

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072818\  
 Data File : VW004265.D  
 Acq On : 27 Jul 2018 10:38  
 Operator : SY/AP  
 Sample : J4123-01RE  
 Misc : 8.89G/5ML/MSVOA W/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jul 27 11:08:49 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  | 253775   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 448070   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 382703   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 162134   | 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   | 164833   | 58.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.22% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 142495   | 49.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.12%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 484695   | 43.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.90%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 157355   | 39.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 78.24%  |          |

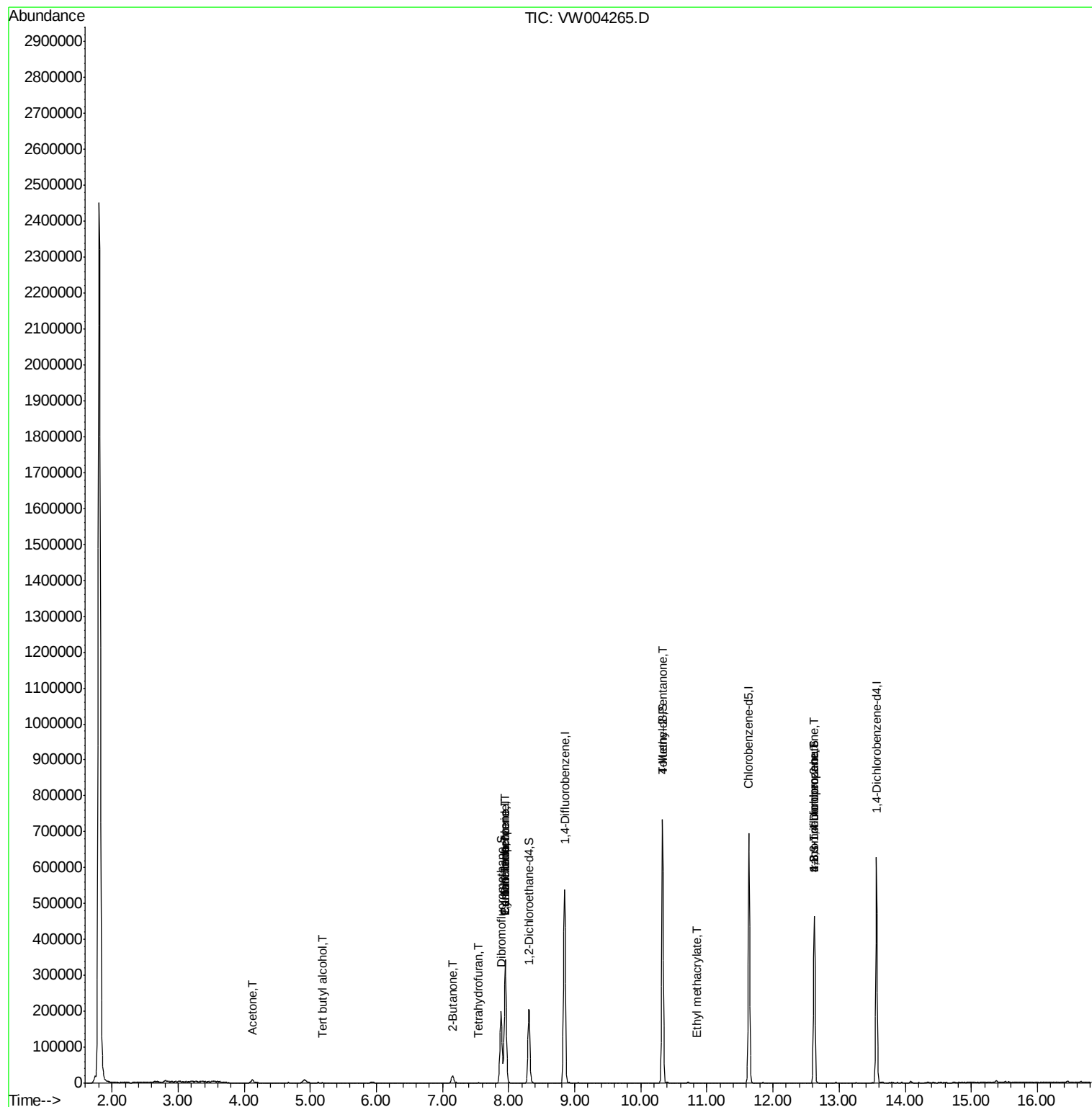
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.18  | 59   | 901      | 4.60      | ug/l # | 72     |
| 16) Acetone                    | 4.12  | 43   | 13756    | 20.18     | ug/l   | 96     |
| 20) Methylene Chloride         | 4.90  | 84   | 7602     | Below Cal |        | 90     |
| 25) 2-Butanone                 | 7.15  | 43   | 1173     | 1.28      | ug/l # | 77     |
| 29) Tetrahydrofuran            | 7.55  | 42   | 648      | 1.13      | ug/l # | 59     |
| 31) Cyclohexane                | 7.95  | 56   | 5478     | 1.16      | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 20811    | 4.51      | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 25531    | 5.93      | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 10.32 | 43   | 2325     | 1.05      | ug/l # | 1      |
| 56) Ethyl methacrylate         | 10.84 | 69   | 20       | 2.95      | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 79404    | 49.33     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 79404    | 109.12    | ug/l # | 11     |

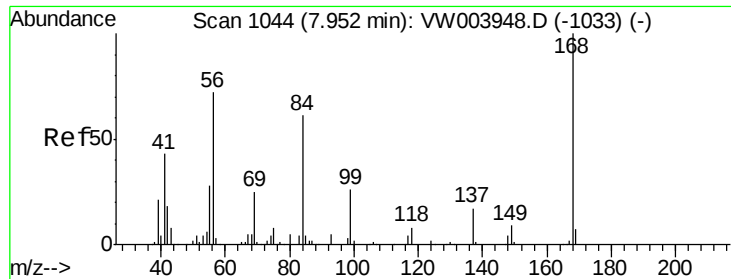
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW004265.D

Acq: 27 Jul 2018 10:38

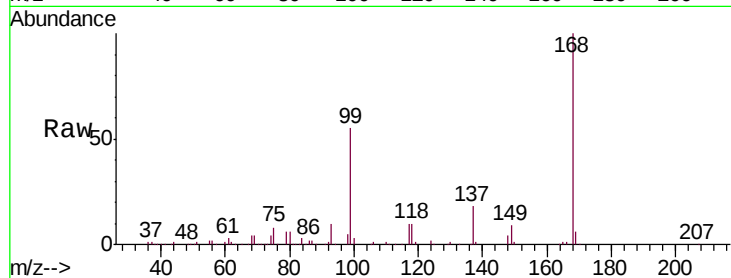
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 253775

Ion Ratio Lower Upper

168 100

99 54.9 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

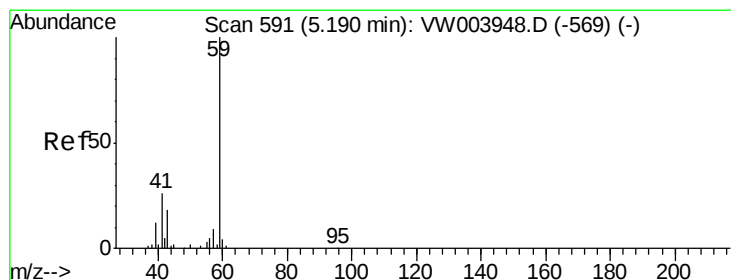
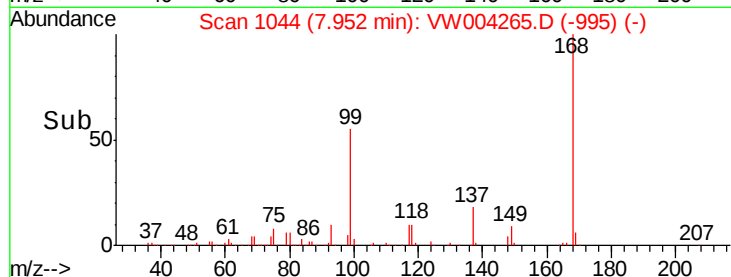
7.95

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.60 ug/l

RT: 5.18 min Scan# 590

Delta R.T. -0.01 min

Lab File: VW004265.D

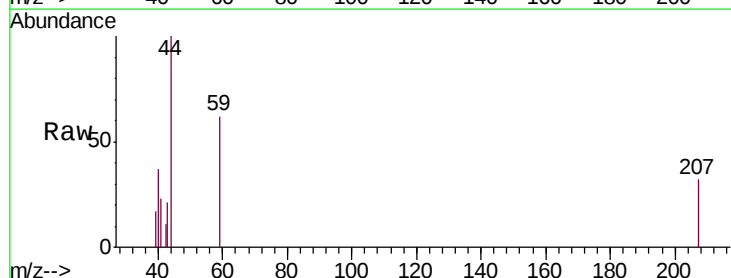
Acq: 27 Jul 2018 10:38

Tgt Ion: 59 Resp: 901

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.18

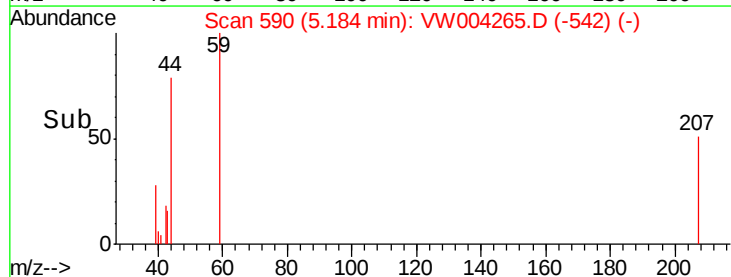
300

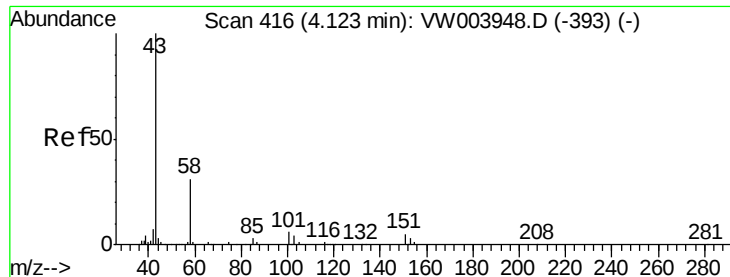
200

100

0

Time-->





#16

Acetone

Concen: 20.18 ug/l

RT: 4.12 min Scan# 416

Delta R.T. 0.00 min

Lab File: VW004265.D

Acq: 27 Jul 2018 10:38

Instrument :

MSVOA\_W

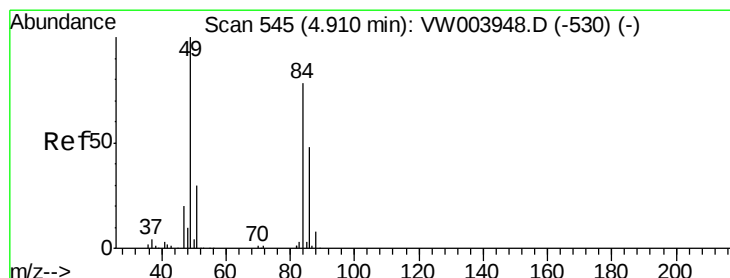
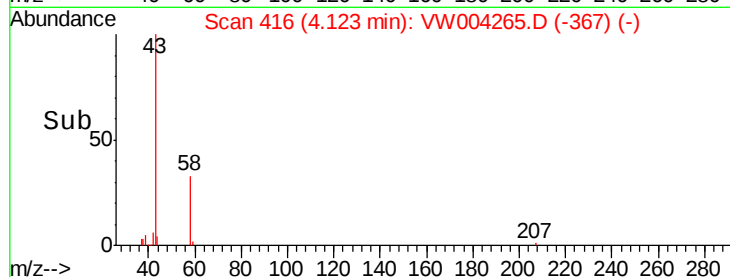
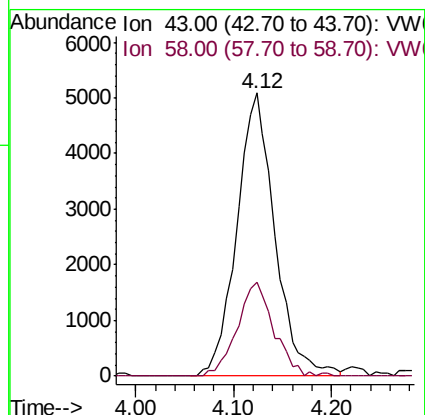
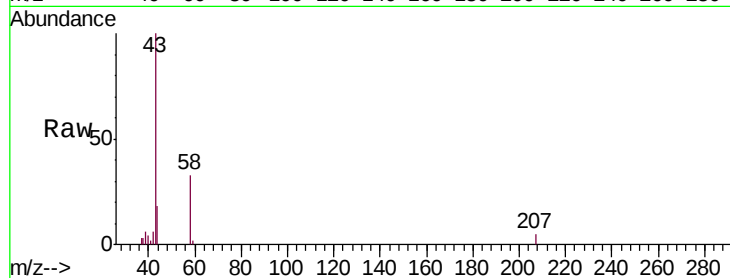
ClientSampleId :

Tot Ion: 43 Resp: 13756

Ion Ratio Lower Upper

43 100

58 33.0 24.5 36.7



#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 544

Delta R.T. -0.01 min

Lab File: VW004265.D

Acq: 27 Jul 2018 10:38

Tgt Ion: 84 Resp: 7602

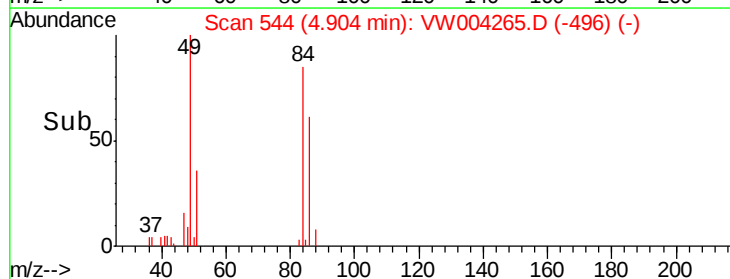
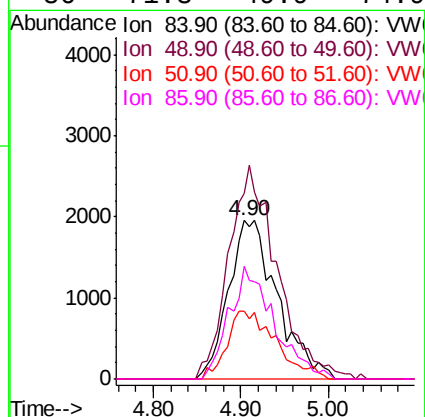
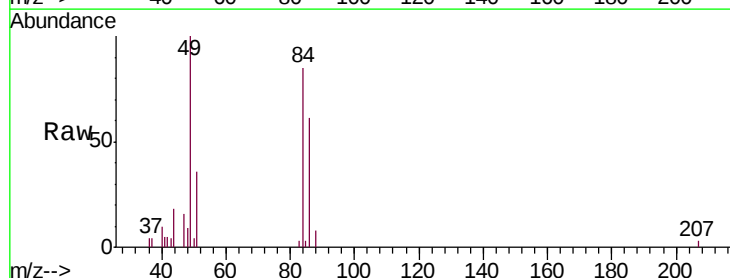
Ion Ratio Lower Upper

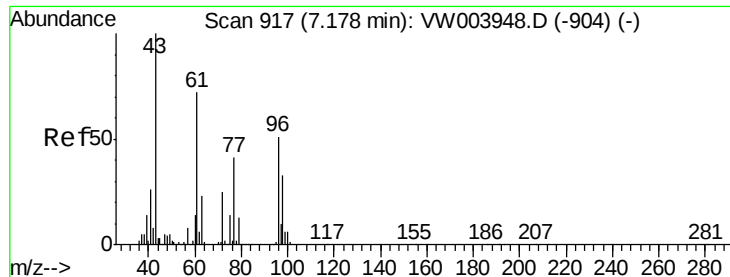
84 100

49 117.4 102.9 154.3

51 42.6 30.9 46.3

86 71.3 49.9 74.9

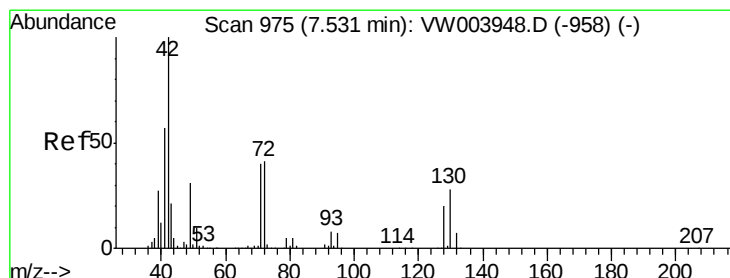
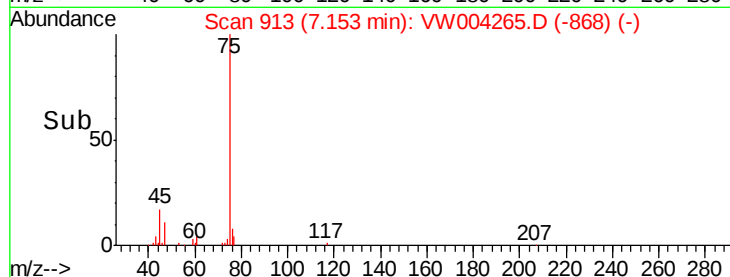
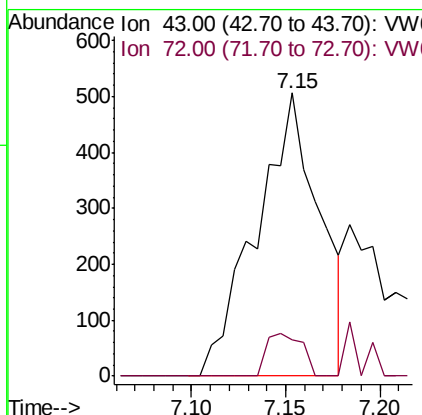
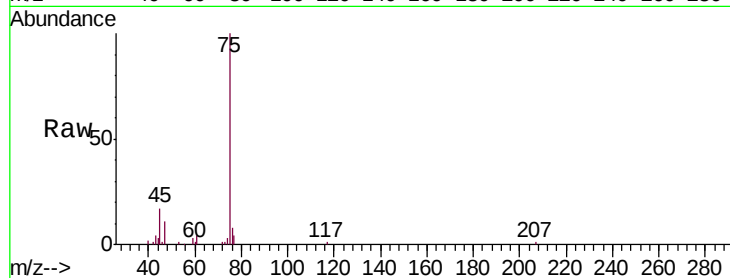




#25  
2-Butanone  
Concen: 1.28 ug/l  
RT: 7.15 min Scan# 913  
Delta R.T. -0.02 min  
Lab File: VW004265.D  
Acq: 27 Jul 2018 10:38

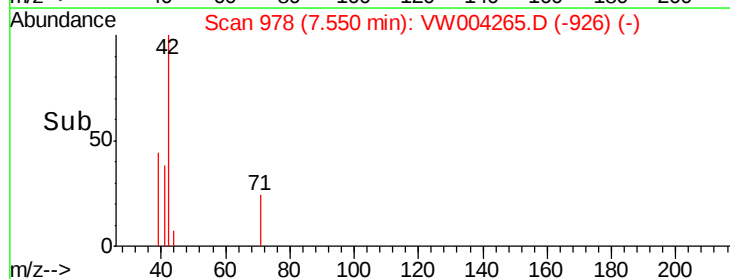
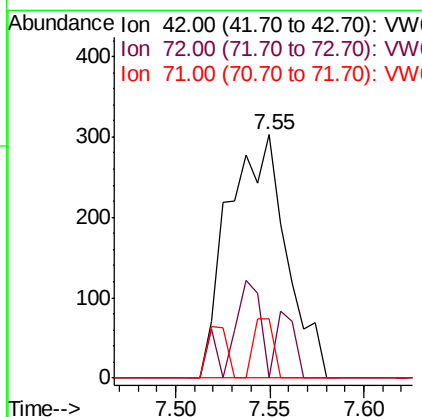
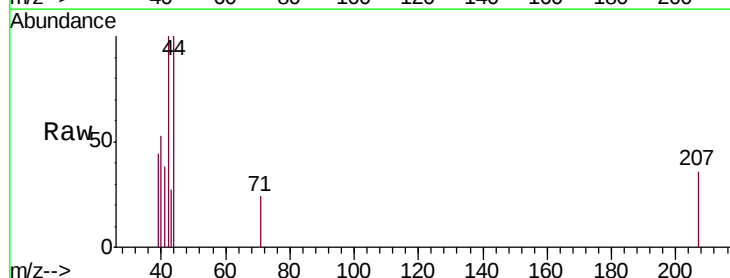
Instrument :  
MSVOA\_W  
ClientSampled :

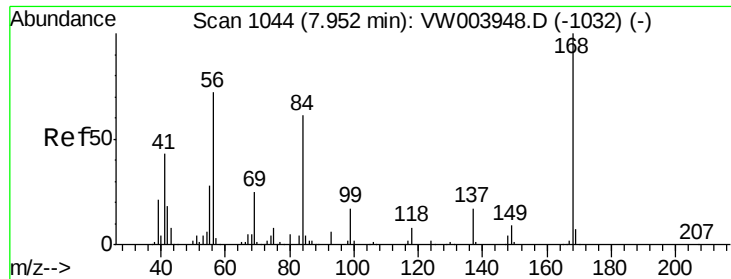
Tot Ion: 43 Resp: 1173  
Ion Ratio Lower Upper  
43 100  
72 13.0 19.8 29.6#



#29  
Tetrahydrofuran  
Concen: 1.13 ug/l  
RT: 7.55 min Scan# 978  
Delta R.T. 0.02 min  
Lab File: VW004265.D  
Acq: 27 Jul 2018 10:38

Tgt Ion: 42 Resp: 648  
Ion Ratio Lower Upper  
42 100  
72 19.6 32.6 48.8#  
71 8.3 30.5 45.7#

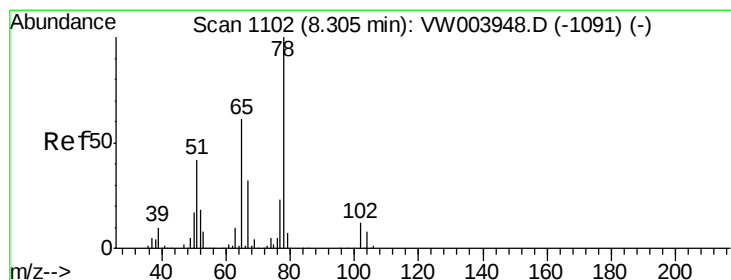
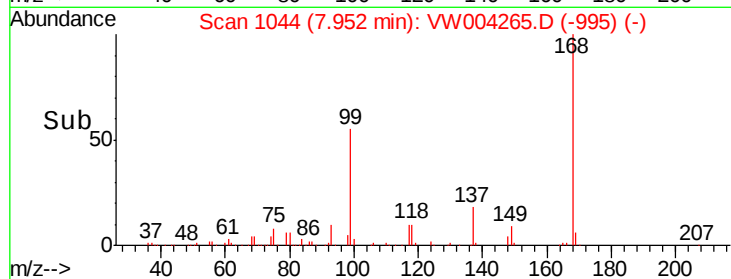
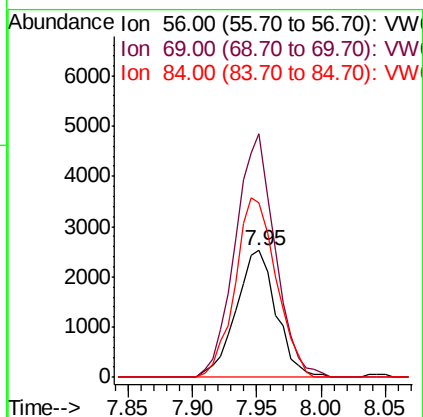
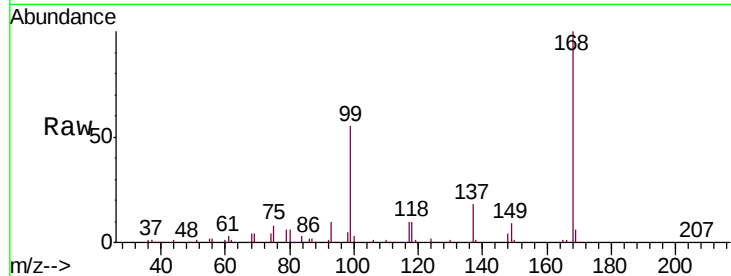




#31  
Cyclohexane  
Concen: 1.16 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. 0.00 min  
Lab File: VW004265.D  
Acq: 27 Jul 2018 10:38

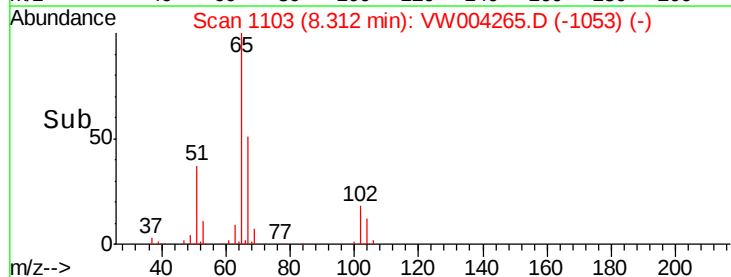
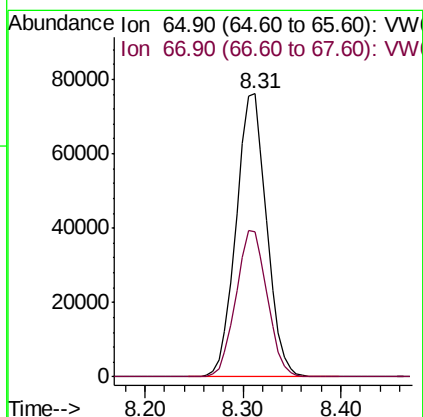
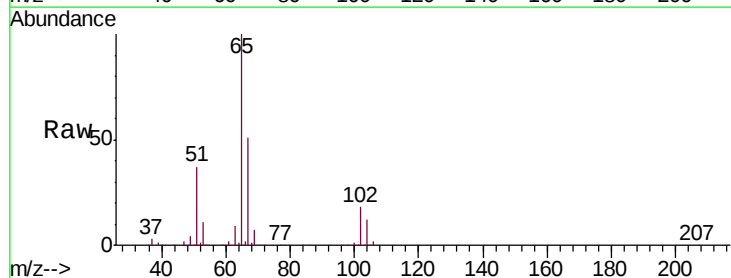
Instrument :  
MSVOA\_W  
ClientSampled :

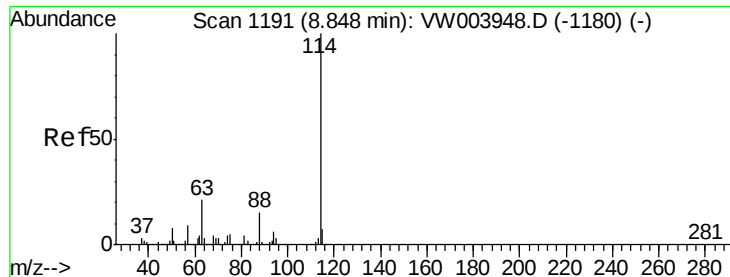
Tot Ion: 56 Resp: 5478  
Ion Ratio Lower Upper  
56 100  
69 192.0 27.8 41.8#  
84 137.3 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 58.11 ug/l  
RT: 8.31 min Scan# 1103  
Delta R.T. 0.01 min  
Lab File: VW004265.D  
Acq: 27 Jul 2018 10:38

Tgt Ion: 65 Resp: 164833  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 105.0

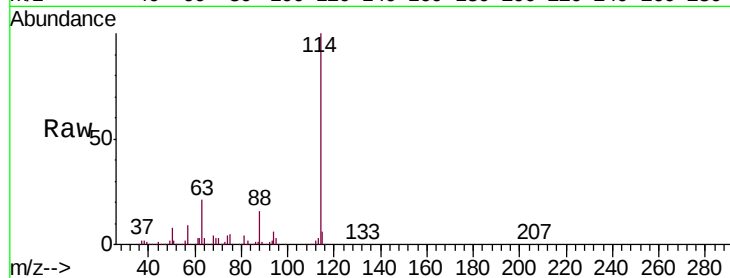




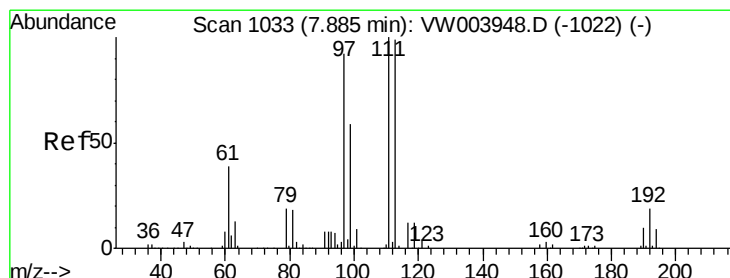
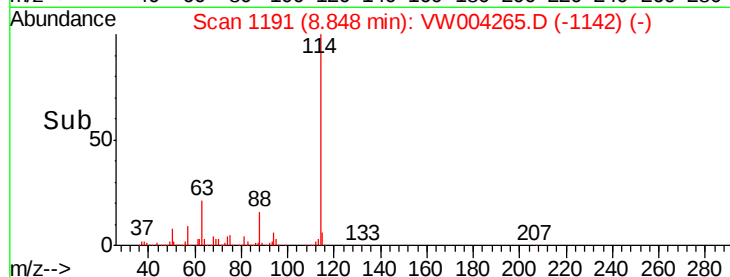
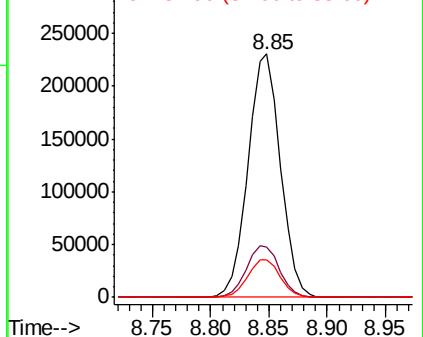
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW004265.D  
 Acq: 27 Jul 2018 10:38

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:114 Resp: 448070  
 Ion Ratio Lower Upper  
 114 100  
 63 20.6 0.0 42.8  
 88 15.6 0.0 30.4

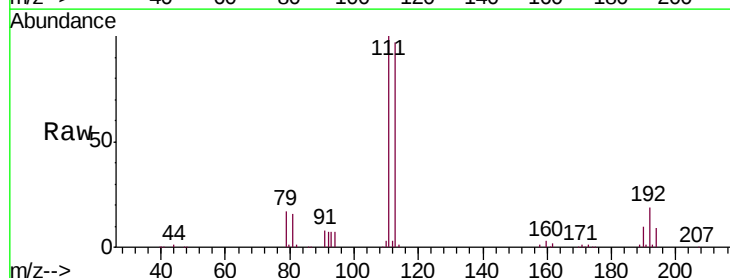


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

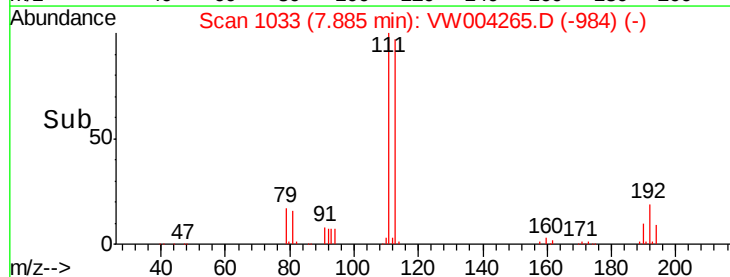
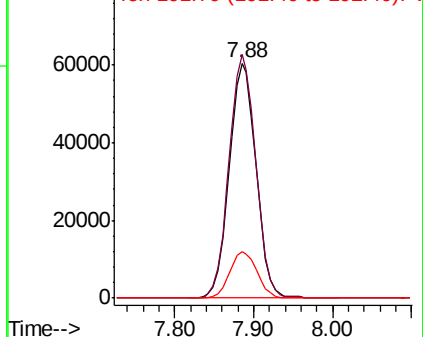


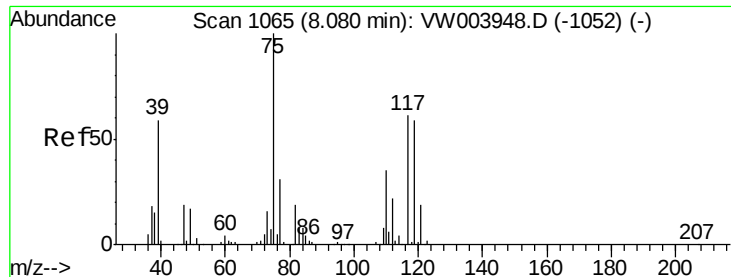
#35  
 Dibromofluoromethane  
 Concen: 49.56 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. 0.00 min  
 Lab File: VW004265.D  
 Acq: 27 Jul 2018 10:38

Tgt Ion:113 Resp: 142495  
 Ion Ratio Lower Upper  
 113 100  
 111 103.7 81.3 121.9  
 192 20.0 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





#36

1,1-Dichloropropene

Concen: 4.51 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW004265.D

Acq: 27 Jul 2018 10:38

Instrument :  
MSVOA\_W  
ClientSampleId :

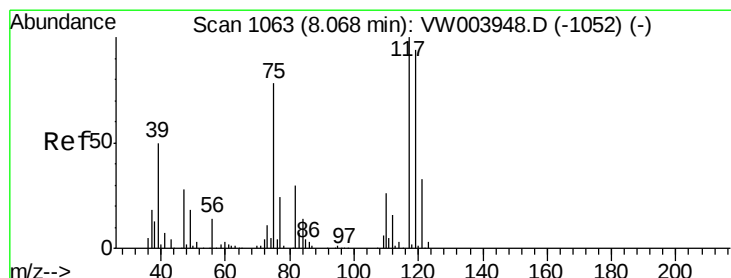
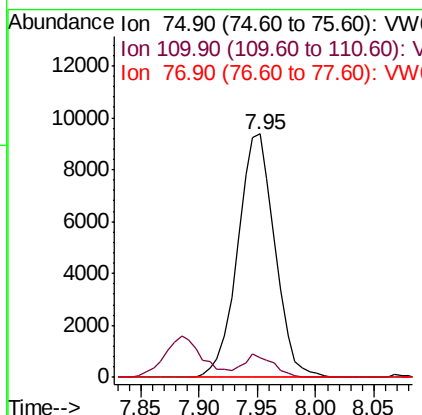
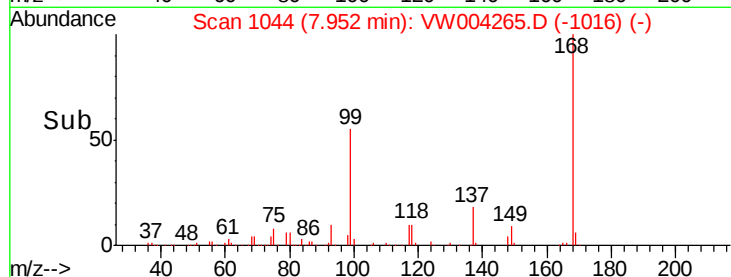
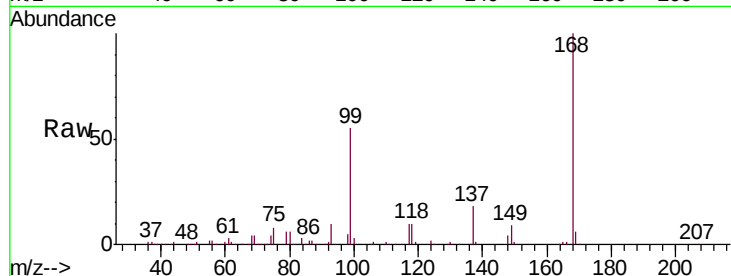
Tot Ion: 75 Resp: 20811

Ion Ratio Lower Upper

75 100

110 7.8 17.0 51.0#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.93 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

Lab File: VW004265.D

Acq: 27 Jul 2018 10:38

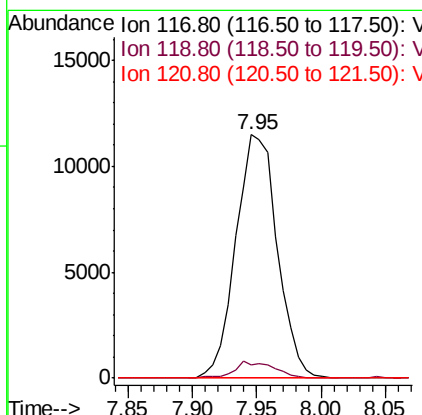
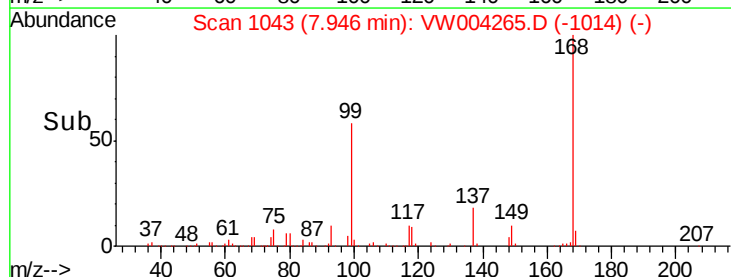
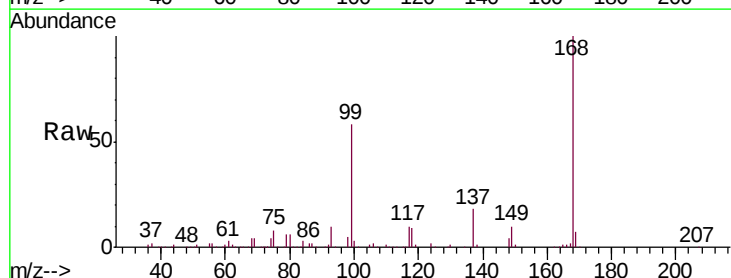
Tgt Ion: 117 Resp: 25531

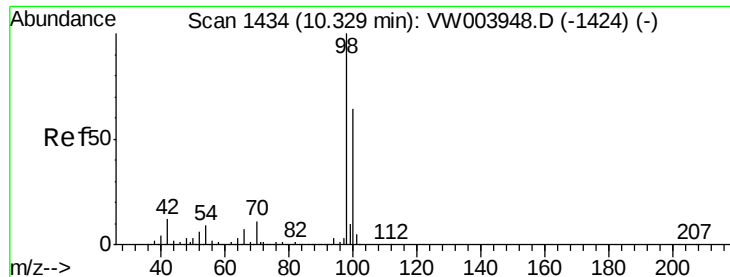
Ion Ratio Lower Upper

117 100

119 5.3 75.3 112.9#

121 0.0 26.0 39.0#





#50

Toluene-d8

Concen: 43.45 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW004265.D

Acq: 27 Jul 2018 10:38

Instrument :

MSVOA\_W

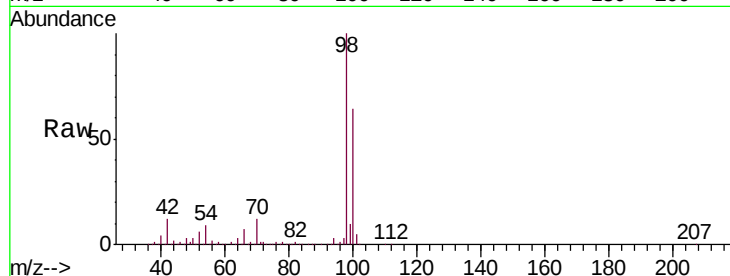
ClientSampled :

Tot Ion: 98 Resp: 484695

Ion Ratio Lower Upper

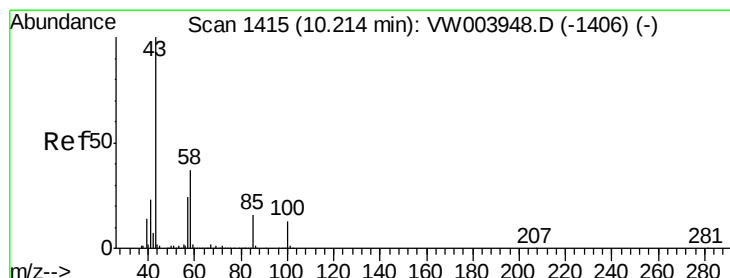
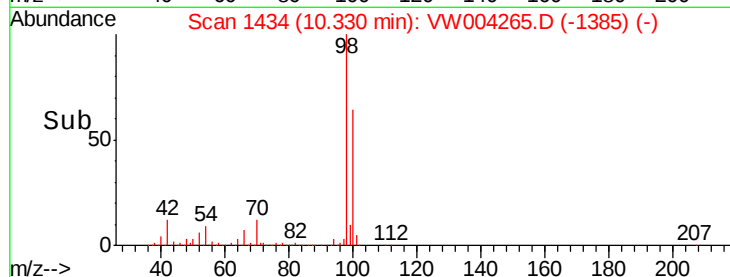
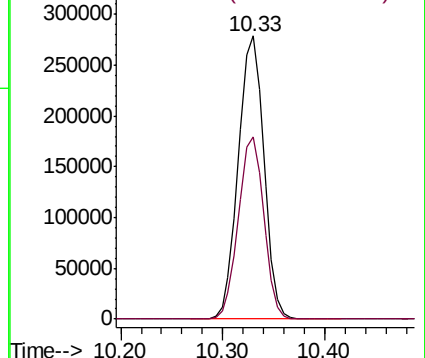
98 100

100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 1.05 ug/l

RT: 10.32 min Scan# 1433

Delta R.T. 0.11 min

Lab File: VW004265.D

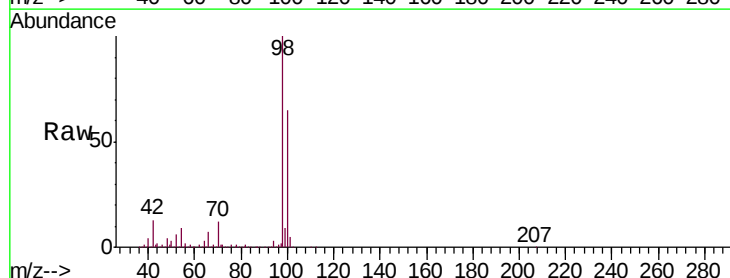
Acq: 27 Jul 2018 10:38

Tgt Ion: 43 Resp: 2325

Ion Ratio Lower Upper

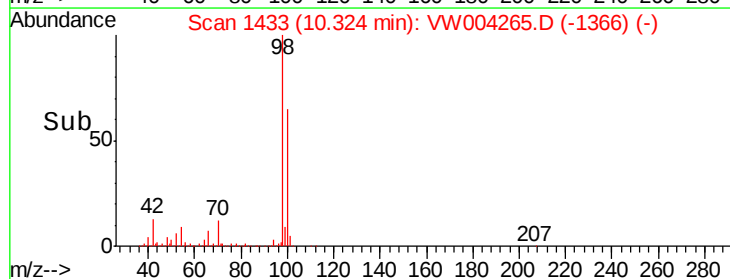
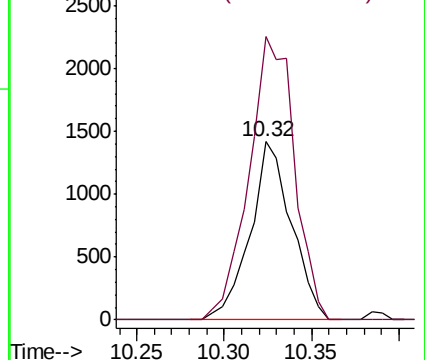
43 100

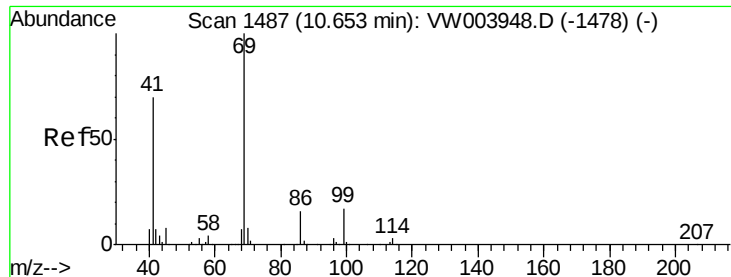
58 175.0 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#56

Ethyl methacrylate

Concen: 2.95 ug/l

RT: 10.84 min Scan# 1517

Delta R.T. 0.18 min

Lab File: VW004265.D

Acq: 27 Jul 2018 10:38

Instrument :

MSVOA\_W

ClientSampled :

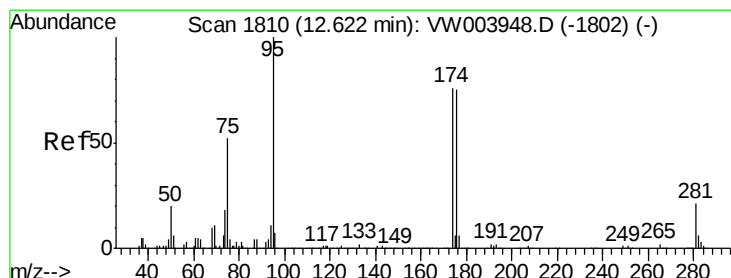
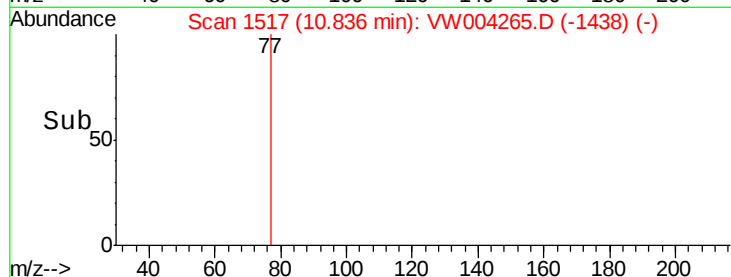
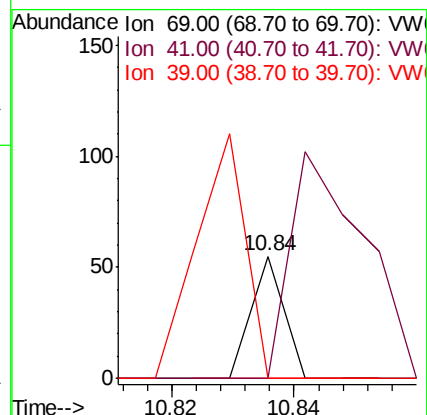
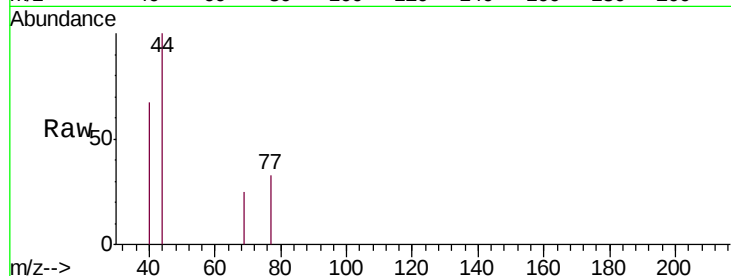
Tot Ion: 69 Resp: 20

Ion Ratio Lower Upper

69 100

41 425.0 56.5 84.7#

39 305.0 30.2 45.4#



#62

4-Bromofluorobenzene

Concen: 39.12 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VW004265.D

Acq: 27 Jul 2018 10:38

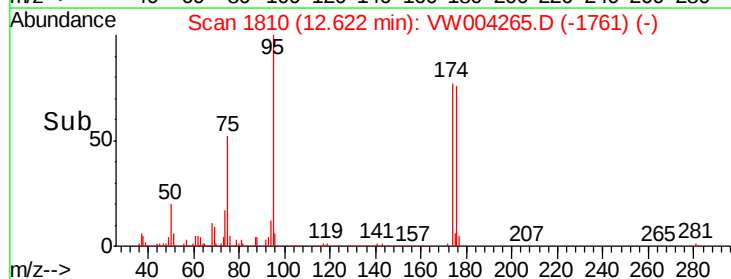
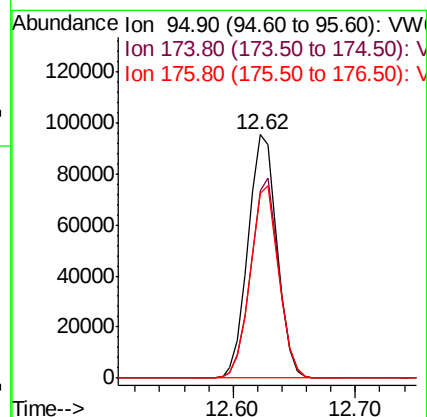
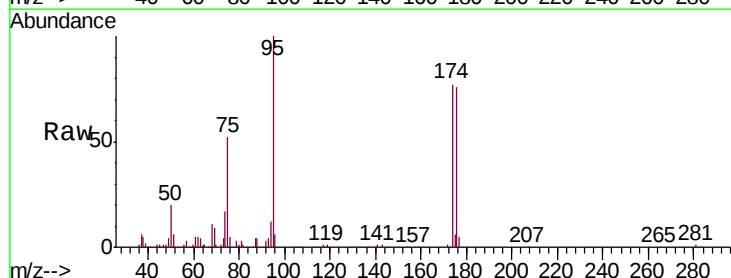
Tgt Ion: 95 Resp: 157355

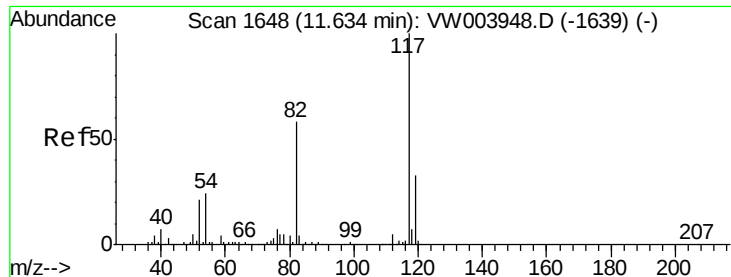
Ion Ratio Lower Upper

95 100

174 79.8 0.0 160.2

176 77.4 0.0 155.8

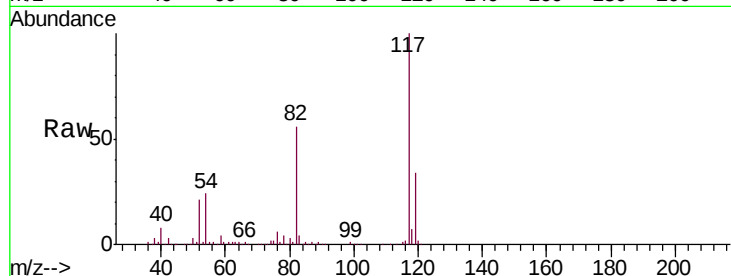




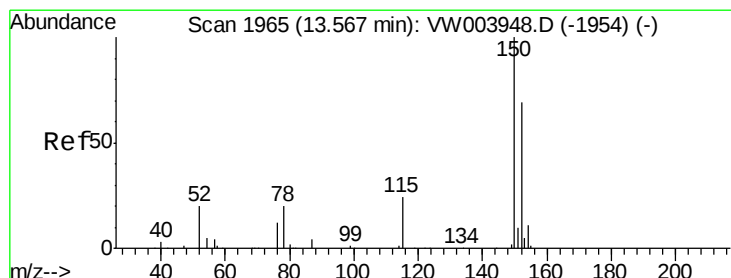
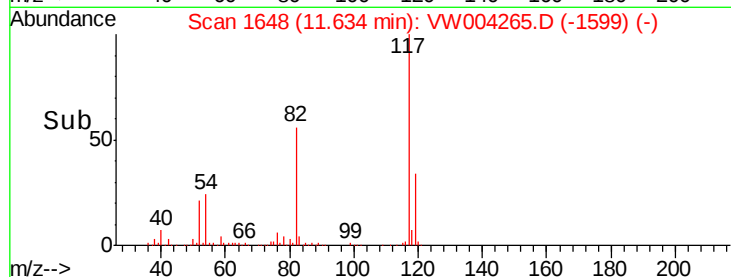
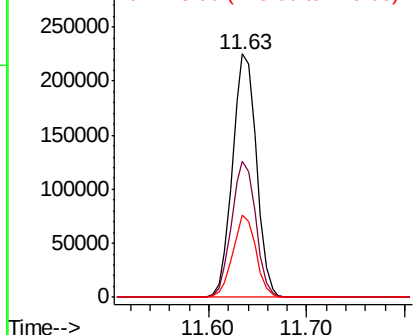
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. 0.00 min  
Lab File: VW004265.D  
Acq: 27 Jul 2018 10:38

Instrument :  
MSVOA\_W  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.0  | 46.5  | 69.7  |
| 119     | 33.6  | 26.2  | 39.2  |

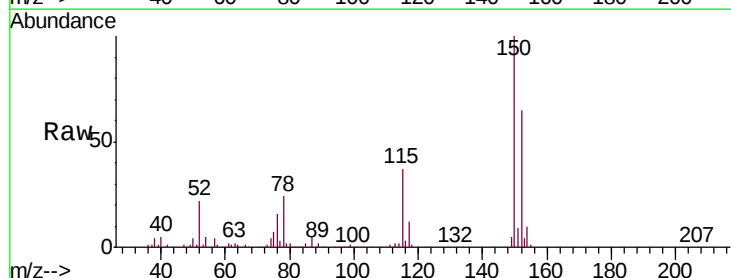


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

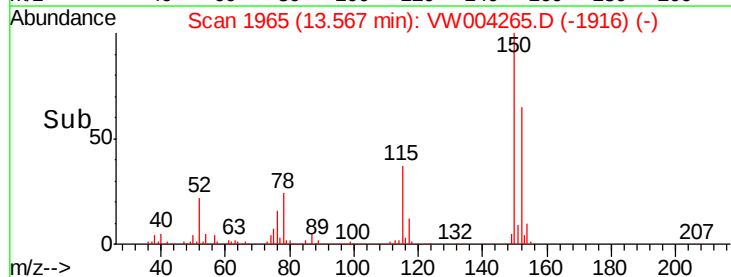
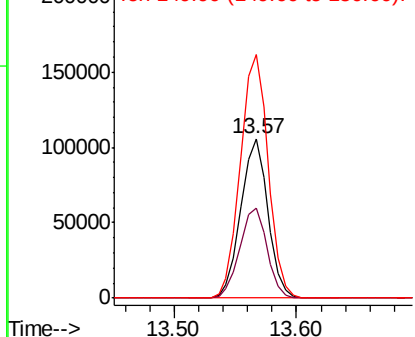


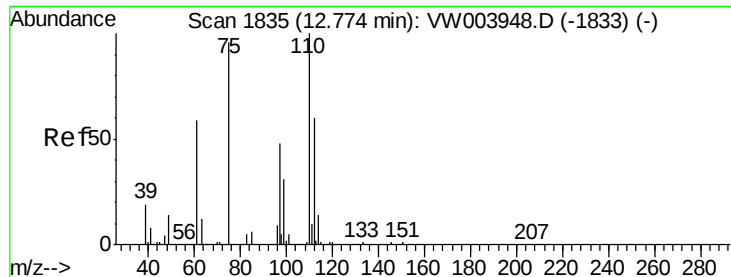
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: VW004265.D  
Acq: 27 Jul 2018 10:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.2  | 29.2  | 87.6  |
| 150     | 156.8 | 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





#76

1,2,3-Trichloropropane

Concen: 49.33 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW004265.D

Acq: 27 Jul 2018 10:38

Instrument :

MSVOA\_W

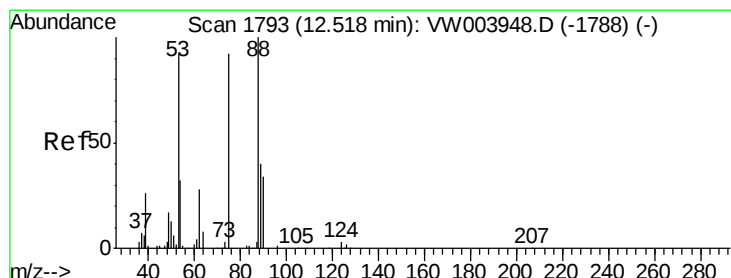
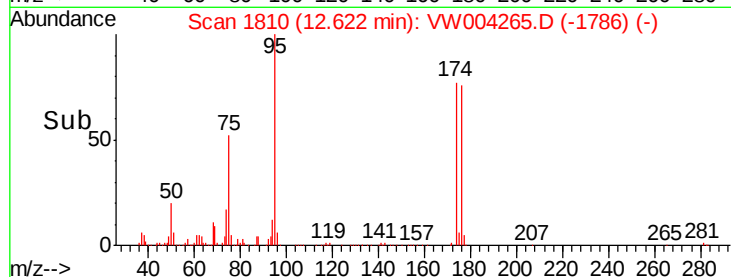
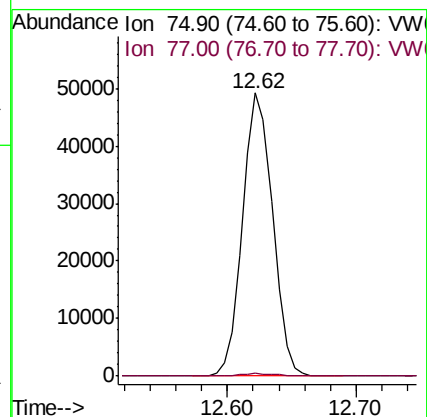
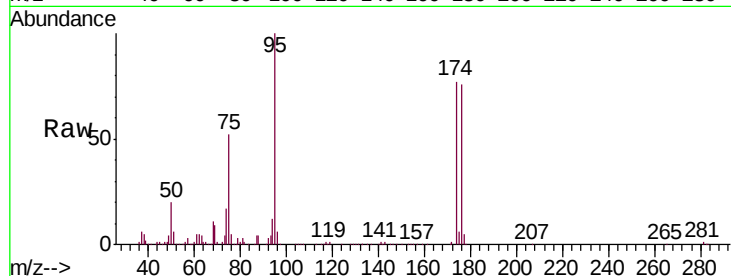
ClientSampleId :

Tot Ion: 75 Resp: 79404

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 109.12 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW004265.D

Acq: 27 Jul 2018 10:38

Tgt Ion: 75 Resp: 79404

Ion Ratio Lower Upper

75 100

53 0.2 77.6 116.4#

89 0.0 36.6 54.8#

