

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW021419\  
 Data File : VW008670.D  
 Acq On : 14 Feb 2019 17:01  
 Operator : SY/VA  
 Sample : K1484-07RE  
 Misc : 5.53G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 M-2-DRE

Quant Time: Feb 15 02:49:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W021319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 14 04:06:50 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 400058   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 611022   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 532097   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 260789   | 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   | 212095   | 50.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.98% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 187607   | 49.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.90%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 718205   | 49.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.22%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 251697   | 45.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.38%  |          |

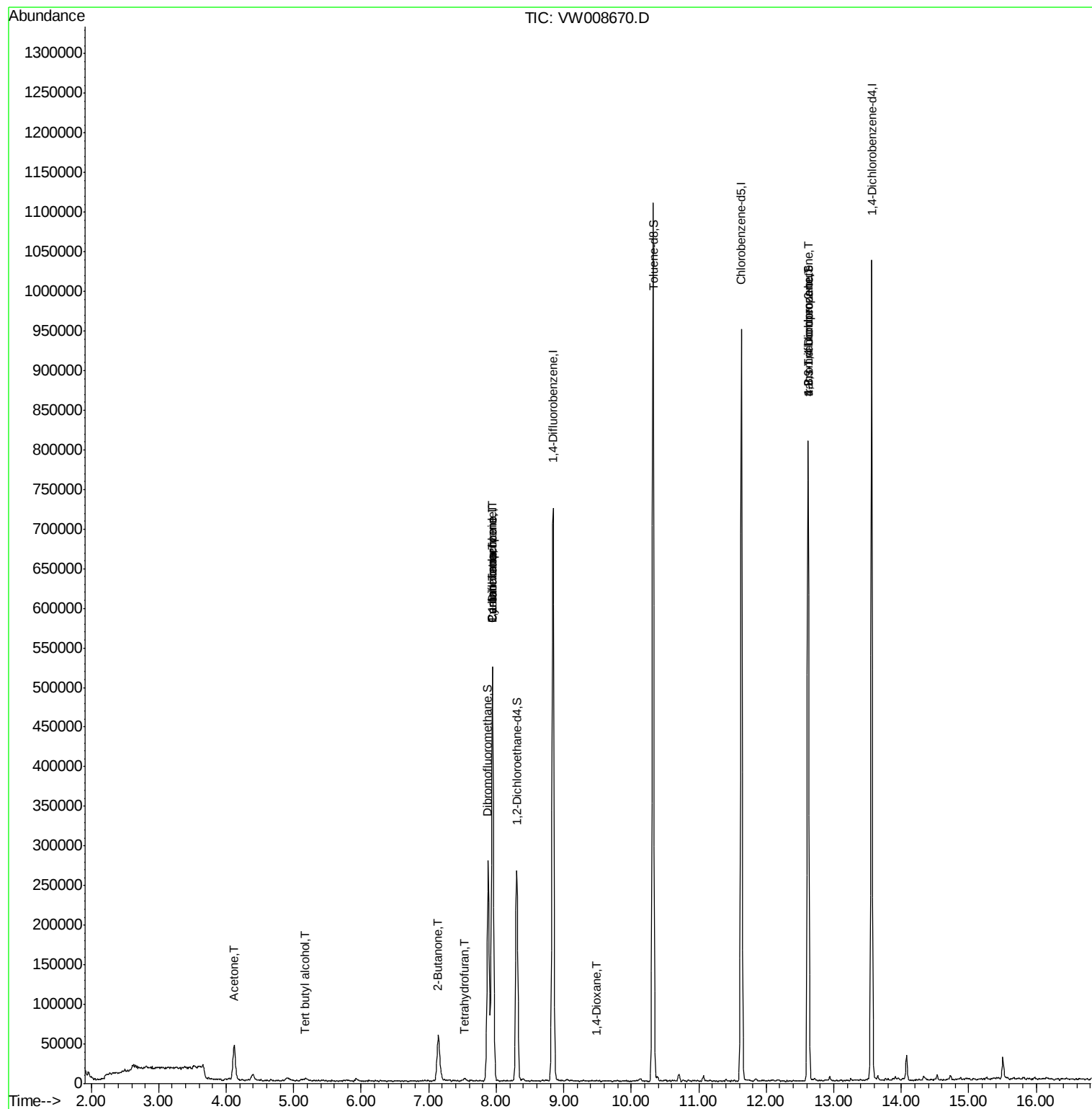
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.18  | 59   | 4975     | 14.950    | ug/l # | 82     |
| 16) Acetone                    | 4.12  | 43   | 75114    | 79.365    | ug/l   | 99     |
| 20) Methylene Chloride         | 4.90  | 84   | 2693     | Below Cal | #      | 55     |
| 25) 2-Butanone                 | 7.14  | 43   | 2874     | 2.151     | ug/l # | 63     |
| 29) Tetrahydrofuran            | 7.52  | 42   | 1432     | 1.626     | ug/l # | 50     |
| 31) Cyclohexane                | 7.94  | 56   | 9255     | 1.217     | ug/l # | 19     |
| 36) 1,1-Dichloropropene        | 7.94  | 75   | 30548    | 4.976     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 38256    | 6.267     | ug/l # | 19     |
| 49) 1,4-Dioxane                | 9.48  | 88   | 55       | 1.508     | ug/l # | 22     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 128871   | 50.044    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 128871   | 107.296   | ug/l # | 6      |

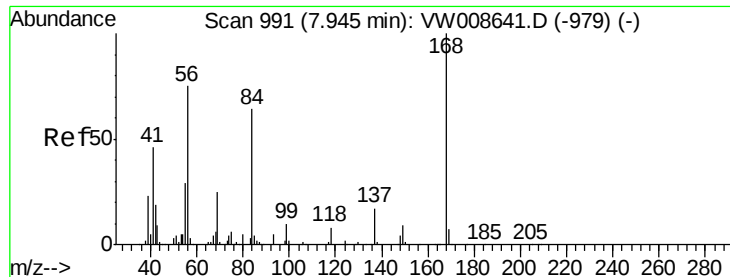
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Feb 14 04:06:50 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008670.D

Acq: 14 Feb 2019 17:01

Instrument :

MSVOA\_W

ClientSampleId :

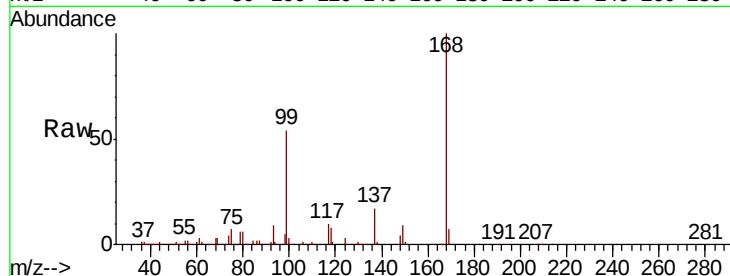
M-2-DRE

Tgt Ion:168 Resp: 400058

Ion Ratio Lower Upper

168 100

99 54.2 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

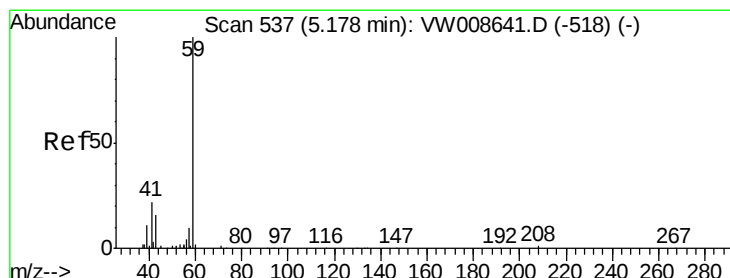
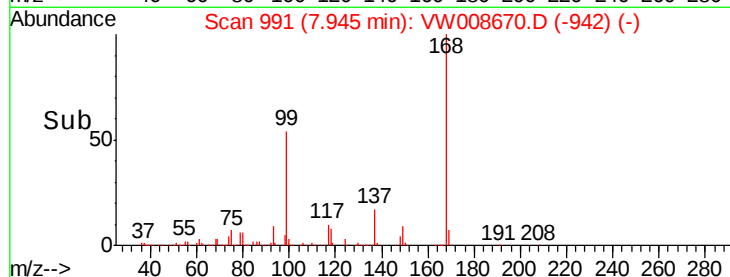
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 14.950 ug/l

RT: 5.18 min Scan# 537

Delta R.T. 0.00 min

Lab File: VW008670.D

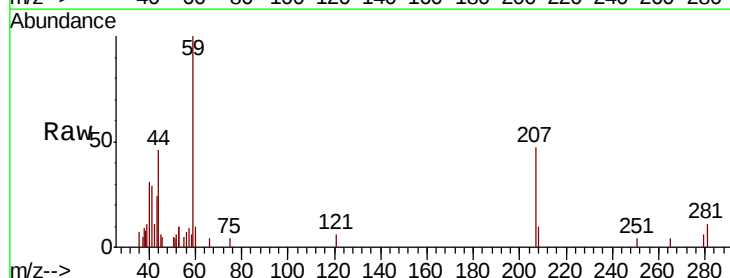
Acq: 14 Feb 2019 17:01

Tgt Ion: 59 Resp: 4975

Ion Ratio Lower Upper

59 100

57 3.6 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.18

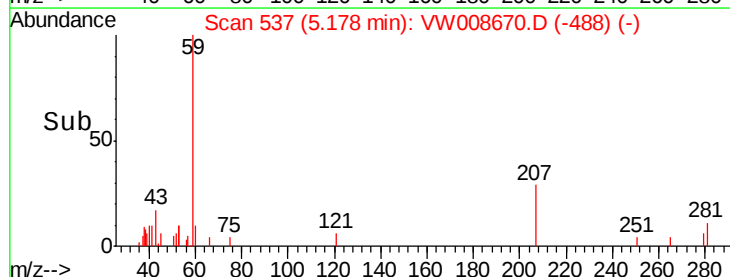
1500

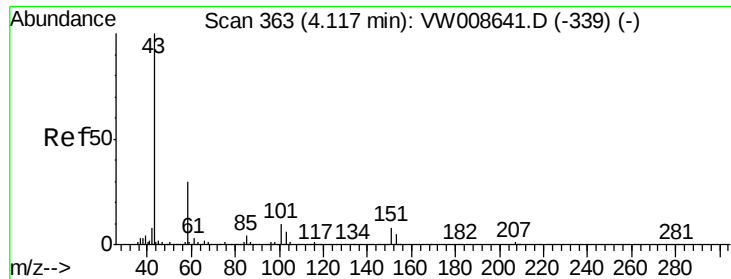
1000

500

0

Time--> 5.10 5.15 5.20 5.25 5.30

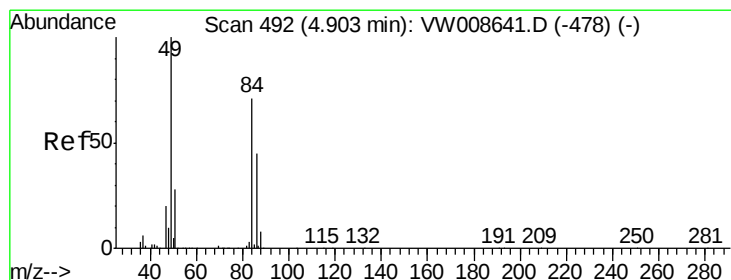
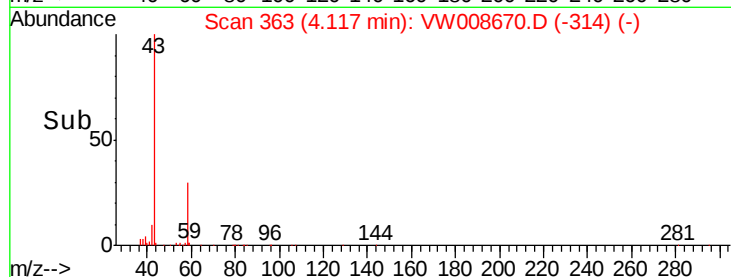
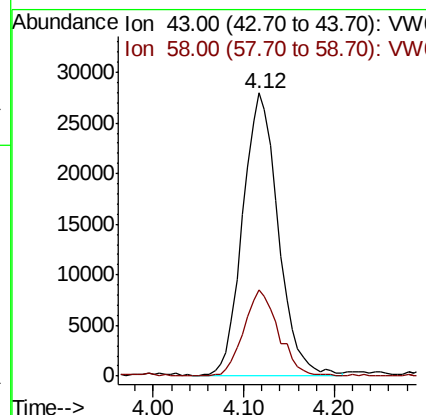
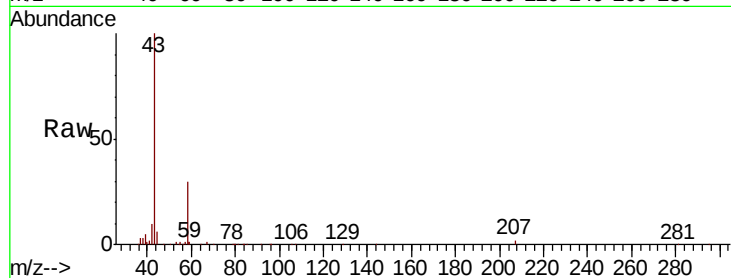




#16  
Acetone  
Concen: 79.365 ug/l  
RT: 4.12 min Scan# 363  
Delta R.T. 0.00 min  
Lab File: VW008670.D  
Acq: 14 Feb 2019 17:01

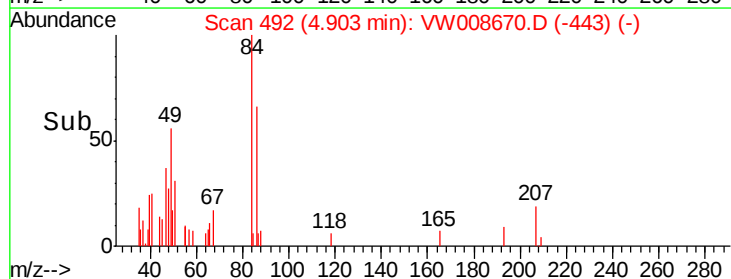
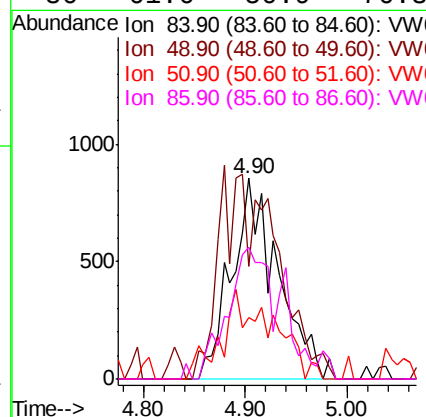
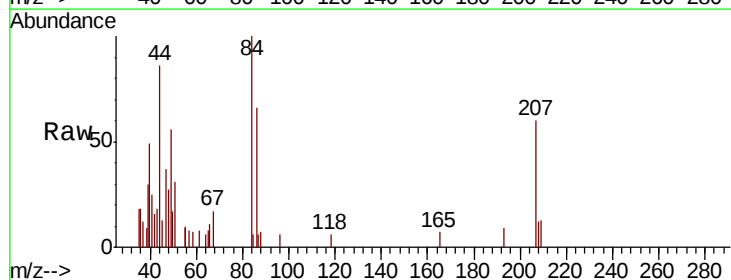
Instrument :  
MSVOA\_W  
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M-2-DRE

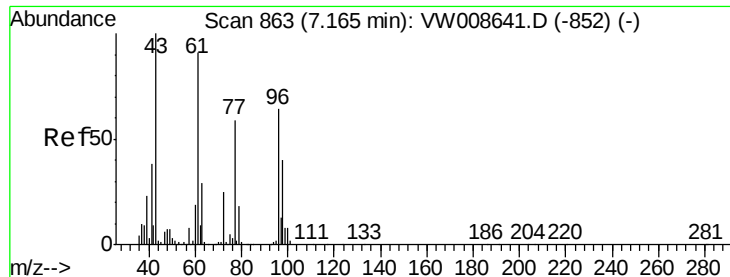
Tgt Ion: 43 Resp: 75114  
Ion Ratio Lower Upper  
43 100  
58 30.4 24.1 36.1



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.90 min Scan# 492  
Delta R.T. 0.00 min  
Lab File: VW008670.D  
Acq: 14 Feb 2019 17:01

Tgt Ion: 84 Resp: 2693  
Ion Ratio Lower Upper  
84 100  
49 52.7 113.3 169.9#  
51 28.9 32.1 48.1#  
86 61.6 50.9 76.3





#25

2-Butanone

Concen: 2.151 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW008670.D

Acq: 14 Feb 2019 17:01

Instrument :

MSVOA\_W

ClientSampleId :

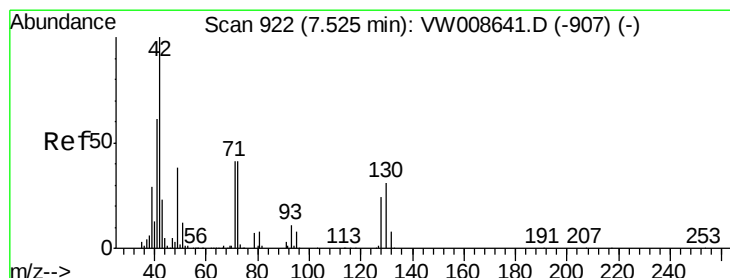
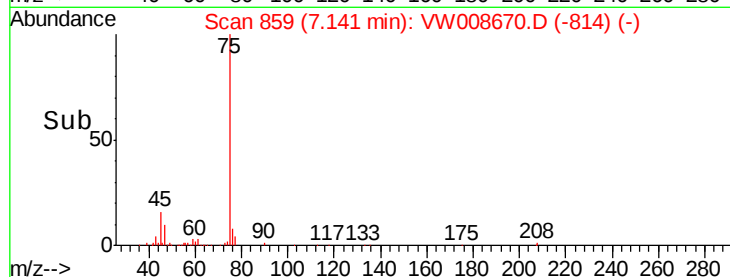
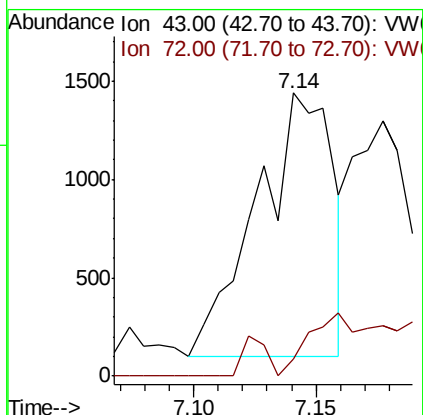
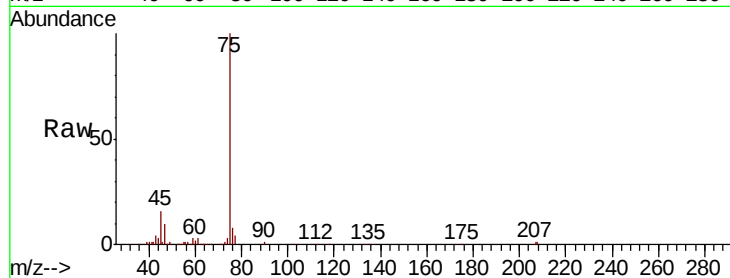
M-2-DRE

Tgt Ion: 43 Resp: 2874

Ion Ratio Lower Upper

43 100

72 6.4 19.7 29.5#



#29

Tetrahydrofuran

Concen: 1.626 ug/l

RT: 7.52 min Scan# 922

Delta R.T. 0.00 min

Lab File: VW008670.D

Acq: 14 Feb 2019 17:01

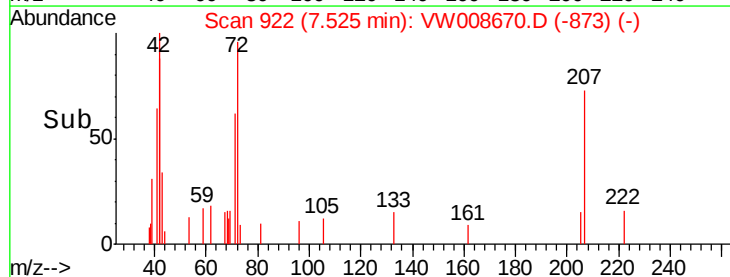
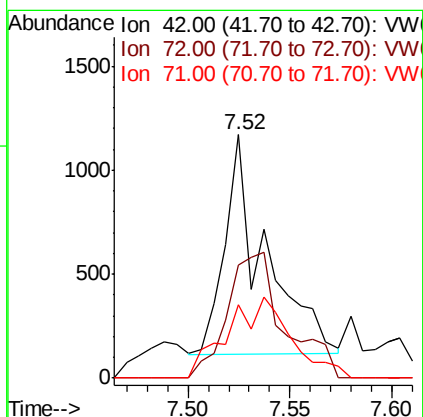
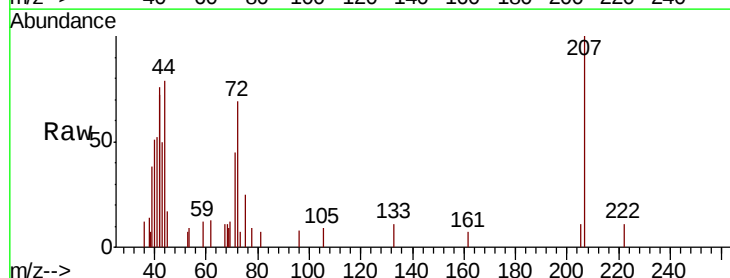
Tgt Ion: 42 Resp: 1432

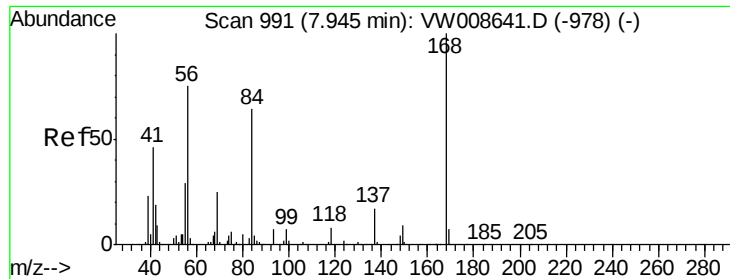
Ion Ratio Lower Upper

42 100

72 81.4 32.2 48.2#

71 58.9 31.0 46.6#

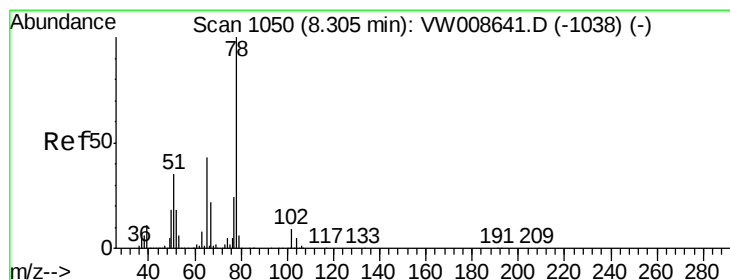
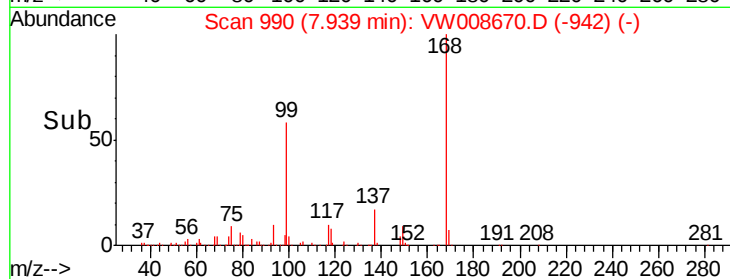
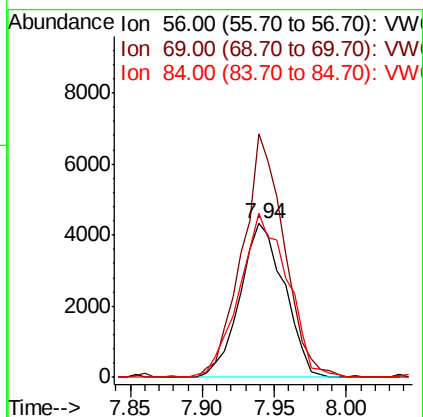
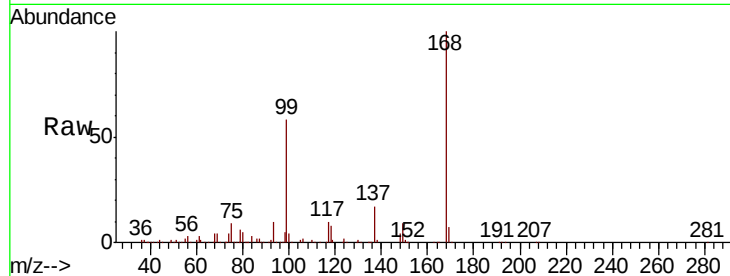




#31  
Cyclohexane  
Concen: 1.217 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.01 min  
Lab File: VW008670.D  
Acq: 14 Feb 2019 17:01

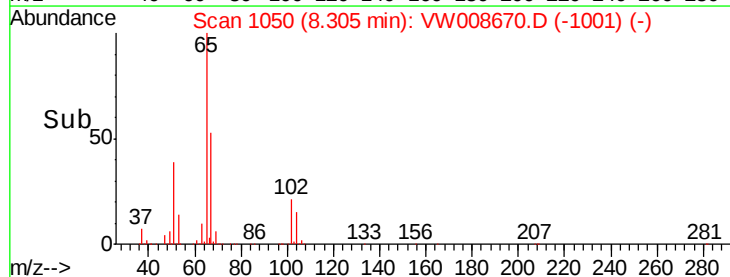
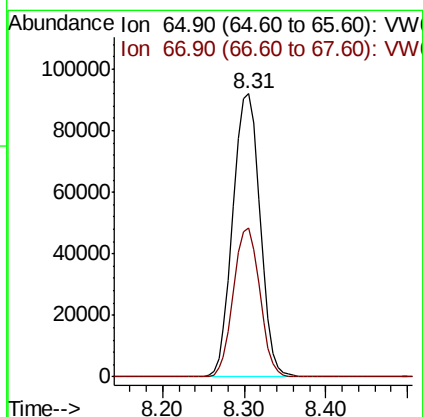
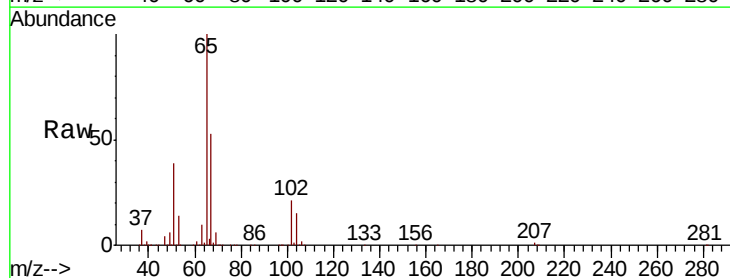
Instrument :  
MSVOA\_W  
ClientSampleId :  
M-2-DRE

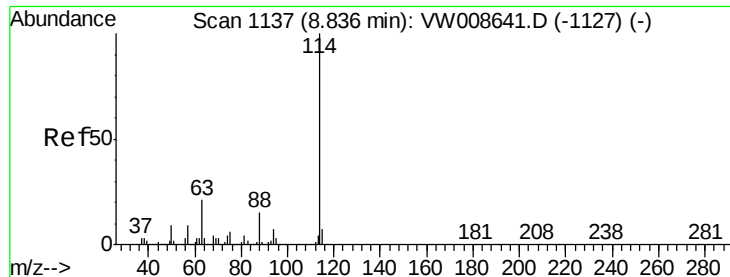
Tgt Ion: 56 Resp: 9255  
Ion Ratio Lower Upper  
56 100  
69 158.7 26.4 39.6#  
84 107.4 67.4 101.2#



#33  
1,2-Dichloroethane-d4  
Concen: 50.995 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. 0.00 min  
Lab File: VW008670.D  
Acq: 14 Feb 2019 17:01

Tgt Ion: 65 Resp: 212095  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 102.0

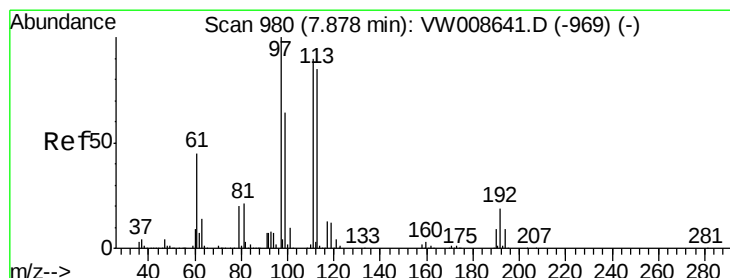
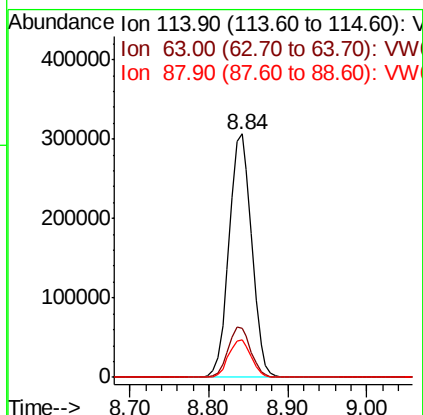
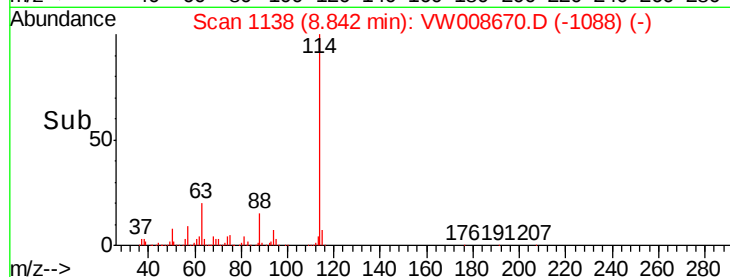
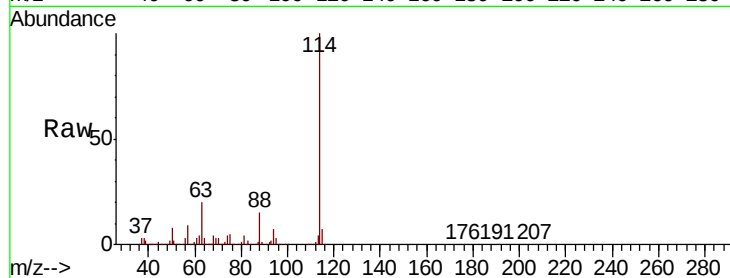




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.01 min  
 Lab File: VW008670.D  
 Acq: 14 Feb 2019 17:01

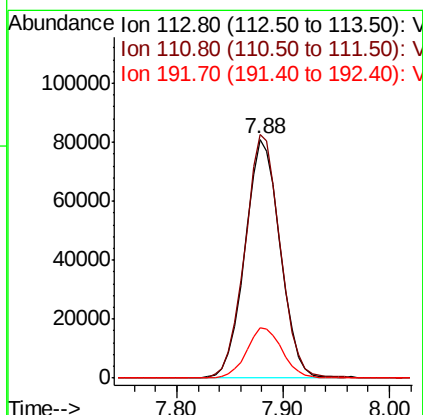
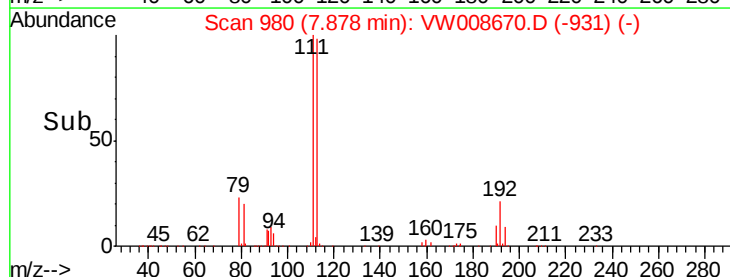
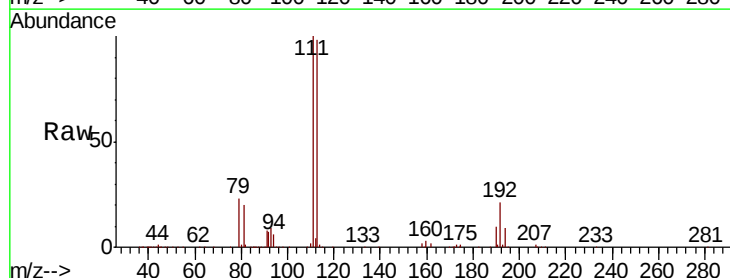
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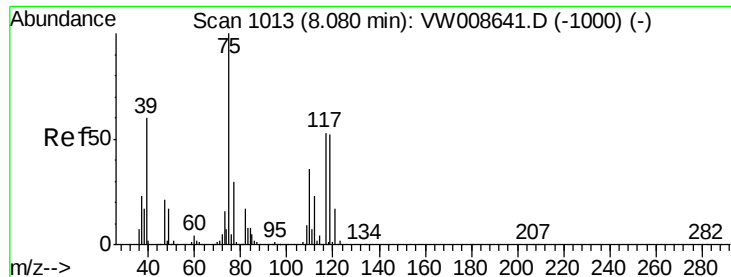
Tgt Ion:114 Resp: 611022  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 0.0 41.2  
 88 15.4 0.0 29.6



#35  
 Dibromofluoromethane  
 Concen: 49.447 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. 0.00 min  
 Lab File: VW008670.D  
 Acq: 14 Feb 2019 17:01

Tgt Ion:113 Resp: 187607  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 84.0 126.0  
 192 21.5 17.4 26.2

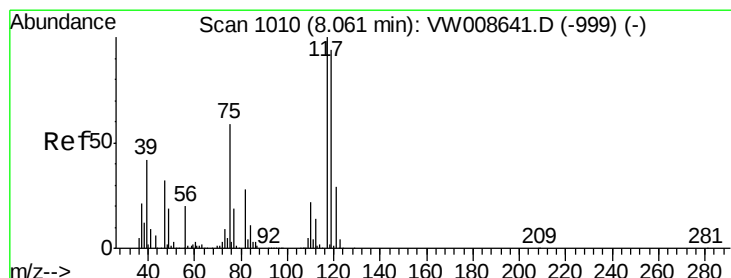
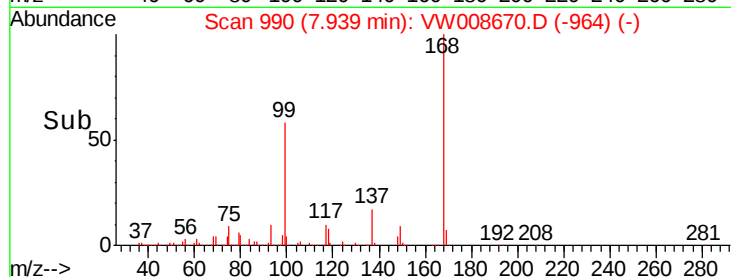
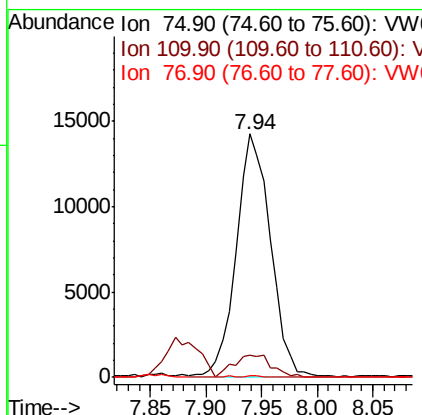
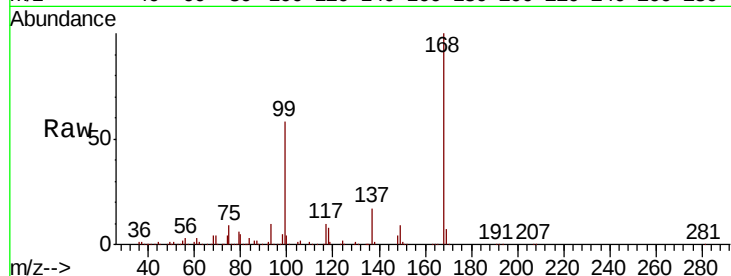




#36  
 1,1-Dichloropropene  
 Concen: 4.976 ug/l  
 RT: 7.94 min Scan# 990  
 Delta R.T. -0.14 min  
 Lab File: VW008670.D  
 Acq: 14 Feb 2019 17:01

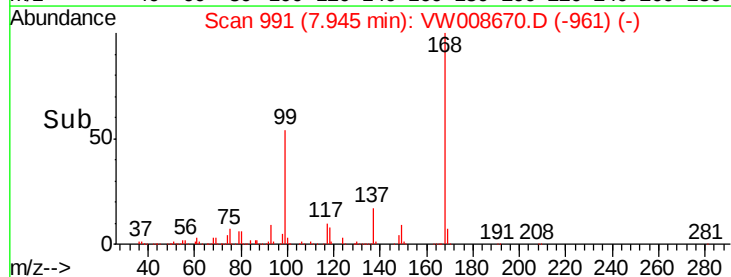
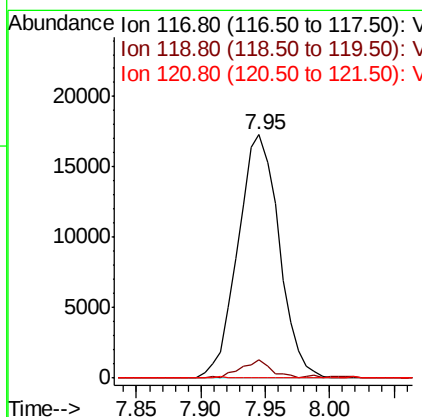
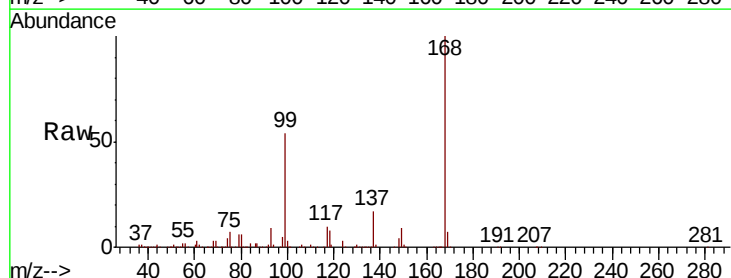
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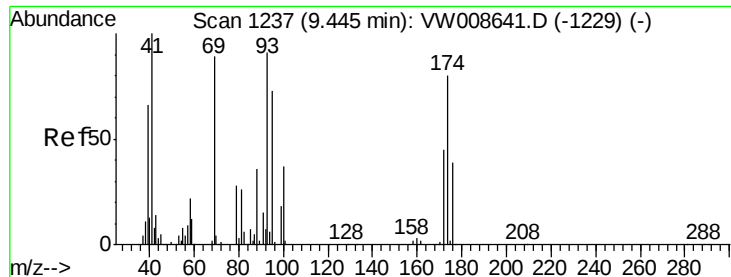
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.3  | 17.8  | 53.3# |
| 77      | 0.2   | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 6.267 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW008670.D  
 Acq: 14 Feb 2019 17:01

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 7.3   | 75.1  | 112.7# |
| 121     | 0.0   | 23.5  | 35.3#  |

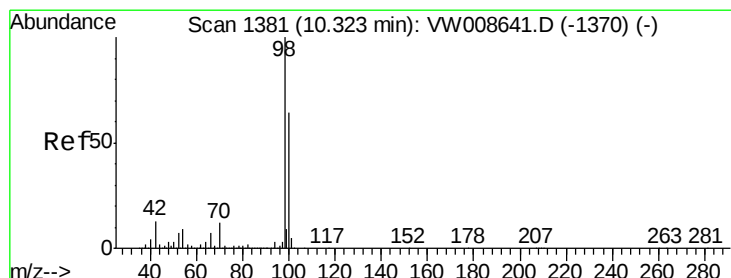
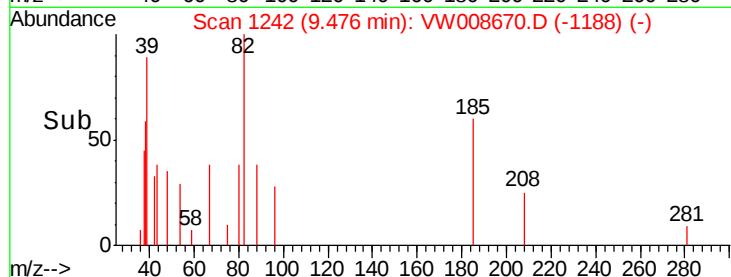
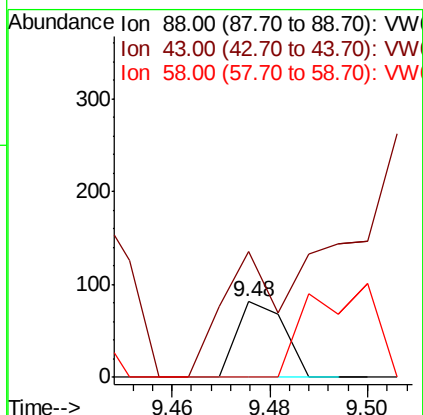
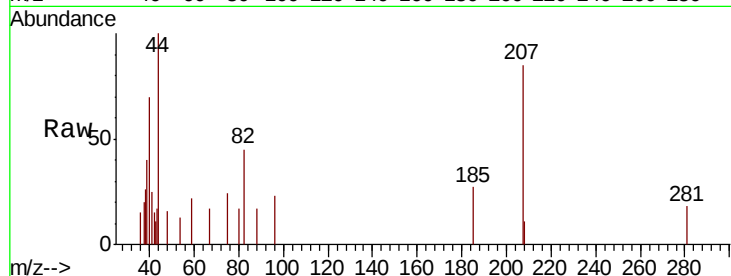




#49  
1,4-Dioxane  
Concen: 1.508 ug/l  
RT: 9.48 min Scan# 1242  
Delta R.T. 0.03 min  
Lab File: VW008670.D  
Acq: 14 Feb 2019 17:01

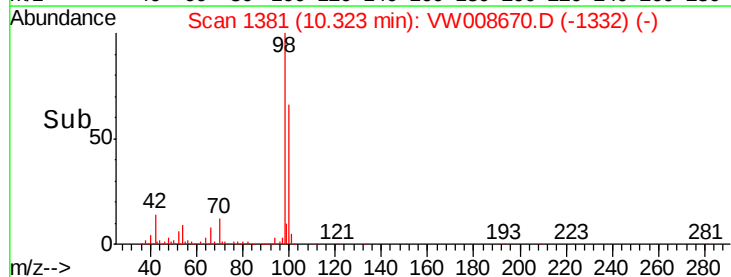
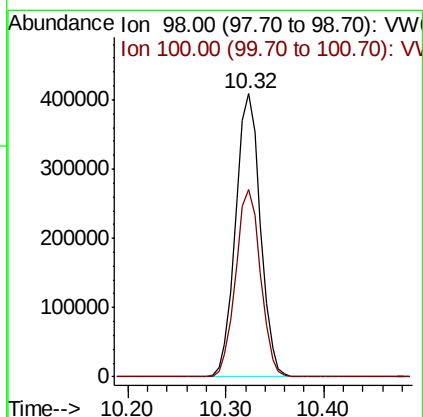
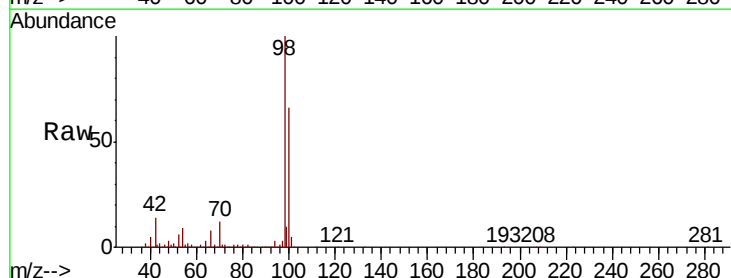
Instrument :  
MSVOA\_W  
ClientSampleId :  
M-2-DRE

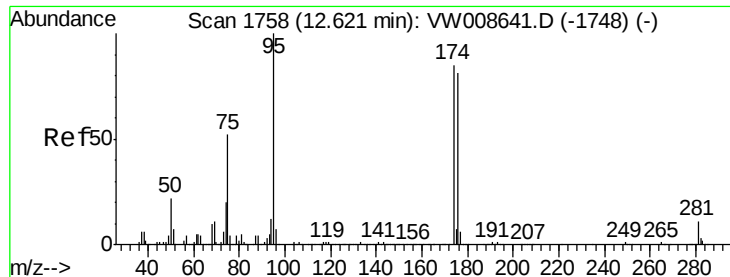
Tgt Ion: 88 Resp: 55  
Ion Ratio Lower Upper  
88 100  
43 0.0 31.0 46.6#  
58 0.0 57.0 85.6#



#50  
Toluene-d8  
Concen: 49.106 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW008670.D  
Acq: 14 Feb 2019 17:01

Tgt Ion: 98 Resp: 718205  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.2 78.4





#62

4-Bromofluorobenzene

Concen: 45.688 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008670.D

Acq: 14 Feb 2019 17:01

Instrument :

MSVOA\_W

ClientSampleId :

M-2-DRE

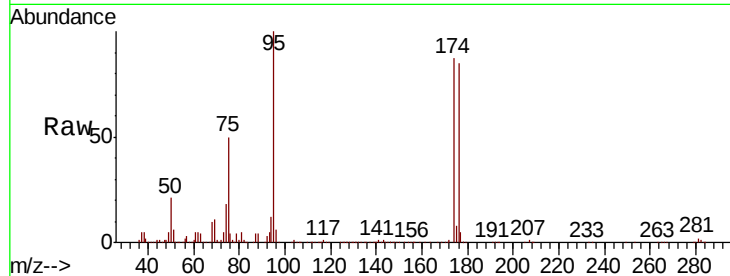
Tgt Ion: 95 Resp: 251697

Ion Ratio Lower Upper

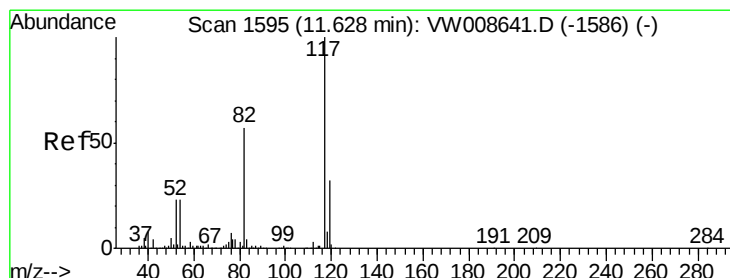
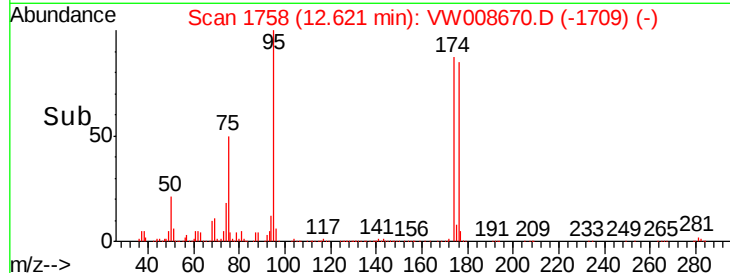
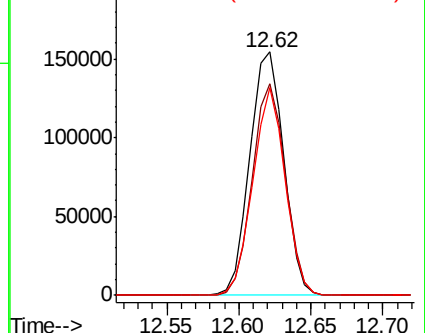
95 100

174 84.8 0.0 163.2

176 81.1 0.0 158.0



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: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.01 min

Lab File: VW008670.D

Acq: 14 Feb 2019 17:01

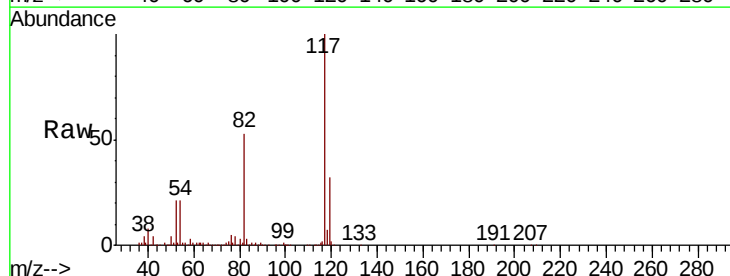
Tgt Ion: 117 Resp: 532097

Ion Ratio Lower Upper

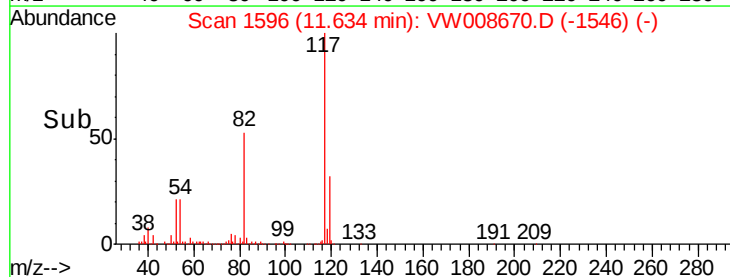
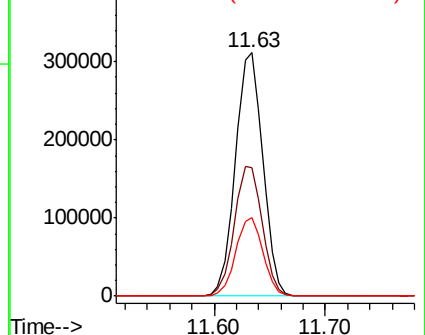
117 100

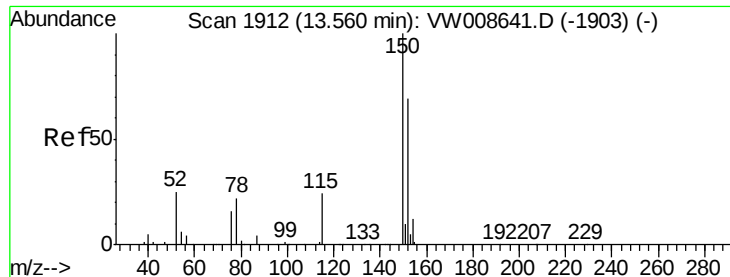
82 53.0 45.6 68.4

119 32.0 25.7 38.5



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: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008670.D

Acq: 14 Feb 2019 17:01

Instrument :

MSVOA\_W

ClientSampleId :

M-2-DRE

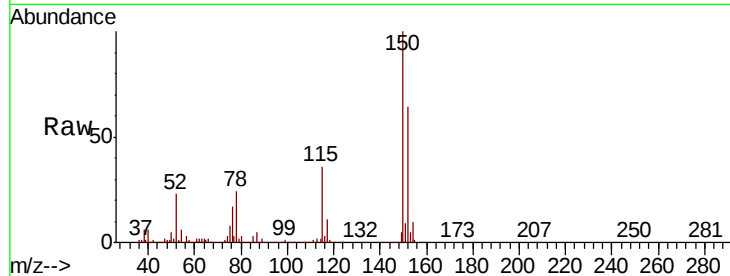
Tgt Ion: 152 Resp: 260789

Ion Ratio Lower Upper

152 100

115 56.5 29.3 87.8

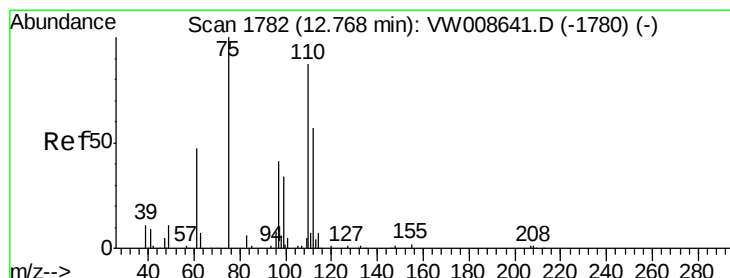
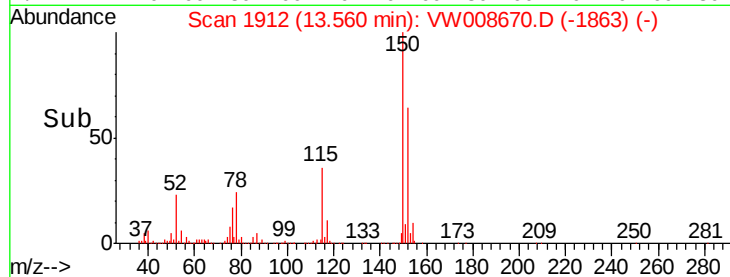
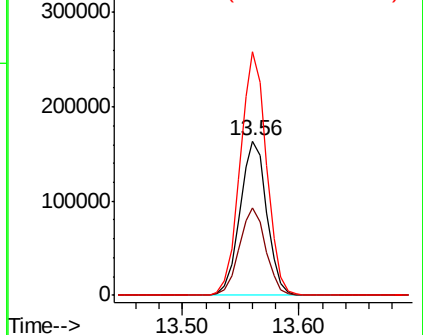
150 155.9 0.0 352.8



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: 50.044 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW008670.D

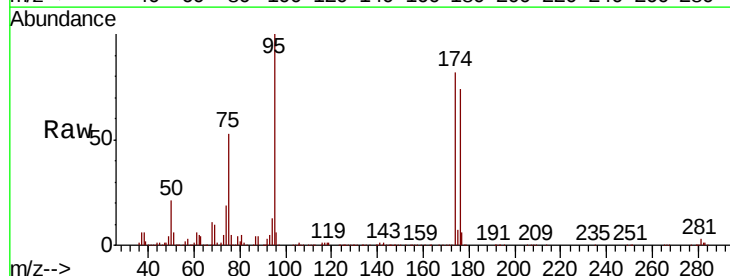
Acq: 14 Feb 2019 17:01

Tgt Ion: 75 Resp: 128871

Ion Ratio Lower Upper

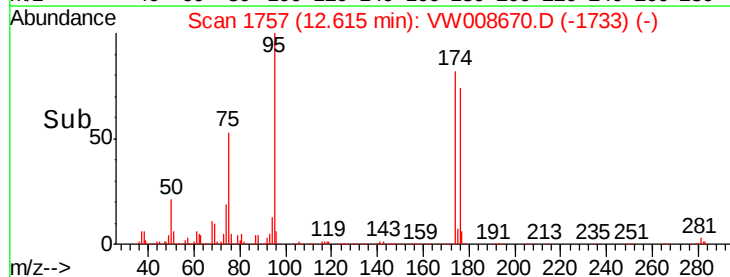
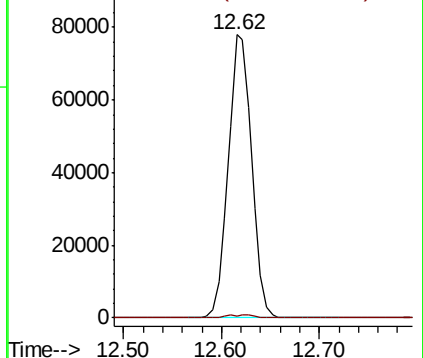
75 100

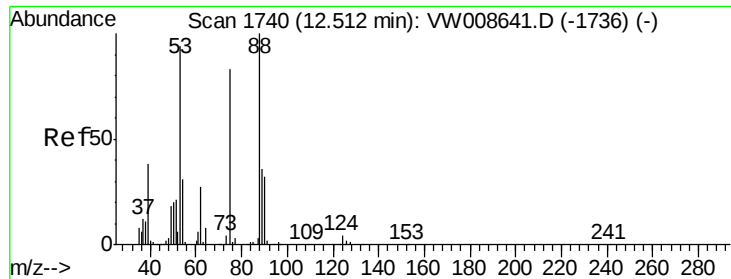
77 1.4 0.0 0.0#



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: 107.296 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008670.D

Acq: 14 Feb 2019 17:01

Instrument :

MSVOA\_W

ClientSampleId :

M-2-DRE

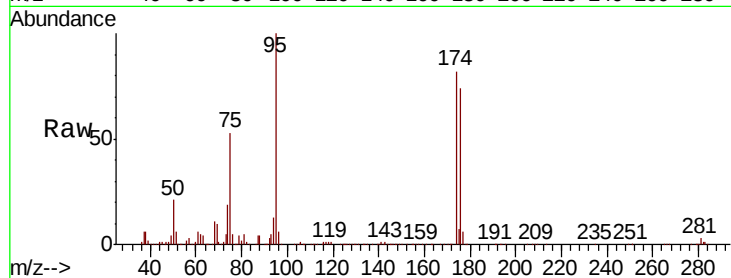
Tgt Ion: 75 Resp: 128871

Ion Ratio Lower Upper

75 100

53 0.2 87.4 131.0#

89 0.0 37.0 55.4#



Abundance

Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

