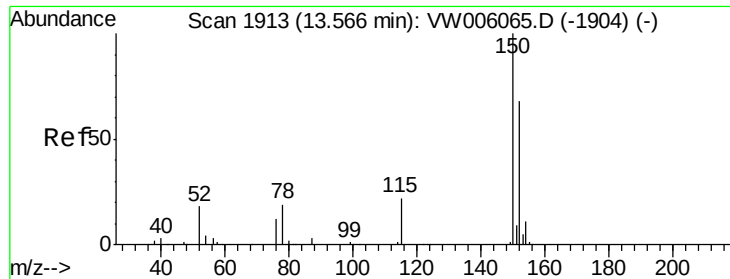
Tgt Ion:117 Resp: 331197  
Ion Ratio Lower Upper  
117 100  
82 49.8 42.1 63.1  
119 31.7 25.8 38.6



#64  
Tetrachloroethene  
Concen: 1.87 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VW006490.D  
Acq: 30 Oct 2018 08:46

Tgt Ion:164 Resp: 4799  
Ion Ratio Lower Upper  
164 100  
166 131.9 103.4 155.0  
129 91.6 71.8 107.8  
131 84.5 69.5 104.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW006490.D

Acq: 30 Oct 2018 08:46

Instrument :

MSVOA\_W

ClientSampleId :

SB-9

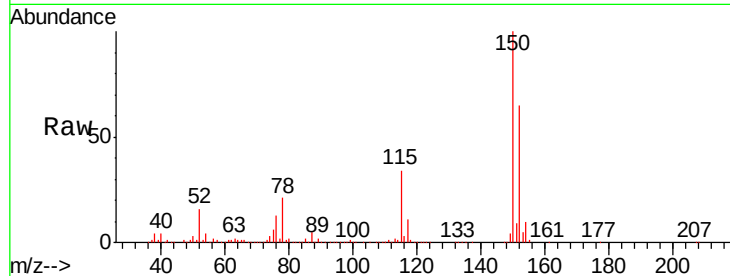
Tgt Ion:152 Resp: 172943

Ion Ratio Lower Upper

152 100

115 53.3 27.8 83.3

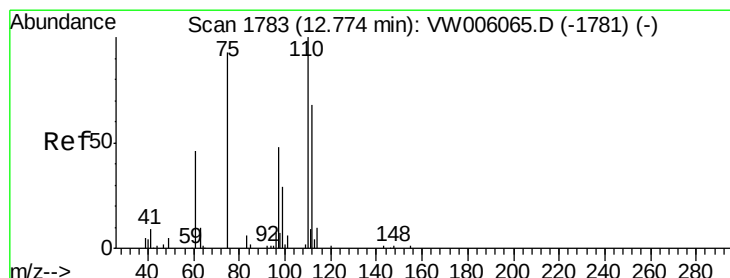
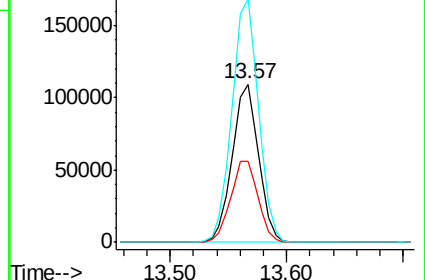
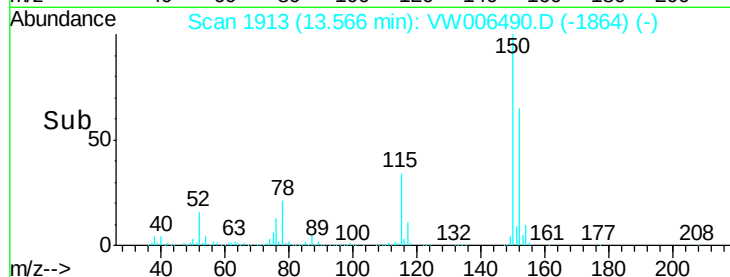
150 155.0 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 58.80 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006490.D

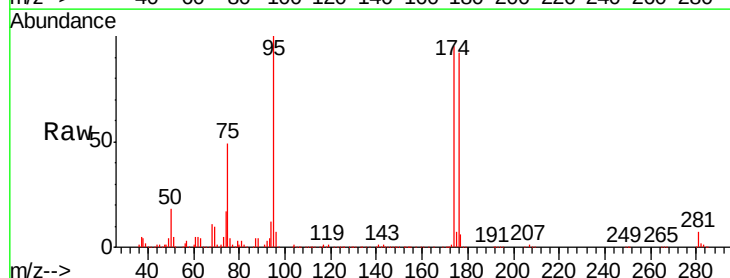
Acq: 30 Oct 2018 08:46

Tgt Ion: 75 Resp: 77677

Ion Ratio Lower Upper

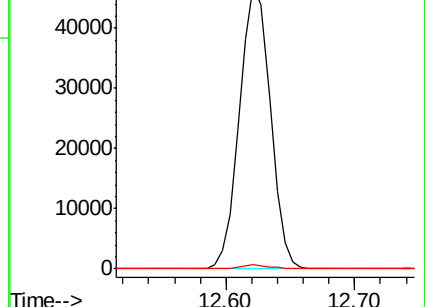
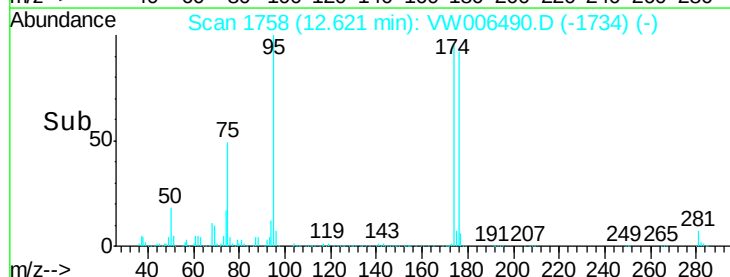
75 100

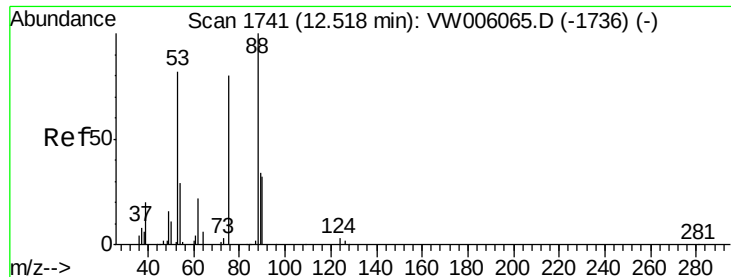
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 140.57 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.10 min  
 Lab File: VW006490.D  
 Acq: 30 Oct 2018 08:46

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-9

Tgt Ion: 75 Resp: 77677  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 79.8 119.6#  
 89 0.0 37.5 56.3#

