

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072018\  
 Data File : VF059590.D  
 Acq On : 20 Jul 2018 19:36  
 Operator : VA/AP  
 Sample : VF0720SBS01  
 Misc : 5.00µ/5mL/MSVOA F/SOIL  
 ALS Vial : 85 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Jul 20 23:27:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F071718S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 18 04:09:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.04  | 168  | 236963   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.76  | 114  | 353688   | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 356913   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 220586   | 50.00 | ug/l  | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.01  | 65   | 189123   | 51.32 | ug/l    | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 102.64% |          |
| 35) Dibromofluoromethane    | 4.29  | 113  | 158761   | 51.83 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 103.66% |          |
| 50) Toluene-d8              | 7.70  | 98   | 386002   | 50.03 | ug/l    | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 100.06% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 213606   | 52.77 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 105.54% |          |

| Target Compounds              | R.T. | QIon | Response | Conc      | Units  | Qvalue |
|-------------------------------|------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.98 | 85   | 61576    | 21.209    | ug/l   | 93     |
| 3) Chloromethane              | 1.08 | 50   | 33456    | 20.943    | ug/l   | 95     |
| 4) Vinyl Chloride             | 1.14 | 62   | 37095    | 23.014    | ug/l   | 93     |
| 5) Bromomethane               | 1.34 | 94   | 31100    | 27.841    | ug/l   | 94     |
| 6) Chloroethane               | 1.42 | 64   | 20141    | 24.781    | ug/l # | 81     |
| 7) Trichlorofluoromethane     | 1.48 | 101  | 31039    | 7.868     | ug/l   | 99     |
| 8) Diethyl Ether              | 1.69 | 74   | 16074    | 21.175    | ug/l   | 87     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.90 | 101  | 50040    | 30.037    | ug/l # | 87     |
| 10) Methyl Iodide             | 1.95 | 142  | 89430    | 30.665    | ug/l   | 98     |
| 11) Tert butyl alcohol        | 2.67 | 59   | 16827    | 99.990    | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 1.85 | 96   | 40364    | 22.783    | ug/l   | 90     |
| 13) Acrolein                  | 1.94 | 56   | 315      | Below Cal |        | 88     |
| 14) Allyl chloride            | 2.18 | 41   | 68875    | 31.152    | ug/l   | 95     |
| 15) Acrylonitrile             | 3.06 | 53   | 31591    | 102.170   | ug/l   | 91     |
| 16) Acetone                   | 2.33 | 43   | 66662    | 105.134   | ug/l   | 99     |
| 17) Carbon Disulfide          | 1.83 | 76   | 105810   | 23.307    | ug/l   | 98     |
| 18) Methyl Acetate            | 2.52 | 43   | 41934    | 36.433    | ug/l   | 95     |
| 19) Methyl tert-butyl Ether   | 2.52 | 73   | 112999   | 20.332    | ug/l   | 99     |
| 20) Methylene Chloride        | 2.27 | 84   | 41799    | 22.631    | ug/l # | 84     |
| 21) trans-1,2-Dichloroethene  | 2.40 | 96   | 40496    | 24.722    | ug/l   | 89     |
| 22) Diisopropyl ether         | 2.92 | 45   | 134053   | 21.573    | ug/l # | 97     |
| 23) Vinyl Acetate             | 3.32 | 43   | 373237   | 102.789   | ug/l # | 96     |
| 24) 1,1-Dichloroethane        | 3.00 | 63   | 91971    | 23.967    | ug/l   | 98     |
| 25) 2-Butanone                | 4.49 | 43   | 82601    | 96.538    | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 3.75 | 77   | 75659    | 29.802    | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 3.63 | 96   | 49109    | 25.760    | ug/l   | 94     |
| 28) Bromochloromethane        | 3.88 | 49   | 35948    | 21.282    | ug/l # | 83     |
| 29) Tetrahydrofuran           | 4.25 | 42   | 33730    | 82.541    | ug/l   | 96     |
| 30) Chloroform                | 4.03 | 83   | 132233   | 23.854    | ug/l   | 94     |
| 31) Cyclohexane               | 3.85 | 56   | 56165    | 28.257    | ug/l # | 86     |
| 32) 1,1,1-Trichloroethane     | 4.27 | 97   | 113032   | 31.376    | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 4.45 | 75   | 83408    | 23.561    | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.28 | 43   | 32702    | 12.891    | ug/l # | 1      |
| 38) Carbon Tetrachloride      | 4.16 | 117  | 125250   | 30.873    | ug/l   | 99     |

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 ALS Vial : 85 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Jul 20 23:27:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F071718S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 18 04:09:10 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.63  | 83   | 73561    | 27.380  | ug/l   | 93       |
| 40) Benzene                    | 4.80  | 78   | 156478   | 22.784  | ug/l   | 94       |
| 41) Methacrylonitrile          | 4.91  | 41   | 16865    | 16.612  | ug/l # | 87       |
| 42) 1,2-Dichloroethane         | 5.11  | 62   | 97201    | 21.546  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 7.11  | 43   | 46133    | 18.135  | ug/l # | 93       |
| 44) Trichloroethene            | 5.67  | 130  | 59307    | 23.329  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 6.40  | 63   | 40532    | 21.262  | ug/l   | 91       |
| 46) Dibromomethane             | 6.25  | 93   | 37165    | 21.408  | ug/l   | 96       |
| 47) Bromodichloromethane       | 6.54  | 83   | 94611    | 21.172  | ug/l   | 98       |
| 48) Methyl methacrylate        | 6.87  | 41   | 32511    | 17.895  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 6.86  | 88   | 2981     | 326.052 | ug/l # | 74       |
| 51) 4-Methyl-2-Pentanone       | 8.40  | 43   | 160727   | 89.133  | ug/l   | 92       |
| 52) Toluene                    | 7.77  | 92   | 111254   | 22.335  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene      | 8.42  | 75   | 79464    | 19.332  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 7.45  | 75   | 88644    | 21.659  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 8.63  | 97   | 39893    | 20.670  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 8.75  | 69   | 46051    | 19.241  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.00  | 76   | 71633    | 20.991  | ug/l   | 92       |
| 58) 2-Chloroethyl Vinyl ether  | 7.78  | 63   | 25181    | 119.169 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.62  | 43   | 120688   | 88.558  | ug/l   | 99       |
| 60) Dibromochloromethane       | 8.86  | 129  | 69672    | 21.421  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.13  | 107  | 48653    | 20.317  | ug/l   | 93       |
| 64) Tetrachloroethene          | 8.30  | 164  | 59179    | 22.266  | ug/l   | 97       |
| 65) Chlorobenzene              | 9.94  | 112  | 155115   | 23.174  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.06 | 131  | 65346    | 21.433  | ug/l   | 96       |
| 67) Ethyl Benzene              | 10.03 | 91   | 279792   | 23.483  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.26 | 106  | 199861   | 47.526  | ug/l   | 94       |
| 69) o-Xylene                   | 10.82 | 106  | 104091   | 23.245  | ug/l   | 89       |
| 70) Styrene                    | 10.89 | 104  | 161077   | 23.402  | ug/l   | 98       |
| 71) Bromoform                  | 10.88 | 173  | 41415    | 19.556  | ug/l   | 96       |
| 73) Isopropylbenzene           | 11.23 | 105  | 322145   | 23.144  | ug/l   | 99       |
| 74) N-amyl acetate             | 11.46 | 43   | 67680    | 15.182  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.78 | 83   | 61045    | 20.108  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 11.88 | 75   | 49162    | 19.830  | ug/l   | 89       |
| 77) Bromobenzene               | 11.59 | 156  | 85968    | 22.034  | ug/l   | 92       |
| 78) n-propylbenzene            | 11.68 | 91   | 368294   | 23.066  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 237243   | 24.122  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.91 | 105  | 289797   | 24.847  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75   | 27505    | 24.287  | ug/l # | 87       |
| 82) 4-Chlorotoluene            | 11.99 | 91   | 252997   | 22.958  | ug/l   | 95       |
| 83) tert-Butylbenzene          | 12.21 | 119  | 279784   | 24.994  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 12.28 | 105  | 286232   | 23.853  | ug/l   | 95       |
| 85) sec-Butylbenzene           | 12.38 | 105  | 365717   | 25.689  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 12.54 | 119  | 305569   | 24.670  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 12.56 | 146  | 155555   | 23.241  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 12.65 | 146  | 150930   | 22.884  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.91 | 91   | 308994   | 26.655  | ug/l   | 95       |
| 90) Hexachloroethane           | 12.99 | 117  | 75948    | 26.993  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene        | 13.02 | 146  | 155020   | 24.216  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.71 | 75   | 11894    | 17.293  | ug/l   | 88       |

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Sample : VF0720SBS01  
Misc : 5.00µ/5mL/MSVOA F/SOIL  
ALS Vial : 85 Sample Multiplier: 1

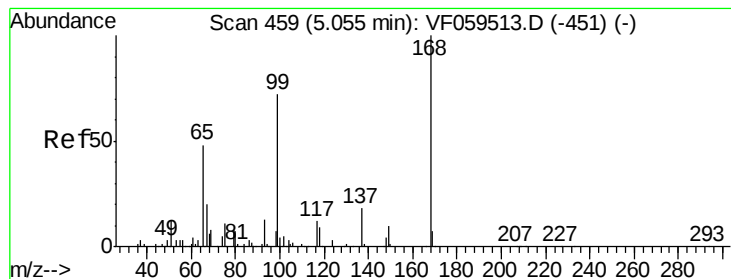
Instrument :  
MSVOA\_F  
ClientSampleId :

Quant Time: Jul 20 23:27:16 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F071718S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 18 04:09:10 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.26 | 180  | 111627   | 28.698 | ug/l  | 94       |
| 94) Hexachlorobutadiene    | 14.25 | 225  | 67909    | 34.080 | ug/l  | 98       |
| 95) Naphthalene            | 14.52 | 128  | 179166   | 22.172 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.67 | 180  | 99098    | 28.197 | ug/l  | 97       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

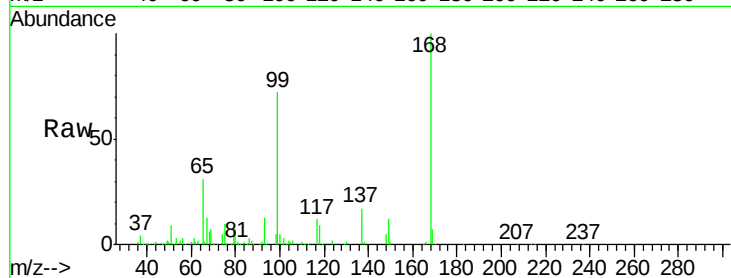
ClientSampled :

Tot Ion:168 Resp: 236963

Ion Ratio Lower Upper

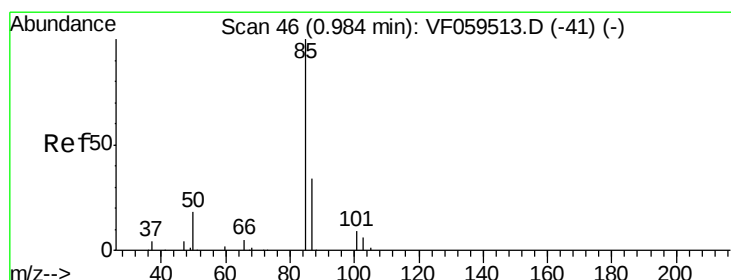
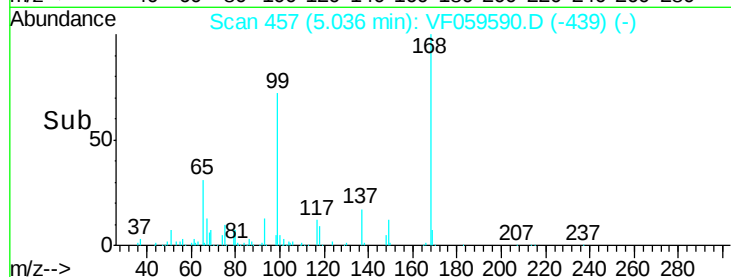
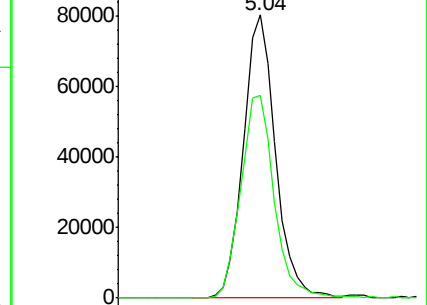
168 100

99 71.5 57.6 86.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 21.209 ug/l

RT: 0.98 min Scan# 46

Delta R.T. 0.00 min

Lab File: VF059590.D

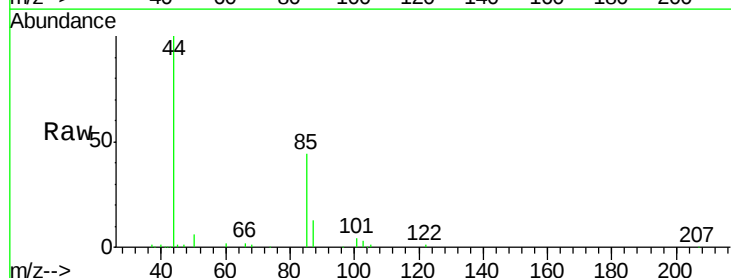
Acq: 20 Jul 2018 19:36

Tgt Ion: 85 Resp: 61576

Ion Ratio Lower Upper

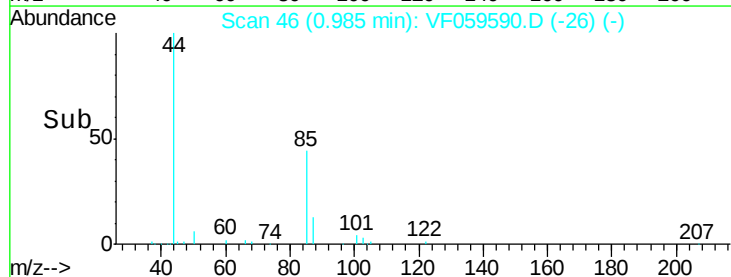
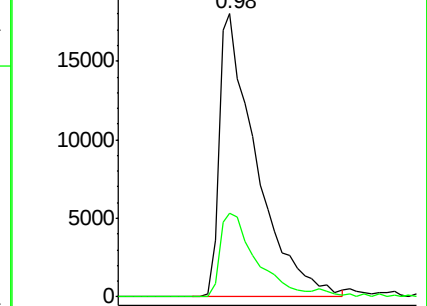
85 100

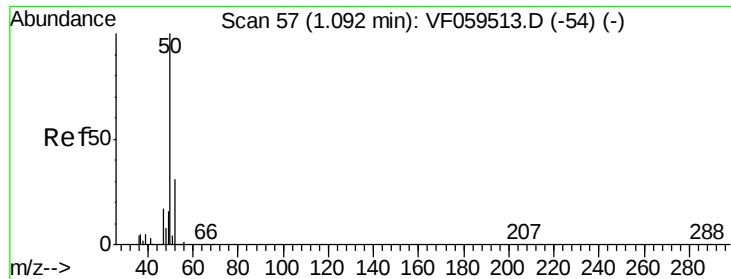
87 29.7 16.9 50.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 20.943 ug/l

RT: 1.08 min Scan# 56

Delta R.T. -0.01 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

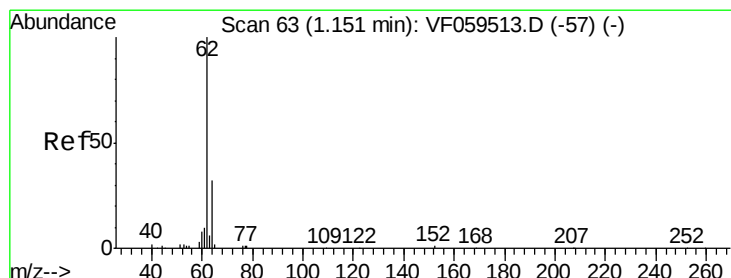
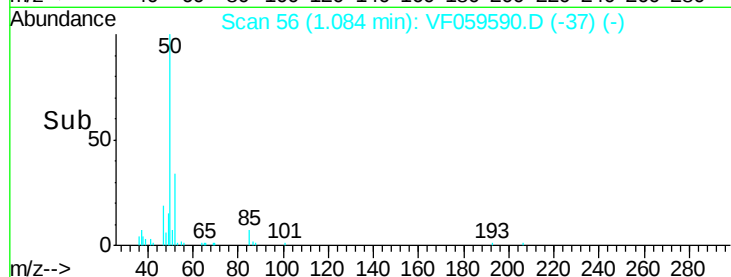
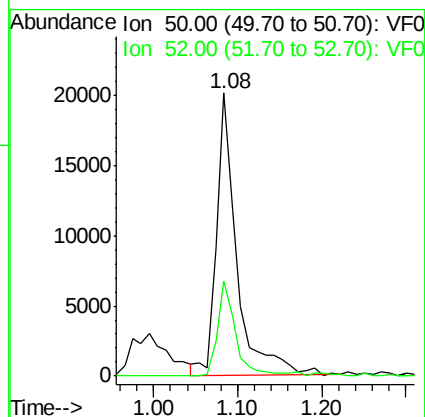
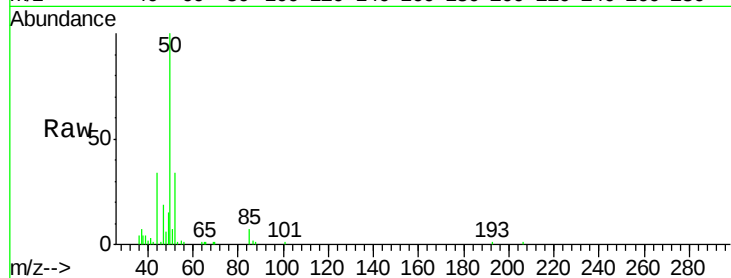
ClientSampleId :

Tot Ion: 50 Resp: 33456

Ion Ratio Lower Upper

50 100

52 33.8 24.6 37.0



#4

Vinyl Chloride

Concen: 23.014 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF059590.D

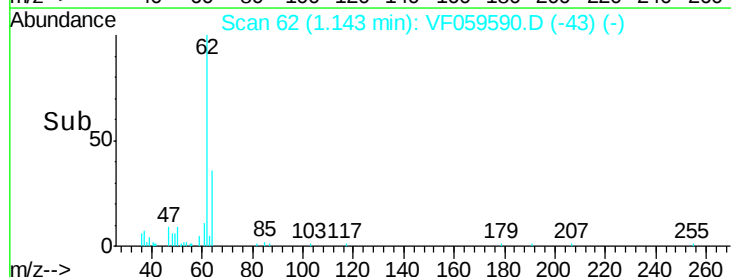
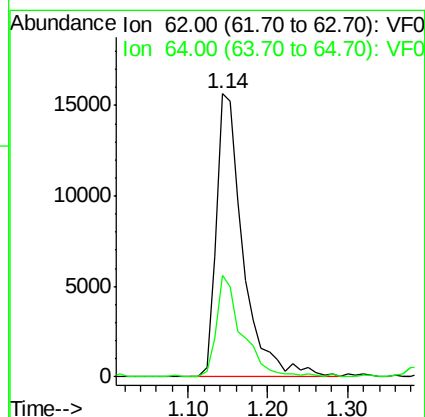
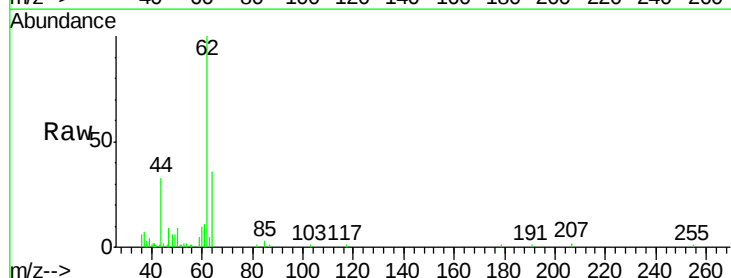
Acq: 20 Jul 2018 19:36

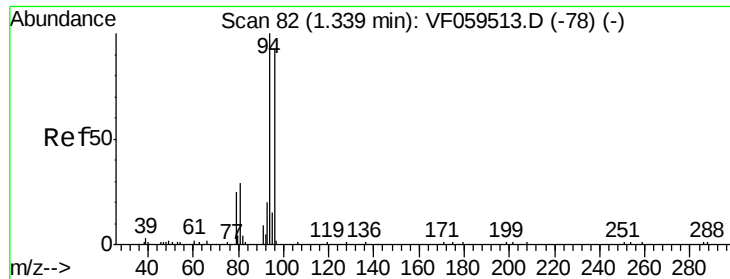
Tgt Ion: 62 Resp: 37095

Ion Ratio Lower Upper

62 100

64 35.8 25.7 38.5





#5

Bromomethane

Concen: 27.841 ug/l

RT: 1.34 min Scan# 82

Delta R.T. 0.00 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

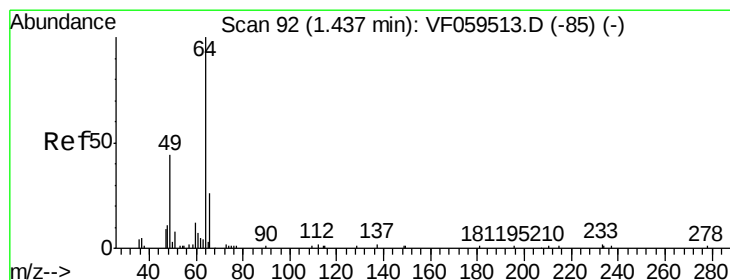
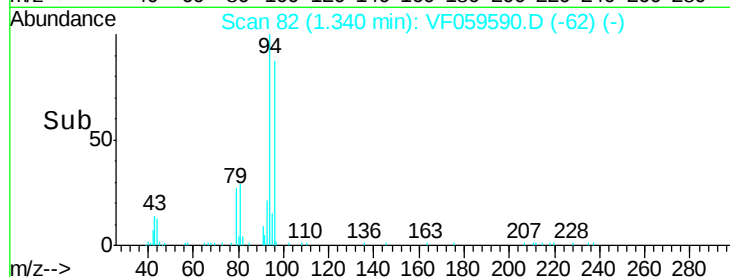
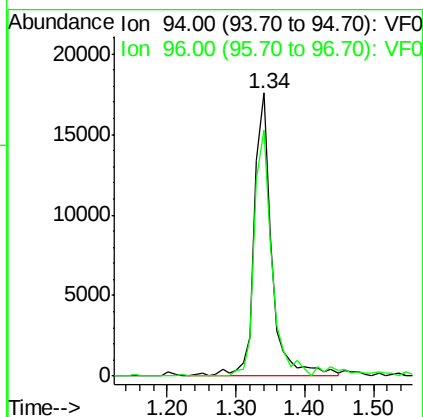
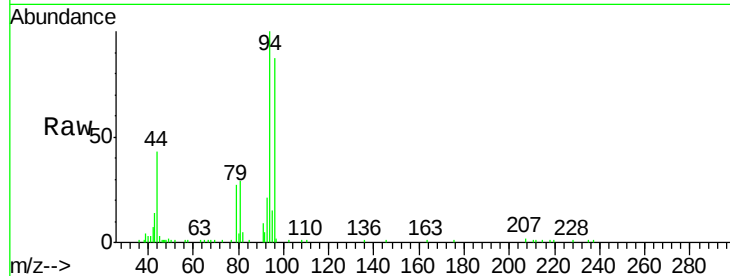
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 94 Resp: 31100

Ion Ratio Lower Upper

94 100

96 87.2 74.2 111.2



#6

Chloroethane

Concen: 24.781 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.02 min

Lab File: VF059590.D

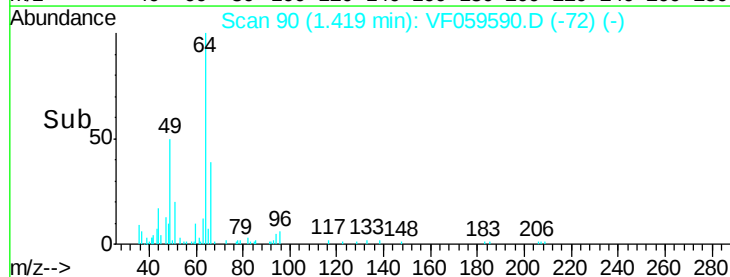
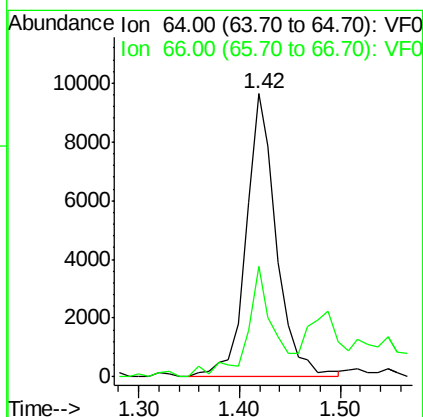
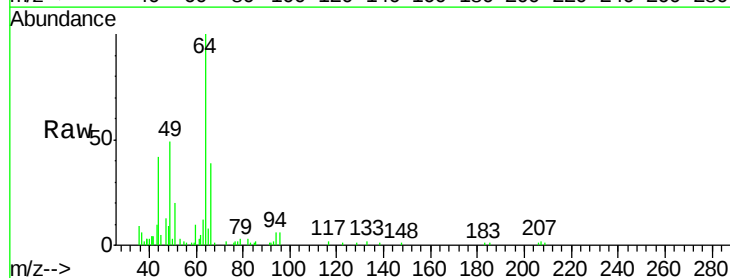
Acq: 20 Jul 2018 19:36

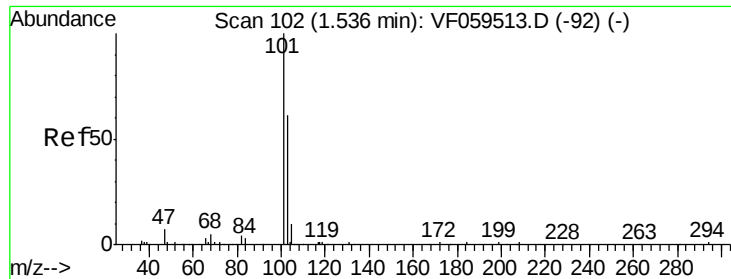
Tgt Ion: 64 Resp: 20141

Ion Ratio Lower Upper

64 100

66 38.9 22.9 34.3#





#7

Trichlorofluoromethane

Concen: 7.868 ug/l

RT: 1.48 min Scan# 96

Delta R.T. -0.06 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

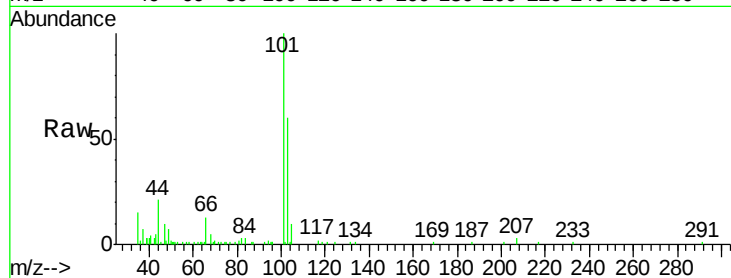
ClientSampled :

Tot Ion:101 Resp: 31039

Ion Ratio Lower Upper

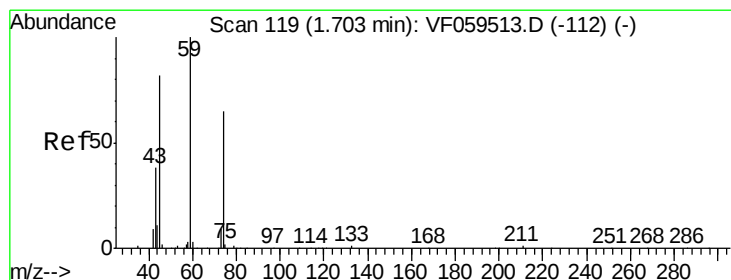
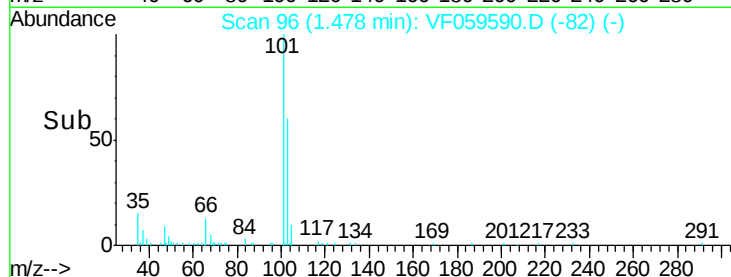
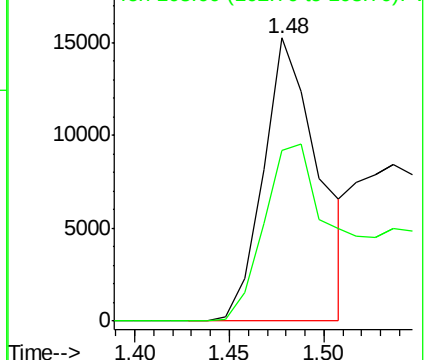
101 100

103 60.3 48.6 72.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 21.175 ug/l

RT: 1.69 min Scan# 118

Delta R.T. -0.01 min

Lab File: VF059590.D

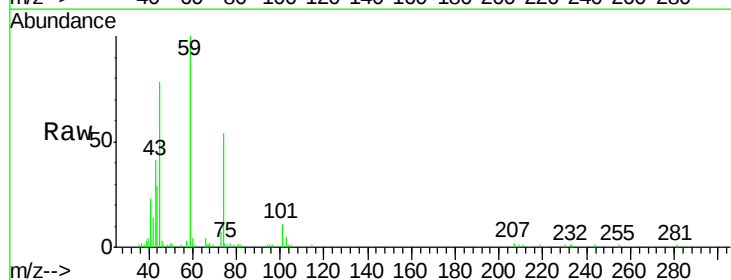
Acq: 20 Jul 2018 19:36

Tgt Ion: 74 Resp: 16074

Ion Ratio Lower Upper

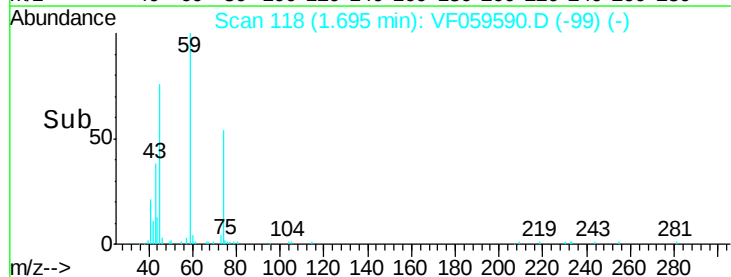
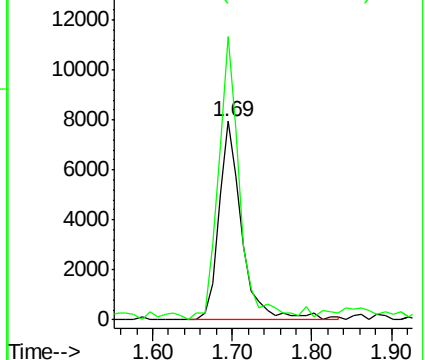
74 100

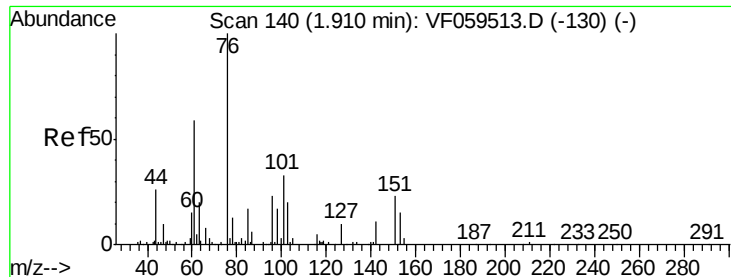
45 142.4 63.6 190.9



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: 30.037 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF059590.D

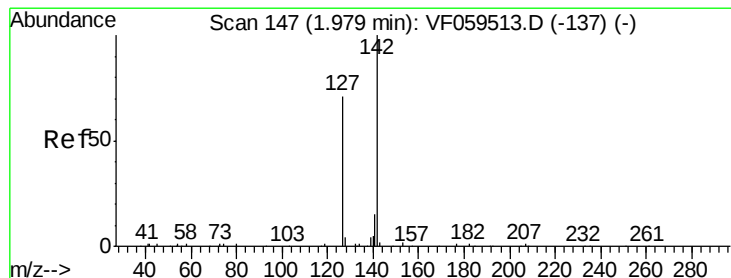
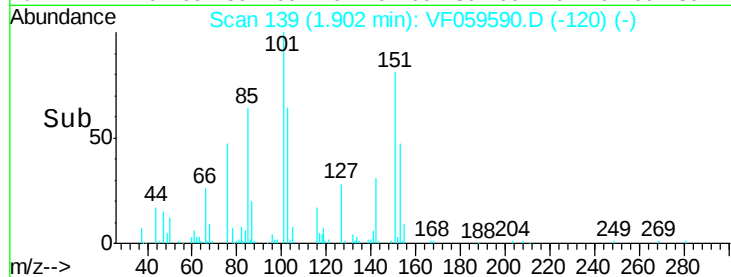
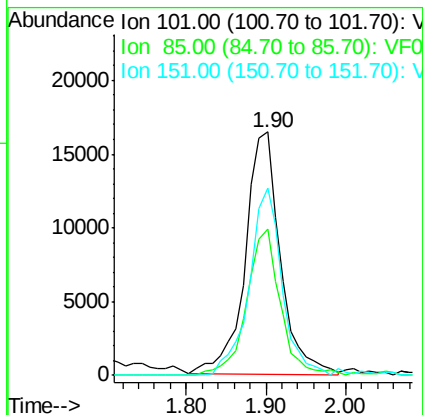
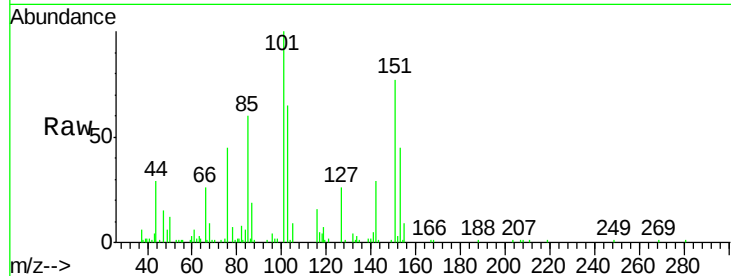
Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

ClientSampleId :

Tot Ion:101 Resp: 50040  
 Ion Ratio Lower Upper  
 101 100  
 85 60.1 39.8 59.6#  
 151 76.8 54.2 81.2



#10

Methyl Iodide

Concen: 30.665 ug/l

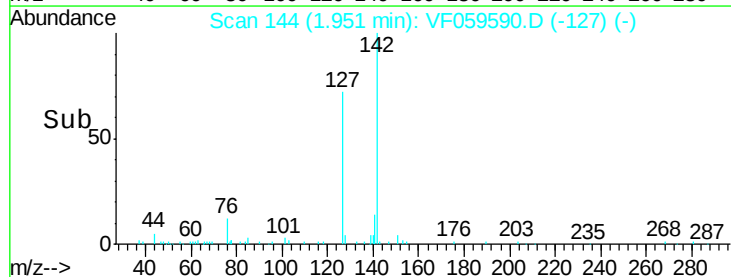
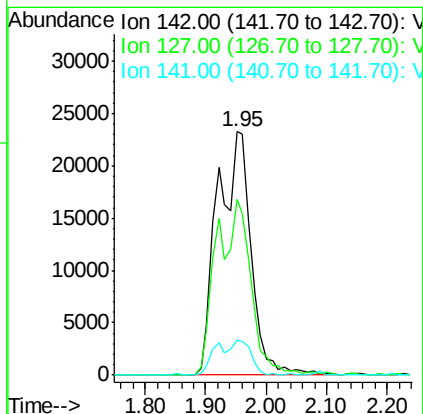
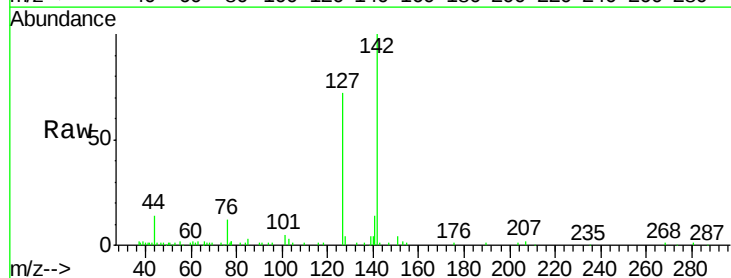
RT: 1.95 min Scan# 144

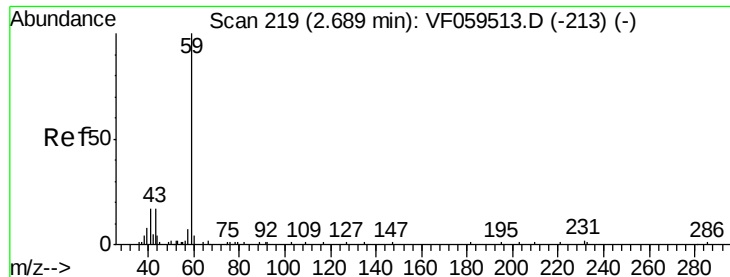
Delta R.T. -0.03 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Tgt Ion:142 Resp: 89430  
 Ion Ratio Lower Upper  
 142 100  
 127 72.2 56.4 84.6  
 141 14.1 12.0 18.0



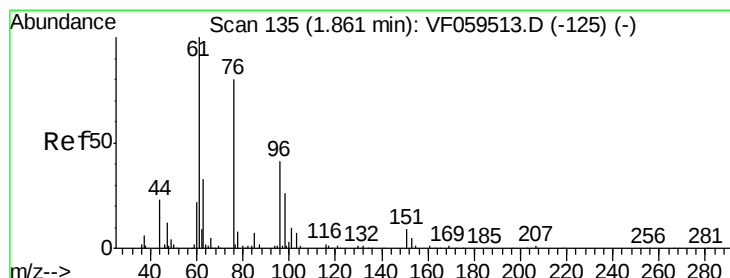
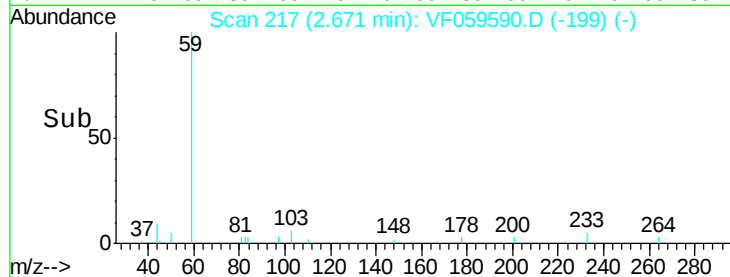
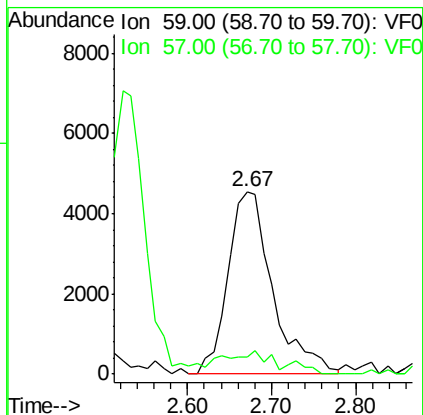
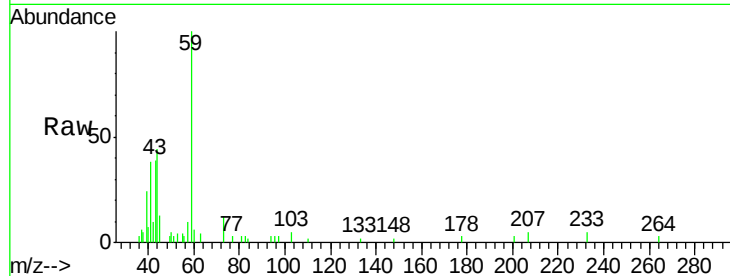


#11

Tert butyl alcohol  
 Concen: 99.990 ug/l  
 RT: 2.67 min Scan# 217  
 Delta R.T. -0.02 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

Instrument :  
 MSVOA\_F  
 ClientSampleId :

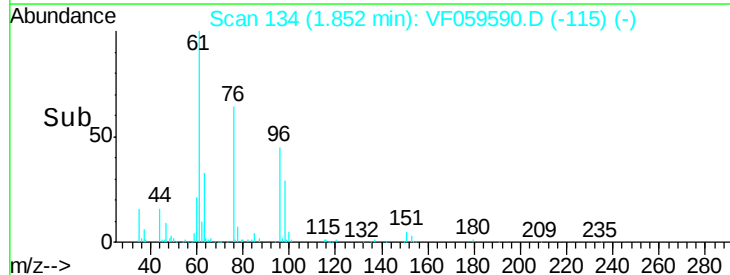
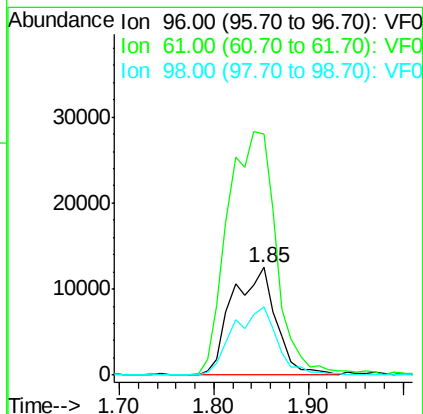
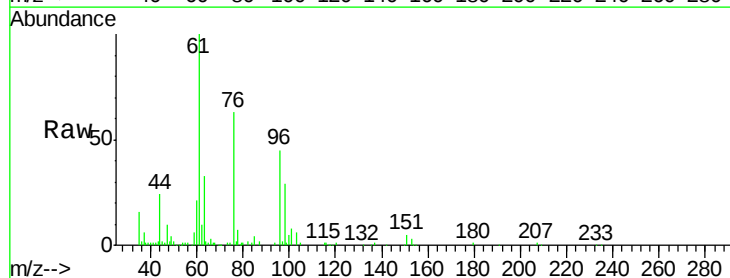
Tot Ion: 59 Resp: 16827  
 Ion Ratio Lower Upper  
 59 100  
 57 9.6 7.7 11.5

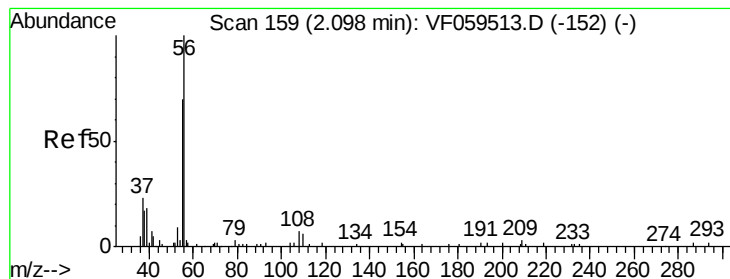


#12

1,1-Dichloroethene  
 Concen: 22.783 ug/l  
 RT: 1.85 min Scan# 134  
 Delta R.T. -0.01 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

Tgt Ion: 96 Resp: 40364  
 Ion Ratio Lower Upper  
 96 100  
 61 223.2 194.3 291.5  
 98 65.0 50.3 75.5





#13

Acrolein

Concen: Below Cal

RT: 1.94 min Scan# 143

Delta R.T. -0.16 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

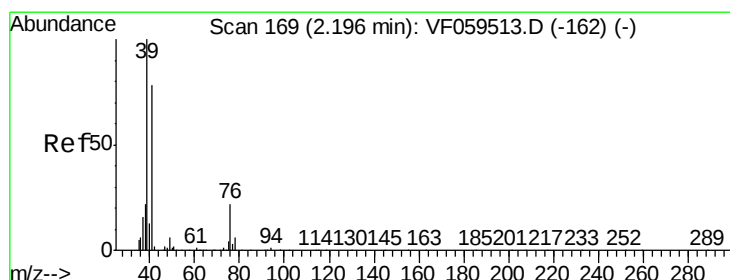
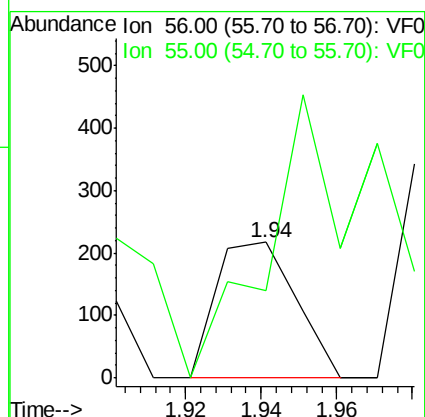
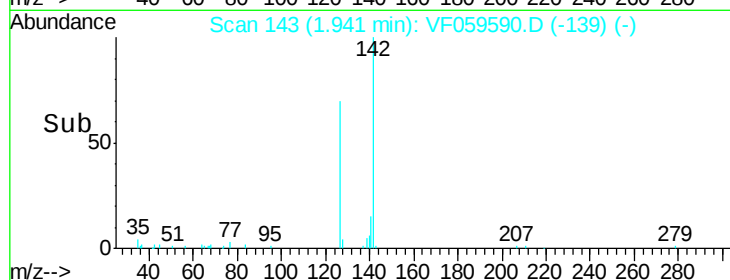
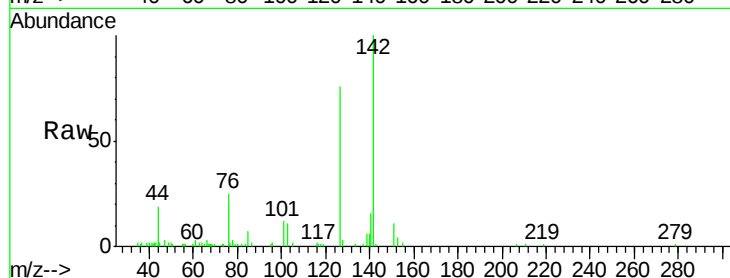
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 56 Resp: 315

Ion Ratio Lower Upper

56 100

55 64.5 59.4 89.2



#14

Allyl chloride

Concen: 31.152 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

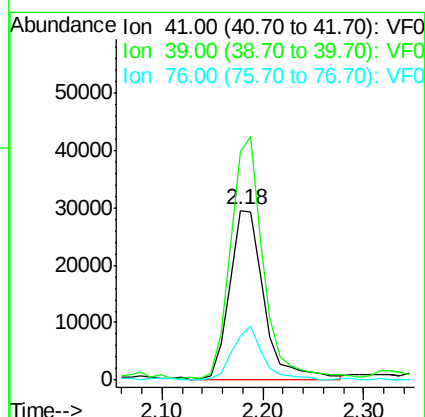
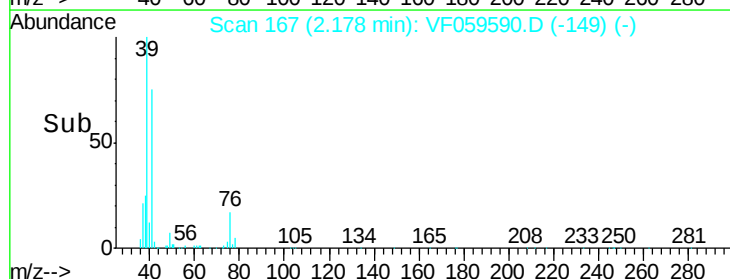
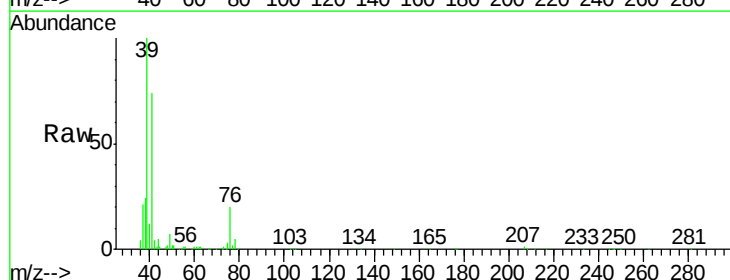
Tgt Ion: 41 Resp: 68875

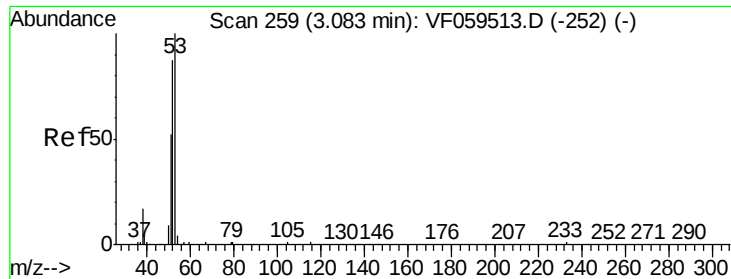
Ion Ratio Lower Upper

41 100

39 134.2 103.0 154.4

76 26.2 22.6 34.0





#15

Acrylonitrile

Concen: 102.170 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

ClientSampleId :

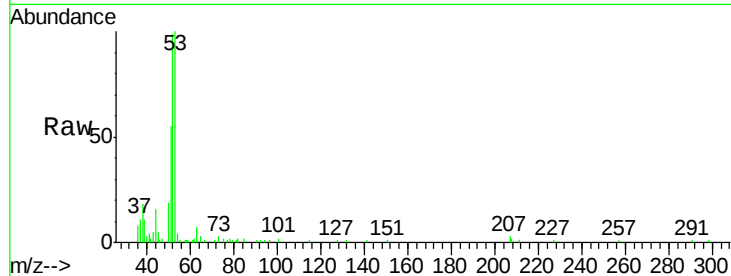
Tot Ion: 53 Resp: 31591

Ion Ratio Lower Upper

53 100

52 99.0 70.1 105.1

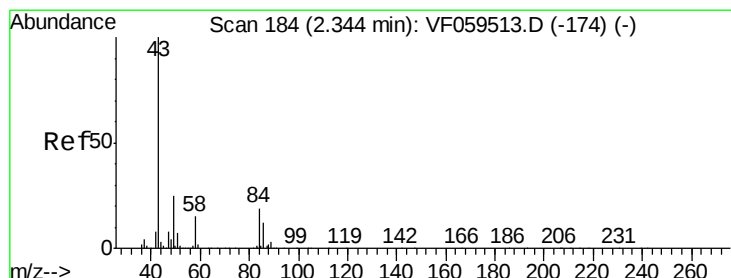
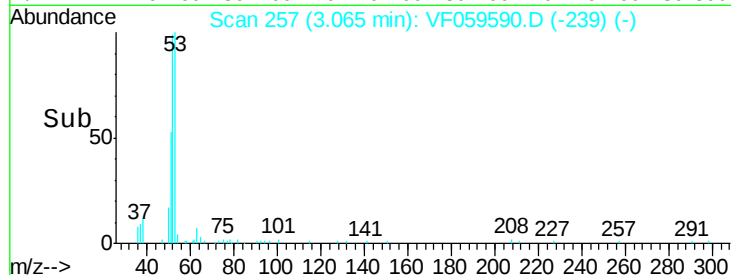
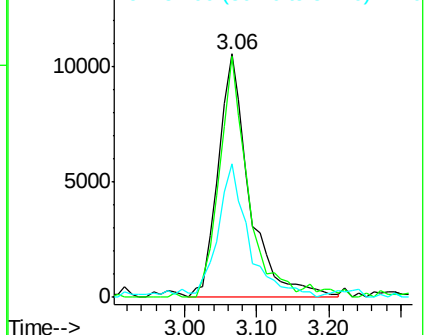
51 54.7 42.5 63.7



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: 105.134 ug/l

RT: 2.33 min Scan# 182

Delta R.T. -0.02 min

Lab File: VF059590.D

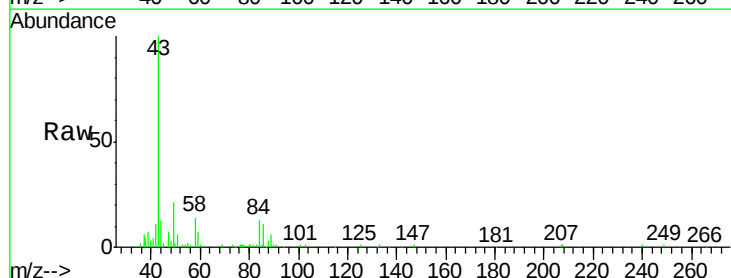
Acq: 20 Jul 2018 19:36

Tgt Ion: 43 Resp: 66662

Ion Ratio Lower Upper

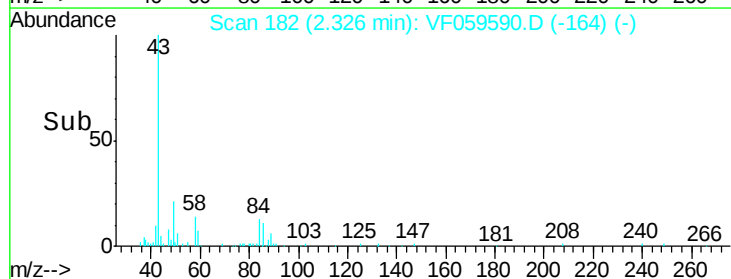
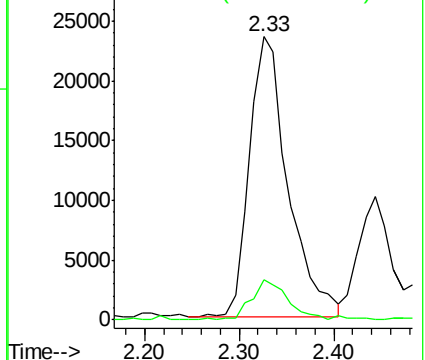
43 100

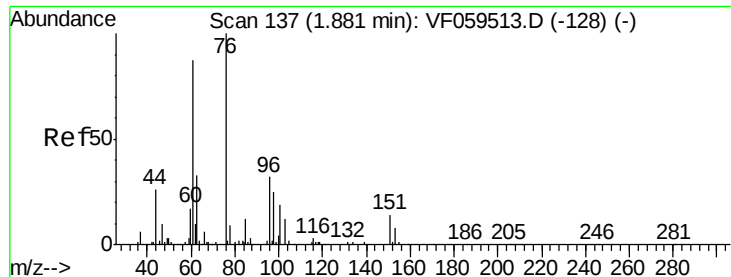
58 14.1 11.8 17.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

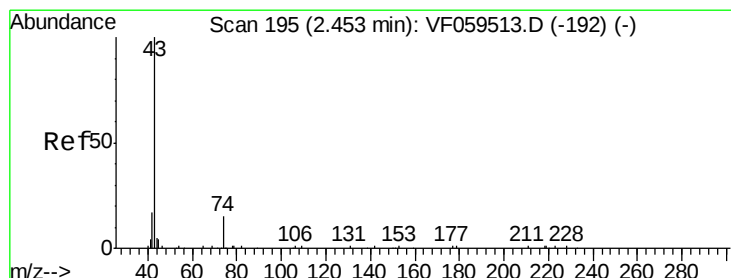
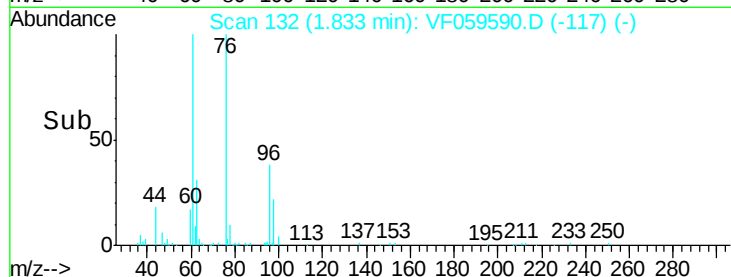
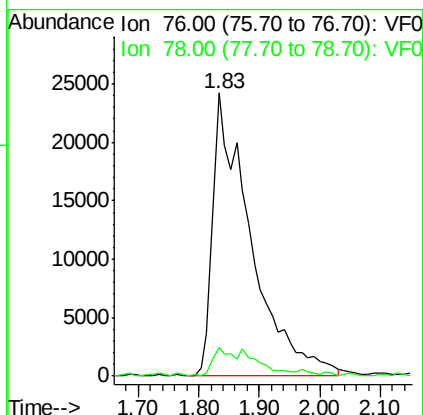
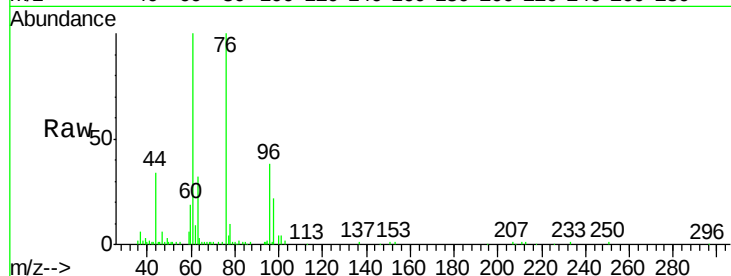




#17  
Carbon Disulfide  
Concen: 23.307 ug/l  
RT: 1.83 min Scan# 132  
Delta R.T. -0.05 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

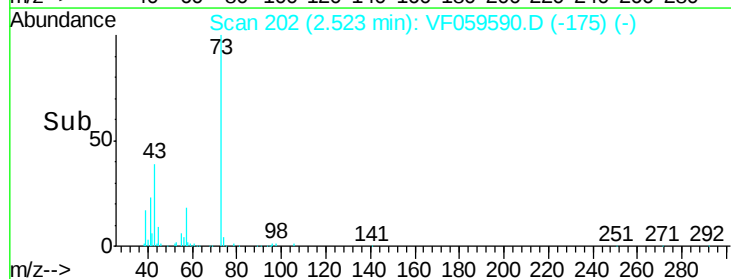
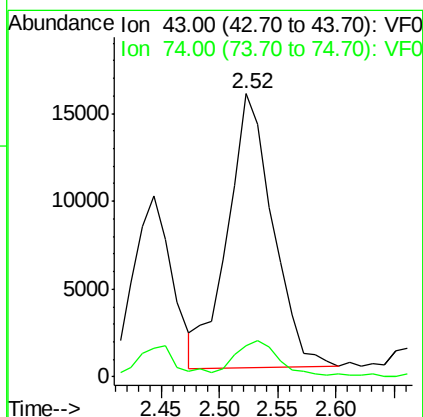
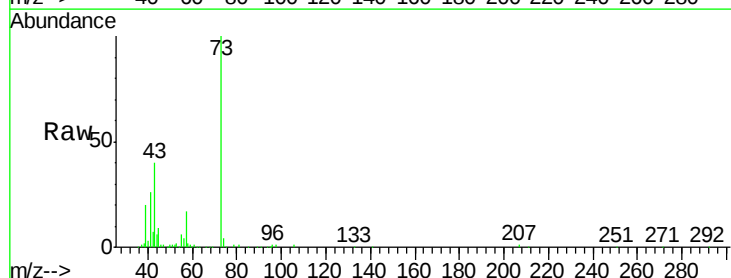
Instrument :  
MSVOA\_F  
ClientSampled :

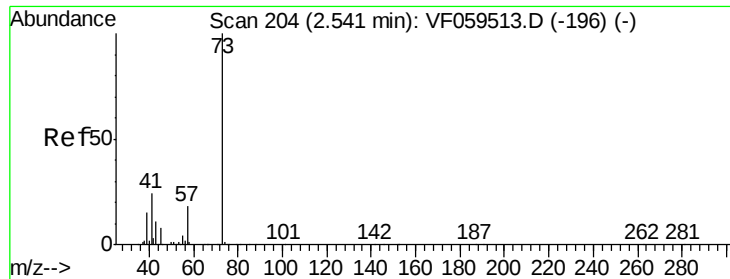
Tot Ion: 76 Resp: 105810  
Ion Ratio Lower Upper  
76 100  
78 10.3 7.8 11.6



#18  
Methyl Acetate  
Concen: 36.433 ug/l  
RT: 2.52 min Scan# 202  
Delta R.T. 0.07 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

Tgt Ion: 43 Resp: 41934  
Ion Ratio Lower Upper  
43 100  
74 11.0 10.6 15.8

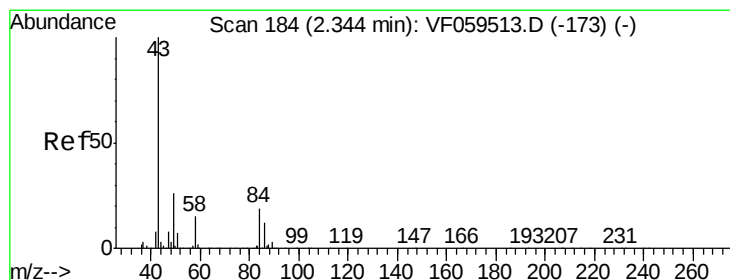
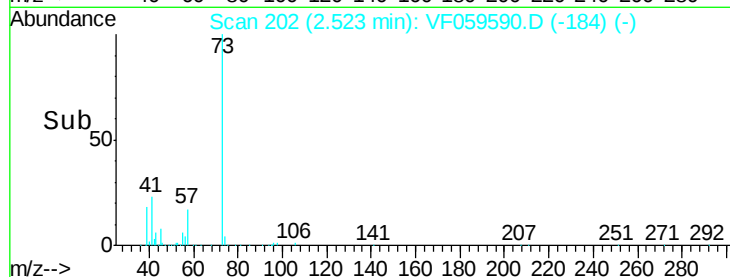
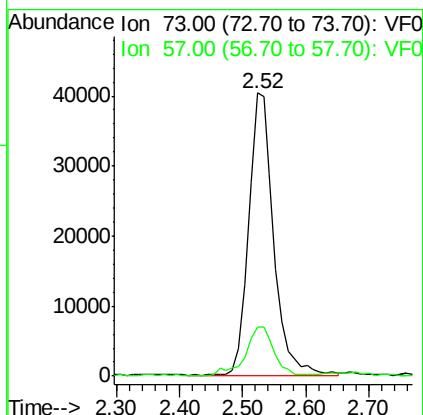
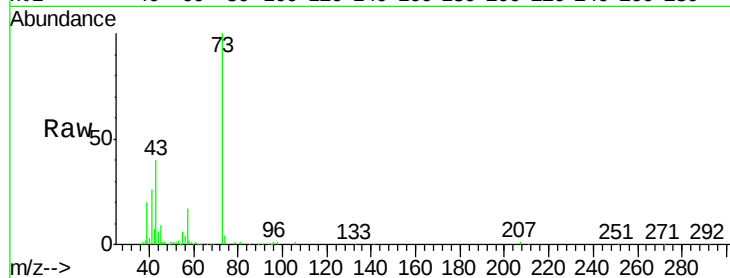




#19  
Methyl tert-butyl Ether  
Concen: 20.332 ug/l  
RT: 2.52 min Scan# 202  
Delta R.T. -0.02 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

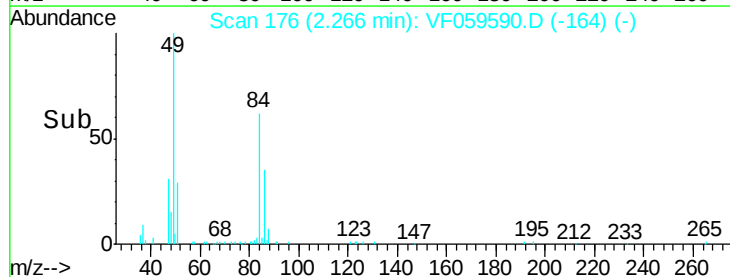
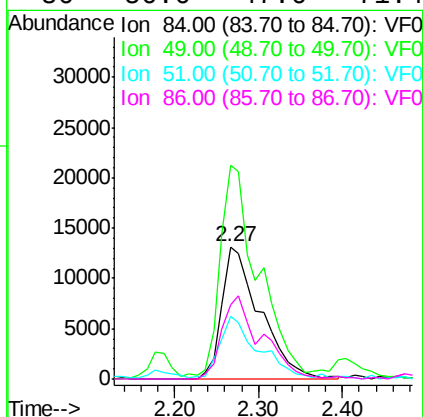
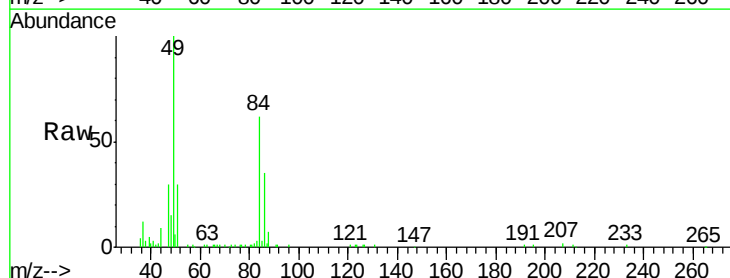
Instrument :  
MSVOA\_F  
ClientSampleId :

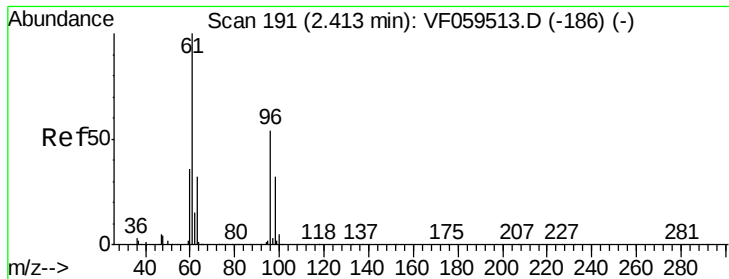
Tot Ion: 73 Resp: 112999  
Ion Ratio Lower Upper  
73 100  
57 17.5 14.3 21.5



#20  
Methylene Chloride  
Concen: 22.631 ug/l  
RT: 2.27 min Scan# 176  
Delta R.T. -0.08 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

Tgt Ion: 84 Resp: 41799  
Ion Ratio Lower Upper  
84 100  
49 161.3 109.4 164.2  
51 47.7 30.5 45.7#  
86 56.6 47.6 71.4





#21

trans-1,2-Dichloroethene

Concen: 24.722 ug/l

RT: 2.40 min Scan# 190

Delta R.T. -0.01 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

ClientSampleId :

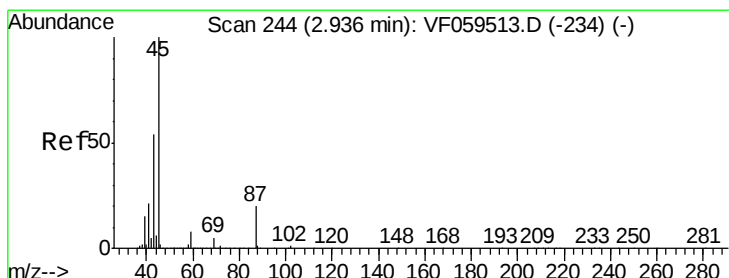
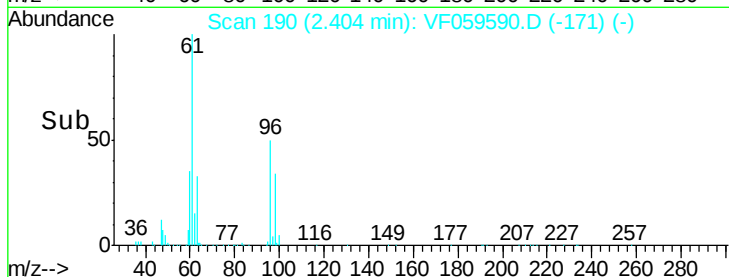
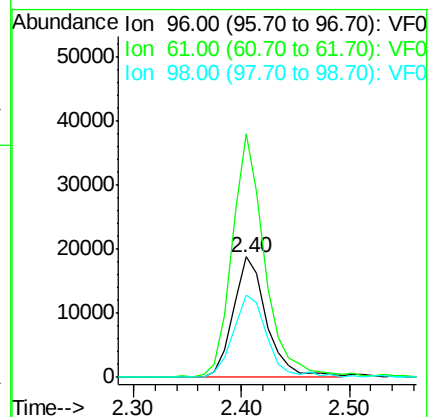
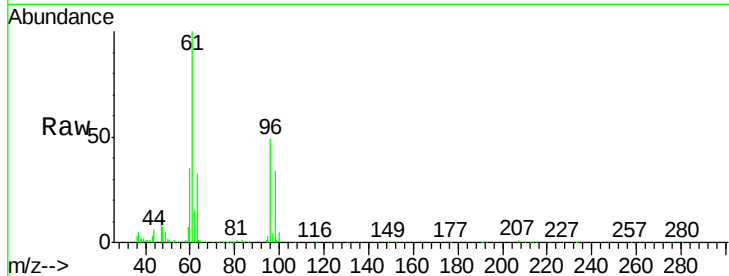
Tot Ion: 96 Resp: 40496

Ion Ratio Lower Upper

96 100

61 202.2 149.8 224.8

98 68.8 47.8 71.8



#22

Diisopropyl ether

Concen: 21.573 ug/l

RT: 2.92 min Scan# 242

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Tgt Ion: 45 Resp: 134053

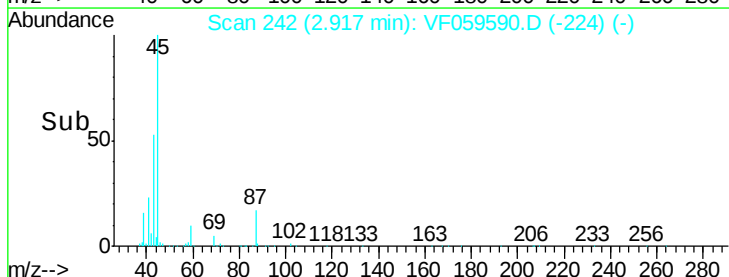
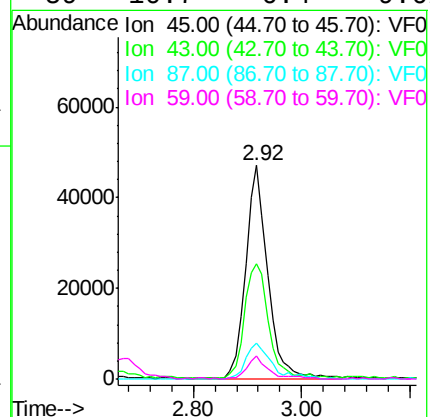
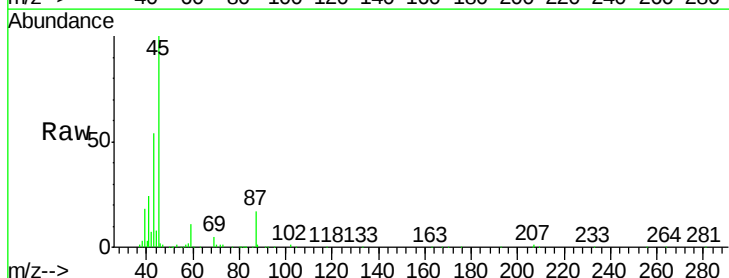
Ion Ratio Lower Upper

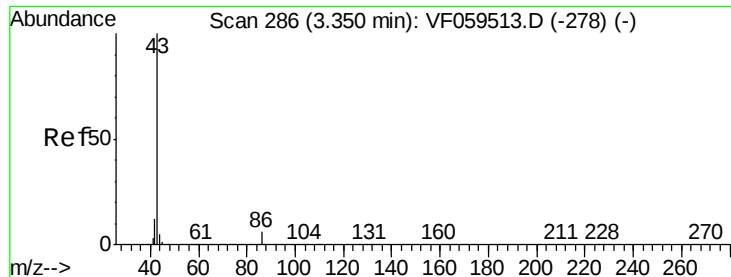
45 100

43 53.7 43.6 65.4

87 17.1 15.6 23.4

59 10.7 6.4 9.6#





#23

Vinyl Acetate

Concen: 102.789 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.03 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

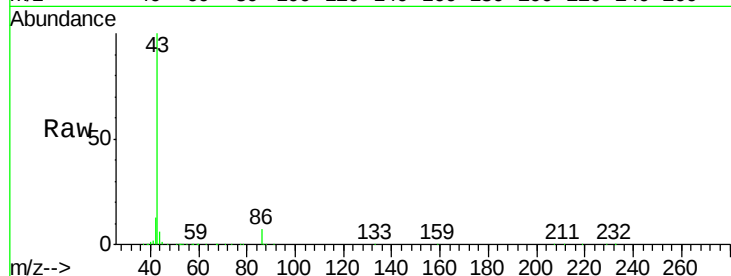
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 43 Resp: 373237

Ion Ratio Lower Upper

43 100

86 6.8 4.4 6.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.32

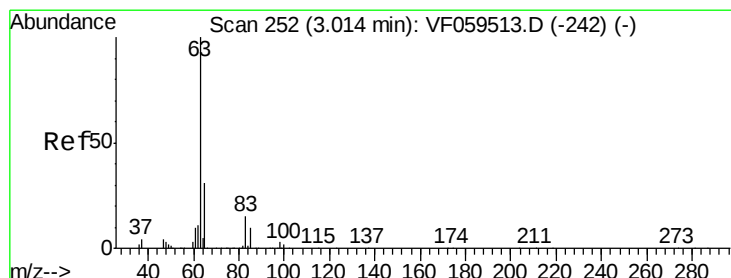
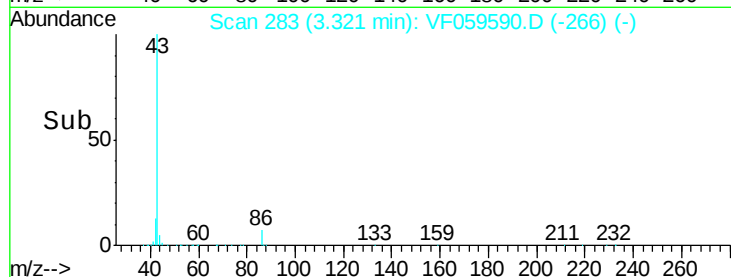
150000

100000

50000

0

Time--> 3.10 3.20 3.30 3.40 3.50



#24

1,1-Dichloroethane

Concen: 23.967 ug/l

RT: 3.00 min Scan# 250

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

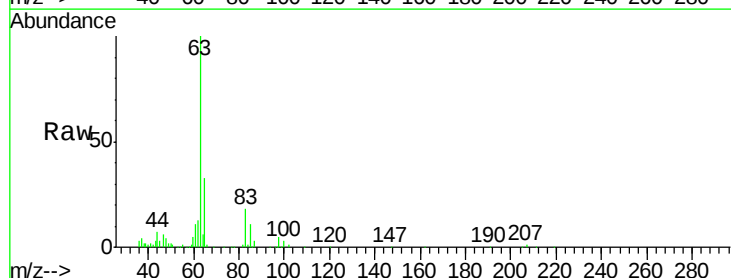
Tgt Ion: 63 Resp: 91971

Ion Ratio Lower Upper

63 100

98 4.5 1.8 5.4

100 3.0 1.3 3.8



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

3.00

40000

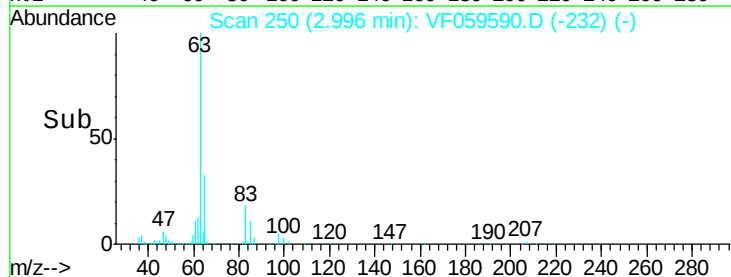
30000

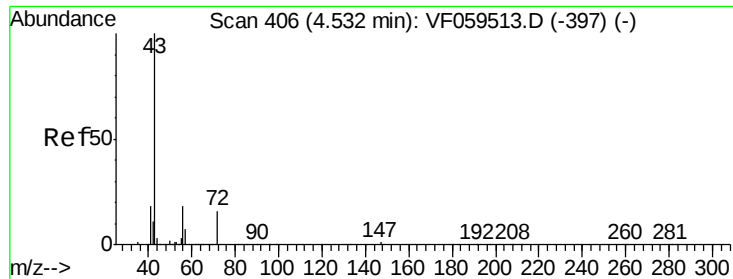
20000

10000

0

Time--> 2.90 3.00 3.10





#25

2-Butanone

Concen: 96.538 ug/l

RT: 4.49 min Scan# 402

Delta R.T. -0.04 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

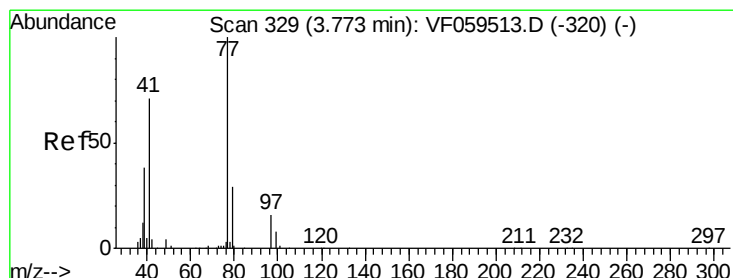
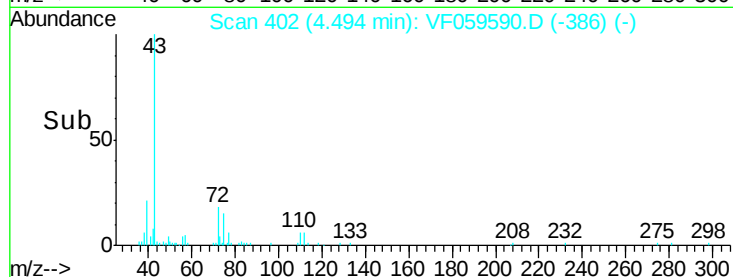
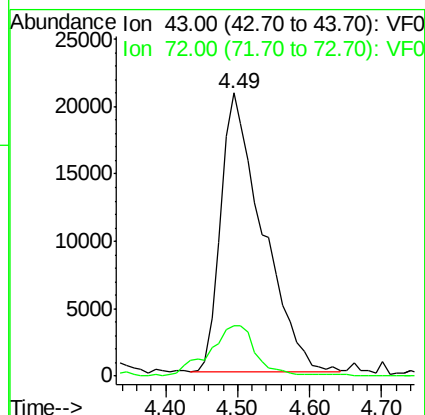
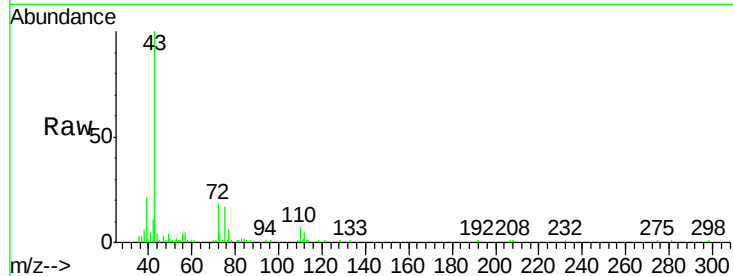
ClientSampleId :

Tot Ion: 43 Resp: 82601

Ion Ratio Lower Upper

43 100

72 17.7 14.2 21.4



#26

2,2-Dichloropropane

Concen: 29.802 ug/l

RT: 3.75 min Scan# 327

Delta R.T. -0.02 min

Lab File: VF059590.D

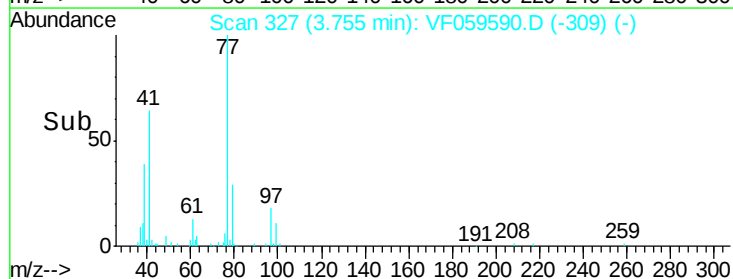
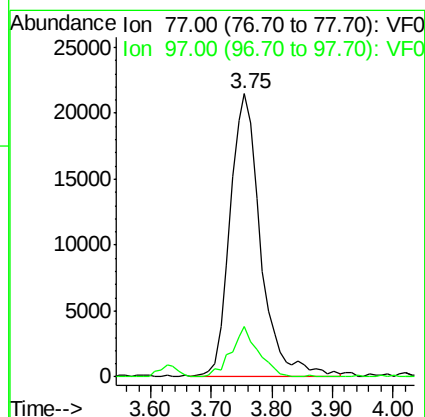
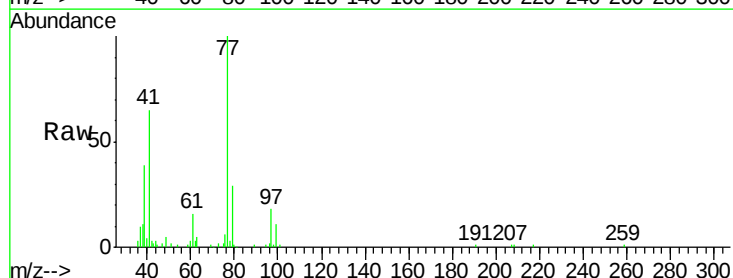
Acq: 20 Jul 2018 19:36

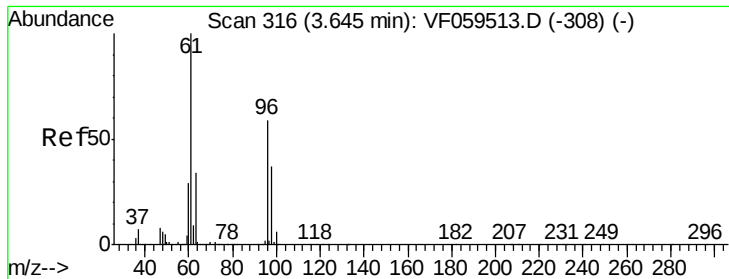
Tgt Ion: 77 Resp: 75659

Ion Ratio Lower Upper

77 100

97 17.6 8.1 24.3



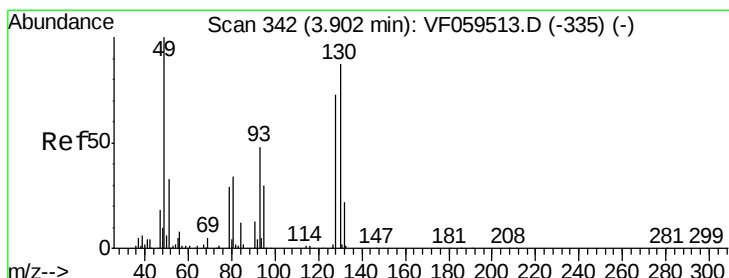
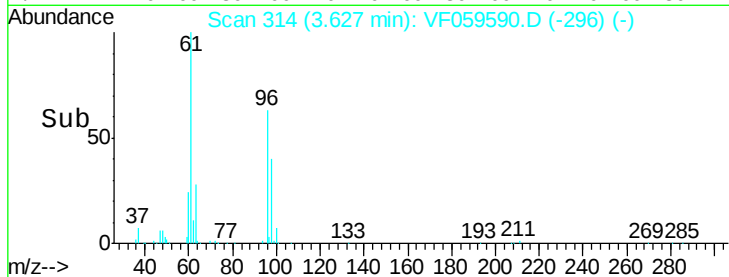
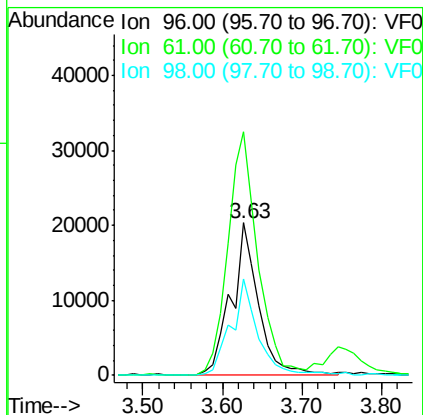
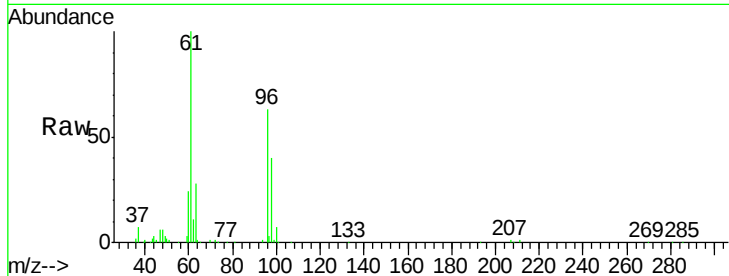


#27

cis-1,2-Dichloroethene  
Concen: 25.760 ug/l  
RT: 3.63 min Scan# 314  
Delta R.T. -0.02 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

Instrument :  
MSVOA\_F  
ClientSampleId :

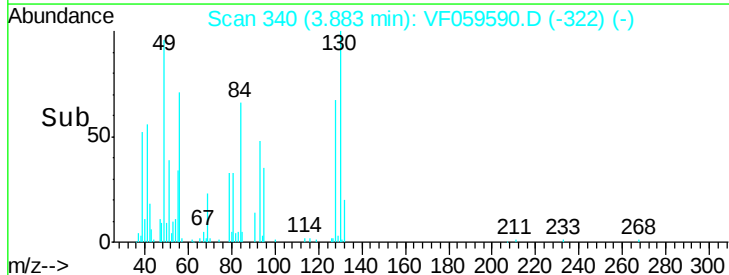
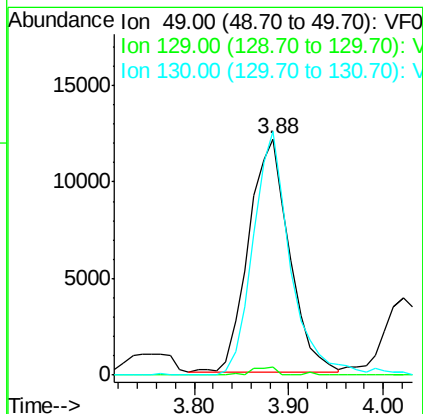
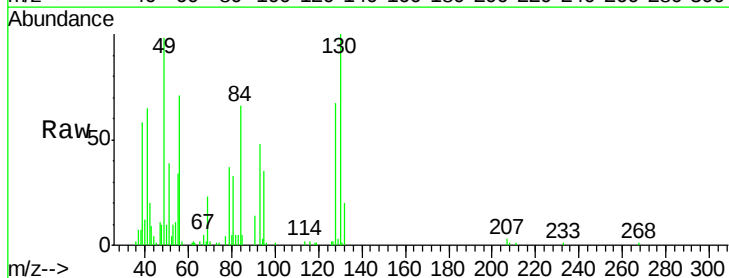
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 159.5 | 0.0   | 339.0 |
| 98      | 63.2  | 0.0   | 125.4 |

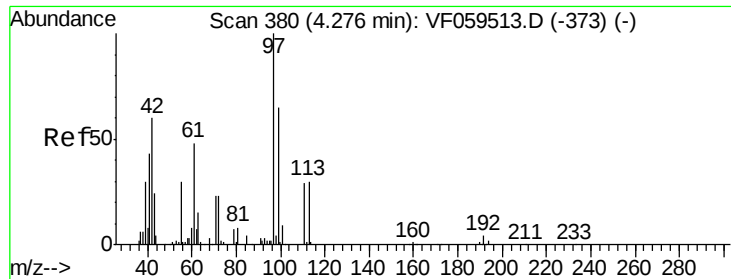


#28

Bromochloromethane  
Concen: 21.282 ug/l  
RT: 3.88 min Scan# 340  
Delta R.T. -0.02 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 3.4   | 0.0   | 0.0#  |
| 130     | 103.2 | 69.8  | 104.6 |

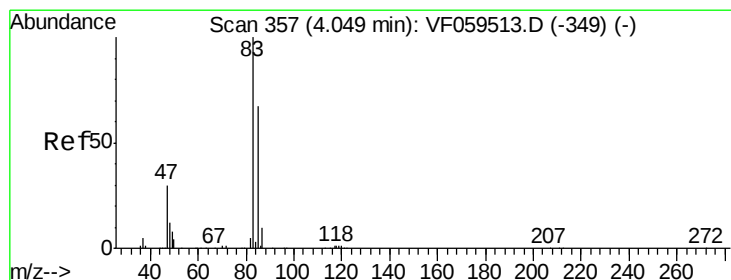
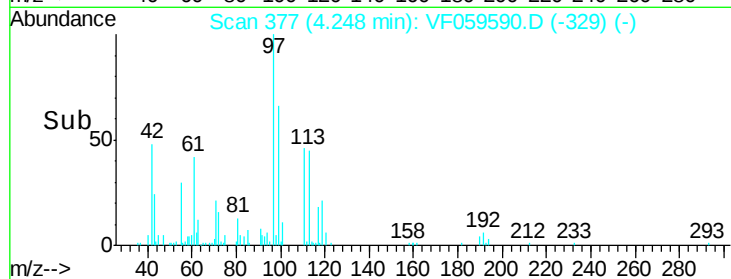
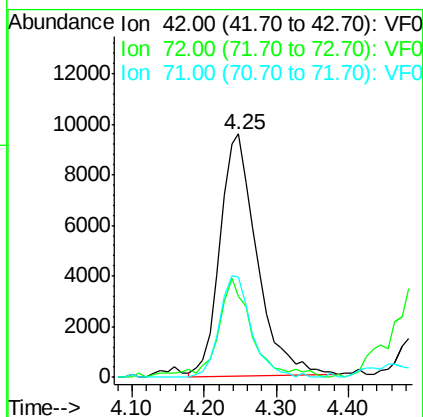
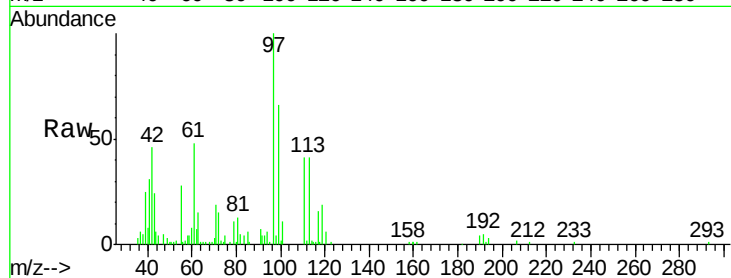




#29  
Tetrahydrofuran  
Concen: 82.541 ug/l  
RT: 4.25 min Scan# 377  
Delta R.T. -0.03 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

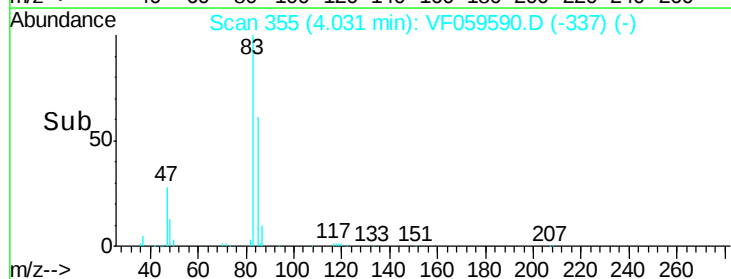
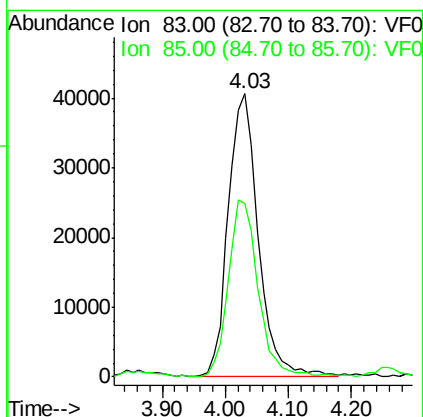
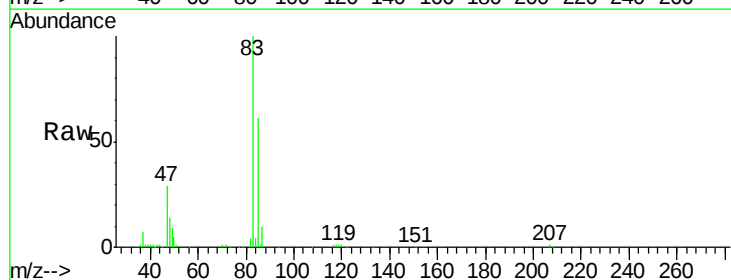
Instrument :  
MSVOA\_F  
ClientSampleId :

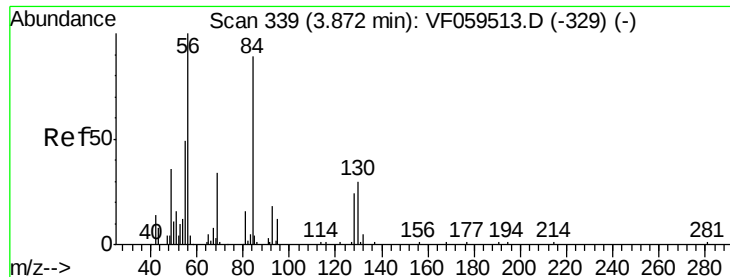
Tot Ion: 42 Resp: 33730  
Ion Ratio Lower Upper  
42 100  
72 38.9 28.7 43.1  
71 36.4 30.8 46.2



#30  
Chloroform  
Concen: 23.854 ug/l  
RT: 4.03 min Scan# 355  
Delta R.T. -0.02 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

Tgt Ion: 83 Resp: 132233  
Ion Ratio Lower Upper  
83 100  
85 61.4 53.2 79.8

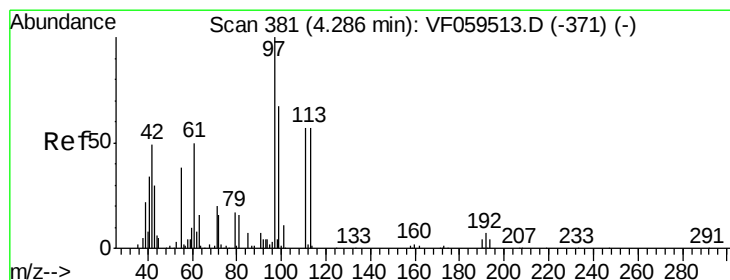
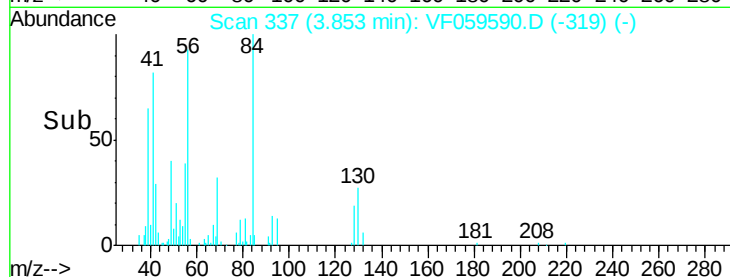
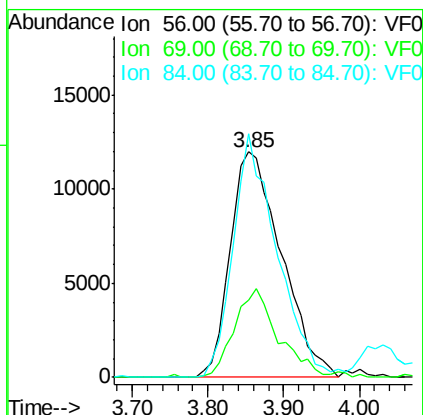
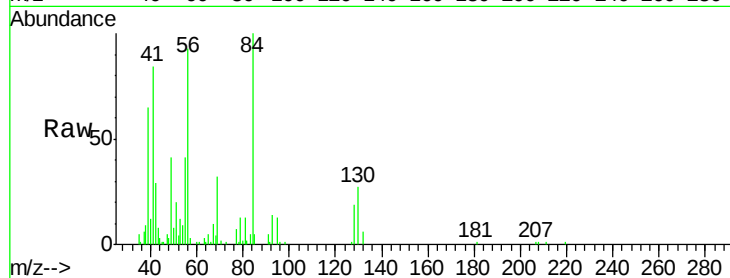




#31  
Cyclohexane  
Concen: 28.257 ug/l  
RT: 3.85 min Scan# 337  
Delta R.T. -0.02 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

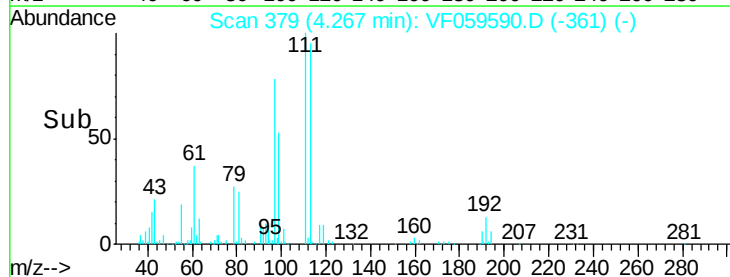
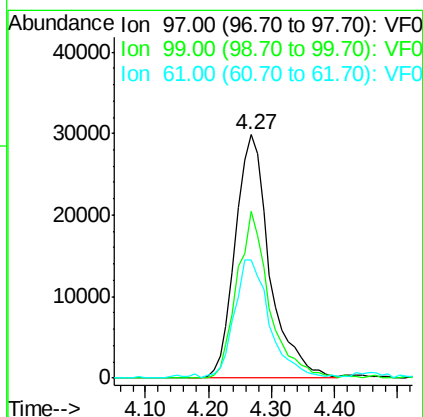
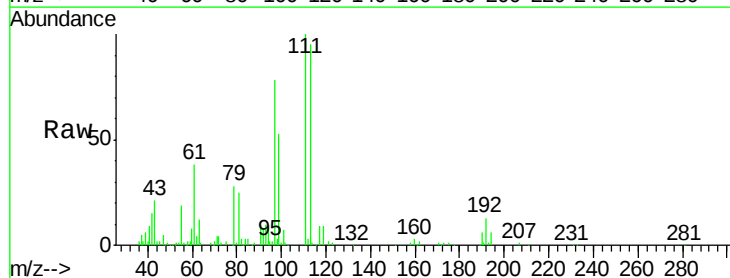
Instrument :  
MSVOA\_F  
ClientSampleId :

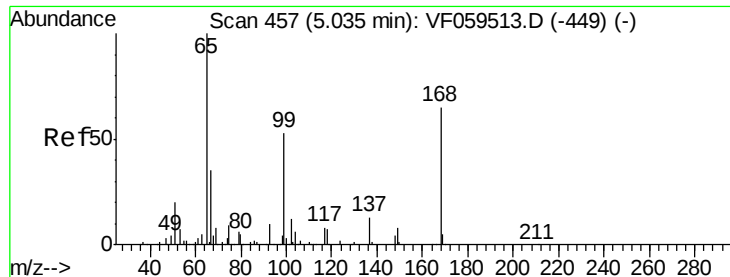
Tot Ion: 56 Resp: 56165  
Ion Ratio Lower Upper  
56 100  
69 34.5 27.6 41.4  
84 107.9 71.4 107.2#



#32  
1,1,1-Trichloroethane  
Concen: 31.376 ug/l  
RT: 4.27 min Scan# 379  
Delta R.T. -0.02 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

Tgt Ion: 97 Resp: 113032  
Ion Ratio Lower Upper  
97 100  
99 68.6 53.5 80.3  
61 48.3 39.7 59.5





#33

1,2-Dichloroethane-d4

Concen: 51.317 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.03 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

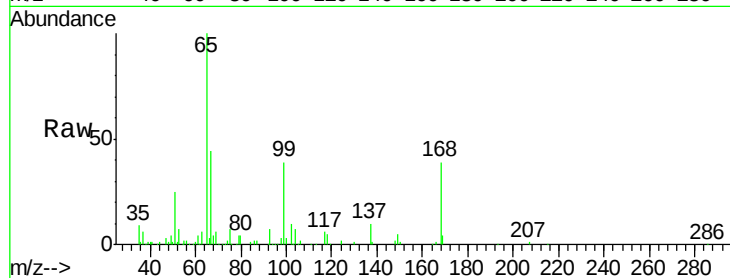
ClientSampleId :

Tot Ion: 65 Resp: 189123

Ion Ratio Lower Upper

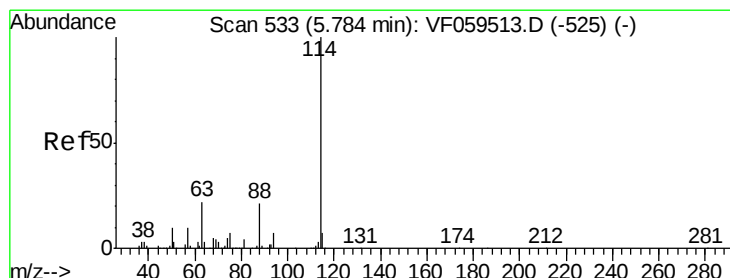
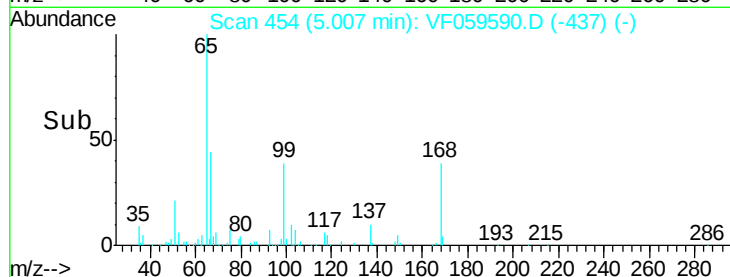
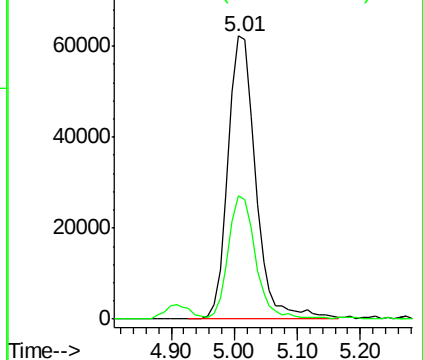
65 100

67 43.7 0.0 91.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 530

Delta R.T. -0.03 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

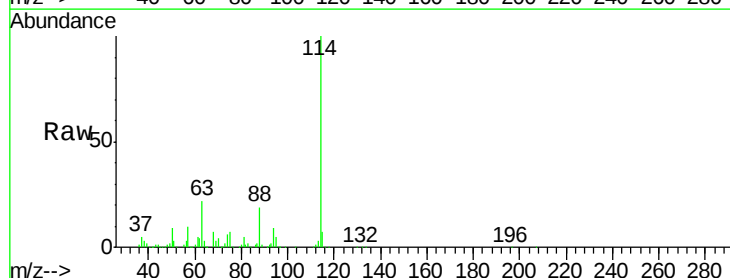
Tgt Ion: 114 Resp: 353688

Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.8

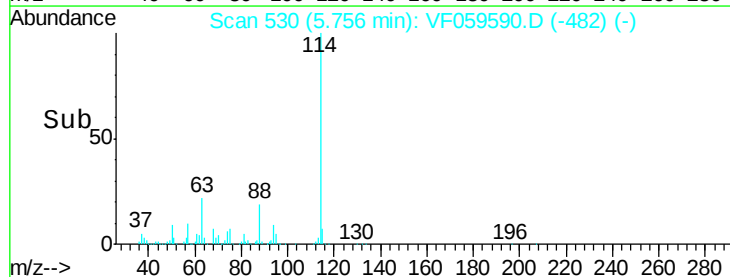
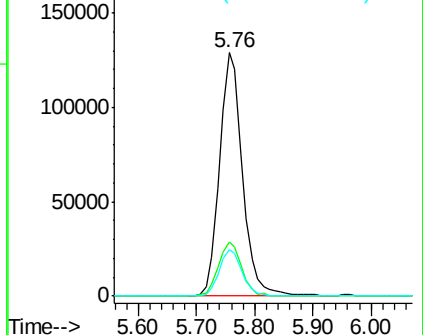
88 19.3 0.0 42.6

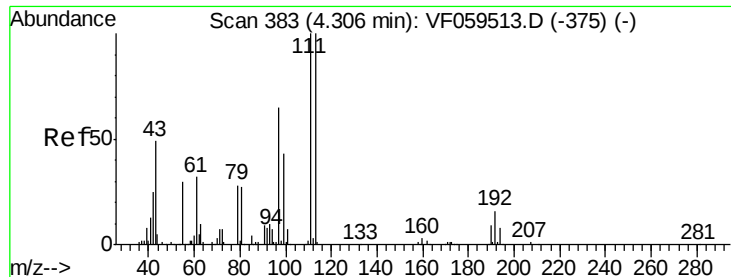


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

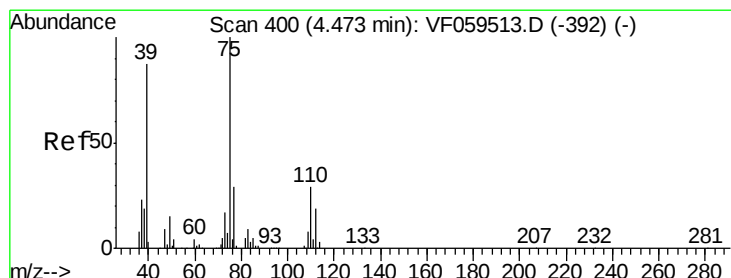
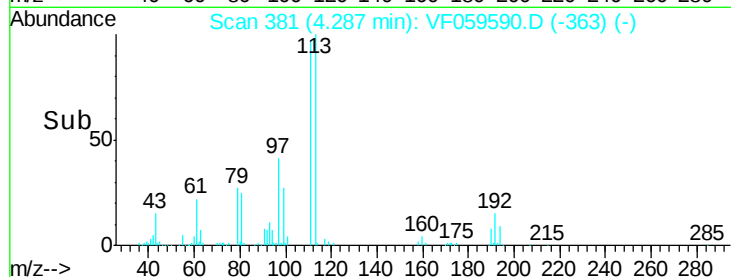
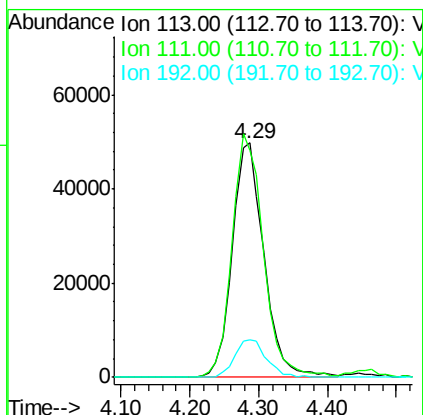
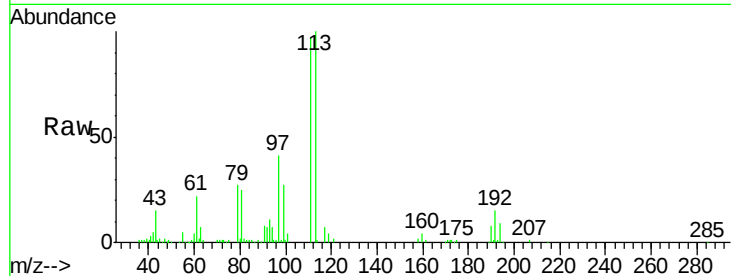




#35  
 Dibromofluoromethane  
 Concen: 51.828 ug/l  
 RT: 4.29 min Scan# 381  
 Delta R.T. -0.02 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

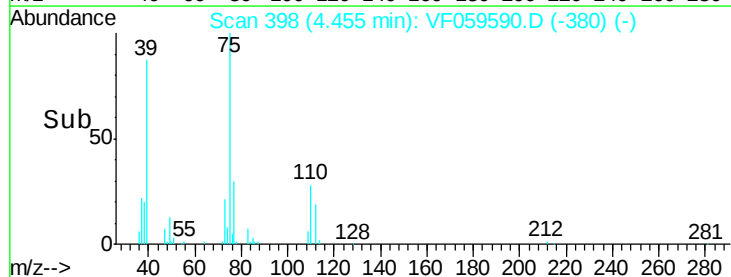
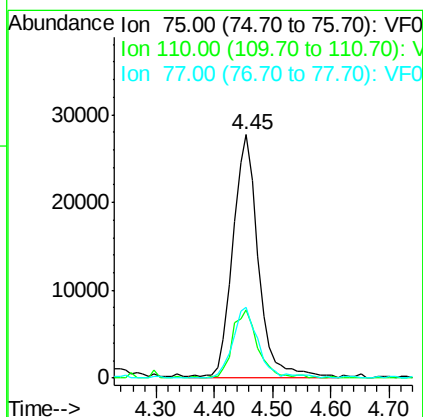
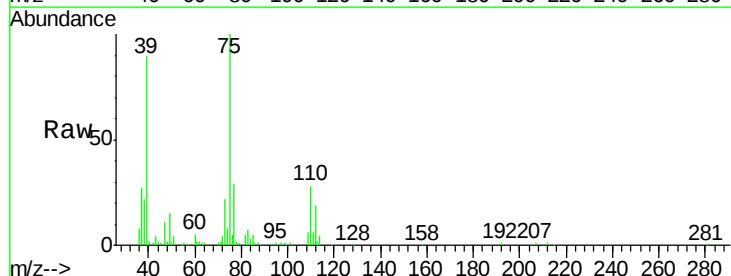
Instrument :  
 MSVOA\_F  
 ClientSampleId :

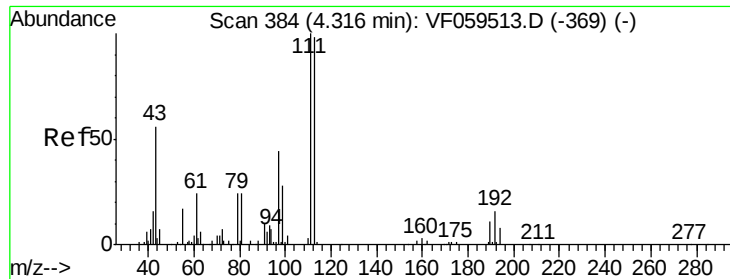
| Tot Ion   | 113   | Resp  | 158761 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 95.9  | 80.3  | 120.5  |
| 192       | 15.8  | 13.1  | 19.7   |



#36  
 1,1-Dichloropropene  
 Concen: 23.561 ug/l  
 RT: 4.45 min Scan# 398  
 Delta R.T. -0.02 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

| Tgt Ion   | 75    | Resp  | 83408 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 27.8  | 14.6  | 43.8  |
| 77        | 29.2  | 23.7  | 35.5  |

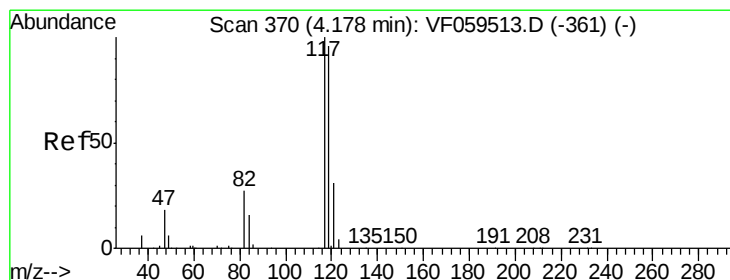
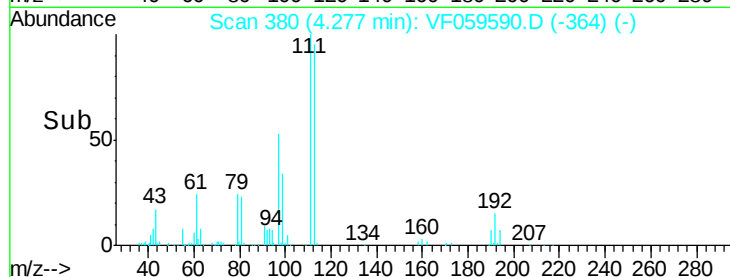
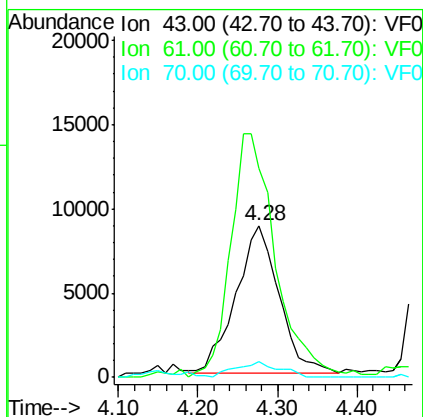
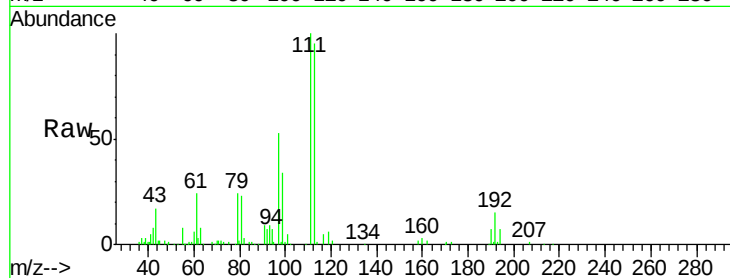




#37  
Ethyl Acetate  
Concen: 12.891 ug/l  
RT: 4.28 min Scan# 380  
Delta R.T. -0.04 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

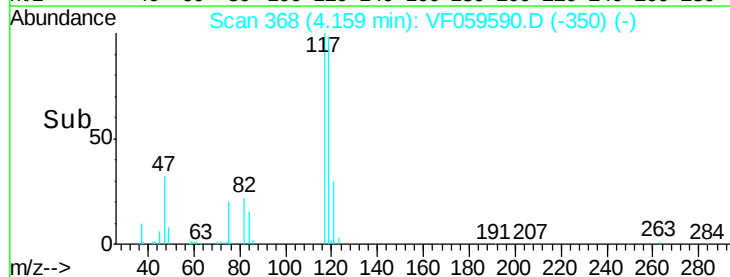
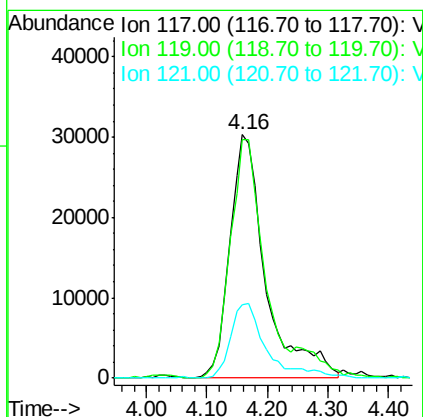
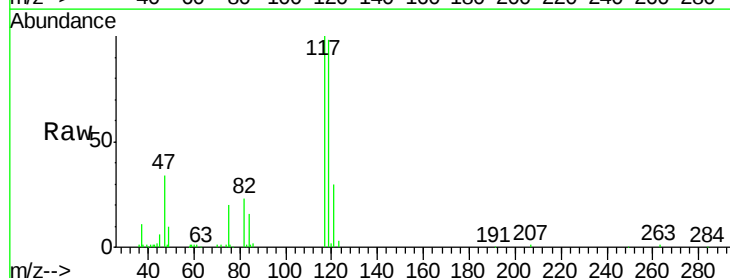
Instrument :  
MSVOA\_F  
ClientSampleId :

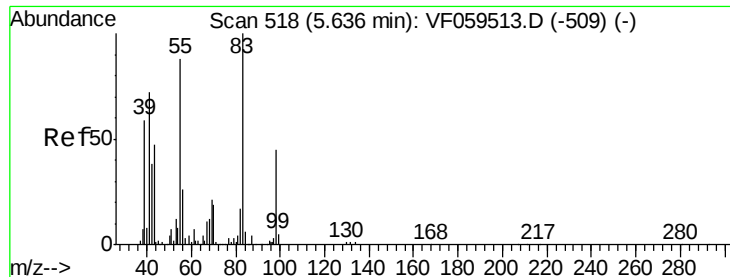
Tot Ion: 43 Resp: 32702  
Ion Ratio Lower Upper  
43 100  
61 137.8 33.7 50.5#  
70 10.2 7.4 11.0



#38  
Carbon Tetrachloride  
Concen: 30.873 ug/l  
RT: 4.16 min Scan# 368  
Delta R.T. -0.02 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

Tgt Ion: 117 Resp: 125250  
Ion Ratio Lower Upper  
117 100  
119 98.0 77.6 116.4  
121 30.1 24.9 37.3

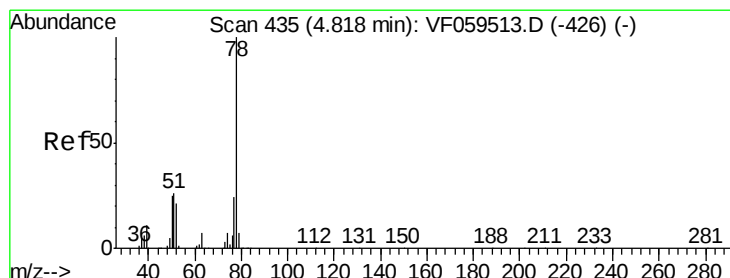
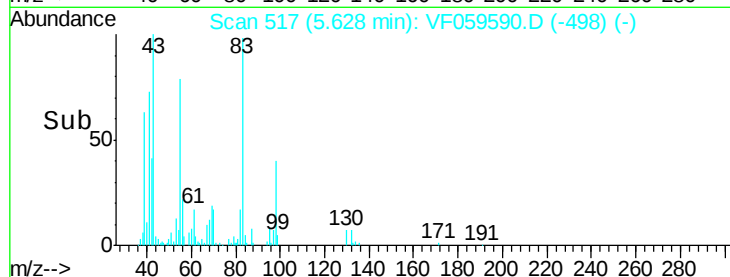
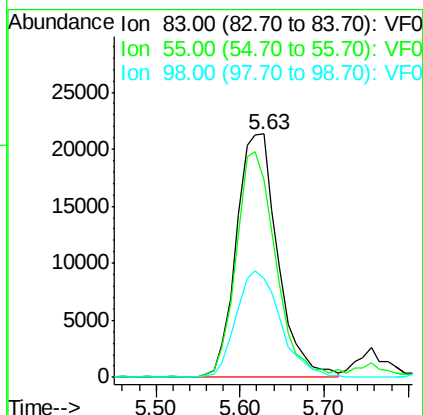
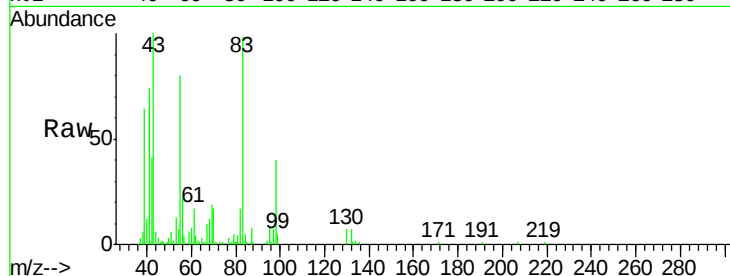




#39  
Methvlcvclohexane  
Concen: 27.380 ug/l  
RT: 5.63 min Scan# 517  
Delta R.T. -0.01 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

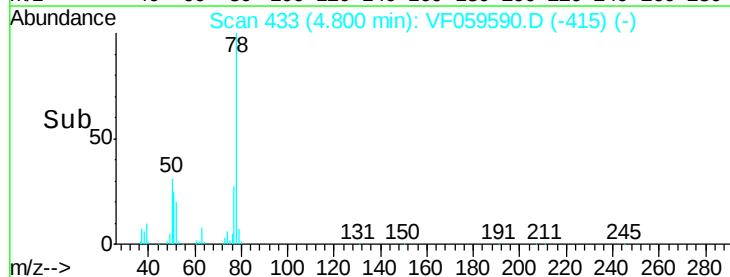
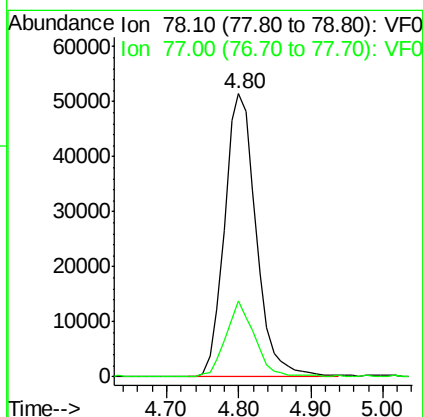
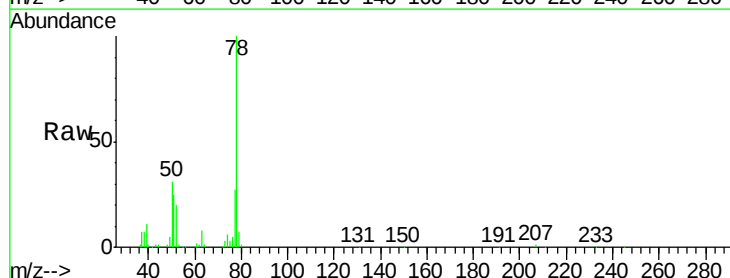
Instrument :  
MSVOA\_F  
ClientSampleId :

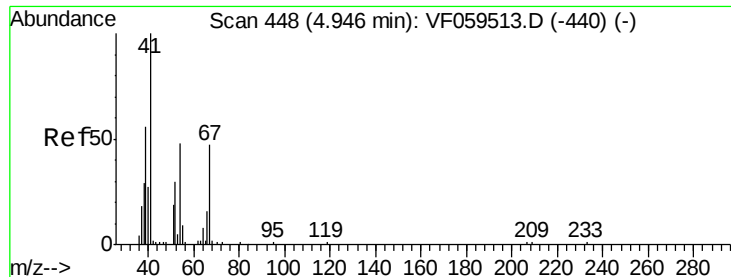
Tot Ion: 83 Resp: 73561  
Ion Ratio Lower Upper  
83 100  
55 81.3 70.2 105.4  
98 40.9 36.2 54.2



#40  
Benzene  
Concen: 22.784 ug/l  
RT: 4.80 min Scan# 433  
Delta R.T. -0.02 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

Tgt Ion: 78 Resp: 156478  
Ion Ratio Lower Upper  
78 100  
77 27.0 19.4 29.0

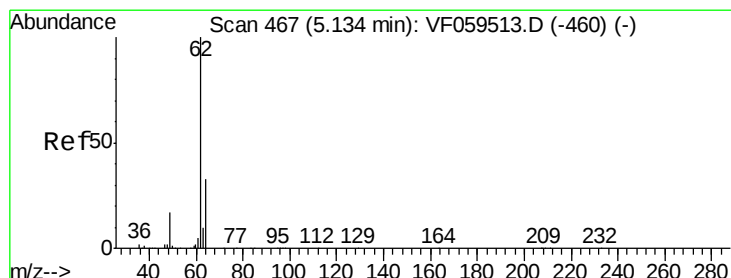
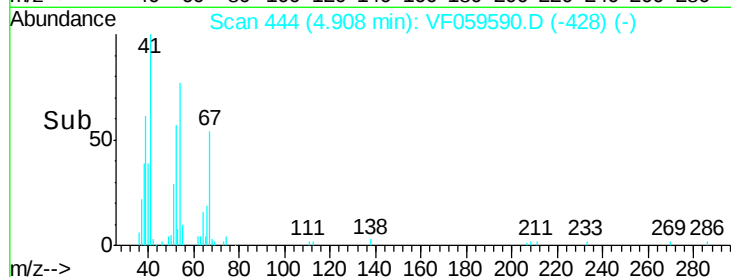
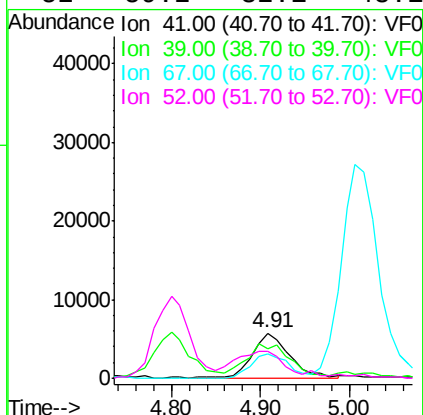
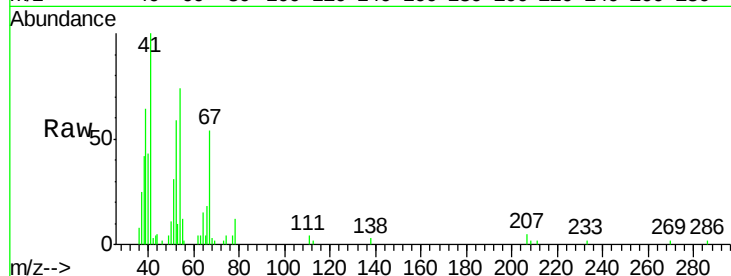




#41  
Methacrylonitrile  
Concen: 16.612 ug/l  
RT: 4.91 min Scan# 444  
Delta R.T. -0.04 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

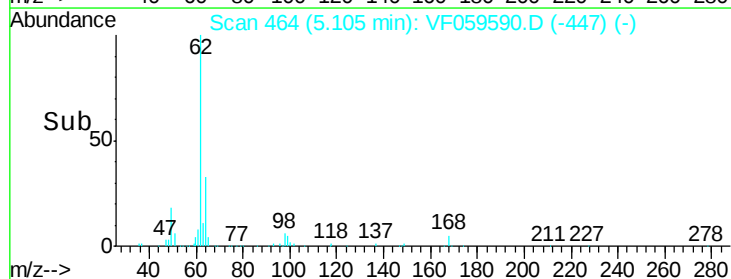
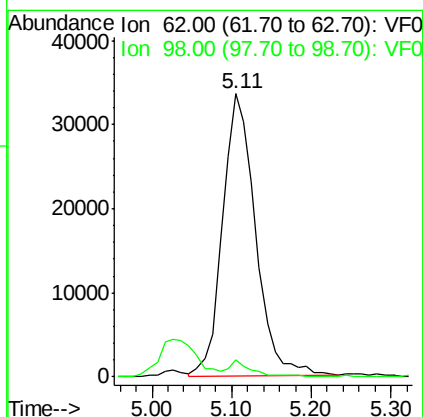
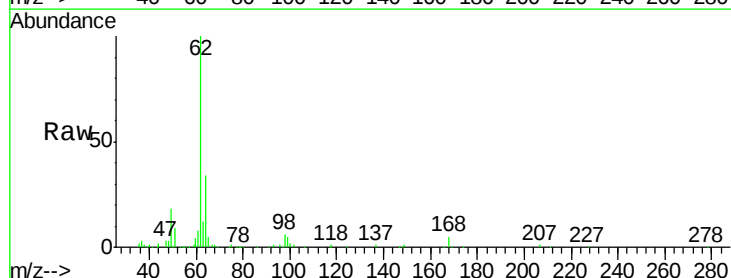
Instrument :  
MSVOA\_F  
ClientSampleId :

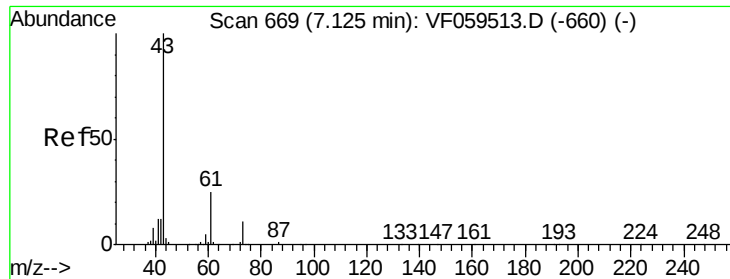
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 16865 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 64.3  | 49.4  | 74.0  |
| 67       | 54.2  | 37.4  | 56.2  |
| 52       | 59.2  | 32.1  | 48.1# |



#42  
1,2-Dichloroethane  
Concen: 21.546 ug/l  
RT: 5.11 min Scan# 464  
Delta R.T. -0.03 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 97201 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 5.9   | 0.0   | 9.6   |



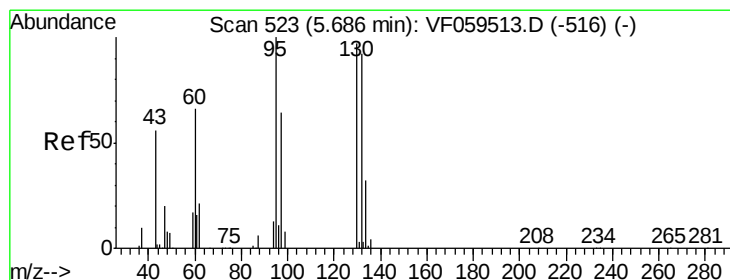
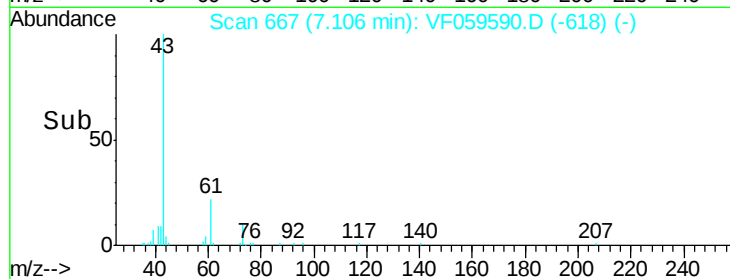
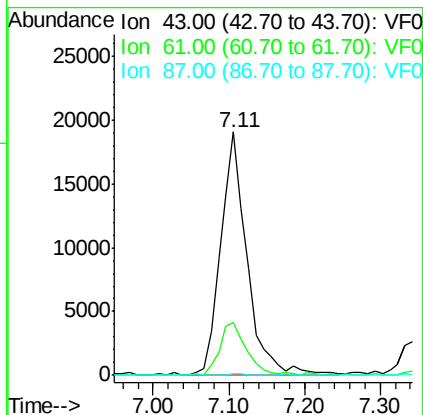
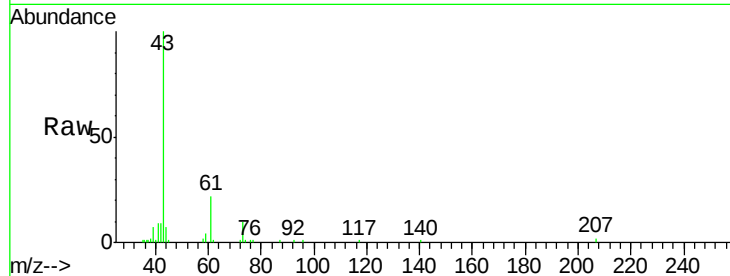


#43

Isopropyl Acetate  
 Concen: 18.135 ug/l  
 RT: 7.11 min Scan# 667  
 Delta R.T. -0.02 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

Instrument :  
 MSVOA\_F  
 ClientSampleId :

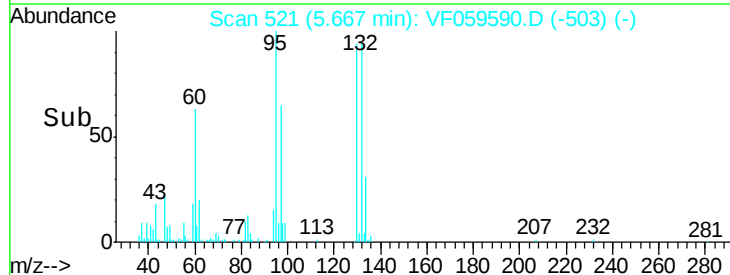
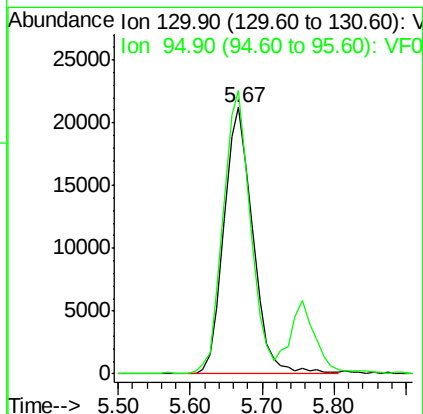
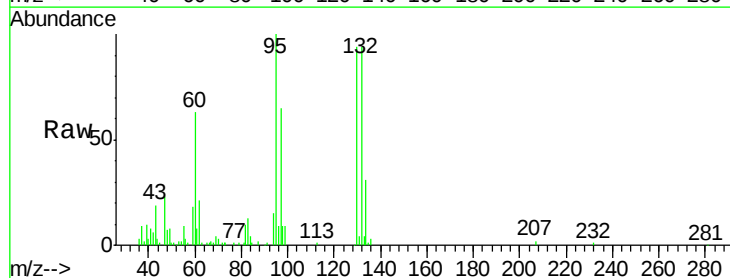
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 22.0  | 20.3  | 30.5  |
| 87      | 0.6   | 0.4   | 0.6#  |

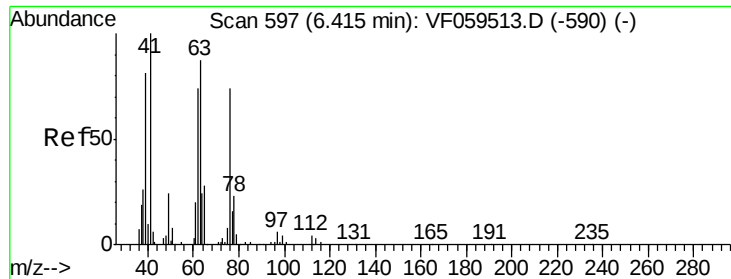


#44

Trichloroethene  
 Concen: 23.329 ug/l  
 RT: 5.67 min Scan# 521  
 Delta R.T. -0.02 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 106.2 | 0.0   | 206.6 |





#45

1,2-Dichloropropane

Concen: 21.262 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

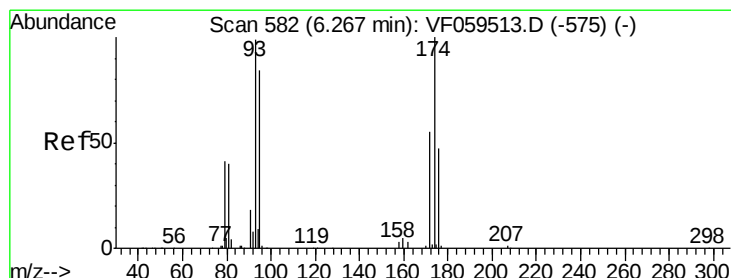
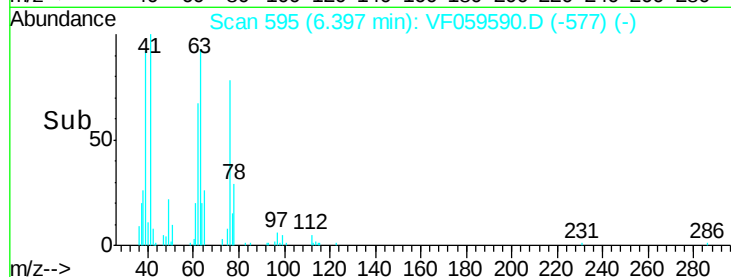
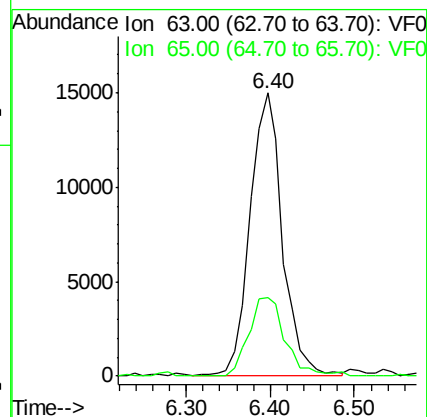
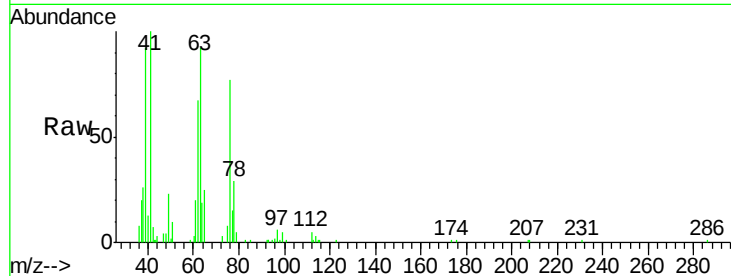
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 63 Resp: 40532

Ion Ratio Lower Upper

63 100

65 27.8 26.1 39.1



#46

Dibromomethane

Concen: 21.408 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

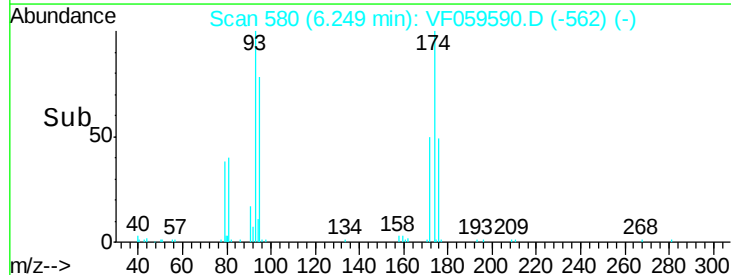
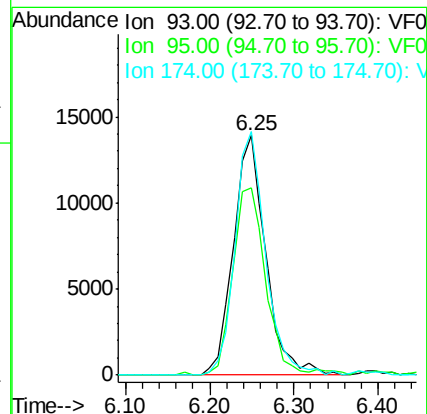
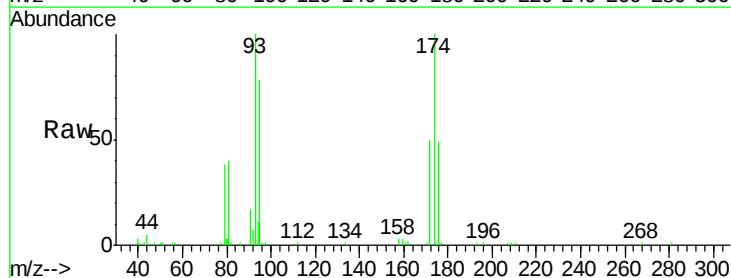
Tgt Ion: 93 Resp: 37165

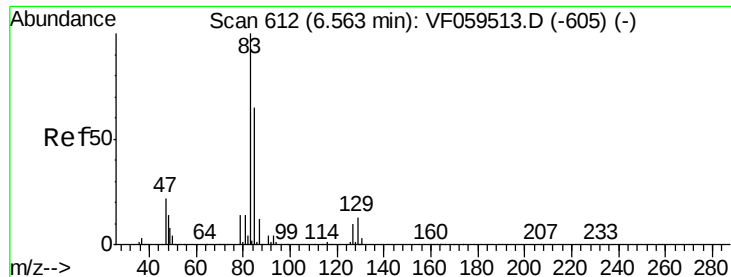
Ion Ratio Lower Upper

93 100

95 78.4 68.3 102.5

174 101.8 81.2 121.8





#47

Bromodichloromethane

Concen: 21.172 ug/l

RT: 6.54 min Scan# 610

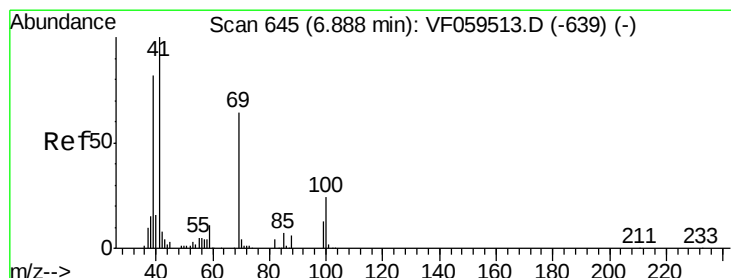
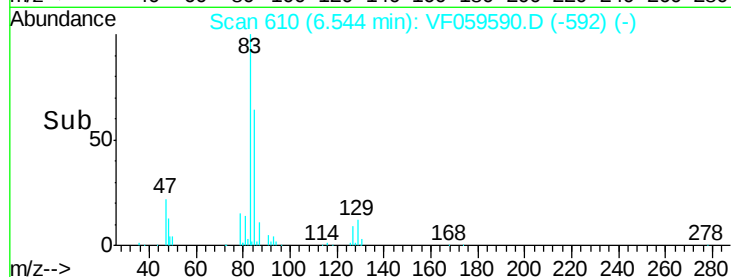
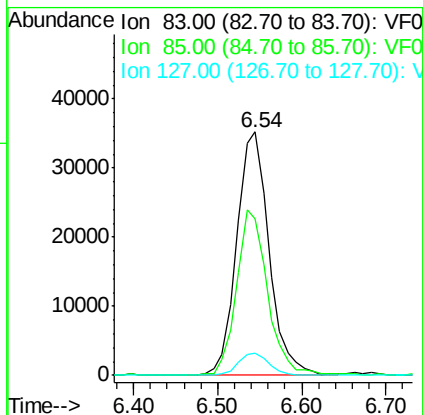
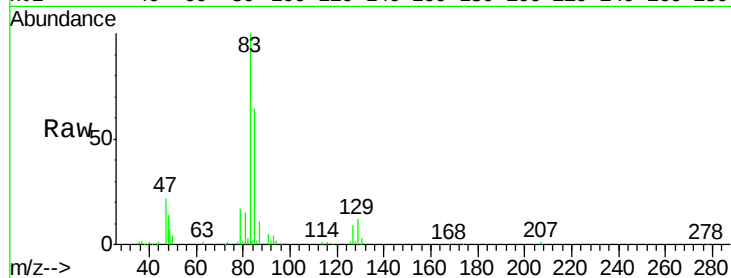
Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :  
MSVOA\_F  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 83    | Resp: | 94611 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 64.1  | 52.4  | 78.6  |
| 127      | 9.8   | 8.2   | 12.4  |



#48

Methyl methacrylate

Concen: 17.895 ug/l

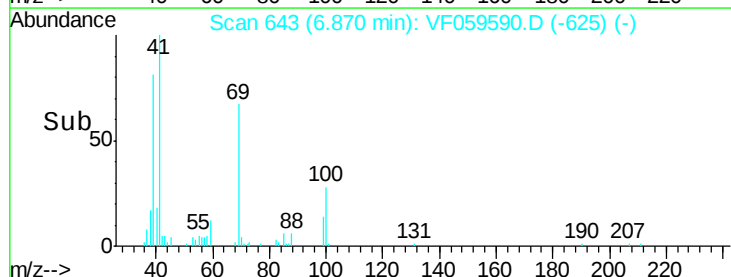
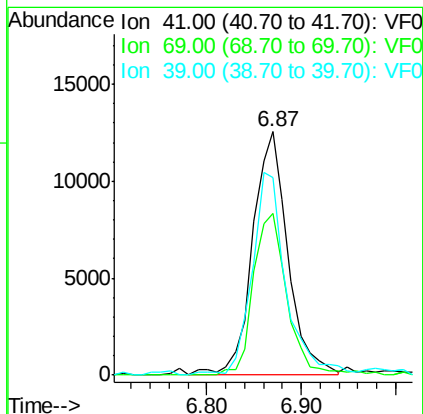
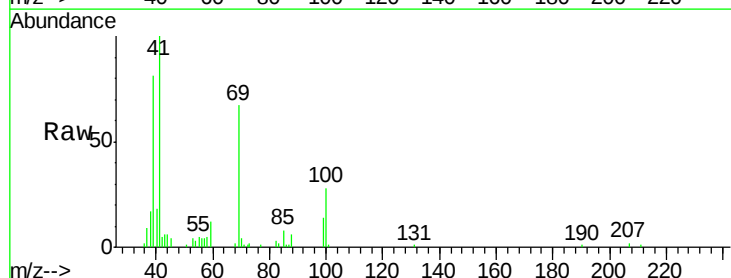
RT: 6.87 min Scan# 643

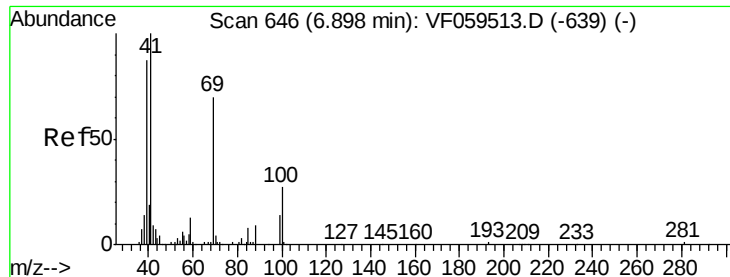
Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 32511 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 66.7  | 51.3  | 76.9  |
| 39       | 81.3  | 65.3  | 97.9  |





#49

1,4-Dioxane

Concen: 326.052 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.04 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

ClientSampleId :

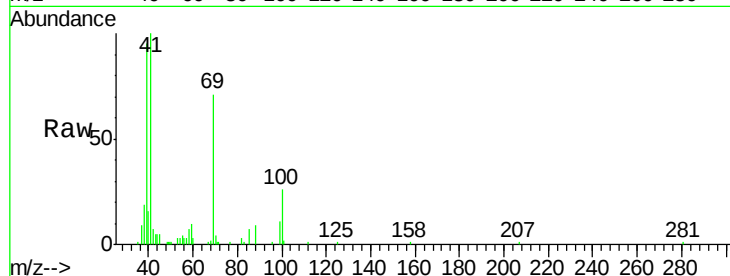
Tot Ion: 88 Resp: 2981

Ion Ratio Lower Upper

88 100

43 59.4 64.8 97.2#

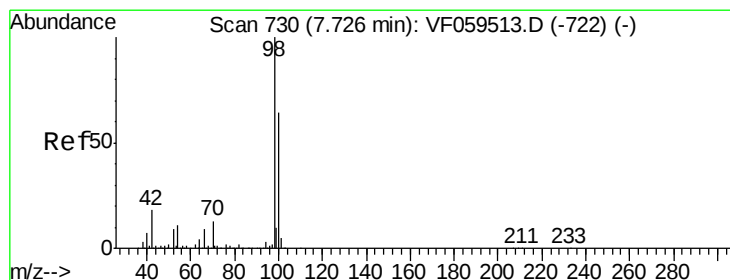
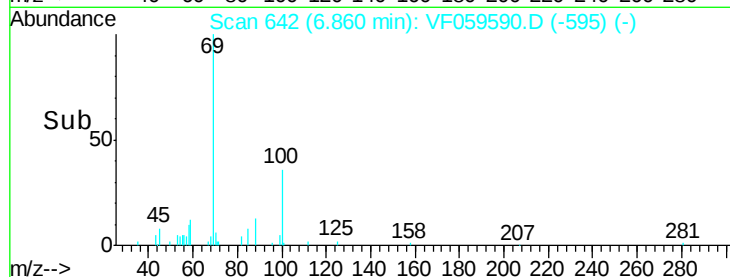
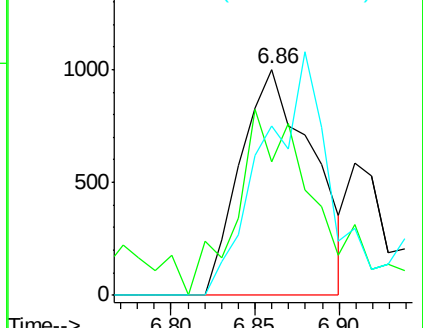
58 75.2 44.1 66.1#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 50.026 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.03 min

Lab File: VF059590.D

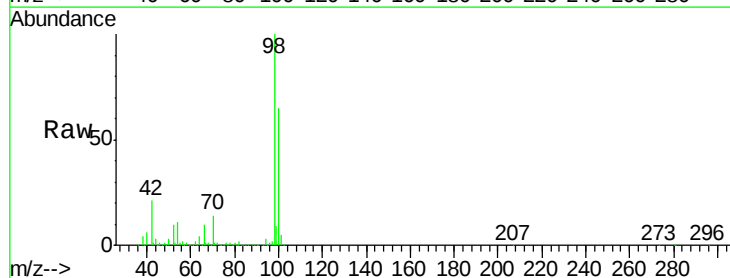
Acq: 20 Jul 2018 19:36

Tgt Ion: 98 Resp: 386002

Ion Ratio Lower Upper

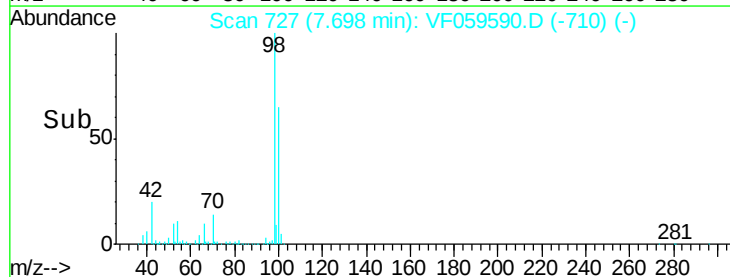
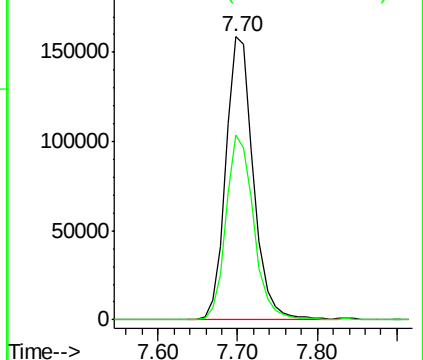
98 100

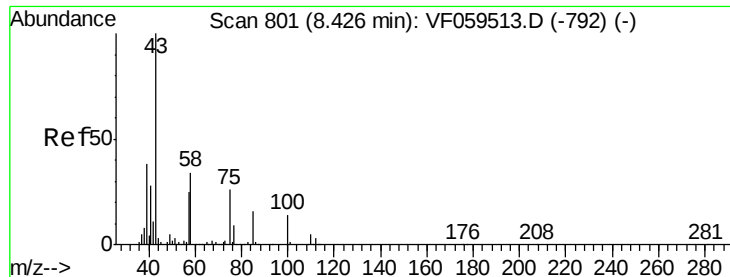
100 65.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 89.133 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.03 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

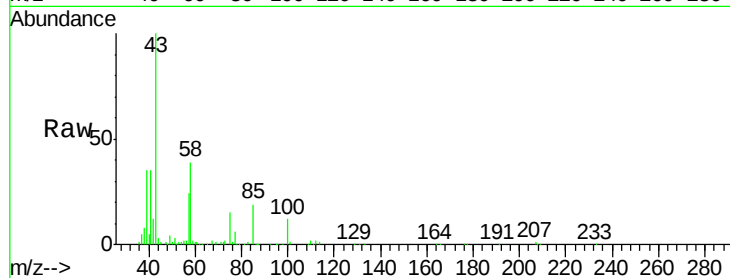
ClientSampleId :

Tot Ion: 43 Resp: 160727

Ion Ratio Lower Upper

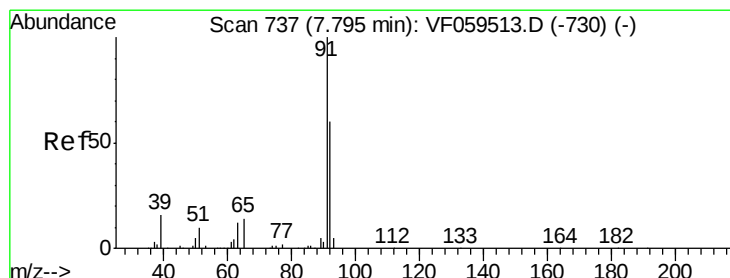
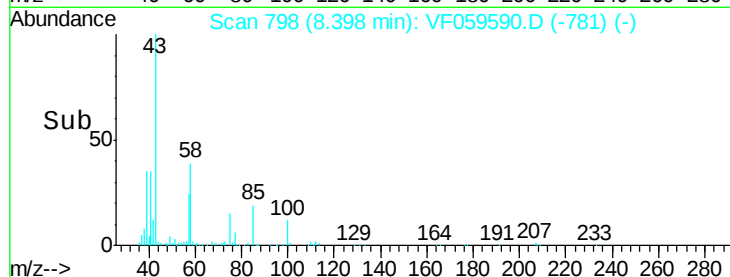
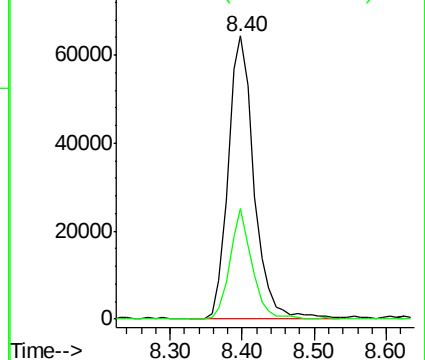
43 100

58 38.9 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.335 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.03 min

Lab File: VF059590.D

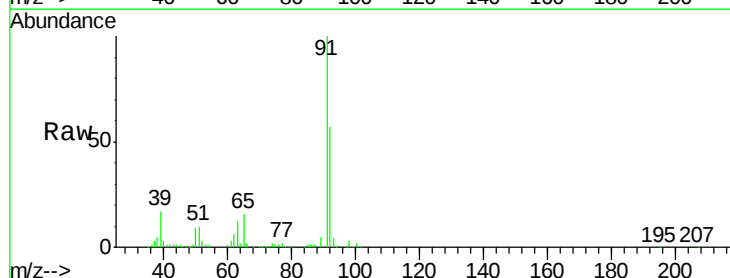
Acq: 20 Jul 2018 19:36

Tgt Ion: 92 Resp: 111254

Ion Ratio Lower Upper

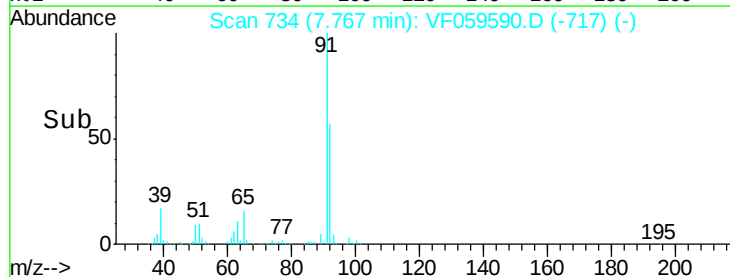
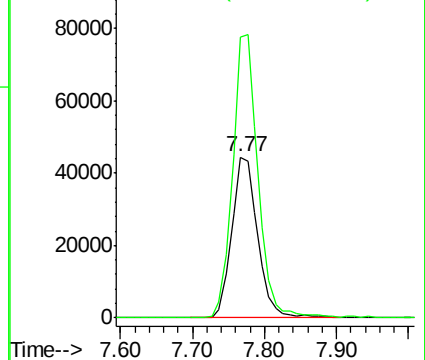
92 100

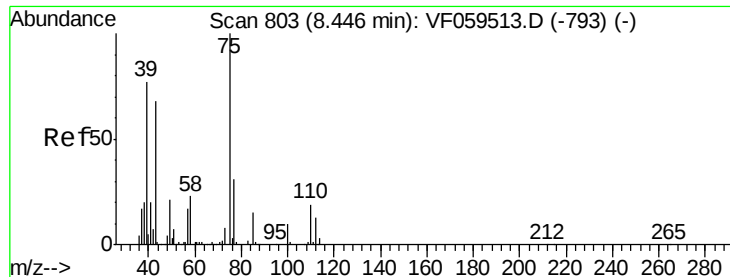
91 174.6 134.2 201.4



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 19.332 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.03 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

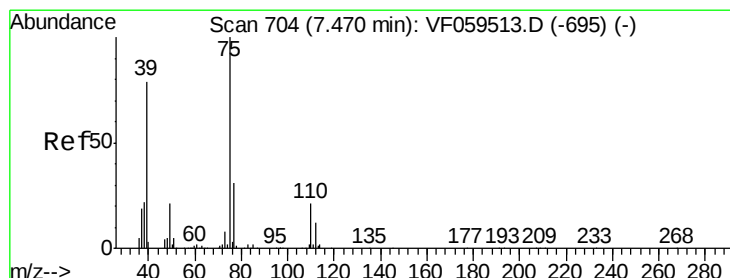
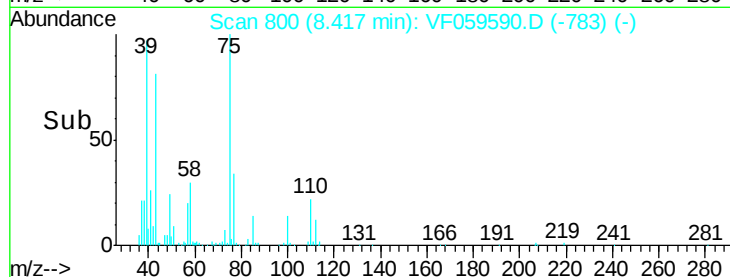
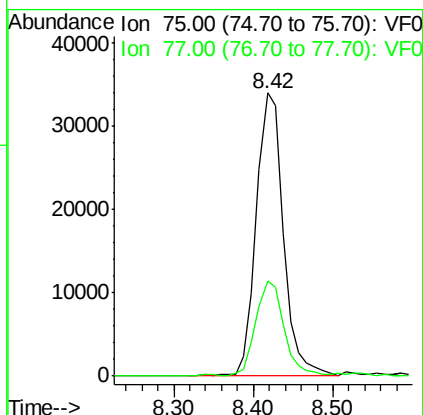
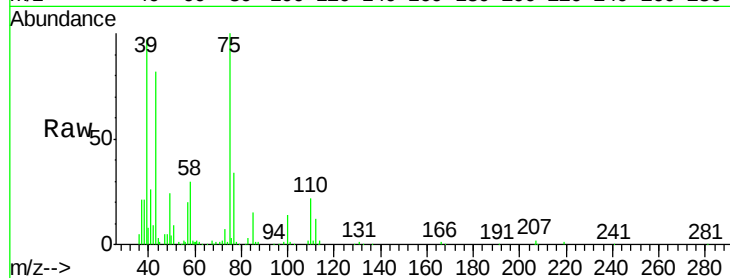
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 75 Resp: 79464

Ion Ratio Lower Upper

75 100

77 33.6 25.3 37.9



#54

cis-1,3-Dichloropropene

Concen: 21.659 ug/l

RT: 7.45 min Scan# 702

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

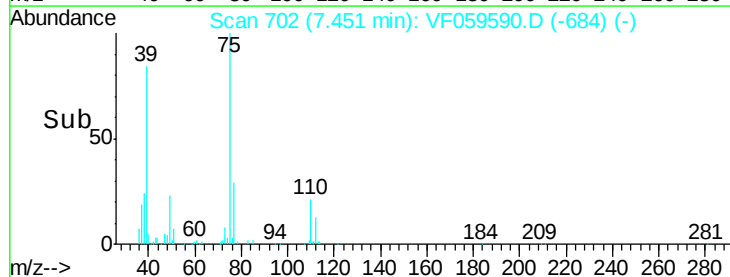
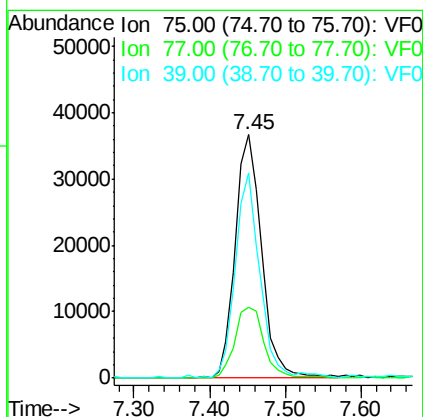
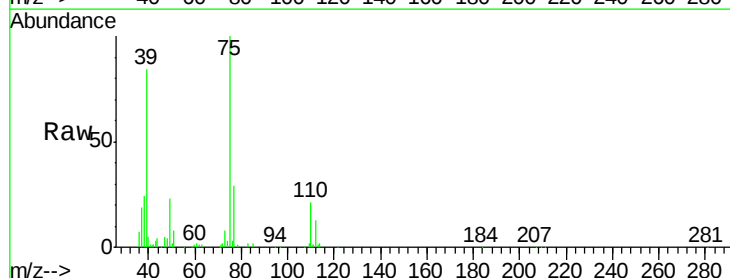
Tgt Ion: 75 Resp: 88644

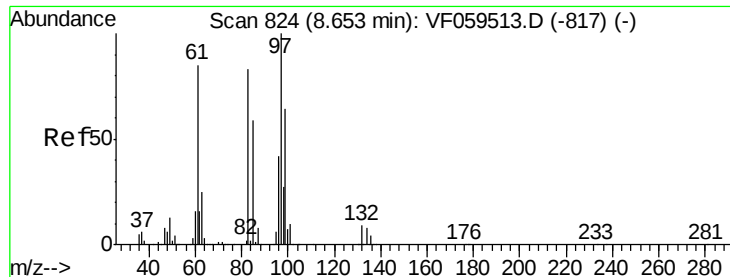
Ion Ratio Lower Upper

75 100

77 29.3 25.0 37.6

39 84.4 63.8 95.6





#55

1,1,2-Trichloroethane

Concen: 20.670 ug/l

RT: 8.63 min Scan# 822

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

ClientSampleId :

Tot Ion: 97 Resp: 39893

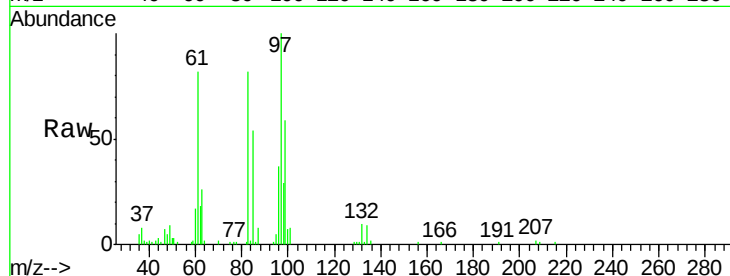
Ion Ratio Lower Upper

97 100

83 82.0 66.9 100.3

85 54.1 46.9 70.3

99 58.6 51.5 77.3

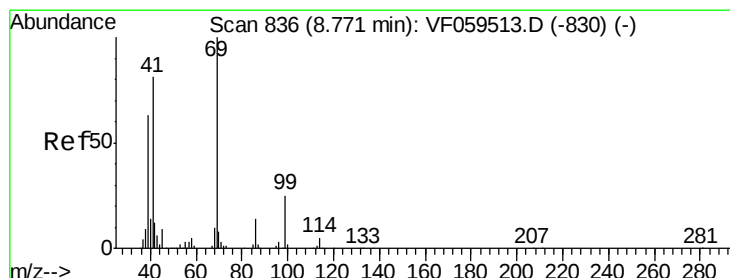
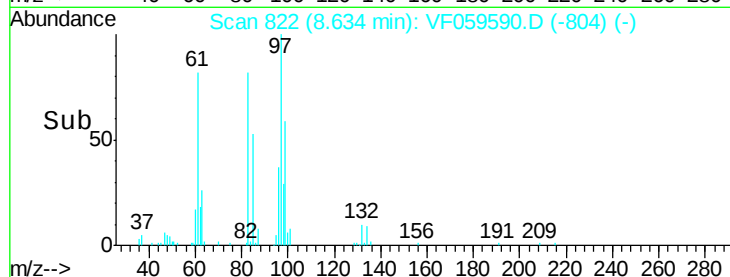
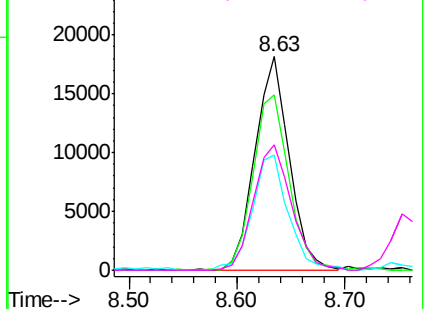


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 19.241 ug/l

RT: 8.75 min Scan# 834

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

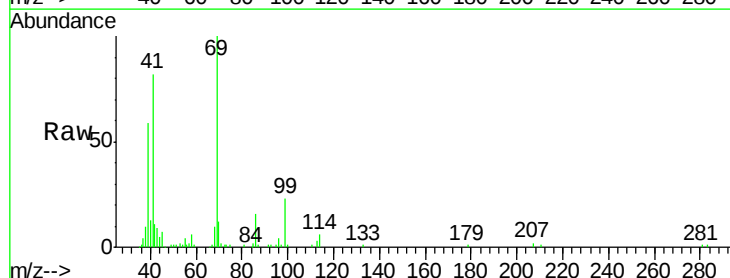
Tgt Ion: 69 Resp: 46051

Ion Ratio Lower Upper

69 100

41 81.6 65.4 98.2

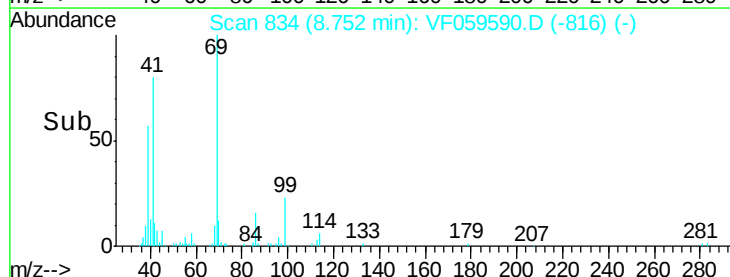
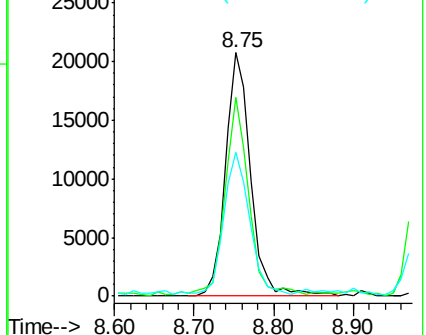
39 59.1 51.0 76.4

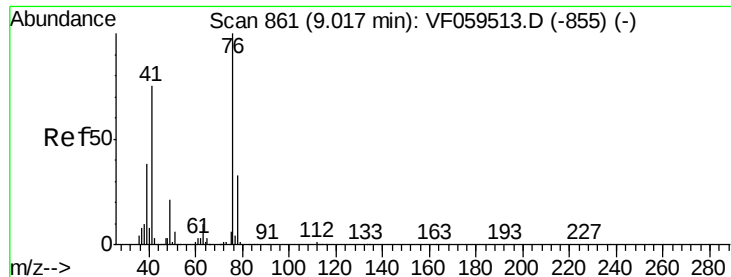


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 20.991 ug/l

RT: 9.00 min Scan# 859

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

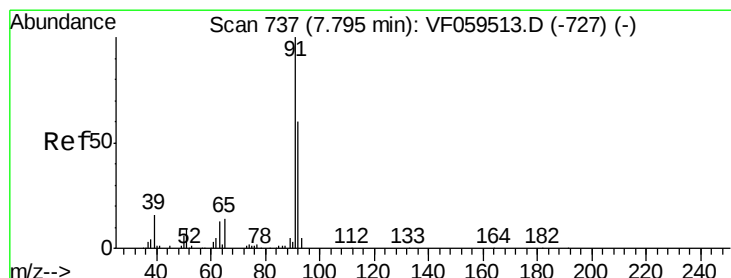
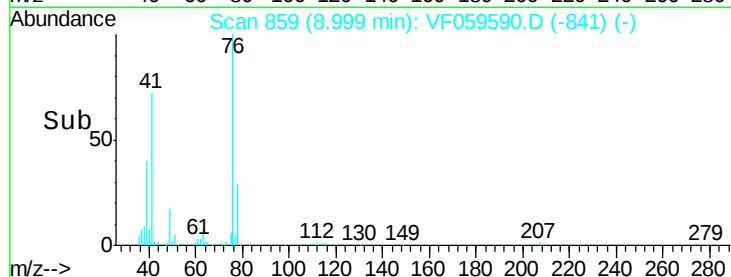
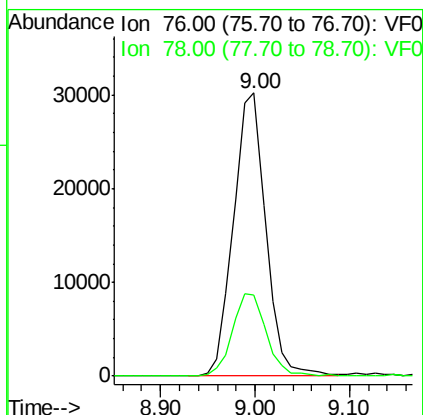
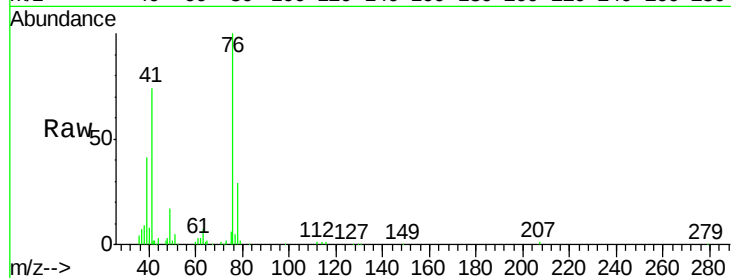
ClientSampleId :

Tot Ion: 76 Resp: 71633

Ion Ratio Lower Upper

76 100

78 28.7 26.4 39.6



#58

2-Chloroethyl Vinyl ether

Concen: 119.169 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.02 min

Lab File: VF059590.D

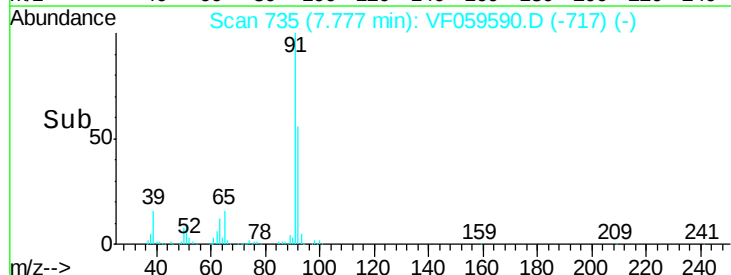
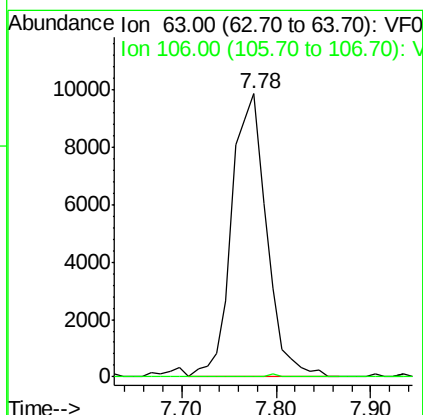
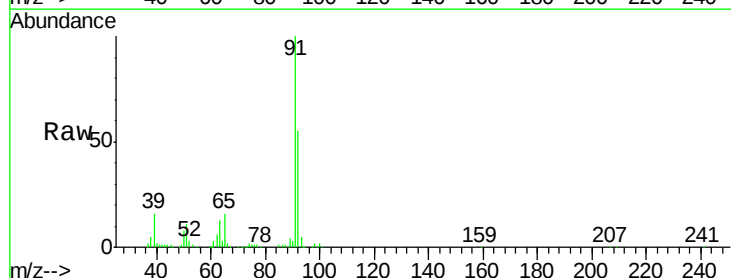
Acq: 20 Jul 2018 19:36

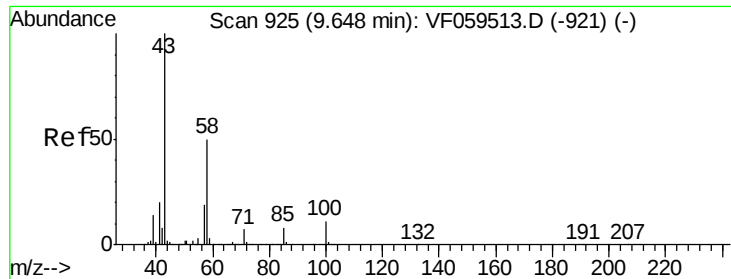
Tgt Ion: 63 Resp: 25181

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

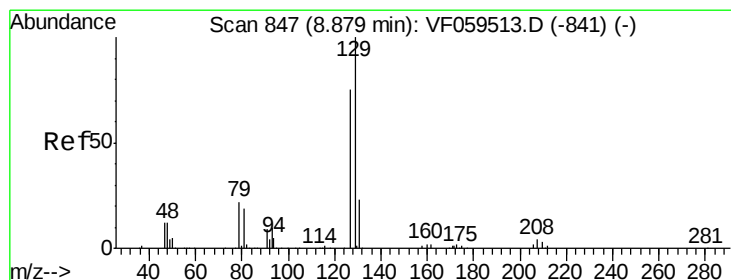
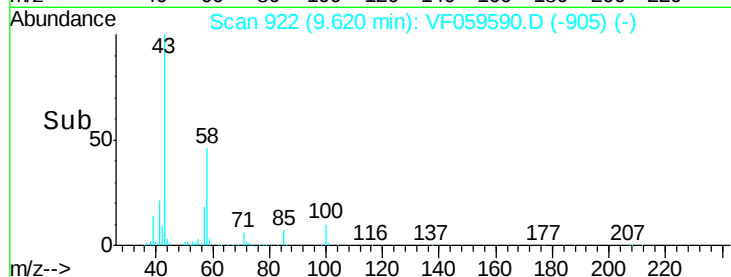
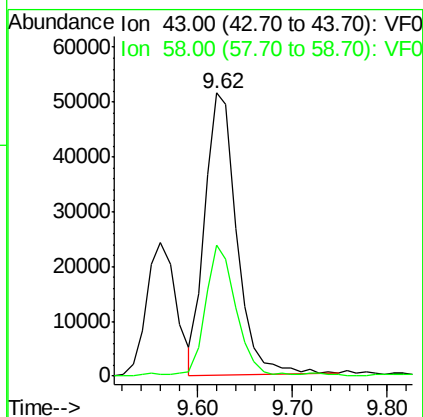
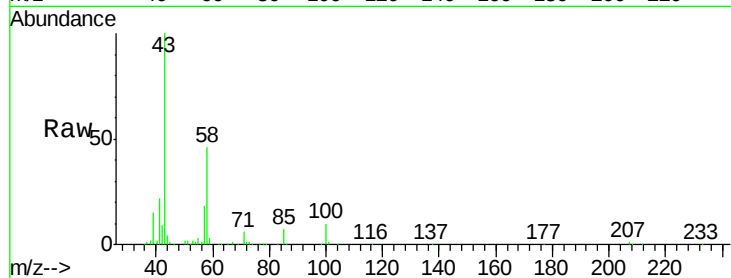




#59  
2-Hexanone  
Concen: 88.558 ug/l  
RT: 9.62 min Scan# 922  
Delta R.T. -0.03 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

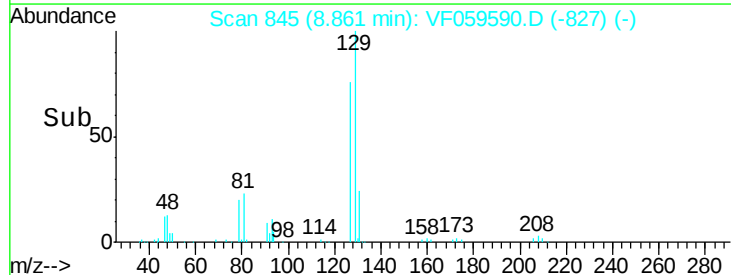
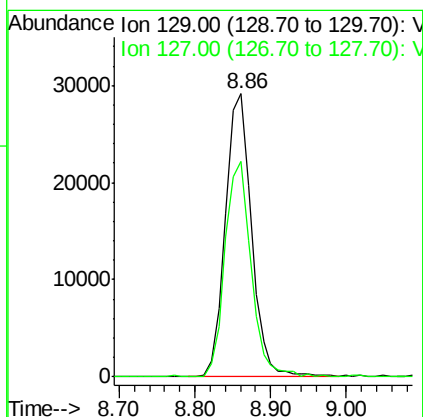
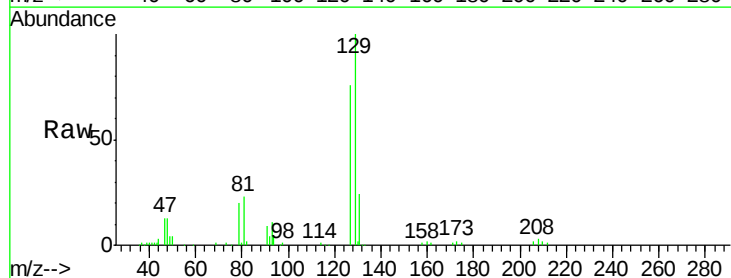
Instrument :  
MSVOA\_F  
ClientSampled :

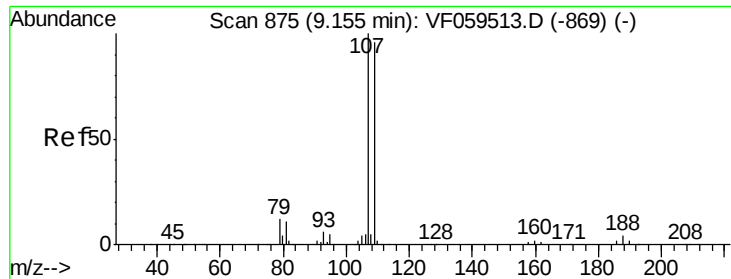
Tot Ion: 43 Resp: 120688  
Ion Ratio Lower Upper  
43 100  
58 46.2 23.3 69.9



#60  
Dibromochloromethane  
Concen: 21.421 ug/l  
RT: 8.86 min Scan# 845  
Delta R.T. -0.02 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

Tgt Ion: 129 Resp: 69672  
Ion Ratio Lower Upper  
129 100  
127 76.1 37.6 112.8





#61

1,2-Dibromoethane

Concen: 20.317 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.03 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

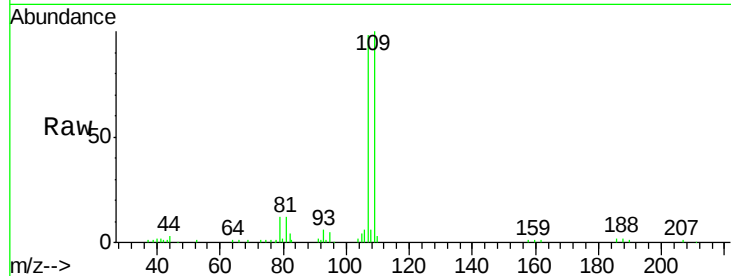
ClientSampleId :

Tot Ion:107 Resp: 48653

Ion Ratio Lower Upper

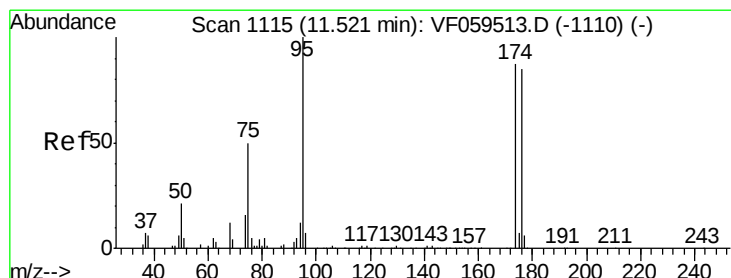
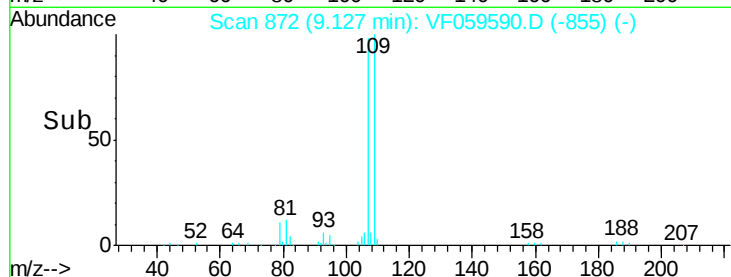
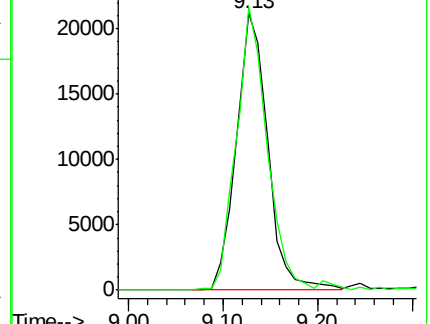
107 100

109 102.4 76.5 114.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 52.771 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

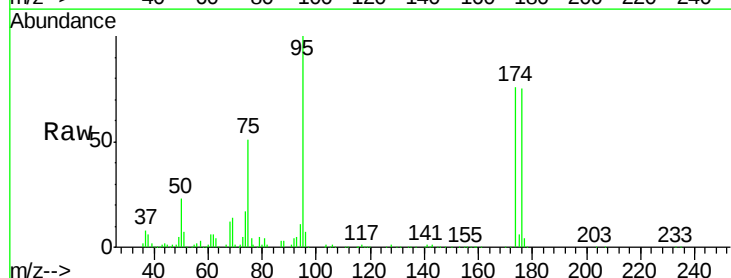
Tgt Ion: 95 Resp: 213606

Ion Ratio Lower Upper

95 100

174 76.0 0.0 174.4

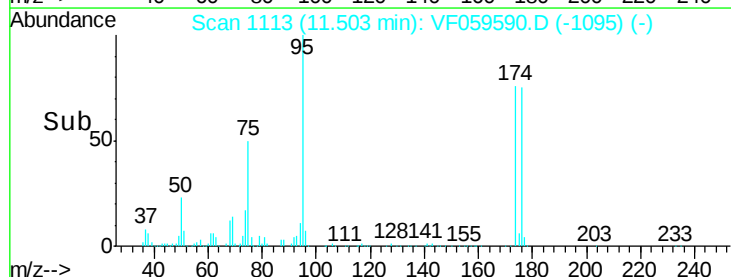
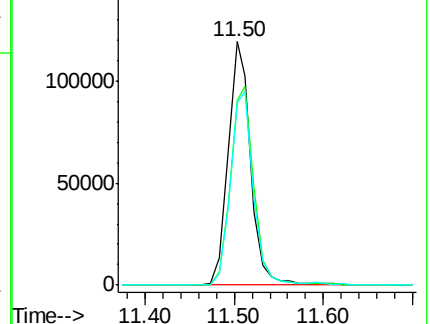
176 74.9 0.0 169.4

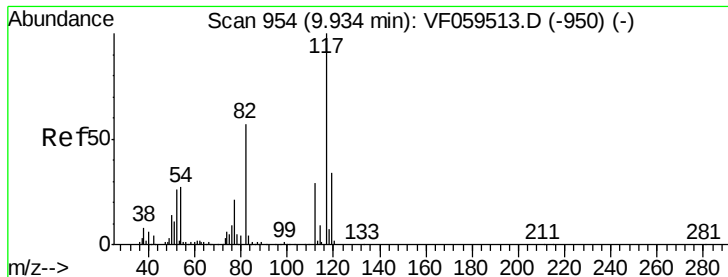


Abundance Ion 95.00 (94.70 to 95.70): VF0

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: 9.92 min Scan# 952

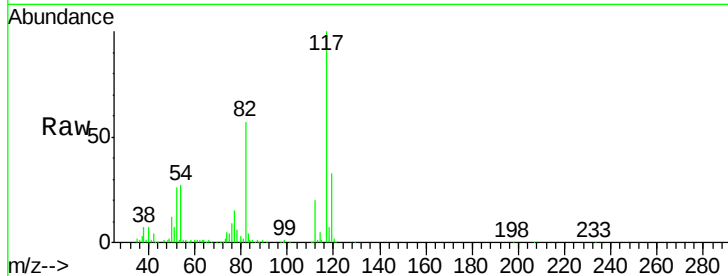
Delta R.T. -0.02 min

Lab File: VF059590.D

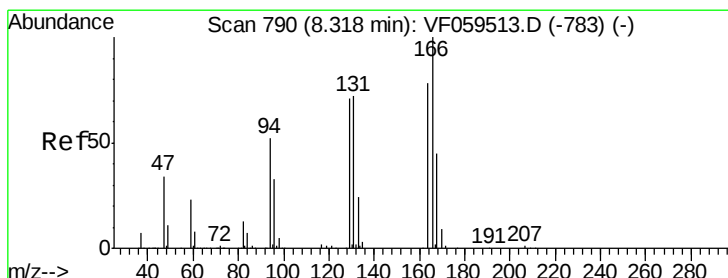
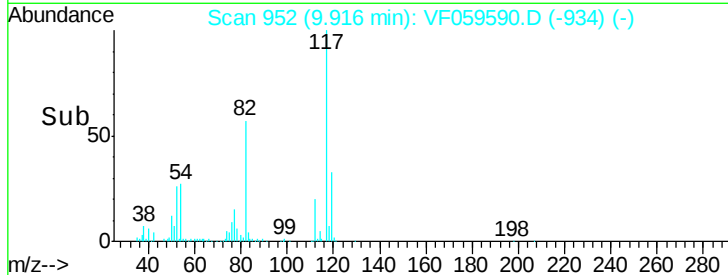
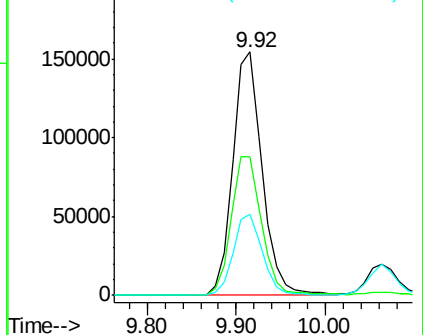
Acq: 20 Jul 2018 19:36

Instrument :  
MSVOA\_F  
ClientSampleId :

|             |       |        |
|-------------|-------|--------|
| Tot Ion:117 | Resp: | 356913 |
| Ion Ratio   | Lower | Upper  |
| 117 100     |       |        |
| 82 56.9     | 46.1  | 69.1   |
| 119 33.2    | 27.2  | 40.8   |



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



#64

Tetrachloroethene

Concen: 22.266 ug/l

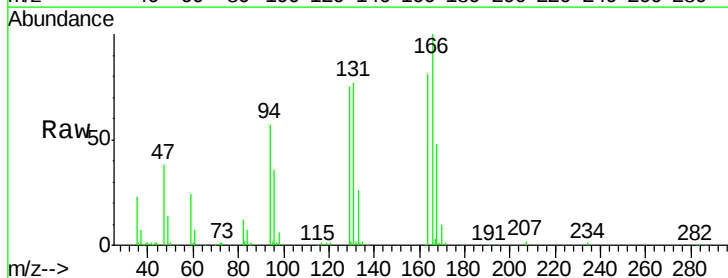
RT: 8.30 min Scan# 788

Delta R.T. -0.02 min

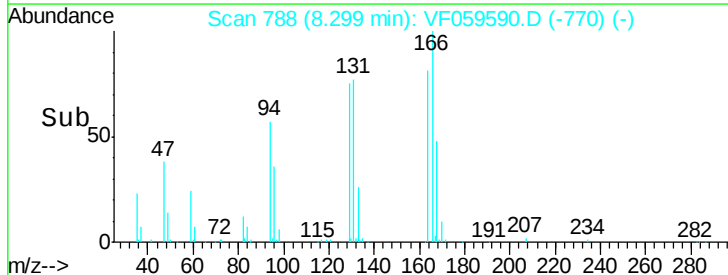
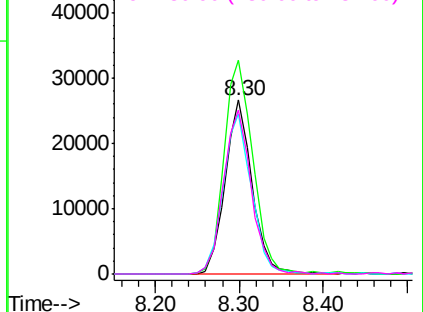
Lab File: VF059590.D

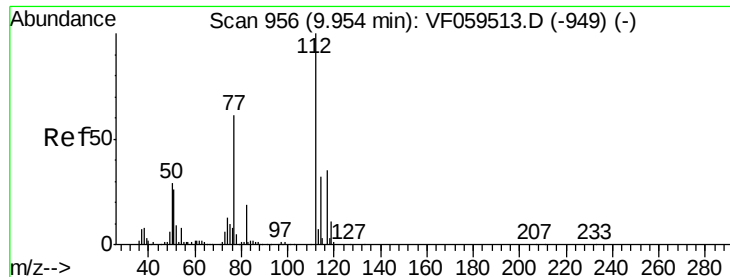
Acq: 20 Jul 2018 19:36

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:164 | Resp: | 59179 |
| Ion Ratio   | Lower | Upper |
| 164 100     |       |       |
| 166 123.0   | 102.3 | 153.5 |
| 129 92.2    | 72.4  | 108.6 |
| 131 94.3    | 73.7  | 110.5 |



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: 23.174 ug/l

RT: 9.94 min Scan# 954

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

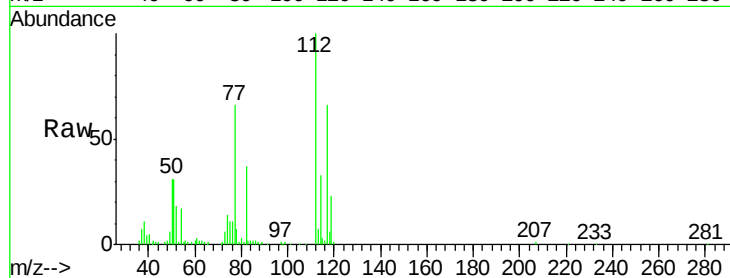
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:112 Resp: 155115

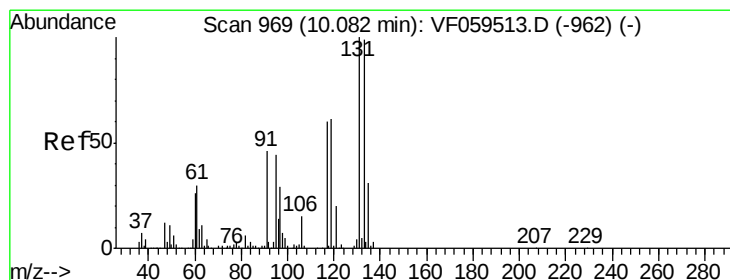
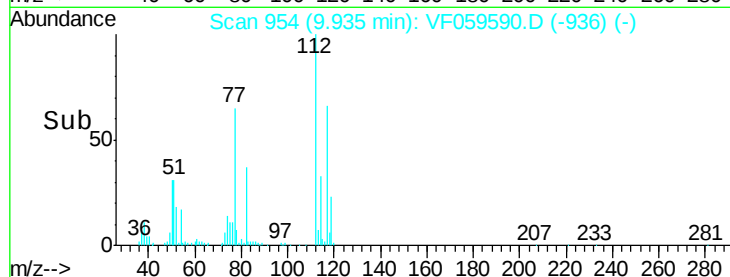
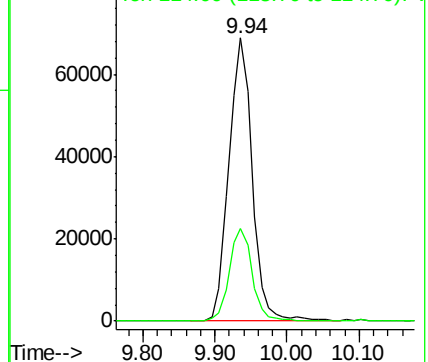
Ion Ratio Lower Upper

112 100

114 32.6 25.4 38.2



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.433 ug/l

RT: 10.06 min Scan# 967

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

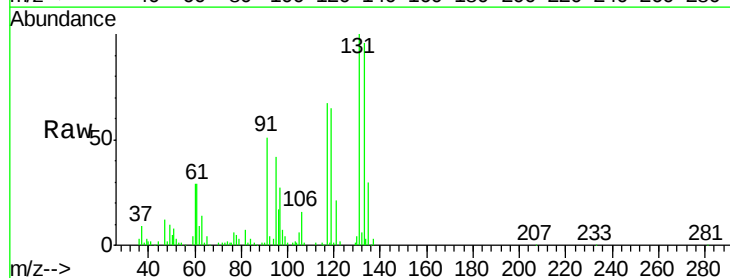
Tgt Ion:131 Resp: 65346

Ion Ratio Lower Upper

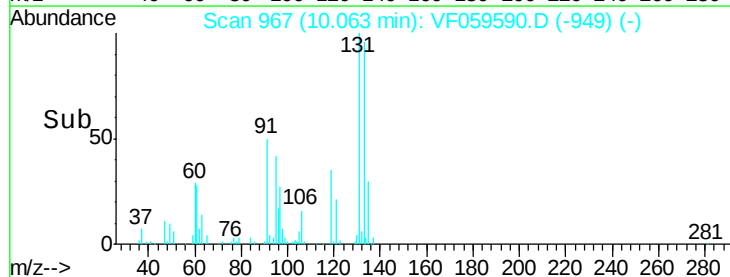
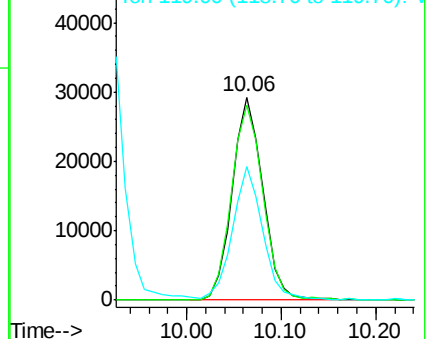
131 100

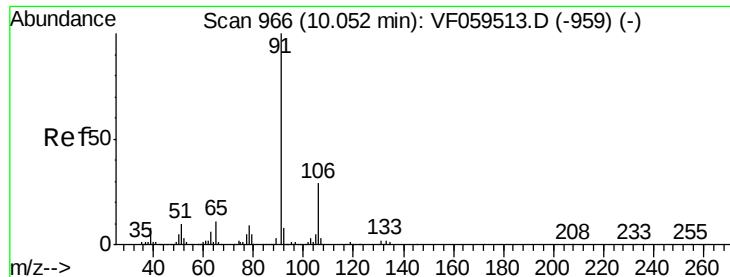
133 95.9 49.6 148.8

119 66.1 31.4 94.3



Abundance Ion 131.00 (130.70 to 131.70): V  
Ion 133.00 (132.70 to 133.70): V  
Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 23.483 ug/l

RT: 10.03 min Scan# 964

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

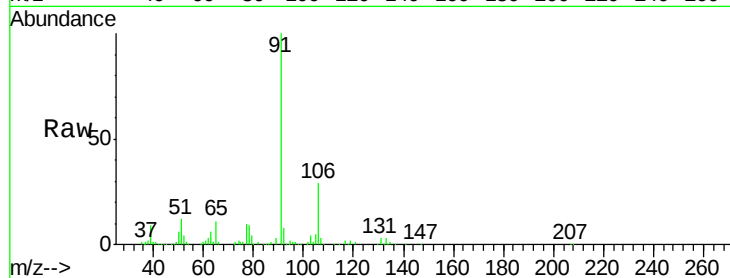
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion: 91 Resp: 279792

Ion Ratio Lower Upper

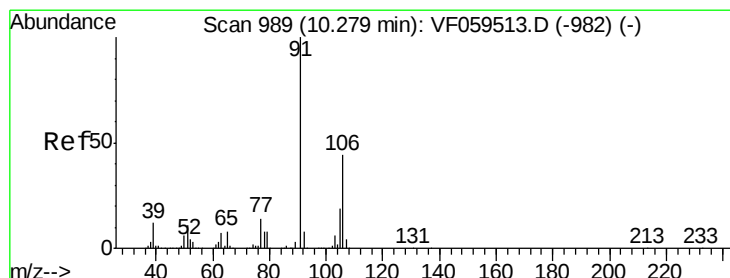
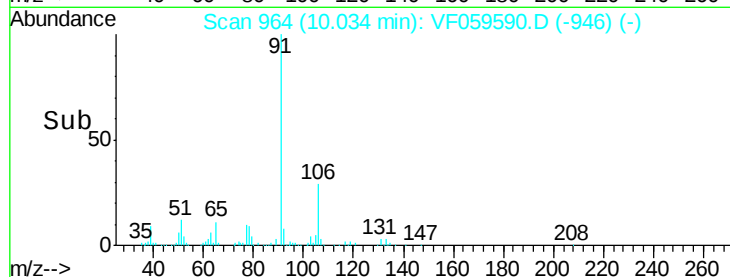
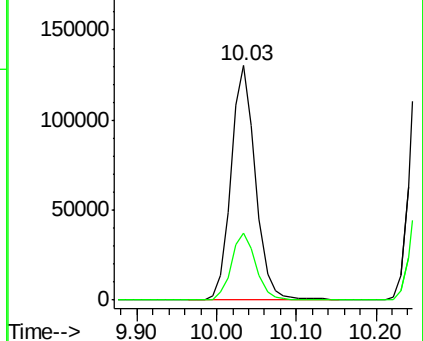
91 100

106 28.9 23.4 35.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 47.526 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.02 min

Lab File: VF059590.D

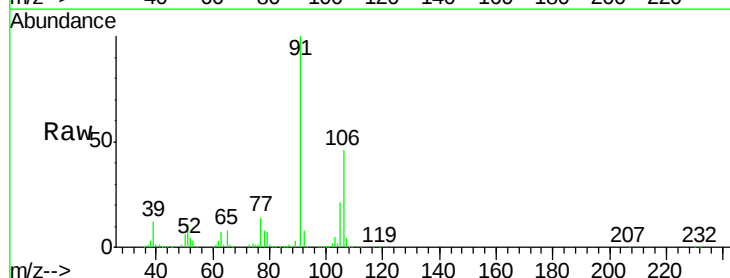
Acq: 20 Jul 2018 19:36

Tgt Ion:106 Resp: 199861

Ion Ratio Lower Upper

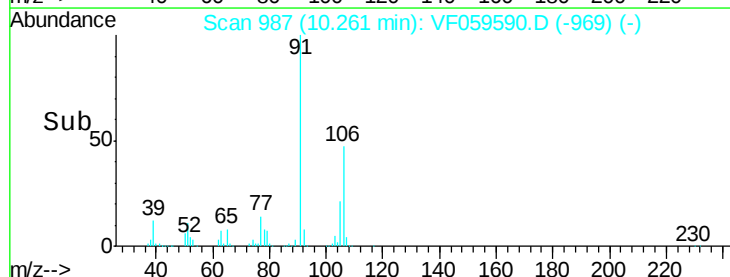
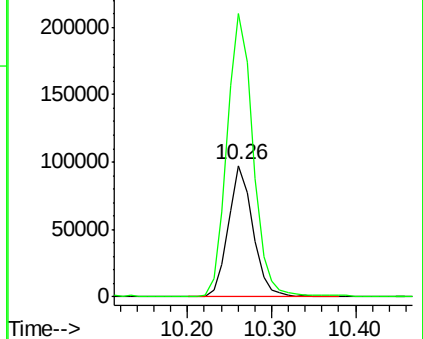
106 100

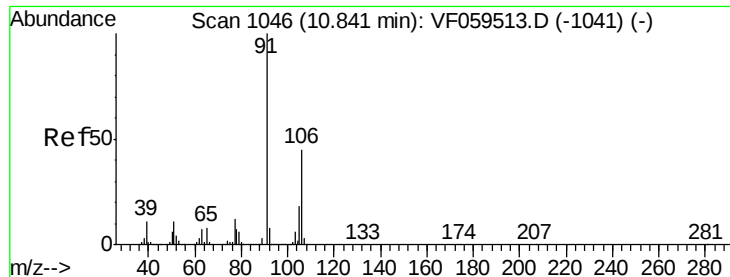
91 215.7 181.0 271.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

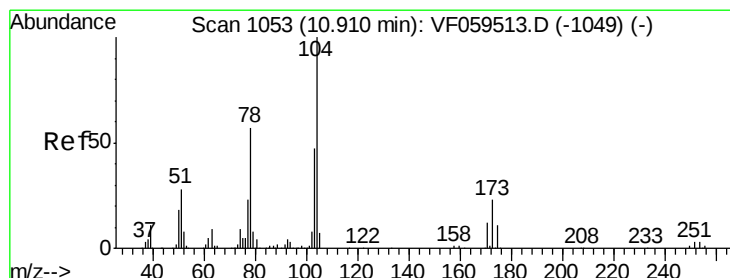
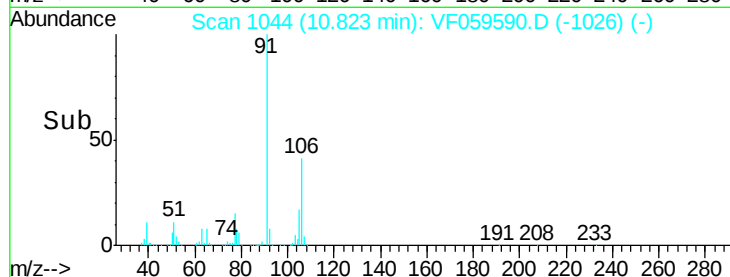
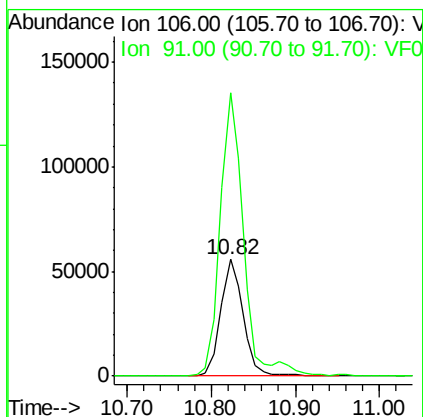
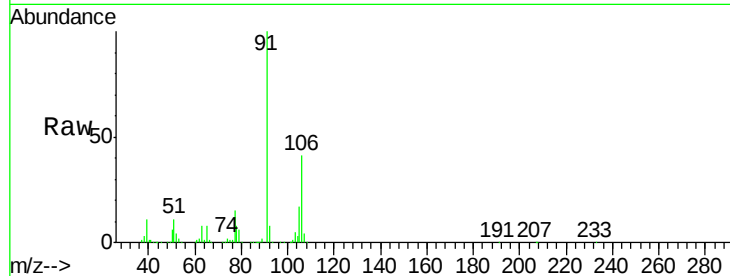




#69  
o-Xylene  
Concen: 23.245 ug/l  
RT: 10.82 min Scan# 1044  
Delta R.T. -0.02 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

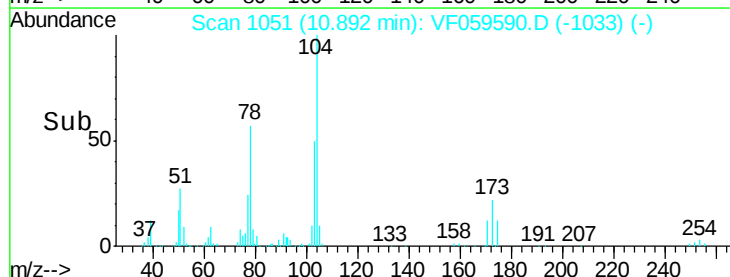
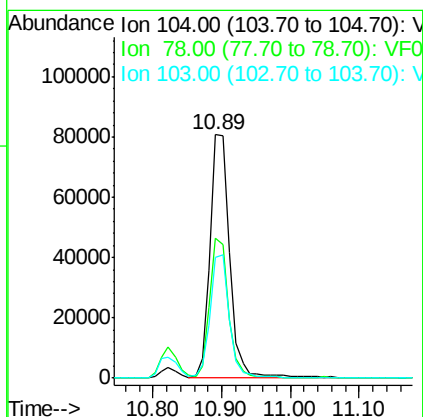
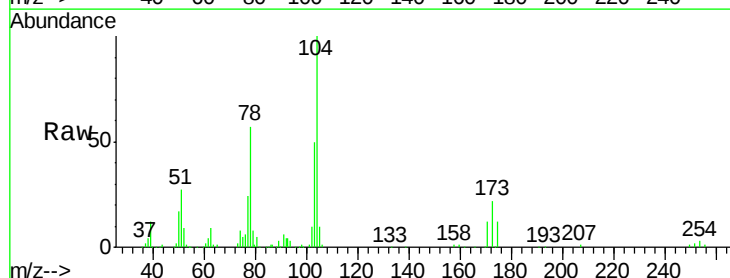
Instrument :  
MSVOA\_F  
ClientSampled :

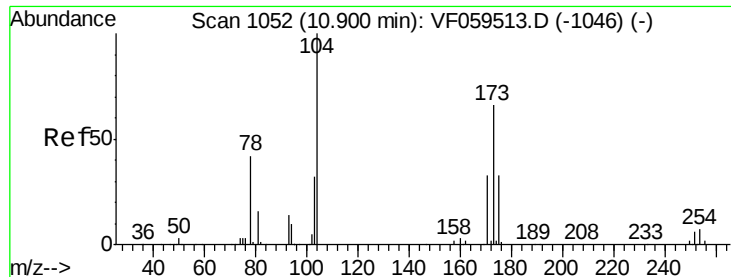
Tot Ion:106 Resp: 104091  
Ion Ratio Lower Upper  
106 100  
91 243.1 112.3 336.9



#70  
Styrene  
Concen: 23.402 ug/l  
RT: 10.89 min Scan# 1051  
Delta R.T. -0.02 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

Tgt Ion:104 Resp: 161077  
Ion Ratio Lower Upper  
104 100  
78 57.3 45.7 68.5  
103 49.6 38.1 57.1





#71

Bromoform

Concen: 19.556 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

ClientSampleId :

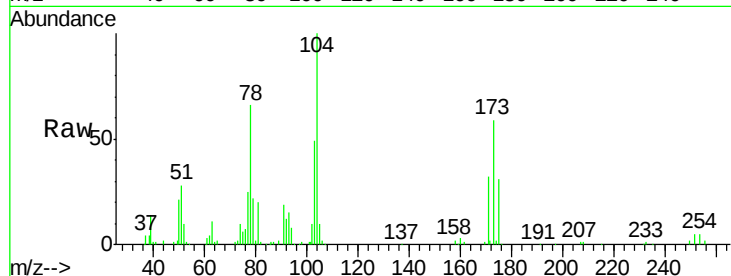
Tot Ion:173 Resp: 41415

Ion Ratio Lower Upper

173 100

175 53.0 25.3 75.8

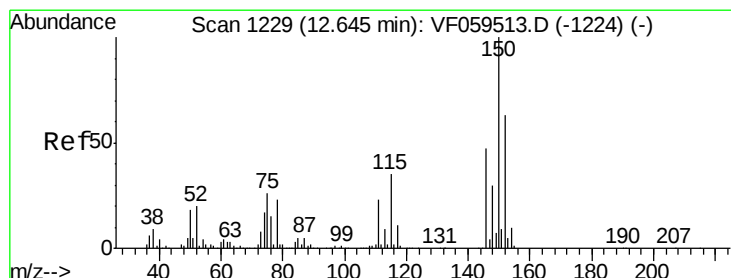
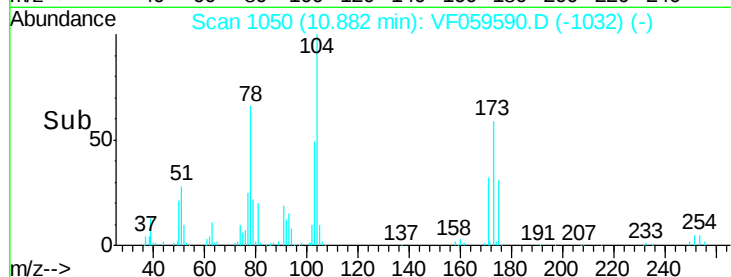
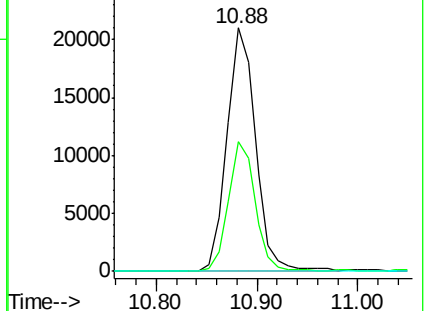
254 0.0 0.0 0.0



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: 12.63 min Scan# 1227

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

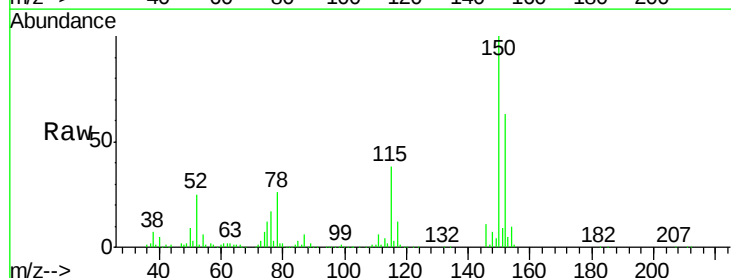
Tgt Ion:152 Resp: 220586

Ion Ratio Lower Upper

152 100

115 60.6 27.8 83.3

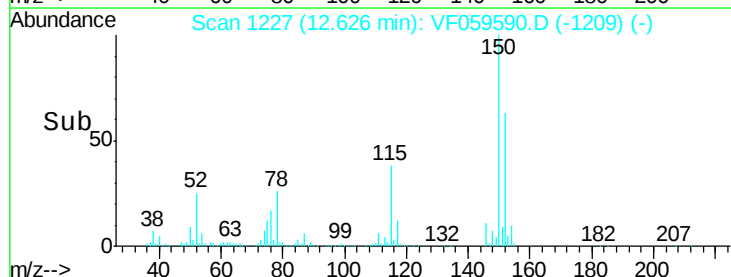
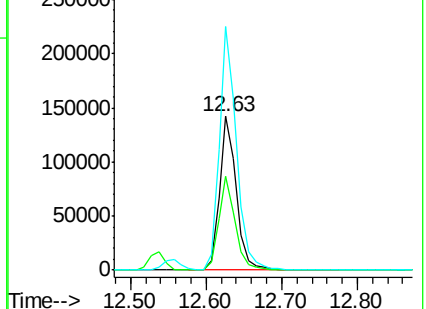
150 158.2 0.0 318.4

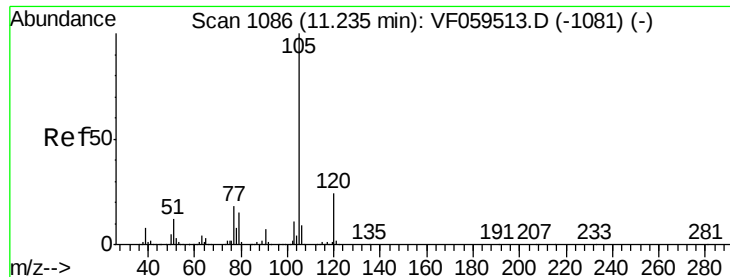


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 23.144 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

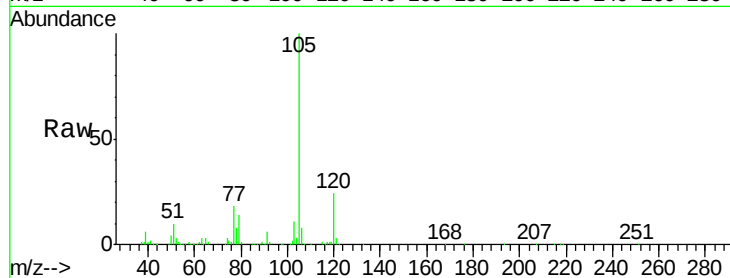
ClientSampleId :

Tot Ion:105 Resp: 322145

Ion Ratio Lower Upper

105 100

120 24.4 12.0 36.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.23

200000

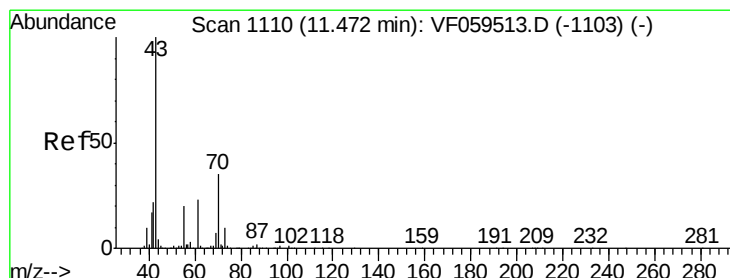
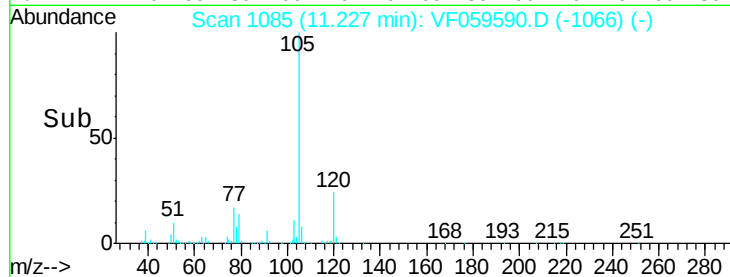
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 15.182 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Tgt Ion: 43 Resp: 67680

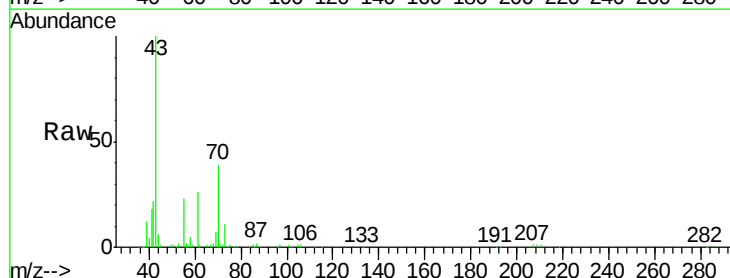
Ion Ratio Lower Upper

43 100

70 39.4 27.9 41.9

55 23.3 16.2 24.2

61 26.2 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

60000

50000

40000

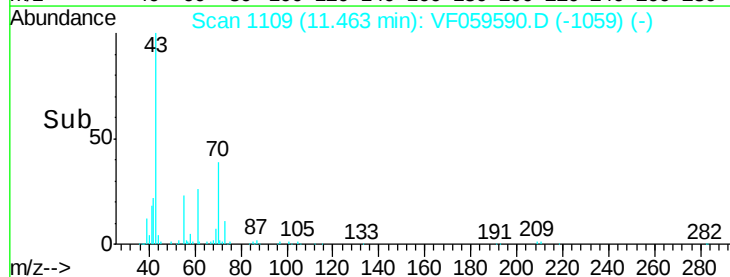
30000

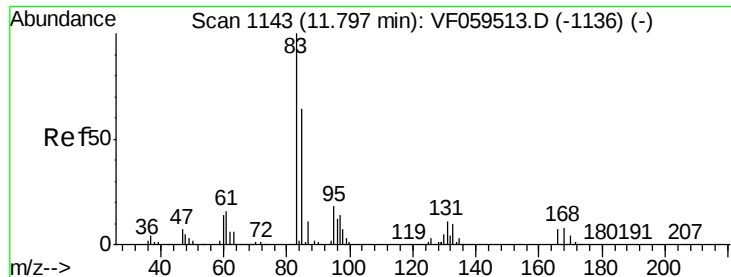
20000

10000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.108 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

ClientSampleId :

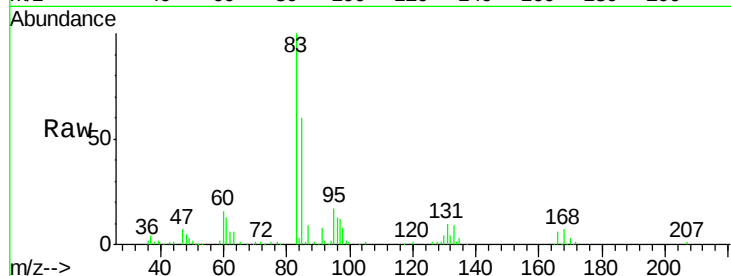
Tot Ion: 83 Resp: 61045

Ion Ratio Lower Upper

83 100

131 10.4 5.7 17.1

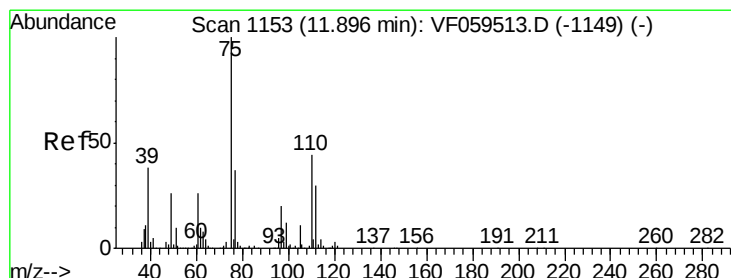
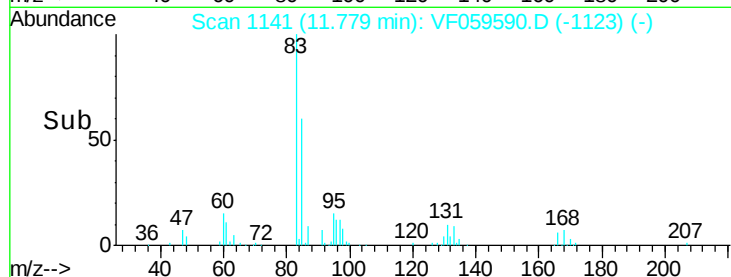
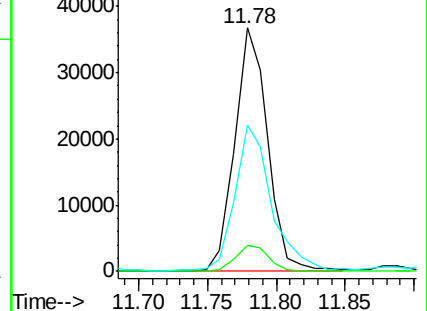
85 60.3 31.9 95.9



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 19.830 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.02 min

Lab File: VF059590.D

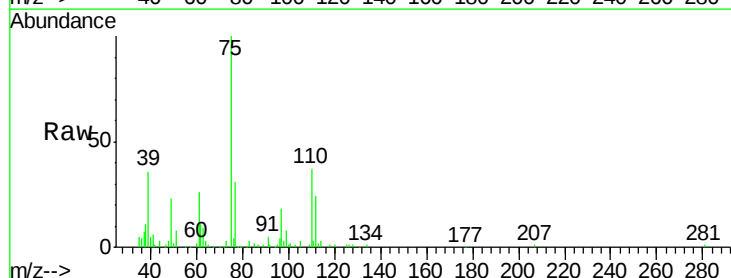
Acq: 20 Jul 2018 19:36

Tgt Ion: 75 Resp: 49162

Ion Ratio Lower Upper

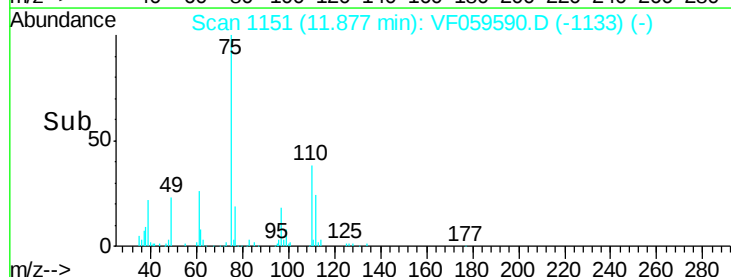
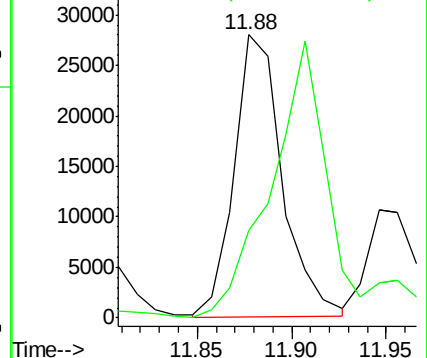
75 100

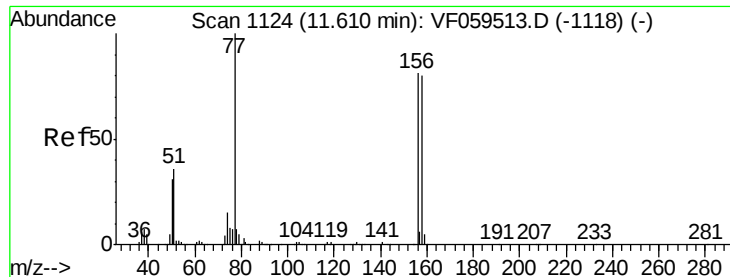
77 31.0 18.7 56.1



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 22.034 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

ClientSampleId :

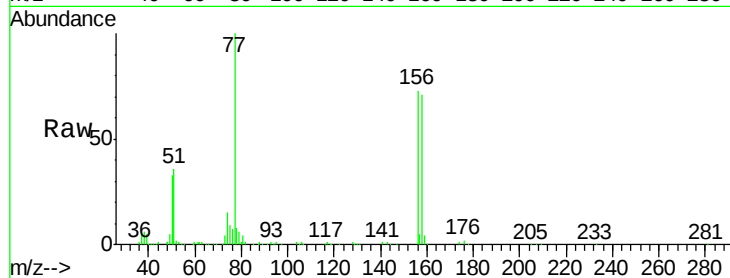
Tot Ion:156 Resp: 85968

Ion Ratio Lower Upper

156 100

77 137.4 62.0 186.0

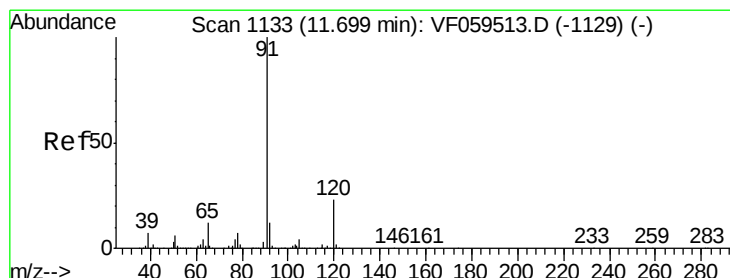
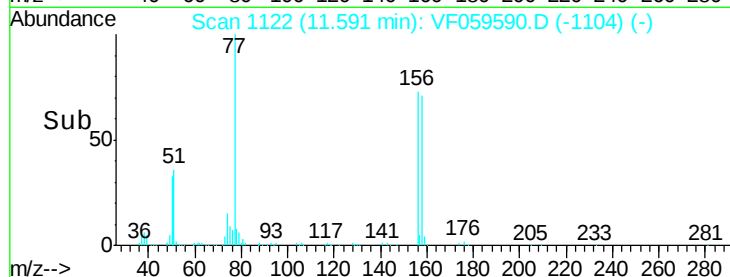
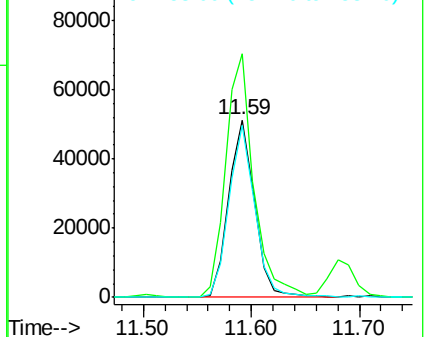
158 97.0 49.8 149.3



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: 23.066 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.02 min

Lab File: VF059590.D

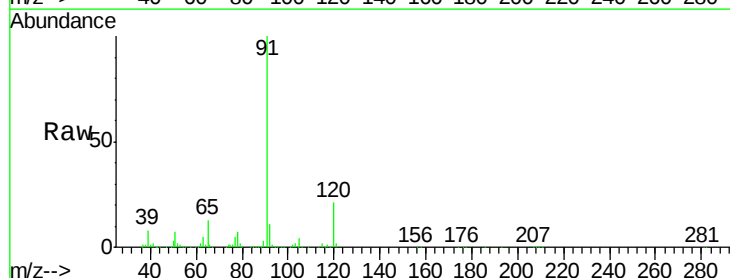
Acq: 20 Jul 2018 19:36

Tgt Ion: 91 Resp: 368294

Ion Ratio Lower Upper

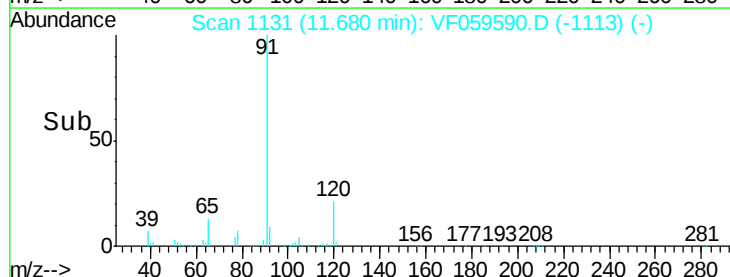
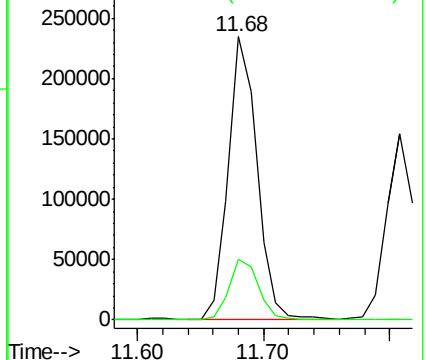
91 100

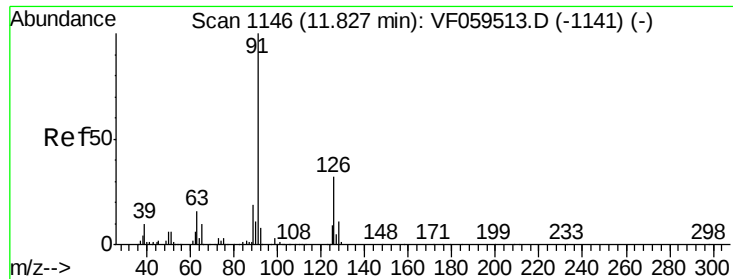
120 21.3 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

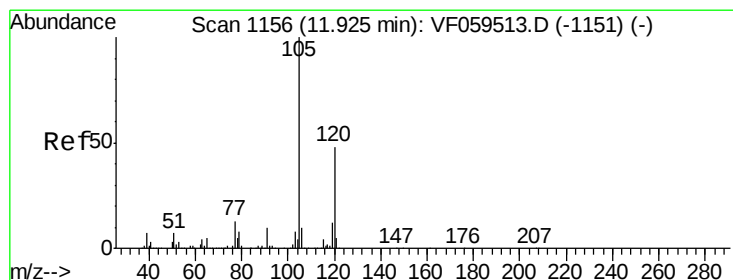
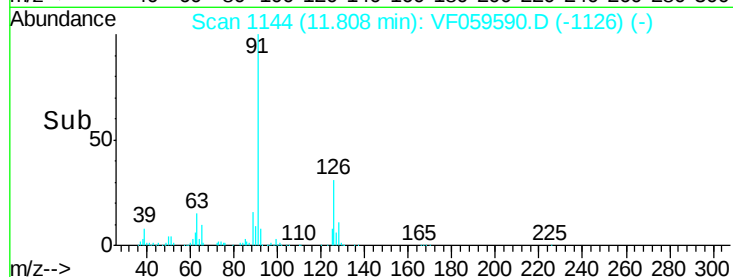
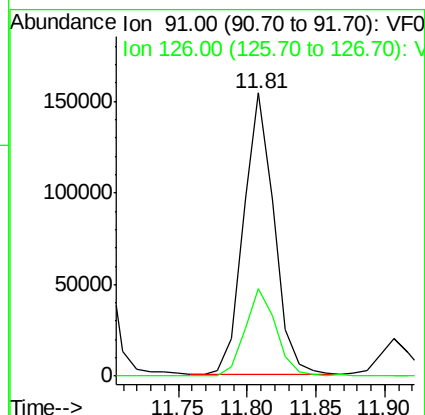
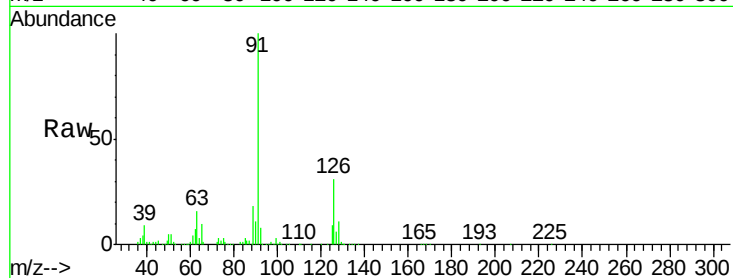




#79  
 2-Chlorotoluene  
 Concen: 24.122 ug/l  
 RT: 11.81 min Scan# 1144  
 Delta R.T. -0.02 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

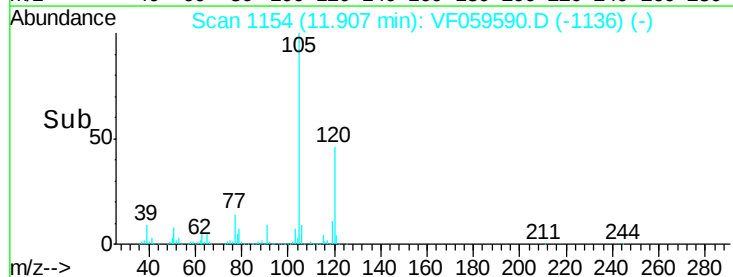
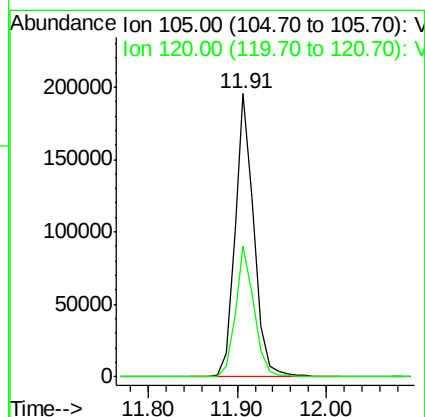
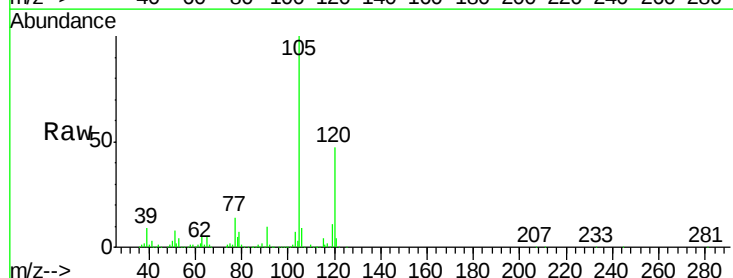
Instrument :  
 MSVOA\_F  
 ClientSampleId :

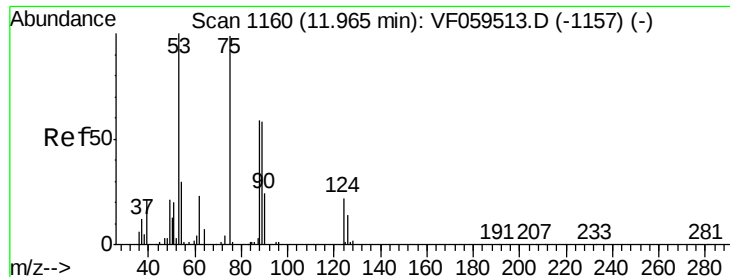
Tot Ion: 91 Resp: 237243  
 Ion Ratio Lower Upper  
 91 100  
 126 30.9 15.7 47.1



#80  
 1,3,5-Trimethylbenzene  
 Concen: 24.847 ug/l  
 RT: 11.91 min Scan# 1154  
 Delta R.T. -0.02 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

Tgt Ion:105 Resp: 289797  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 24.287 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

ClientSampleId :

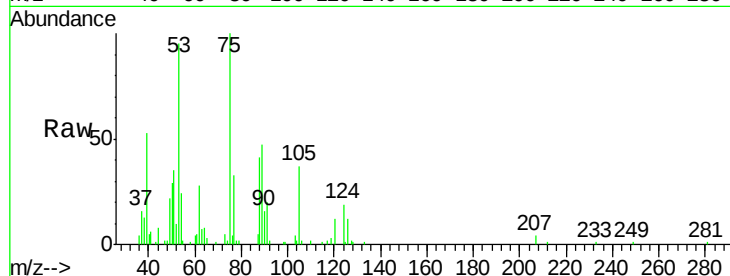
Tot Ion: 75 Resp: 27505

Ion Ratio Lower Upper

75 100

53 95.1 84.6 127.0

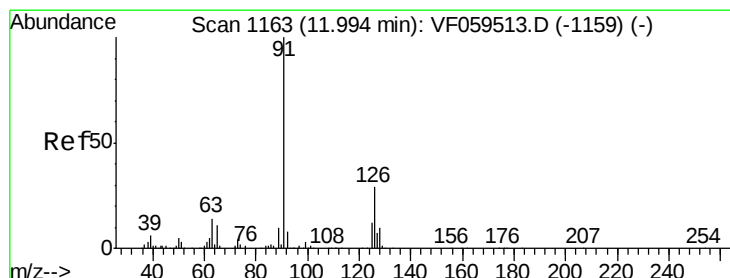
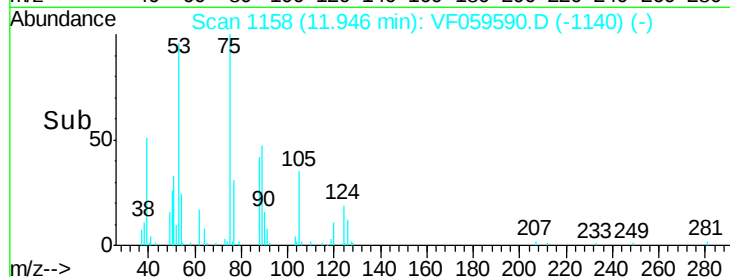
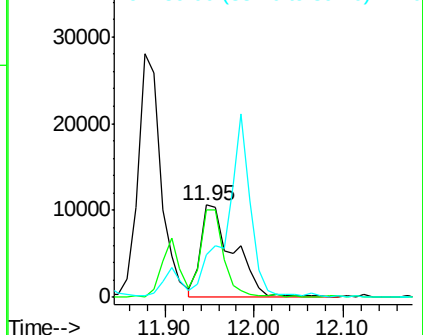
89 46.6 48.2 72.4#



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: 22.958 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. -0.01 min

Lab File: VF059590.D

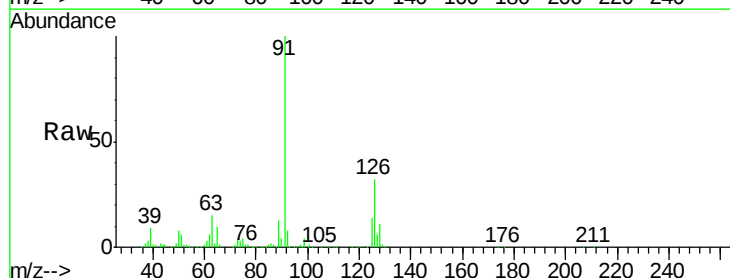
Acq: 20 Jul 2018 19:36

Tgt Ion: 91 Resp: 252997

Ion Ratio Lower Upper

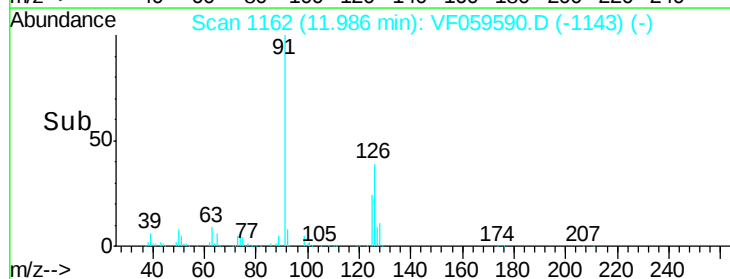
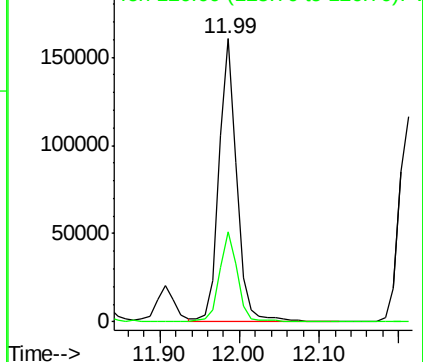
91 100

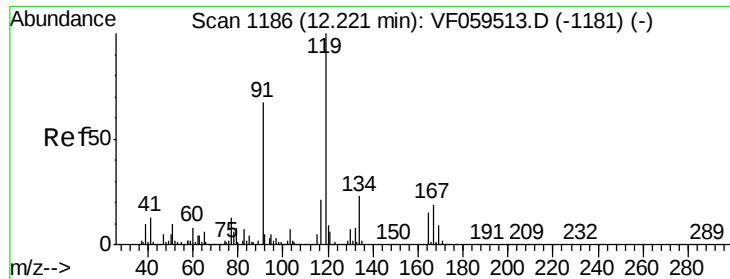
126 31.8 14.4 43.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

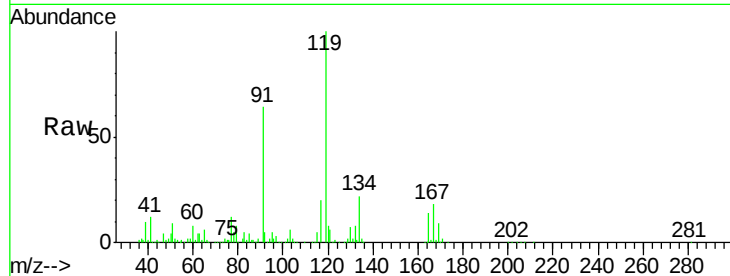




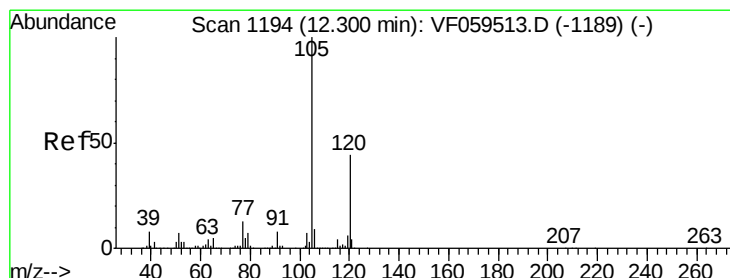
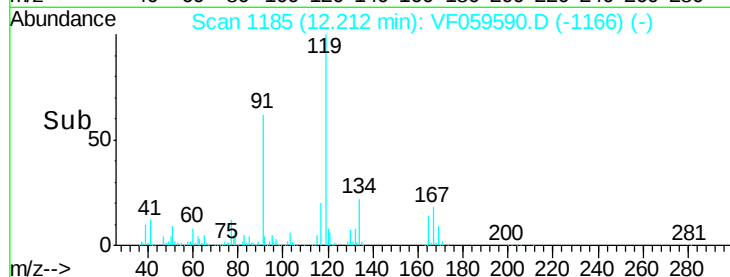
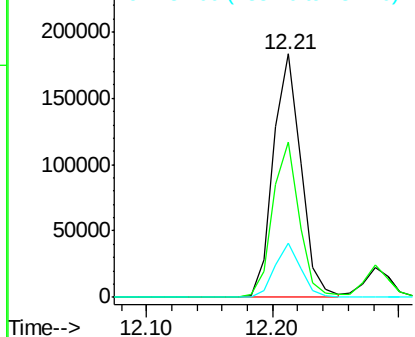
#83  
tert-Butylbenzene  
Concen: 24.994 ug/l  
RT: 12.21 min Scan# 1185  
Delta R.T. -0.01 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:119 Resp: 279784  
Ion Ratio Lower Upper  
119 100  
91 63.5 33.5 100.5  
134 22.0 11.3 33.8

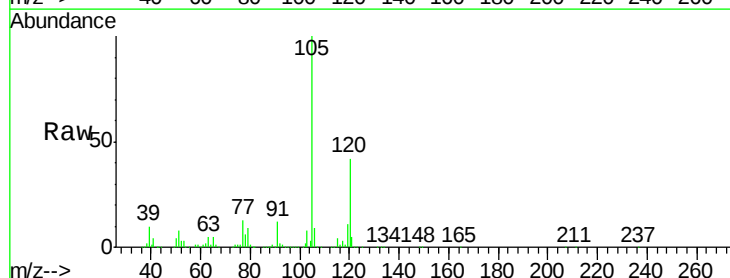


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): VF0  
Ion 134.00 (133.70 to 134.70): V

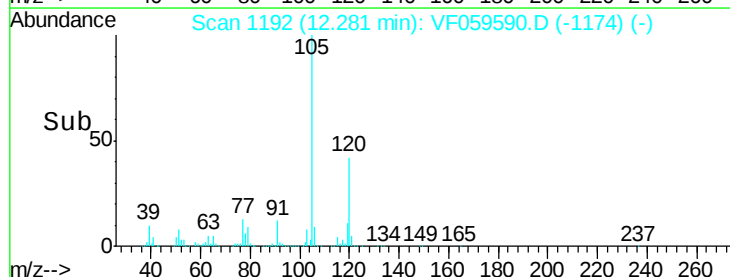
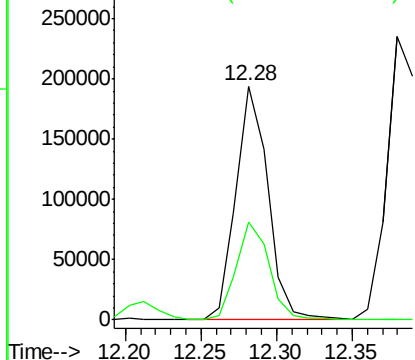


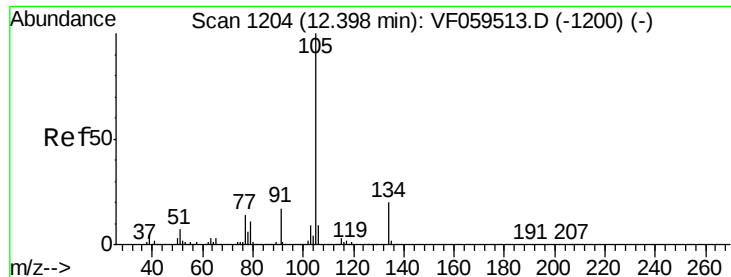
#84  
1,2,4-Trimethylbenzene  
Concen: 23.853 ug/l  
RT: 12.28 min Scan# 1192  
Delta R.T. -0.02 min  
Lab File: VF059590.D  
Acq: 20 Jul 2018 19:36

Tgt Ion:105 Resp: 286232  
Ion Ratio Lower Upper  
105 100  
120 42.1 22.5 67.5



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 25.689 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

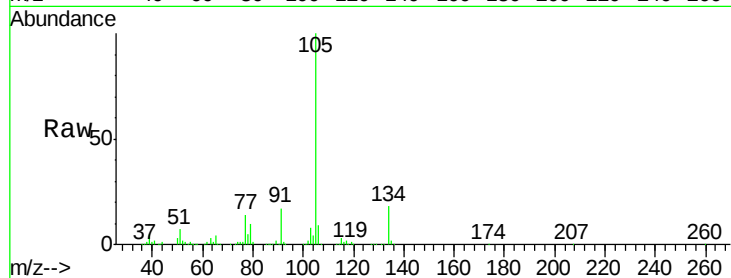
ClientSampleId :

Tot Ion:105 Resp: 365717

Ion Ratio Lower Upper

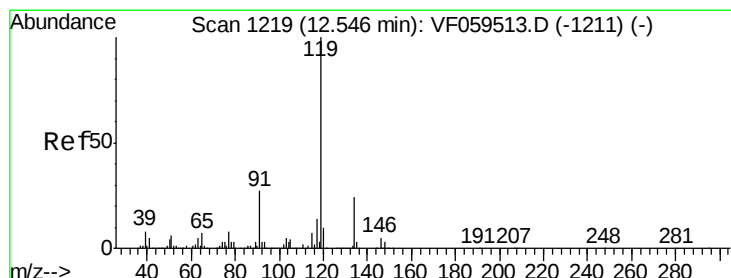
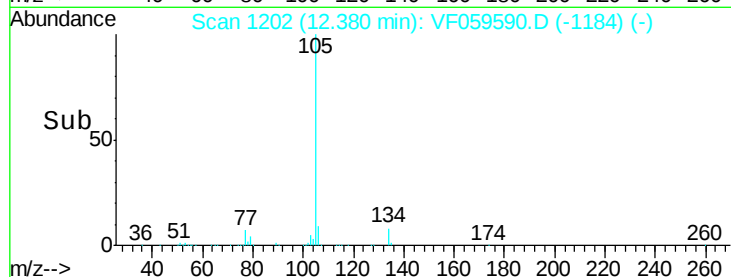
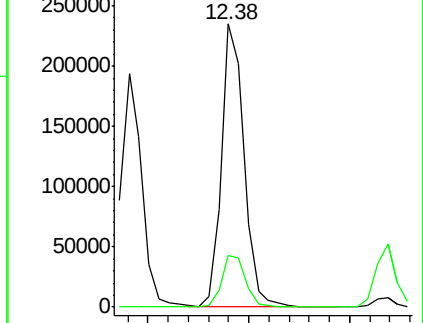
105 100

134 18.4 10.1 30.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 24.670 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

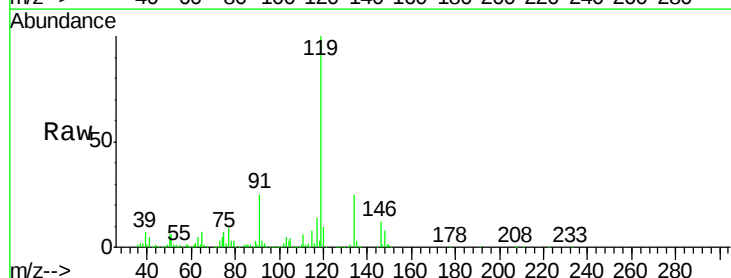
Tgt Ion:119 Resp: 305569

Ion Ratio Lower Upper

119 100

134 25.3 12.0 36.0

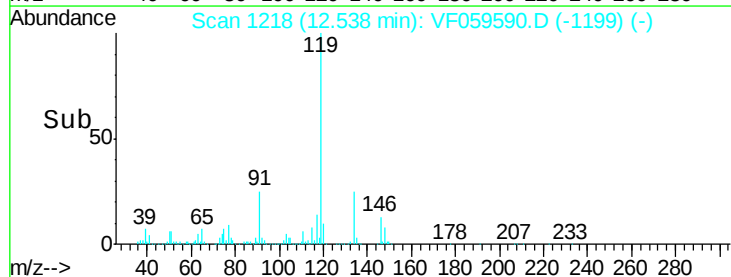
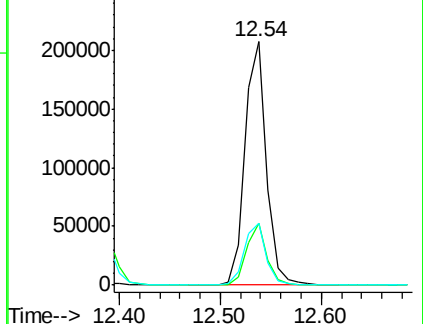
91 25.3 13.5 40.4

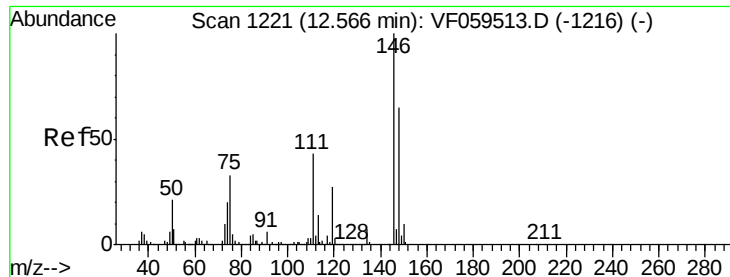


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

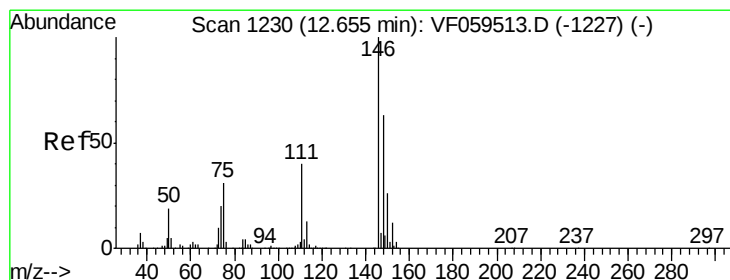
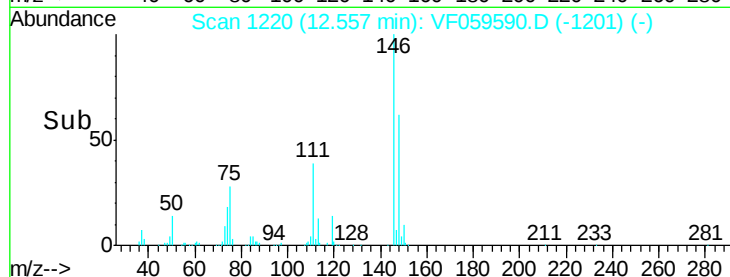
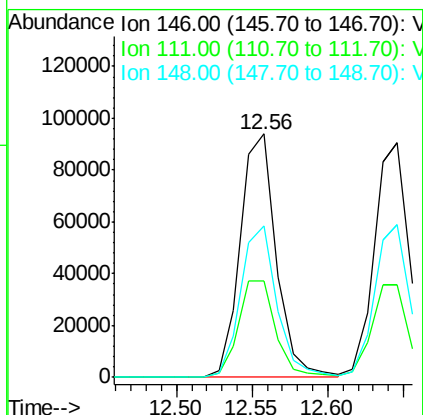
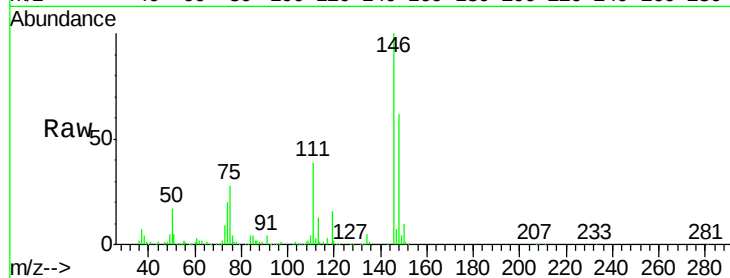




#87  
 1,3-Dichlorobenzene  
 Concen: 23.241 ug/l  
 RT: 12.56 min Scan# 1220  
 Delta R.T. -0.01 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

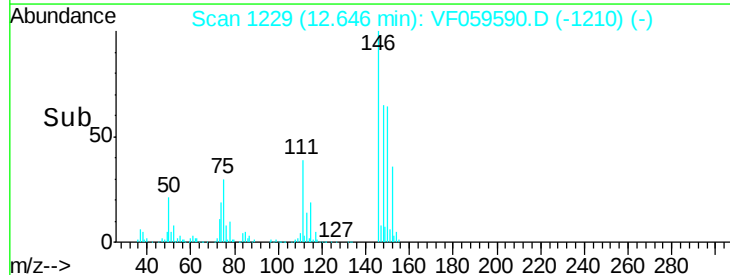
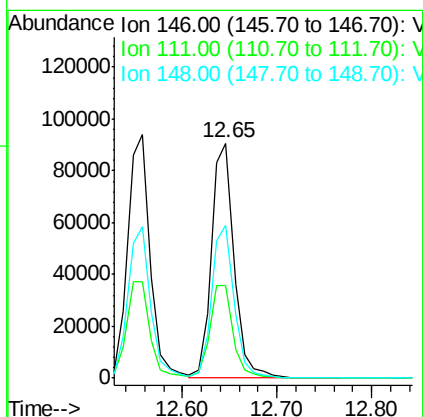
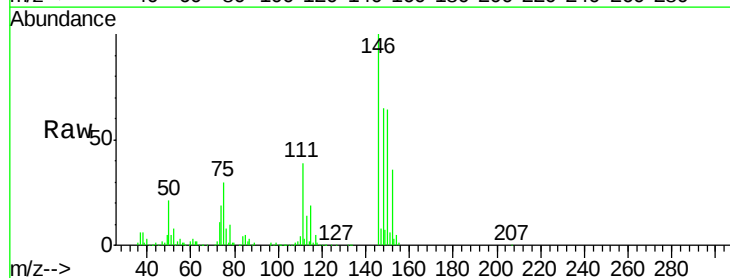
Instrument :  
 MSVOA\_F  
 ClientSampleId :

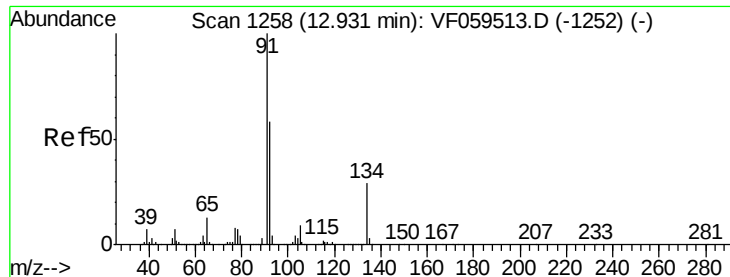
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.4  | 21.4  | 64.3  |
| 148     | 62.0  | 32.7  | 98.1  |



#88  
 1,4-Dichlorobenzene  
 Concen: 22.884 ug/l  
 RT: 12.65 min Scan# 1229  
 Delta R.T. -0.01 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.5  | 20.0  | 59.9  |
| 148     | 65.0  | 31.5  | 94.5  |





#89

n-Butylbenzene

Concen: 26.655 ug/l

RT: 12.91 min Scan# 1256

Delta R.T. -0.02 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

ClientSampled :

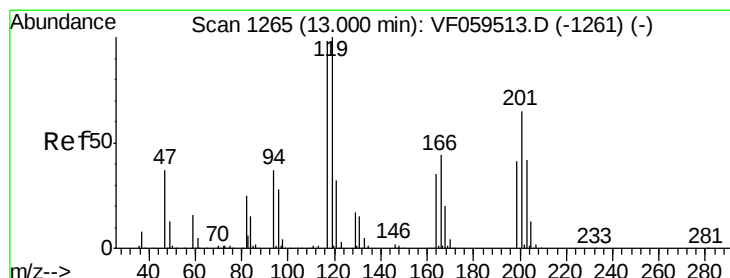
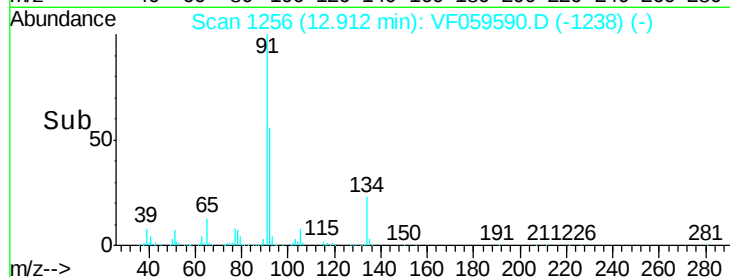
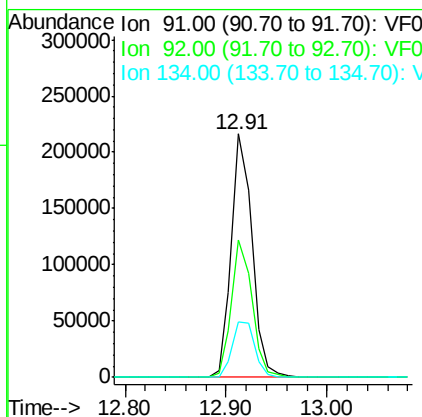
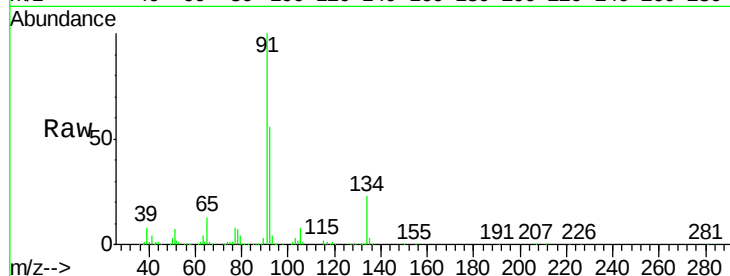
Tot Ion: 91 Resp: 308994

Ion Ratio Lower Upper

91 100

92 56.3 29.1 87.3

134 22.5 14.3 42.9



#90

Hexachloroethane

Concen: 26.993 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VF059590.D

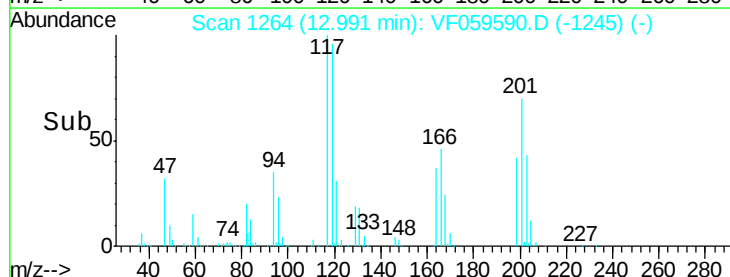
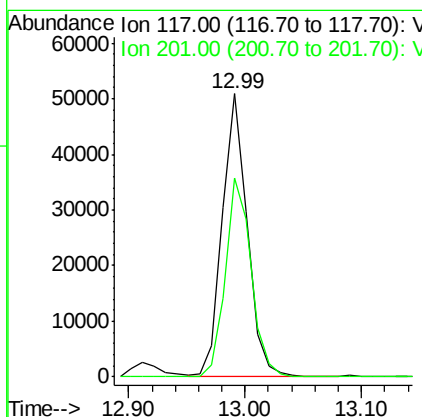
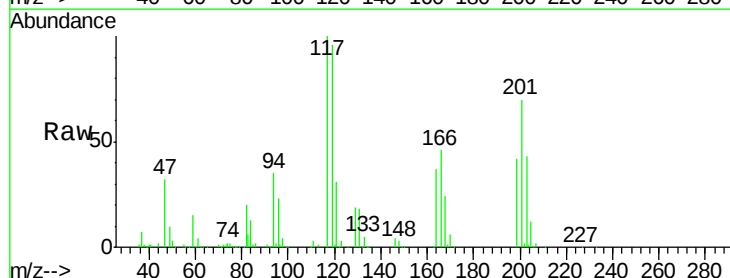
Acq: 20 Jul 2018 19:36

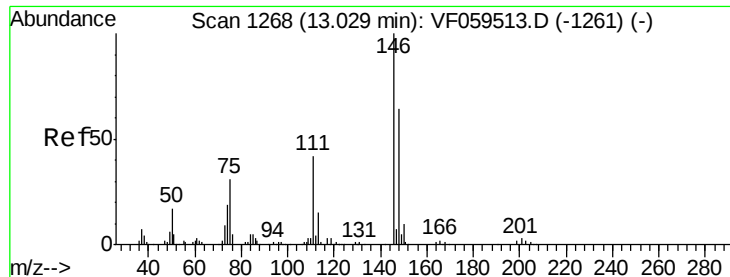
Tgt Ion: 117 Resp: 75948

Ion Ratio Lower Upper

117 100

201 72.2 32.6 98.0

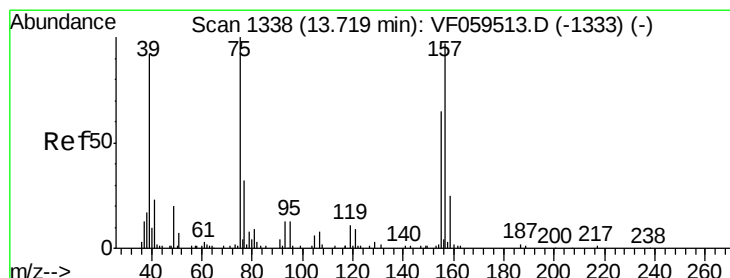
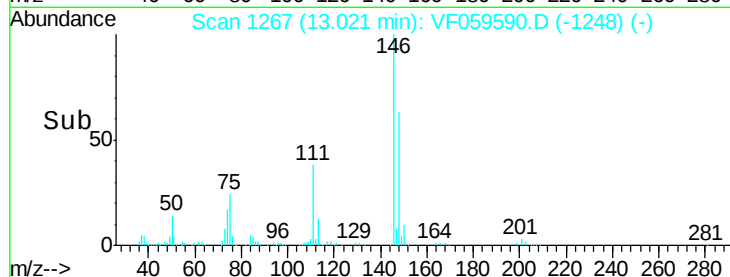
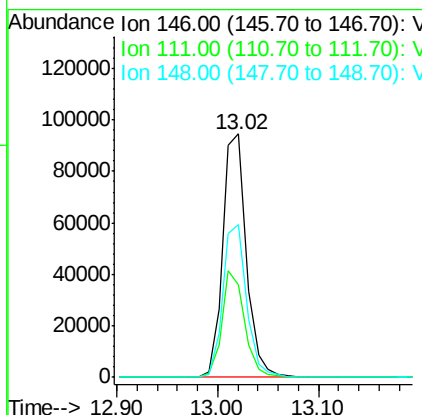
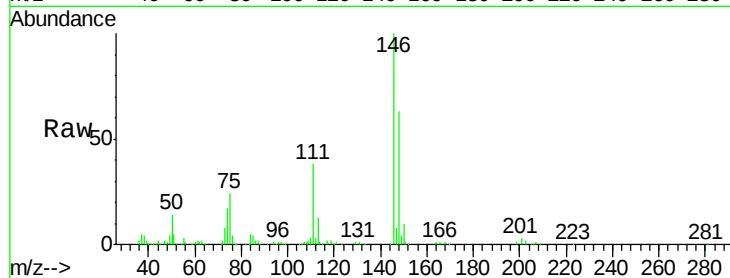




#91  
 1,2-Dichlorobenzene  
 Concen: 24.216 ug/l  
 RT: 13.02 min Scan# 1267  
 Delta R.T. -0.01 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

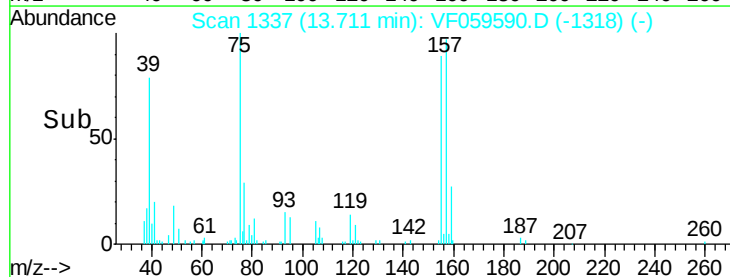
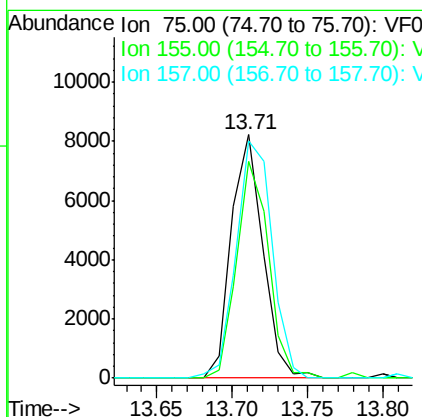
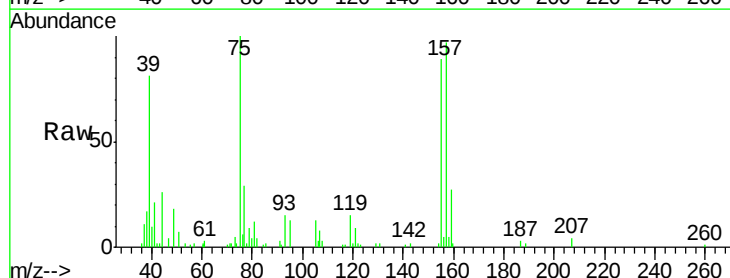
Instrument :  
 MSVOA\_F  
 ClientSampleId :

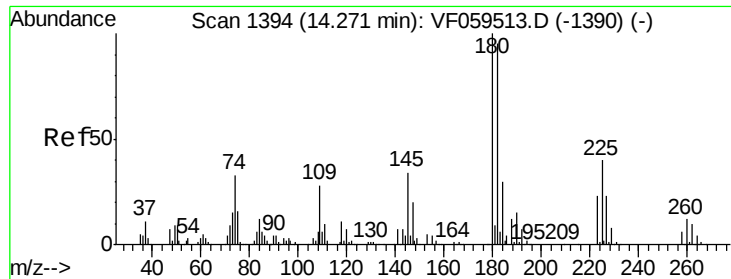
Tot Ion:146 Resp: 155020  
 Ion Ratio Lower Upper  
 146 100  
 111 38.0 21.1 63.1  
 148 62.8 32.3 96.8



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 17.293 ug/l  
 RT: 13.71 min Scan# 1337  
 Delta R.T. -0.01 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

Tgt Ion: 75 Resp: 11894  
 Ion Ratio Lower Upper  
 75 100  
 155 89.0 32.8 98.3  
 157 97.4 48.5 145.5

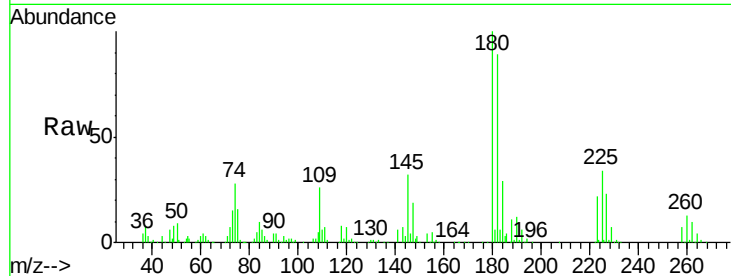




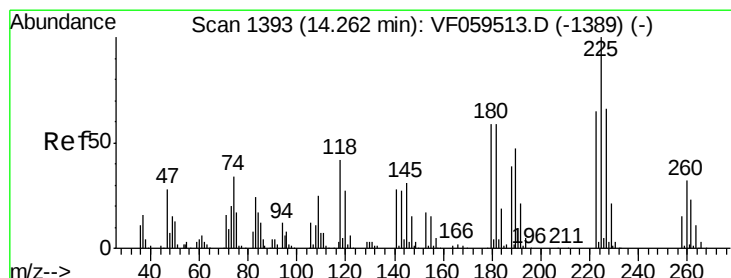
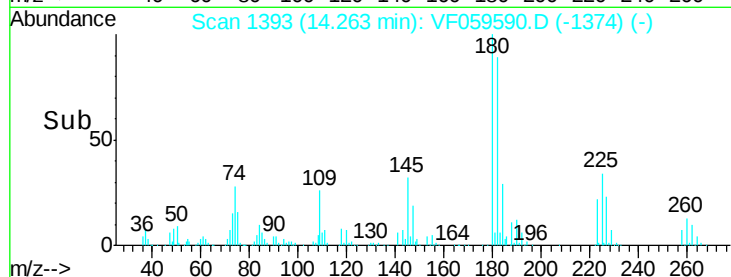
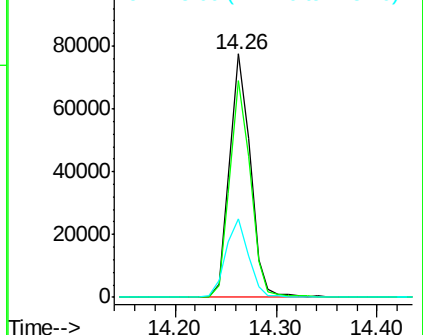
#93  
 1,2,4-Trichlorobenzene  
 Concen: 28.698 ug/l  
 RT: 14.26 min Scan# 1393  
 Delta R.T. -0.01 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Tot Ion:180 Resp: 111627  
 Ion Ratio Lower Upper  
 180 100  
 182 89.1 47.5 142.5  
 145 32.1 17.3 51.7

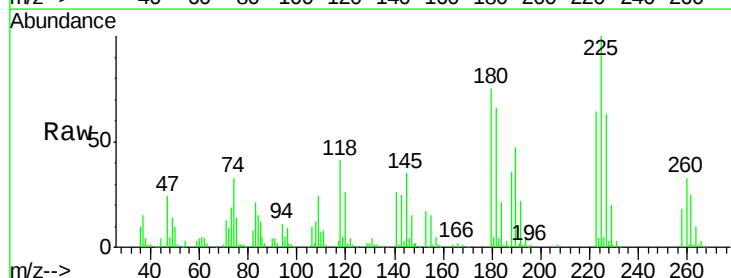


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

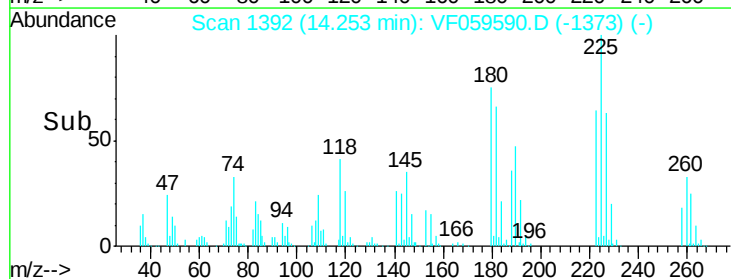
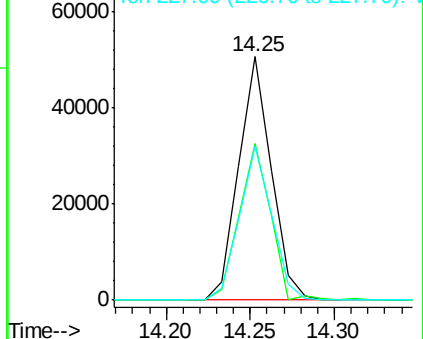


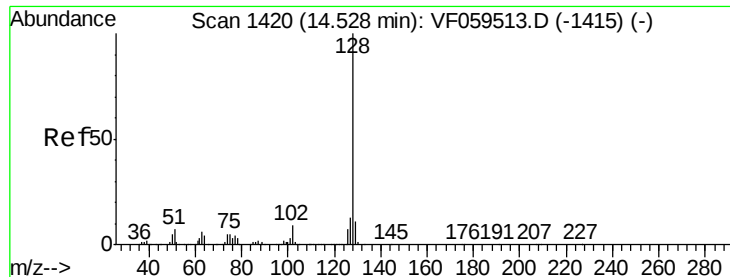
#94  
 Hexachlorobutadiene  
 Concen: 34.080 ug/l  
 RT: 14.25 min Scan# 1392  
 Delta R.T. -0.01 min  
 Lab File: VF059590.D  
 Acq: 20 Jul 2018 19:36

Tgt Ion:225 Resp: 67909  
 Ion Ratio Lower Upper  
 225 100  
 223 64.2 32.3 96.8  
 227 63.2 33.2 99.6



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: 22.172 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.01 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

Instrument :

MSVOA\_F

ClientSampleId :

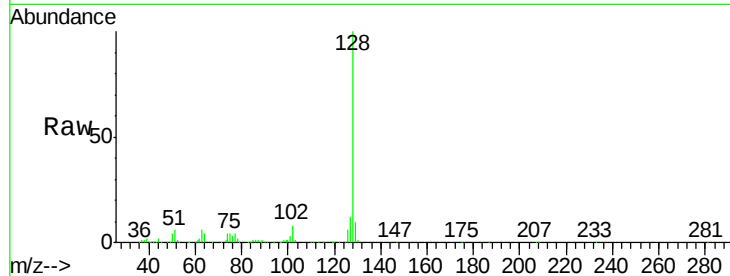
Tot Ion:128 Resp: 179166

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.2

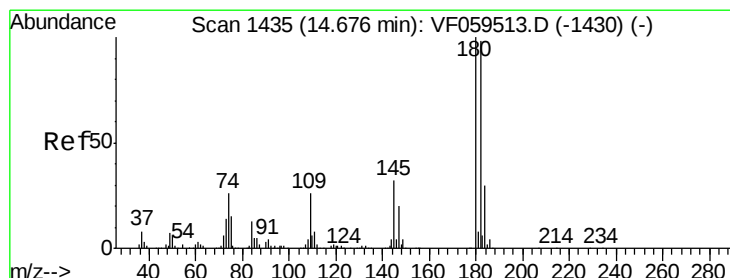
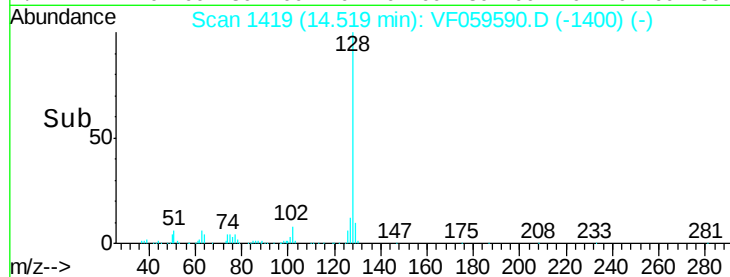
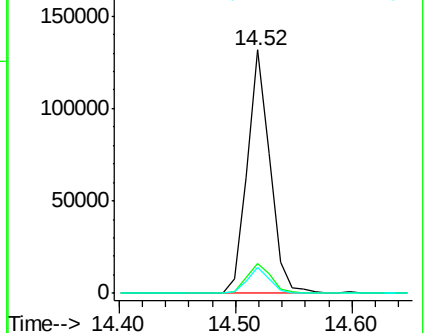
129 10.4 9.0 13.4



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: 28.197 ug/l

RT: 14.67 min Scan# 1434

Delta R.T. -0.01 min

Lab File: VF059590.D

Acq: 20 Jul 2018 19:36

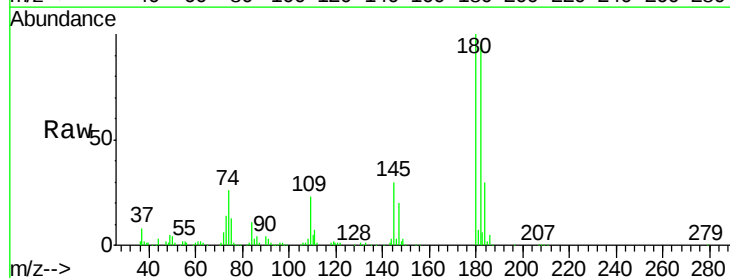
Tgt Ion:180 Resp: 99098

Ion Ratio Lower Upper

180 100

182 95.2 48.8 146.4

145 30.4 16.2 48.6



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

