

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110618\  
 Data File : VF060612.D  
 Acq On : 6 Nov 2018 14:33  
 Operator : VA/AP  
 Sample : VF1106SBS01  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Nov 06 14:16:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F110218S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 03 05:29:31 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.89  | 168  | 256335   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 5.61  | 114  | 469378   | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 9.79  | 117  | 398105   | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 12.56 | 152  | 219506   | 50.00 | ug/l  | 0.01     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 4.86   | 65  | 153078   | 59.11 | ug/l    | 0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 118.22% |      |
| 35) Dibromofluoromethane  | 4.13   | 113 | 181373   | 50.01 | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.02% |      |
| 50) Toluene-d8            | 7.57   | 98  | 531197   | 49.45 | ug/l    | 0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.90%  |      |
| 62) 4-Bromofluorobenzene  | 11.43  | 95  | 245627   | 52.27 | ug/l    | 0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.54% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.96 | 85  | 92454  | 33.170  | ug/l   | 99     |
| 3) Chloromethane              | 1.09 | 50  | 66583  | 29.679  | ug/l   | 100    |
| 4) Vinyl Chloride             | 1.15 | 62  | 58799  | 28.443  | ug/l   | 99     |
| 5) Bromomethane               | 1.32 | 94  | 29130  | 25.104  | ug/l   | 87     |
| 6) Chloroethane               | 1.38 | 64  | 19113  | 23.313  | ug/l   | 92     |
| 7) Trichlorofluoromethane     | 1.49 | 101 | 98777  | 25.529  | ug/l   | 92     |
| 8) Diethyl Ether              | 1.63 | 74  | 16480  | 22.981  | ug/l   | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.82 | 101 | 55632  | 25.161  | ug/l   | 99     |
| 10) Methyl Iodide             | 1.89 | 142 | 87137  | 23.949  | ug/l   | 95     |
| 11) Tert butyl alcohol        | 2.58 | 59  | 17041  | 122.172 | ug/l   | 94     |
| 12) 1,1-Dichloroethene        | 1.78 | 96  | 45635  | 24.506  | ug/l   | 90     |
| 13) Acrolein                  | 2.01 | 56  | 12496  | 131.070 | ug/l   | 99     |
| 14) Allyl chloride            | 2.10 | 41  | 79597  | 26.177  | ug/l   | 99     |
| 15) Acrylonitrile             | 2.96 | 53  | 36137  | 117.075 | ug/l   | 97     |
| 16) Acetone                   | 2.25 | 43  | 94843  | 155.407 | ug/l   | 100    |
| 17) Carbon Disulfide          | 1.83 | 76  | 132325 | 25.226  | ug/l   | 98     |
| 18) Methyl Acetate            | 2.35 | 43  | 23499  | 25.030  | ug/l # | 90     |
| 19) Methyl tert-butyl Ether   | 2.44 | 73  | 112212 | 25.777  | ug/l   | 95     |
| 20) Methylene Chloride        | 2.23 | 84  | 21782  | 7.379   | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 2.31 | 96  | 50066  | 25.627  | ug/l   | 96     |
| 22) Diisopropyl ether         | 2.81 | 45  | 159505 | 24.759  | ug/l   | 97     |
| 23) Vinyl Acetate             | 3.20 | 43  | 447781 | 115.683 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 2.88 | 63  | 90774  | 24.347  | ug/l   | 98     |
| 25) 2-Butanone                | 4.35 | 43  | 165808 | 128.925 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 3.62 | 77  | 67819  | 24.310  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 3.49 | 96  | 86358  | 23.155  | ug/l   | 95     |
| 28) Bromochloromethane        | 3.74 | 49  | 56534  | 24.162  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 4.09 | 42  | 62596  | 133.467 | ug/l   | 99     |
| 30) Chloroform                | 3.87 | 83  | 141263 | 23.948  | ug/l   | 96     |
| 31) Cyclohexane               | 3.72 | 56  | 119540 | 23.234  | ug/l   | 94     |
| 32) 1,1,1-Trichloroethane     | 4.11 | 97  | 103224 | 25.056  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 4.30 | 75  | 109040 | 21.098  | ug/l   | 95     |
| 37) Ethyl Acetate             | 4.13 | 43  | 53219  | 21.451  | ug/l   | 90     |
| 38) Carbon Tetrachloride      | 4.01 | 117 | 113381 | 25.674  | ug/l   | 98     |

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 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Nov 06 14:16:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F110218S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 03 05:29:31 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.47  | 83   | 141389   | 22.418  | ug/l   | 95       |
| 40) Benzene                    | 4.65  | 78   | 276869   | 22.070  | ug/l   | 98       |
| 41) Methacrylonitrile          | 4.76  | 41   | 29247    | 20.817  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 4.96  | 62   | 74954    | 20.817  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.98  | 43   | 65607    | 20.906  | ug/l # | 99       |
| 44) Trichloroethene            | 5.52  | 130  | 83265    | 22.085  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 6.25  | 63   | 76862    | 23.956  | ug/l   | 95       |
| 46) Dibromomethane             | 6.10  | 93   | 44408    | 21.817  | ug/l   | 89       |
| 47) Bromodichloromethane       | 6.40  | 83   | 110501   | 22.507  | ug/l   | 98       |
| 48) Methyl methacrylate        | 6.73  | 41   | 42780    | 21.691  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 6.71  | 88   | 7933     | 384.500 | ug/l # | 77       |
| 51) 4-Methyl-2-Pentanone       | 8.27  | 43   | 251926   | 119.379 | ug/l   | 99       |
| 52) Toluene                    | 7.64  | 92   | 163041   | 19.951  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 8.30  | 75   | 91007    | 21.328  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 7.32  | 75   | 114653   | 21.266  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 8.51  | 97   | 49760    | 20.925  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 8.64  | 69   | 60959    | 19.924  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 8.87  | 76   | 89651    | 21.486  | ug/l   | 94       |
| 58) 2-Chloroethyl Vinyl ether  | 7.64  | 63   | 22648    | 103.499 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.51  | 43   | 191398   | 124.077 | ug/l   | 99       |
| 60) Dibromochloromethane       | 8.74  | 129  | 64001    | 19.244  | ug/l   | 92       |
| 61) 1,2-Dibromoethane          | 9.00  | 107  | 55319    | 22.121  | ug/l   | 97       |
| 64) Tetrachloroethene          | 8.17  | 164  | 62972    | 20.183  | ug/l   | 93       |
| 65) Chlorobenzene              | 9.82  | 112  | 175442   | 21.550  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.95  | 131  | 72498    | 21.075  | ug/l   | 95       |
| 67) Ethyl Benzene              | 9.92  | 91   | 314336   | 21.277  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.15 | 106  | 249950   | 44.914  | ug/l   | 98       |
| 69) o-Xylene                   | 10.73 | 106  | 136521   | 22.466  | ug/l   | 89       |
| 70) Styrene                    | 10.81 | 104  | 189612   | 21.538  | ug/l   | 100      |
| 71) Bromoform                  | 10.79 | 173  | 38451    | 21.642  | ug/l # | 89       |
| 73) Isopropylbenzene           | 11.14 | 105  | 385903   | 22.542  | ug/l   | 96       |
| 74) N-amyl acetate             | 11.38 | 43   | 104527   | 22.110  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.71 | 83   | 80176    | 25.659  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.88 | 75   | 34705    | 22.600  | ug/l   | 94       |
| 77) Bromobenzene               | 11.51 | 156  | 81929    | 21.872  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.61 | 91   | 442188   | 22.077  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.74 | 91   | 262044   | 22.909  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.83 | 105  | 308462   | 21.860  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-buten | 11.88 | 75   | 34705    | 28.757  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 11.91 | 91   | 266154   | 22.302  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.14 | 119  | 325044   | 22.549  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene     | 12.22 | 105  | 308706   | 22.340  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 12.32 | 105  | 449076   | 22.646  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 12.48 | 119  | 367619   | 22.512  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.48 | 146  | 162295   | 22.074  | ug/l   | 94       |
| 88) 1,4-Dichlorobenzene        | 12.58 | 146  | 155156   | 22.249  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.86 | 91   | 368067   | 20.669  | ug/l   | 95       |
| 90) Hexachloroethane           | 12.93 | 117  | 90567    | 21.809  | ug/l   | 81       |
| 91) 1,2-Dichlorobenzene        | 12.96 | 146  | 159408   | 23.175  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.66 | 75   | 12820    | 23.615  | ug/l   | 92       |

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Operator : VA/AP  
Sample : VF1106SBS01  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :

Quant Time: Nov 06 14:16:55 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F110218S.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 03 05:29:31 2018  
Response via : Initial Calibration

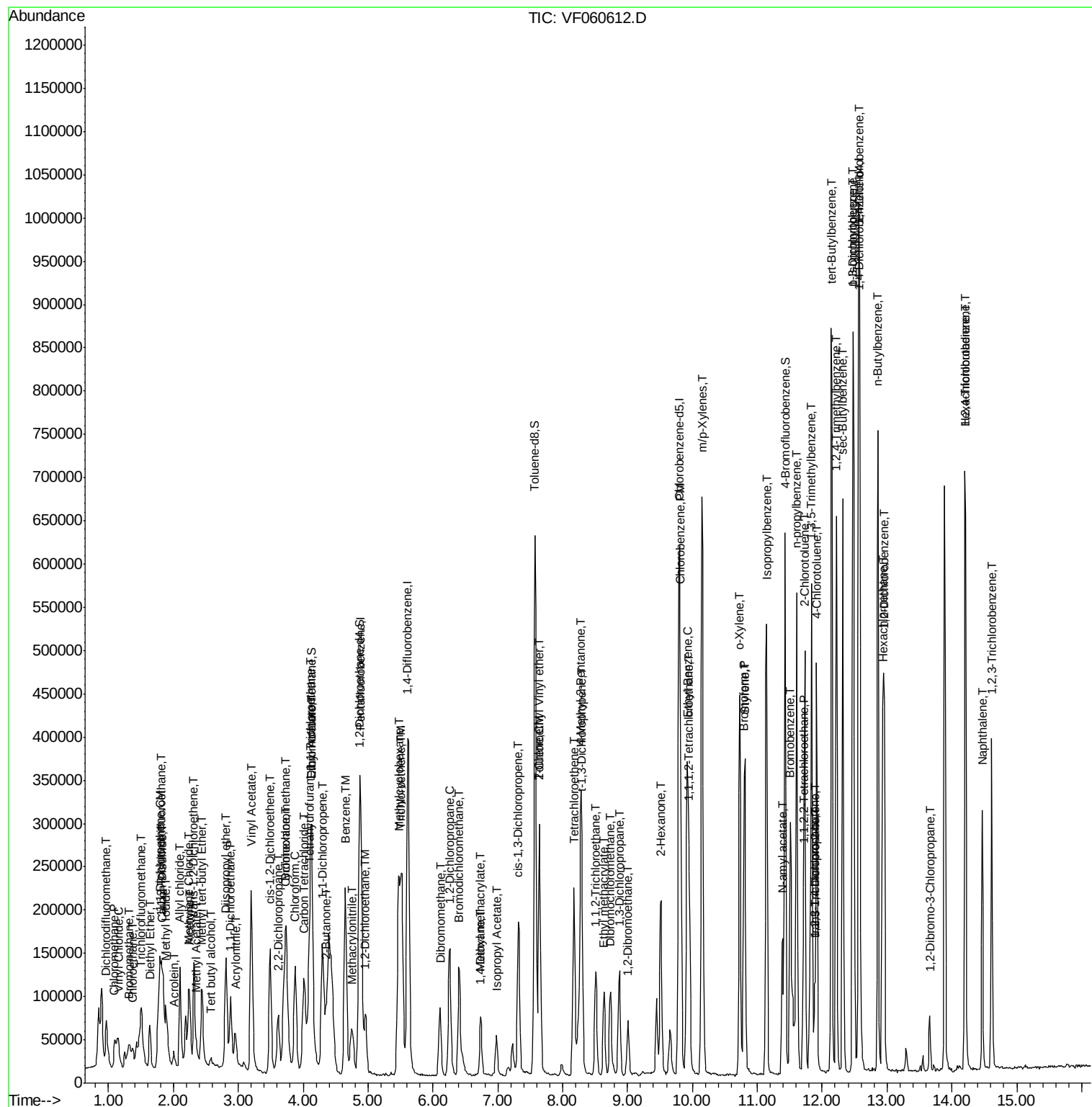
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.21 | 180  | 110285   | 23.601 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 14.20 | 225  | 66636    | 22.007 | ug/l  | 96       |
| 95) Naphthalene            | 14.47 | 128  | 202759   | 21.679 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.62 | 180  | 100008   | 22.656 | ug/l  | 96       |

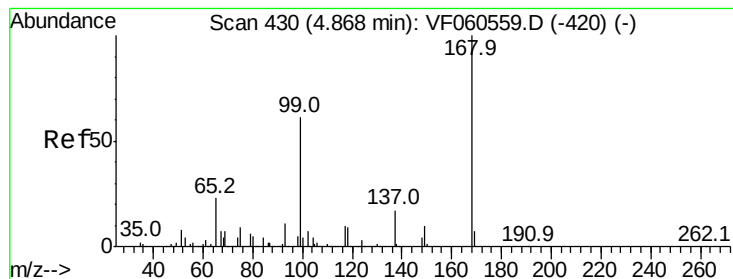
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 MSVOA\_F  
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Quant Time: Nov 06 14:16:55 2018  
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 Quant Title : SW846 8260  
 QLast Update : Sat Nov 03 05:29:31 2018  
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

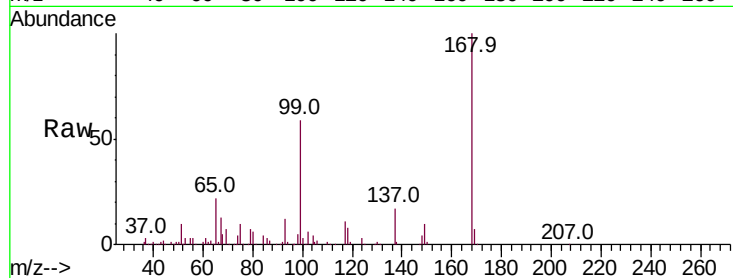
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion:168 Resp: 256335

Ion Ratio Lower Upper

168 100

99 59.2 48.6 72.8

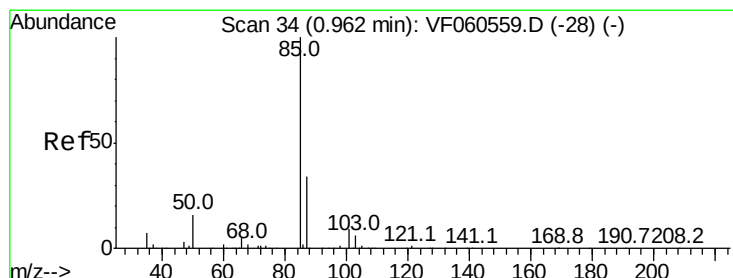
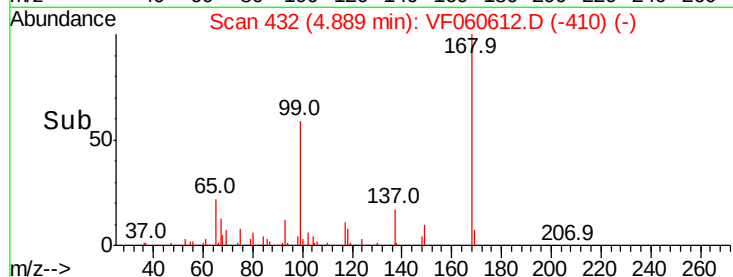


Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

Time-->



#2

Dichlorodifluoromethane

Concen: 33.170 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060612.D

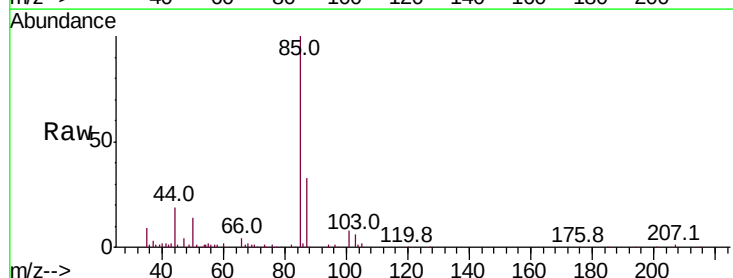
Acq: 6 Nov 2018 14:33

Tgt Ion: 85 Resp: 92454

Ion Ratio Lower Upper

85 100

87 33.1 16.9 50.7

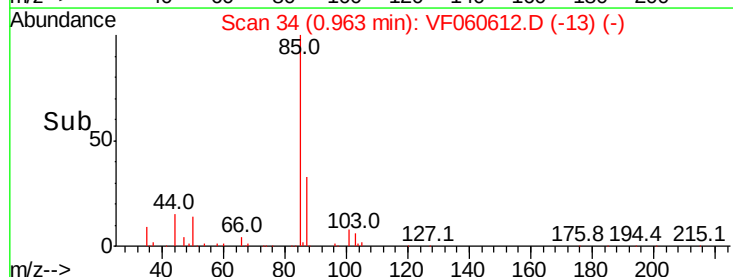


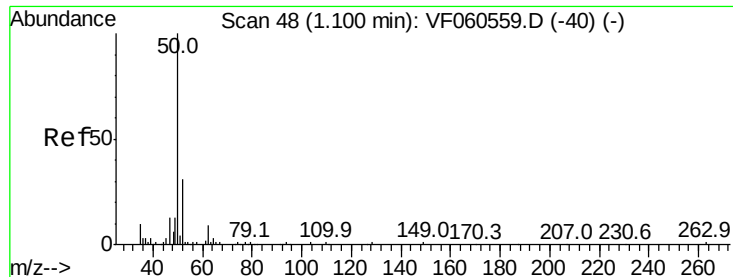
Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

Time-->





#3

Chloromethane

Concen: 29.679 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

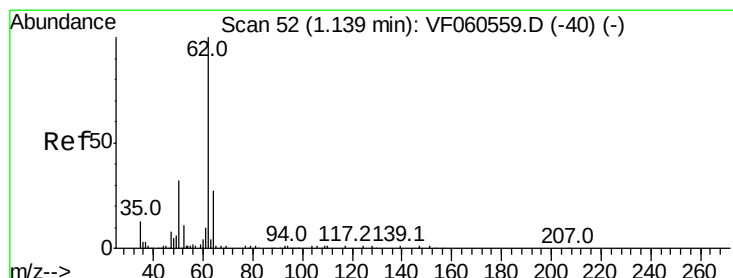
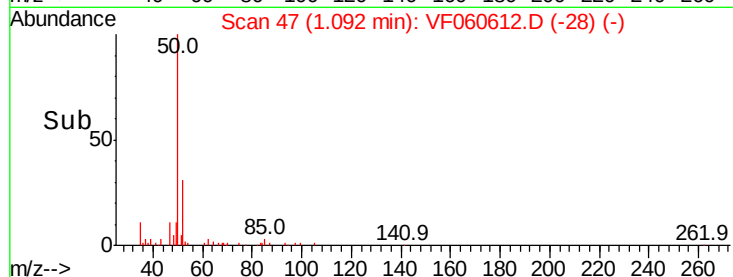
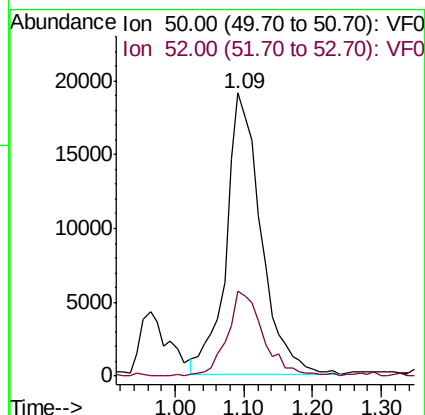
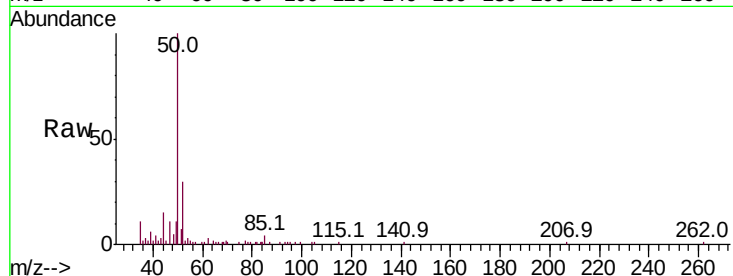
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 50 Resp: 66583

Ion Ratio Lower Upper

50 100

52 30.2 24.0 36.0



#4

Vinyl Chloride

Concen: 28.443 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.01 min

Lab File: VF060612.D

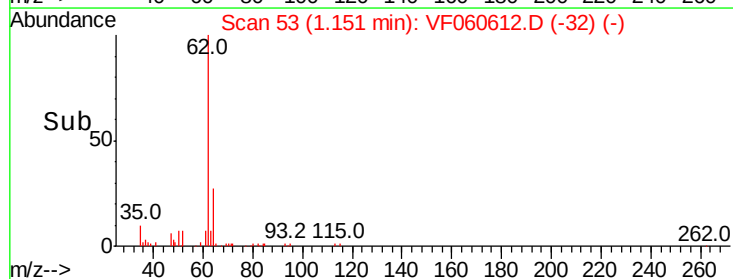
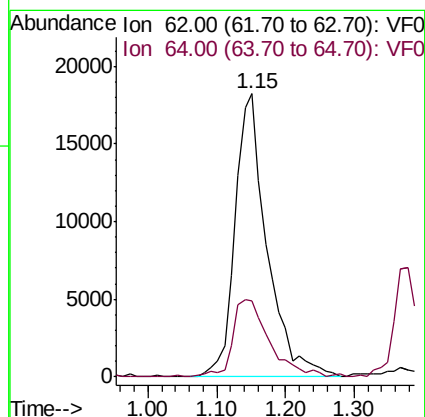
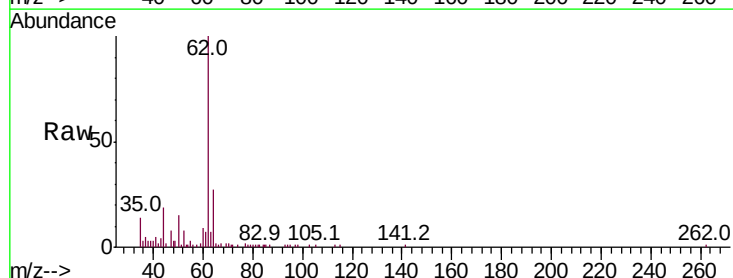
Acq: 6 Nov 2018 14:33

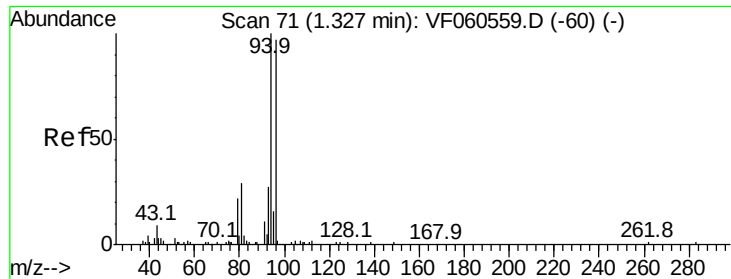
Tgt Ion: 62 Resp: 58799

Ion Ratio Lower Upper

62 100

64 26.8 21.8 32.6





#5

Bromomethane

Concen: 25.104 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

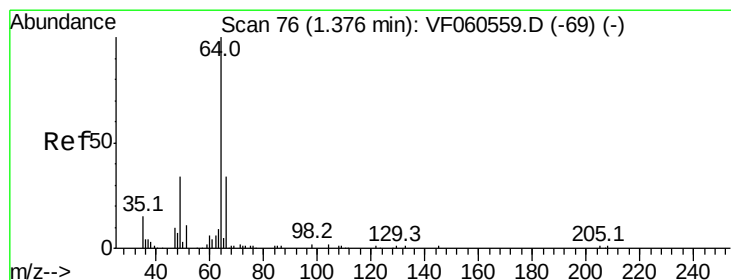
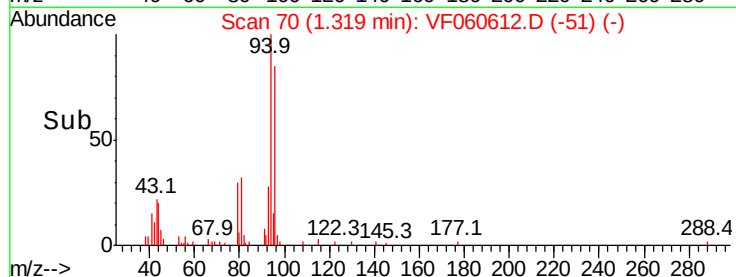
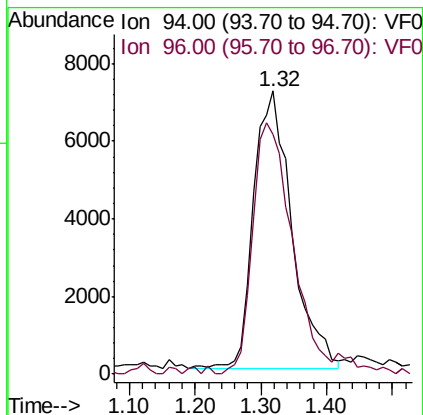
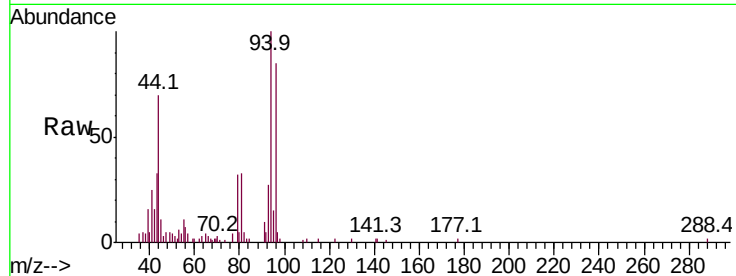
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 94 Resp: 29130

Ion Ratio Lower Upper

94 100

96 84.5 77.9 116.9



#6

Chloroethane

Concen: 23.313 ug/l

RT: 1.38 min Scan# 76

Delta R.T. 0.00 min

Lab File: VF060612.D

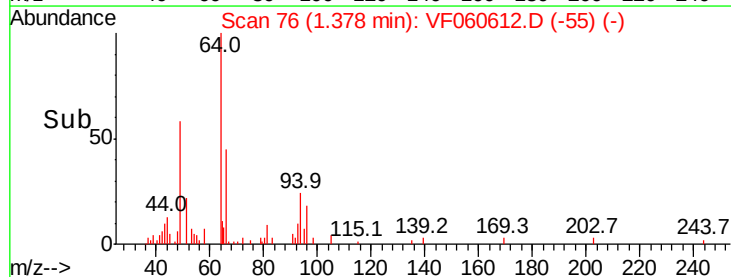
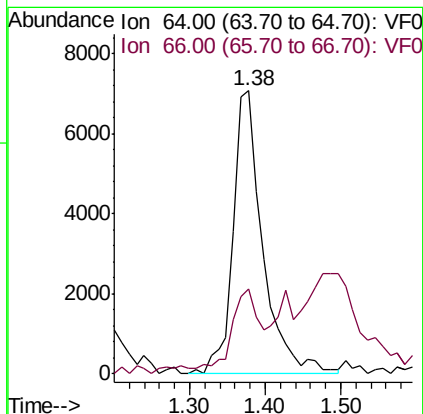
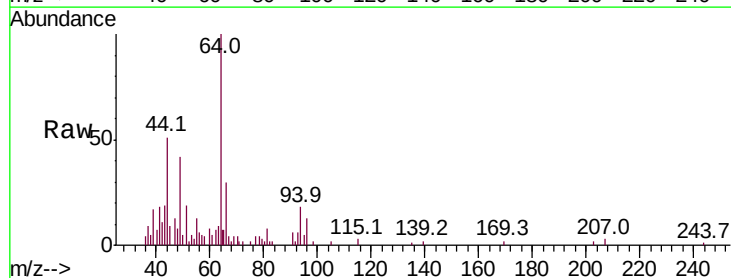
Acq: 6 Nov 2018 14:33

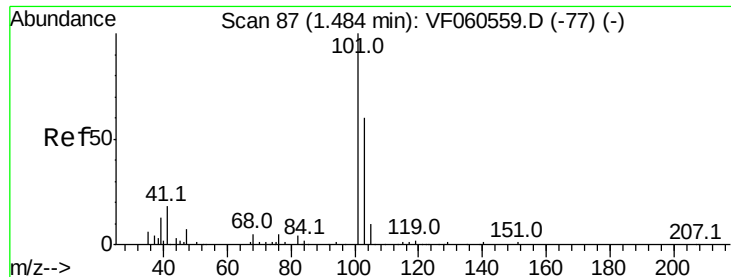
Tgt Ion: 64 Resp: 19113

Ion Ratio Lower Upper

64 100

66 30.1 27.8 41.8





#7

Trichlorofluoromethane

Concen: 25.529 ug/l

RT: 1.49 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

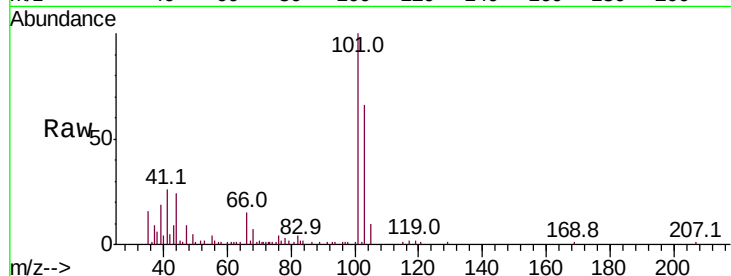
ClientSampleId :

Tot Ion:101 Resp: 98777

Ion Ratio Lower Upper

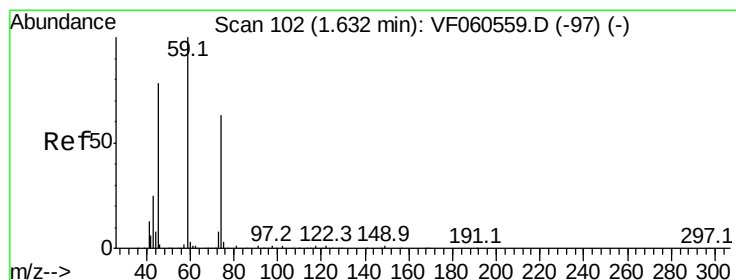
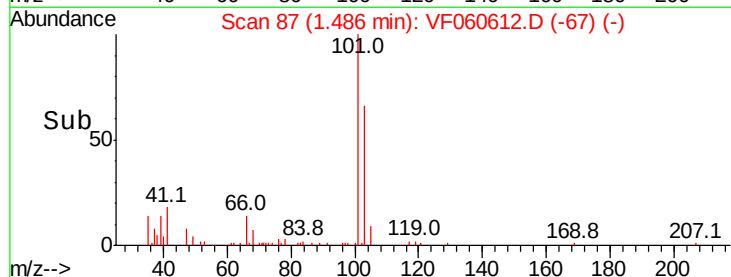
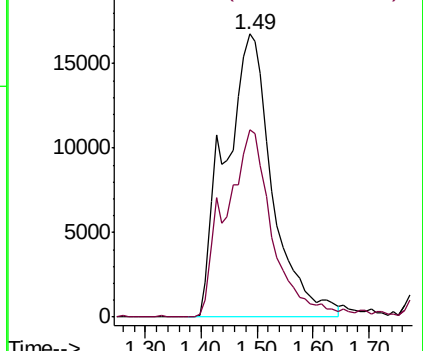
101 100

103 66.1 48.0 72.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 22.981 ug/l

RT: 1.63 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF060612.D

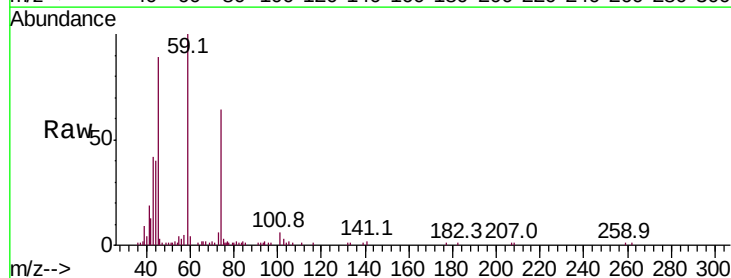
Acq: 6 Nov 2018 14:33

Tgt Ion: 74 Resp: 16480

Ion Ratio Lower Upper

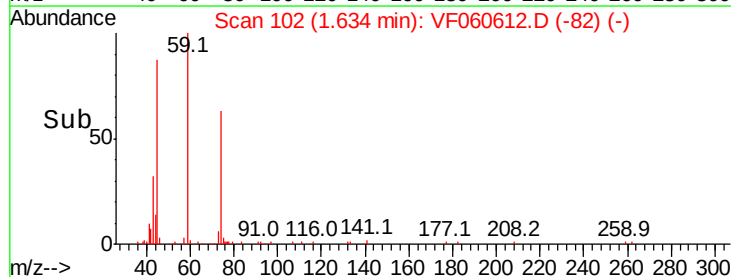
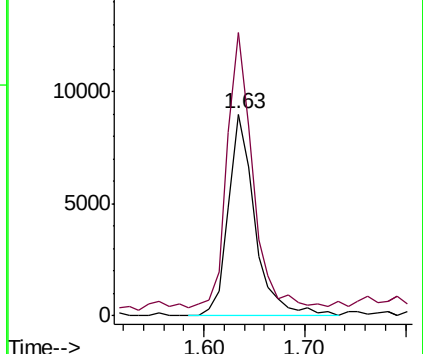
74 100

45 140.3 63.8 191.5

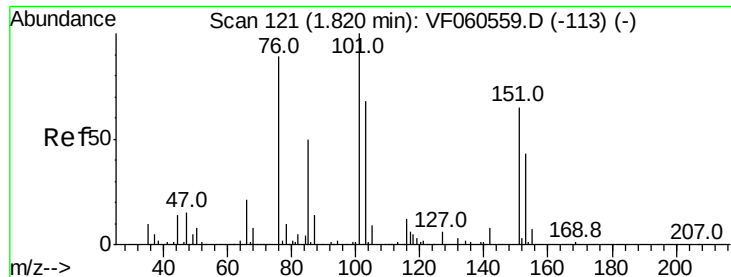


Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0







#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.161 ug/l

RT: 1.82 min Scan# 121

Delta R.T. 0.00 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

ClientSampled :

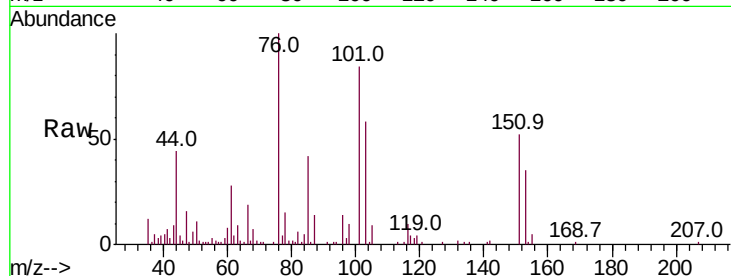
Tot Ion:101 Resp: 55632

Ion Ratio Lower Upper

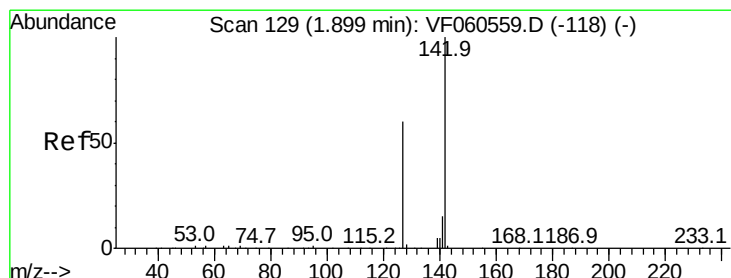
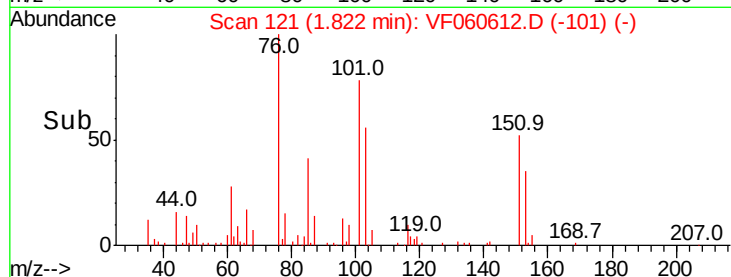
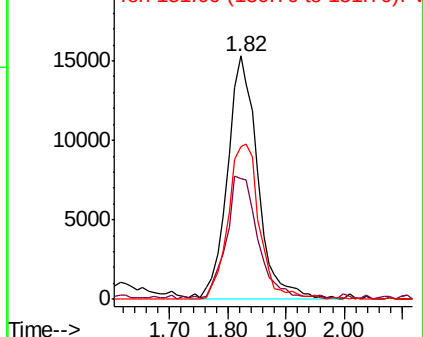
101 100

85 49.7 39.8 59.6

151 62.5 50.8 76.2



Abundance Ion 101.00 (100.70 to 101.70): V  
Ion 85.00 (84.70 to 85.70): VF0  
Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 23.949 ug/l

RT: 1.89 min Scan# 128

Delta R.T. -0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

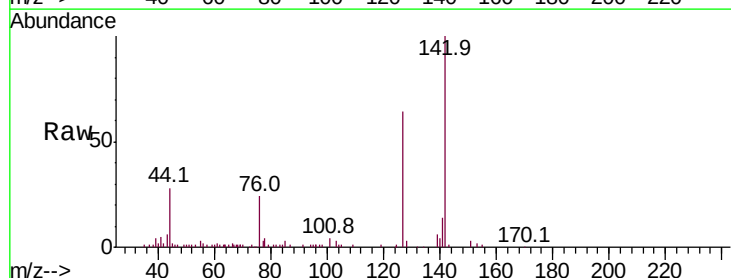
Tgt Ion:142 Resp: 87137

Ion Ratio Lower Upper

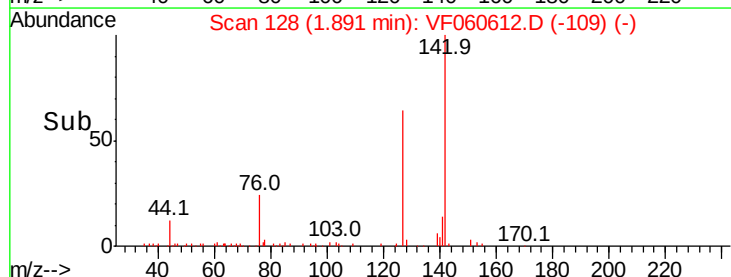
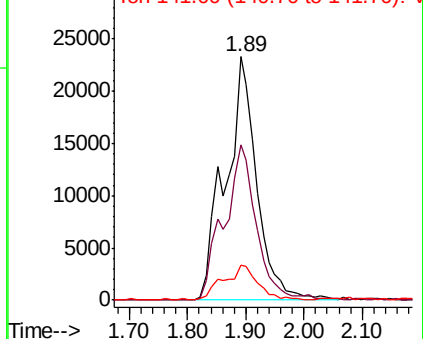
142 100

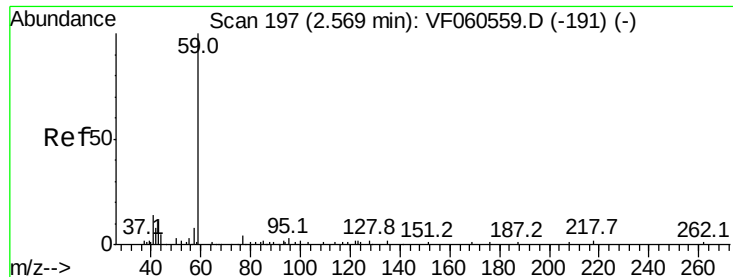
127 63.5 47.8 71.6

141 14.5 12.7 19.1



Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 141.00 (140.70 to 141.70): V



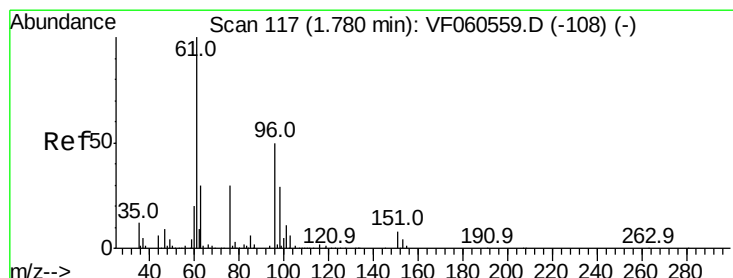
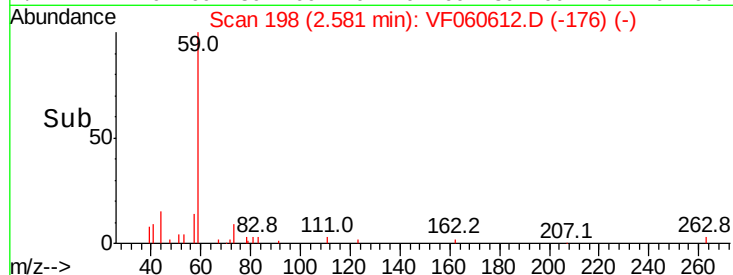
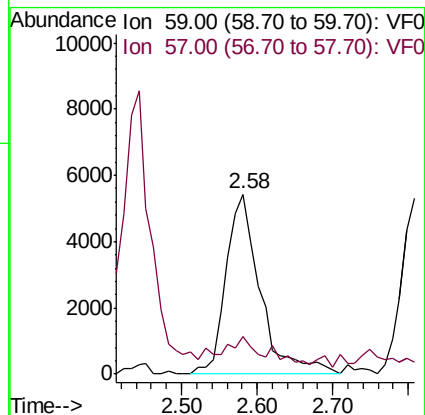
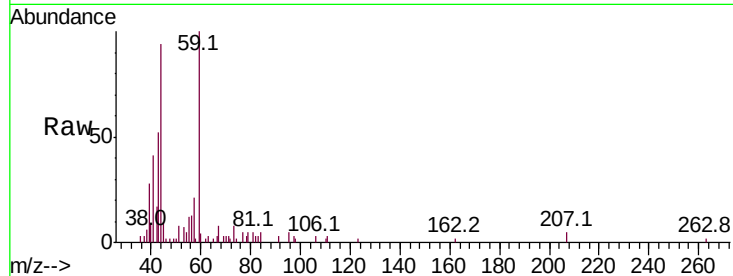


#11

Tert butyl alcohol  
Concen: 122.172 ug/l  
RT: 2.58 min Scan# 198  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Instrument :  
MSVOA\_F  
ClientSampled :

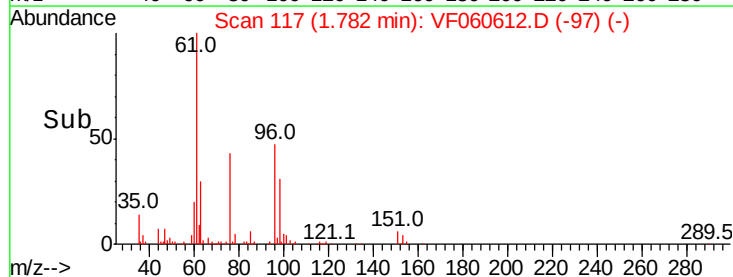
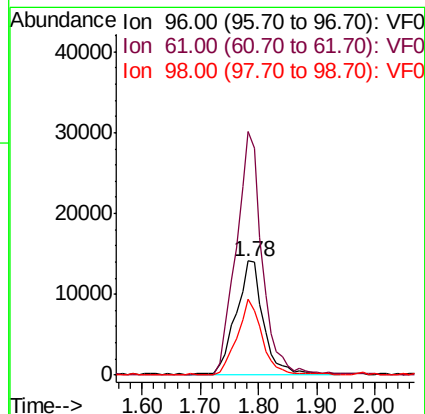
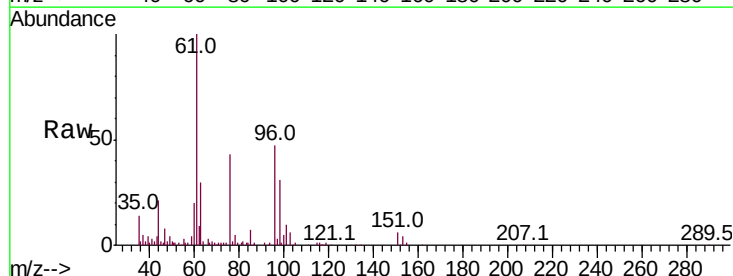
Tot Ion: 59 Resp: 17041  
Ion Ratio Lower Upper  
59 100  
57 20.7 19.0 28.4

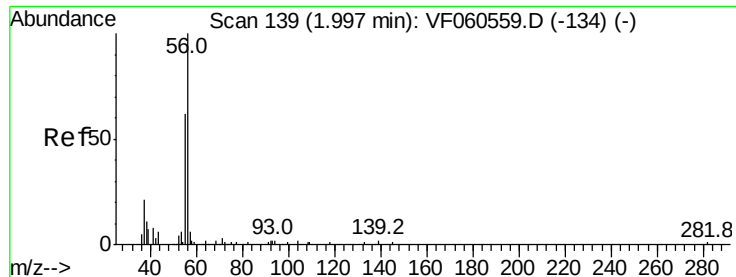


#12

1,1-Dichloroethene  
Concen: 24.506 ug/l  
RT: 1.78 min Scan# 117  
Delta R.T. 0.00 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Tgt Ion: 96 Resp: 45635  
Ion Ratio Lower Upper  
96 100  
61 213.1 158.1 237.1  
98 67.0 47.0 70.6





#13

Acrolein

Concen: 131.070 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

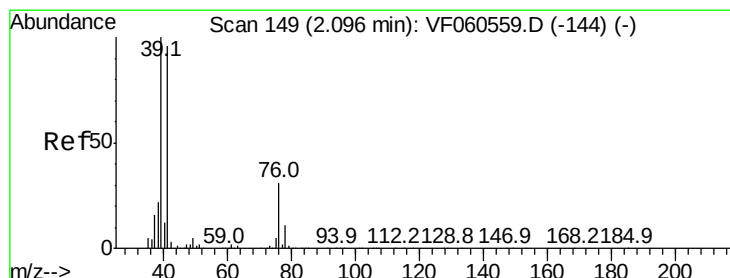
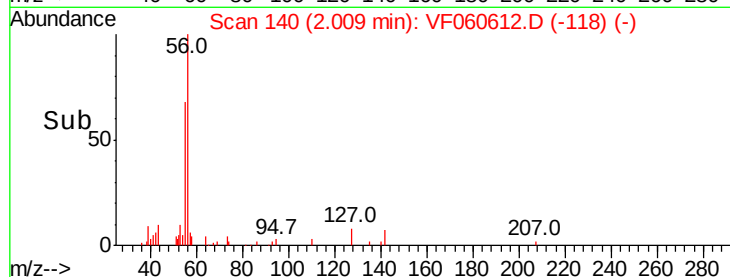
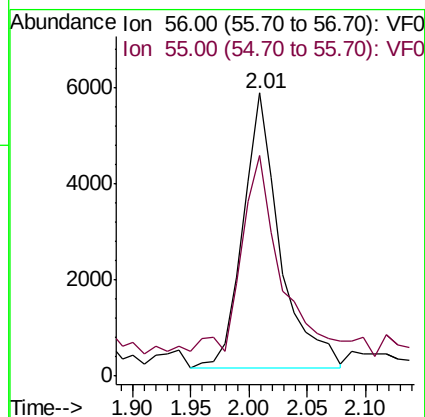
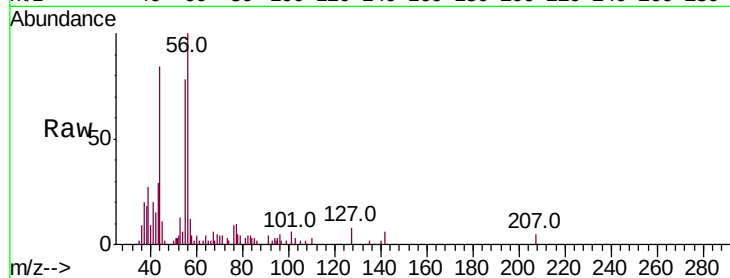
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 56 Resp: 12496

Ion Ratio Lower Upper

56 100

55 77.7 61.8 92.6



#14

Allyl chloride

Concen: 26.177 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

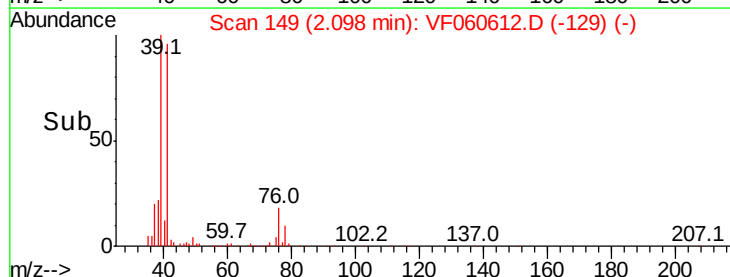
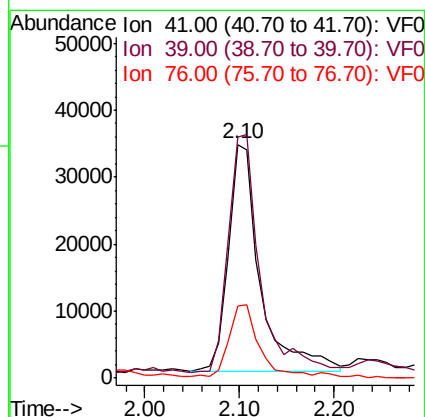
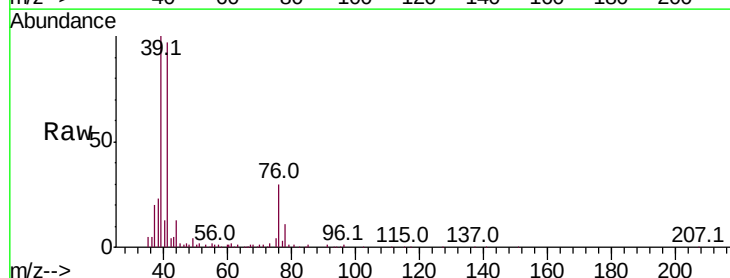
Tgt Ion: 41 Resp: 79597

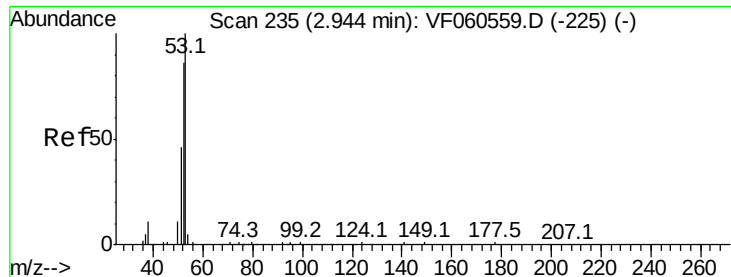
Ion Ratio Lower Upper

41 100

39 103.5 82.6 124.0

76 31.0 26.7 40.1





#15

Acrylonitrile

Concen: 117.075 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

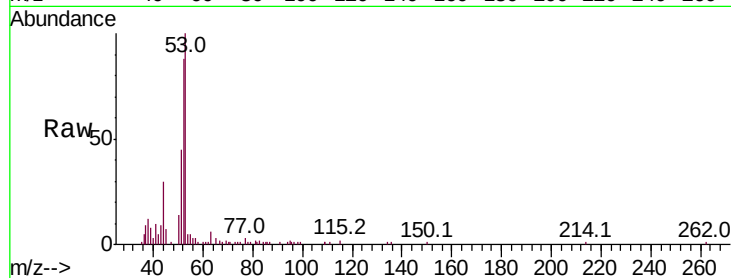
Instrument :

MSVOA\_F

ClientSampleId :

Tot Ion: 53 Resp: 36137

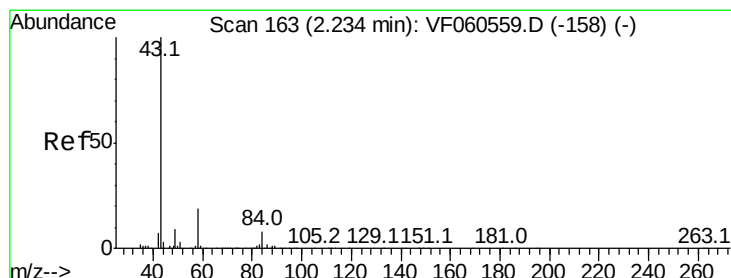
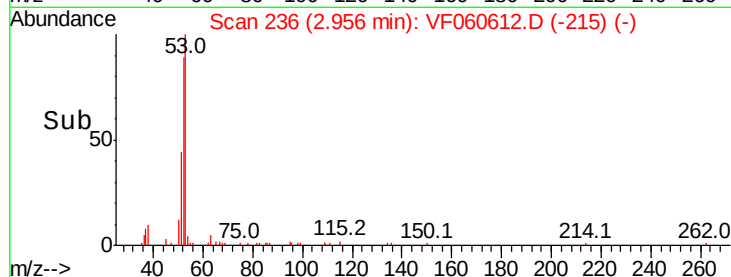
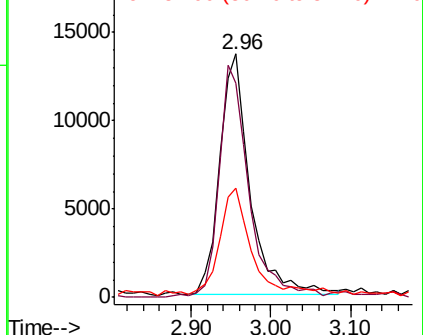
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 53  | 100   |       |       |
| 52  | 87.9  | 68.5  | 102.7 |
| 51  | 44.6  | 38.2  | 57.2  |



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 155.407 ug/l

RT: 2.25 min Scan# 164

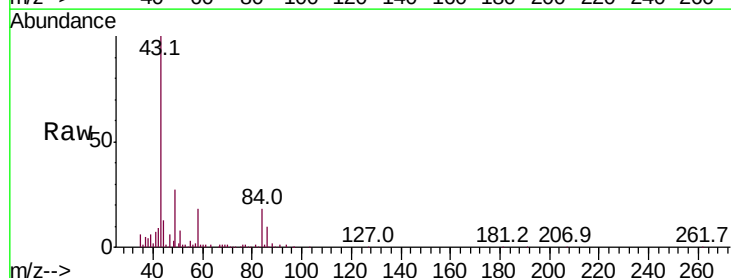
Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

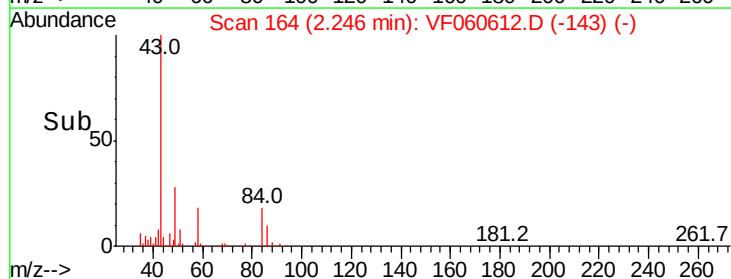
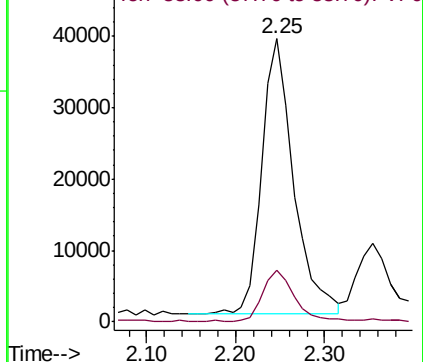
Tgt Ion: 43 Resp: 94843

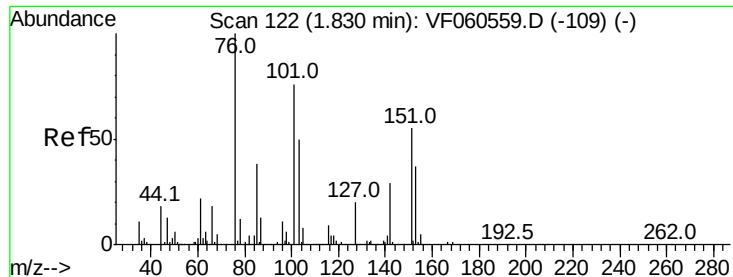
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 18.1  | 14.6  | 22.0  |



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 25.226 ug/l

RT: 1.83 min Scan# 122

Delta R.T. 0.00 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

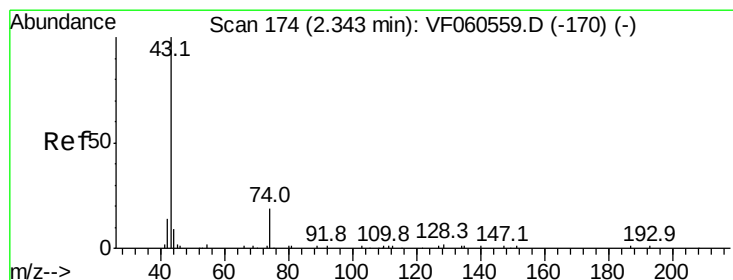
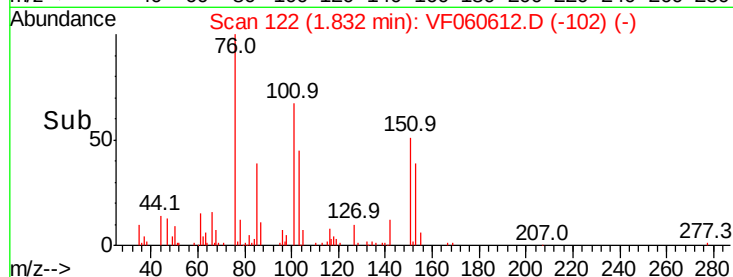
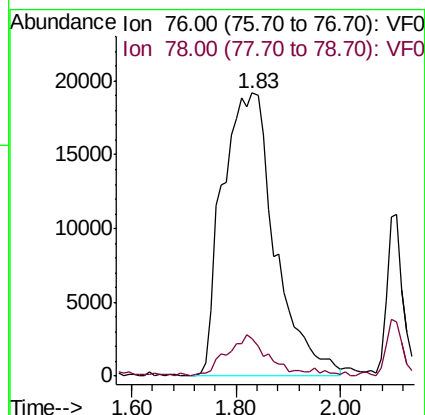
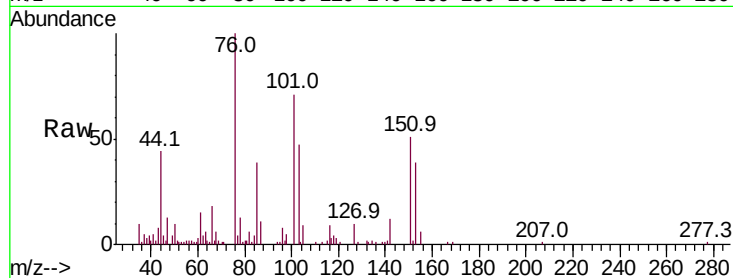
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 76 Resp: 132325

Ion Ratio Lower Upper

76 100

78 13.1 9.9 14.9



#18

Methyl Acetate

Concen: 25.030 ug/l

RT: 2.35 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF060612.D

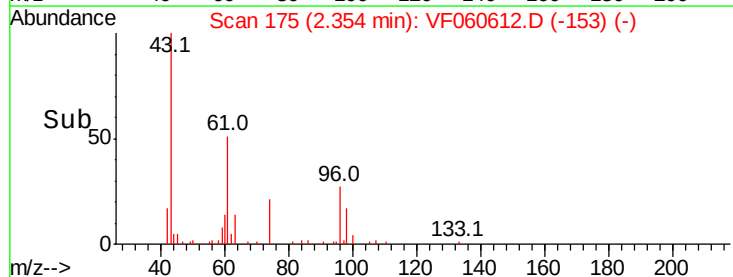
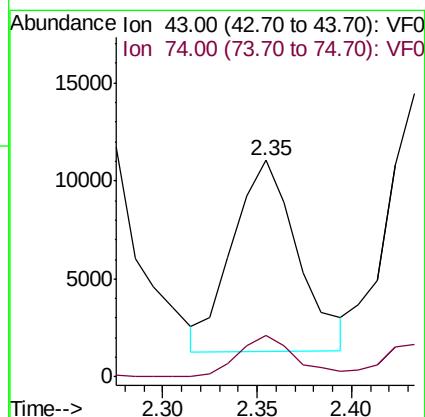
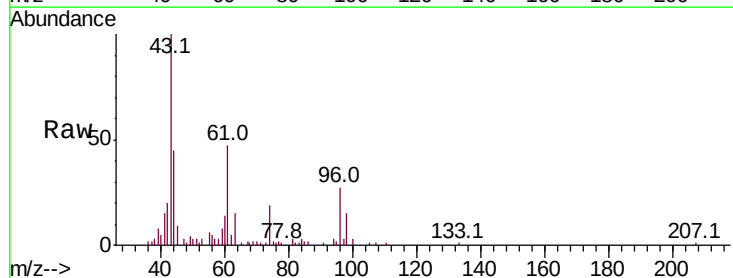
Acq: 6 Nov 2018 14:33

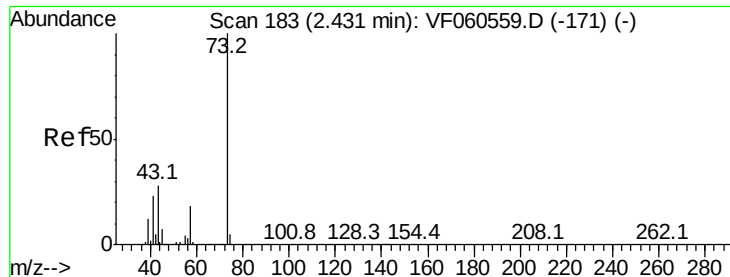
Tgt Ion: 43 Resp: 23499

Ion Ratio Lower Upper

43 100

74 19.1 12.1 18.1#





#19

Methyl tert-butyl Ether

Concen: 25.777 ug/l

RT: 2.44 min Scan# 184

Delta R.T. 0.01 min

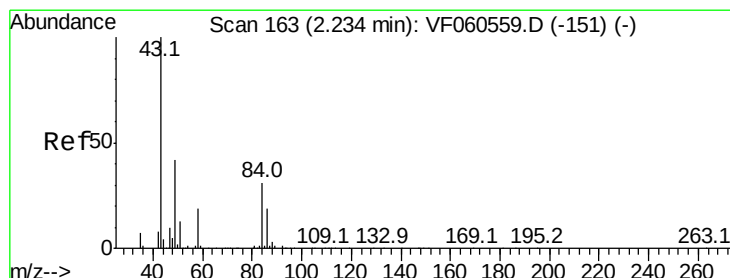
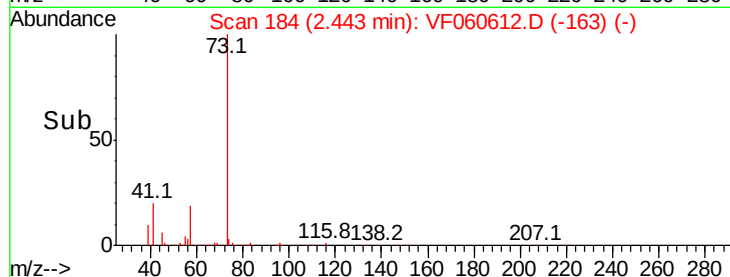
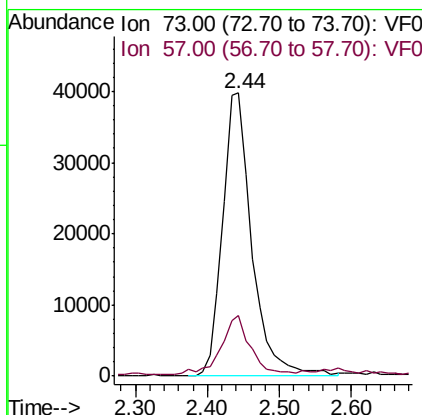
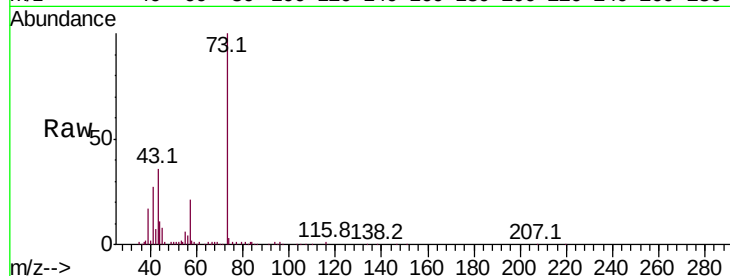
Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 73 Resp: 112212

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 21.5  | 15.4  | 23.0  |



#20

Methylene Chloride

Concen: 7.379 ug/l

RT: 2.23 min Scan# 162

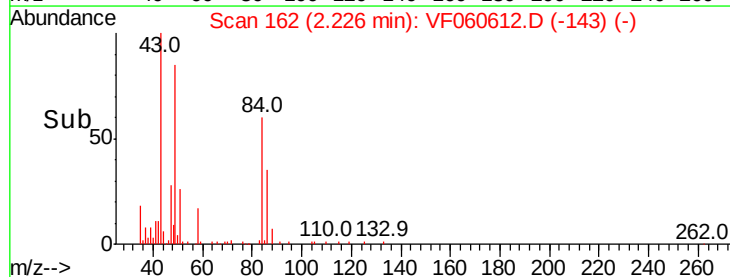
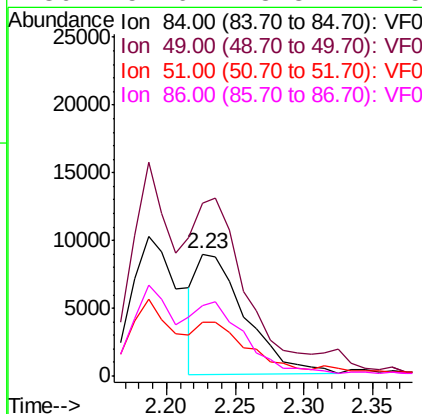
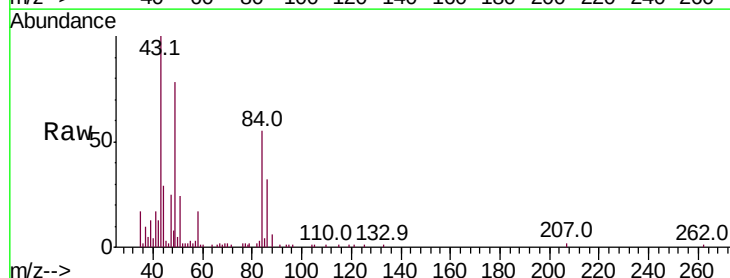
Delta R.T. -0.01 min

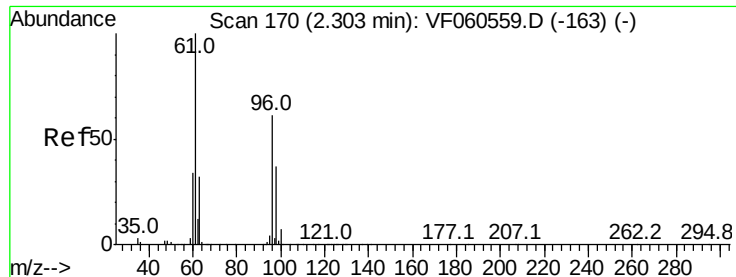
Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Tgt Ion: 84 Resp: 21782

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 141.6 | 109.9 | 164.9 |
| 51  | 44.5  | 35.8  | 53.8  |
| 86  | 57.6  | 48.3  | 72.5  |





#21

trans-1,2-Dichloroethene

Concen: 25.627 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :  
MSVOA\_F  
ClientSampleId :

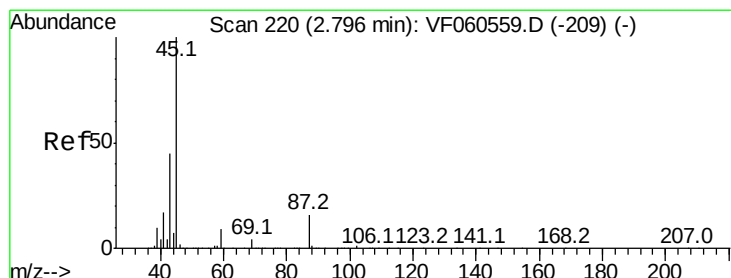
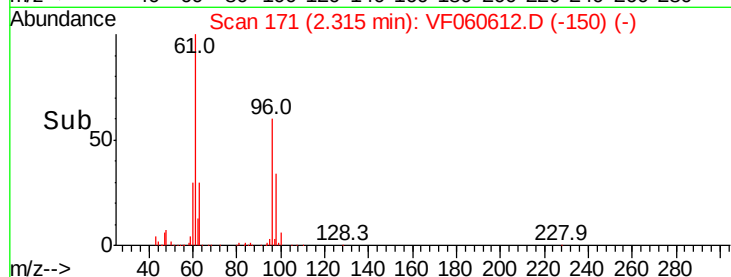
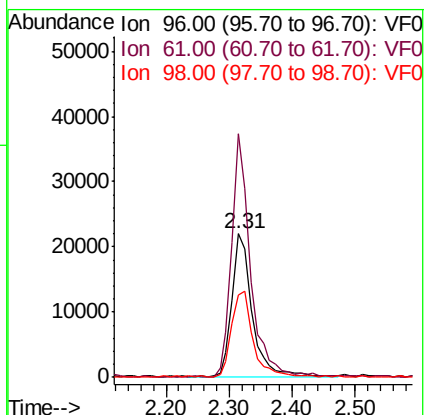
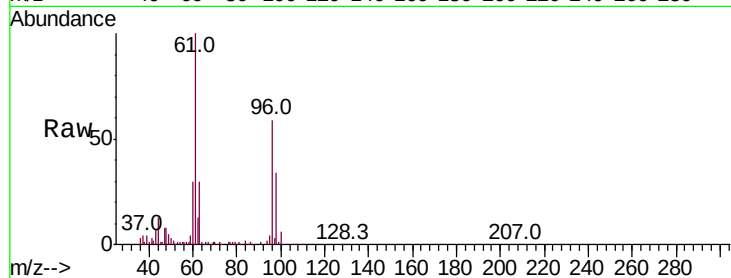
Tot Ion: 96 Resp: 50066

Ion Ratio Lower Upper

96 100

61 169.6 131.3 196.9

98 57.6 48.6 73.0



#22

Diisopropyl ether

Concen: 24.759 ug/l

RT: 2.81 min Scan# 221

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Tgt Ion: 45 Resp: 159505

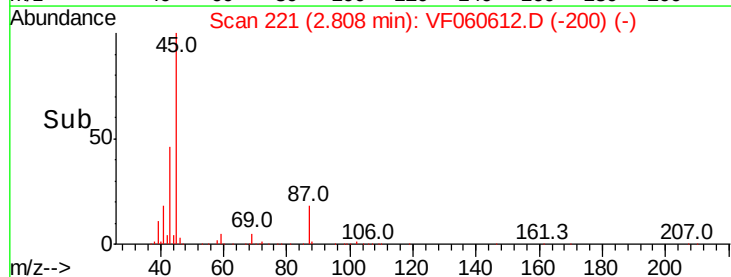
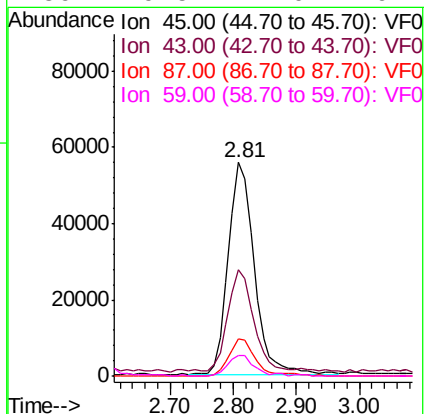
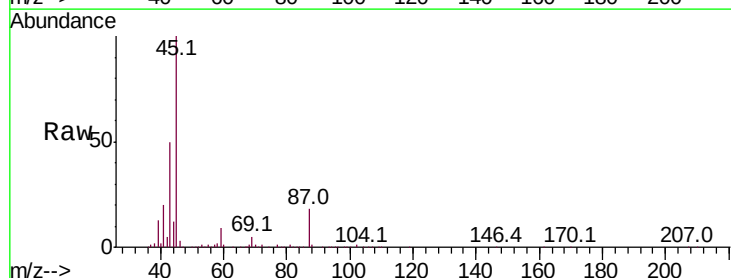
Ion Ratio Lower Upper

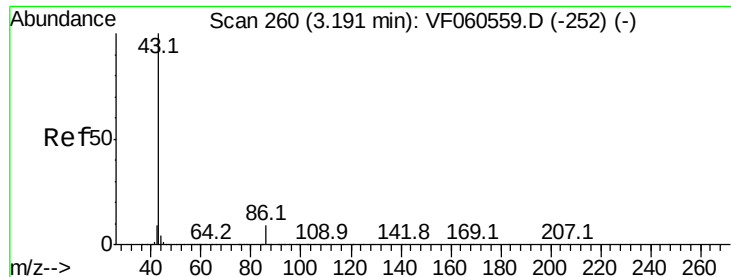
45 100

43 49.5 38.1 57.1

87 17.6 12.7 19.1

59 9.5 7.0 10.4





#23

Vinyl Acetate

Concen: 115.683 ug/l

RT: 3.20 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

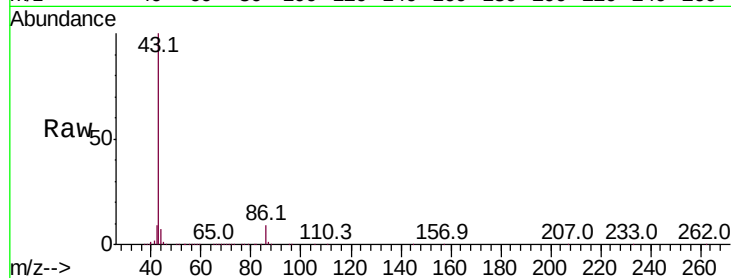
ClientSampled :

Tot Ion: 43 Resp: 447781

Ion Ratio Lower Upper

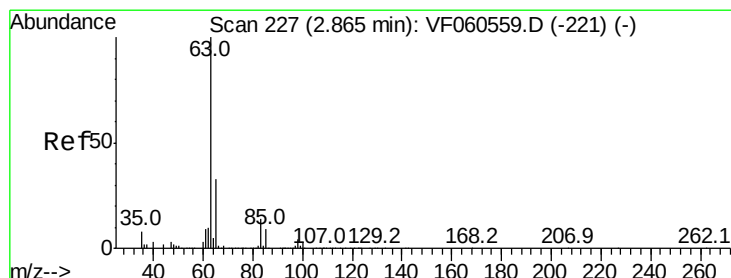
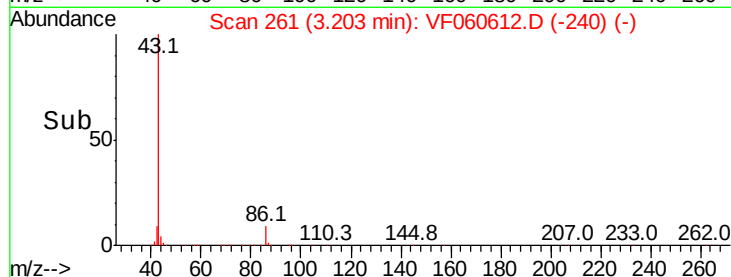
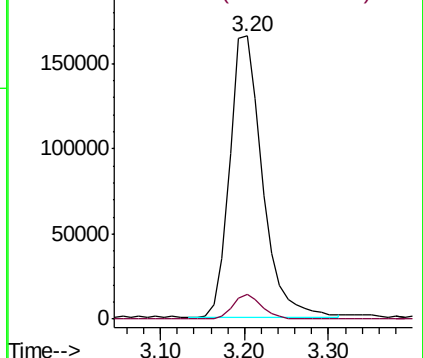
43 100

86 8.9 7.1 10.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 24.347 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

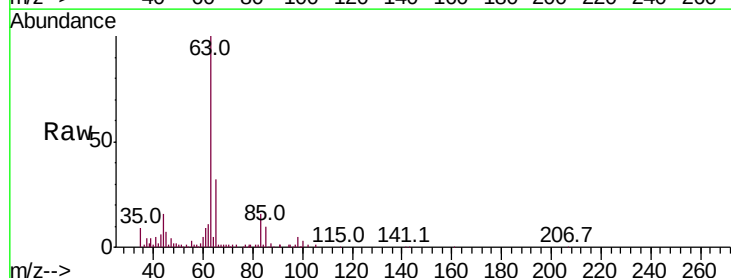
Tgt Ion: 63 Resp: 90774

Ion Ratio Lower Upper

63 100

98 5.1 2.2 6.6

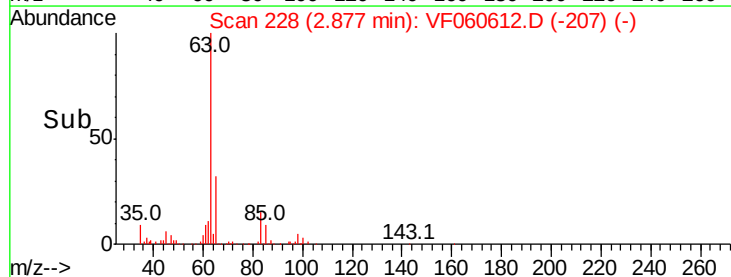
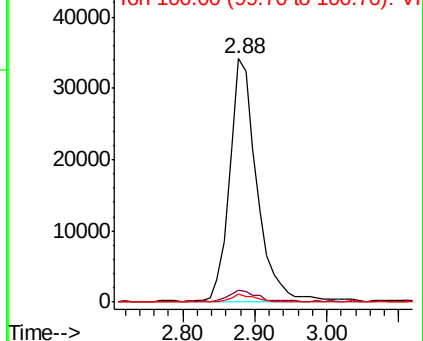
100 3.4 1.4 4.0



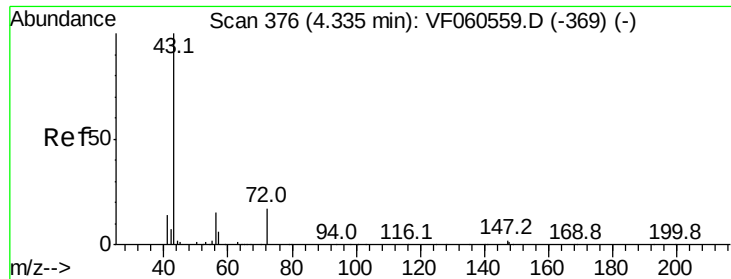
Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



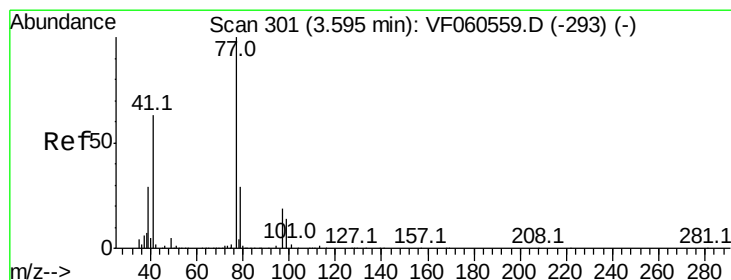
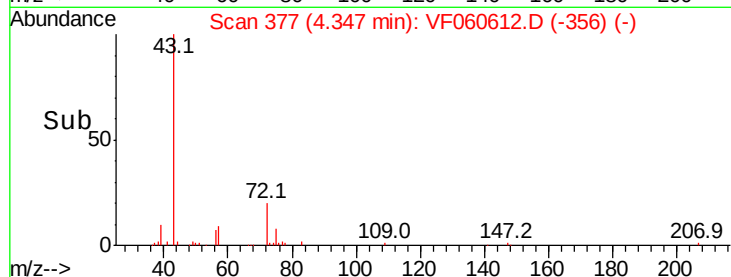
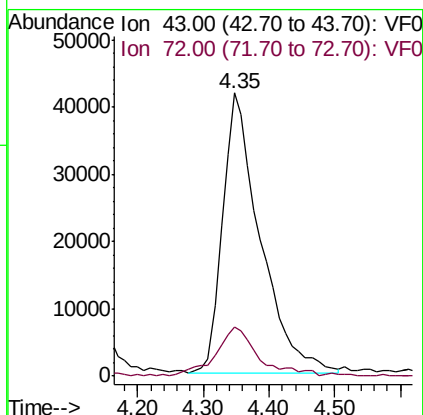
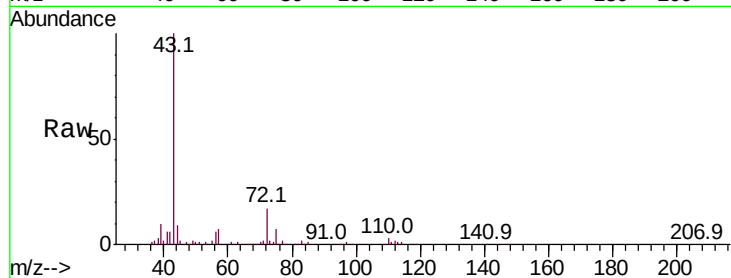




#25  
2-Butanone  
Concen: 128.925 ug/l  
RT: 4.35 min Scan# 377  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

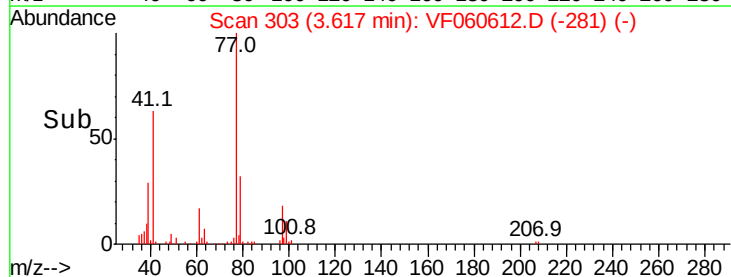
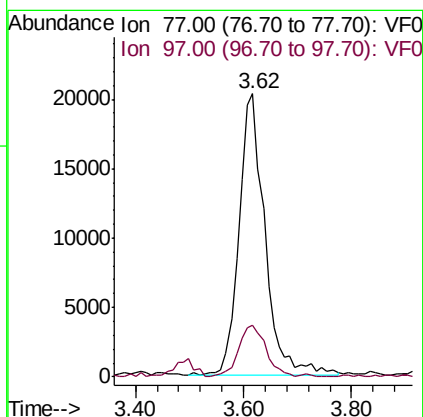
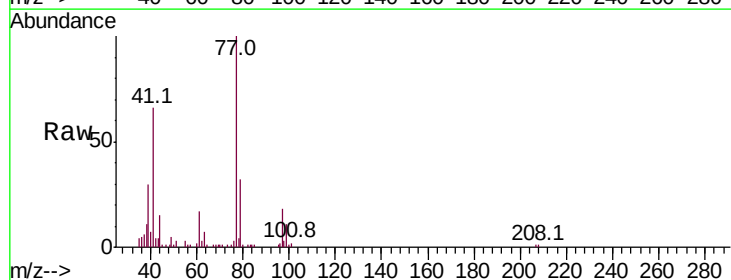
Instrument :  
MSVOA\_F  
ClientSampled :

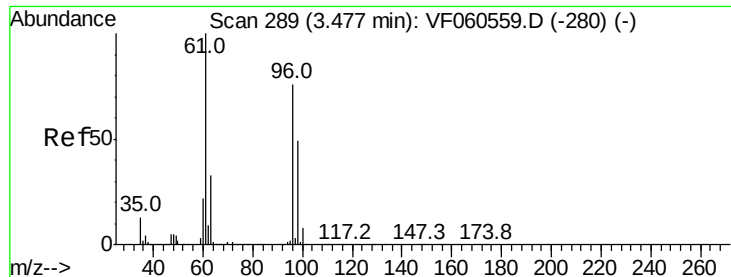
Tot Ion: 43 Resp: 165808  
Ion Ratio Lower Upper  
43 100  
72 17.5 16.2 24.2



#26  
2,2-Dichloropropane  
Concen: 24.310 ug/l  
RT: 3.62 min Scan# 303  
Delta R.T. 0.02 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Tgt Ion: 77 Resp: 67819  
Ion Ratio Lower Upper  
77 100  
97 18.2 9.8 29.3



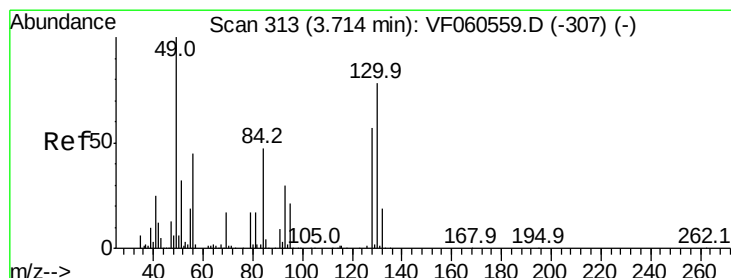
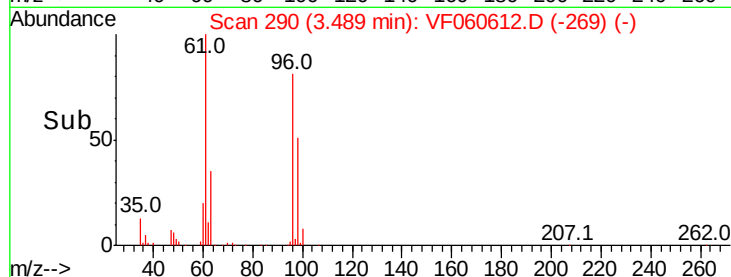
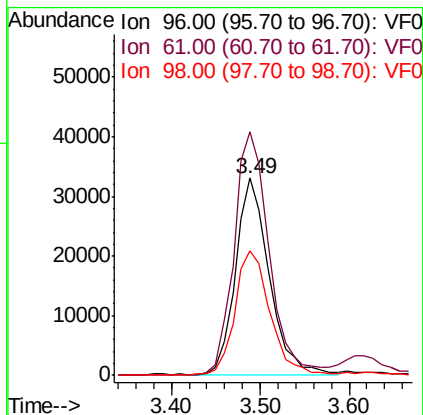
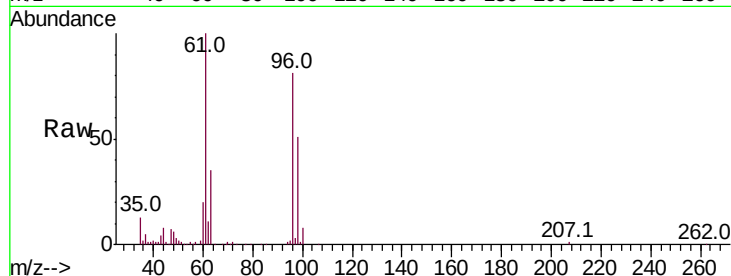


#27

cis-1,2-Dichloroethene  
Concen: 23.155 ug/l  
RT: 3.49 min Scan# 290  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Instrument :  
MSVOA\_F  
ClientSampled :

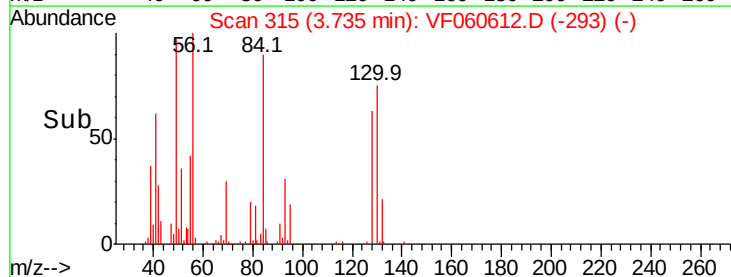
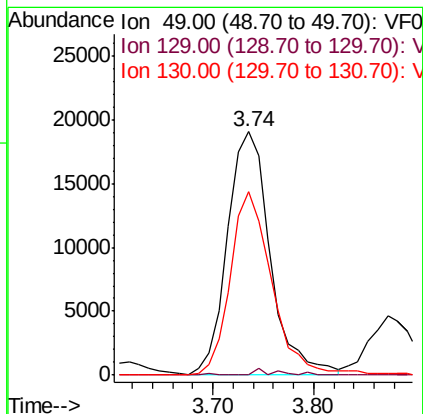
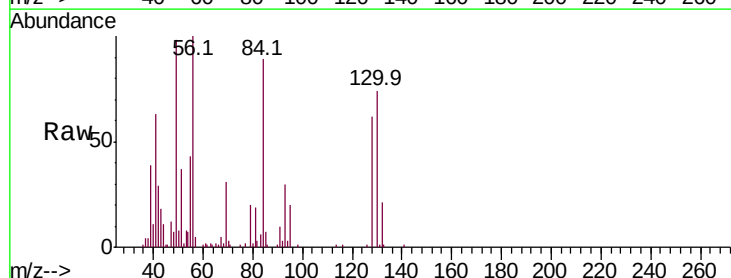
| Tot Ion | 96    | Resp  | 86358 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 96      | 100   |       |       |
| 61      | 123.6 | 0.0   | 263.0 |
| 98      | 63.3  | 0.0   | 130.6 |

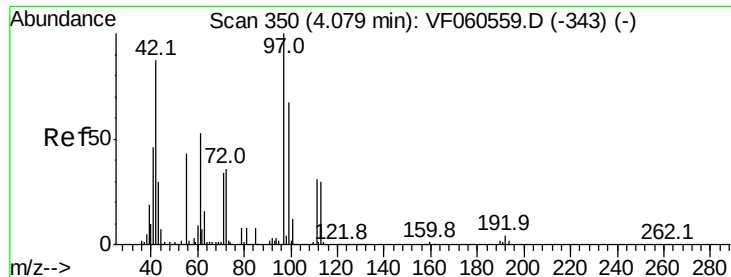


#28

Bromochloromethane  
Concen: 24.162 ug/l  
RT: 3.74 min Scan# 315  
Delta R.T. 0.02 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

| Tgt Ion | 49    | Resp  | 56534 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 49      | 100   |       |       |
| 129     | 0.0   | 0.0   | 4.6   |
| 130     | 75.3  | 61.8  | 92.8  |





#29

Tetrahydrofuran

Concen: 133.467 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.01 min

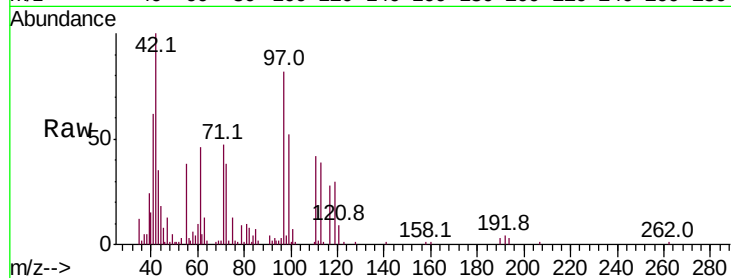
Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 42 Resp: 62596

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 38.5  | 31.4  | 47.0  |
| 71  | 39.9  | 31.8  | 47.6  |

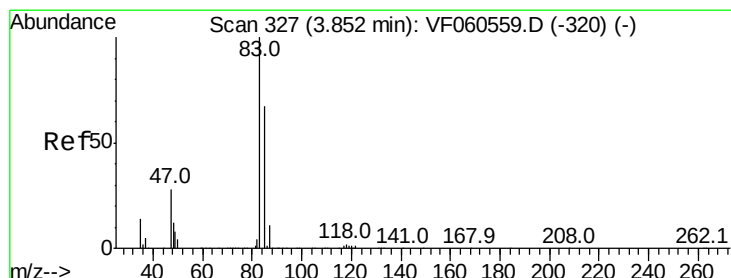
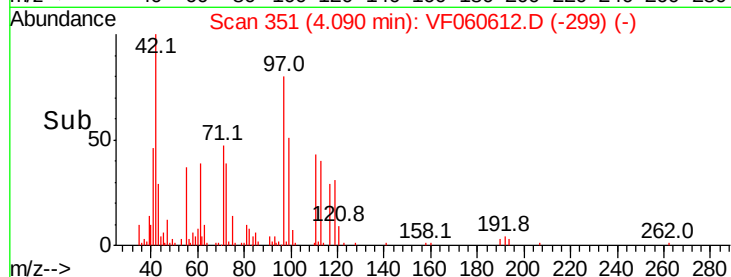
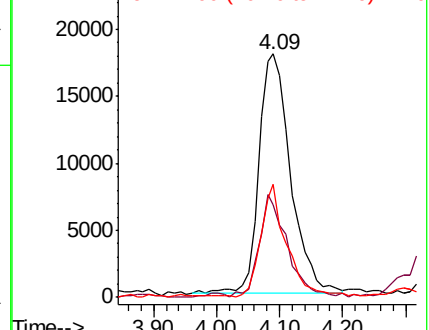


Abundance

Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 23.948 ug/l

RT: 3.87 min Scan# 329

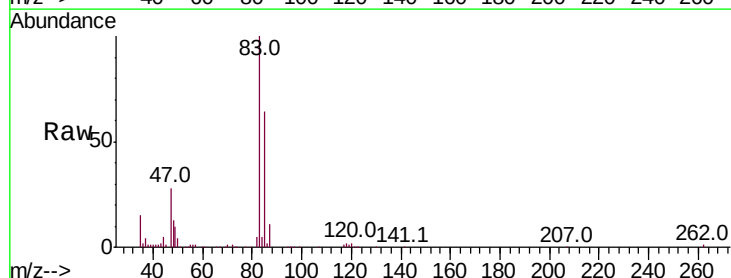
Delta R.T. 0.02 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Tgt Ion: 83 Resp: 141263

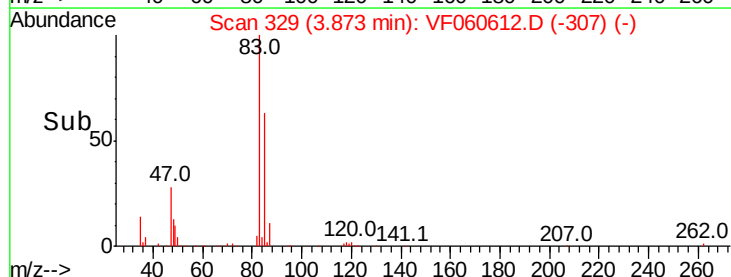
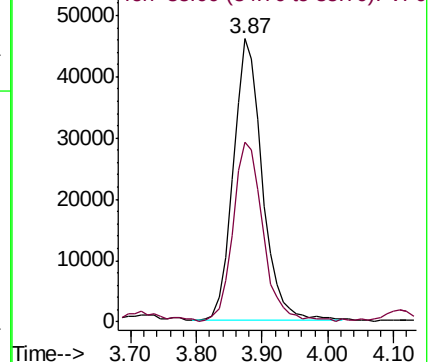
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 63.6  | 53.7  | 80.5  |

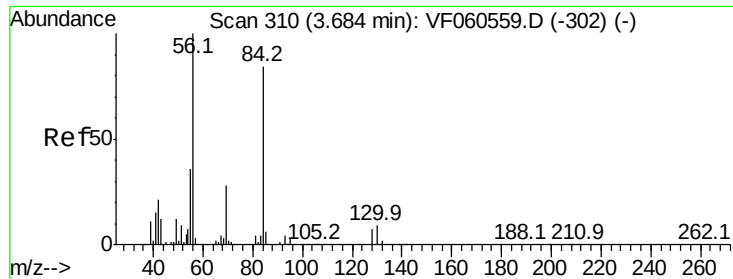


Abundance

Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

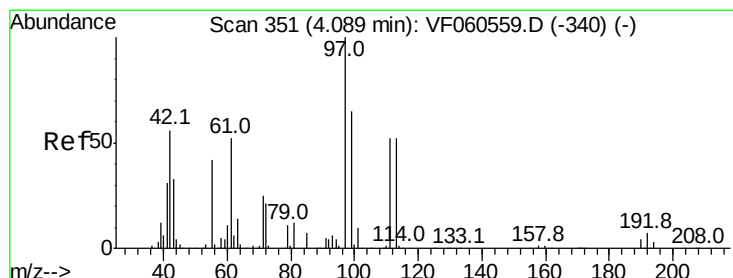
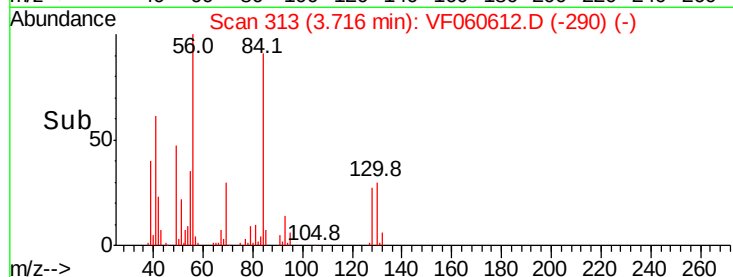
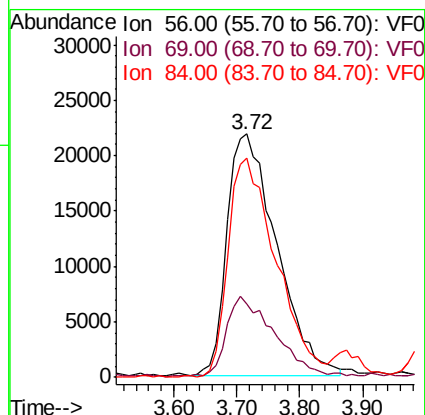
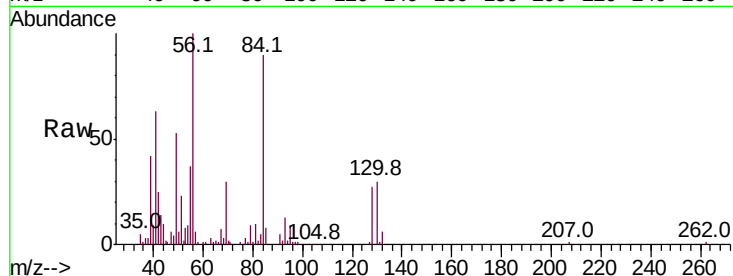




#31  
Cyclohexane  
Concen: 23.234 ug/l  
RT: 3.72 min Scan# 313  
Delta R.T. 0.03 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

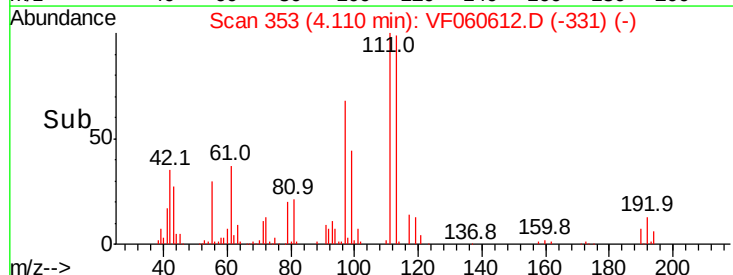
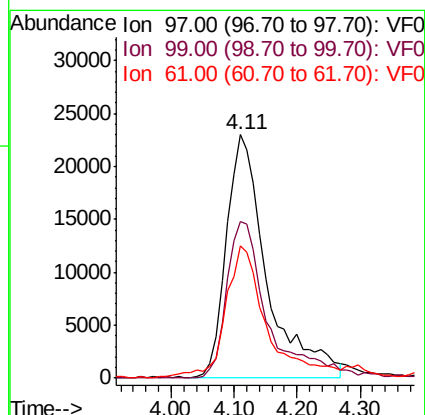
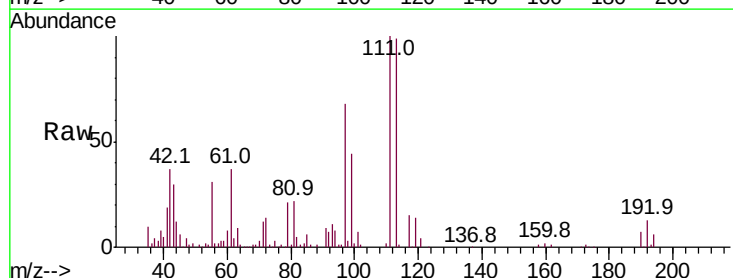
Instrument :  
MSVOA\_F  
ClientSampleId :

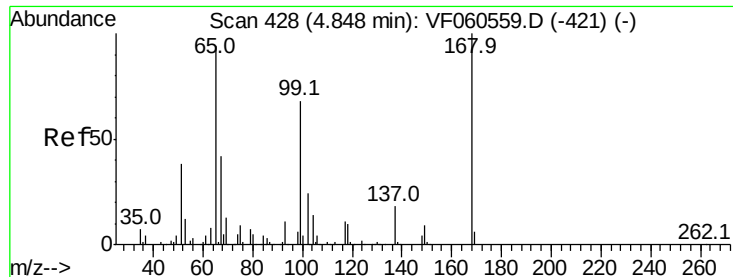
Tot Ion: 56 Resp: 119540  
Ion Ratio Lower Upper  
56 100  
69 30.0 23.0 34.4  
84 90.2 67.1 100.7



#32  
1,1,1-Trichloroethane  
Concen: 25.056 ug/l  
RT: 4.11 min Scan# 353  
Delta R.T. 0.02 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Tgt Ion: 97 Resp: 103224  
Ion Ratio Lower Upper  
97 100  
99 64.3 52.4 78.6  
61 54.4 41.5 62.3

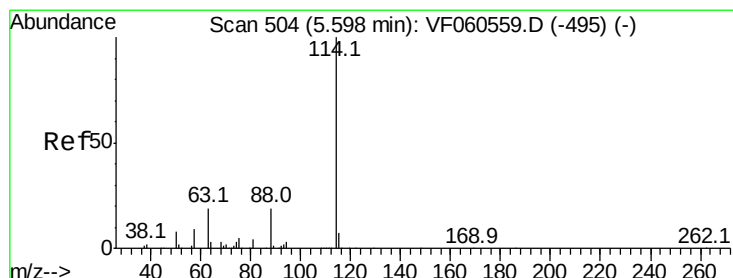
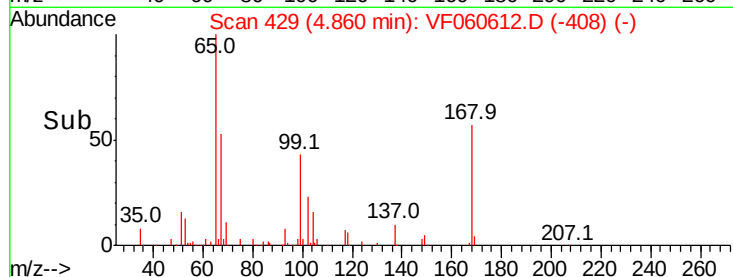
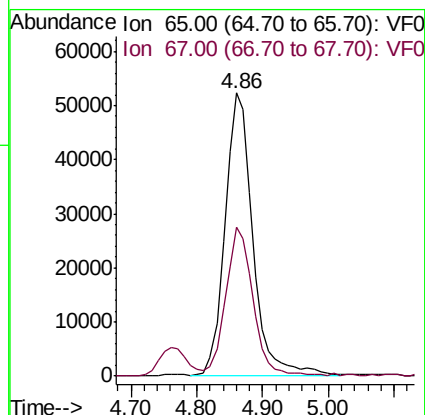
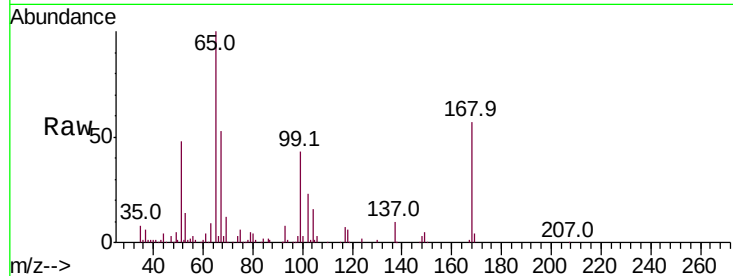




#33  
 1,2-Dichloroethane-d4  
 Concen: 59.105 ug/l  
 RT: 4.86 min Scan# 429  
 Delta R.T. 0.01 min  
 Lab File: VF060612.D  
 Acq: 6 Nov 2018 14:33

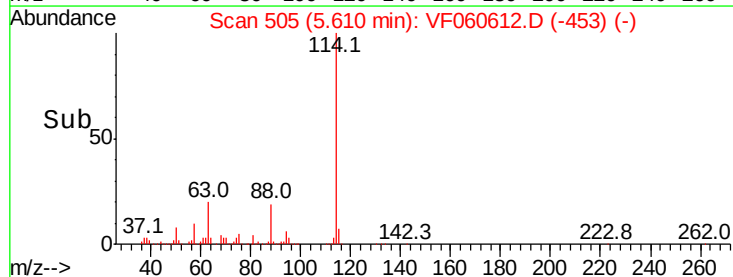
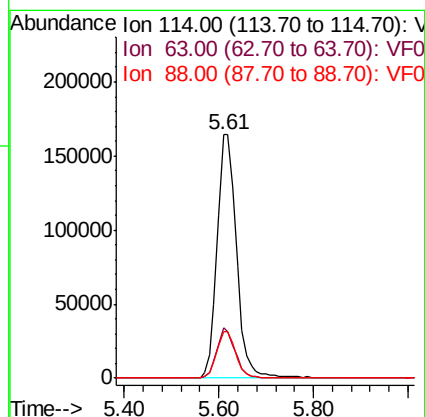
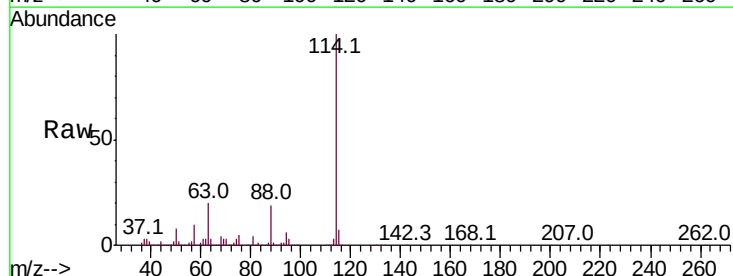
Instrument :  
 MSVOA\_F  
 ClientSampled :

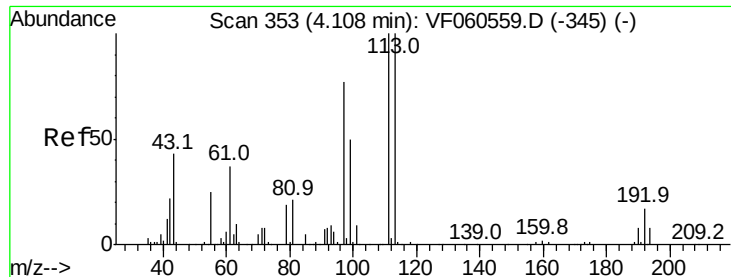
Tot Ion: 65 Resp: 153078  
 Ion Ratio Lower Upper  
 65 100  
 67 52.5 0.0 101.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.61 min Scan# 505  
 Delta R.T. 0.01 min  
 Lab File: VF060612.D  
 Acq: 6 Nov 2018 14:33

Tgt Ion: 114 Resp: 469378  
 Ion Ratio Lower Upper  
 114 100  
 63 20.5 0.0 39.0  
 88 19.1 0.0 38.2

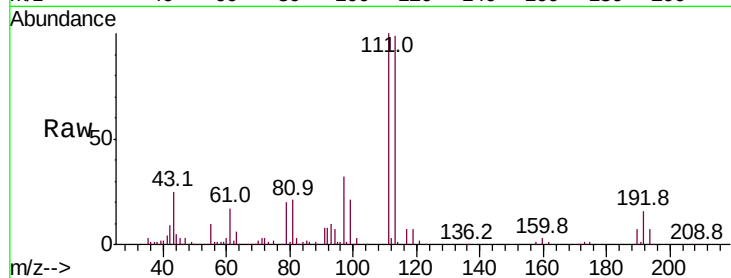




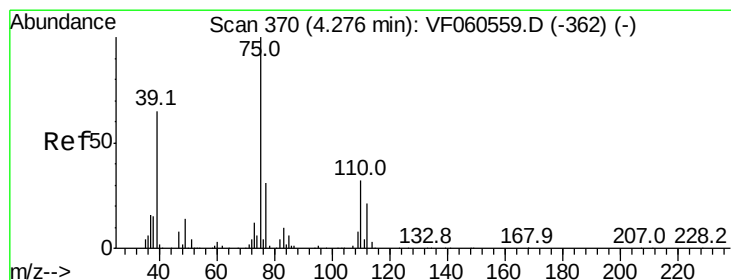
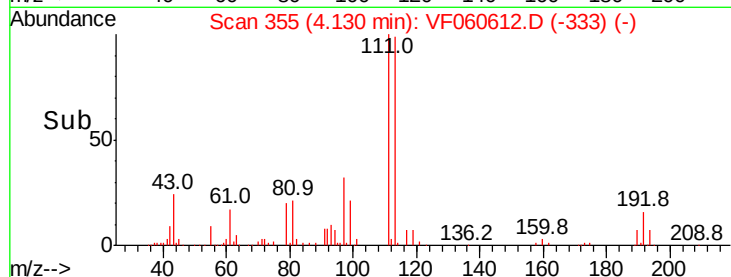
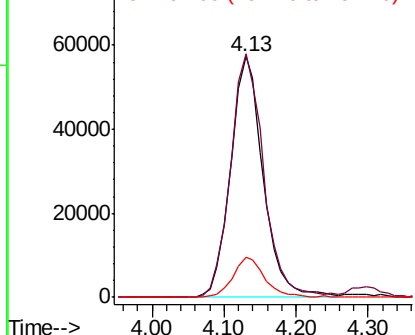
#35  
 Dibromofluoromethane  
 Concen: 50.015 ug/l  
 RT: 4.13 min Scan# 355  
 Delta R.T. 0.02 min  
 Lab File: VF060612.D  
 Acq: 6 Nov 2018 14:33

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Tot Ion:113 Resp: 181373  
 Ion Ratio Lower Upper  
 113 100  
 111 101.2 79.9 119.9  
 192 16.8 13.3 19.9

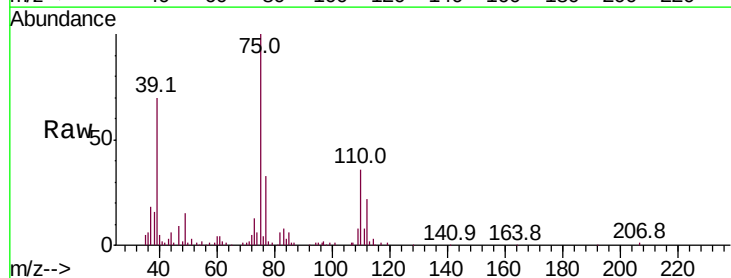


Abundance Ion 113.00 (112.70 to 113.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 192.00 (191.70 to 192.70): V

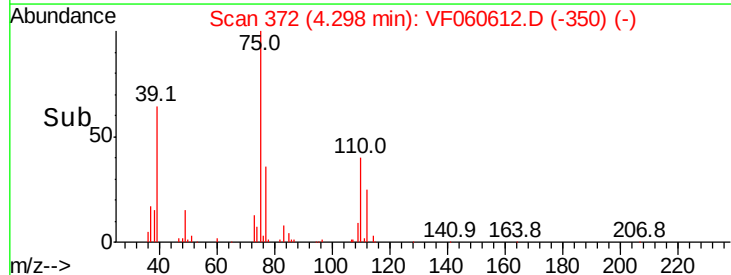
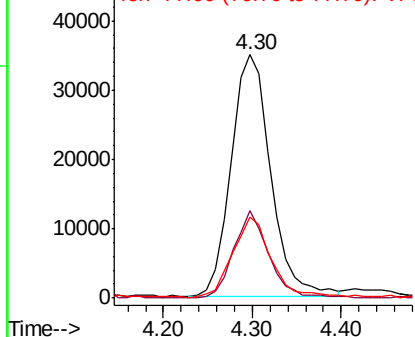


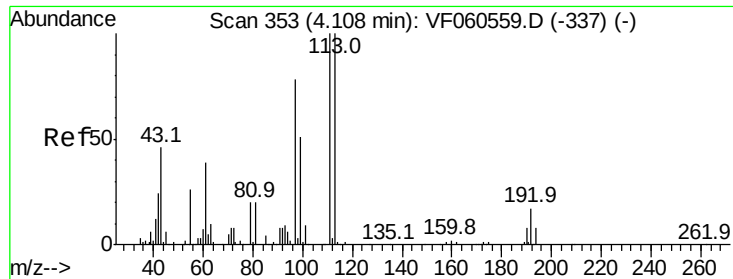
#36  
 1,1-Dichloropropene  
 Concen: 21.098 ug/l  
 RT: 4.30 min Scan# 372  
 Delta R.T. 0.02 min  
 Lab File: VF060612.D  
 Acq: 6 Nov 2018 14:33

Tgt Ion: 75 Resp: 109040  
 Ion Ratio Lower Upper  
 75 100  
 110 35.8 16.2 48.6  
 77 33.5 25.0 37.6



Abundance Ion 75.00 (74.70 to 75.70): VF0  
 Ion 110.00 (109.70 to 110.70): V  
 Ion 77.00 (76.70 to 77.70): VF0

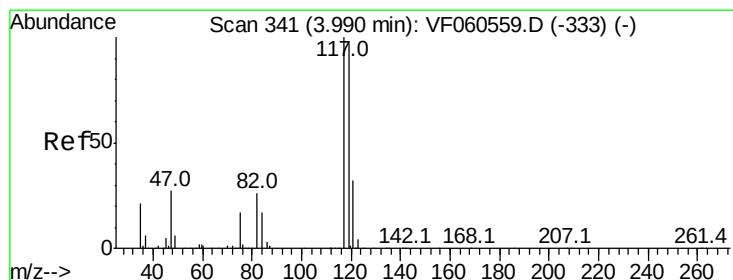
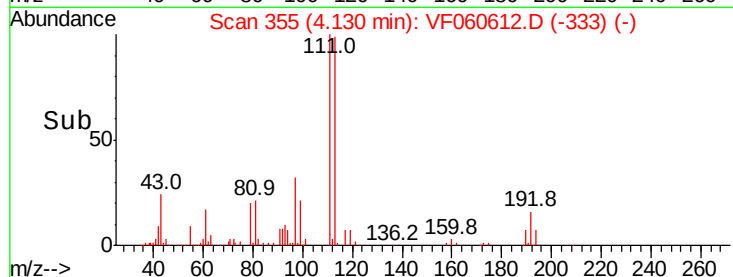
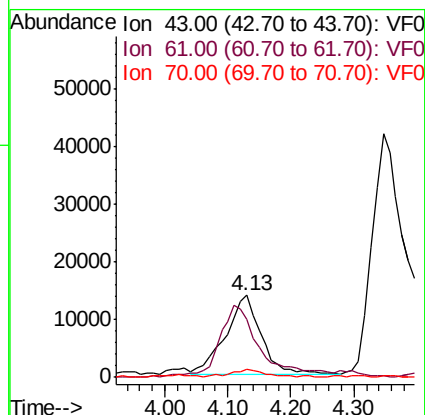
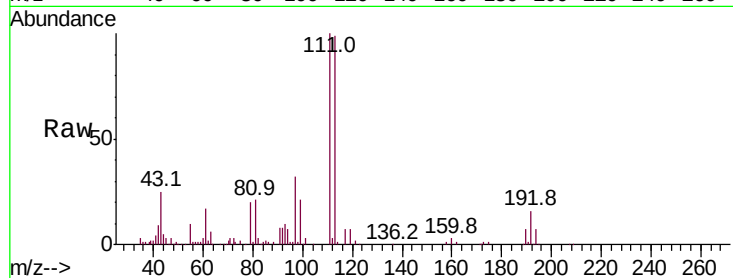




#37  
Ethyl Acetate  
Concen: 21.451 ug/l  
RT: 4.13 min Scan# 355  
Delta R.T. 0.02 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

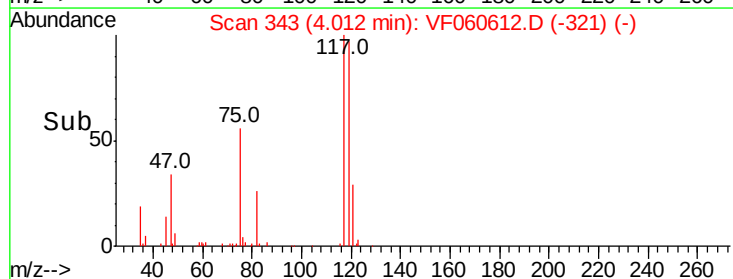
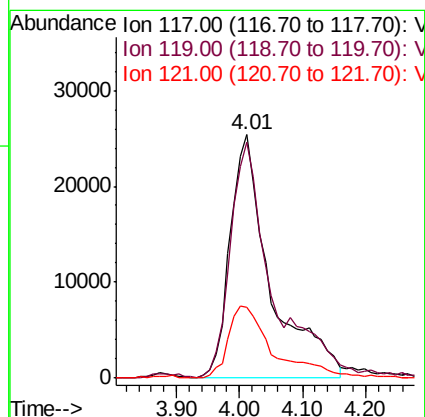
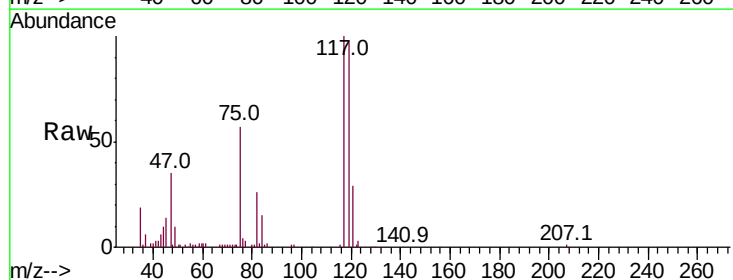
Instrument :  
MSVOA\_F  
ClientSampleId :

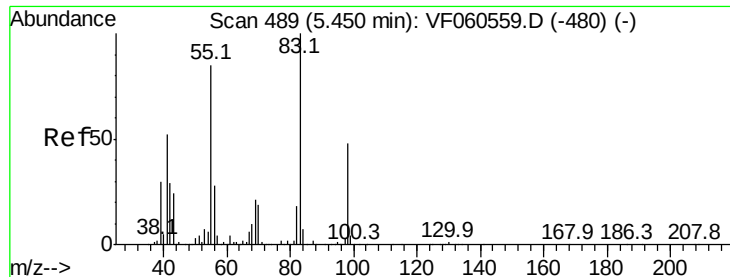
Tot Ion: 43 Resp: 53219  
Ion Ratio Lower Upper  
43 100  
61 70.1 63.4 95.2  
70 9.6 9.3 13.9



#38  
Carbon Tetrachloride  
Concen: 25.674 ug/l  
RT: 4.01 min Scan# 343  
Delta R.T. 0.02 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Tgt Ion: 117 Resp: 113381  
Ion Ratio Lower Upper  
117 100  
119 96.8 77.8 116.6  
121 29.0 25.6 38.4

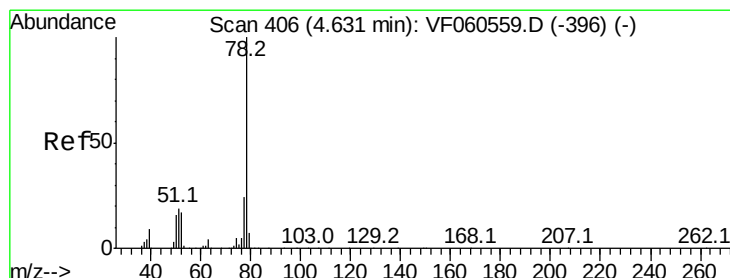
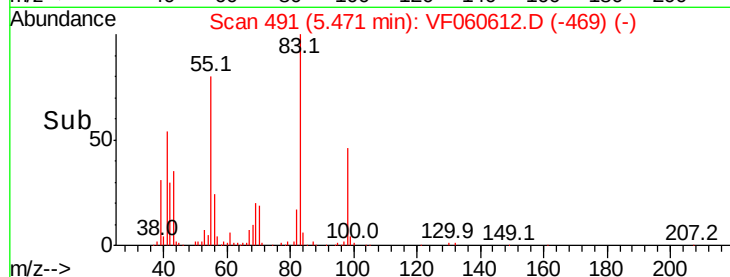
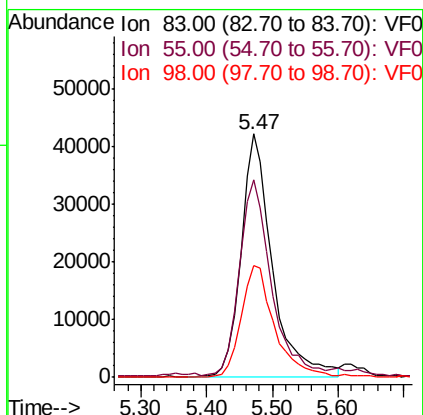
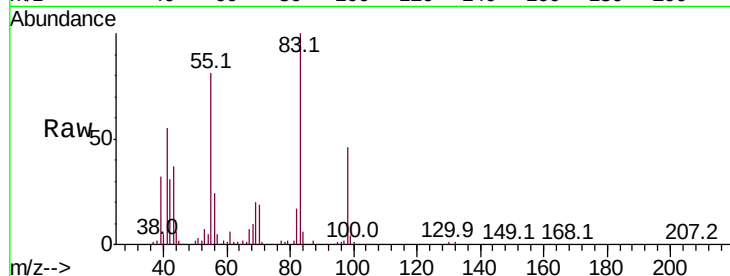




#39  
Methylvlcyclohexane  
Concen: 22.418 ug/l  
RT: 5.47 min Scan# 491  
Delta R.T. 0.02 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

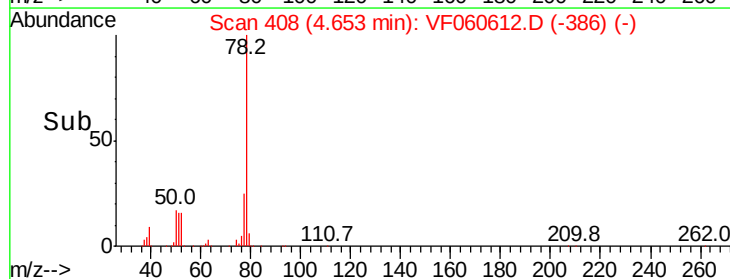
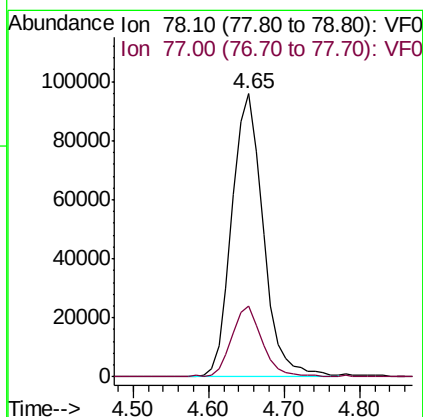
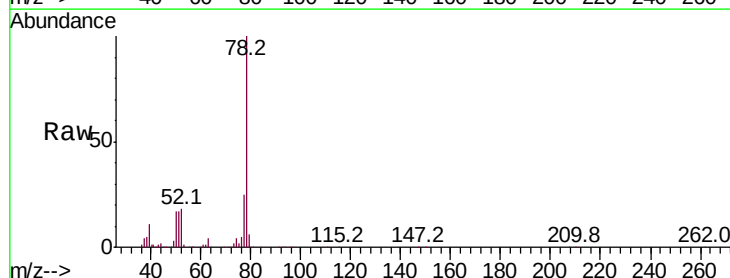
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion: 83 Resp: 141389  
Ion Ratio Lower Upper  
83 100  
55 81.3 69.1 103.7  
98 45.9 38.6 57.8

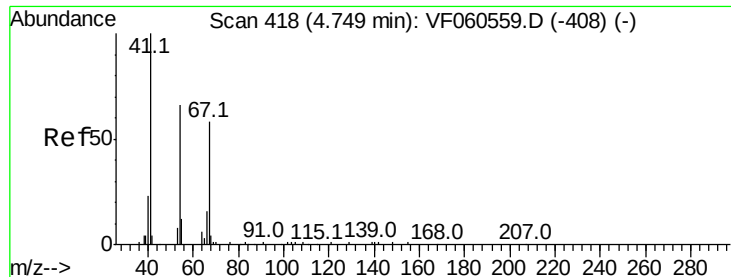


#40  
Benzene  
Concen: 22.070 ug/l  
RT: 4.65 min Scan# 408  
Delta R.T. 0.02 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Tgt Ion: 78 Resp: 276869  
Ion Ratio Lower Upper  
78 100  
77 25.0 19.3 28.9



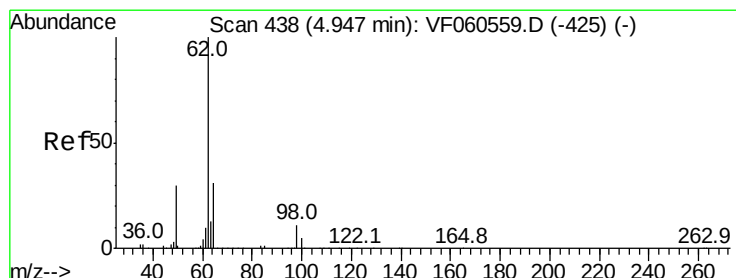
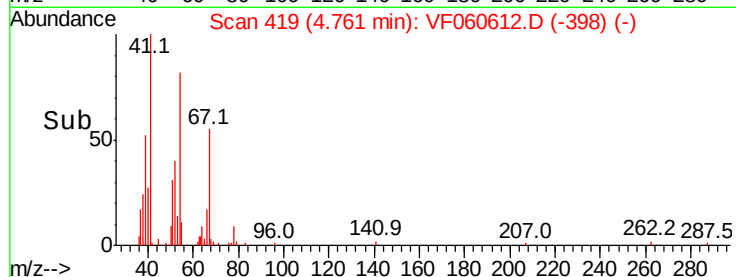
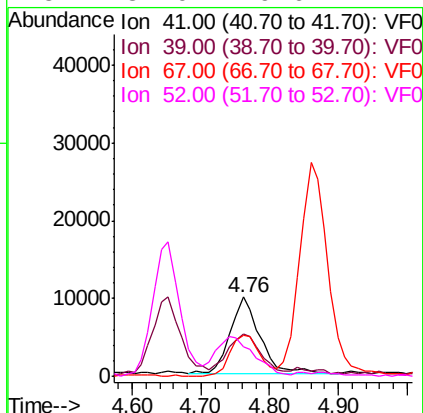
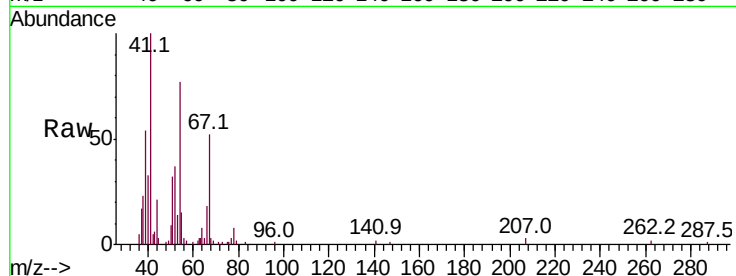




#41  
Methacrylonitrile  
Concen: 20.817 ug/l  
RT: 4.76 min Scan# 419  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

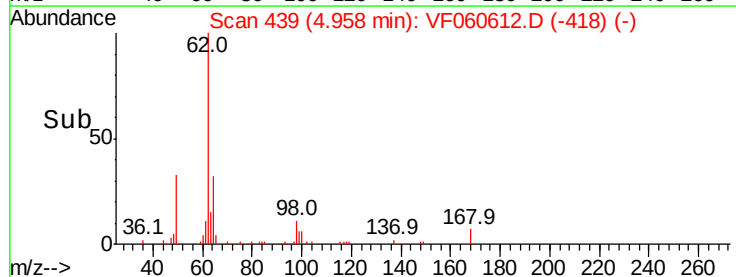
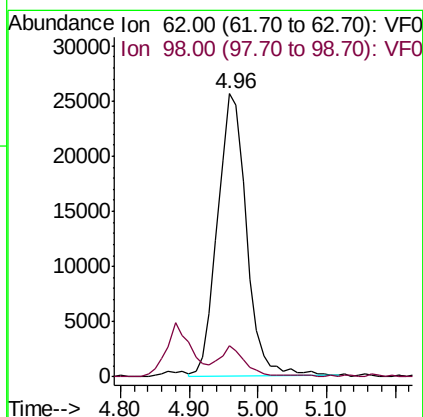
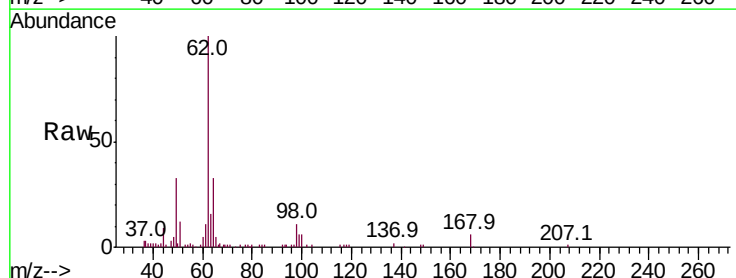
Instrument :  
MSVOA\_F  
ClientSampleId :

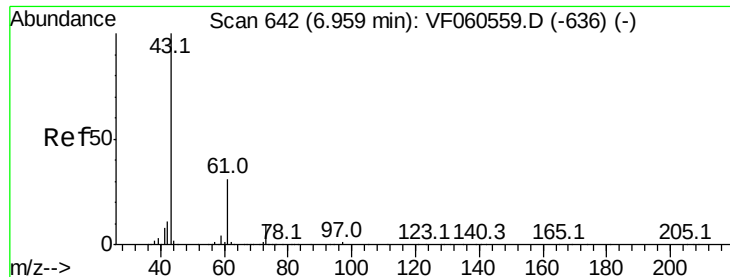
| Tot Ion: | 41    | Resp: | 29247 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 54.3  | 45.6  | 68.4  |
| 67       | 51.9  | 45.3  | 67.9  |
| 52       | 37.0  | 29.6  | 44.4  |



#42  
1,2-Dichloroethane  
Concen: 20.817 ug/l  
RT: 4.96 min Scan# 439  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

| Tgt Ion: | 62    | Resp: | 74954 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 10.9  | 0.0   | 22.4  |





#43

Isopropyl Acetate

Concen: 20.906 ug/l

RT: 6.98 min Scan# 644

Delta R.T. 0.02 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

ClientSampleId :

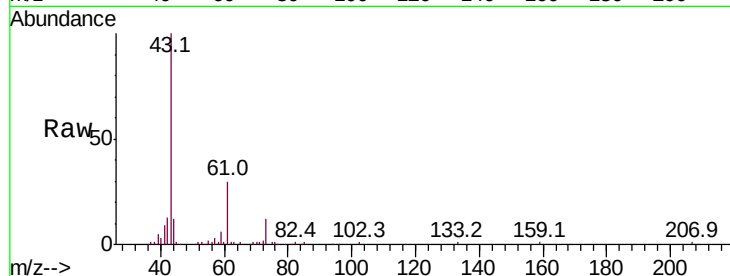
Tot Ion: 43 Resp: 65607

Ion Ratio Lower Upper

43 100

61 29.7 24.2 36.2

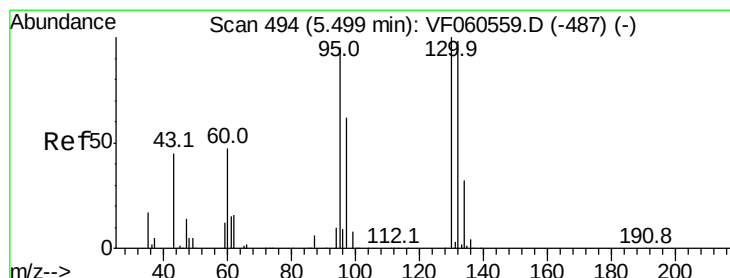
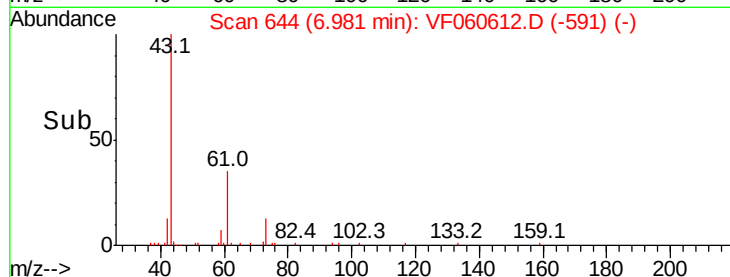
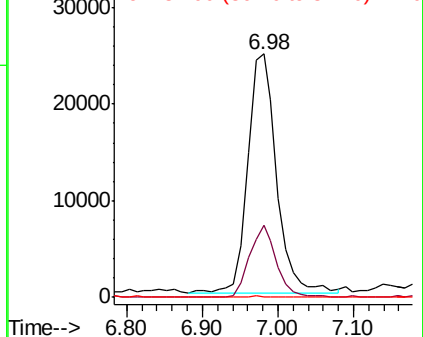
87 0.0 0.2 0.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 22.085 ug/l

RT: 5.52 min Scan# 496

Delta R.T. 0.02 min

Lab File: VF060612.D

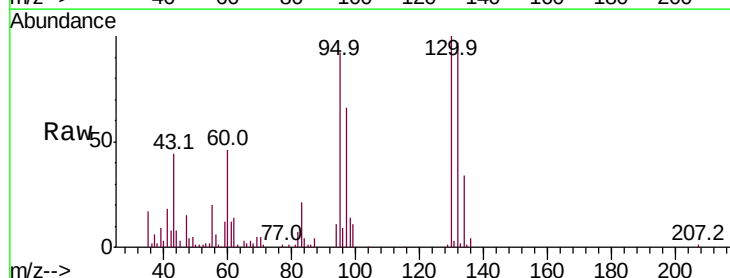
Acq: 6 Nov 2018 14:33

Tgt Ion:130 Resp: 83265

Ion Ratio Lower Upper

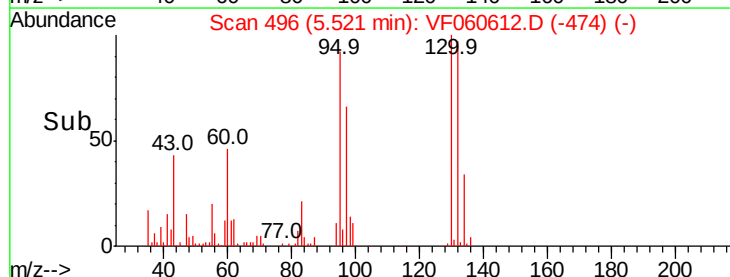
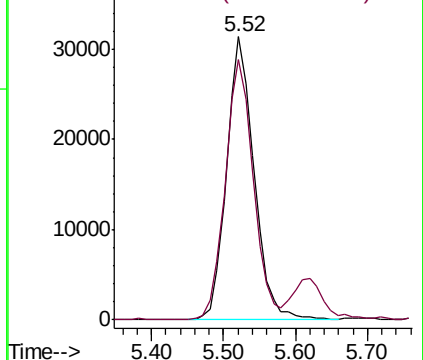
130 100

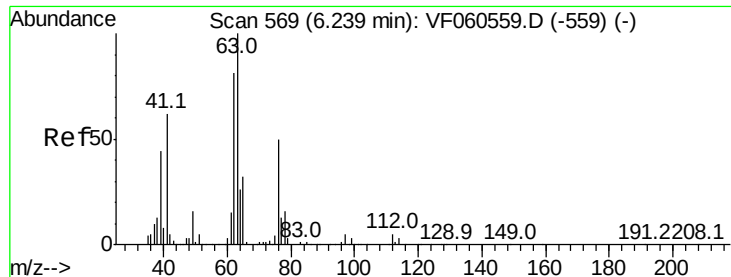
95 92.1 0.0 191.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 23.956 ug/l

RT: 6.25 min Scan# 570

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

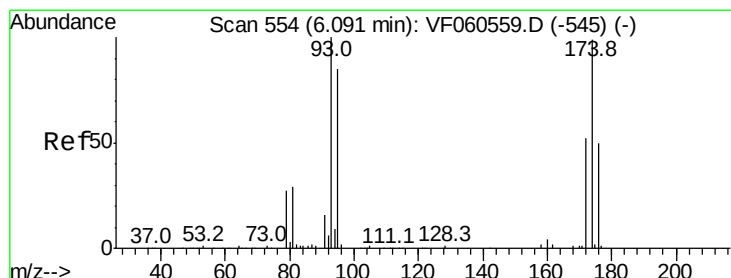
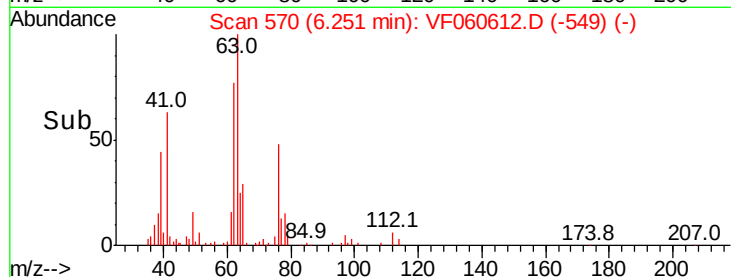
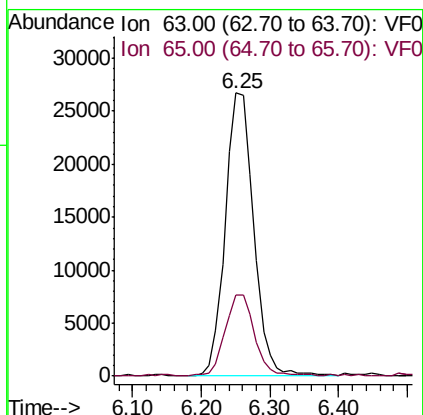
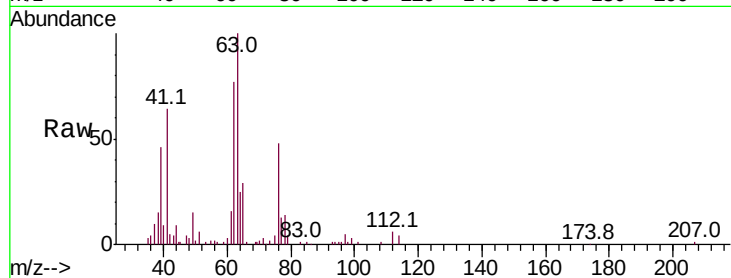
ClientSampleId :

Tot Ion: 63 Resp: 76862

Ion Ratio Lower Upper

63 100

65 28.7 25.4 38.0



#46

Dibromomethane

Concen: 21.817 ug/l

RT: 6.10 min Scan# 555

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

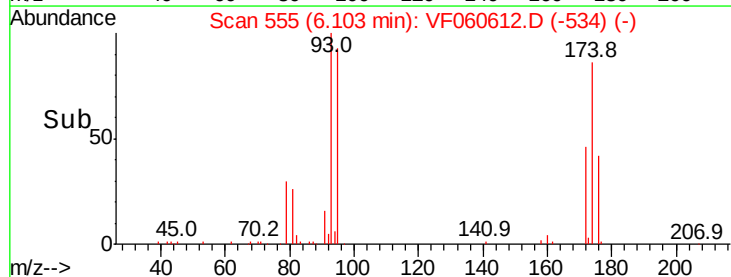
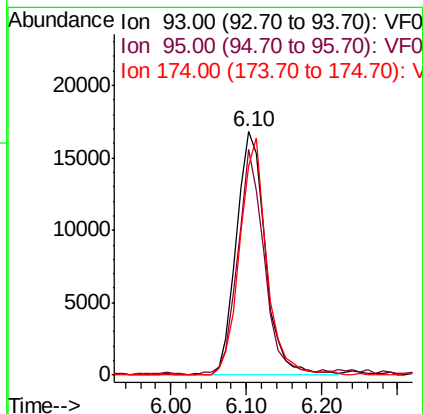
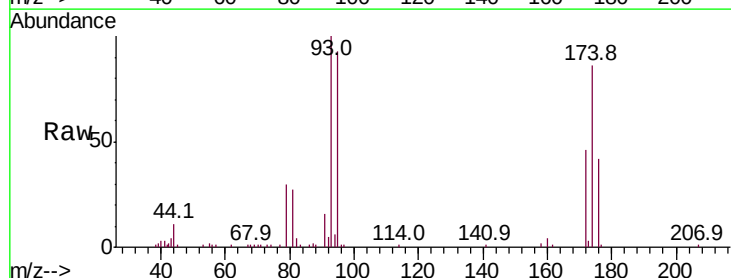
Tgt Ion: 93 Resp: 44408

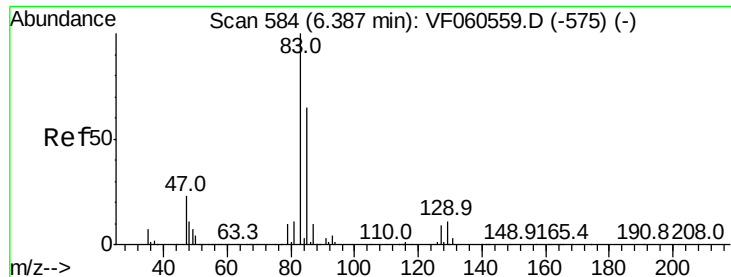
Ion Ratio Lower Upper

93 100

95 92.7 68.6 102.8

174 85.8 79.0 118.4





#47

Bromodichloromethane

Concen: 22.507 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :  
MSVOA\_F  
ClientSampled :

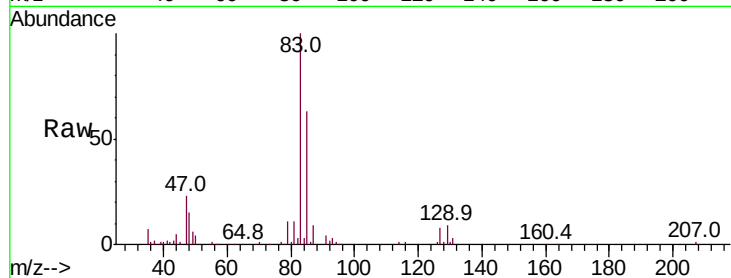
Tot Ion: 83 Resp: 110501

Ion Ratio Lower Upper

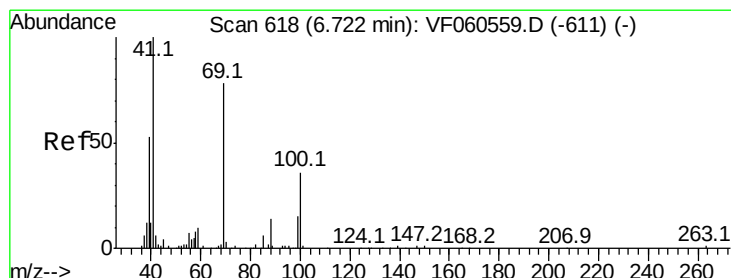
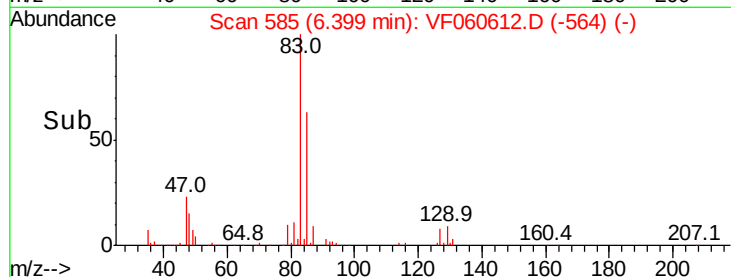
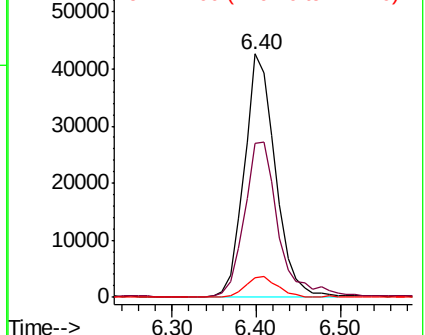
83 100

85 63.1 51.8 77.6

127 7.8 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 85.00 (84.70 to 85.70): VF0  
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 21.691 ug/l

RT: 6.73 min Scan# 619

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

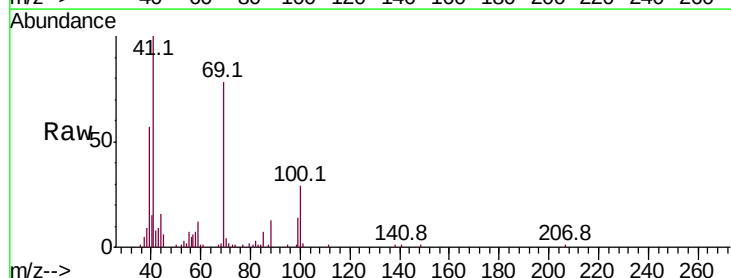
Tgt Ion: 41 Resp: 42780

Ion Ratio Lower Upper

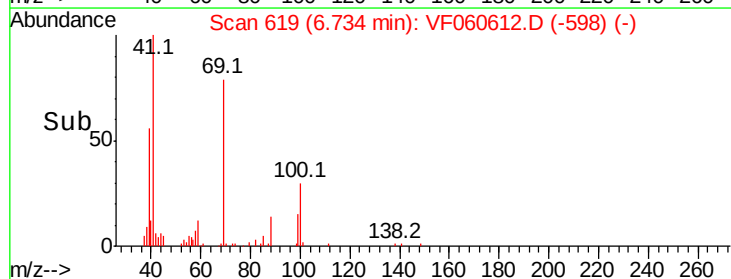
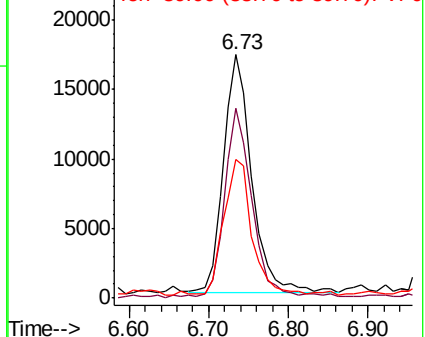
41 100

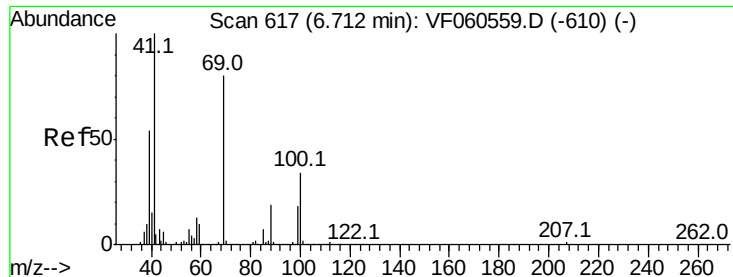
69 78.0 61.1 91.7

39 56.9 43.0 64.6



Abundance Ion 41.00 (40.70 to 41.70): VF0  
Ion 69.00 (68.70 to 69.70): VF0  
Ion 39.00 (38.70 to 39.70): VF0

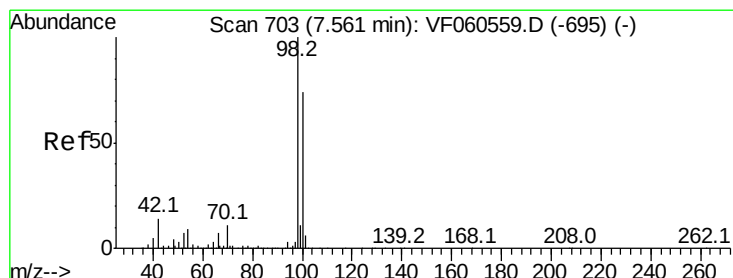
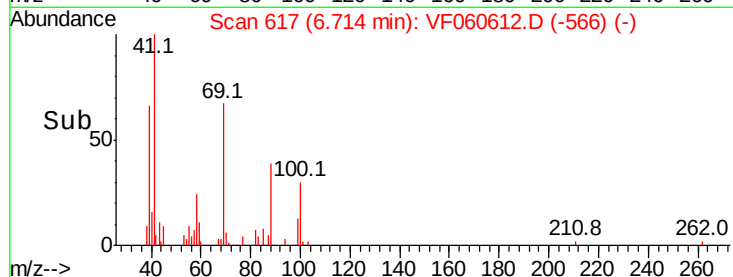
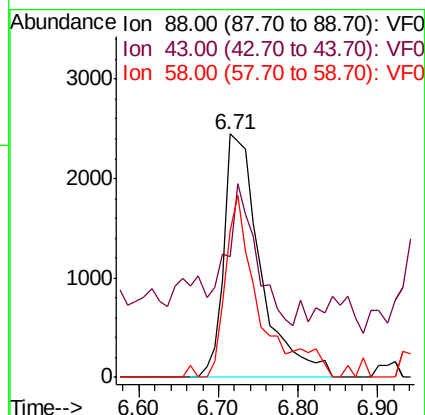
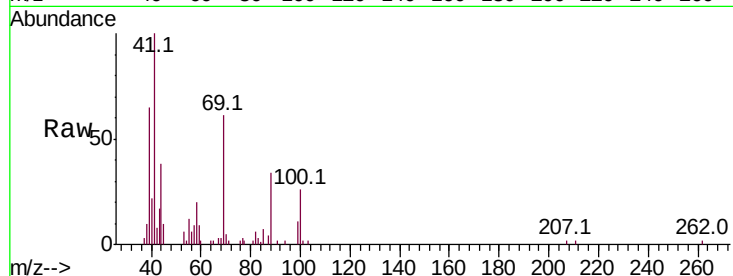




#49  
1,4-Dioxane  
Concen: 384.500 ug/l  
RT: 6.71 min Scan# 617  
Delta R.T. 0.00 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

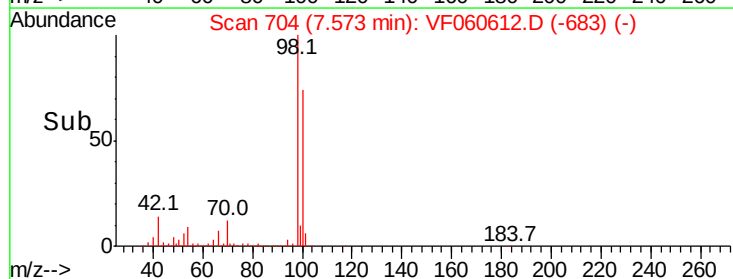
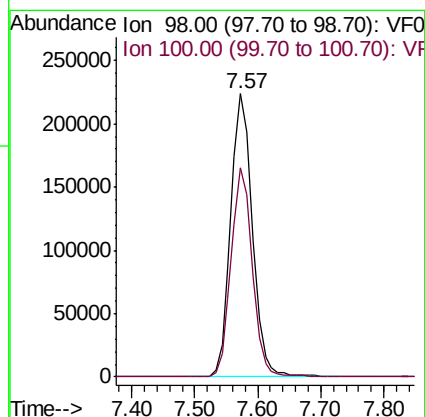
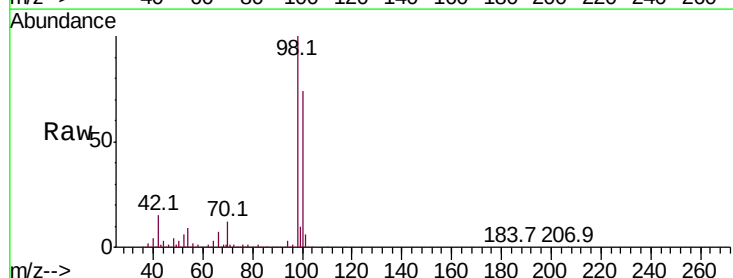
Instrument :  
MSVOA\_F  
ClientSampleId :

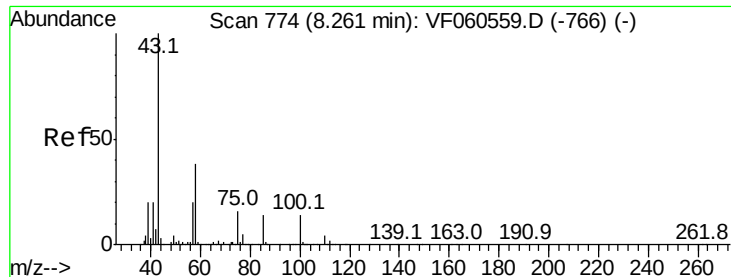
Tot Ion: 88 Resp: 7933  
Ion Ratio Lower Upper  
88 100  
43 49.4 61.2 91.8#  
58 59.9 56.9 85.3



#50  
Toluene-d8  
Concen: 49.448 ug/l  
RT: 7.57 min Scan# 704  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Tgt Ion: 98 Resp: 531197  
Ion Ratio Lower Upper  
98 100  
100 73.9 59.4 89.2





#51

4-Methyl-2-Pentanone

Concen: 119.379 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

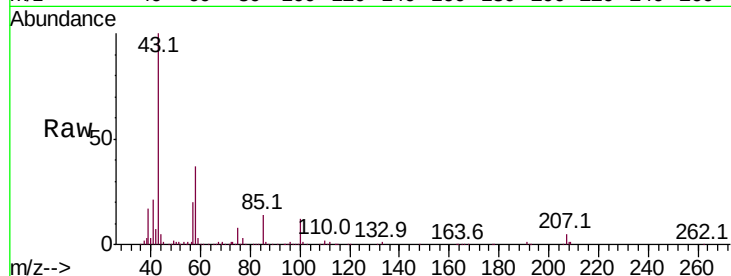
ClientSampled :

Tot Ion: 43 Resp: 251926

Ion Ratio Lower Upper

43 100

58 36.9 30.1 45.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

120000

100000

80000

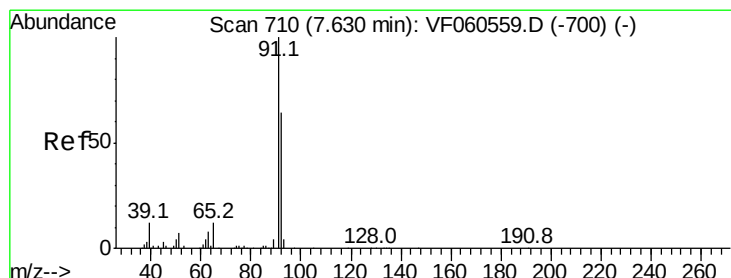
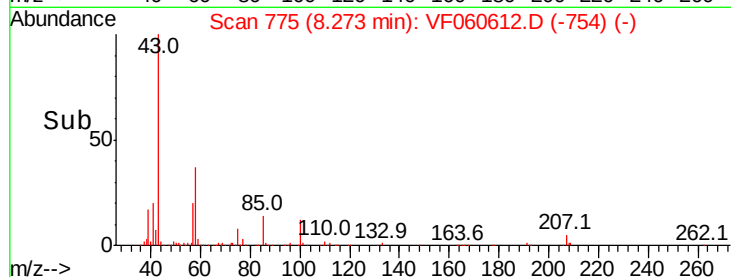
60000

40000

20000

0

Time--> 8.10 8.20 8.30 8.40



#52

Toluene

Concen: 19.951 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF060612.D

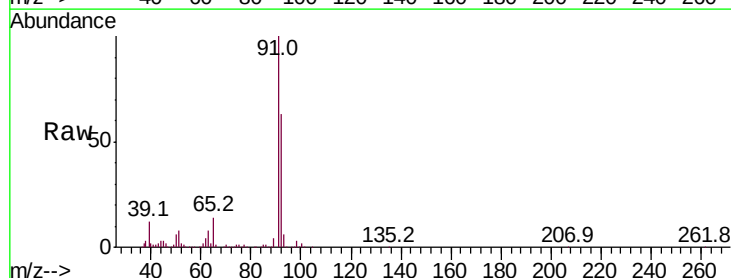
Acq: 6 Nov 2018 14:33

Tgt Ion: 92 Resp: 163041

Ion Ratio Lower Upper

92 100

91 158.4 124.5 186.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.64

120000

100000

80000

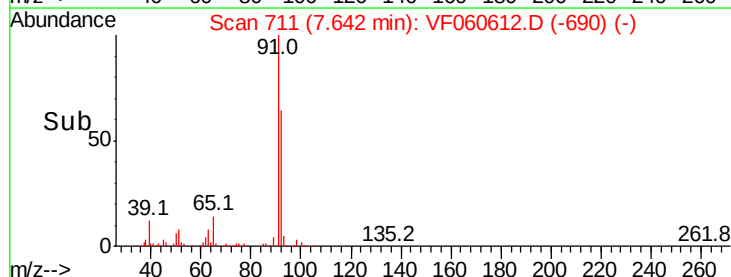
60000

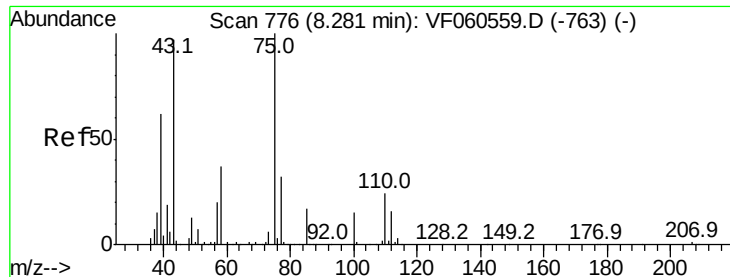
40000

20000

0

Time--> 7.50 7.60 7.70 7.80

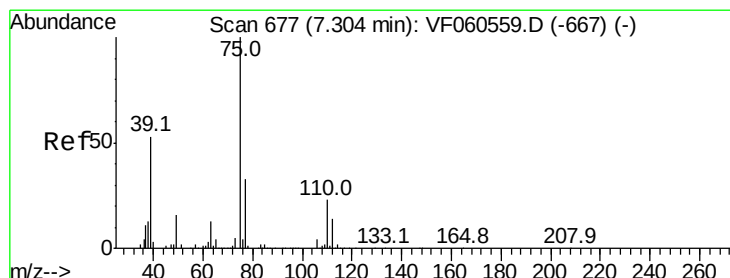
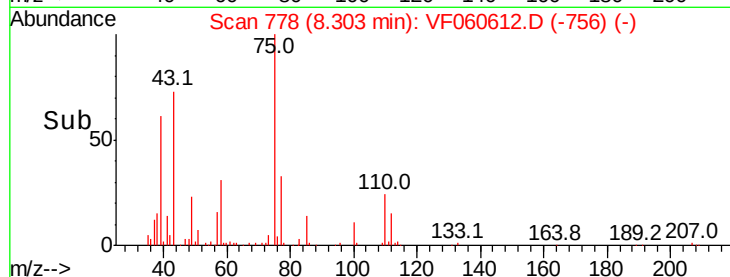
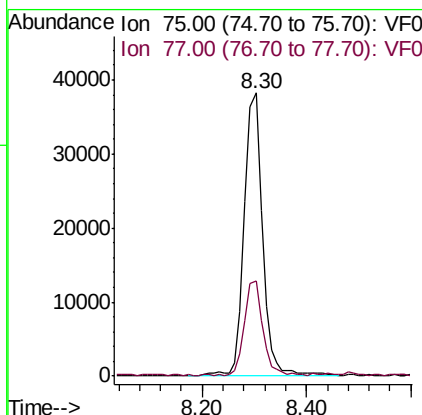
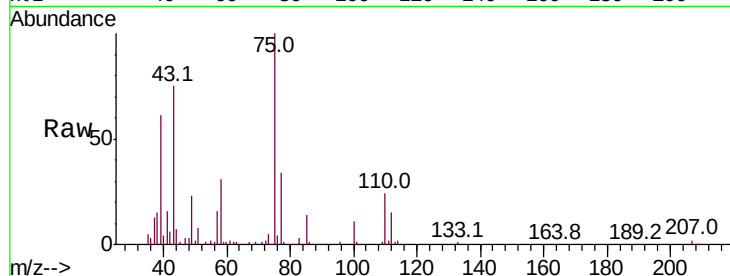




#53  
 t-1,3-Dichloropropene  
 Concen: 21.328 ug/l  
 RT: 8.30 min Scan# 778  
 Delta R.T. 0.02 min  
 Lab File: VF060612.D  
 Acq: 6 Nov 2018 14:33

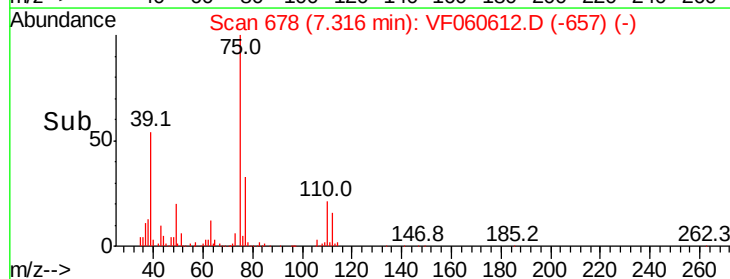
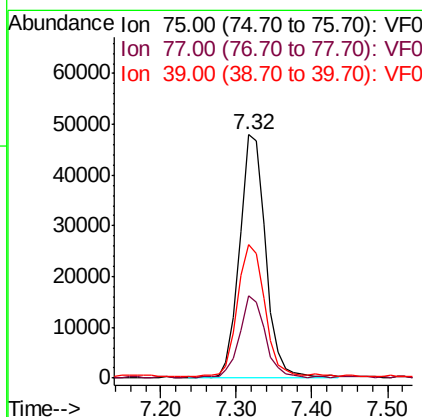
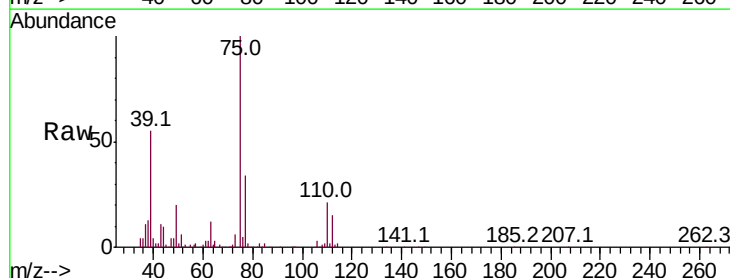
Instrument :  
 MSVOA\_F  
 ClientSampleId :

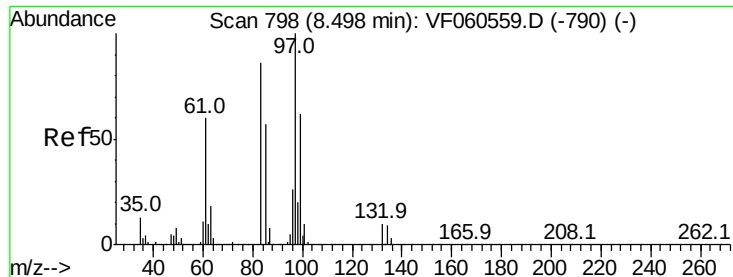
Tot Ion: 75 Resp: 91007  
 Ion Ratio Lower Upper  
 75 100  
 77 33.5 25.7 38.5



#54  
 cis-1,3-Dichloropropene  
 Concen: 21.266 ug/l  
 RT: 7.32 min Scan# 678  
 Delta R.T. 0.01 min  
 Lab File: VF060612.D  
 Acq: 6 Nov 2018 14:33

Tgt Ion: 75 Resp: 114653  
 Ion Ratio Lower Upper  
 75 100  
 77 33.6 26.7 40.1  
 39 54.7 43.0 64.4

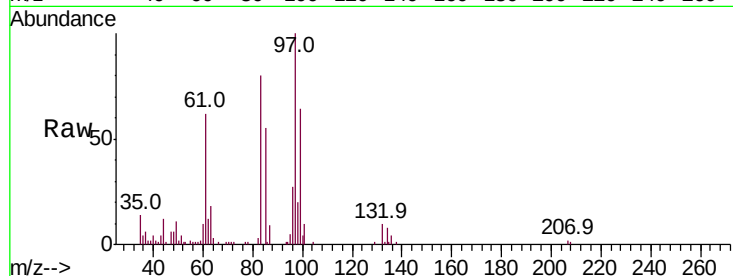




#55  
1,1,2-Trichloroethane  
Concen: 20.925 ug/l  
RT: 8.51 min Scan# 799  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Instrument :  
MSVOA\_F  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 49760 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 80.3  | 69.4  | 104.0 |
| 85       | 54.9  | 46.6  | 69.8  |
| 99       | 63.7  | 50.0  | 75.0  |

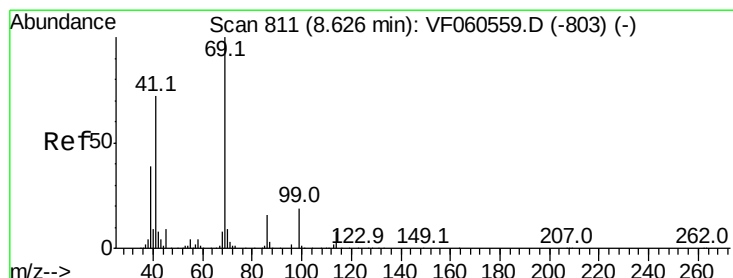
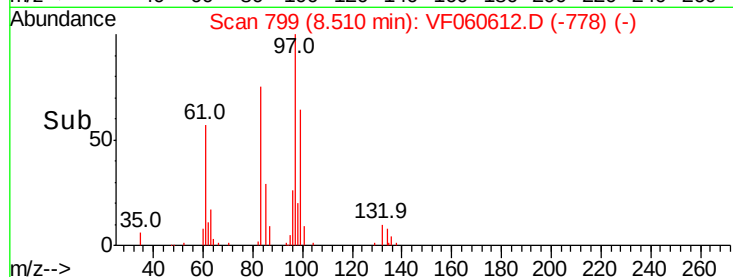
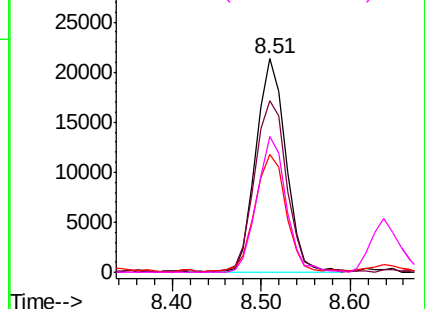


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

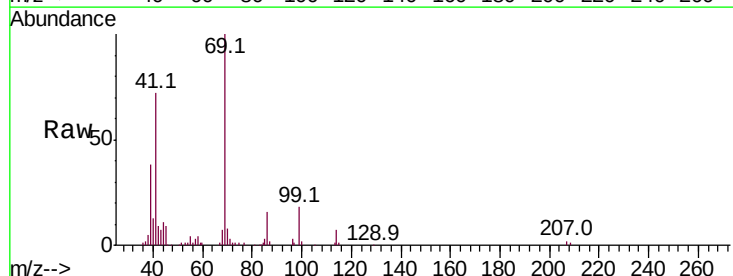
Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56  
Ethyl methacrylate  
Concen: 19.924 ug/l  
RT: 8.64 min Scan# 812  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

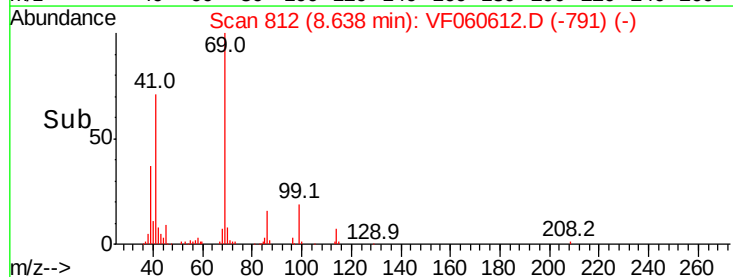
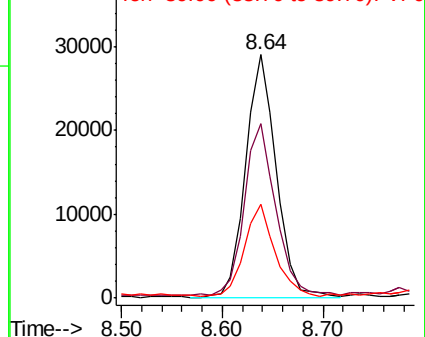
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 60959 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 71.5  | 59.2  | 88.8  |
| 39       | 38.5  | 32.3  | 48.5  |



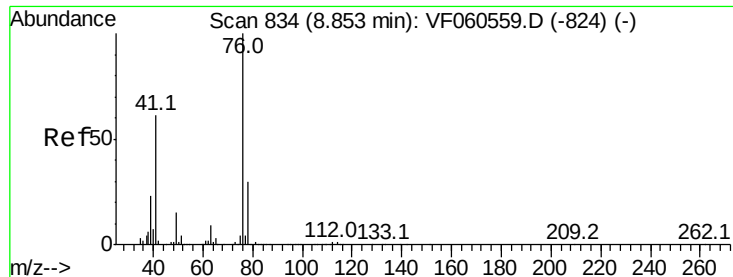
Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0







#57

1,3-Dichloropropane

Concen: 21.486 ug/l

RT: 8.87 min Scan# 836

Delta R.T. 0.02 min

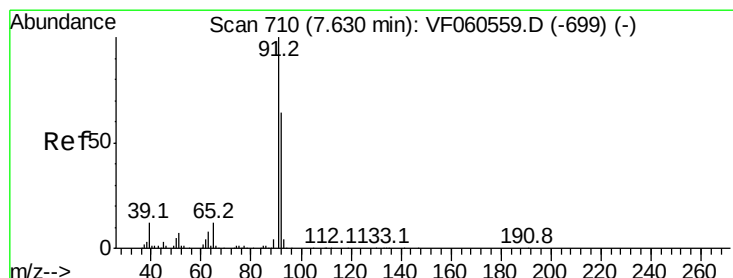
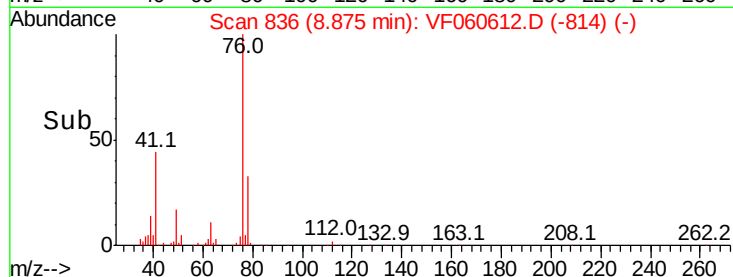
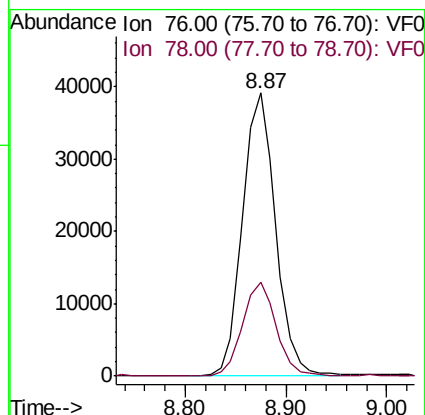
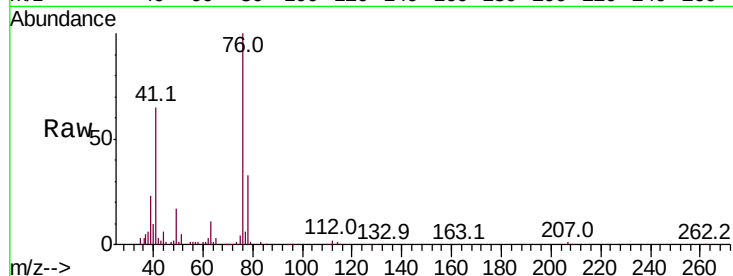
Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 76 Resp: 89651

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 33.4  | 24.2  | 36.4  |



#58

2-Chloroethyl Vinyl ether

Concen: 103.499 ug/l

RT: 7.64 min Scan# 711

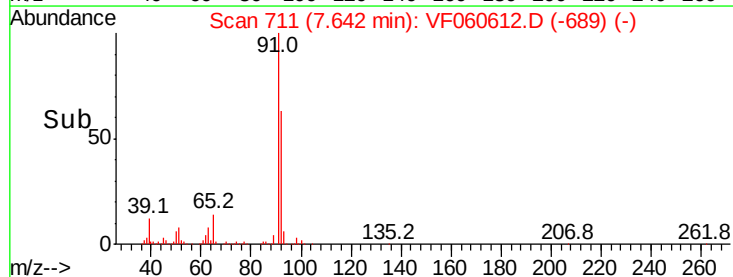
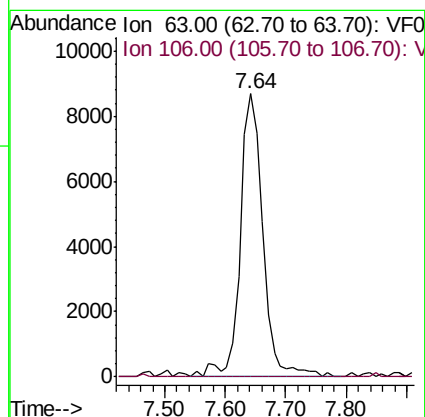
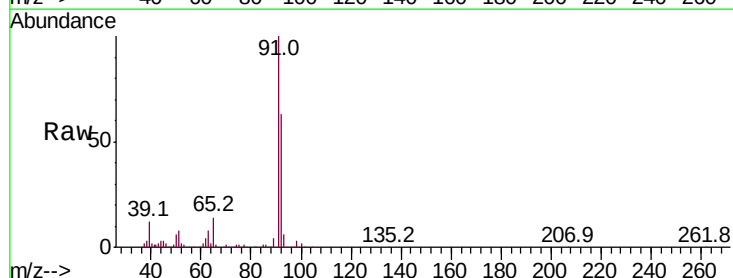
Delta R.T. 0.01 min

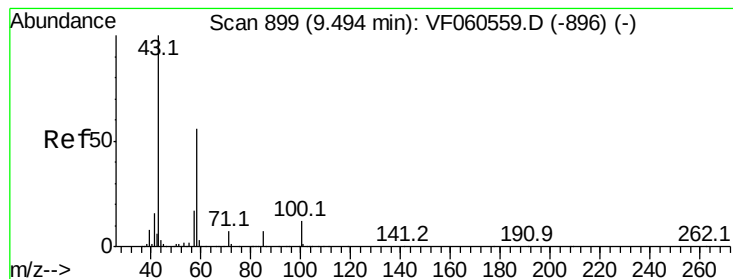
Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Tgt Ion: 63 Resp: 22648

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 106 | 0.0   | 0.0   | 0.0   |





#59

2-Hexanone

Concen: 124.077 ug/l

RT: 9.51 min Scan# 900

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

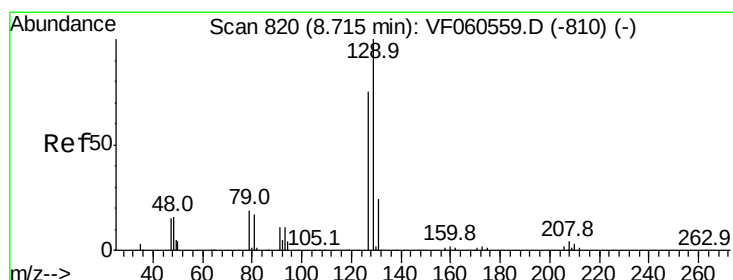
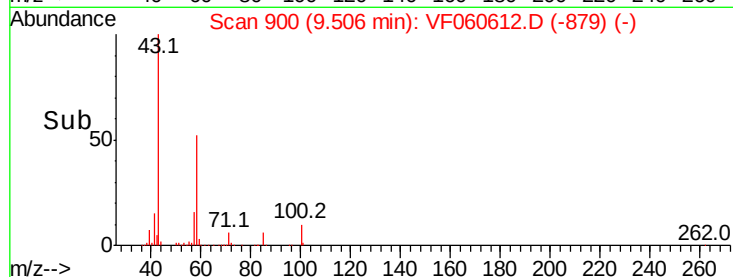
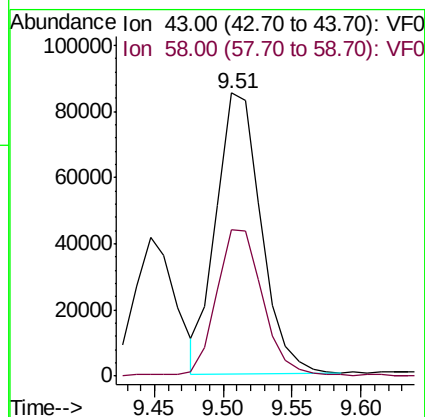
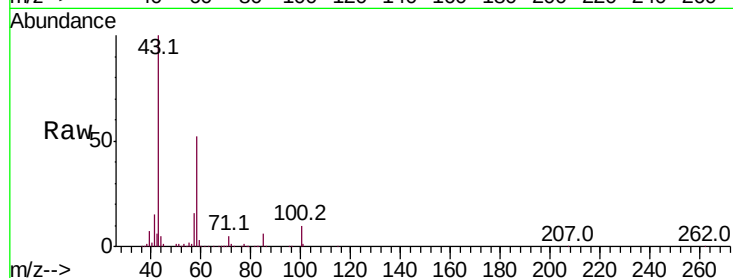
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 43 Resp: 191398

Ion Ratio Lower Upper

43 100

58 51.6 26.1 78.3



#60

Dibromochloromethane

Concen: 19.244 ug/l

RT: 8.74 min Scan# 822

Delta R.T. 0.02 min

Lab File: VF060612.D

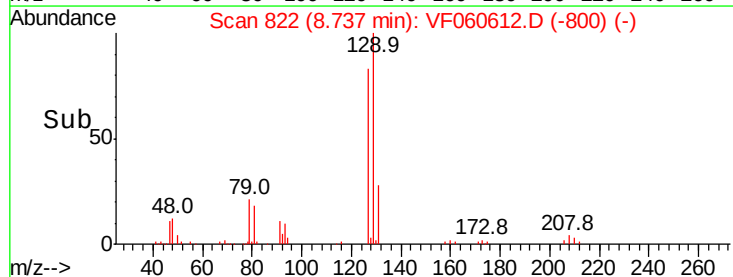
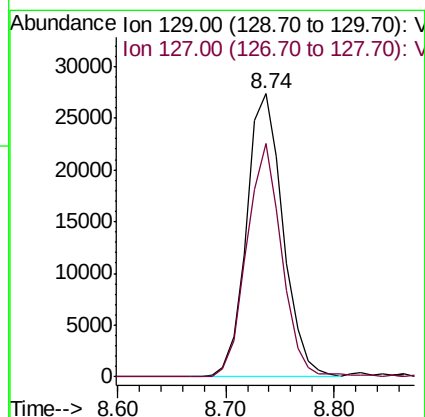
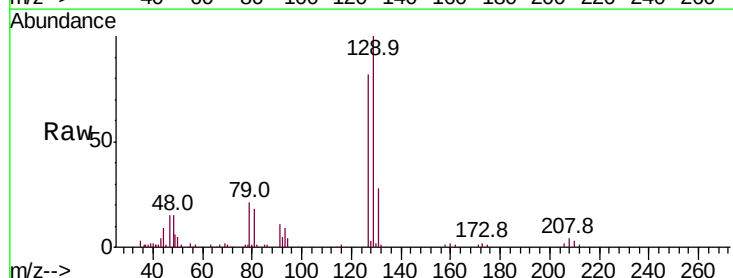
Acq: 6 Nov 2018 14:33

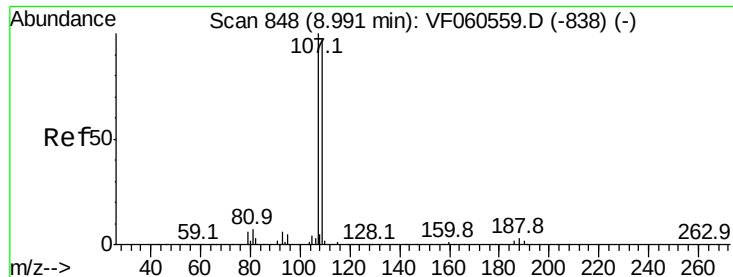
Tgt Ion: 129 Resp: 64001

Ion Ratio Lower Upper

129 100

127 82.3 37.8 113.3





#61

1,2-Dibromoethane

Concen: 22.121 ug/l

RT: 9.00 min Scan# 849

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

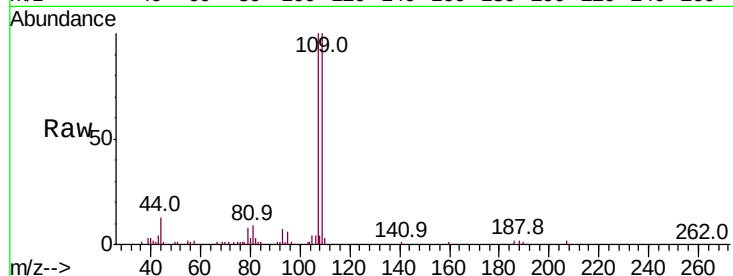
ClientSampleId :

Tot Ion:107 Resp: 55319

Ion Ratio Lower Upper

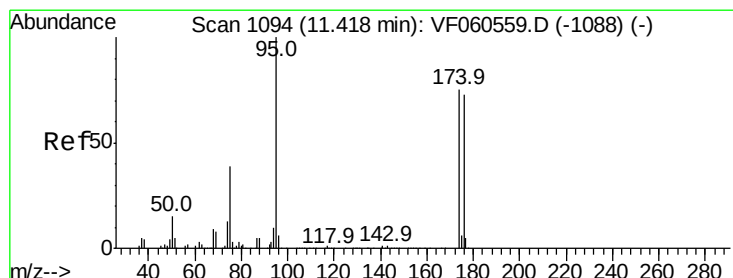
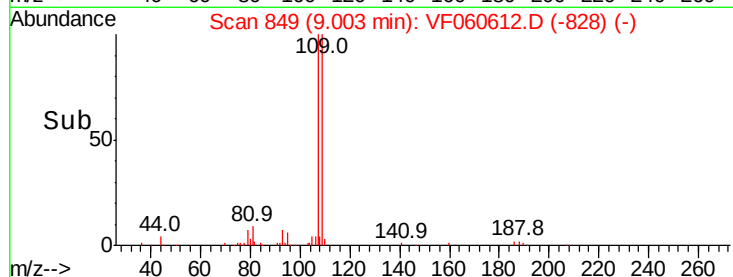
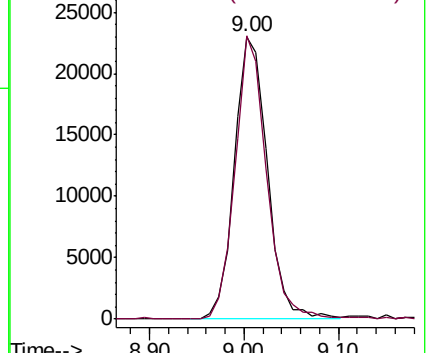
107 100

109 100.2 77.5 116.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 52.273 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

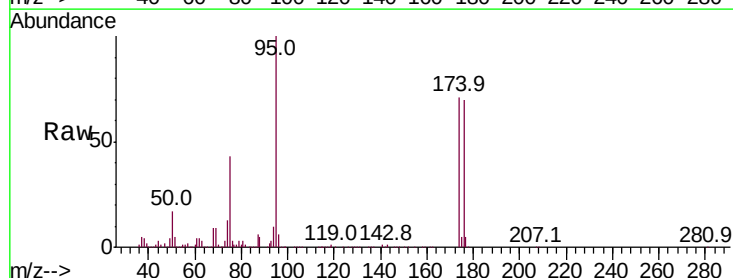
Tgt Ion: 95 Resp: 245627

Ion Ratio Lower Upper

95 100

174 71.0 0.0 149.0

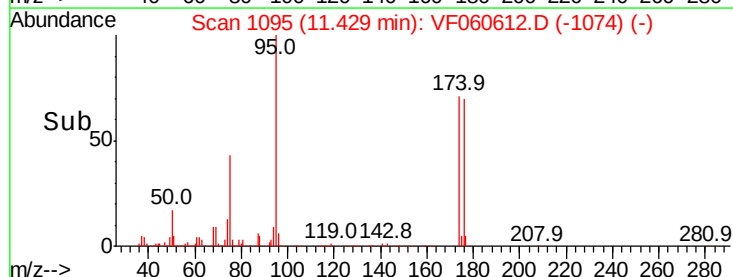
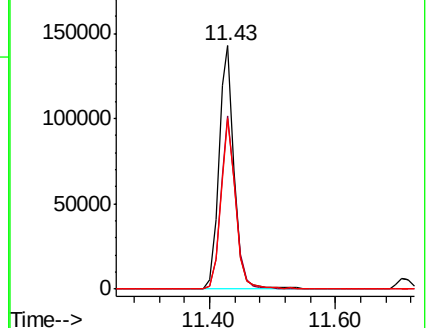
176 69.9 0.0 145.6

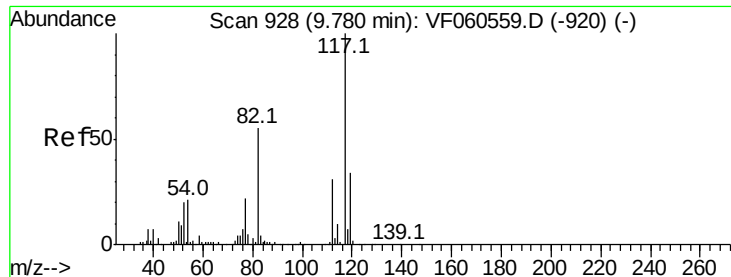


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

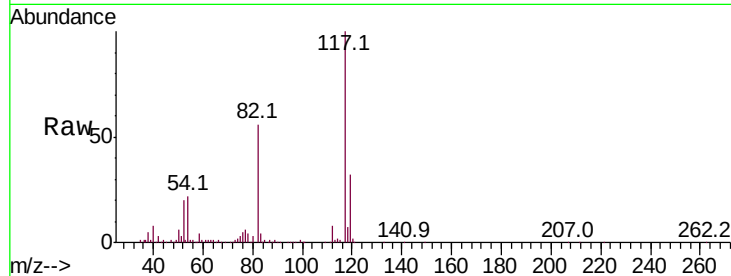




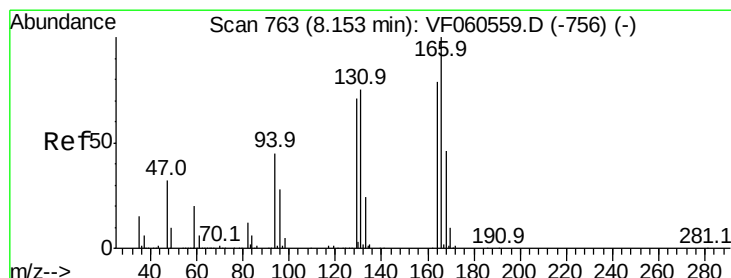
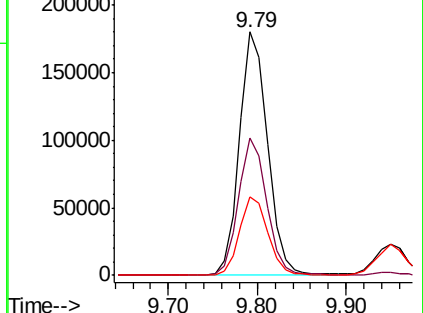
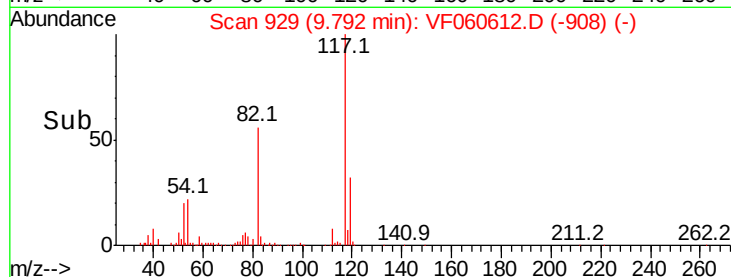
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.79 min Scan# 929  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:117 Resp: 398105  
Ion Ratio Lower Upper  
117 100  
82 56.3 43.9 65.9  
119 32.5 27.4 41.0

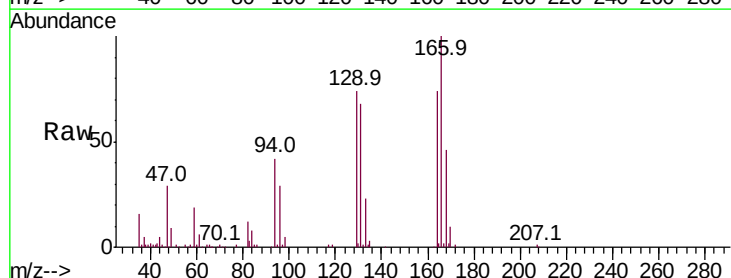


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V

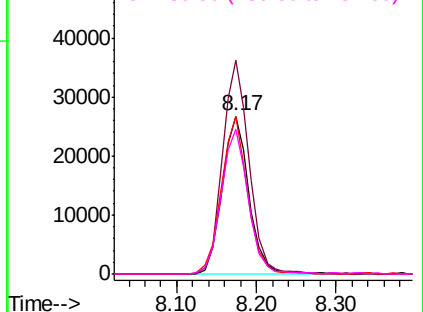
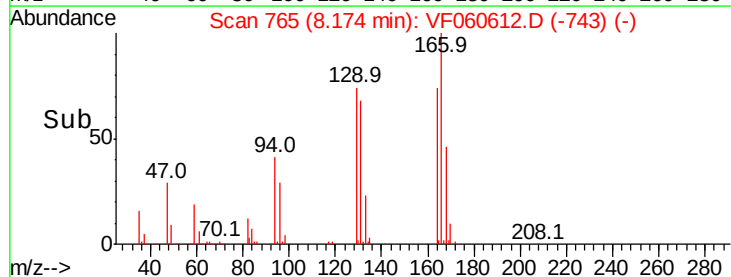


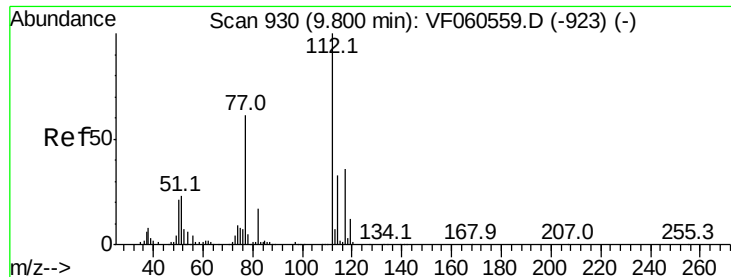
#64  
Tetrachloroethene  
Concen: 20.183 ug/l  
RT: 8.17 min Scan# 765  
Delta R.T. 0.02 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Tgt Ion:164 Resp: 62972  
Ion Ratio Lower Upper  
164 100  
166 135.1 101.5 152.3  
129 100.0 72.5 108.7  
131 91.6 76.4 114.6



Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.90 (128.60 to 129.60): V  
Ion 130.90 (130.60 to 131.60): V

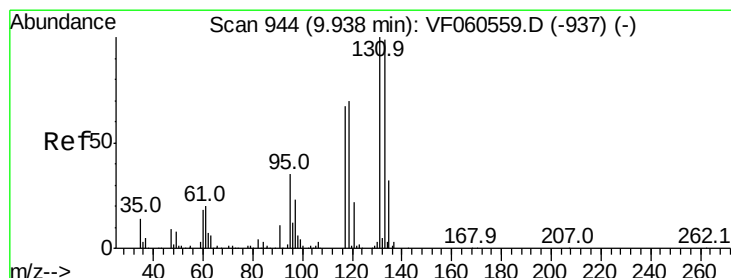
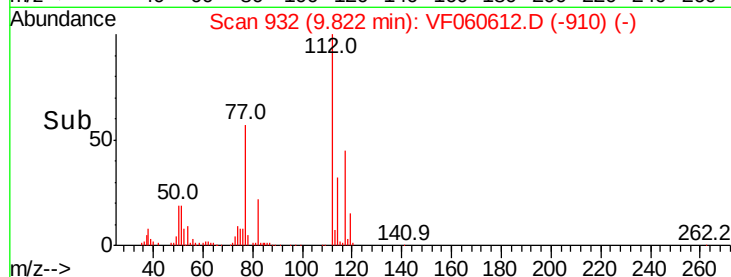
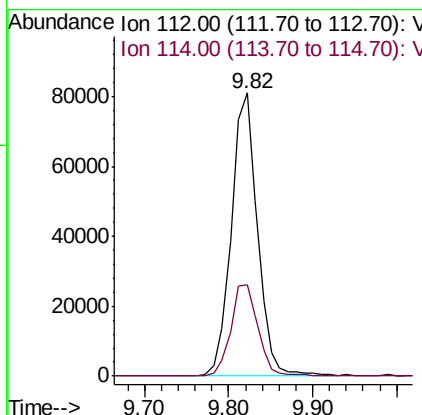
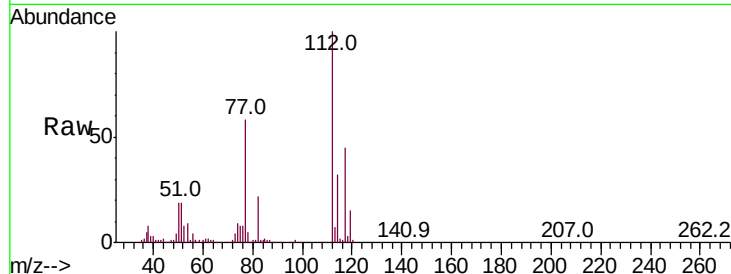




#65  
Chlorobenzene  
Concen: 21.550 ug/l  
RT: 9.82 min Scan# 932  
Delta R.T. 0.02 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

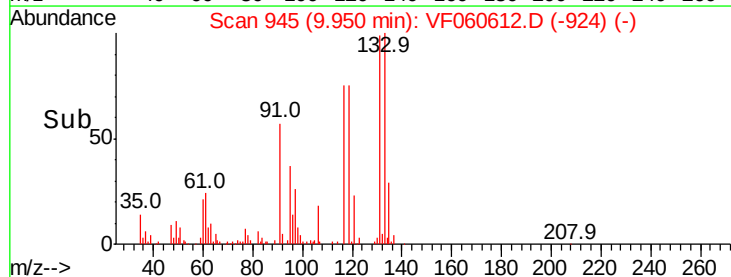
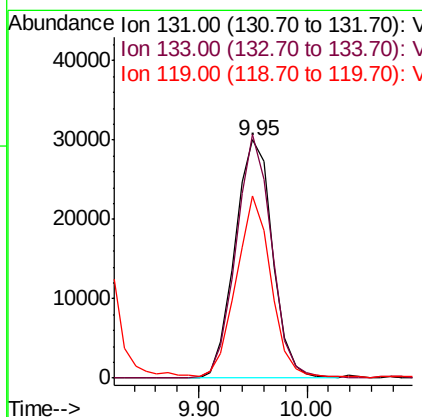
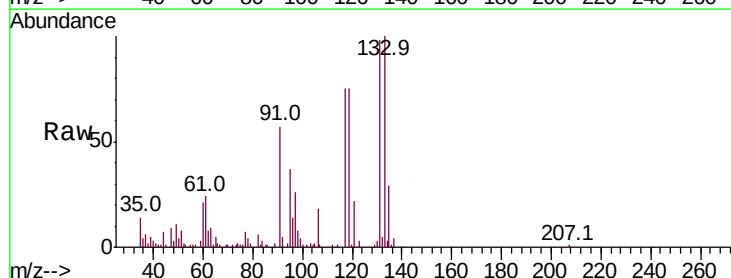
Instrument :  
MSVOA\_F  
ClientSampleId :

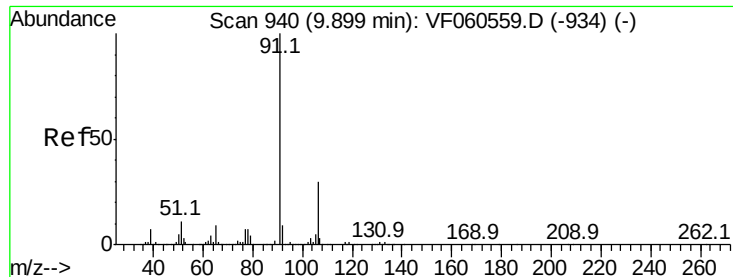
Tot Ion:112 Resp: 175442  
Ion Ratio Lower Upper  
112 100  
114 32.3 26.6 40.0



#66  
1,1,1,2-Tetrachloroethane  
Concen: 21.075 ug/l  
RT: 9.95 min Scan# 945  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Tgt Ion:131 Resp: 72498  
Ion Ratio Lower Upper  
131 100  
133 102.1 49.5 148.7  
119 76.3 35.2 105.6

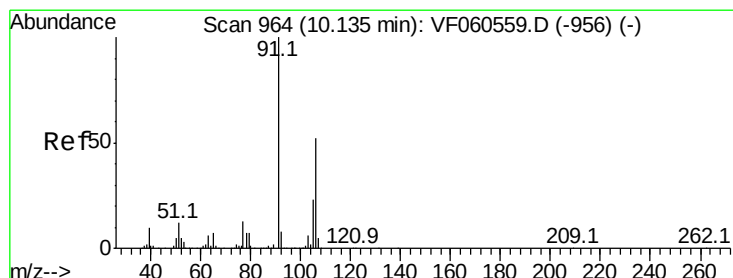
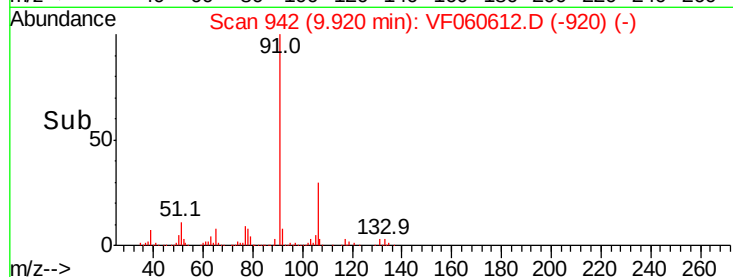
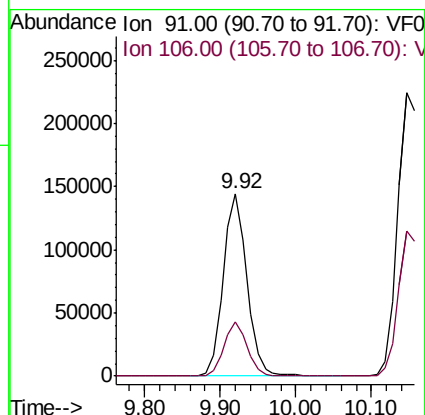
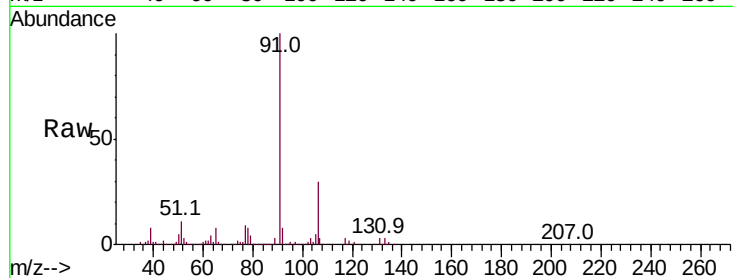




#67  
Ethyl Benzene  
Concen: 21.277 ug/l  
RT: 9.92 min Scan# 942  
Delta R.T. 0.02 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

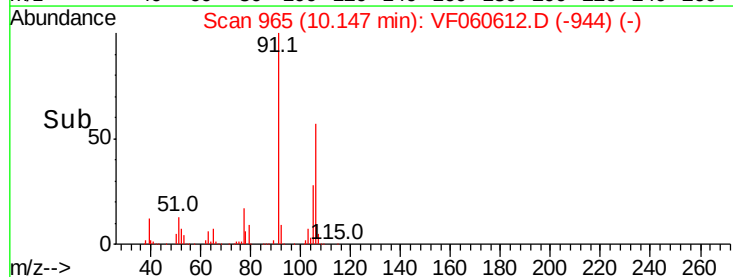
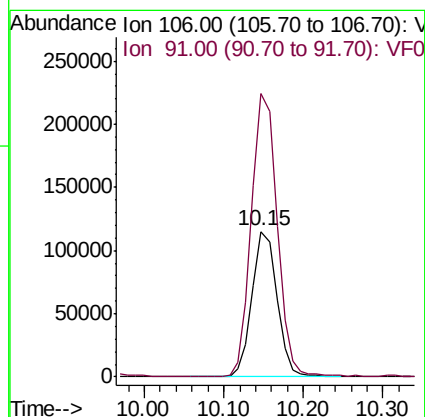
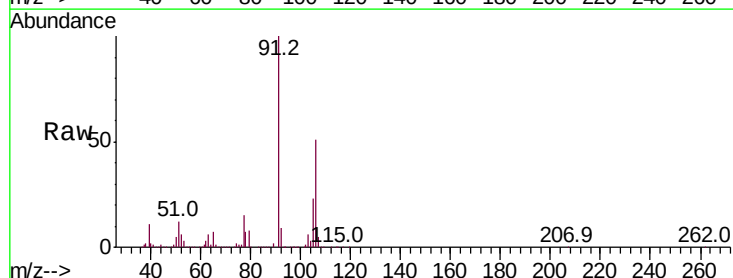
Instrument :  
MSVOA\_F  
ClientSampleId :

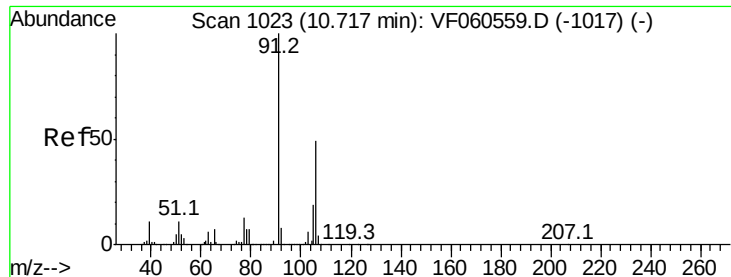
Tot Ion: 91 Resp: 314336  
Ion Ratio Lower Upper  
91 100  
106 30.0 24.2 36.4



#68  
m/p-Xylenes  
Concen: 44.914 ug/l  
RT: 10.15 min Scan# 965  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Tgt Ion: 106 Resp: 249950  
Ion Ratio Lower Upper  
106 100  
91 194.7 153.9 230.9

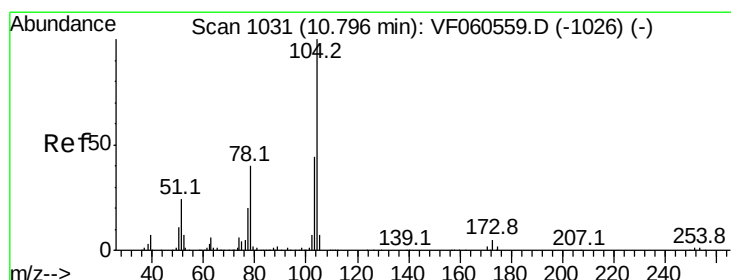
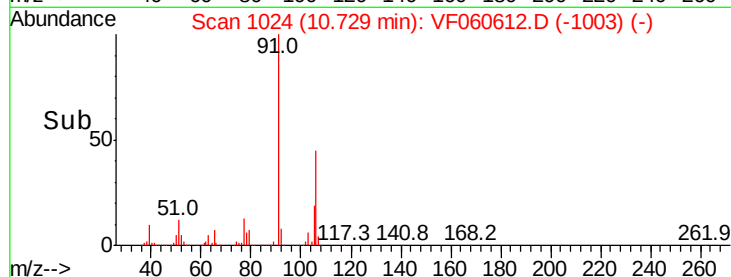
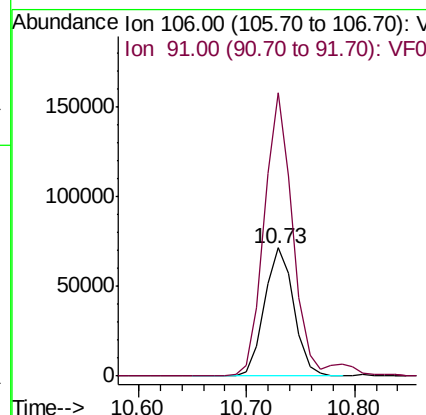
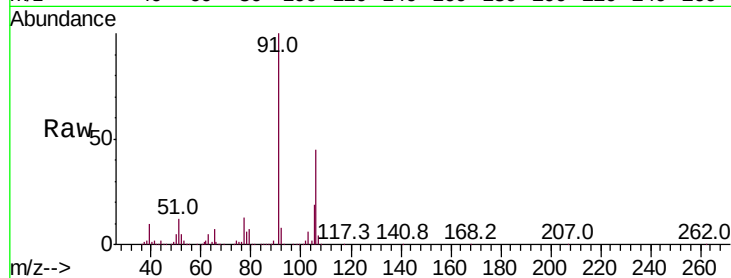




#69  
o-Xylene  
Concen: 22.466 ug/l  
RT: 10.73 min Scan# 1024  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

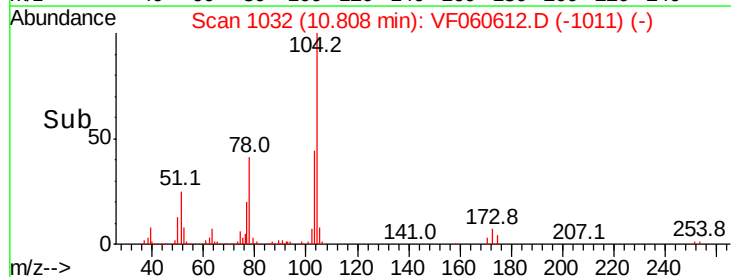
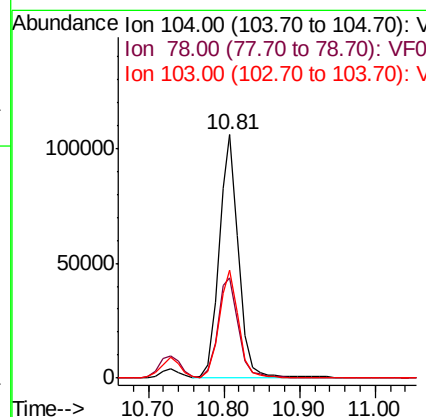
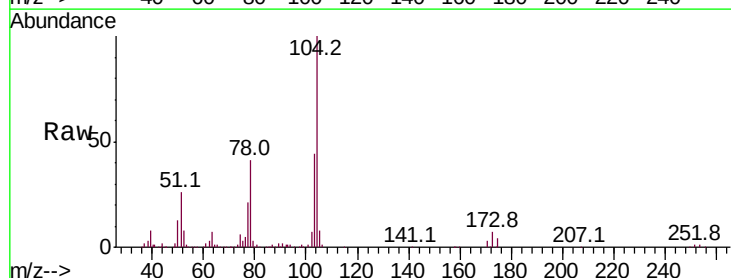
Instrument :  
MSVOA\_F  
ClientSampleId :

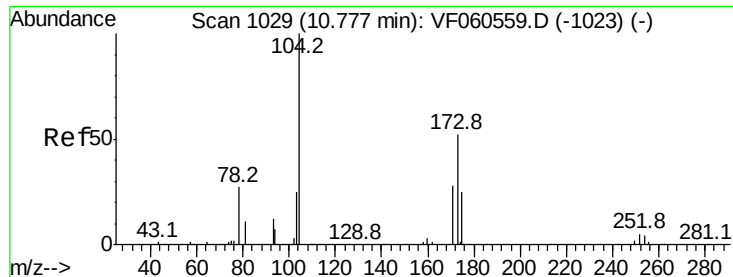
Tot Ion:106 Resp: 136521  
Ion Ratio Lower Upper  
106 100  
91 220.8 101.8 305.3



#70  
Styrene  
Concen: 21.538 ug/l  
RT: 10.81 min Scan# 1032  
Delta R.T. 0.01 min  
Lab File: VF060612.D  
Acq: 6 Nov 2018 14:33

Tgt Ion:104 Resp: 189612  
Ion Ratio Lower Upper  
104 100  
78 40.9 32.6 49.0  
103 44.1 35.2 52.8





#71

Bromoform

Concen: 21.642 ug/l

RT: 10.79 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

ClientSampleId :

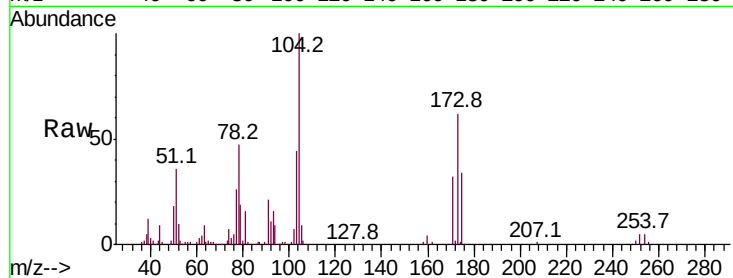
Tot Ion:173 Resp: 38451

Ion Ratio Lower Upper

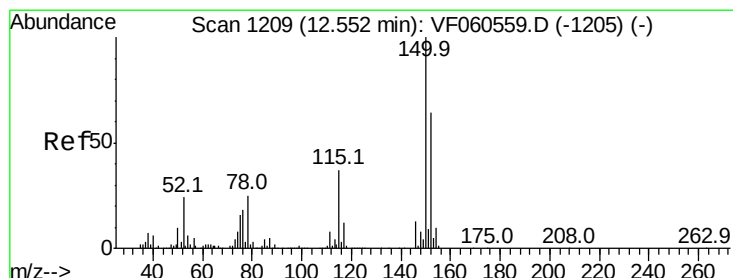
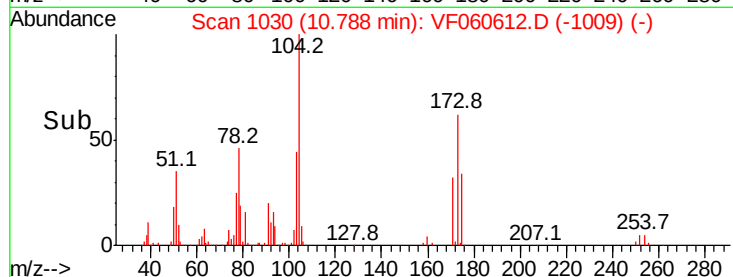
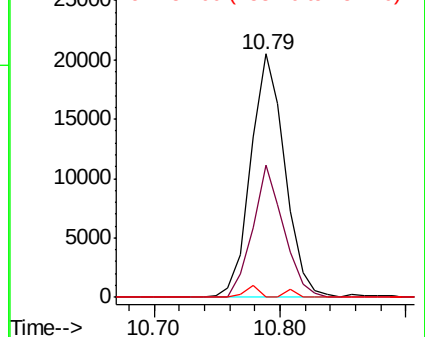
173 100

175 55.0 24.3 72.9

254 0.0 6.7 10.1#



Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

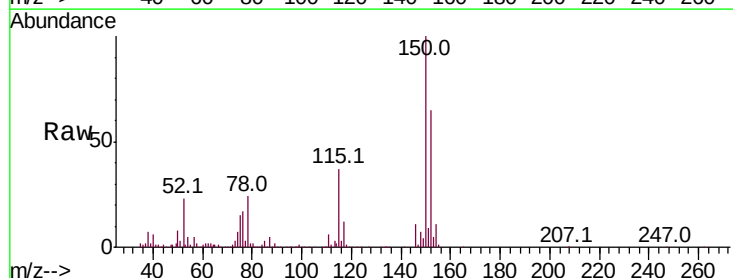
Tgt Ion:152 Resp: 219506

Ion Ratio Lower Upper

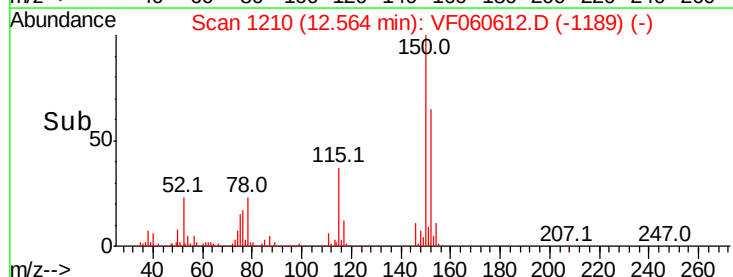
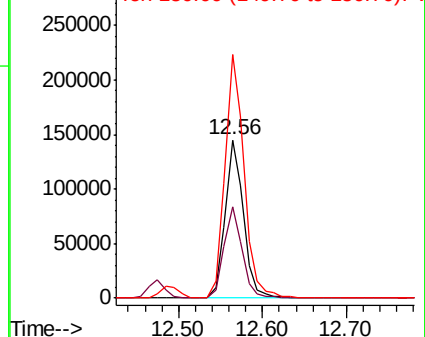
152 100

115 57.5 29.6 88.8

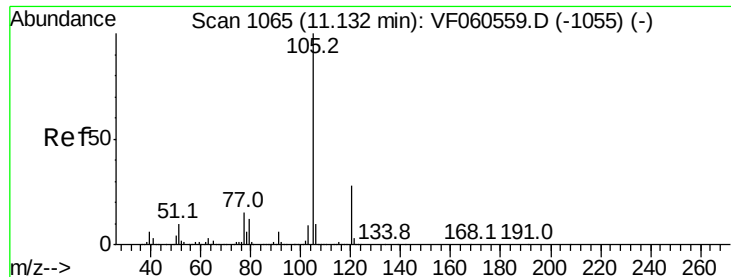
150 153.9 0.0 315.6



Abundance Ion 152.00 (151.70 to 152.70): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 150.00 (149.70 to 150.70): V







#73

Isopropylbenzene

Concen: 22.542 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

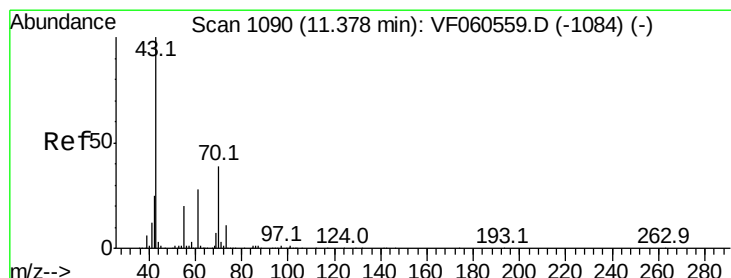
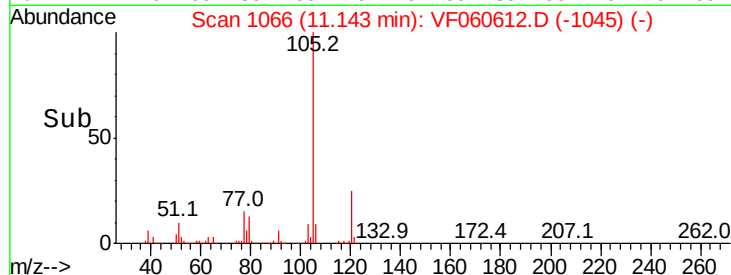
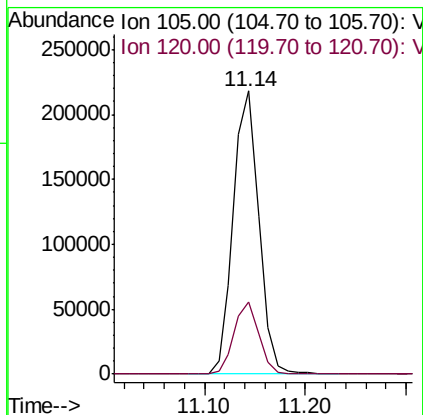
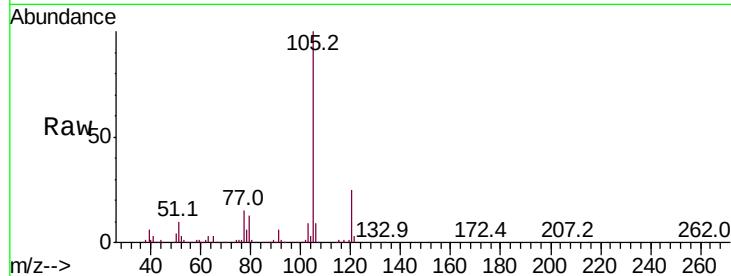
ClientSampleId :

Tot Ion:105 Resp: 385903

Ion Ratio Lower Upper

105 100

120 25.4 13.9 41.6



#74

N-ethyl acetate

Concen: 22.110 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Tgt Ion: 43 Resp: 104527

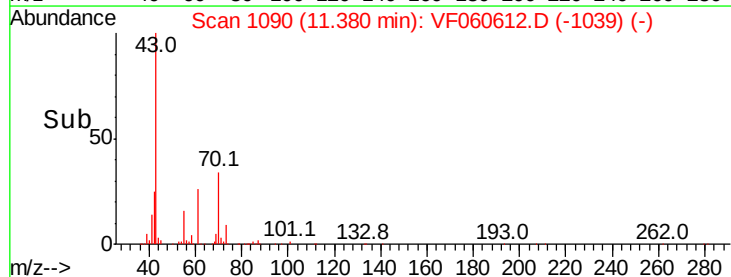
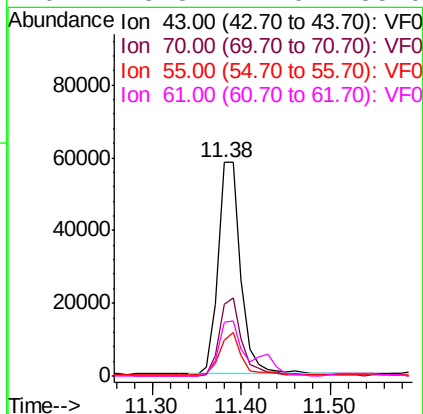
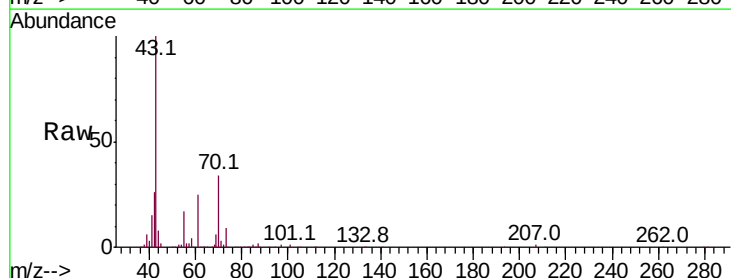
Ion Ratio Lower Upper

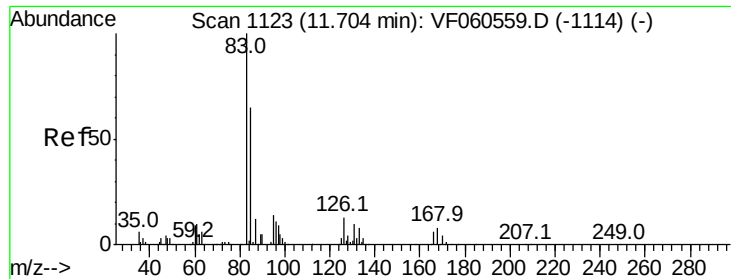
43 100

70 33.8 30.9 46.3

55 16.9 16.6 24.8

61 25.3 22.0 33.0





#75

1,1,2,2-Tetrachloroethane

Concen: 25.659 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

ClientSampleId :

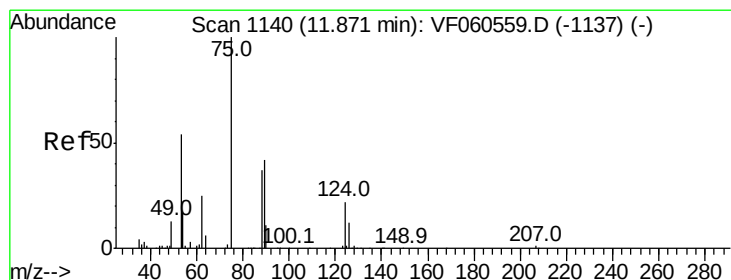
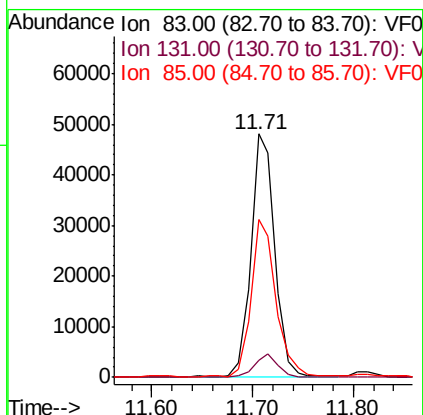
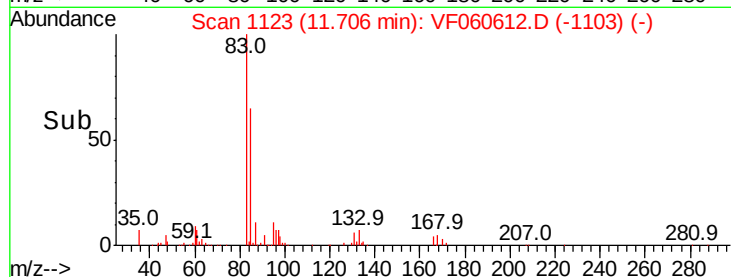
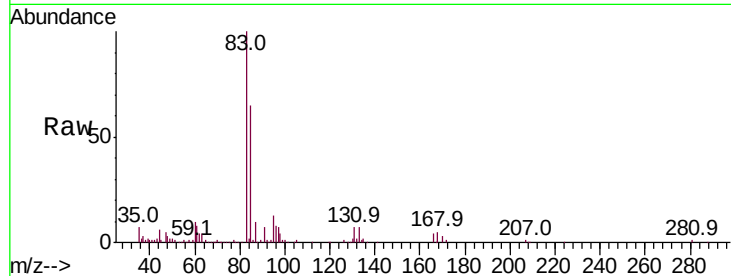
Tot Ion: 83 Resp: 80176

Ion Ratio Lower Upper

83 100

131 6.9 5.0 14.9

85 64.6 32.9 98.7



#76

1,2,3-Trichloropropane

Concen: 22.600 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF060612.D

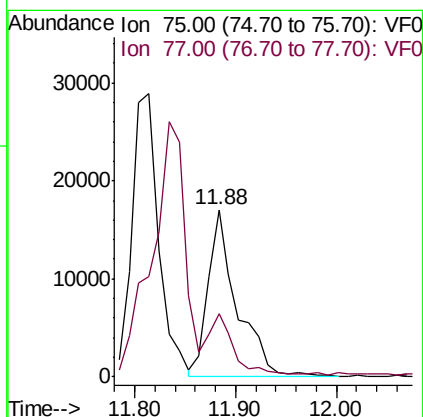
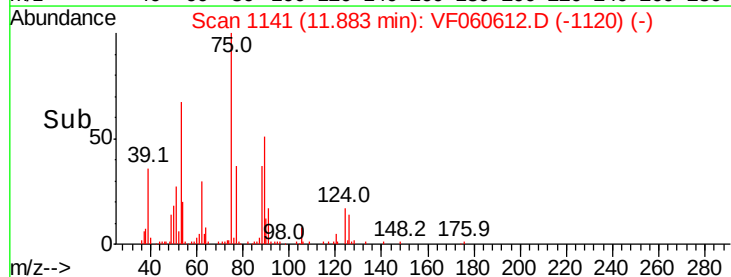
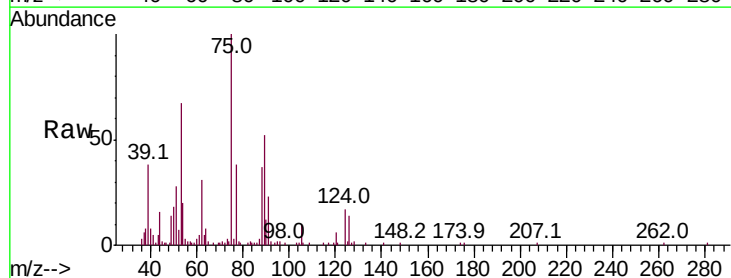
Acq: 6 Nov 2018 14:33

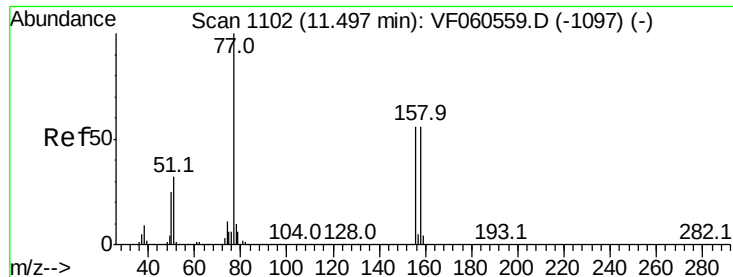
Tgt Ion: 75 Resp: 34705

Ion Ratio Lower Upper

75 100

77 38.2 17.4 52.3





#77

Bromobenzene

Concen: 21.872 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

ClientSampleId :

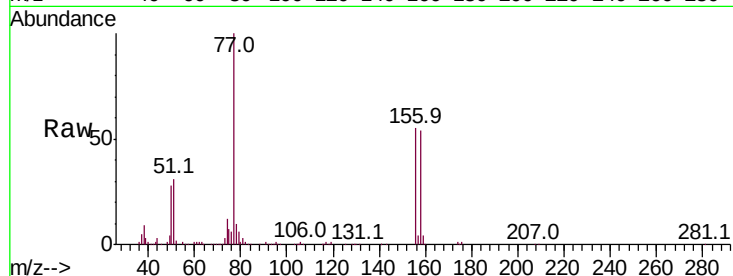
Tot Ion:156 Resp: 81929

Ion Ratio Lower Upper

156 100

77 180.4 89.3 268.1

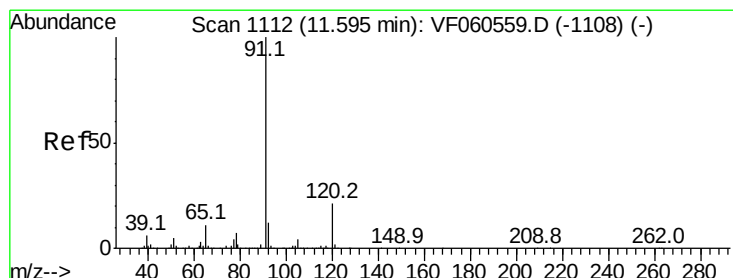
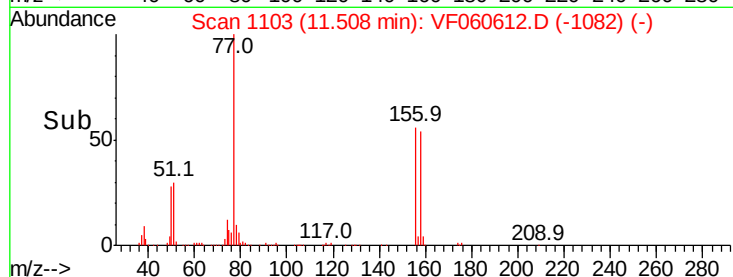
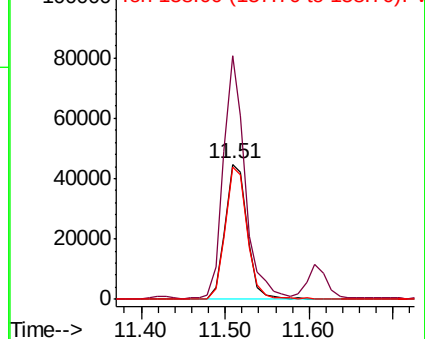
158 97.8 50.0 150.1



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 22.077 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF060612.D

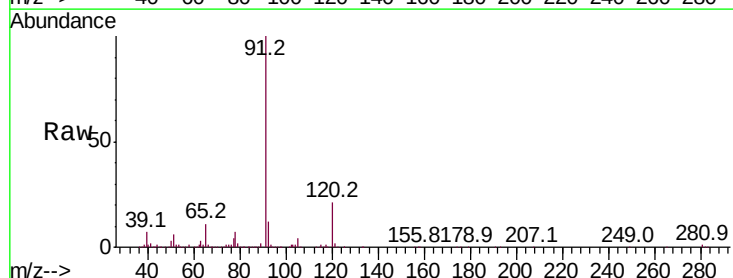
Acq: 6 Nov 2018 14:33

Tgt Ion: 91 Resp: 442188

Ion Ratio Lower Upper

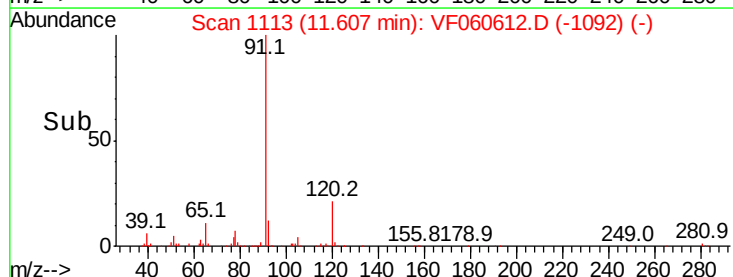
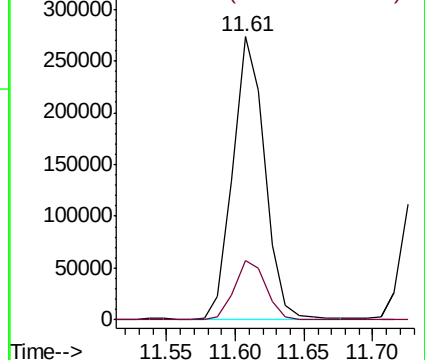
91 100

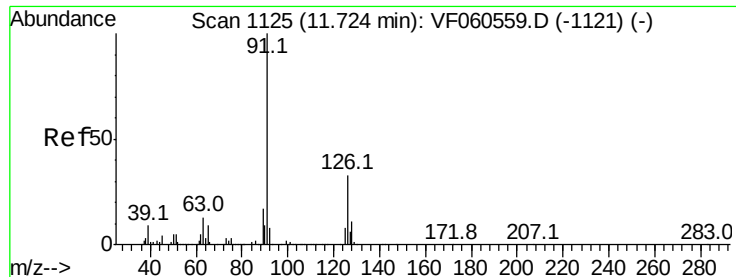
120 21.1 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.909 ug/l

RT: 11.74 min Scan# 1126

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

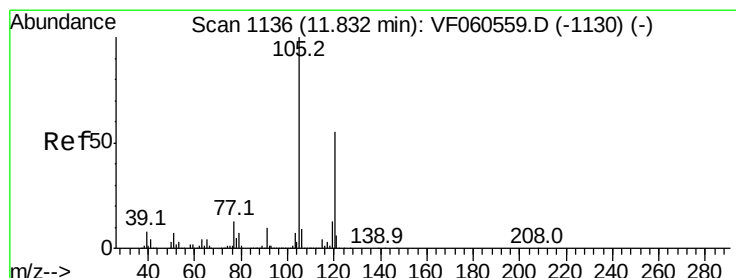
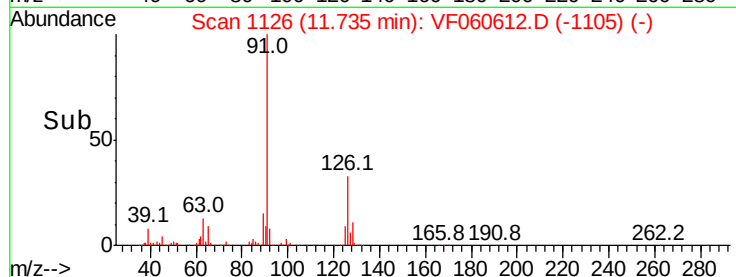
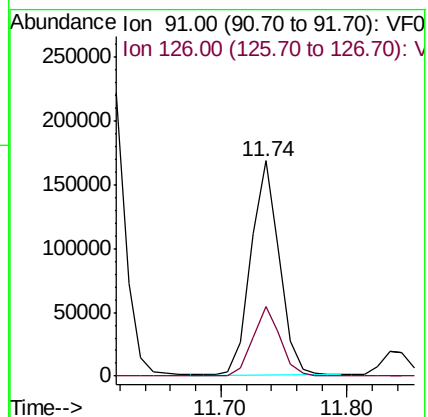
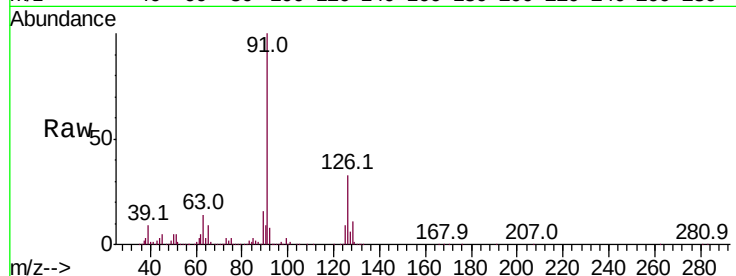
ClientSampleId :

Tot Ion: 91 Resp: 262044

Ion Ratio Lower Upper

91 100

126 32.6 16.5 49.5



#80

1,3,5-Trimethylbenzene

Concen: 21.860 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF060612.D

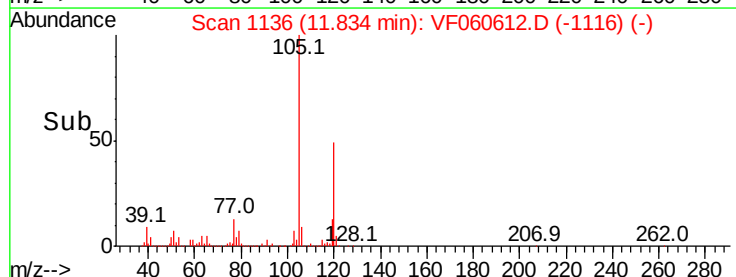
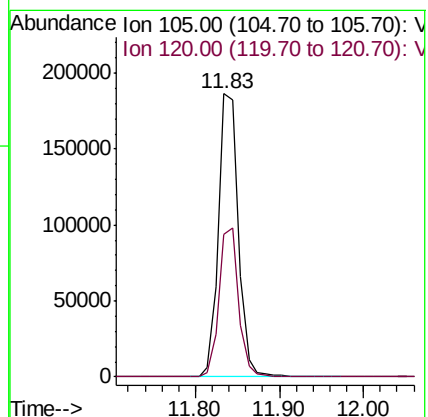
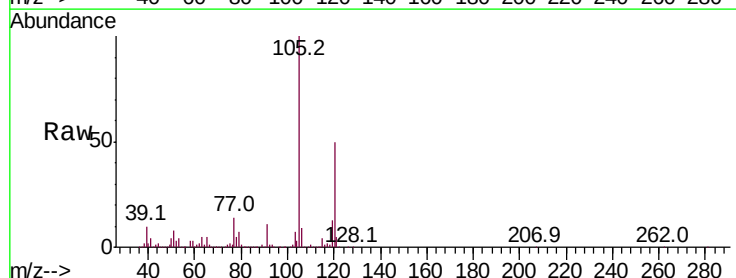
Acq: 6 Nov 2018 14:33

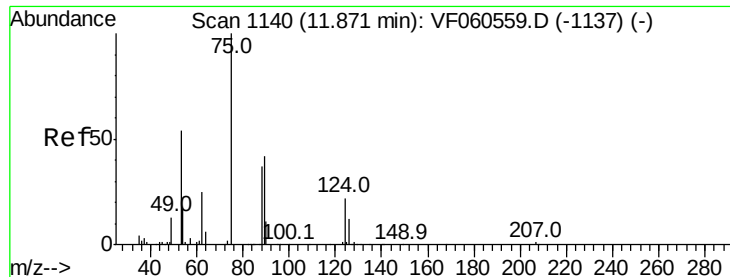
Tgt Ion:105 Resp: 308462

Ion Ratio Lower Upper

105 100

120 50.5 27.6 82.8





#81

trans-1,4-Dichloro-2-butene

Concen: 28.757 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

ClientSampleId :

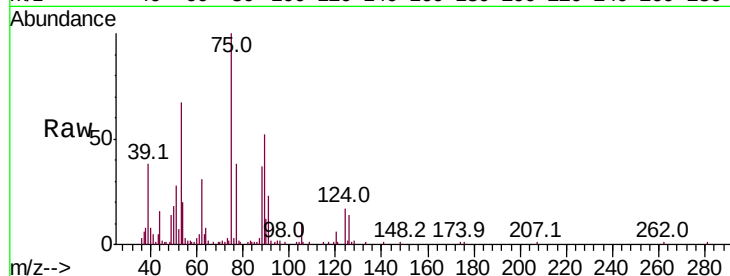
Tot Ion: 75 Resp: 34705

Ion Ratio Lower Upper

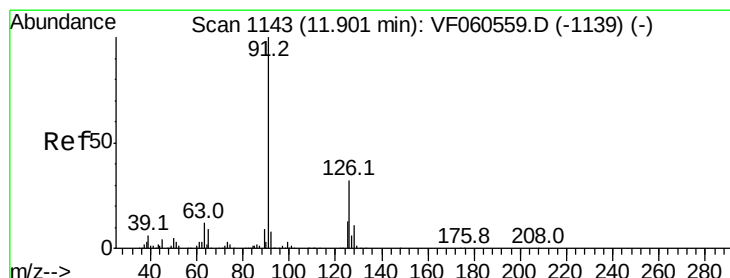
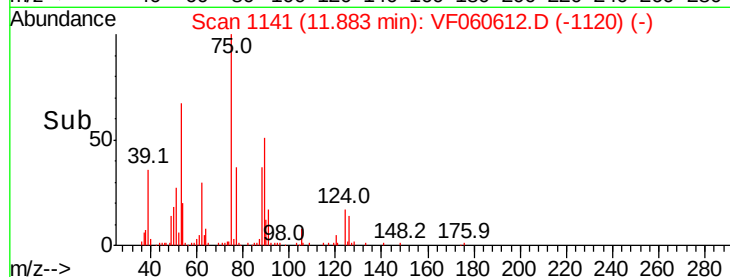
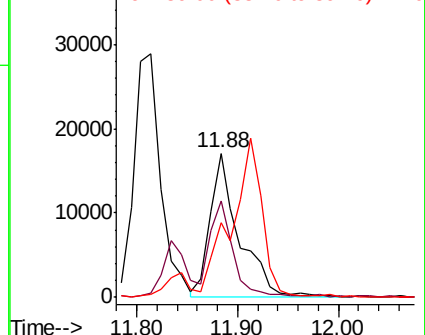
75 100

53 66.7 51.6 77.4

89 51.6 36.7 55.1



Abundance Ion 75.00 (74.70 to 75.70): VF0  
Ion 53.00 (52.70 to 53.70): VF0  
Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 22.302 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VF060612.D

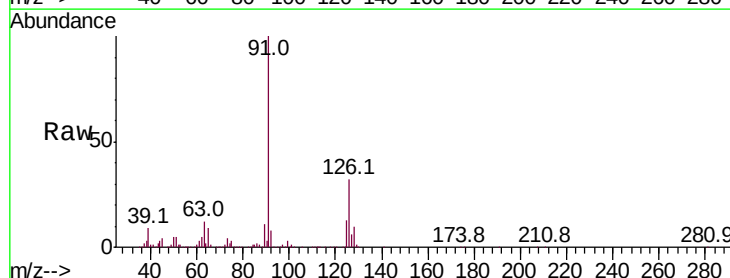
Acq: 6 Nov 2018 14:33

Tgt Ion: 91 Resp: 266154

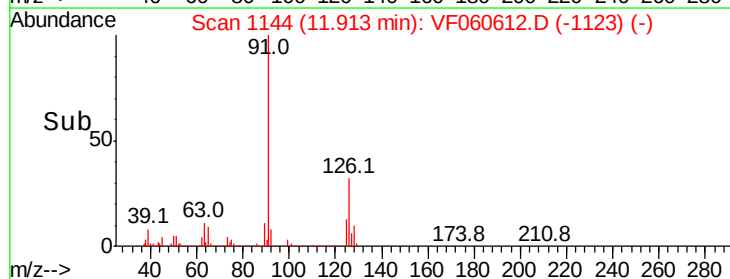
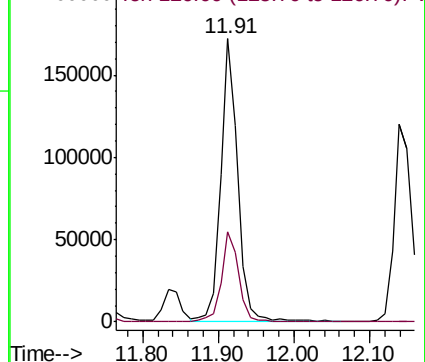
Ion Ratio Lower Upper

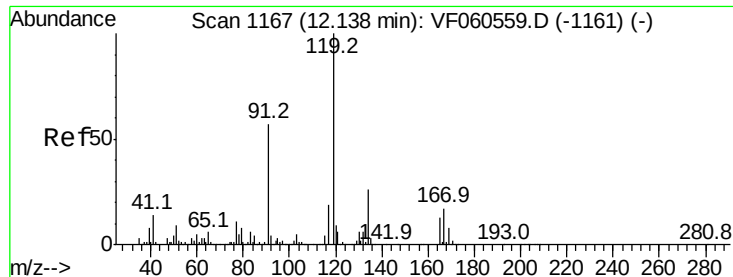
91 100

126 31.7 15.9 47.7



Abundance Ion 91.00 (90.70 to 91.70): VF0  
Ion 126.00 (125.70 to 126.70): V

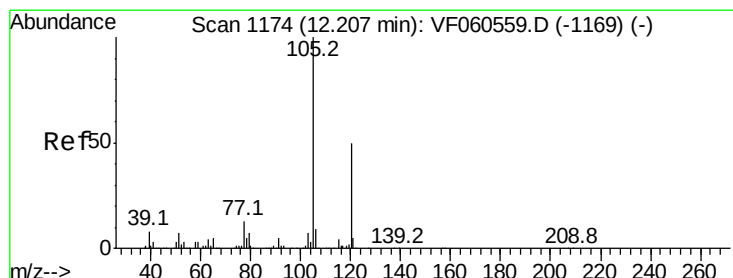
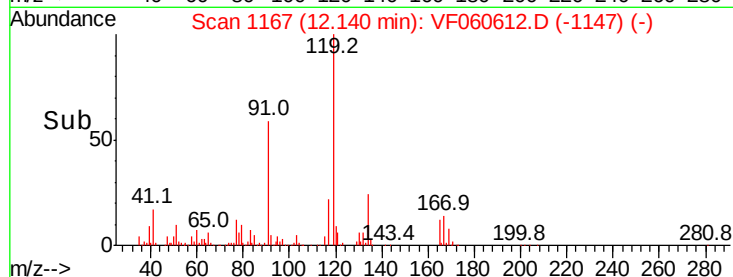
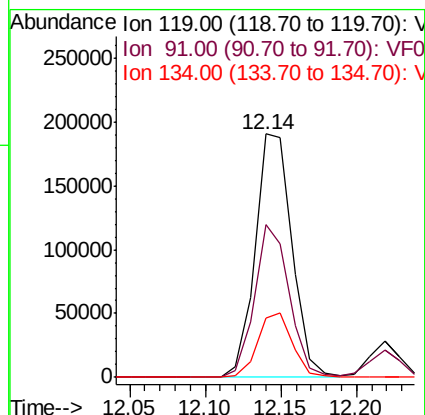
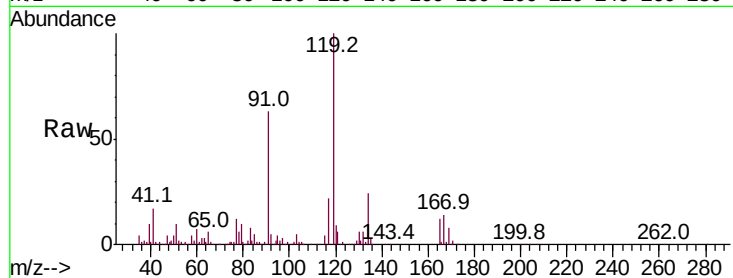




#83  
 tert-Butylbenzene  
 Concen: 22.549 ug/l  
 RT: 12.14 min Scan# 1167  
 Delta R.T. 0.00 min  
 Lab File: VF060612.D  
 Acq: 6 Nov 2018 14:33

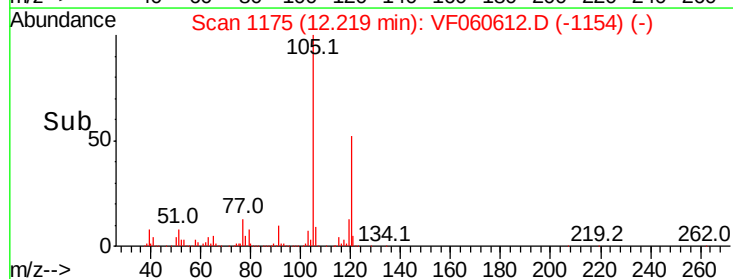
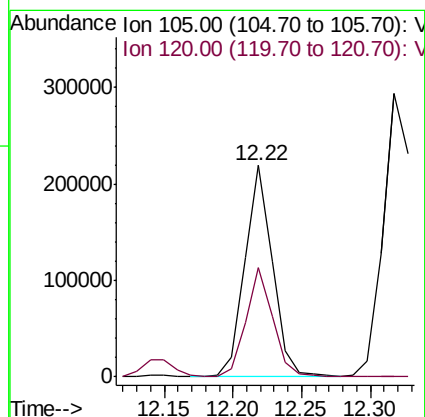
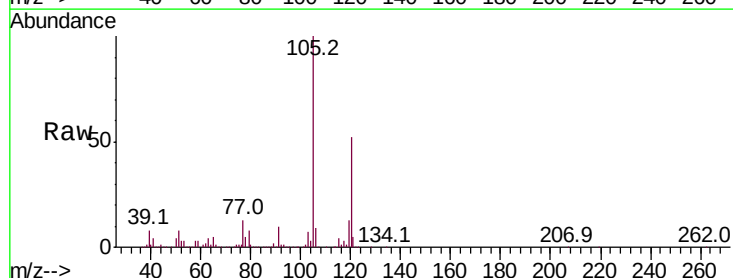
Instrument :  
 MSVOA\_F  
 ClientSampleId :

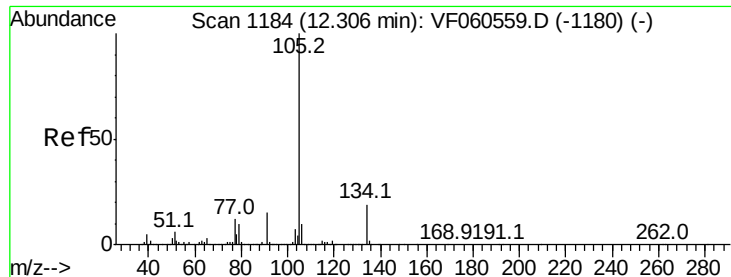
Tot Ion:119 Resp: 325044  
 Ion Ratio Lower Upper  
 119 100  
 91 62.8 28.8 86.4  
 134 24.3 13.2 39.6



#84  
 1,2,4-Trimethylbenzene  
 Concen: 22.340 ug/l  
 RT: 12.22 min Scan# 1175  
 Delta R.T. 0.01 min  
 Lab File: VF060612.D  
 Acq: 6 Nov 2018 14:33

Tgt Ion:105 Resp: 308706  
 Ion Ratio Lower Upper  
 105 100  
 120 51.8 25.6 76.8





#85

sec-Butylbenzene

Concen: 22.646 ug/l

RT: 12.32 min Scan# 1185

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

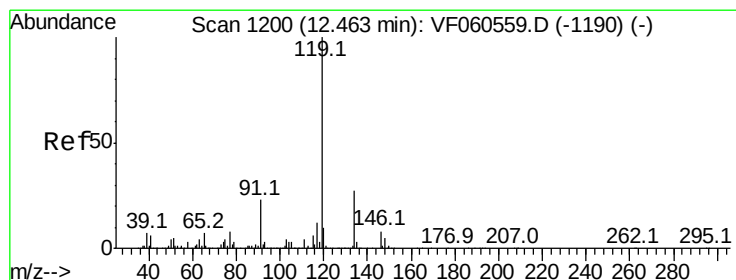
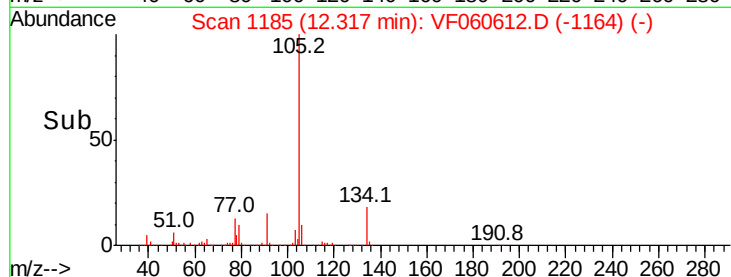
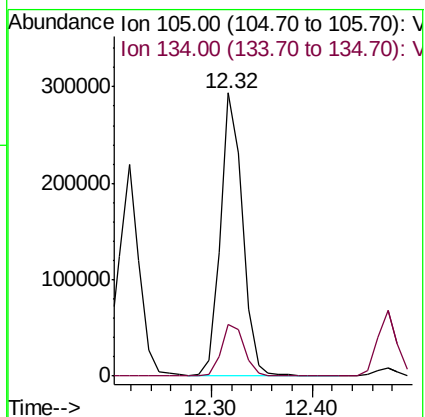
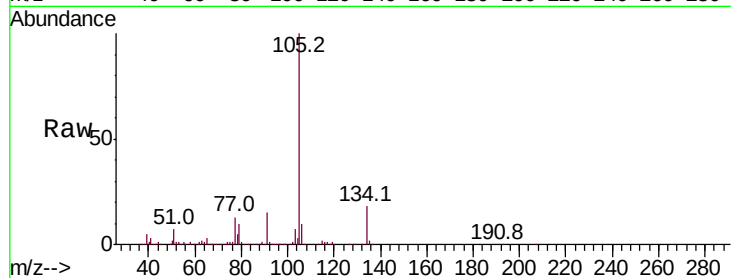
ClientSampleId :

Tot Ion:105 Resp: 449076

Ion Ratio Lower Upper

105 100

134 18.3 9.7 29.1



#86

p-Isopropyltoluene

Concen: 22.512 ug/l

RT: 12.48 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

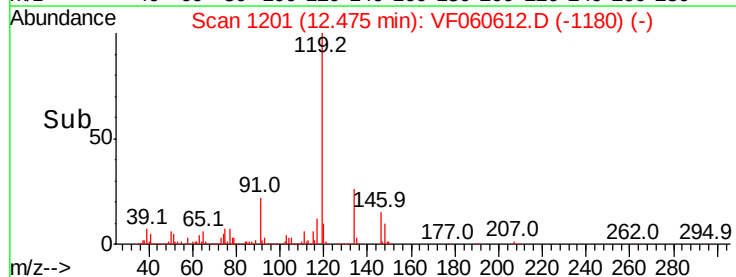
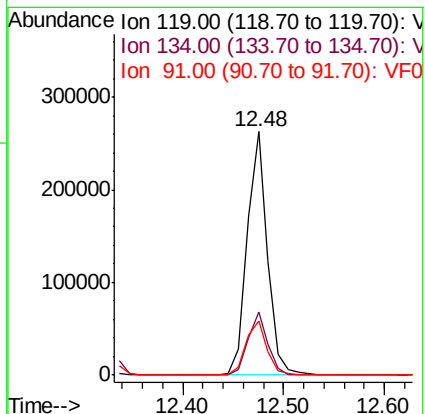
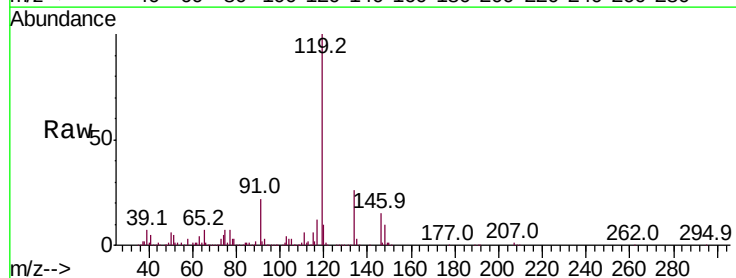
Tgt Ion:119 Resp: 367619

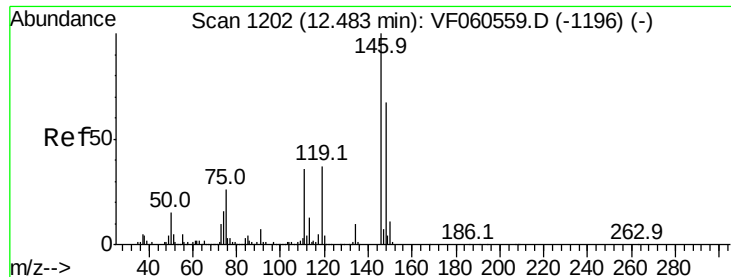
Ion Ratio Lower Upper

119 100

134 26.0 13.6 40.7

91 22.3 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 22.074 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

ClientSampleId :

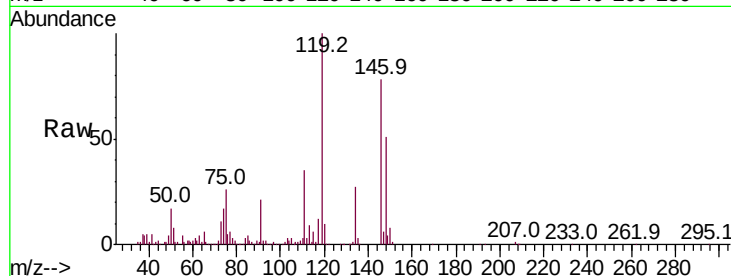
Tot Ion:146 Resp: 162295

Ion Ratio Lower Upper

146 100

111 44.0 18.3 54.8

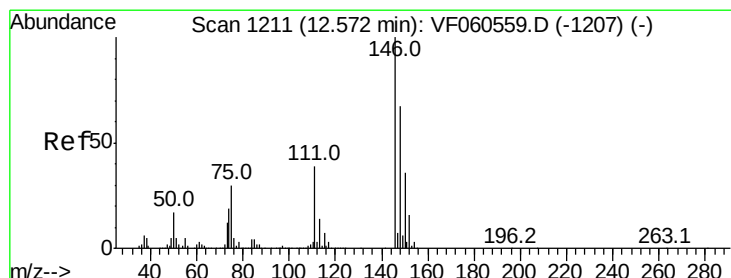
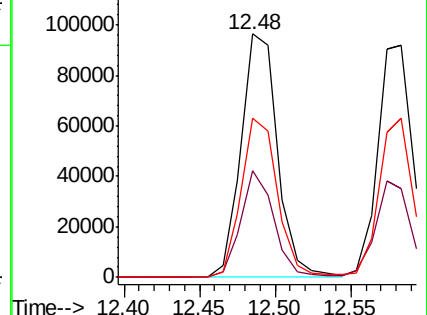
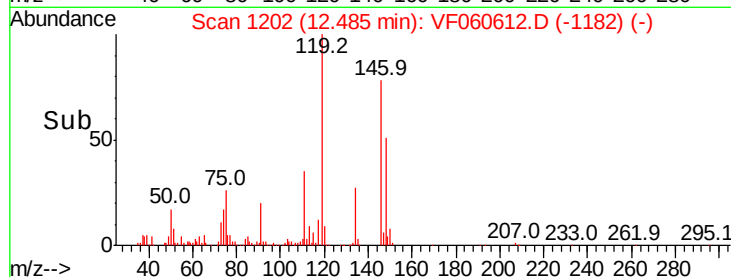
148 65.3 33.5 100.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 22.249 ug/l

RT: 12.58 min Scan# 1212

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

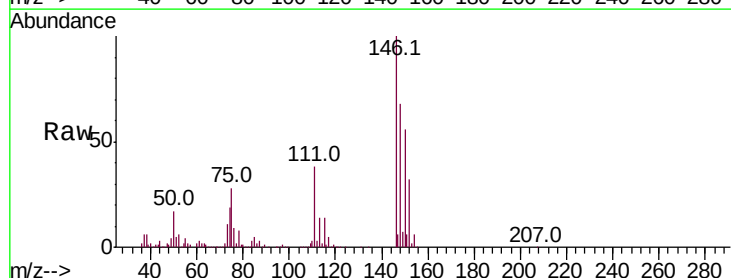
Tgt Ion:146 Resp: 155156

Ion Ratio Lower Upper

146 100

111 37.9 19.7 59.1

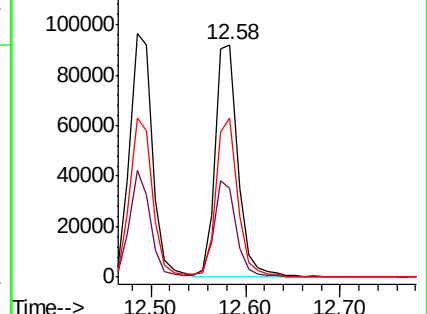
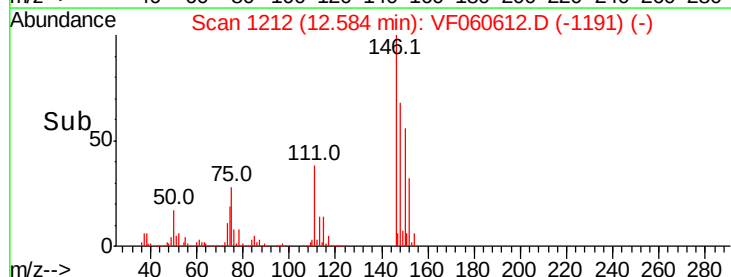
148 68.2 33.7 101.1



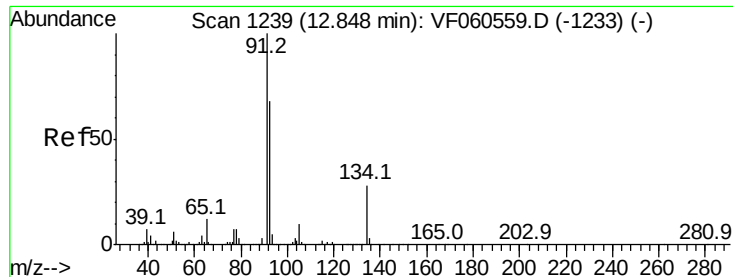
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V







#89

n-Butylbenzene

Concen: 20.669 ug/l

RT: 12.86 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

ClientSampled :

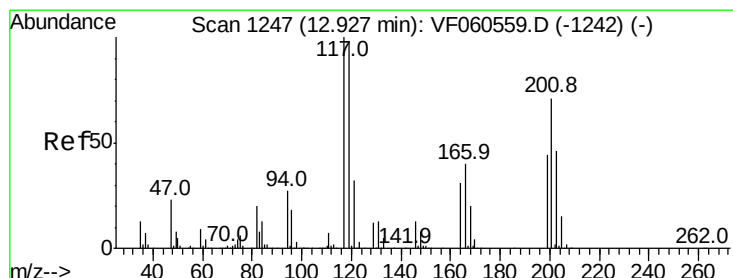
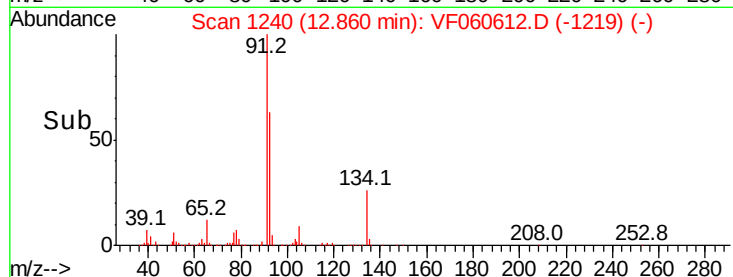
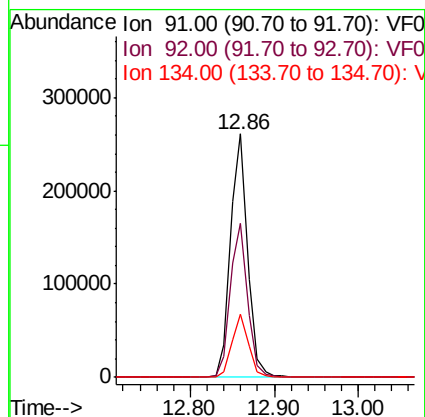
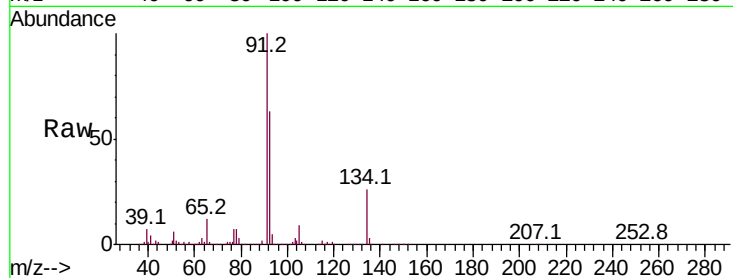
Tot Ion: 91 Resp: 368067

Ion Ratio Lower Upper

91 100

92 63.2 34.1 102.2

134 25.8 13.9 41.6



#90

Hexachloroethane

Concen: 21.809 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VF060612.D

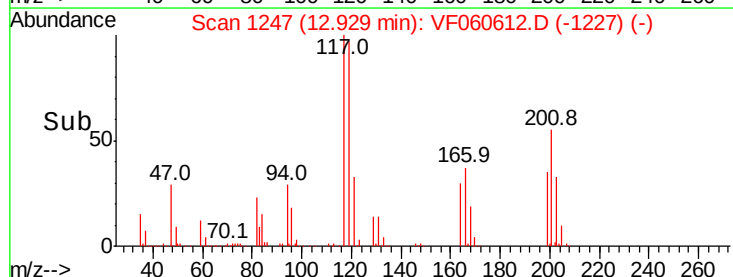
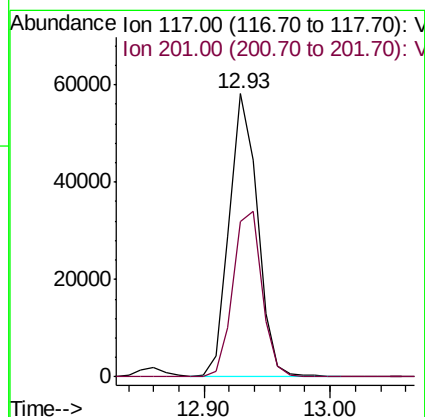
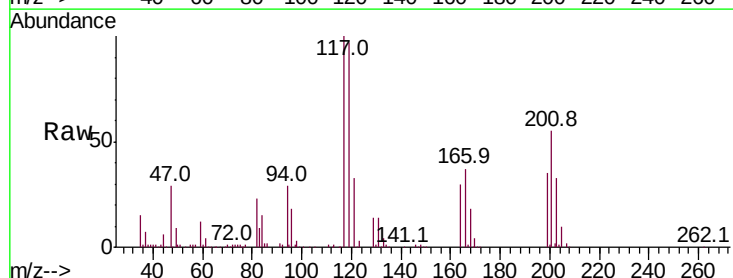
Acq: 6 Nov 2018 14:33

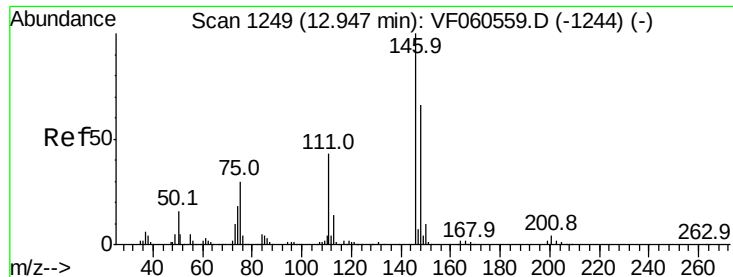
Tgt Ion: 117 Resp: 90567

Ion Ratio Lower Upper

117 100

201 54.7 35.2 105.6





#91

1,2-Dichlorobenzene

Concen: 23.175 ug/l

RT: 12.96 min Scan# 1250

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

ClientSampleId :

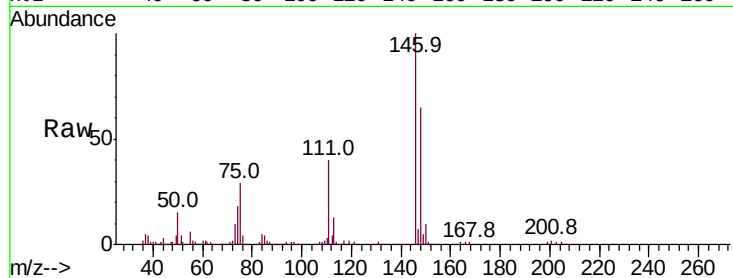
Tot Ion:146 Resp: 159408

Ion Ratio Lower Upper

146 100

111 40.0 21.3 64.0

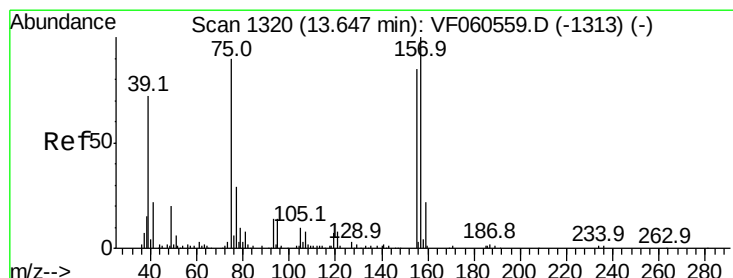
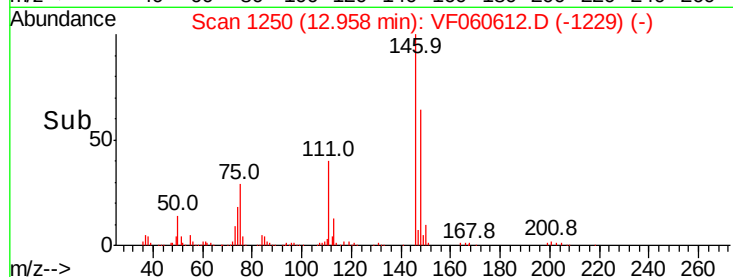
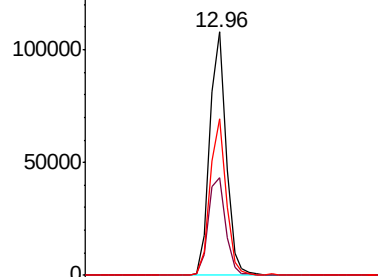
148 64.5 32.9 98.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 23.615 ug/l

RT: 13.66 min Scan# 1321

Delta R.T. 0.01 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

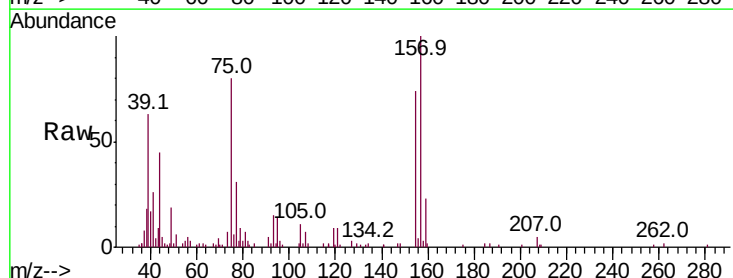
Tgt Ion: 75 Resp: 12820

Ion Ratio Lower Upper

75 100

155 92.7 47.3 141.8

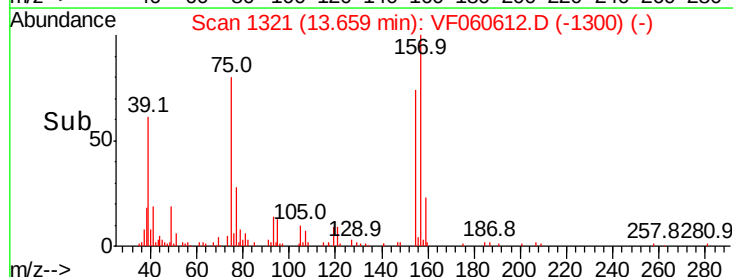
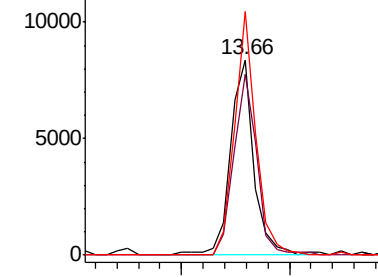
157 124.7 55.3 165.9

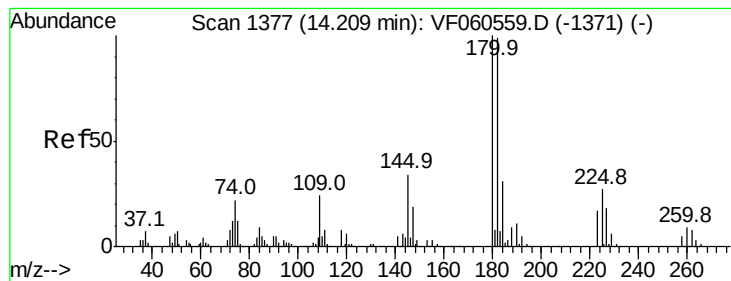


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#93

1,2,4-Trichlorobenzene

Concen: 23.601 ug/l

RT: 14.21 min Scan# 1377

Delta R.T. 0.00 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

ClientSampled :

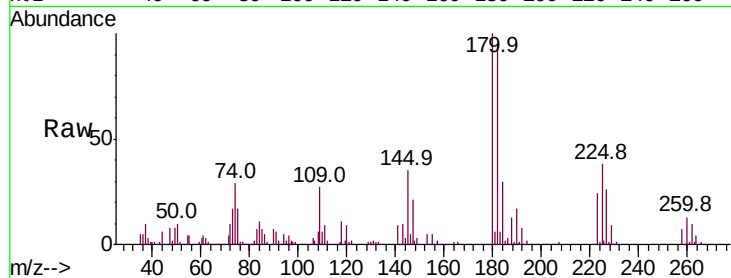
Tot Ion:180 Resp: 110285

Ion Ratio Lower Upper

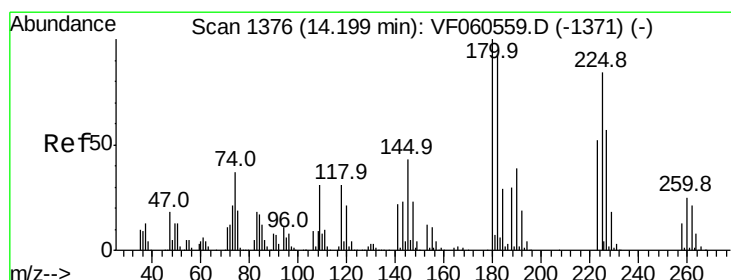
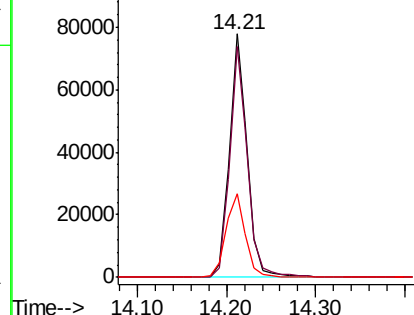
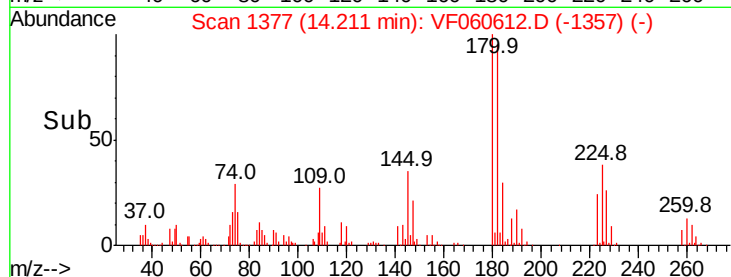
180 100

182 94.6 49.7 149.1

145 34.5 16.9 50.7



Abundance Ion 180.00 (179.70 to 180.70): V  
Ion 182.00 (181.70 to 182.70): V  
Ion 145.00 (144.70 to 145.70): V



#94

Hexachlorobutadiene

Concen: 22.007 ug/l

RT: 14.20 min Scan# 1376

Delta R.T. 0.00 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

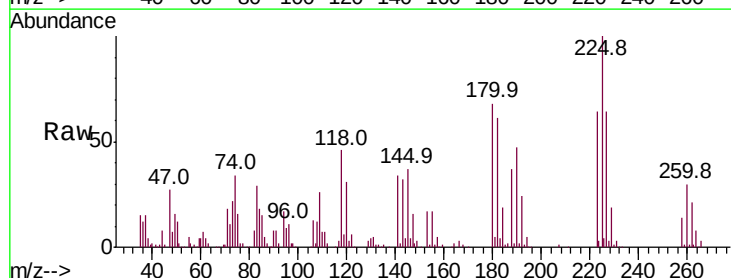
Tgt Ion:225 Resp: 66636

Ion Ratio Lower Upper

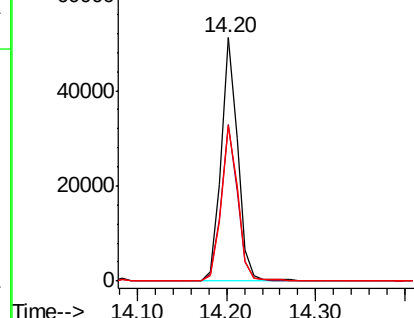
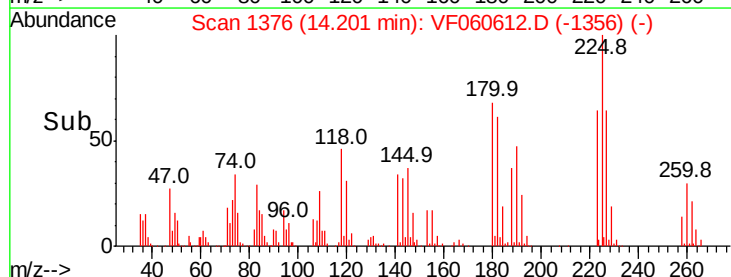
225 100

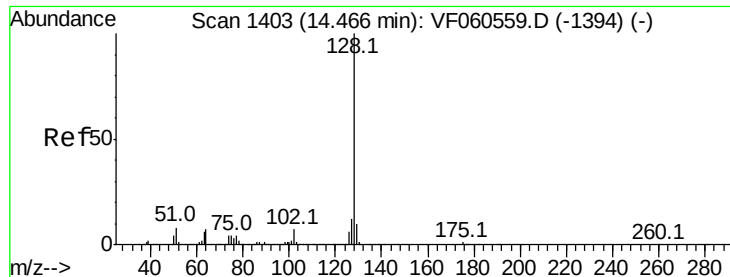
223 64.4 30.9 92.5

227 63.6 33.9 101.6



Abundance Ion 225.00 (224.70 to 225.70): V  
Ion 223.00 (222.70 to 223.70): V  
Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 21.679 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.00 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

Instrument :

MSVOA\_F

ClientSampleId :

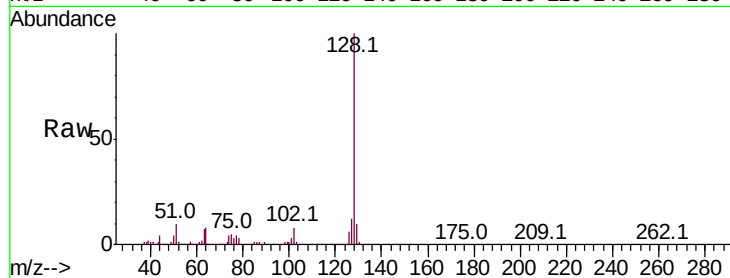
Tot Ion:128 Resp: 202759

Ion Ratio Lower Upper

128 100

127 12.1 9.4 14.0

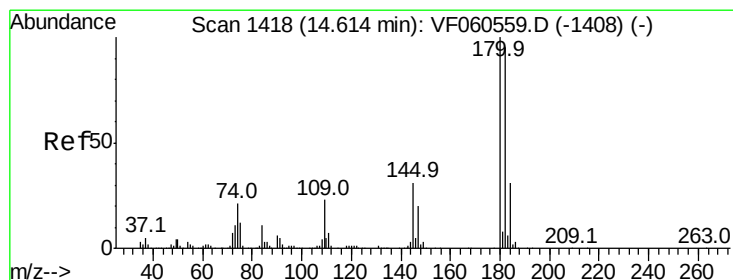
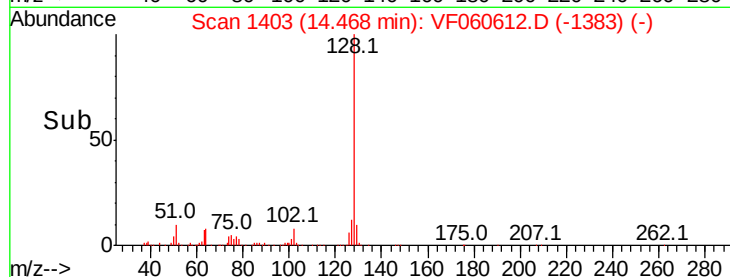
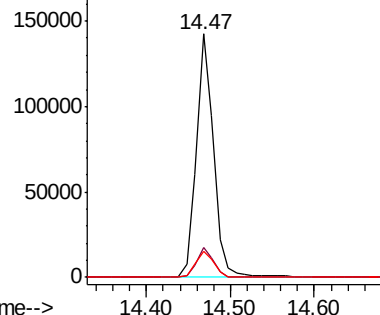
129 10.5 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 22.656 ug/l

RT: 14.62 min Scan# 1418

Delta R.T. 0.00 min

Lab File: VF060612.D

Acq: 6 Nov 2018 14:33

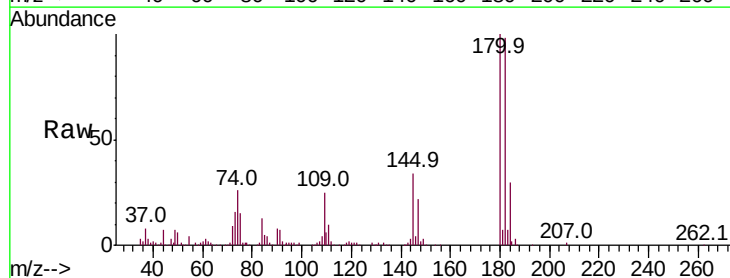
Tgt Ion:180 Resp: 100008

Ion Ratio Lower Upper

180 100

182 98.2 47.3 142.0

145 34.3 15.6 46.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

