

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031119\  
 Data File : VF061886.D  
 Acq On : 11 Mar 2019 13:36  
 Operator : VA/AP  
 Sample : VF0311SBSD01  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0311SBSD01

Quant Time: Mar 12 05:10:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 05 04:50:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.87  | 168  | 286305   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 419997   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.77  | 117  | 367893   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 198682   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.84  | 65   | 111556   | 53.50 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 107.00% |          |
| 35) Dibromofluoromethane    | 4.11  | 113  | 152374   | 51.99 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 103.98% |          |
| 50) Toluene-d8              | 7.55  | 98   | 408638   | 46.91 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 93.82%  |          |
| 62) 4-Bromofluorobenzene    | 11.41 | 95   | 169564   | 49.69 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 99.38%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.96 | 85   | 89333    | 25.415  | ug/l   | 90     |
| 3) Chloromethane              | 1.10 | 50   | 80180    | 23.537  | ug/l   | 96     |
| 4) Vinyl Chloride             | 1.14 | 62   | 80016    | 24.744  | ug/l   | 94     |
| 5) Bromomethane               | 1.33 | 94   | 51345    | 23.298  | ug/l   | 96     |
| 6) Chloroethane               | 1.40 | 64   | 36819    | 23.952  | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 1.50 | 101  | 73986    | 18.733  | ug/l   | 98     |
| 8) Diethyl Ether              | 1.62 | 74   | 22298    | 24.827  | ug/l   | 93     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.84 | 101  | 65243    | 24.326  | ug/l   | 97     |
| 10) Methyl Iodide             | 1.91 | 142  | 94878    | 18.589  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 2.57 | 59   | 14451    | 122.111 | ug/l # | 86     |
| 12) 1,1-Dichloroethene        | 1.79 | 96   | 57777    | 23.596  | ug/l   | 95     |
| 13) Acrolein                  | 2.00 | 56   | 14800    | 98.697  | ug/l   | 97     |
| 14) Allyl chloride            | 2.09 | 41   | 73682    | 27.314  | ug/l   | 91     |
| 15) Acrylonitrile             | 2.94 | 53   | 44311    | 117.587 | ug/l   | 100    |
| 16) Acetone                   | 2.24 | 43   | 58701    | 134.405 | ug/l   | 93     |
| 17) Carbon Disulfide          | 1.81 | 76   | 176664   | 23.178  | ug/l   | 100    |
| 18) Methyl Acetate            | 2.34 | 43   | 26450    | 31.551  | ug/l   | 94     |
| 19) Methyl tert-butyl Ether   | 2.42 | 73   | 99954    | 24.131  | ug/l   | 97     |
| 20) Methylene Chloride        | 2.18 | 84   | 25372    | 5.803   | ug/l   | 89     |
| 21) trans-1,2-Dichloroethene  | 2.30 | 96   | 59102    | 25.646  | ug/l   | 88     |
| 22) Diisopropyl ether         | 2.80 | 45   | 166706   | 23.757  | ug/l   | 95     |
| 23) Vinyl Acetate             | 3.18 | 43   | 369632   | 117.915 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 2.87 | 63   | 105260   | 25.097  | ug/l   | 99     |
| 25) 2-Butanone                | 4.33 | 43   | 103891   | 116.944 | ug/l # | 86     |
| 26) 2,2-Dichloropropane       | 3.60 | 77   | 47969    | 25.620  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 3.47 | 96   | 75595    | 23.677  | ug/l   | 97     |
| 28) Bromochloromethane        | 3.71 | 49   | 42587    | 23.294  | ug/l # | 98     |
| 29) Tetrahydrofuran           | 4.07 | 42   | 45007    | 117.471 | ug/l   | 97     |
| 30) Chloroform                | 3.85 | 83   | 114104   | 23.818  | ug/l   | 97     |
| 31) Cyclohexane               | 3.68 | 56   | 62524    | 14.233  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 4.08 | 97   | 69403    | 23.504  | ug/l   | 95     |
| 36) 1,1-Dichloropropene       | 4.28 | 75   | 94410    | 23.797  | ug/l   | 96     |
| 37) Ethyl Acetate             | 4.11 | 43   | 40058    | 24.056  | ug/l   | 90     |
| 38) Carbon Tetrachloride      | 3.98 | 117  | 71982    | 25.630  | ug/l   | 95     |

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 Sample : VF0311SBSD01  
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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0311SBSD01

Quant Time: Mar 12 05:10:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 05 04:50:44 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.44  | 83   | 107036   | 22.842  | ug/l   | 99       |
| 40) Benzene                    | 4.62  | 78   | 239371   | 23.083  | ug/l   | 98       |
| 41) Methacrylonitrile          | 4.74  | 41   | 20233    | 22.177  | ug/l   | 92       |
| 42) 1,2-Dichloroethane         | 4.94  | 62   | 62334    | 24.120  | ug/l   | 91       |
| 43) Isopropyl Acetate          | 6.95  | 43   | 45014    | 21.930  | ug/l   | 93       |
| 44) Trichloroethene            | 5.50  | 130  | 77323    | 23.993  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 6.23  | 63   | 55479    | 22.498  | ug/l   | 96       |
| 46) Dibromomethane             | 6.08  | 93   | 36220    | 23.338  | ug/l   | 97       |
| 47) Bromodichloromethane       | 6.38  | 83   | 79309    | 23.131  | ug/l   | 98       |
| 48) Methyl methacrylate        | 6.71  | 41   | 29887    | 23.006  | ug/l   | 93       |
| 49) 1,4-Dioxane                | 6.71  | 88   | 4926     | 414.802 | ug/l # | 72       |
| 51) 4-Methyl-2-Pentanone       | 8.25  | 43   | 163900   | 115.530 | ug/l   | 95       |
| 52) Toluene                    | 7.62  | 92   | 140219   | 22.857  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 8.27  | 75   | 62140    | 21.956  | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene    | 7.29  | 75   | 88884    | 22.769  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 8.49  | 97   | 39942    | 22.597  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 8.62  | 69   | 45166    | 22.673  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 8.84  | 76   | 67965    | 23.512  | ug/l   | 91       |
| 58) 2-Chloroethyl Vinyl ether  | 7.28  | 63   | 36464    | 115.713 | ug/l   | 89       |
| 59) 2-Hexanone                 | 9.48  | 43   | 118269   | 115.559 | ug/l   | 94       |
| 60) Dibromochloromethane       | 8.70  | 129  | 58372    | 23.170  | ug/l   | 95       |
| 61) 1,2-Dibromoethane          | 8.98  | 107  | 42446    | 21.837  | ug/l   | 100      |
| 64) Tetrachloroethene          | 8.14  | 164  | 68531    | 24.243  | ug/l   | 94       |
| 65) Chlorobenzene              | 9.79  | 112  | 156871   | 22.194  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.93  | 131  | 65908    | 24.067  | ug/l   | 96       |
| 67) Ethyl Benzene              | 9.90  | 91   | 272542   | 23.264  | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.12 | 106  | 197737   | 44.060  | ug/l   | 92       |
| 69) o-Xylene                   | 10.71 | 106  | 112246   | 23.227  | ug/l   | 95       |
| 70) Styrene                    | 10.78 | 104  | 152591   | 22.437  | ug/l   | 99       |
| 71) Bromoform                  | 10.76 | 173  | 32651    | 22.560  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.12 | 105  | 330143   | 24.136  | ug/l   | 98       |
| 74) N-amyl acetate             | 11.37 | 43   | 75367    | 23.934  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.69 | 83   | 53509    | 23.537  | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane     | 11.79 | 75   | 35834    | 23.095  | ug/l   | 95       |
| 77) Bromobenzene               | 11.48 | 156  | 73126    | 22.214  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.58 | 91   | 366384   | 23.719  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 11.71 | 91   | 206434   | 23.376  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 11.82 | 105  | 259291   | 23.611  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 11.86 | 75   | 21040    | 29.655  | ug/l   | 85       |
| 82) 4-Chlorotoluene            | 11.89 | 91   | 211120   | 23.372  | ug/l   | 97       |
| 83) tert-Butylbenzene          | 12.13 | 119  | 278227   | 23.859  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene     | 12.19 | 105  | 248649   | 23.097  | ug/l   | 95       |
| 85) sec-Butylbenzene           | 12.30 | 105  | 372110   | 24.521  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 12.45 | 119  | 302696   | 23.467  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.47 | 146  | 144845   | 23.173  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.56 | 146  | 137464   | 22.798  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.84 | 91   | 302807   | 24.564  | ug/l   | 95       |
| 90) Hexachloroethane           | 12.91 | 117  | 72621    | 23.390  | ug/l   | 82       |
| 91) 1,2-Dichlorobenzene        | 12.93 | 146  | 142509   | 24.064  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.63 | 75   | 8909     | 24.635  | ug/l   | 71       |

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Acq On : 11 Mar 2019 13:36  
Operator : VA/AP  
Sample : VF0311SBSD01  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 5 Sample Multiplier: 1

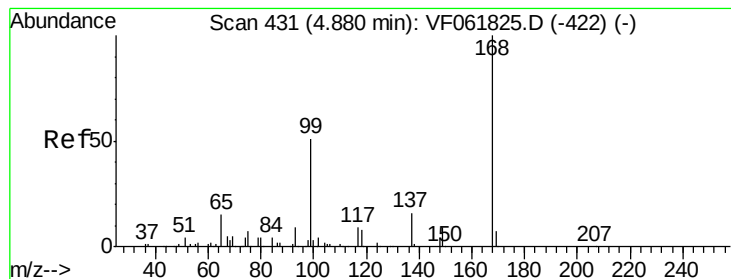
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBSD01

Quant Time: Mar 12 05:10:35 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 05 04:50:44 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.20 | 180  | 97080    | 23.383 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.19 | 225  | 63055    | 21.938 | ug/l  | 95       |
| 95) Naphthalene            | 14.45 | 128  | 166226   | 22.479 | ug/l  | 97       |
| 96) 1,2,3-Trichlorobenzene | 14.60 | 180  | 88699    | 23.138 | ug/l  | 94       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

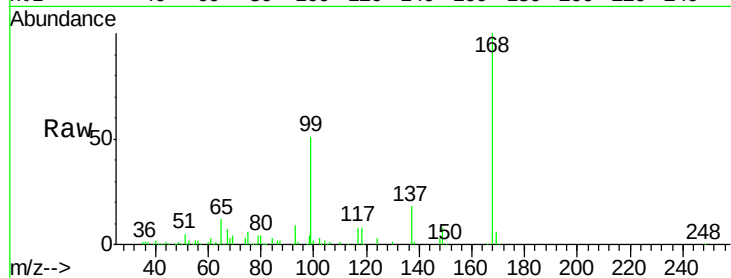
VF0311SBSD01

Tot Ion:168 Resp: 286305

Ion Ratio Lower Upper

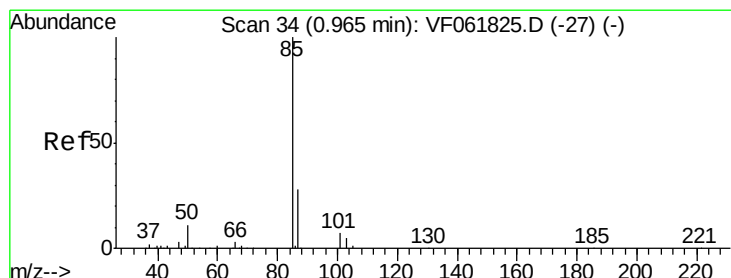
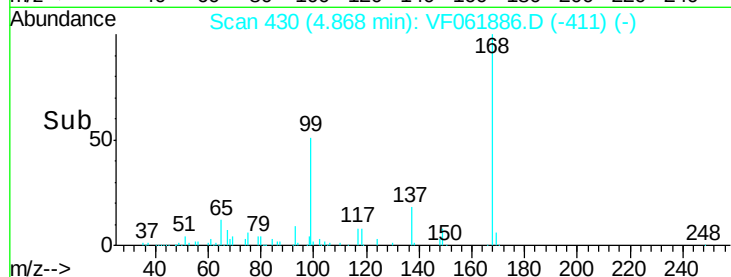
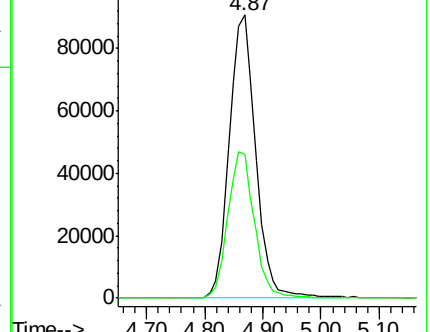
168 100

99 50.9 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 25.415 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061886.D

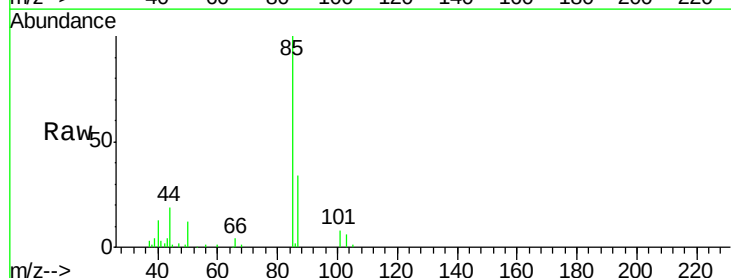
Acq: 11 Mar 2019 13:36

Tgt Ion: 85 Resp: 89333

Ion Ratio Lower Upper

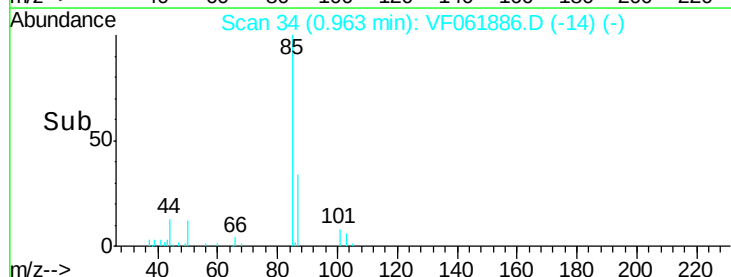
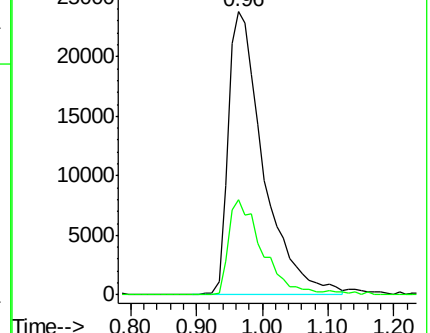
85 100

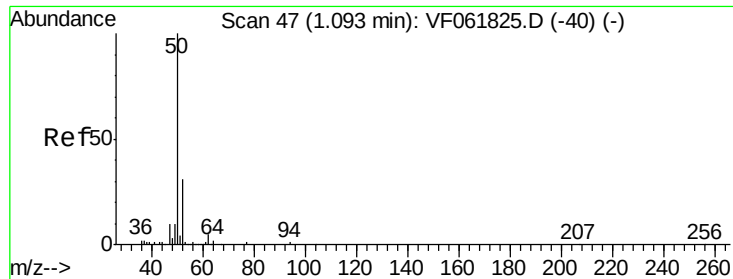
87 33.5 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 23.537 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

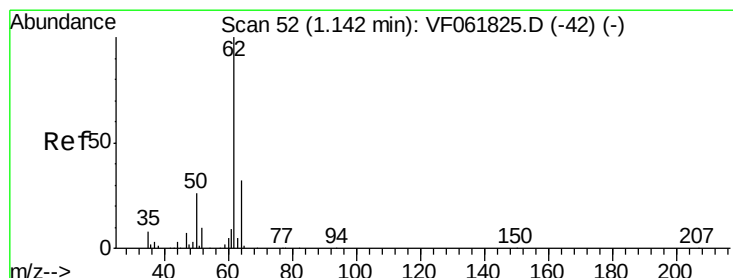
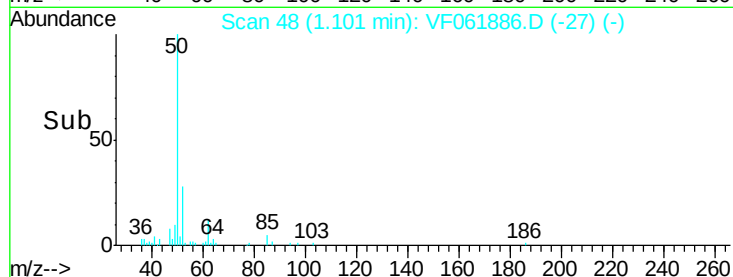
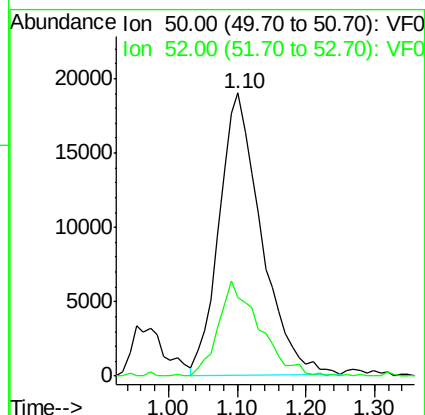
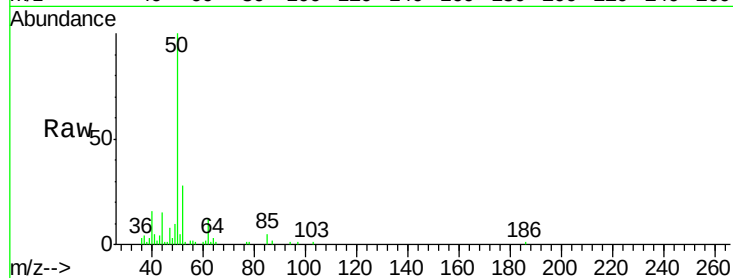
VF0311SBS01

Tot Ion: 50 Resp: 80180

Ion Ratio Lower Upper

50 100

52 27.7 23.8 35.8



#4

Vinyl Chloride

Concen: 24.744 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061886.D

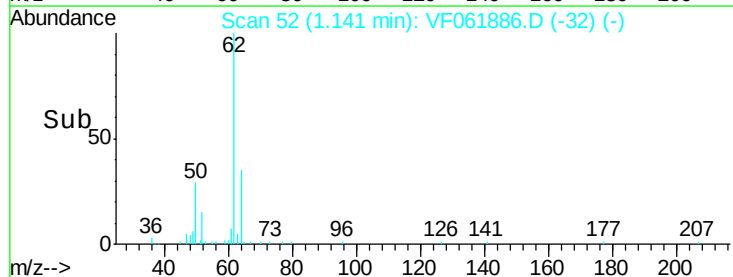
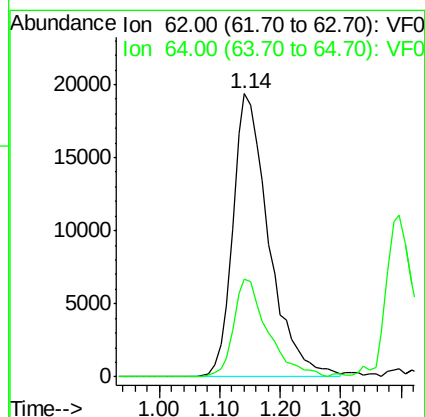
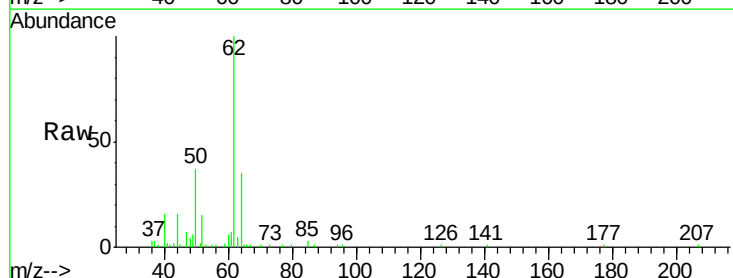
Acq: 11 Mar 2019 13:36

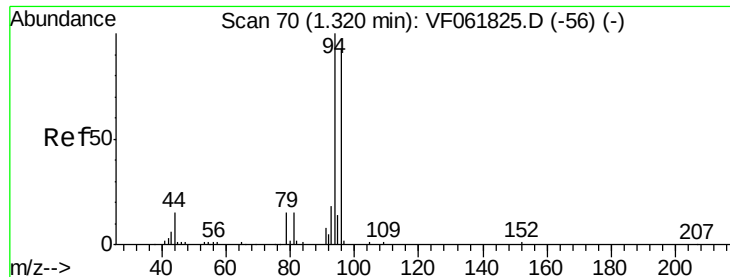
Tgt Ion: 62 Resp: 80016

Ion Ratio Lower Upper

62 100

64 34.7 25.2 37.8





#5

Bromomethane

Concen: 23.298 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

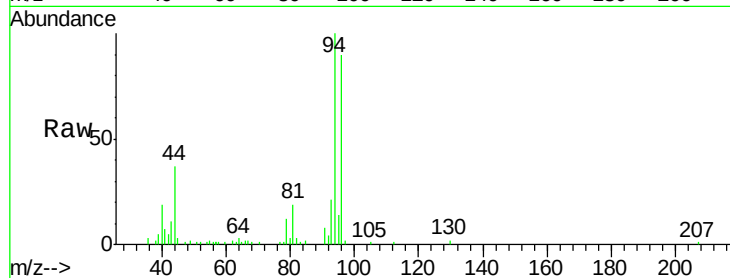
VF0311SBSD01

Tot Ion: 94 Resp: 51345

Ion Ratio Lower Upper

94 100

96 90.3 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.33

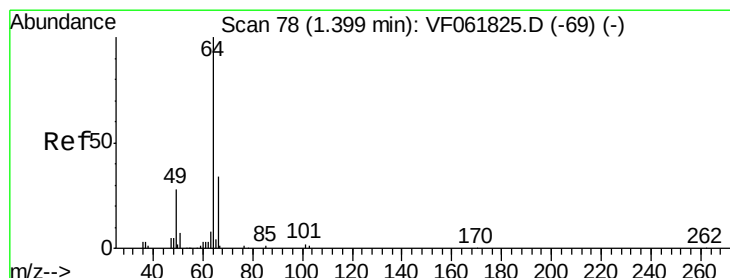
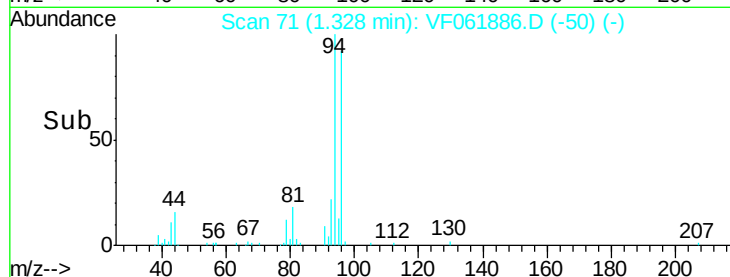
10000

5000

0

Time-->

1.20 1.30 1.40 1.50



#6

Chloroethane

Concen: 23.952 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.00 min

Lab File: VF061886.D

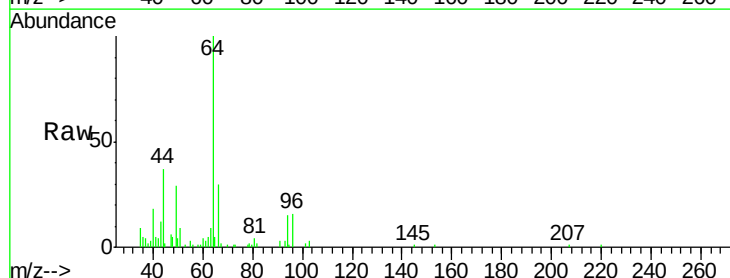
Acq: 11 Mar 2019 13:36

Tgt Ion: 64 Resp: 36819

Ion Ratio Lower Upper

64 100

66 29.7 27.0 40.4



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.40

12000

10000

8000

6000

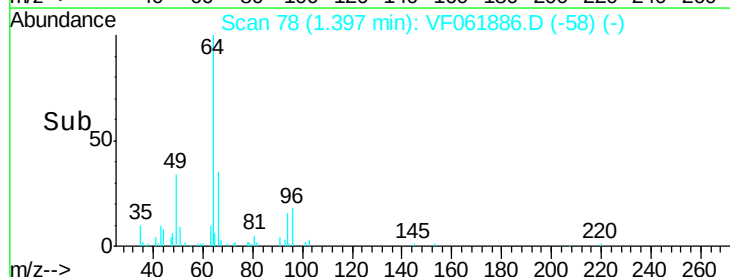
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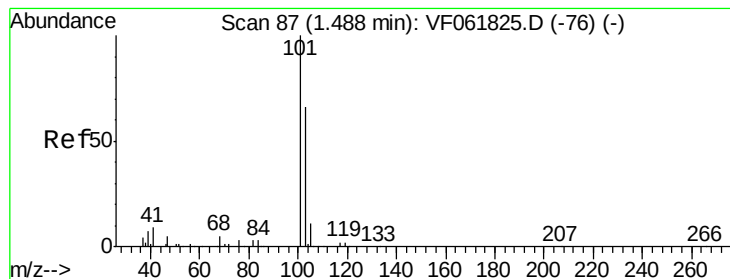
2000

0

Time-->

1.30 1.40 1.50 1.60





#7

Trichlorofluoromethane

Concen: 18.733 ug/l

RT: 1.50 min Scan# 88

Delta R.T. 0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

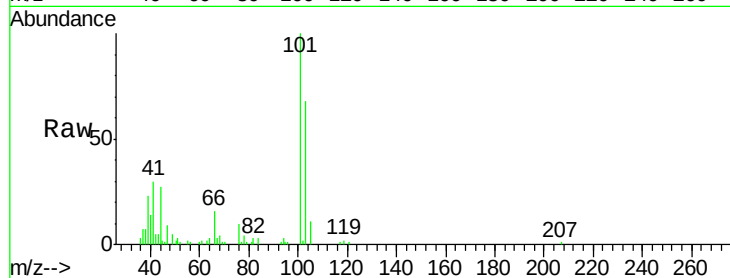
VF0311SBSD01

Tot Ion:101 Resp: 73986

Ion Ratio Lower Upper

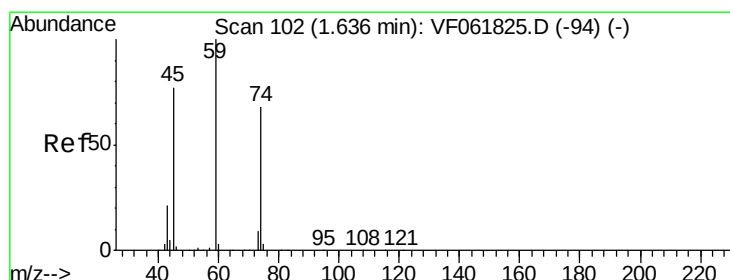
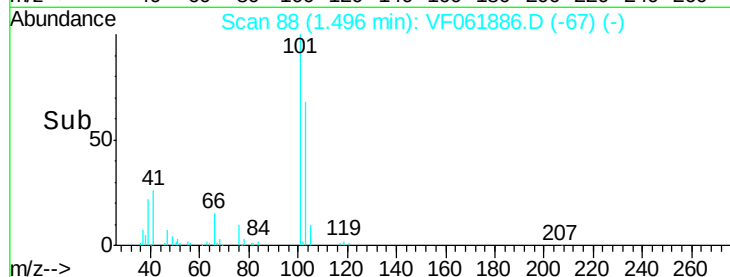
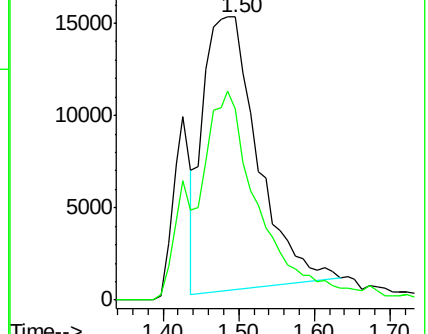
101 100

103 67.5 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 24.827 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061886.D

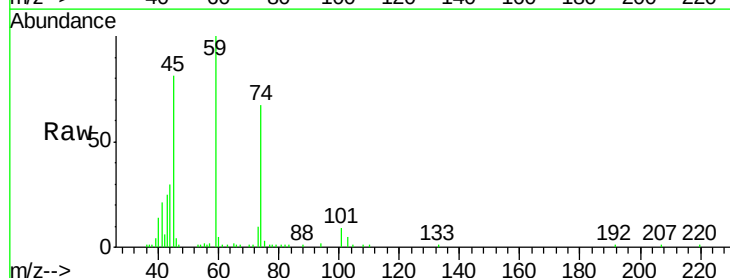
Acq: 11 Mar 2019 13:36

Tgt Ion: 74 Resp: 22298

Ion Ratio Lower Upper

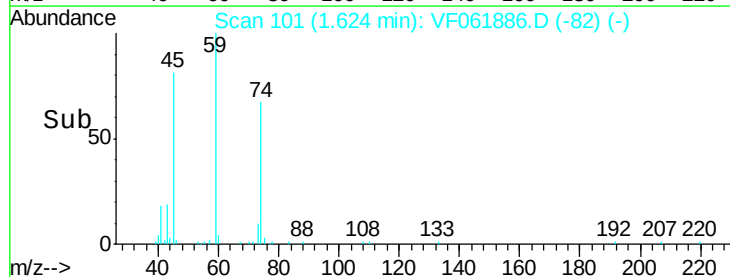
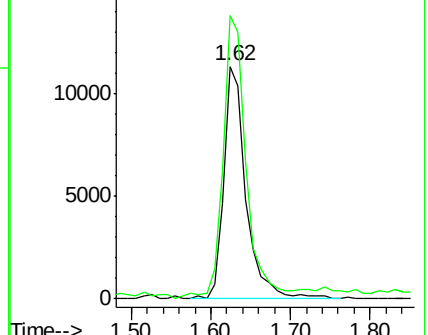
74 100

45 121.6 57.2 171.6

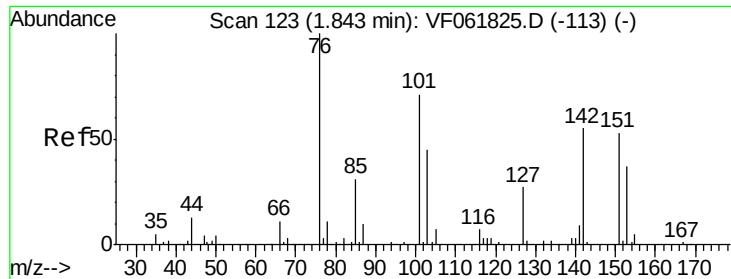


Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0







#9

1,1,2-Trichlorotrifluoroethane

Concen: 24.326 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.00 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

VF0311SBS01

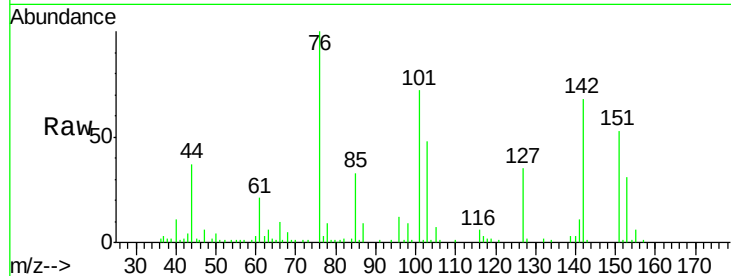
Tot Ion:101 Resp: 65243

Ion Ratio Lower Upper

101 100

85 45.7 34.0 51.0

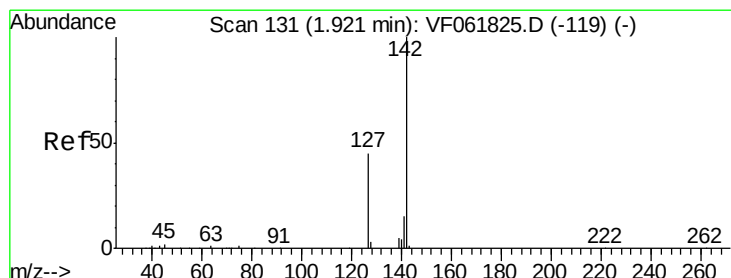
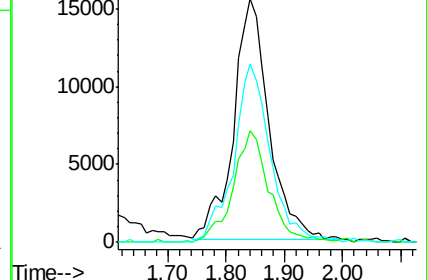
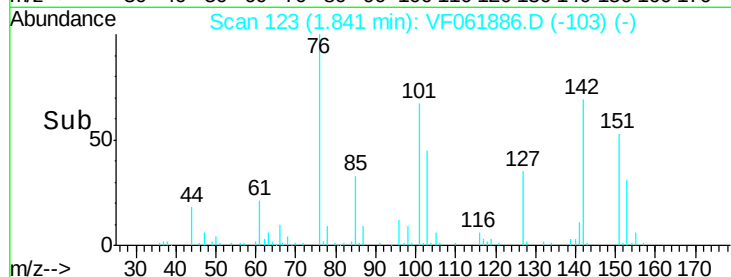
151 73.3 57.3 85.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 18.589 ug/l

RT: 1.91 min Scan# 130

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

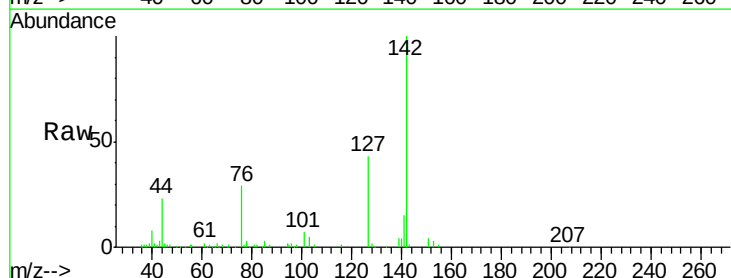
Tgt Ion:142 Resp: 94878

Ion Ratio Lower Upper

142 100

127 43.0 35.8 53.6

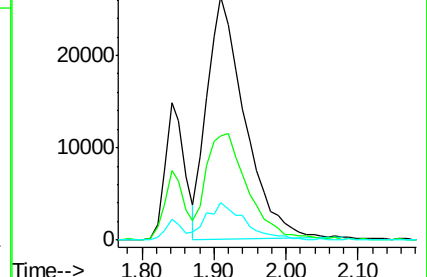
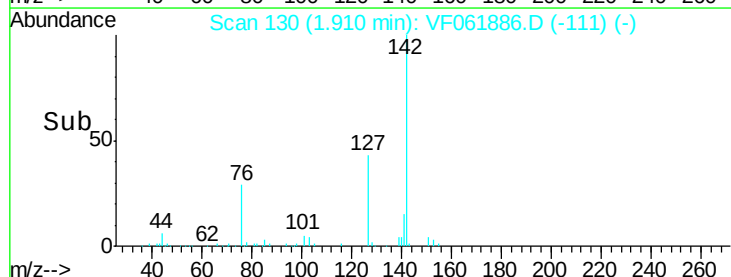
141 15.5 11.7 17.5

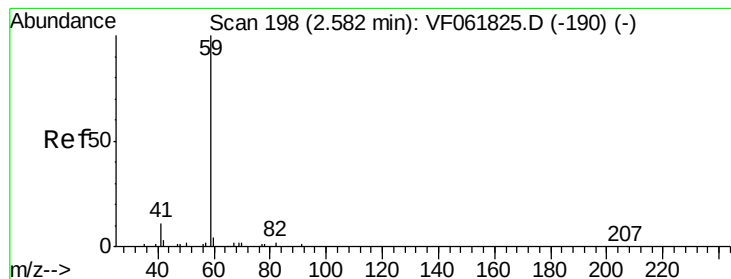


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



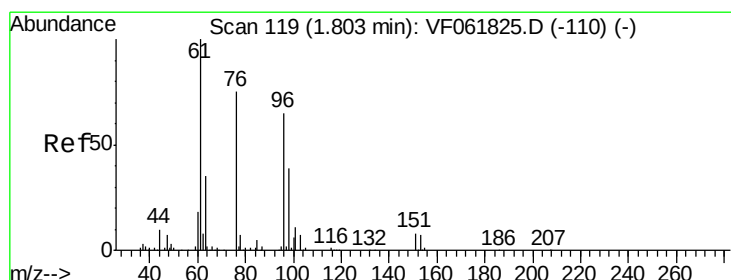
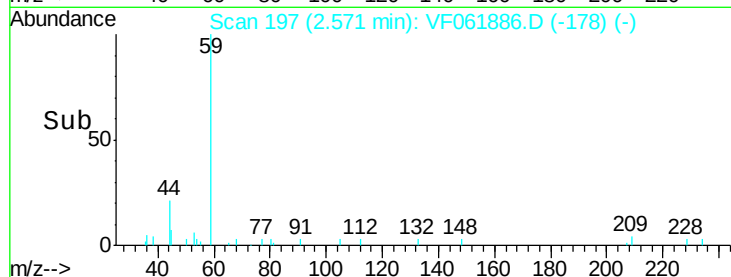
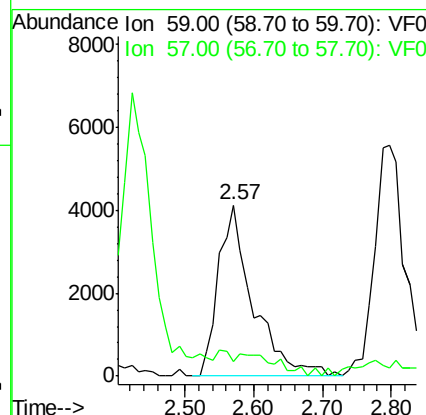
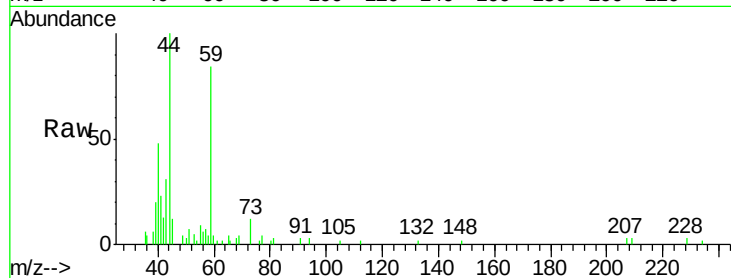


#11

Tert butyl alcohol  
 Concen: 122.111 ug/l  
 RT: 2.57 min Scan# 197  
 Delta R.T. -0.01 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0311SBS01

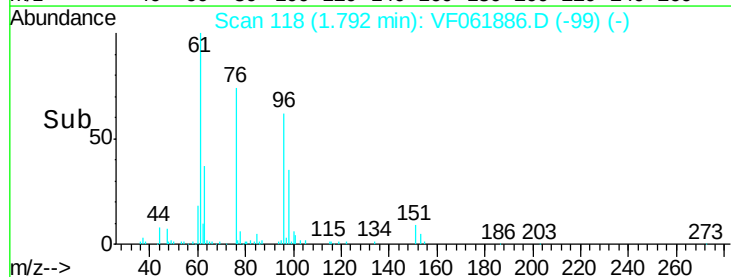
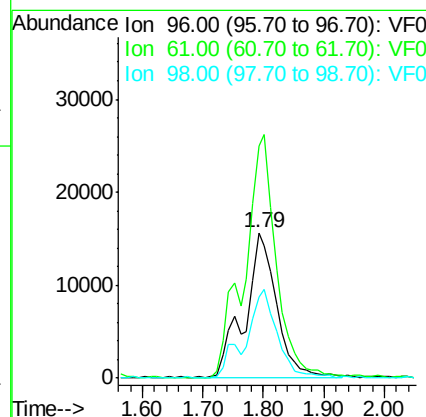
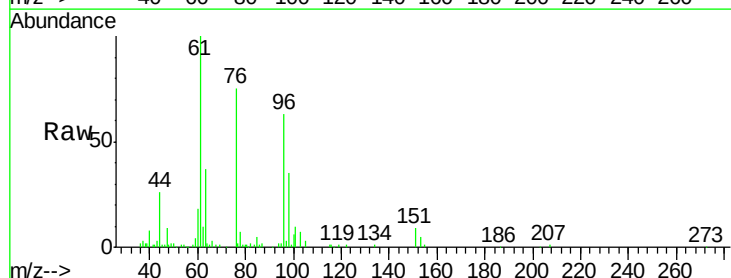
Tot Ion: 59 Resp: 14451  
 Ion Ratio Lower Upper  
 59 100  
 57 8.7 11.8 17.6#

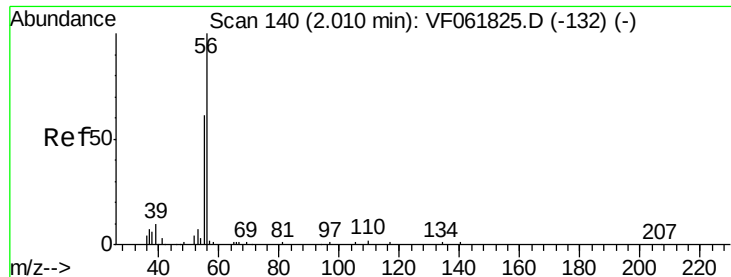


#12

1,1-Dichloroethene  
 Concen: 23.596 ug/l  
 RT: 1.79 min Scan# 118  
 Delta R.T. -0.01 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

Tgt Ion: 96 Resp: 57777  
 Ion Ratio Lower Upper  
 96 100  
 61 159.3 122.5 183.7  
 98 55.5 47.1 70.7

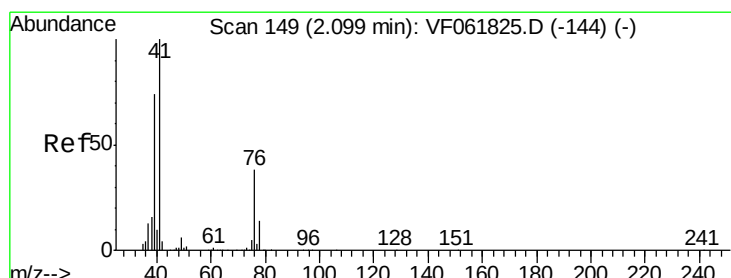
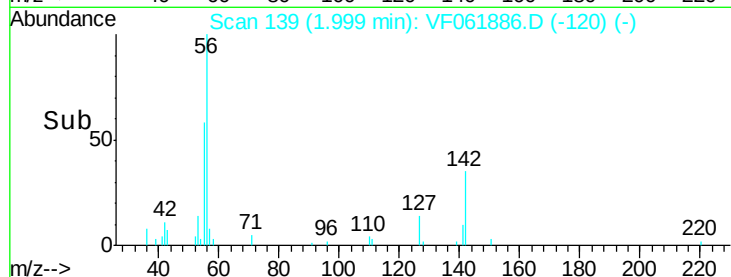
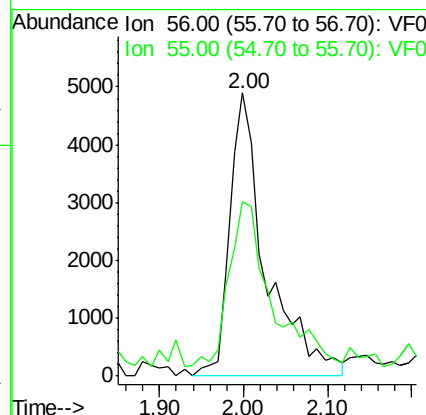
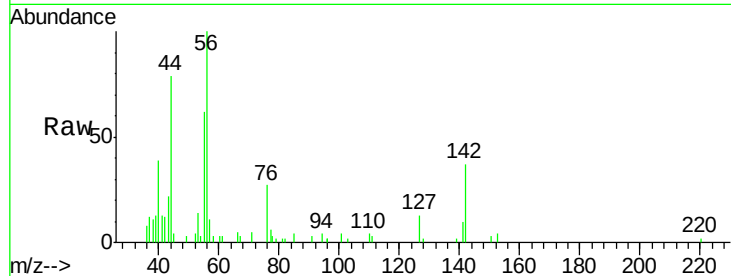




#13  
Acrolein  
Concen: 98.697 ug/l  
RT: 2.00 min Scan# 139  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

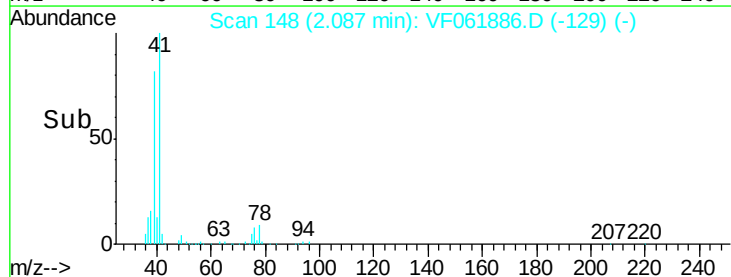
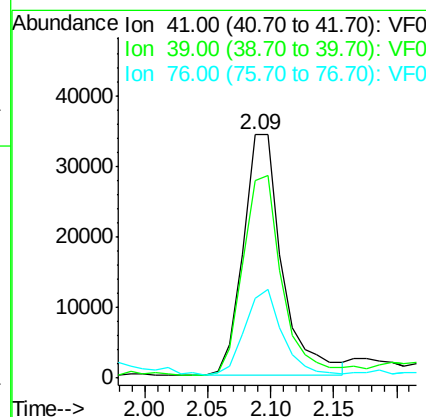
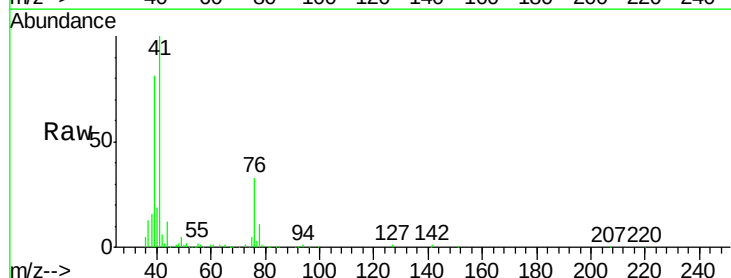
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBSD01

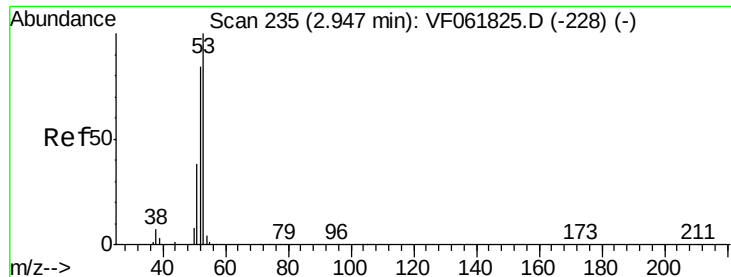
Tot Ion: 56 Resp: 14800  
Ion Ratio Lower Upper  
56 100  
55 61.7 51.3 76.9



#14  
Allyl chloride  
Concen: 27.314 ug/l  
RT: 2.09 min Scan# 148  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion: 41 Resp: 73682  
Ion Ratio Lower Upper  
41 100  
39 81.2 59.6 89.4  
76 32.7 32.3 48.5





#15

Acrylonitrile

Concen: 117.587 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

VF0311SBS01

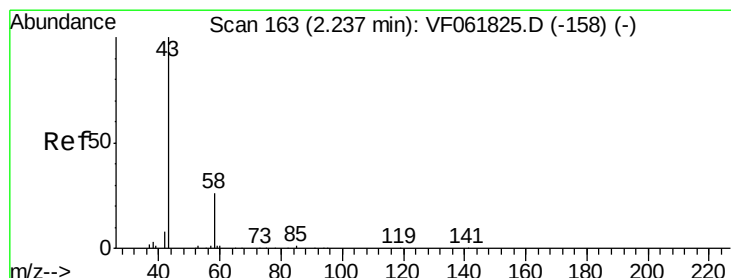
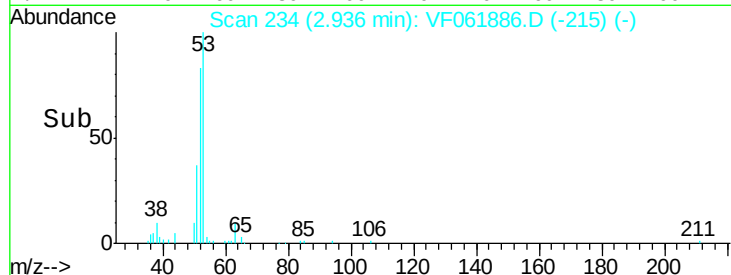
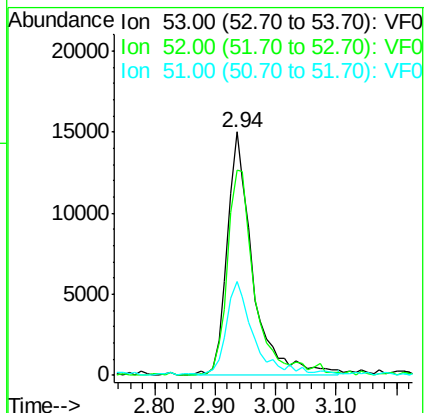
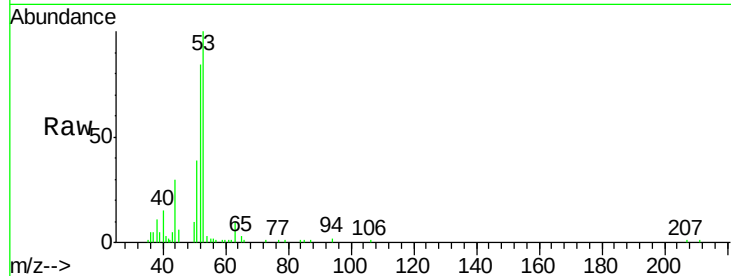
Tot Ion: 53 Resp: 44311

Ion Ratio Lower Upper

53 100

52 84.2 67.4 101.0

51 38.5 30.7 46.1



#16

Acetone

Concen: 134.405 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061886.D

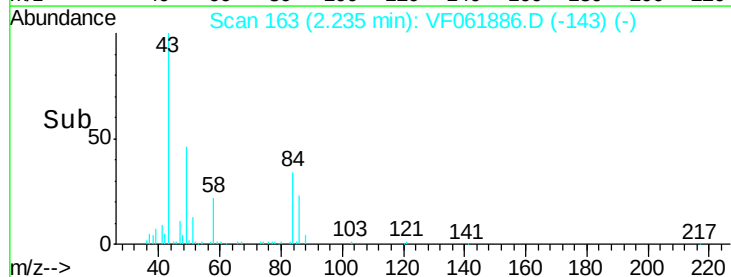
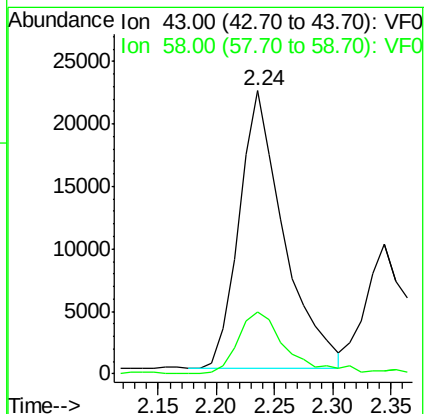
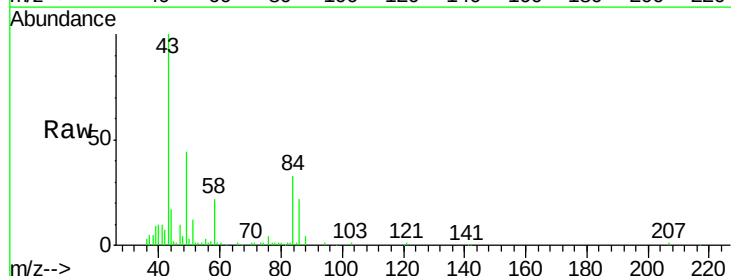
Acq: 11 Mar 2019 13:36

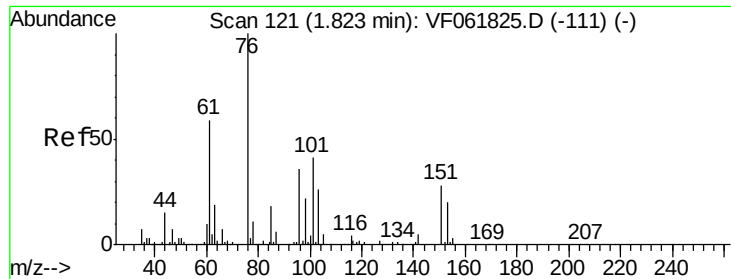
Tgt Ion: 43 Resp: 58701

Ion Ratio Lower Upper

43 100

58 22.1 20.3 30.5





#17

Carbon Disulfide

Concen: 23.178 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

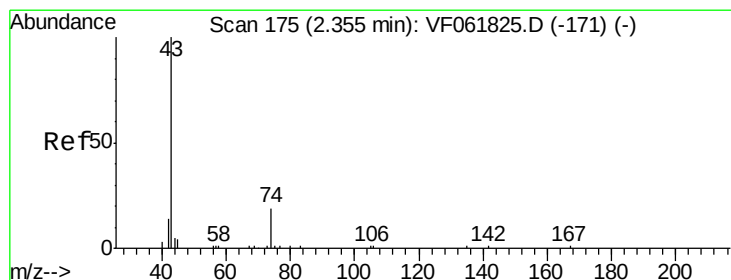
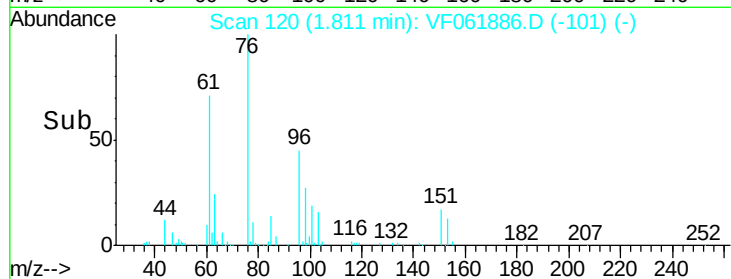
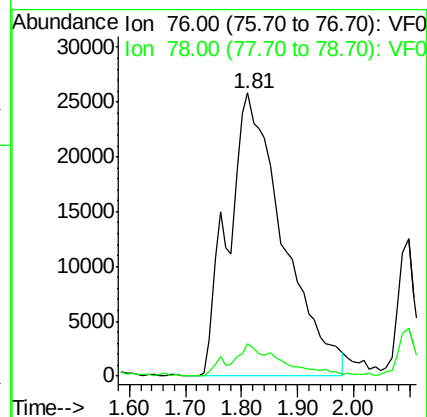
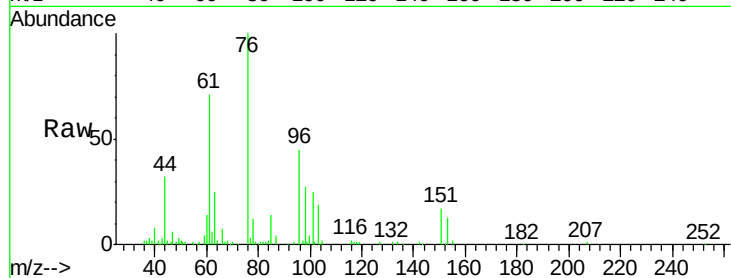
VF0311SBS01

Tot Ion: 76 Resp: 176664

Ion Ratio Lower Upper

76 100

78 11.6 9.1 13.7



#18

Methyl Acetate

Concen: 31.551 ug/l

RT: 2.34 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF061886.D

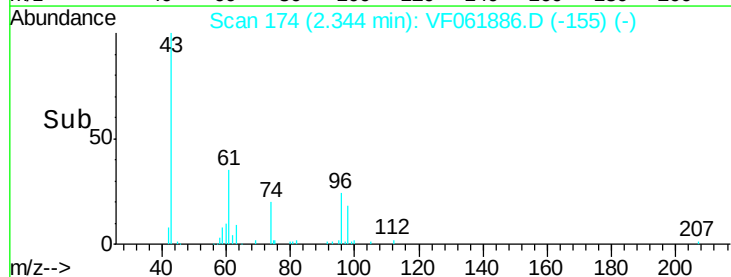
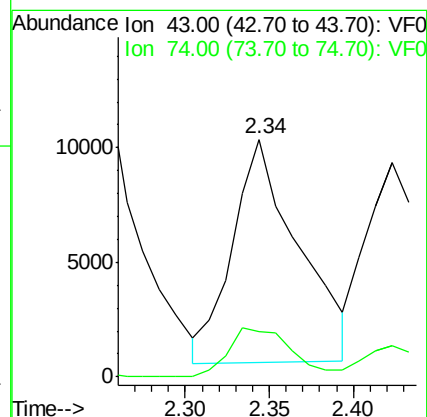
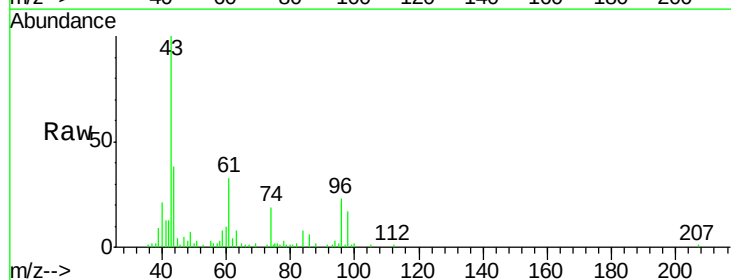
Acq: 11 Mar 2019 13:36

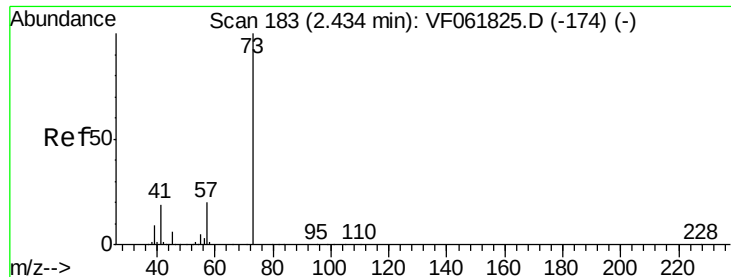
Tgt Ion: 43 Resp: 26450

Ion Ratio Lower Upper

43 100

74 19.2 13.2 19.8

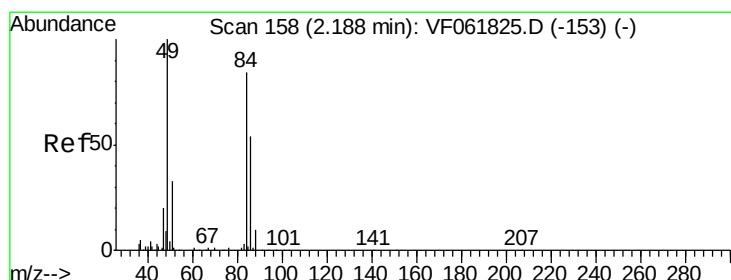
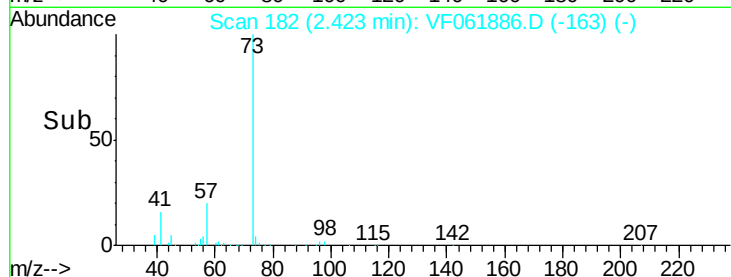
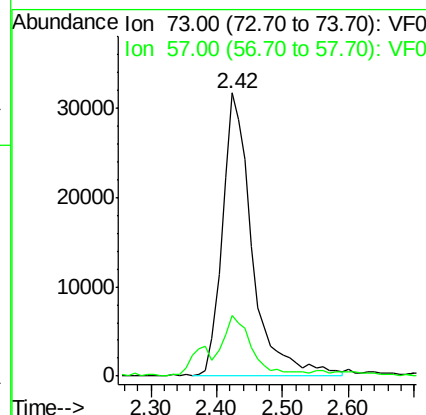
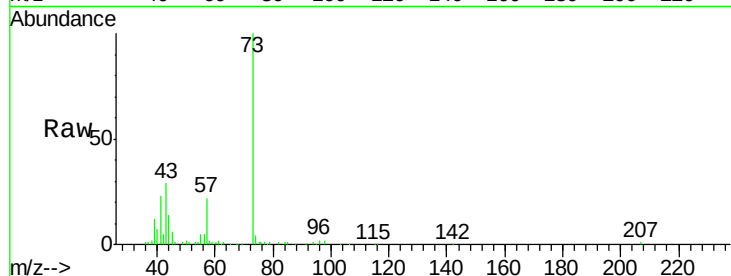




#19  
Methyl tert-butyl Ether  
Concen: 24.131 ug/l  
RT: 2.42 min Scan# 182  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

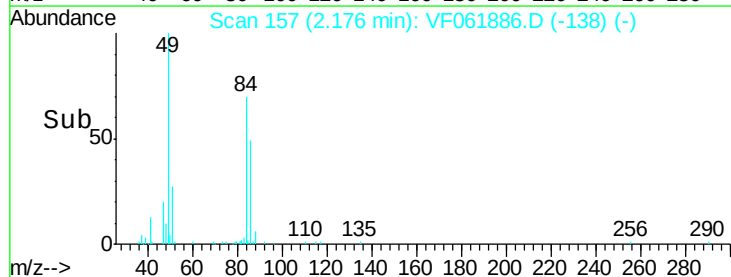
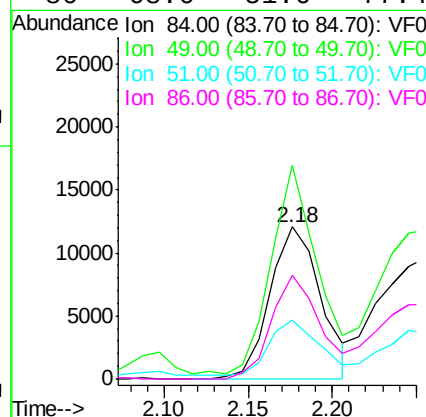
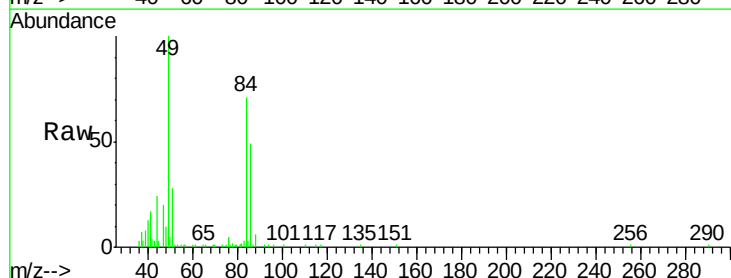
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBS01

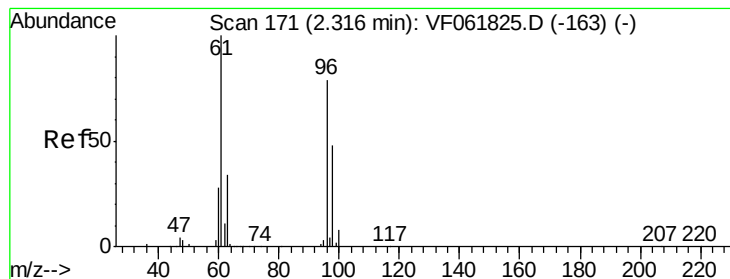
Tot Ion: 73 Resp: 99954  
Ion Ratio Lower Upper  
73 100  
57 21.6 16.1 24.1



#20  
Methylene Chloride  
Concen: 5.803 ug/l  
RT: 2.18 min Scan# 157  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion: 84 Resp: 25372  
Ion Ratio Lower Upper  
84 100  
49 140.5 96.8 145.2  
51 38.8 31.8 47.6  
86 68.6 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 25.646 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

VF0311SBS01

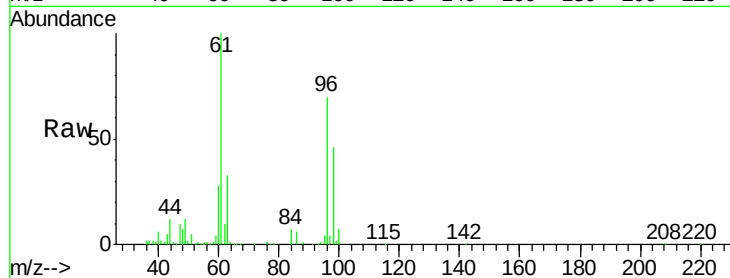
Tot Ion: 96 Resp: 59102

Ion Ratio Lower Upper

96 100

61 142.4 101.0 151.6

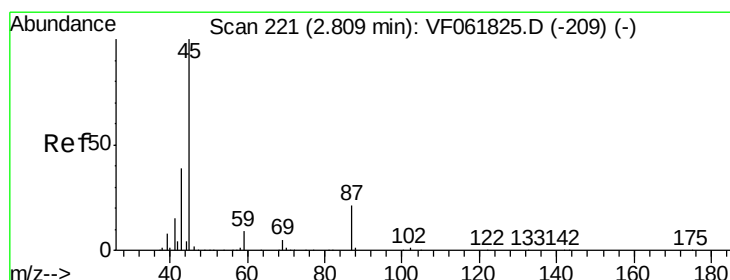
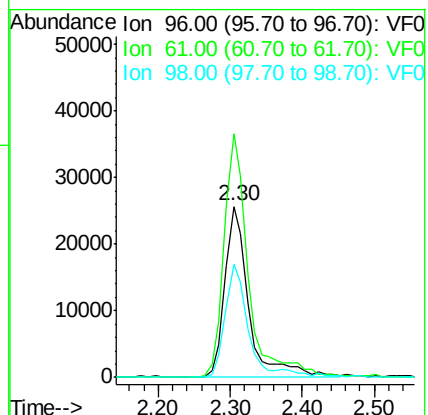
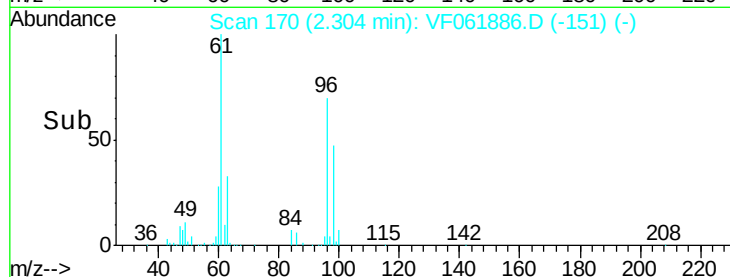
98 66.1 48.8 73.2



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 23.757 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Tgt Ion: 45 Resp: 166706

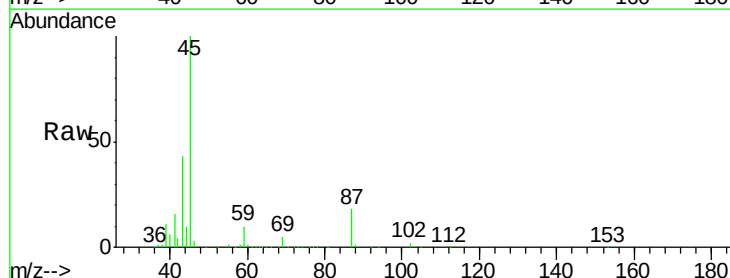
Ion Ratio Lower Upper

45 100

43 42.8 31.8 47.8

87 18.4 17.1 25.7

59 9.9 7.8 11.6

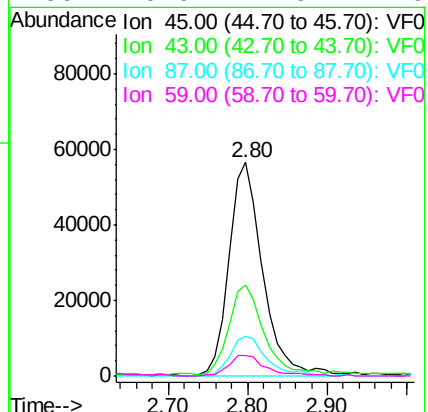
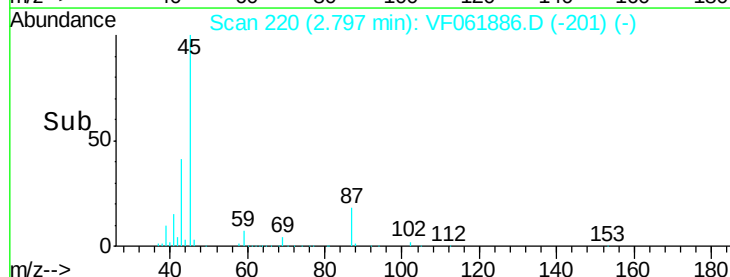


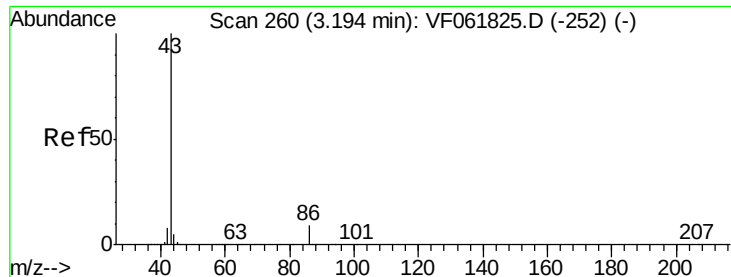
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 117.915 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

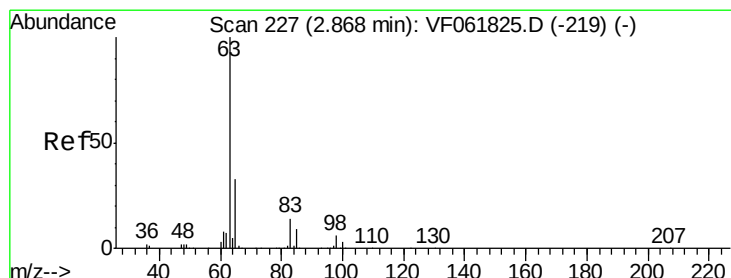
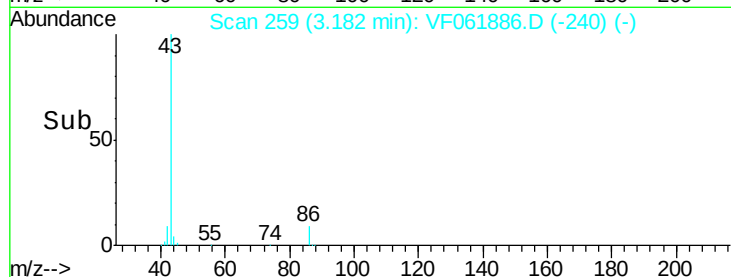
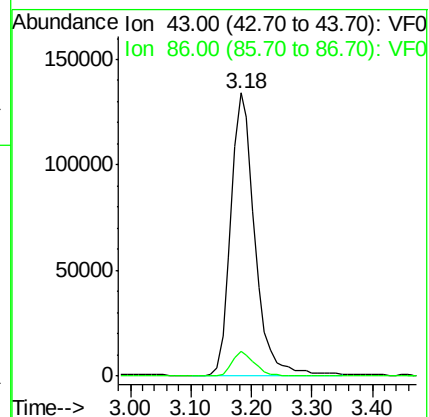
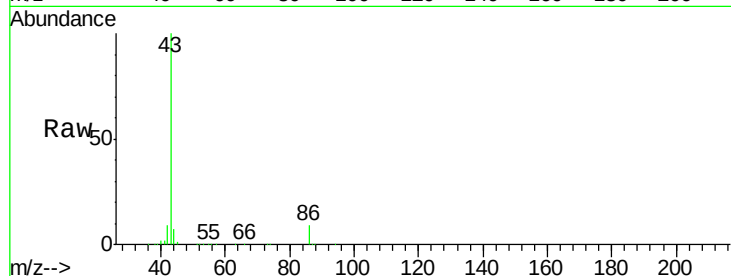
VF0311SBS01

Tot Ion: 43 Resp: 369632

Ion Ratio Lower Upper

43 100

86 8.8 7.0 10.4



#24

1,1-Dichloroethane

Concen: 25.097 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

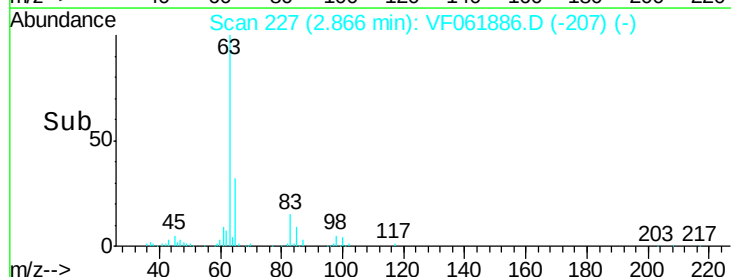
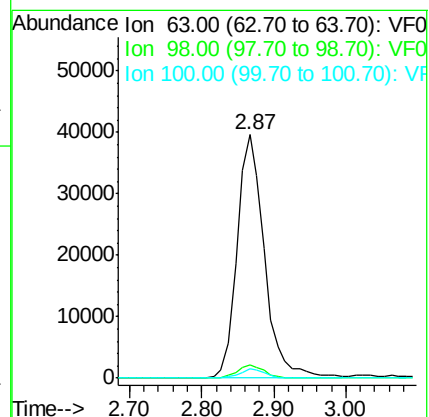
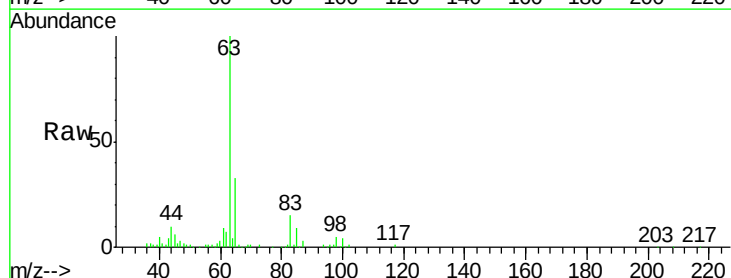
Tgt Ion: 63 Resp: 105260

Ion Ratio Lower Upper

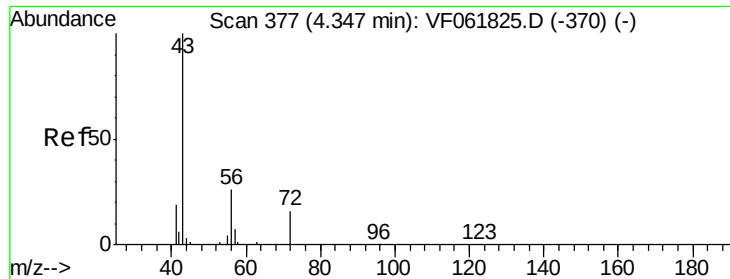
63 100

98 5.4 2.9 8.6

100 3.7 1.8 5.3







#25

2-Butanone

Concen: 116.944 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.02 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

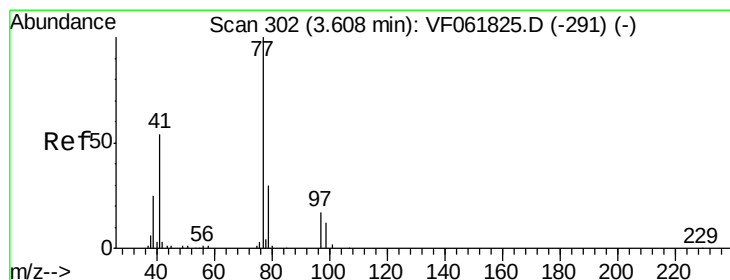
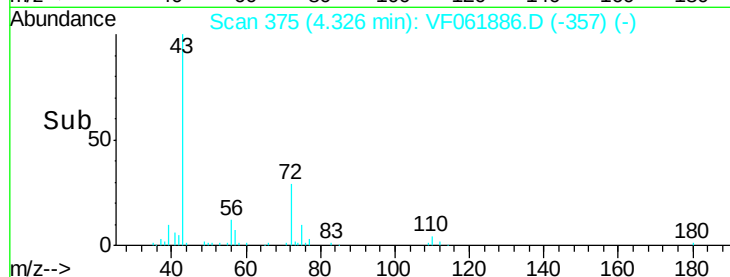
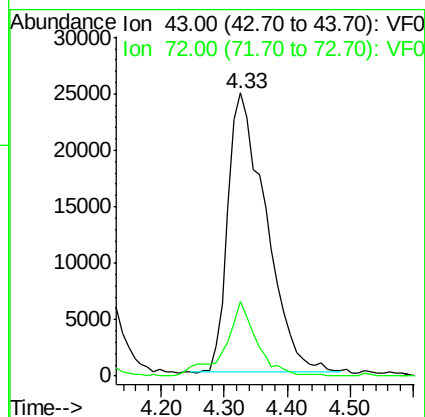
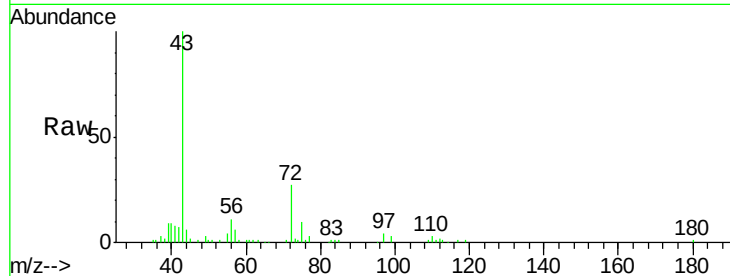
VF0311SBSD01

Tot Ion: 43 Resp: 103891

Ion Ratio Lower Upper

43 100

72 26.6 16.2 24.4#



#26

2,2-Dichloropropane

Concen: 25.620 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.01 min

Lab File: VF061886.D

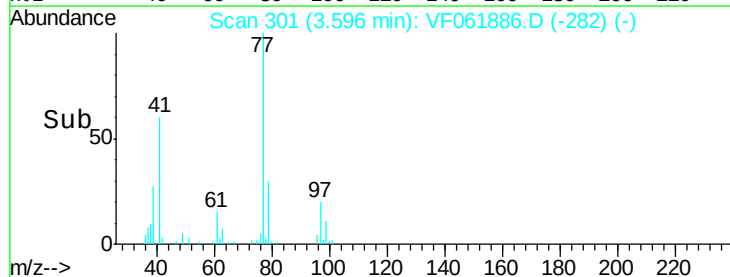
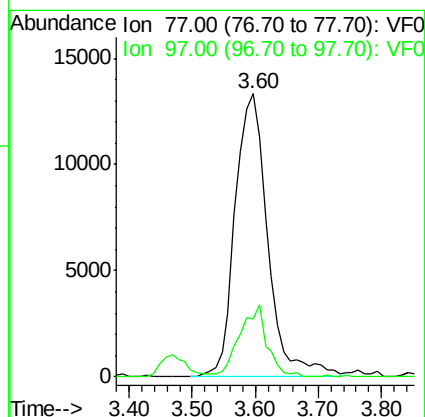
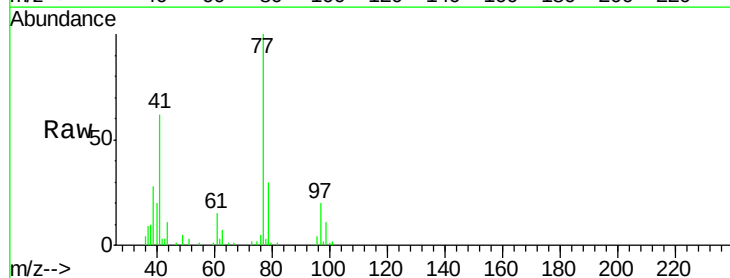
Acq: 11 Mar 2019 13:36

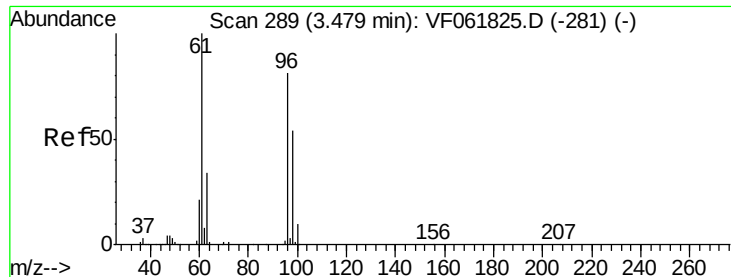
Tgt Ion: 77 Resp: 47969

Ion Ratio Lower Upper

77 100

97 20.4 10.4 31.4



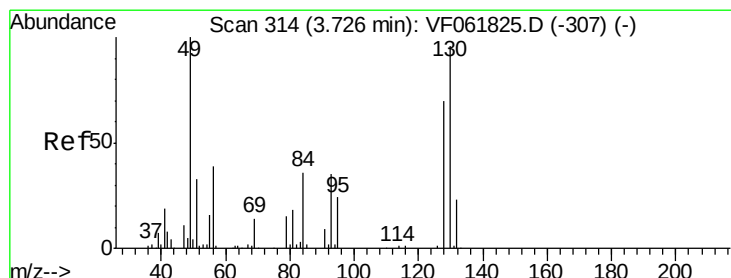
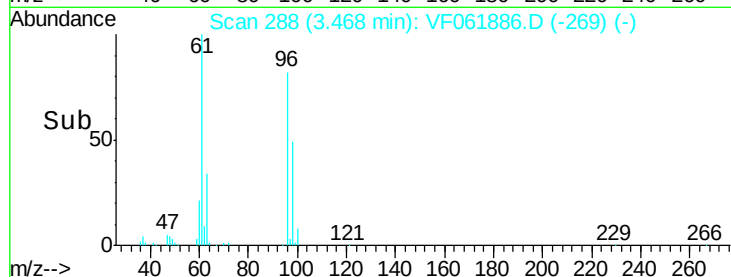
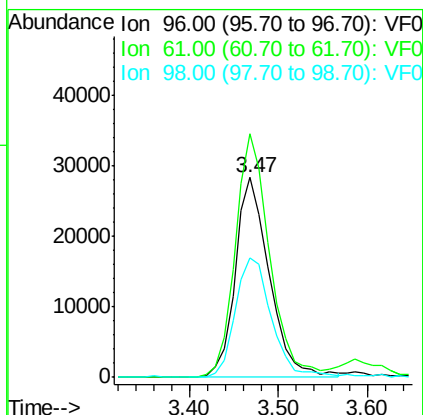
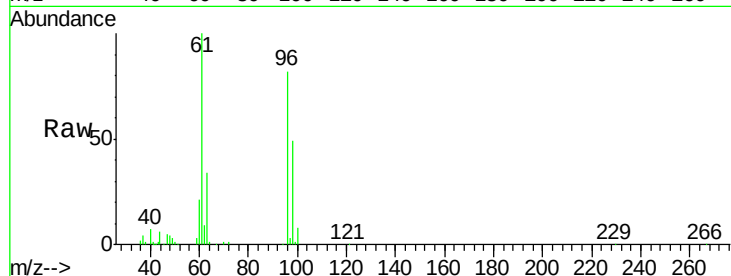


#27

cis-1,2-Dichloroethene  
Concen: 23.677 ug/l  
RT: 3.47 min Scan# 288  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBS01

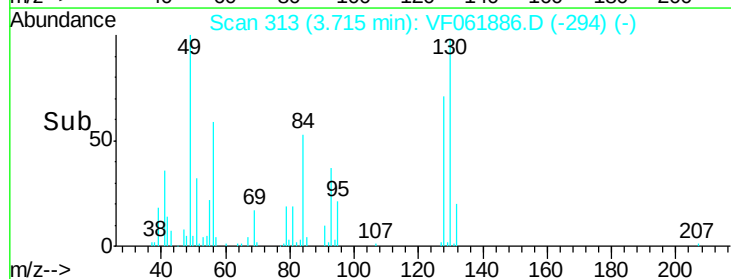
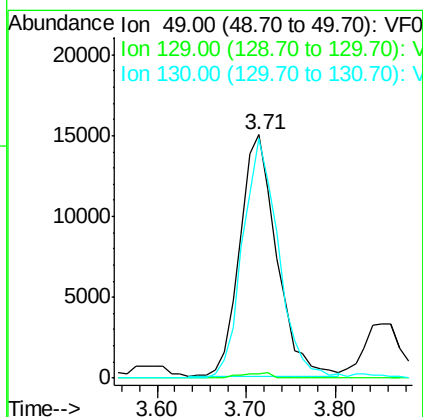
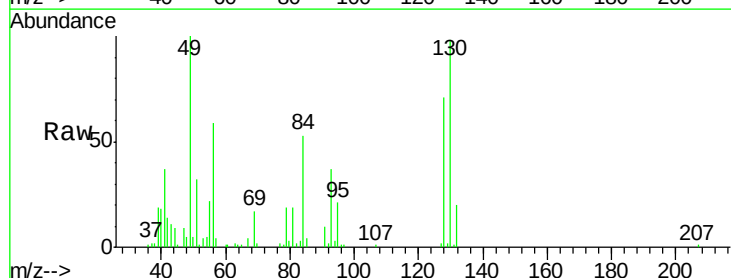
Tot Ion: 96 Resp: 75595  
Ion Ratio Lower Upper  
96 100  
61 121.8 0.0 245.8  
98 60.0 0.0 132.6

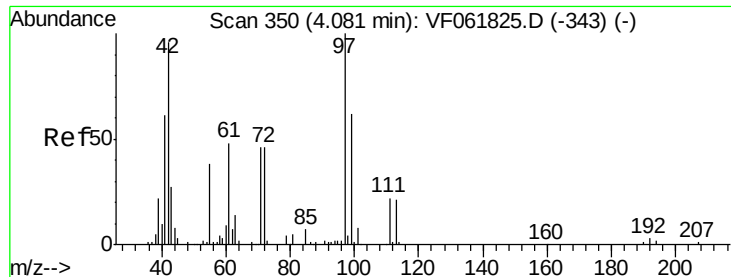


#28

Bromochloromethane  
Concen: 23.294 ug/l  
RT: 3.71 min Scan# 313  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion: 49 Resp: 42587  
Ion Ratio Lower Upper  
49 100  
129 1.6 0.0 0.0#  
130 98.4 76.9 115.3

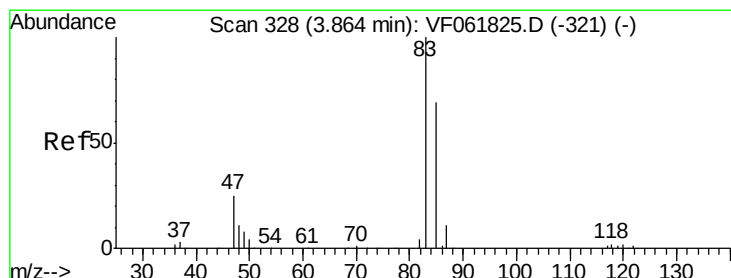
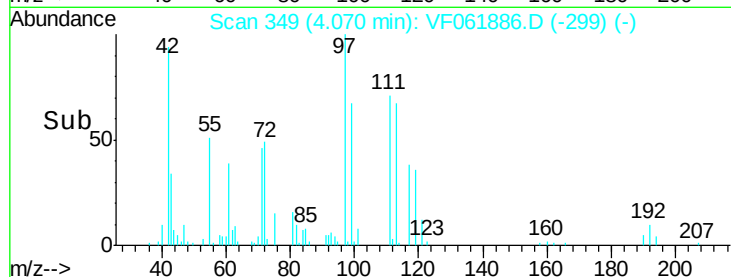
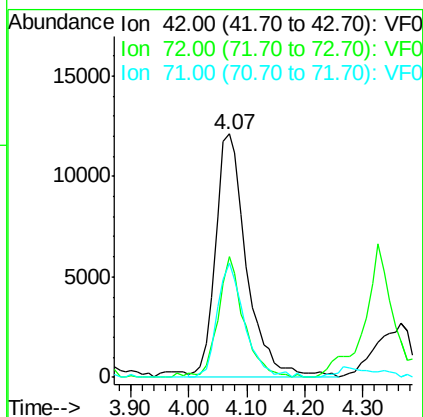
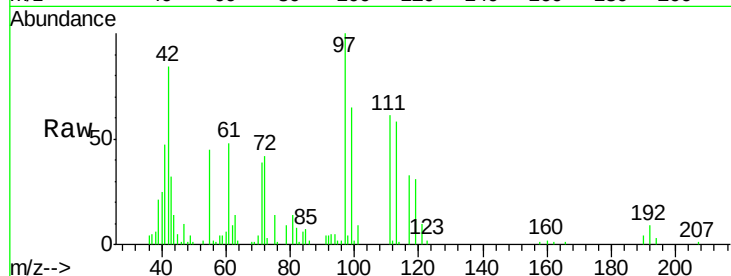




#29  
Tetrahydrofuran  
Concen: 117.471 ug/l  
RT: 4.07 min Scan# 349  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

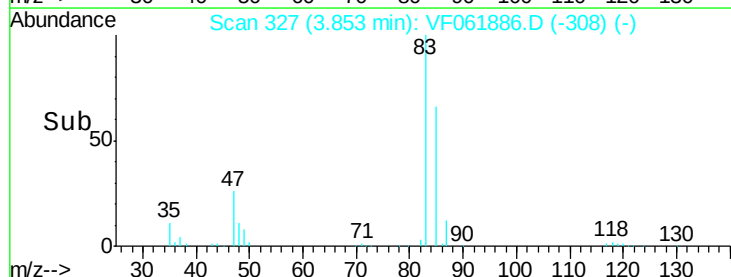
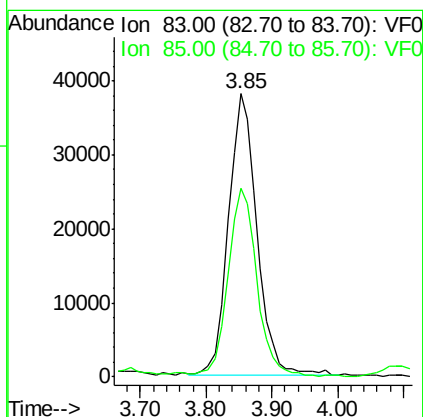
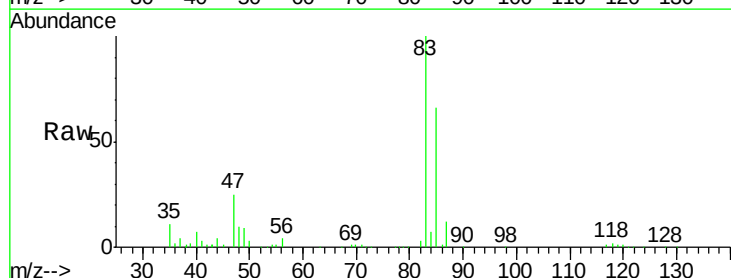
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBSD01

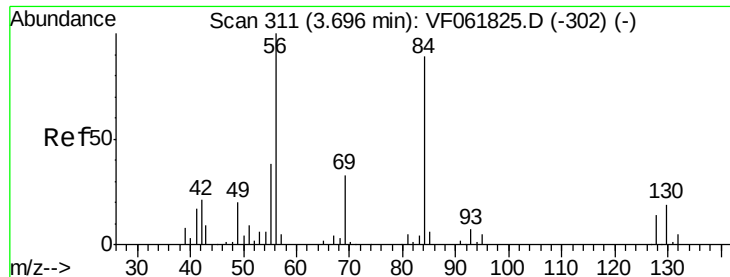
Tot Ion: 42 Resp: 45007  
Ion Ratio Lower Upper  
42 100  
72 41.5 34.4 51.6  
71 41.0 34.6 52.0



#30  
Chloroform  
Concen: 23.818 ug/l  
RT: 3.85 min Scan# 327  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion: 83 Resp: 114104  
Ion Ratio Lower Upper  
83 100  
85 66.5 55.3 82.9

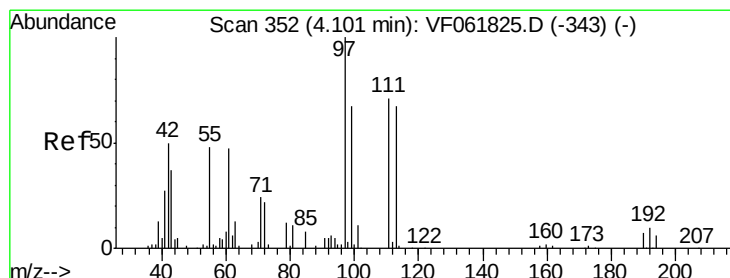
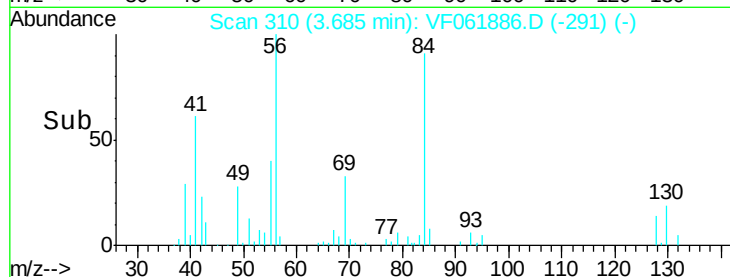
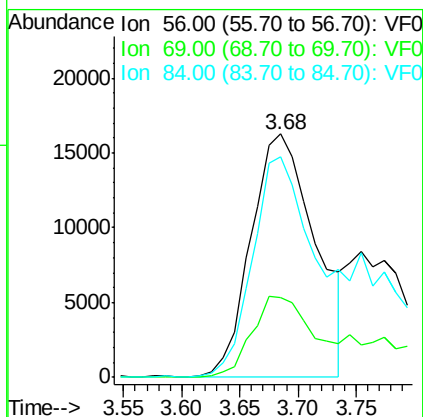
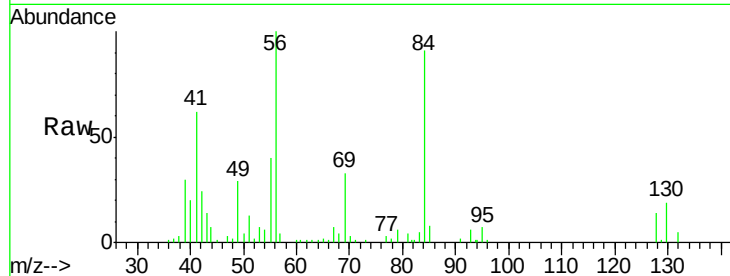




#31  
Cyclohexane  
Concen: 14.233 ug/l  
RT: 3.68 min Scan# 310  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

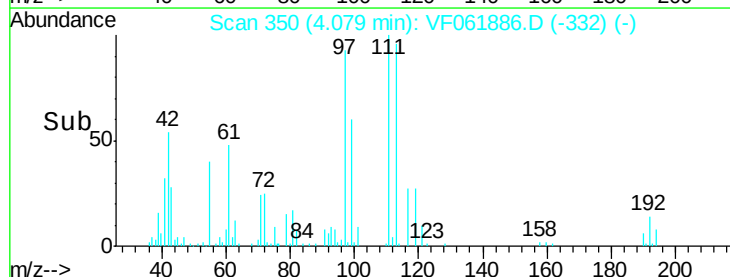
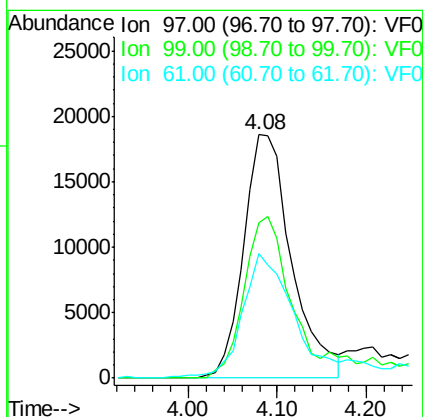
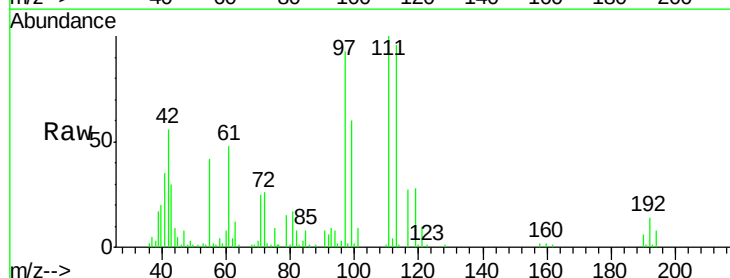
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBSD01

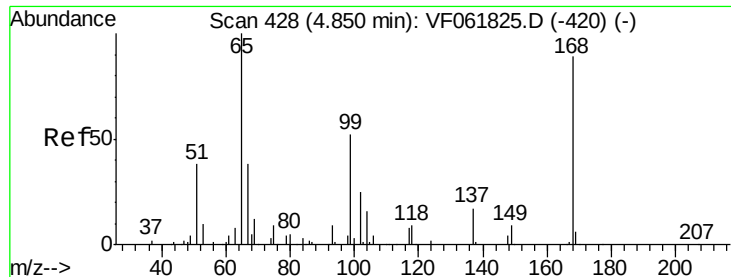
Tot Ion: 56 Resp: 62524  
Ion Ratio Lower Upper  
56 100  
69 32.6 26.0 39.0  
84 90.7 71.0 106.6



#32  
1,1,1-Trichloroethane  
Concen: 23.504 ug/l  
RT: 4.08 min Scan# 350  
Delta R.T. -0.02 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion: 97 Resp: 69403  
Ion Ratio Lower Upper  
97 100  
99 64.0 53.8 80.8  
61 51.1 37.9 56.9

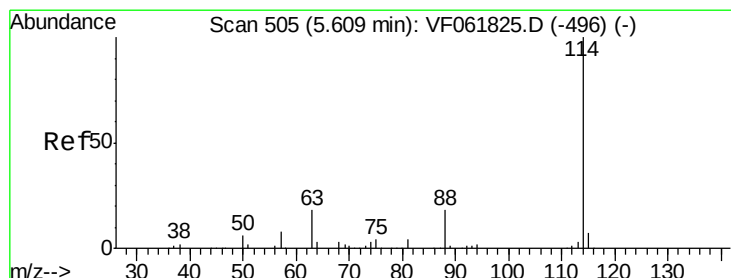
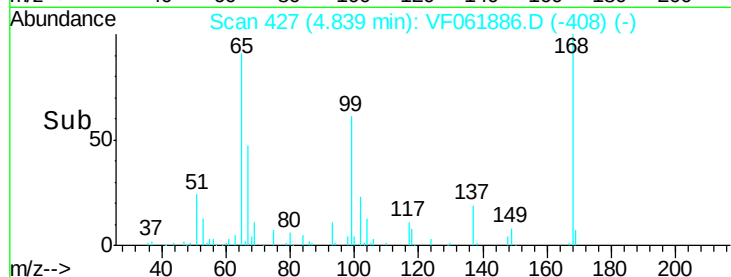
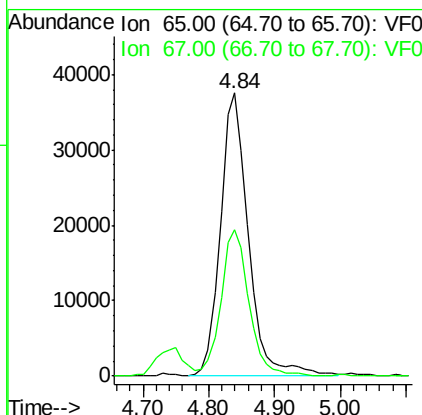
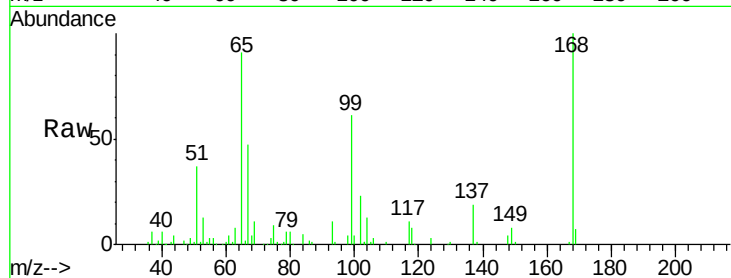




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.504 ug/l  
 RT: 4.84 min Scan# 427  
 Delta R.T. -0.01 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

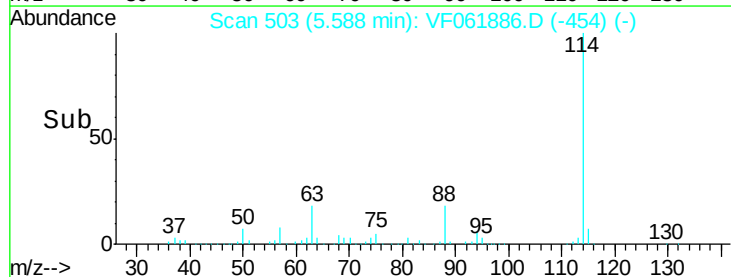
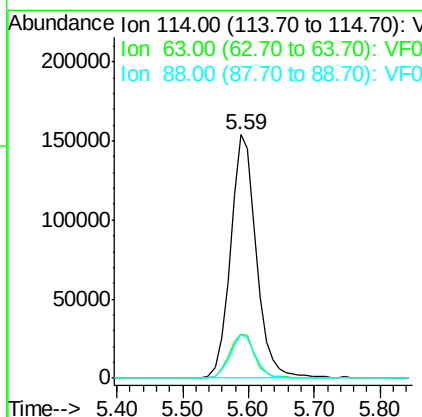
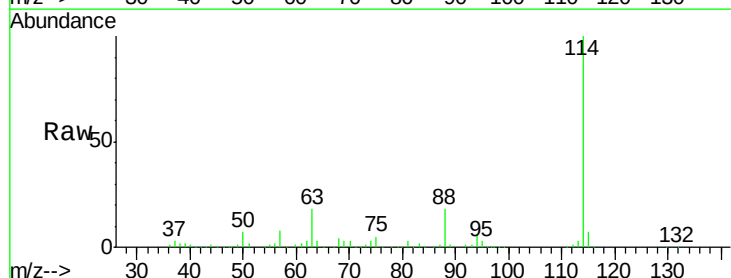
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0311SBS01

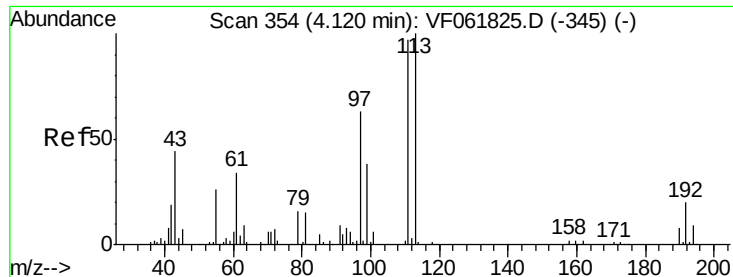
Tot Ion: 65 Resp: 111556  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 108.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.59 min Scan# 503  
 Delta R.T. -0.02 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

Tgt Ion: 114 Resp: 419997  
 Ion Ratio Lower Upper  
 114 100  
 63 18.1 0.0 35.6  
 88 18.0 0.0 35.6





#35

Dibromofluoromethane

Concen: 51.986 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

VF0311SBSD01

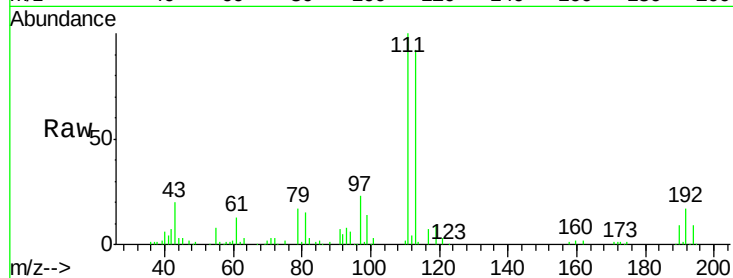
Tot Ion:113 Resp: 152374

Ion Ratio Lower Upper

113 100

111 108.3 77.6 116.4

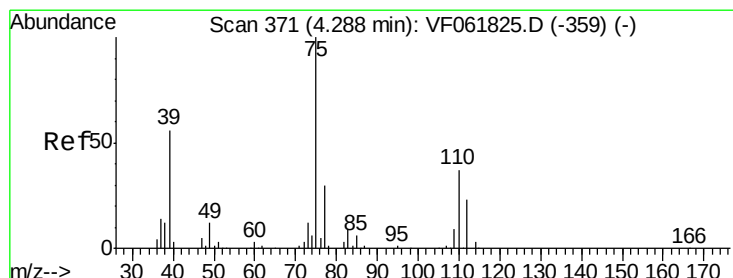
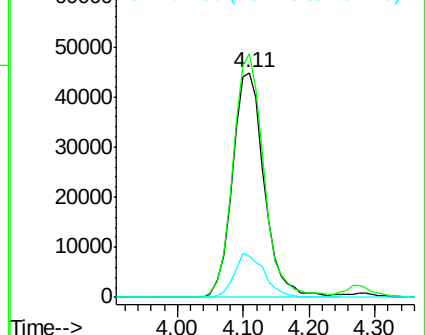
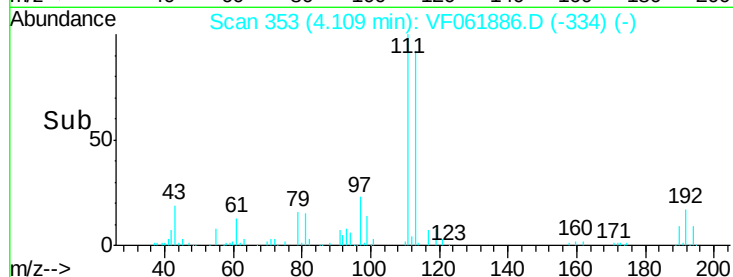
192 18.5 15.9 23.9



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 23.797 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

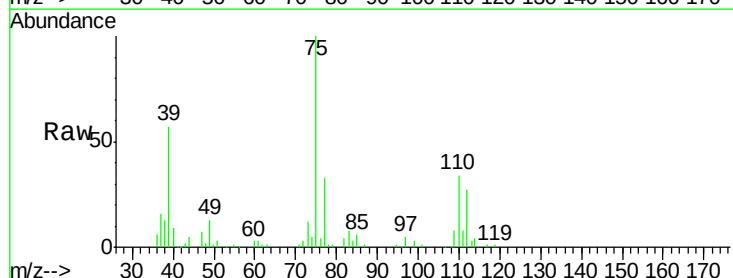
Tgt Ion: 75 Resp: 94410

Ion Ratio Lower Upper

75 100

110 34.4 18.6 55.6

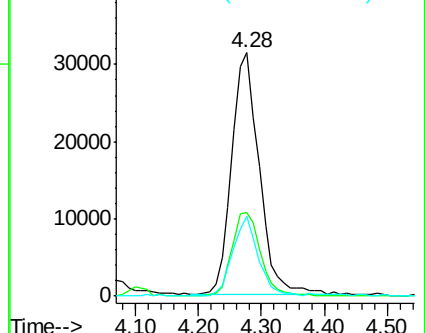
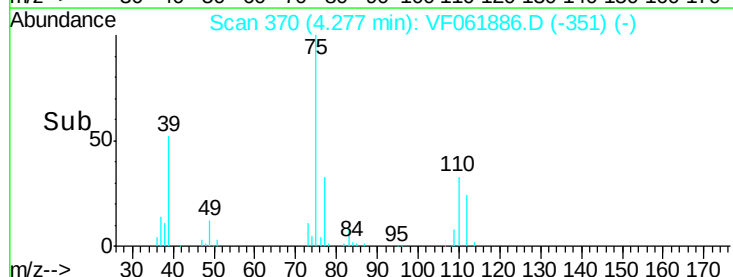
77 32.5 24.2 36.2

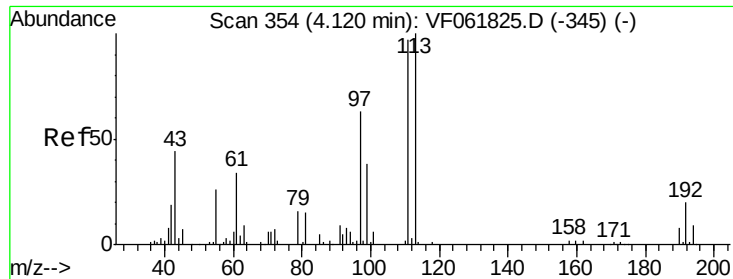


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

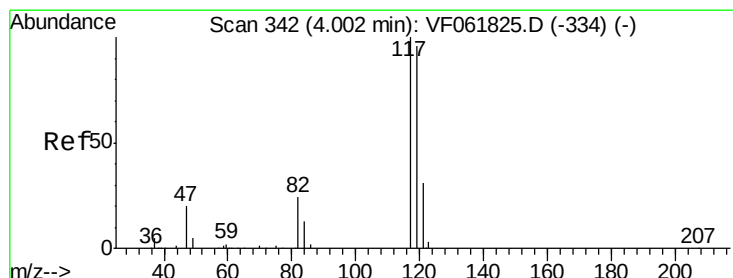
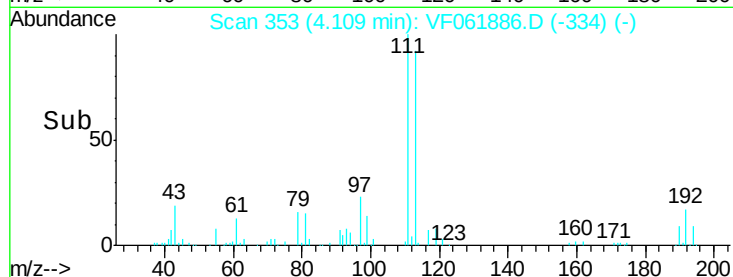
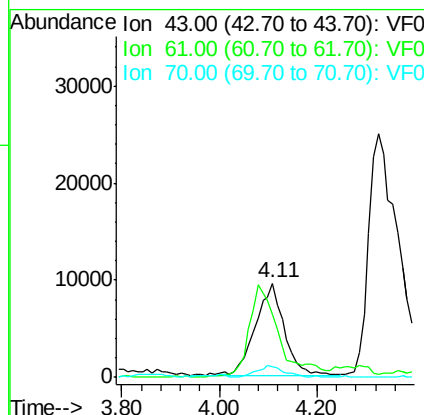
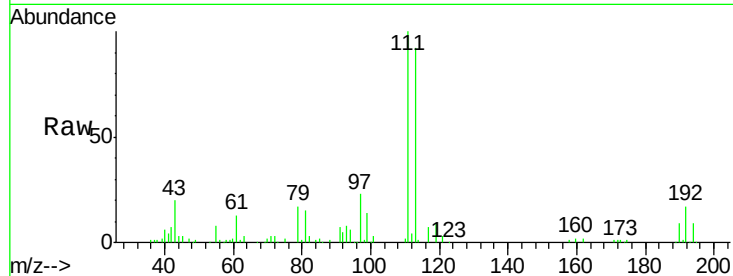




#37  
Ethyl Acetate  
Concen: 24.056 ug/l  
RT: 4.11 min Scan# 353  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

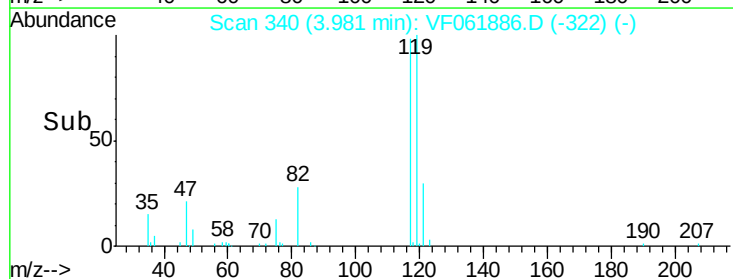
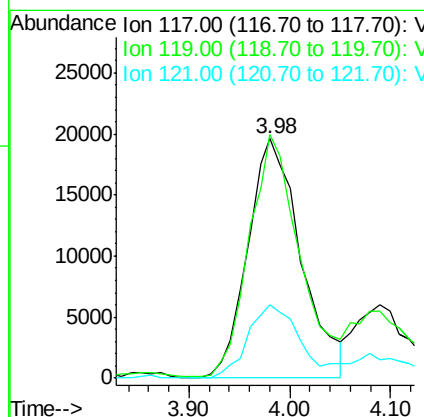
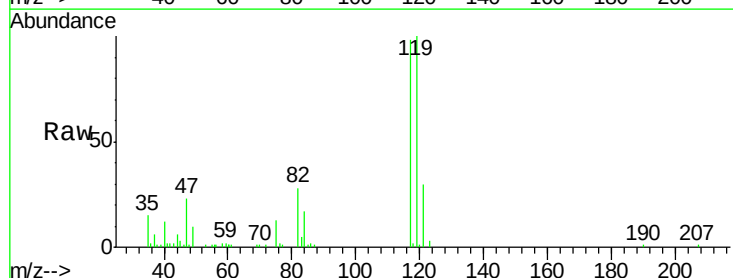
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBSD01

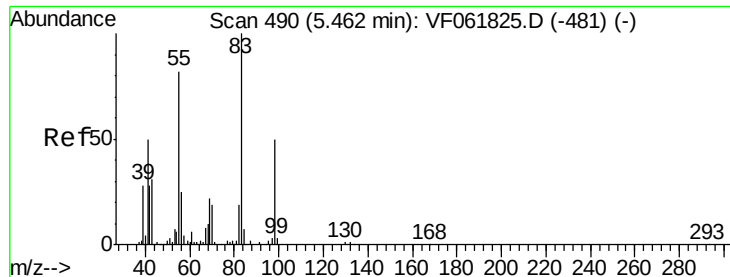
Tot Ion: 43 Resp: 40058  
Ion Ratio Lower Upper  
43 100  
61 67.0 60.7 91.1  
70 10.9 10.6 15.8



#38  
Carbon Tetrachloride  
Concen: 25.630 ug/l  
RT: 3.98 min Scan# 340  
Delta R.T. -0.02 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion: 117 Resp: 71982  
Ion Ratio Lower Upper  
117 100  
119 101.7 76.6 114.8  
121 30.9 24.4 36.6

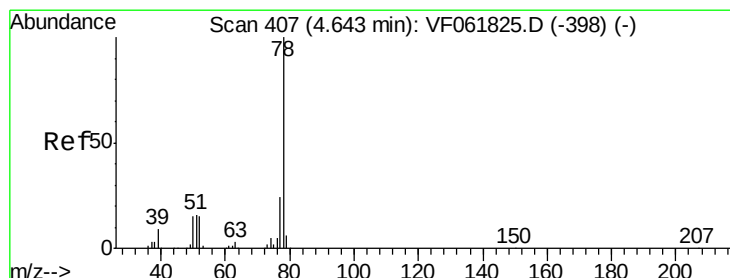
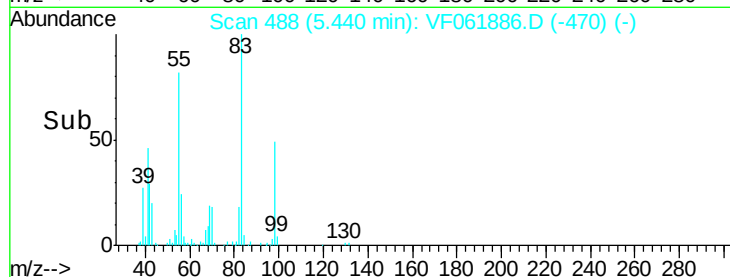
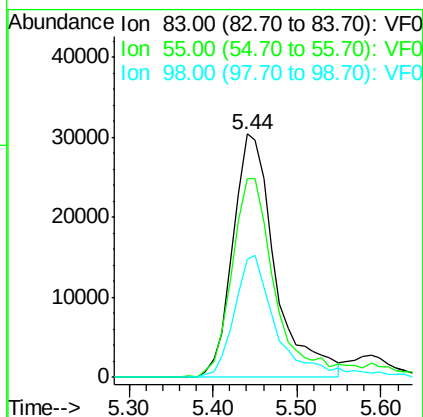
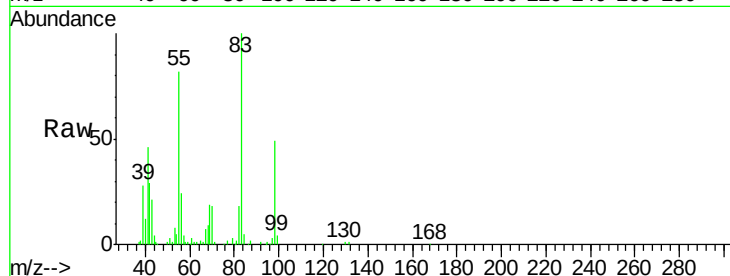




#39  
Methylvlcyclohexane  
Concen: 22.842 ug/l  
RT: 5.44 min Scan# 488  
Delta R.T. -0.02 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

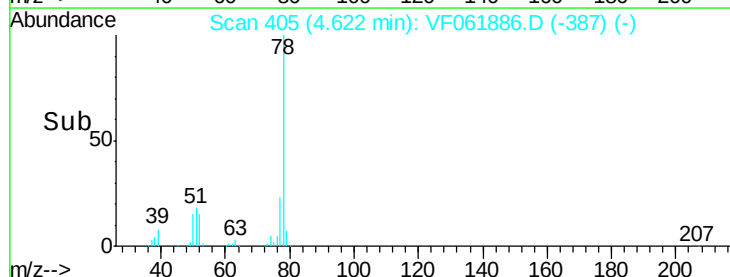
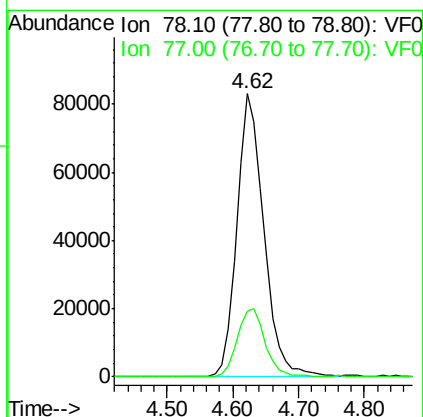
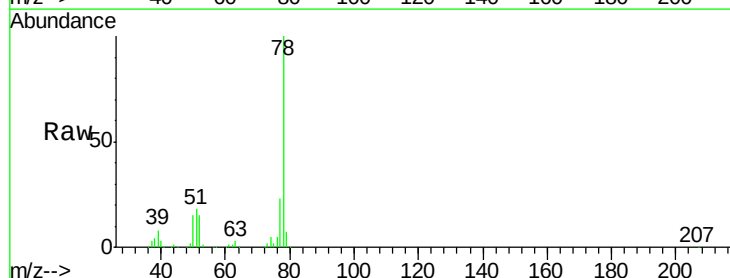
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBS01

Tot Ion: 83 Resp: 107036  
Ion Ratio Lower Upper  
83 100  
55 81.8 66.0 99.0  
98 48.5 39.8 59.6

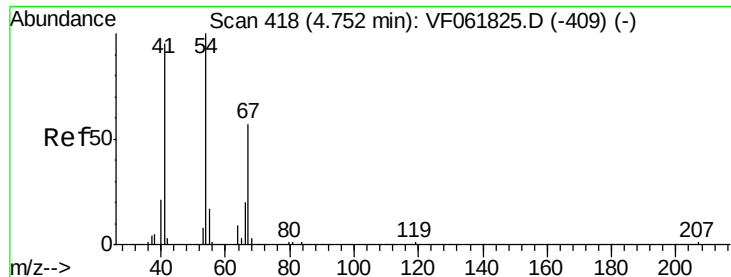


#40  
Benzene  
Concen: 23.083 ug/l  
RT: 4.62 min Scan# 405  
Delta R.T. -0.02 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion: 78 Resp: 239371  
Ion Ratio Lower Upper  
78 100  
77 23.4 19.5 29.3



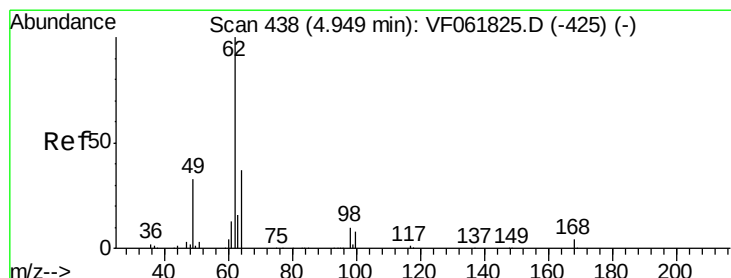
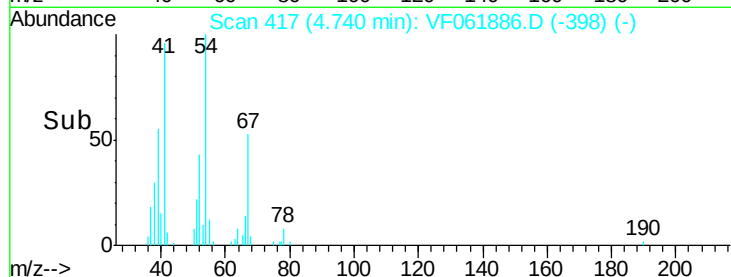
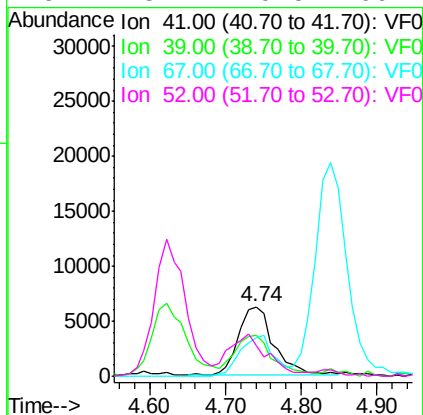
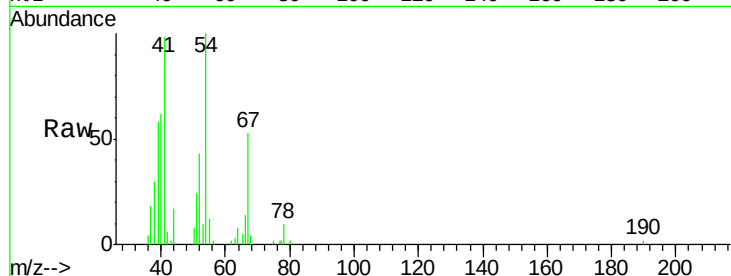




#41  
Methacrylonitrile  
Concen: 22.177 ug/l  
RT: 4.74 min Scan# 417  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

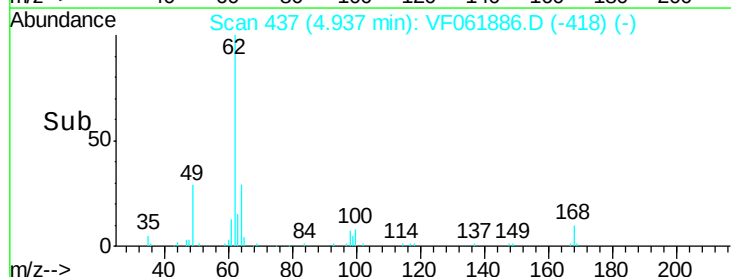
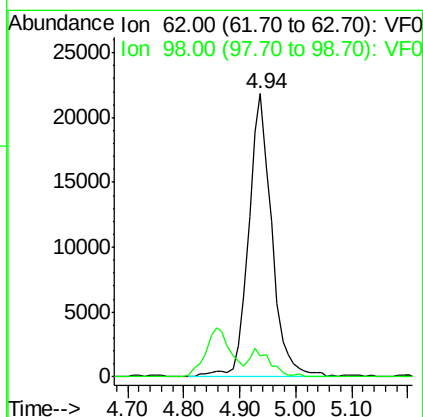
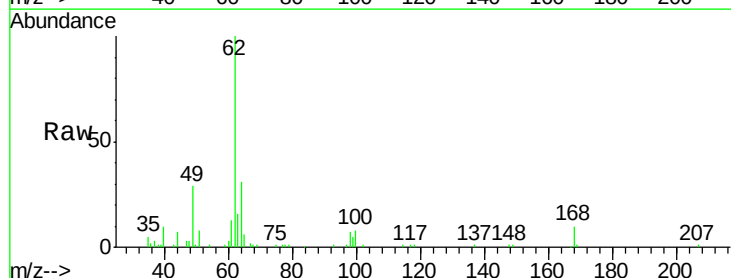
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBS01

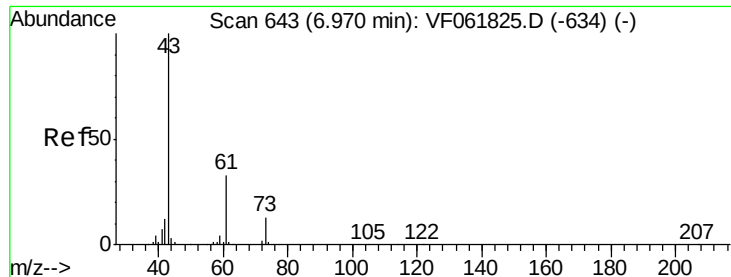
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 20233 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 59.4  | 43.0  | 64.6  |
| 67       | 54.5  | 47.8  | 71.8  |
| 52       | 43.4  | 40.5  | 60.7  |



#42  
1,2-Dichloroethane  
Concen: 24.120 ug/l  
RT: 4.94 min Scan# 437  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 62334 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 7.3   | 0.0   | 21.0  |





#43

Isopropyl Acetate

Concen: 21.930 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.02 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

VF0311SBS01

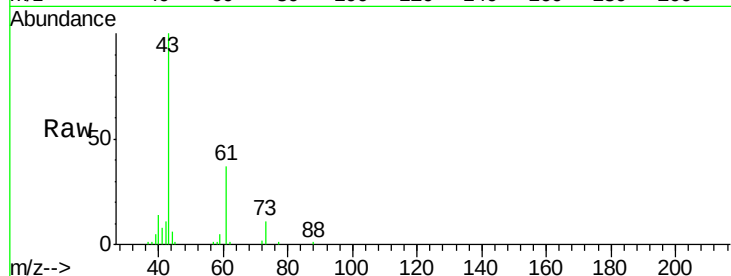
Tot Ion: 43 Resp: 45014

Ion Ratio Lower Upper

43 100

61 36.7 26.1 39.1

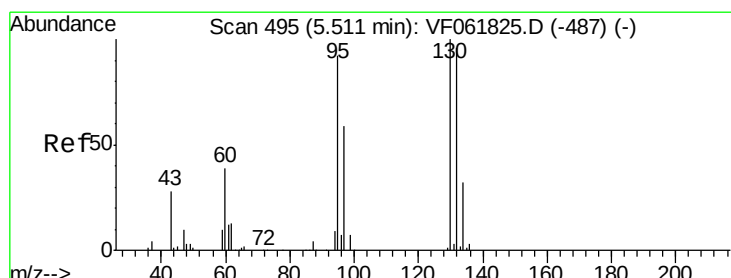
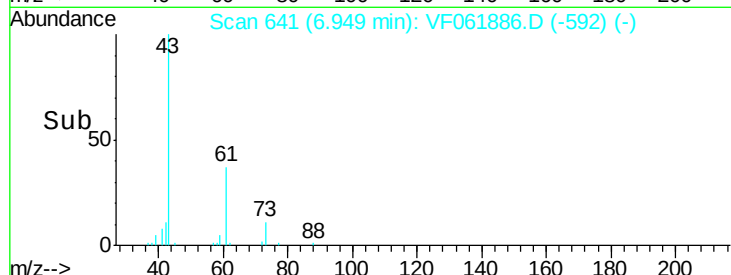
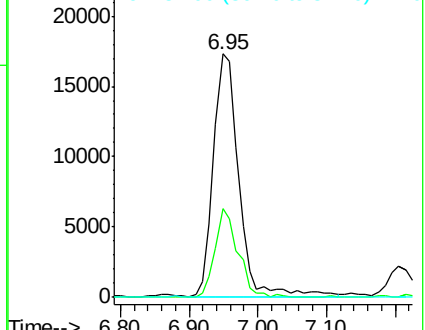
87 0.0 0.0 0.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 23.993 ug/l

RT: 5.50 min Scan# 494

Delta R.T. -0.01 min

Lab File: VF061886.D

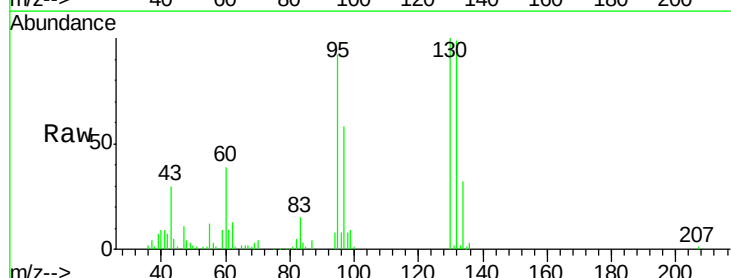
Acq: 11 Mar 2019 13:36

Tgt Ion: 130 Resp: 77323

Ion Ratio Lower Upper

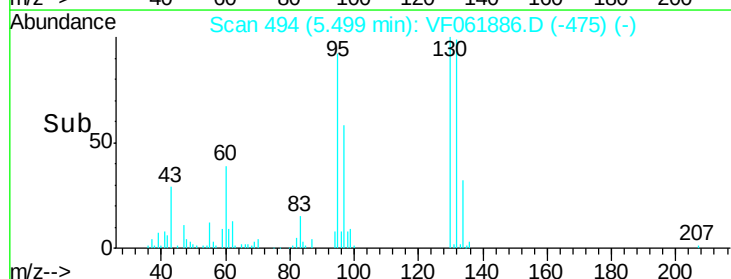
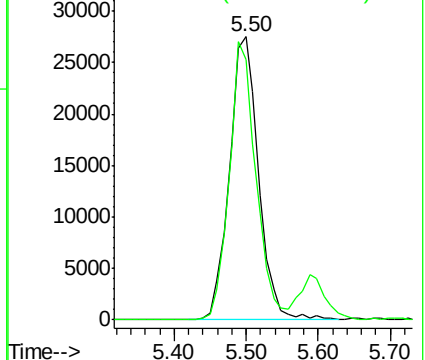
130 100

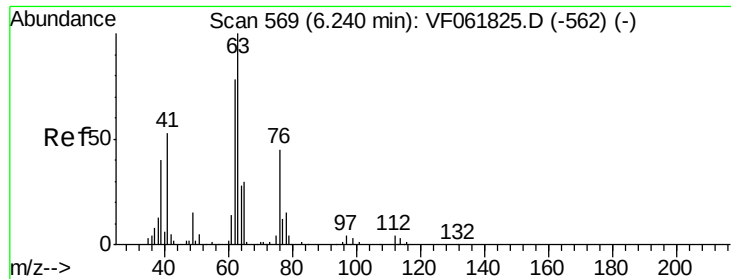
95 92.1 0.0 184.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

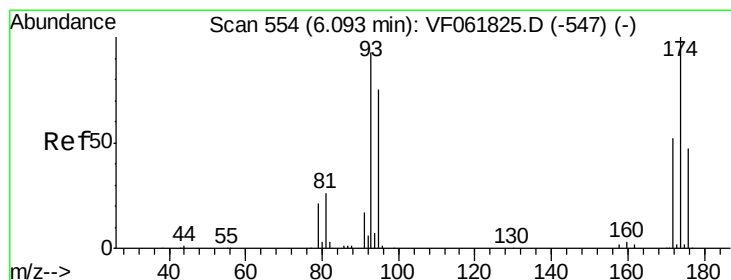
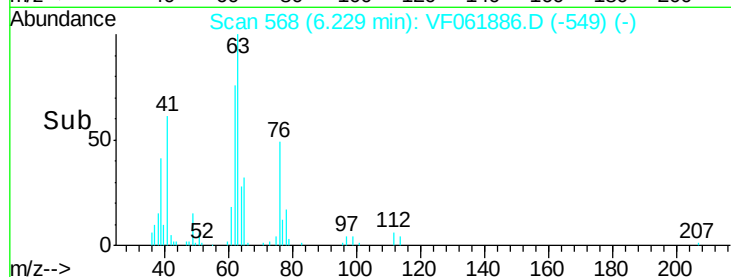
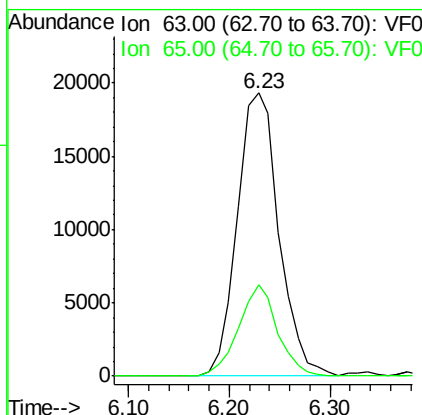
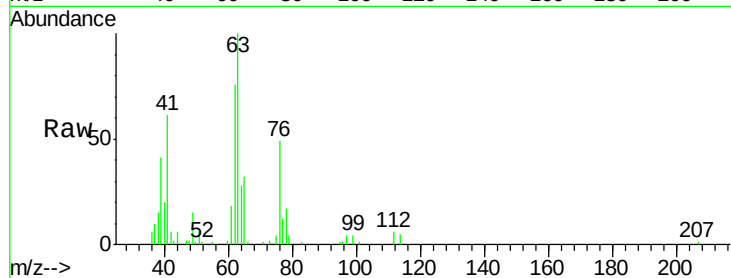




#45  
 1,2-Dichloropropane  
 Concen: 22.498 ug/l  
 RT: 6.23 min Scan# 568  
 Delta R.T. -0.01 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

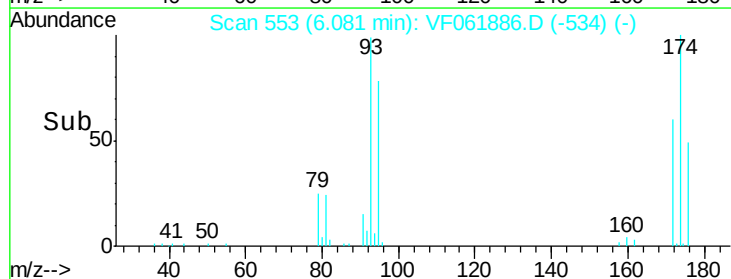
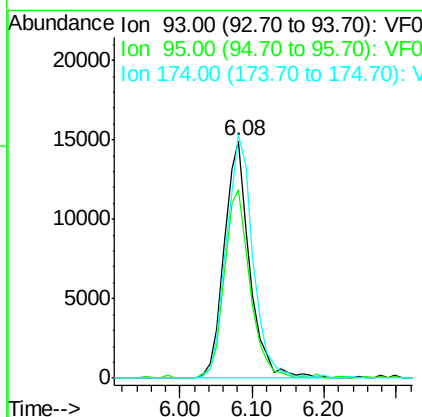
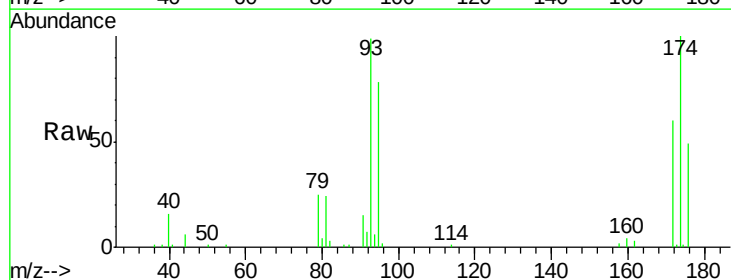
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0311SBSD01

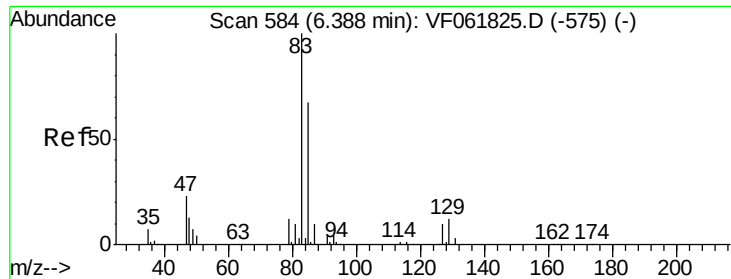
Tot Ion: 63 Resp: 55479  
 Ion Ratio Lower Upper  
 63 100  
 65 32.1 24.0 36.0



#46  
 Dibromomethane  
 Concen: 23.338 ug/l  
 RT: 6.08 min Scan# 553  
 Delta R.T. -0.01 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

Tgt Ion: 93 Resp: 36220  
 Ion Ratio Lower Upper  
 93 100  
 95 79.6 64.4 96.6  
 174 102.6 85.8 128.6





#47

Bromodichloromethane

Concen: 23.131 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

VF0311SBS01

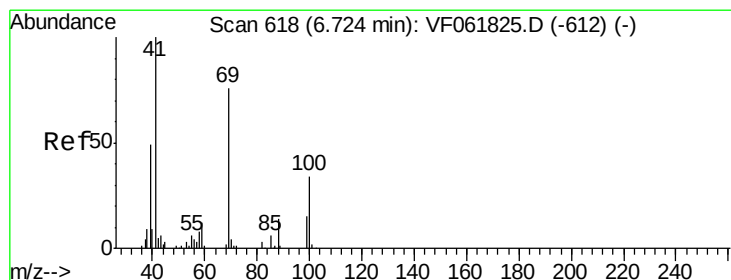
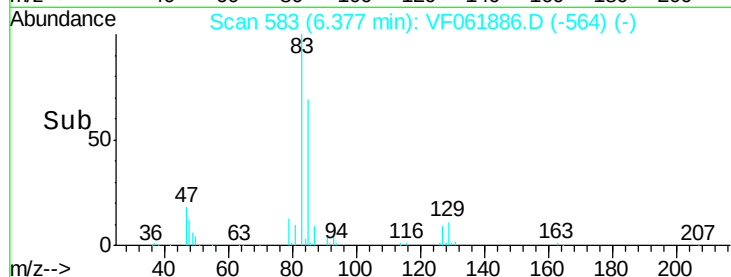
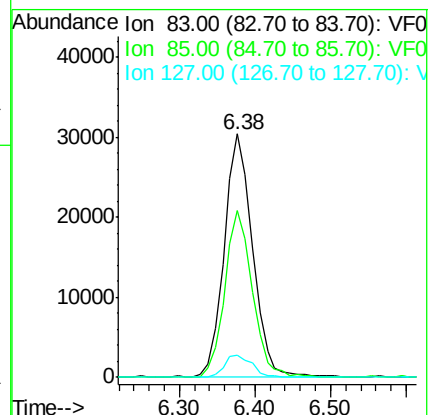
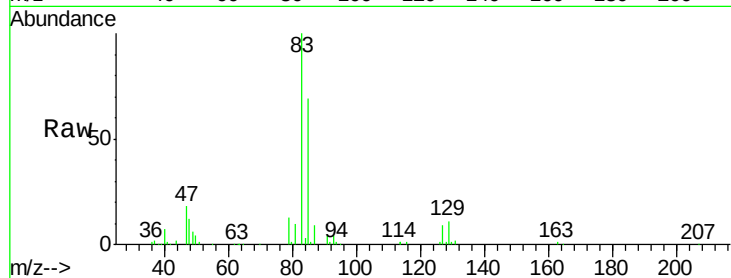
Tot Ion: 83 Resp: 79309

Ion Ratio Lower Upper

83 100

85 68.7 53.6 80.4

127 9.0 8.1 12.1



#48

Methyl methacrylate

Concen: 23.006 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

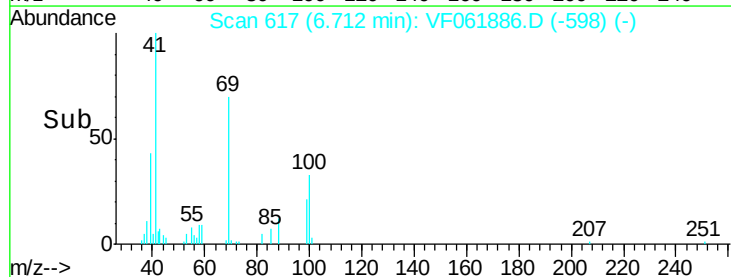
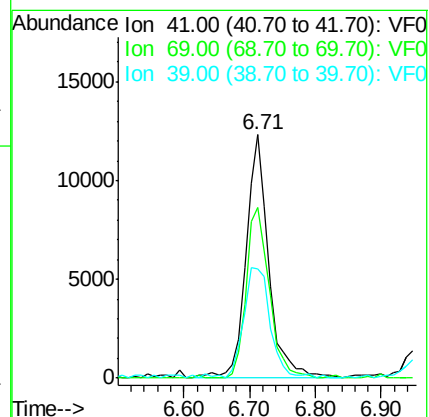
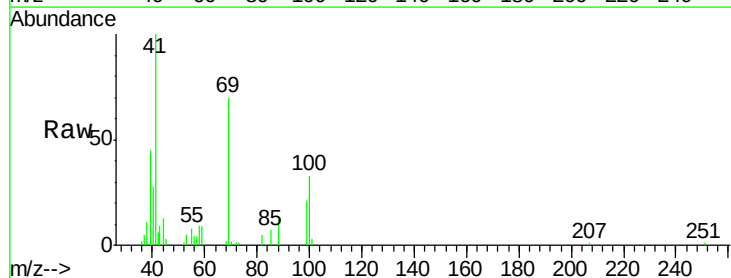
Tgt Ion: 41 Resp: 29887

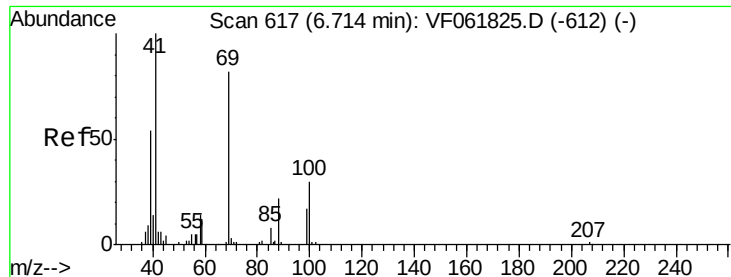
Ion Ratio Lower Upper

41 100

69 70.0 60.4 90.6

39 44.8 39.7 59.5

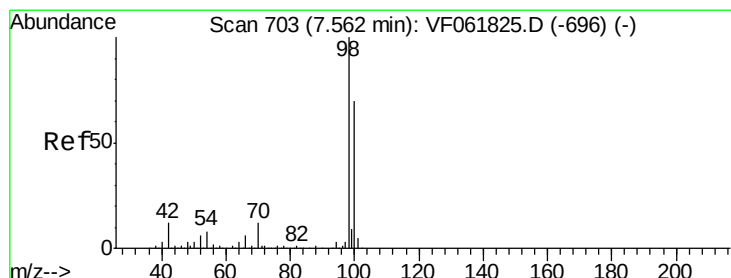
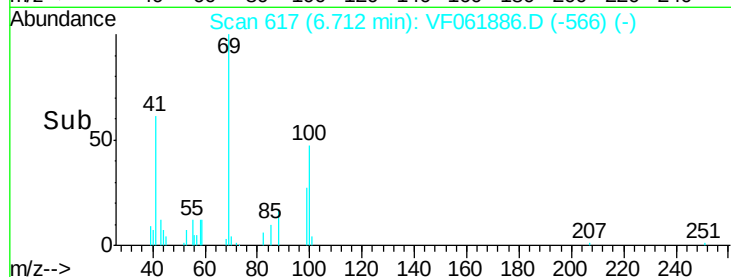
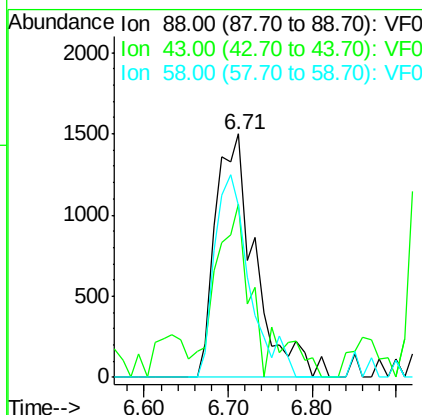
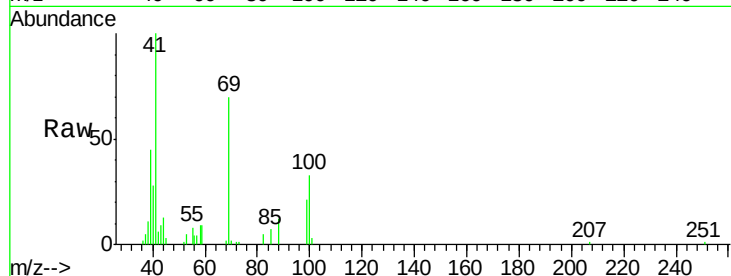




#49  
1,4-Dioxane  
Concen: 414.802 ug/l  
RT: 6.71 min Scan# 617  
Delta R.T. -0.00 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

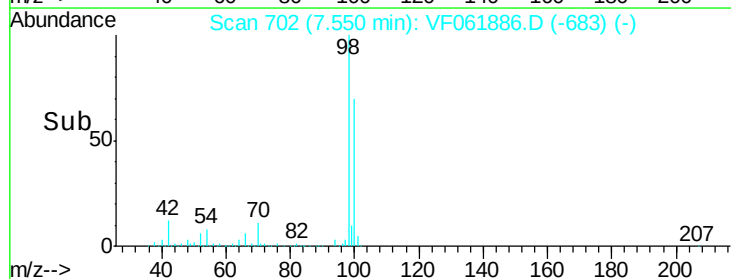
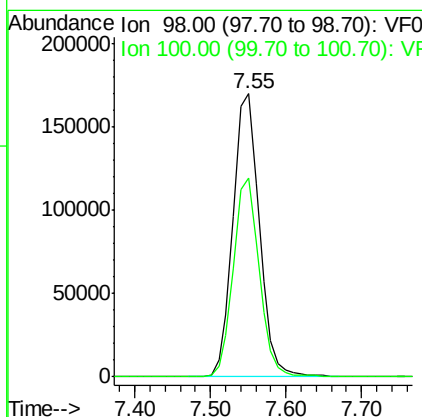
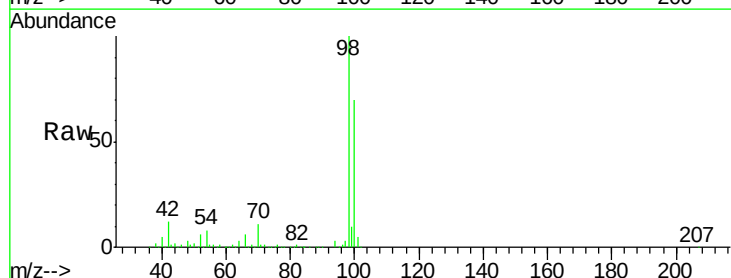
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBS01

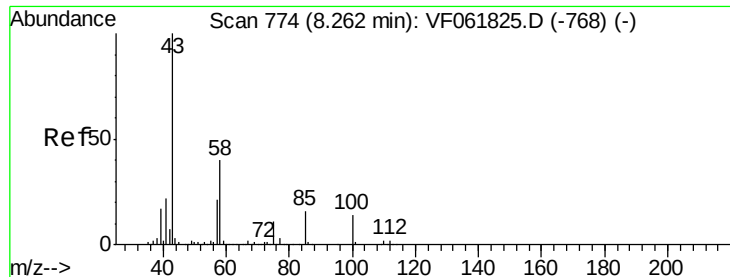
Tot Ion: 88 Resp: 4926  
Ion Ratio Lower Upper  
88 100  
43 71.1 28.4 42.6#  
58 70.6 50.7 76.1



#50  
Toluene-d8  
Concen: 46.906 ug/l  
RT: 7.55 min Scan# 702  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion: 98 Resp: 408638  
Ion Ratio Lower Upper  
98 100  
100 70.2 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 115.530 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

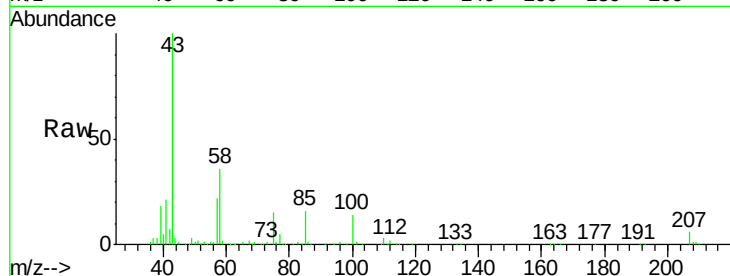
VF0311SBS01

Tot Ion: 43 Resp: 163900

Ion Ratio Lower Upper

43 100

58 36.4 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.25

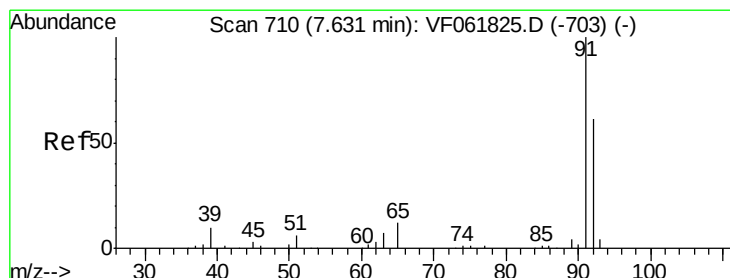
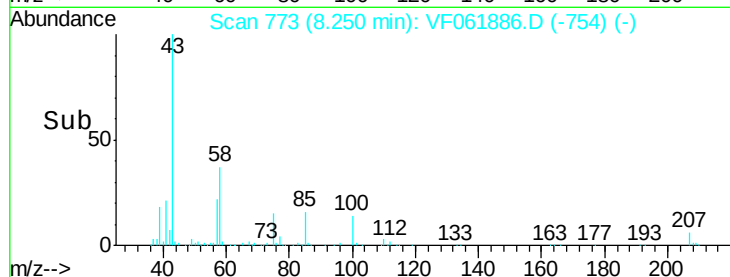
60000

40000

20000

0

Time--> 8.10 8.20 8.30 8.40



#52

Toluene

Concen: 22.857 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061886.D

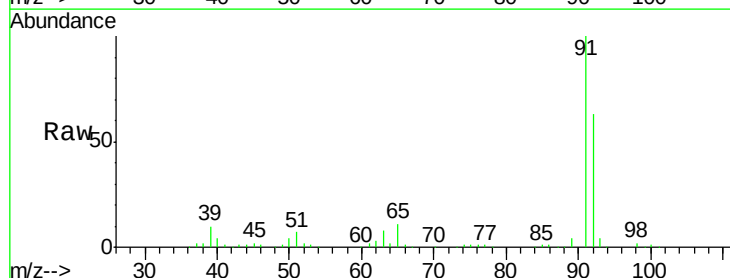
Acq: 11 Mar 2019 13:36

Tgt Ion: 92 Resp: 140219

Ion Ratio Lower Upper

92 100

91 159.5 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.62

100000

80000

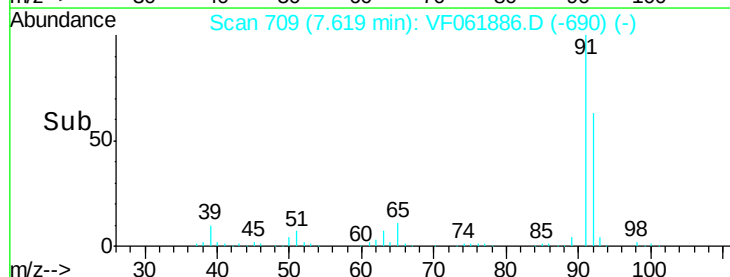
60000

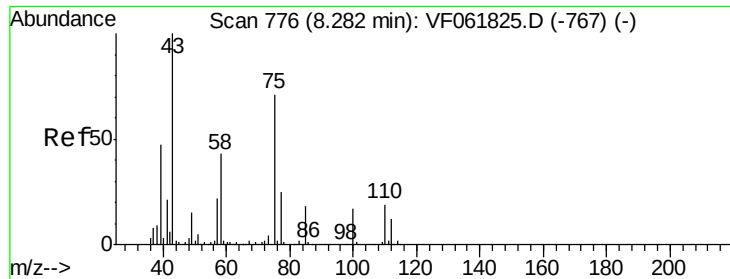
40000

20000

0

Time--> 7.50 7.60 7.70





#53

t-1,3-Dichloropropene

Concen: 21.956 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

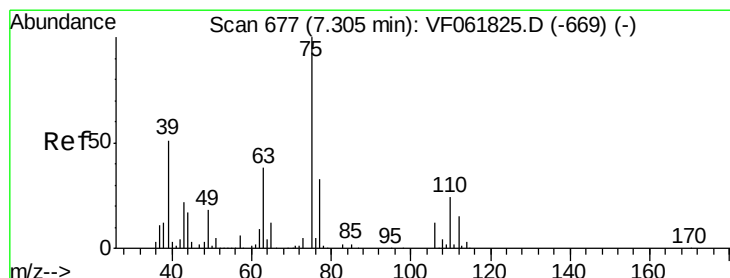
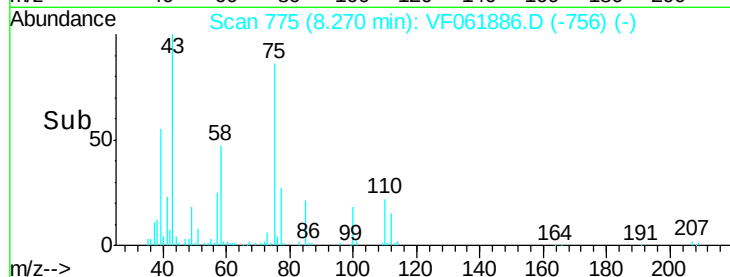
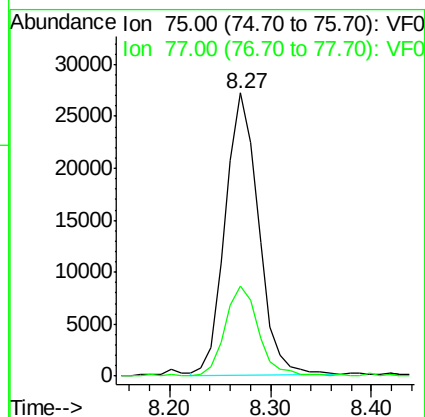
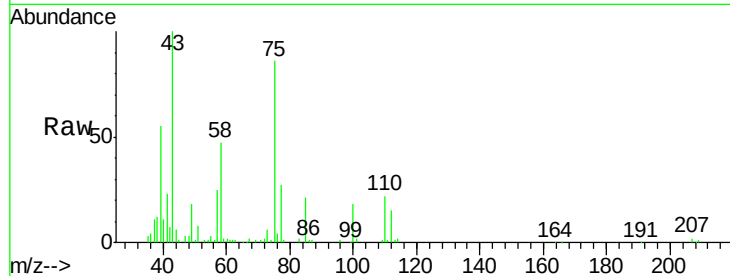
VF0311SBSD01

Tot Ion: 75 Resp: 62140

Ion Ratio Lower Upper

75 100

77 31.7 28.0 42.0



#54

cis-1,3-Dichloropropene

Concen: 22.769 ug/l

RT: 7.29 min Scan# 676

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

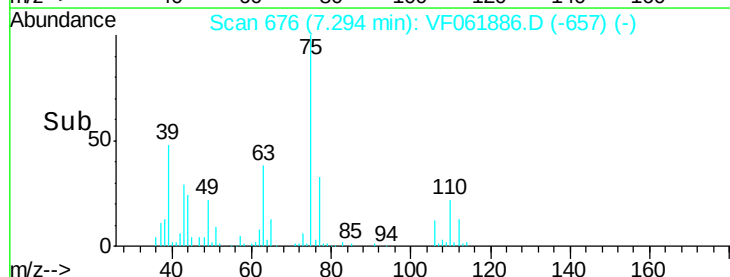
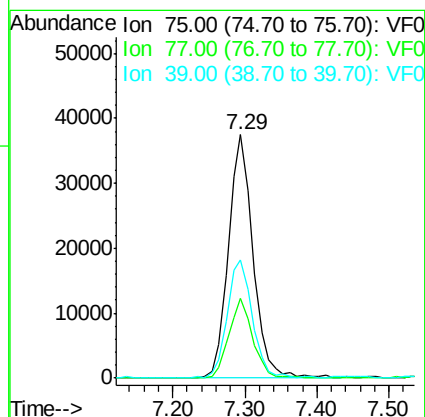
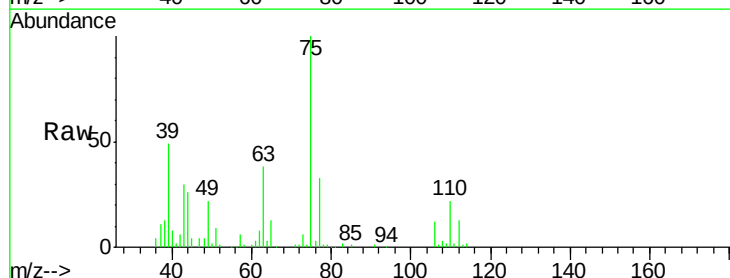
Tgt Ion: 75 Resp: 88884

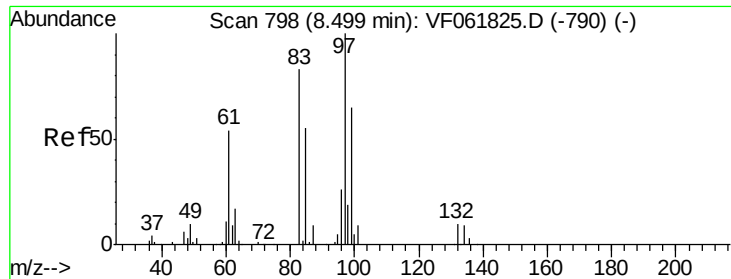
Ion Ratio Lower Upper

75 100

77 32.7 26.3 39.5

39 48.5 40.8 61.2





#55

1,1,2-Trichloroethane

Concen: 22.597 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

VF0311SBS01

Tot Ion: 97 Resp: 39942

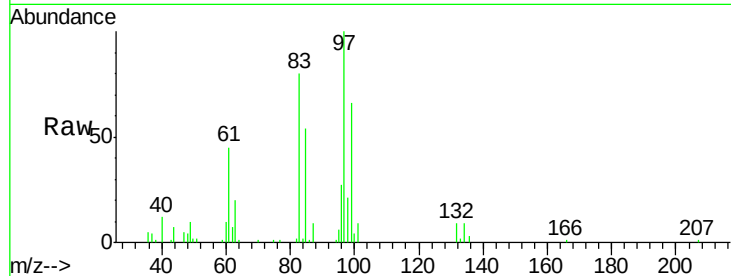
Ion Ratio Lower Upper

97 100

83 79.8 66.5 99.7

85 53.8 44.2 66.2

99 66.2 51.8 77.6

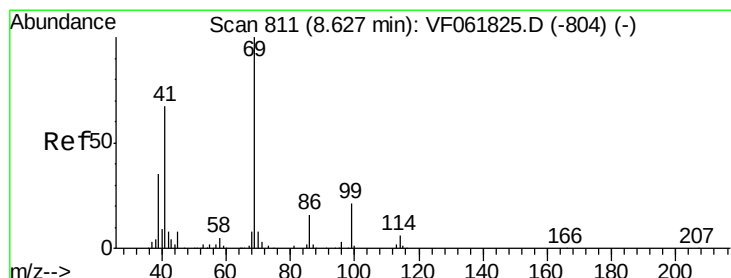
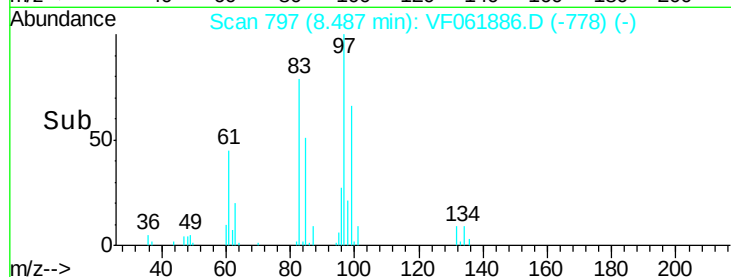
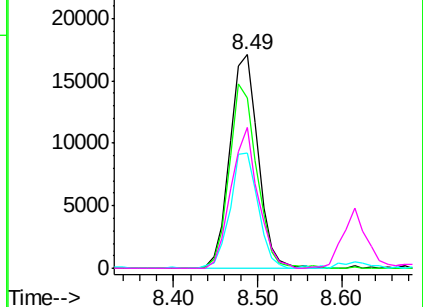


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 22.673 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

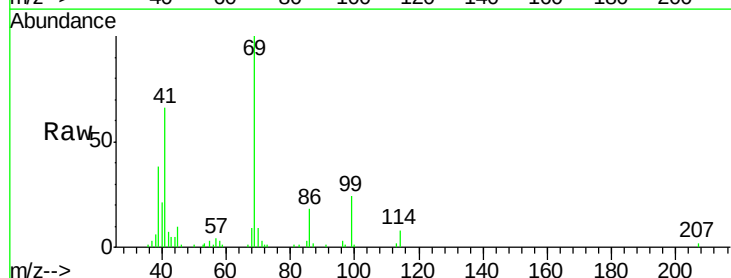
Tgt Ion: 69 Resp: 45166

Ion Ratio Lower Upper

69 100

41 66.4 53.9 80.9

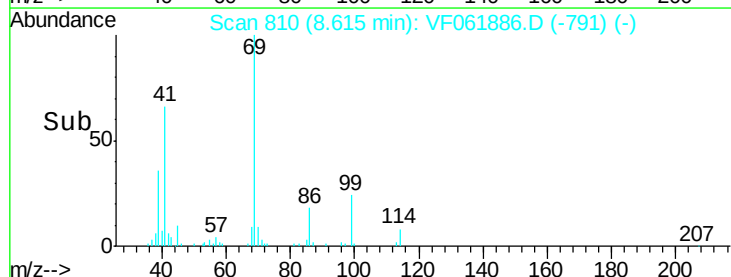
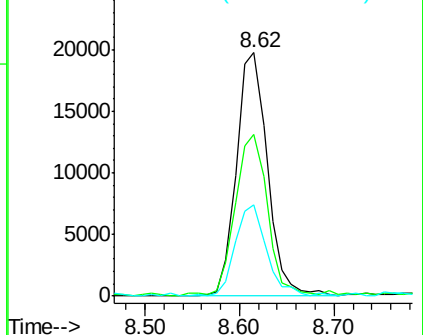
39 37.7 28.3 42.5



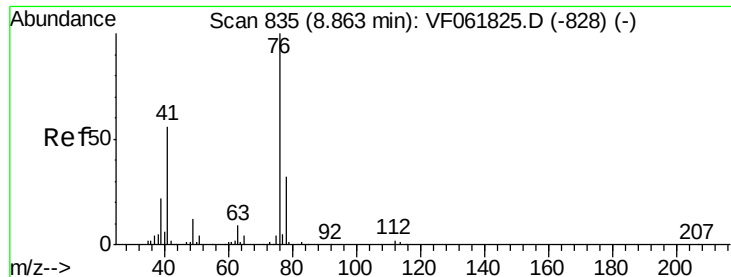
Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



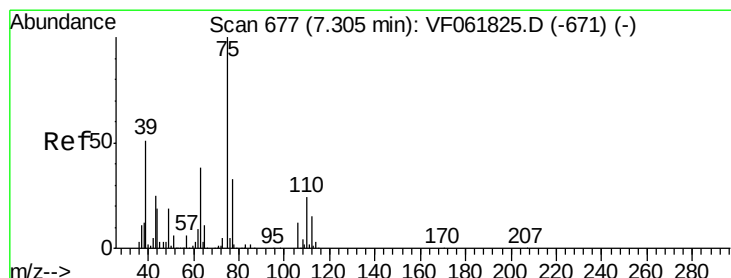
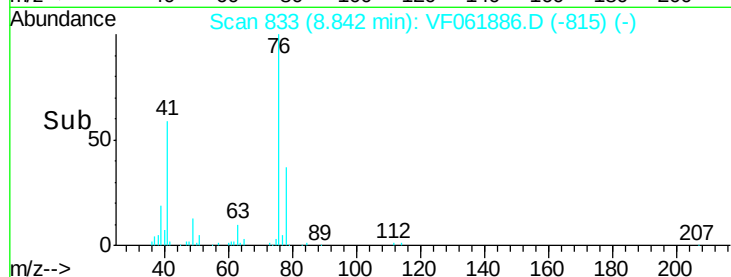
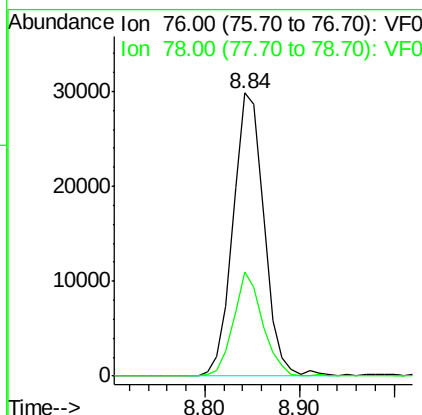
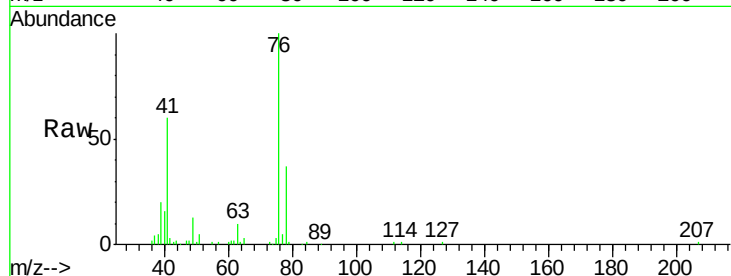




#57  
 1,3-Dichloropropane  
 Concen: 23.512 ug/l  
 RT: 8.84 min Scan# 833  
 Delta R.T. -0.02 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

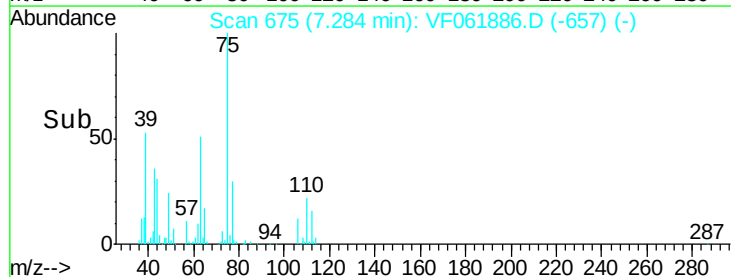
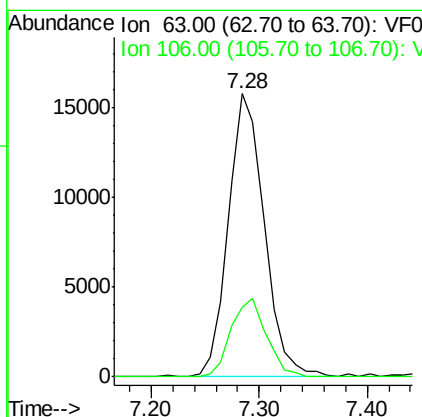
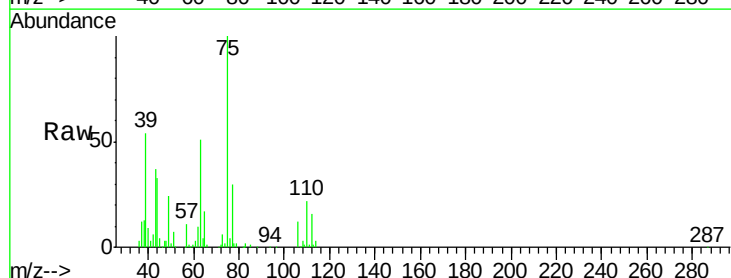
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0311SBS01

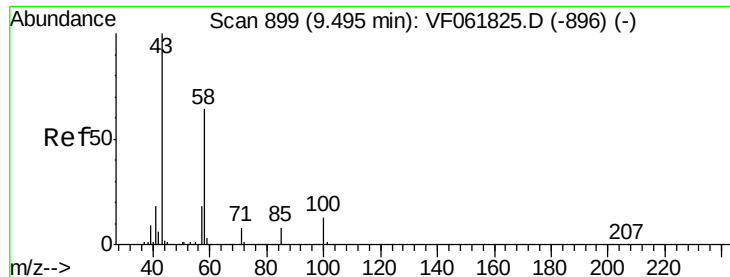
Tot Ion: 76 Resp: 67965  
 Ion Ratio Lower Upper  
 76 100  
 78 36.7 25.4 38.2



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 115.713 ug/l  
 RT: 7.28 min Scan# 675  
 Delta R.T. -0.02 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

Tgt Ion: 63 Resp: 36464  
 Ion Ratio Lower Upper  
 63 100  
 106 24.4 24.3 36.5

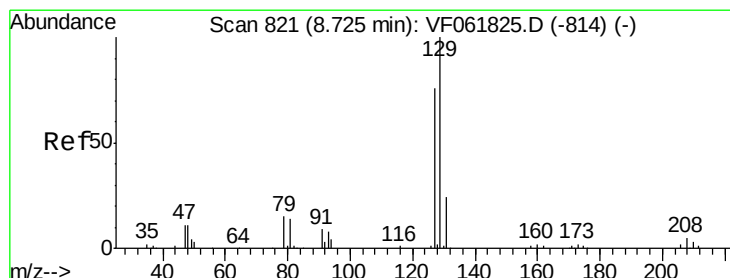
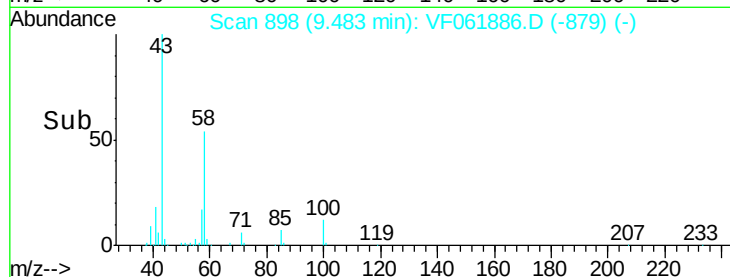
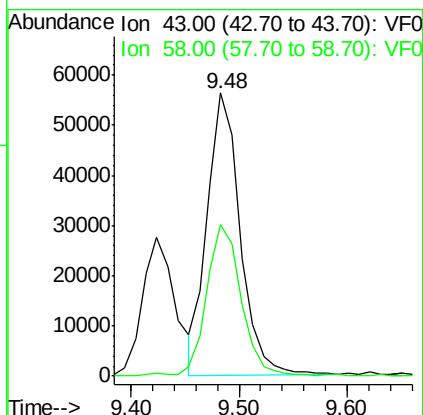
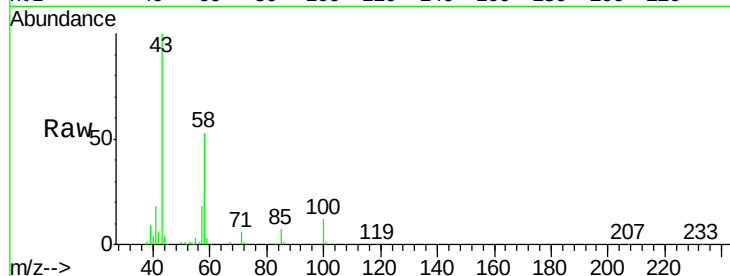




#59  
2-Hexanone  
Concen: 115.559 ug/l  
RT: 9.48 min Scan# 898  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

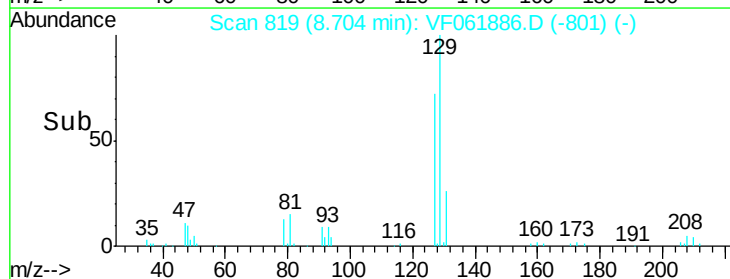
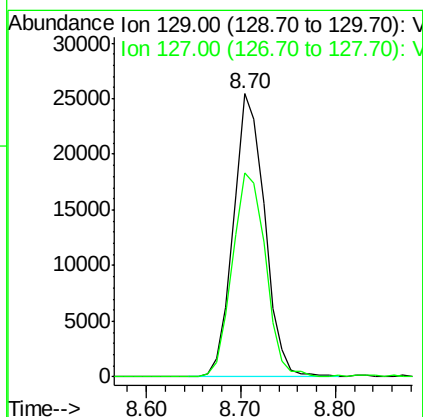
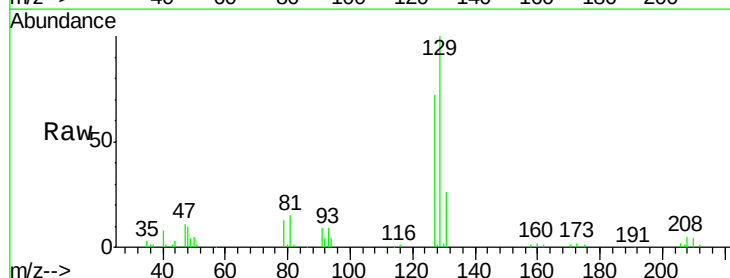
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBSD01

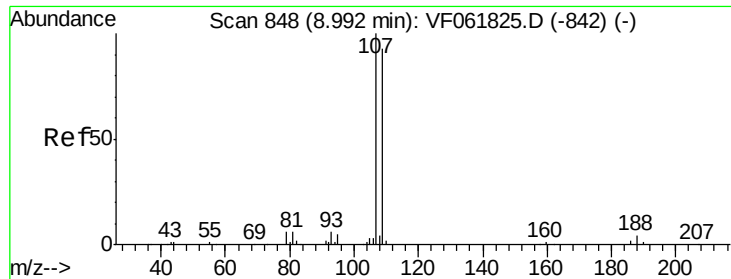
Tot Ion: 43 Resp: 118269  
Ion Ratio Lower Upper  
43 100  
58 53.5 28.8 86.4



#60  
Dibromochloromethane  
Concen: 23.170 ug/l  
RT: 8.70 min Scan# 819  
Delta R.T. -0.02 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion: 129 Resp: 58372  
Ion Ratio Lower Upper  
129 100  
127 72.0 38.2 114.6





#61

1,2-Dibromoethane

Concen: 21.837 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

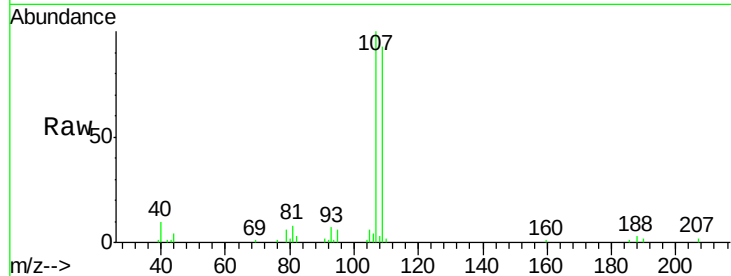
VF0311SBSD01

Tot Ion:107 Resp: 42446

Ion Ratio Lower Upper

107 100

109 93.3 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.98

20000

15000

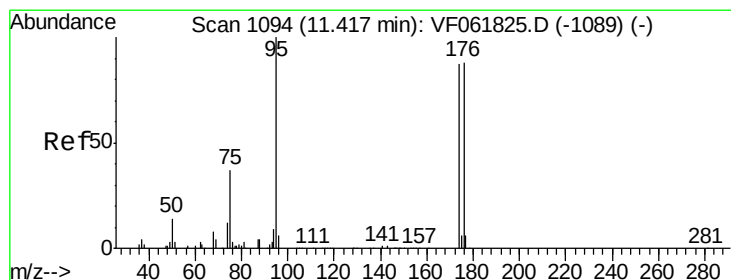
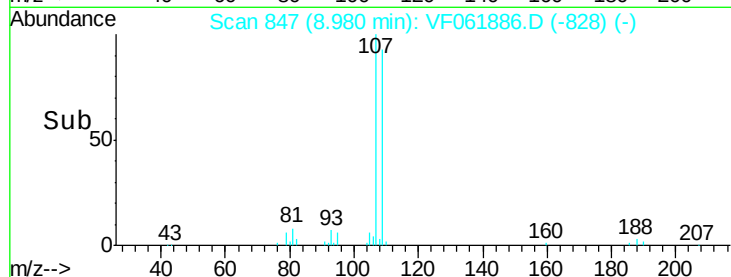
10000

5000

0

8.90 9.00 9.10

Time-->



#62

4-Bromofluorobenzene

Concen: 49.687 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

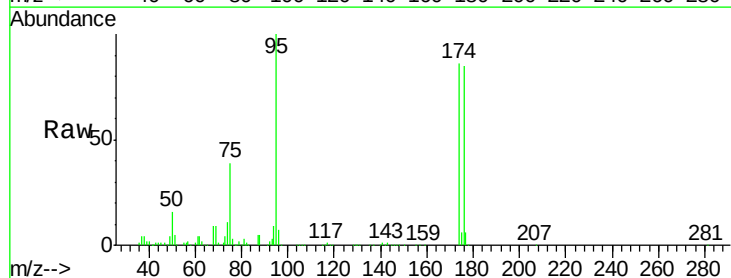
Tgt Ion: 95 Resp: 169564

Ion Ratio Lower Upper

95 100

174 86.3 0.0 174.0

176 84.6 0.0 175.2



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

11.41

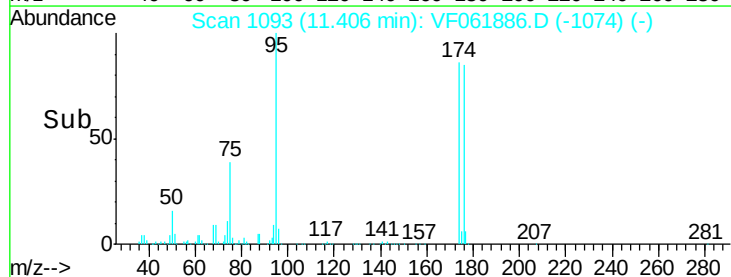
100000

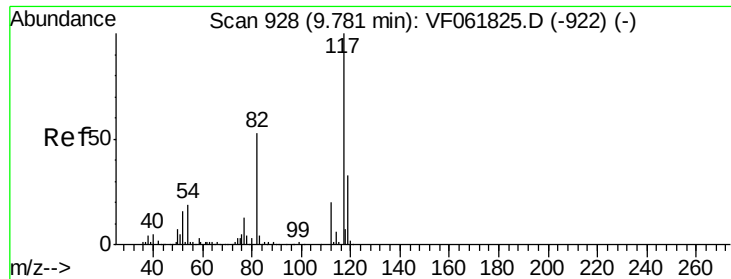
50000

0

11.30 11.40 11.50

Time-->

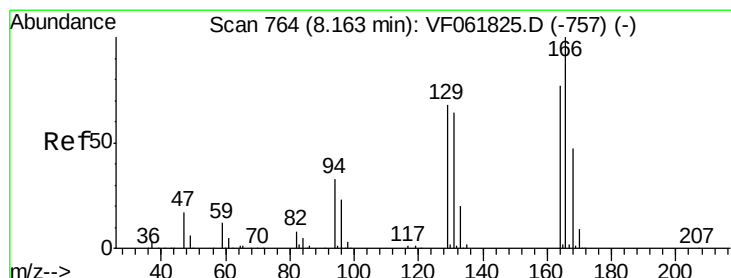
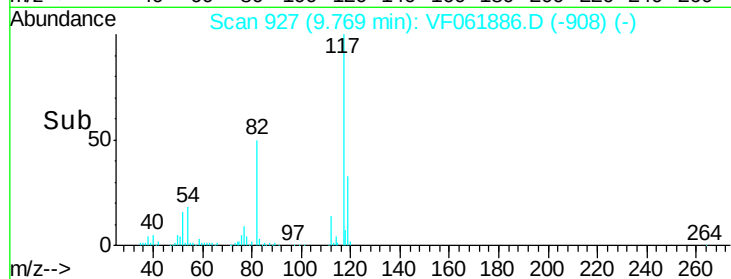
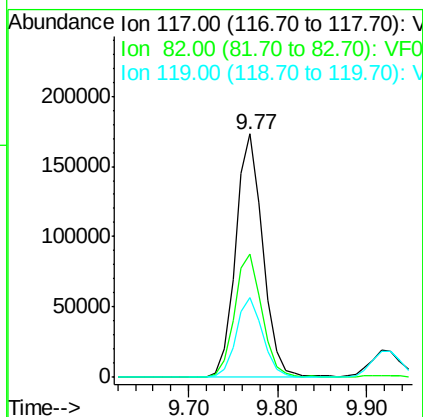
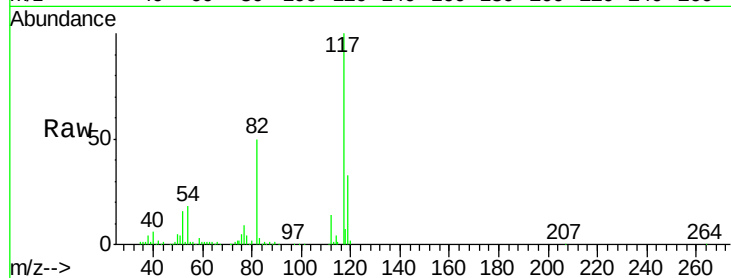




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.77 min Scan# 927  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

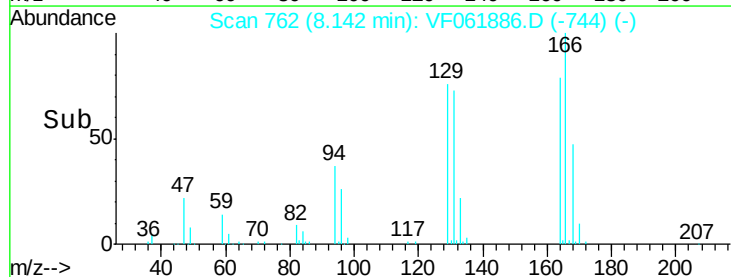
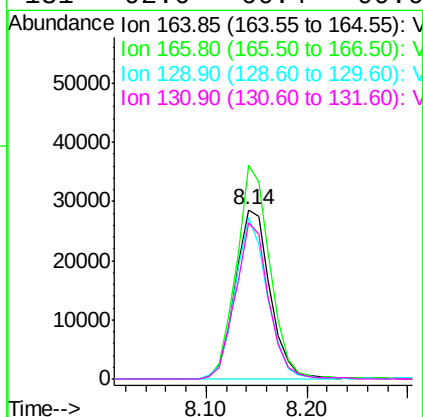
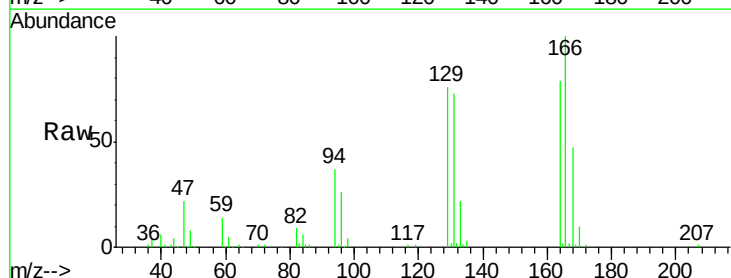
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBS01

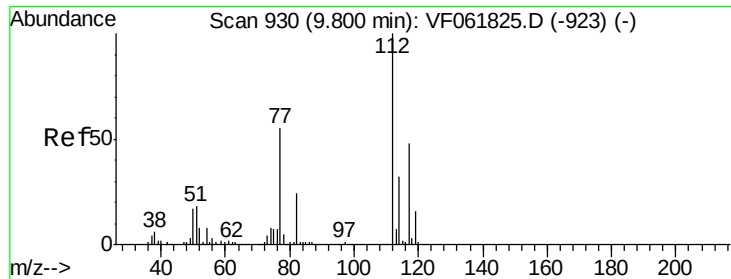
Tot Ion:117 Resp: 367893  
Ion Ratio Lower Upper  
117 100  
82 50.4 42.6 63.8  
119 32.7 26.0 39.0



#64  
Tetrachloroethene  
Concen: 24.243 ug/l  
RT: 8.14 min Scan# 762  
Delta R.T. -0.02 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion:164 Resp: 68531  
Ion Ratio Lower Upper  
164 100  
166 126.0 103.4 155.0  
129 95.5 69.9 104.9  
131 92.0 66.4 99.6

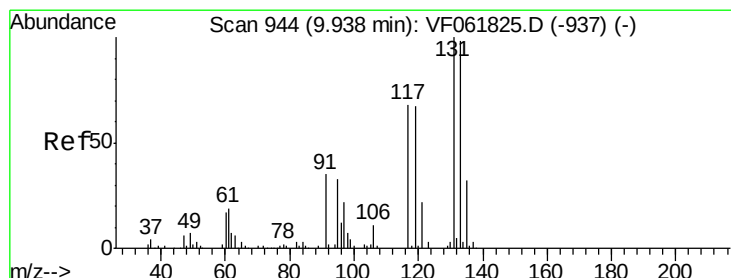
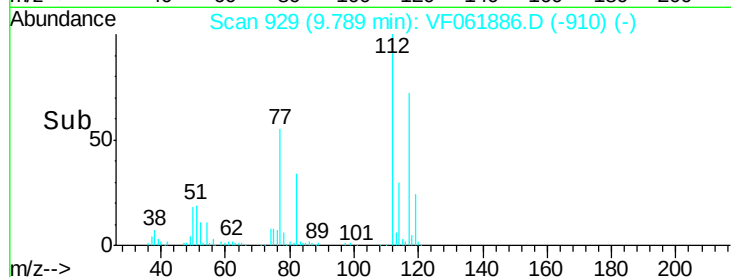
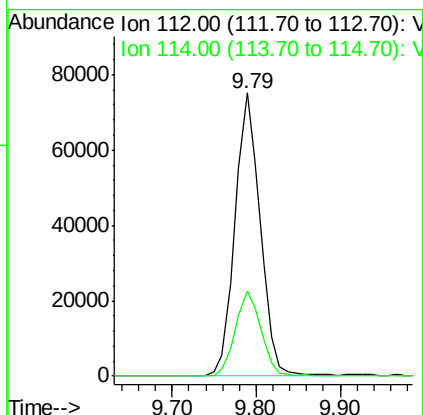
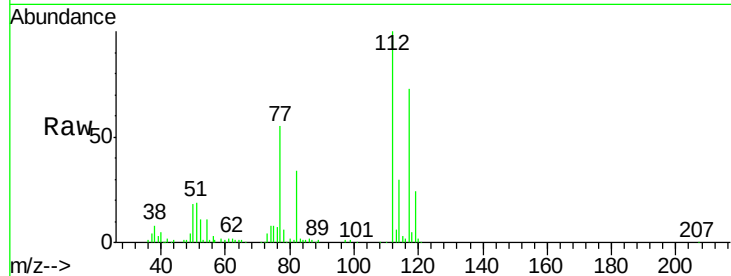




#65  
Chlorobenzene  
Concen: 22.194 ug/l  
RT: 9.79 min Scan# 929  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

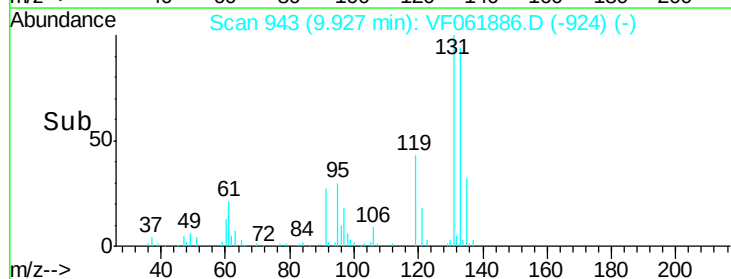
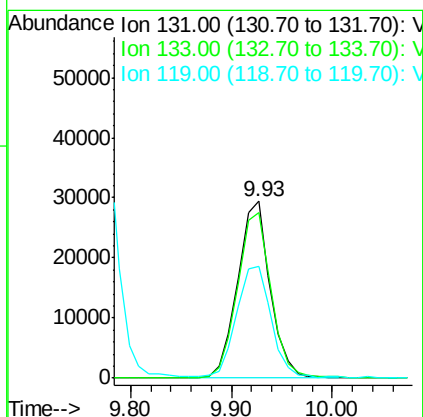
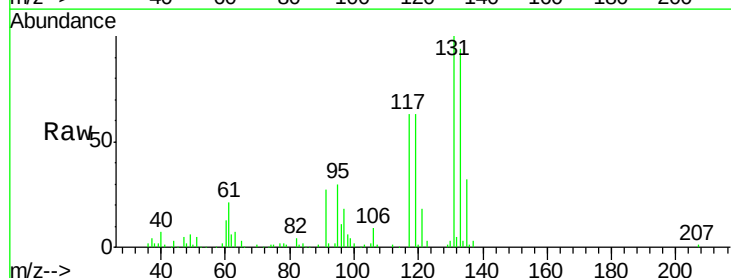
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBS01

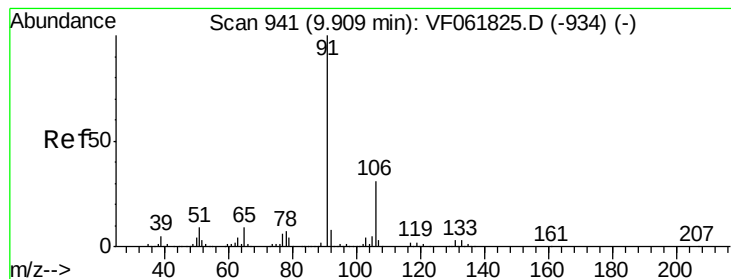
Tot Ion:112 Resp: 156871  
Ion Ratio Lower Upper  
112 100  
114 30.2 25.5 38.3



#66  
1,1,1,2-Tetrachloroethane  
Concen: 24.067 ug/l  
RT: 9.93 min Scan# 943  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion:131 Resp: 65908  
Ion Ratio Lower Upper  
131 100  
133 93.6 48.9 146.7  
119 63.5 33.6 100.8





#67

Ethyl Benzene

Concen: 23.264 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

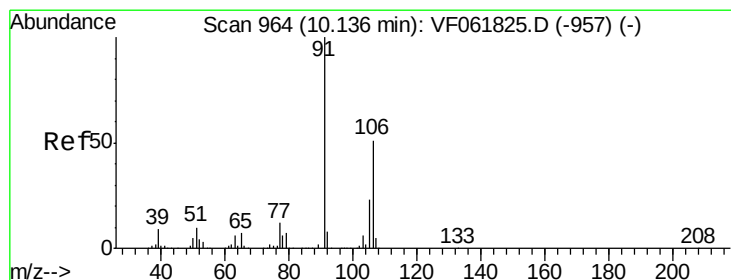
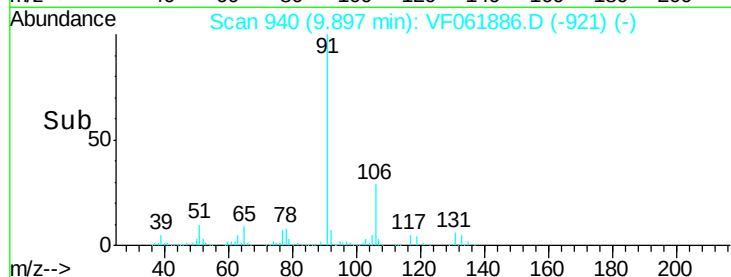
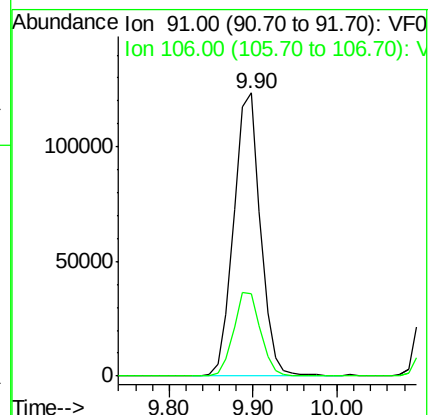
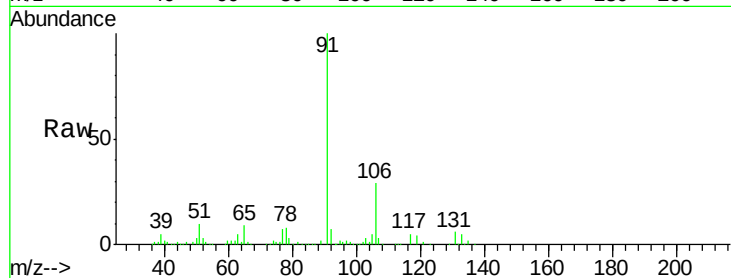
VF0311SBSD01

Tot Ion: 91 Resp: 272542

Ion Ratio Lower Upper

91 100

106 29.3 25.0 37.4



#68

m/p-Xylenes

Concen: 44.060 ug/l

RT: 10.12 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF061886.D

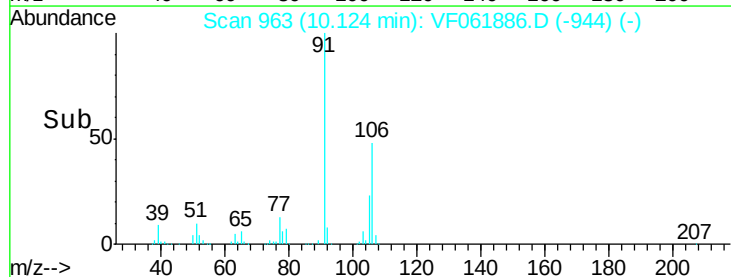
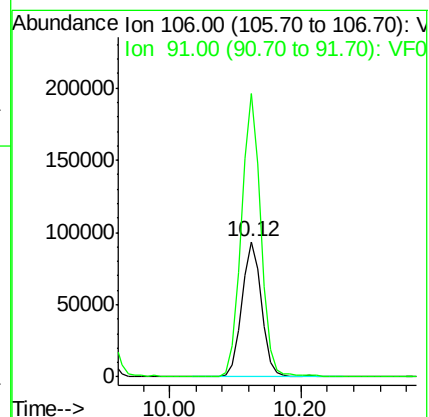
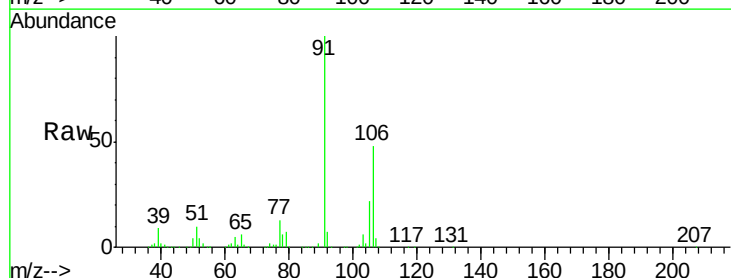
Acq: 11 Mar 2019 13:36

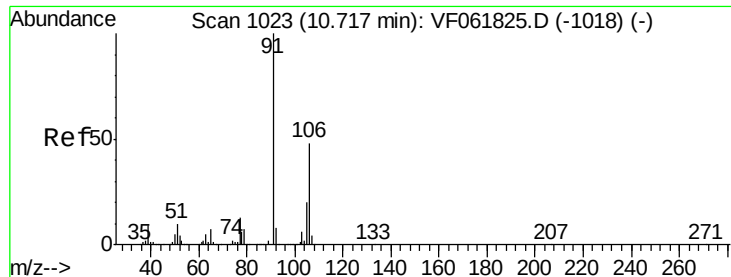
Tgt Ion: 106 Resp: 197737

Ion Ratio Lower Upper

106 100

91 209.1 157.5 236.3

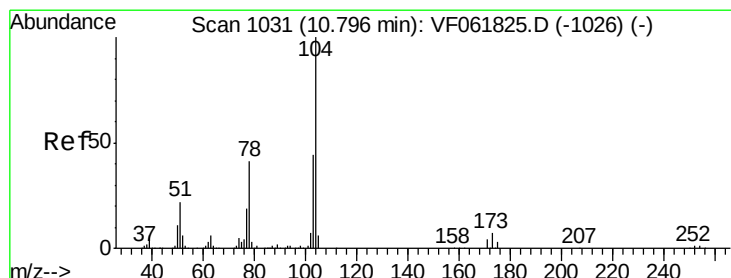
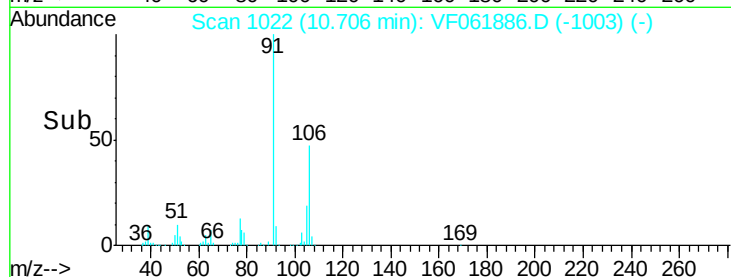
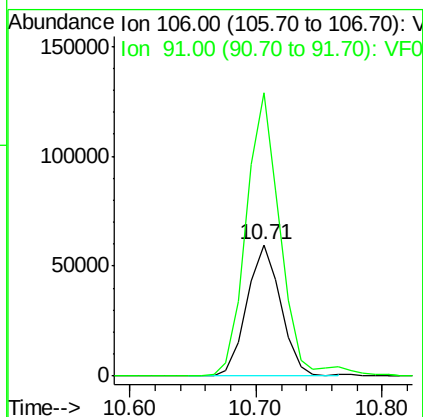
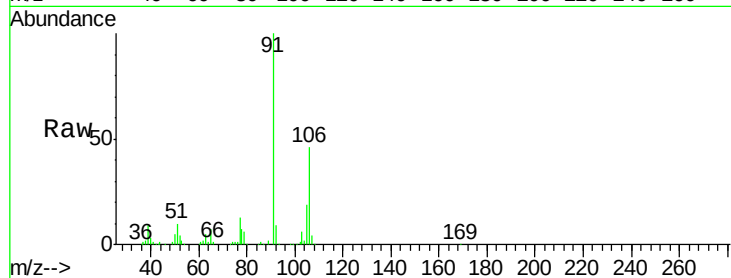




#69  
o-Xylene  
Concen: 23.227 ug/l  
RT: 10.71 min Scan# 1022  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

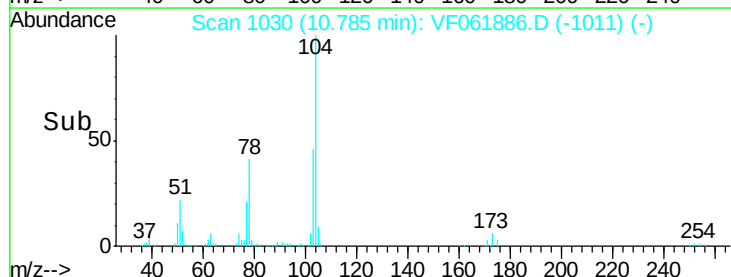
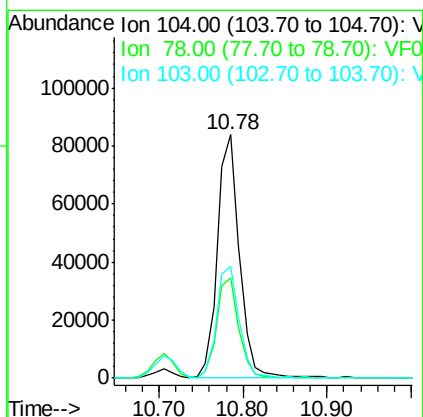
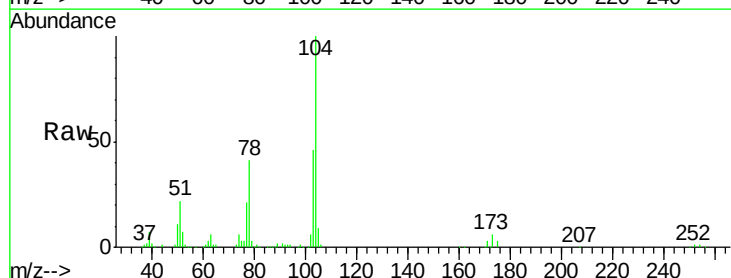
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBS01

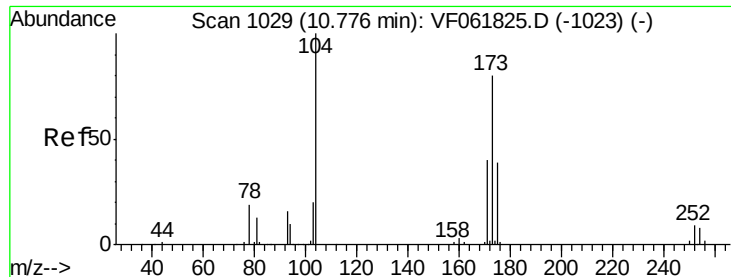
Tot Ion:106 Resp: 112246  
Ion Ratio Lower Upper  
106 100  
91 215.2 103.5 310.3



#70  
Styrene  
Concen: 22.437 ug/l  
RT: 10.78 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion:104 Resp: 152591  
Ion Ratio Lower Upper  
104 100  
78 41.4 33.3 49.9  
103 45.7 35.4 53.0





#71

Bromoform

Concen: 22.560 ug/l

RT: 10.76 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

VF0311SBS01

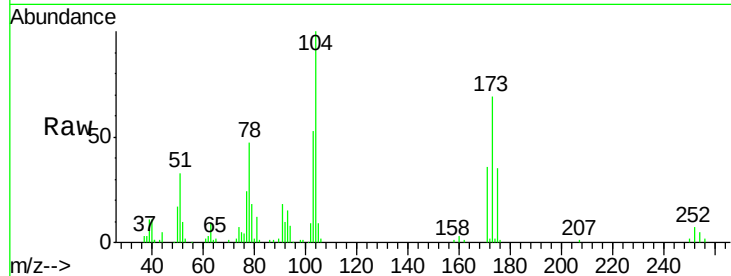
Tot Ion:173 Resp: 32651

Ion Ratio Lower Upper

173 100

175 48.7 24.5 73.5

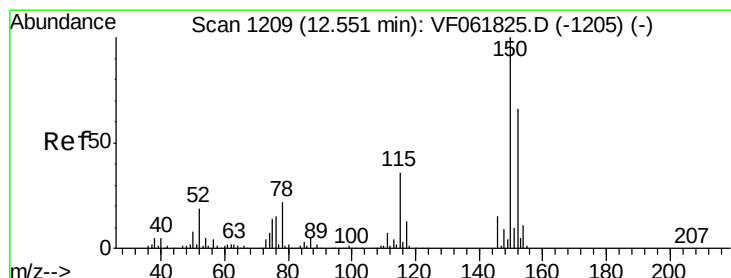
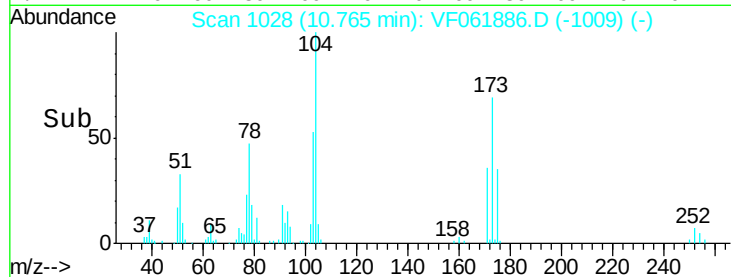
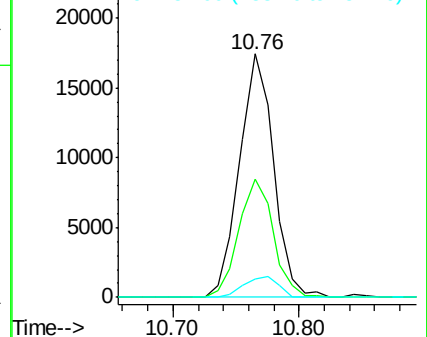
254 7.5 8.0 12.0#



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: 12.55 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

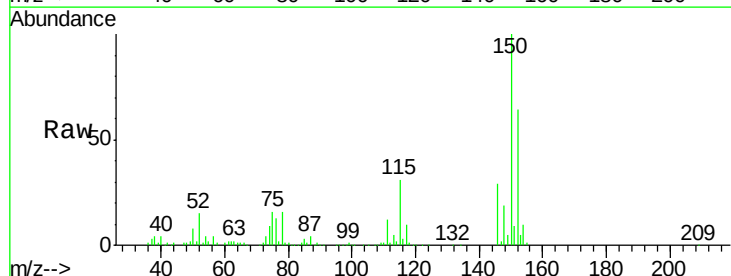
Tgt Ion:152 Resp: 198682

Ion Ratio Lower Upper

152 100

115 48.0 27.7 83.1

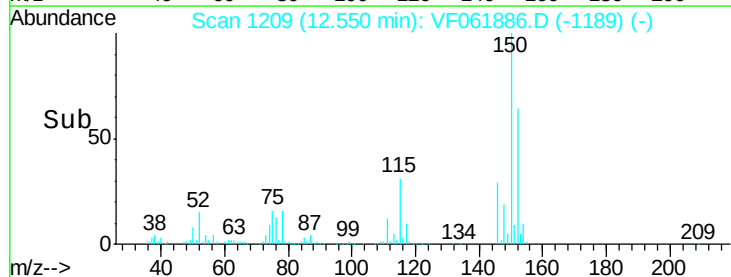
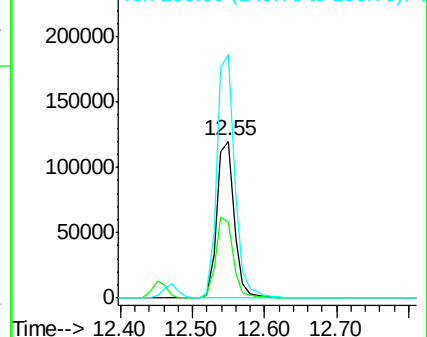
150 155.1 0.0 304.2



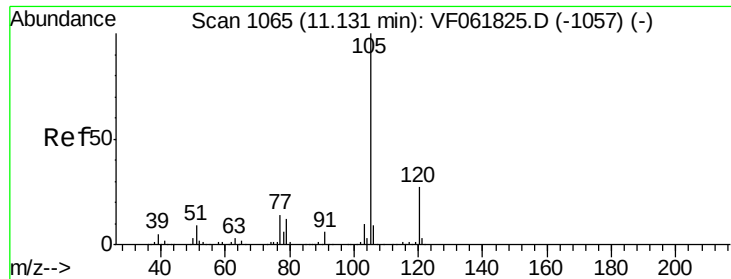
Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V







#73

Isopropylbenzene

Concen: 24.136 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

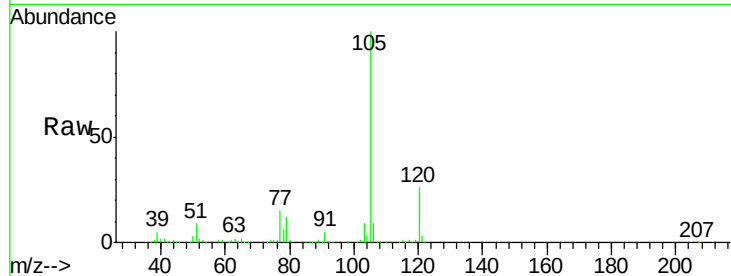
VF0311SBSD01

Tot Ion:105 Resp: 330143

Ion Ratio Lower Upper

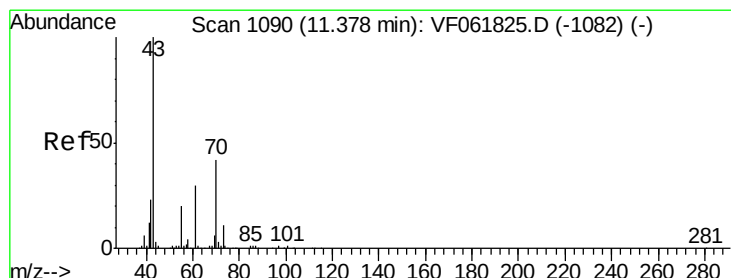
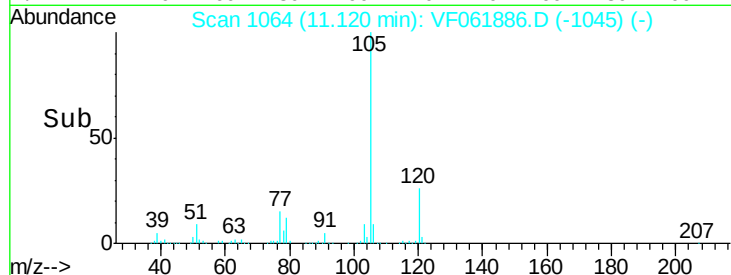
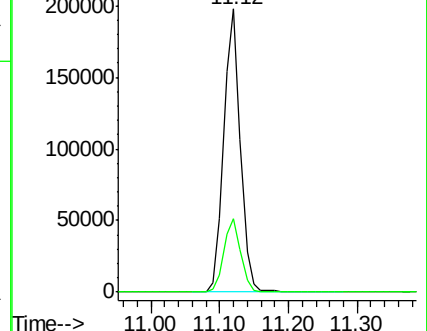
105 100

120 26.1 13.7 41.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 23.934 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Tgt Ion: 43 Resp: 75367

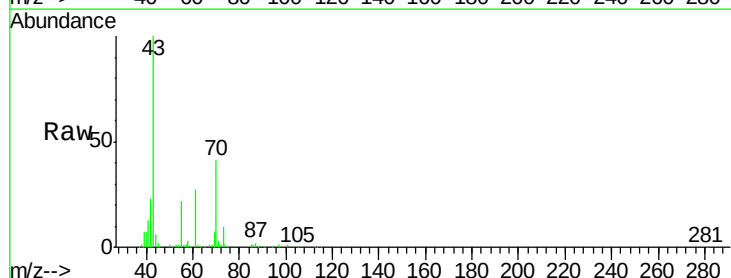
Ion Ratio Lower Upper

43 100

70 40.8 33.4 50.0

55 22.1 16.3 24.5

61 26.8 24.0 36.0

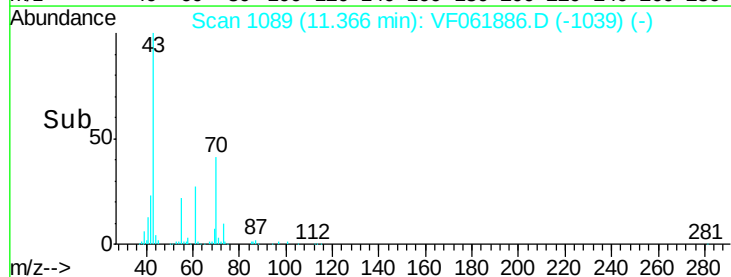
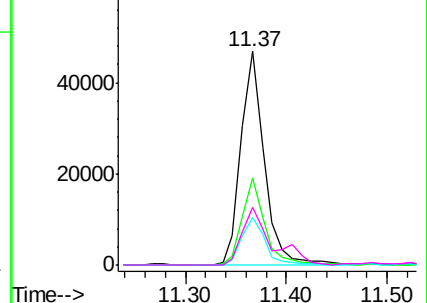


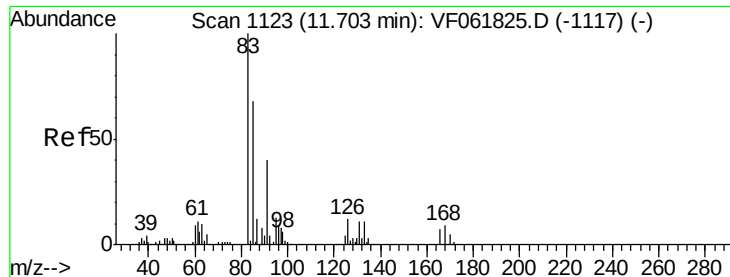
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 23.537 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

VF0311SBS01

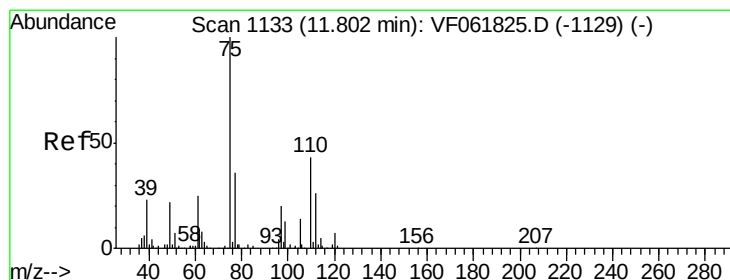
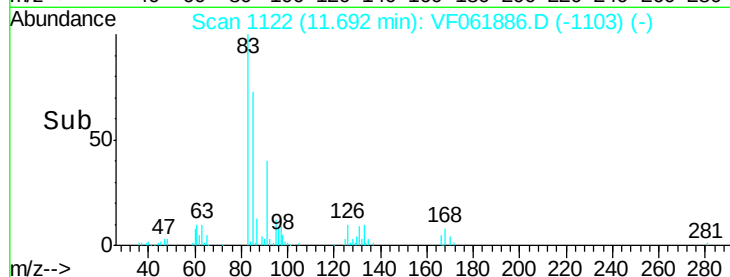
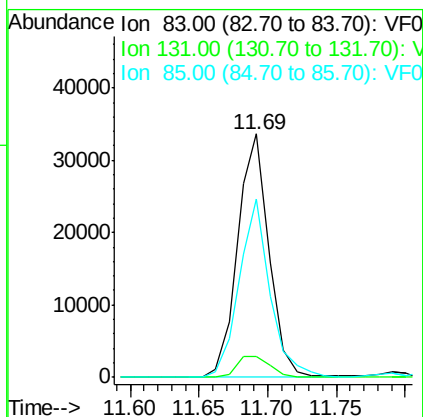
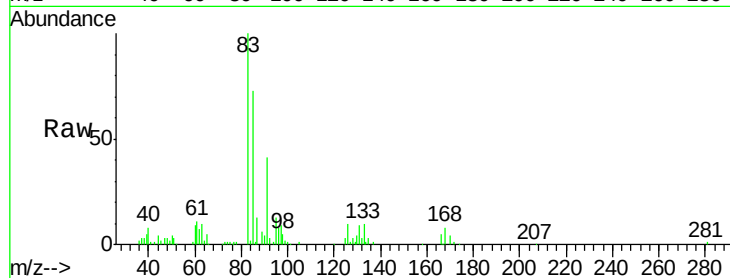
Tot Ion: 83 Resp: 53509

Ion Ratio Lower Upper

83 100

131 8.5 5.5 16.7

85 73.5 34.2 102.6



#76

1,2,3-Trichloropropane

Concen: 23.095 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF061886.D

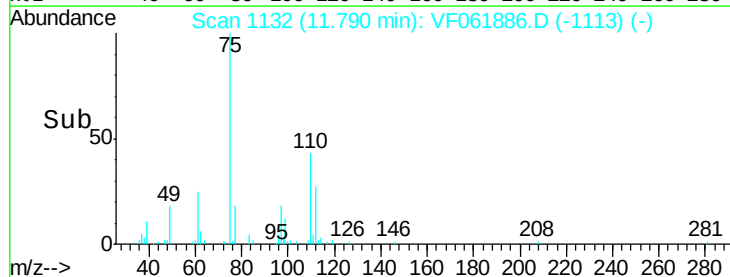
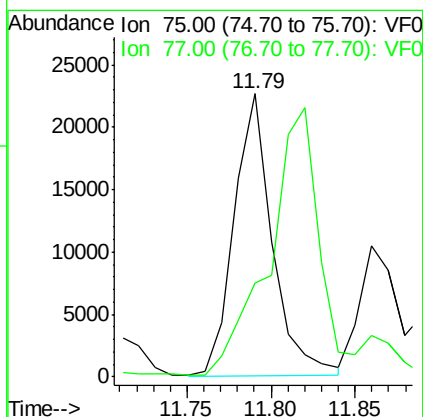
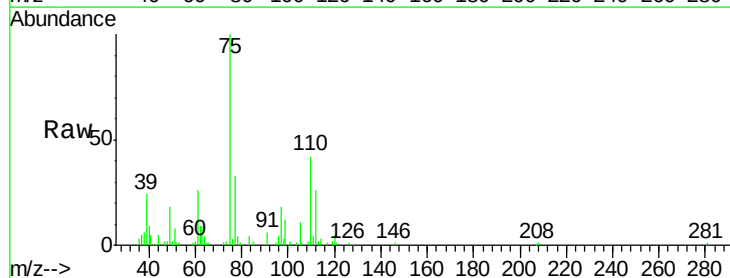
Acq: 11 Mar 2019 13:36

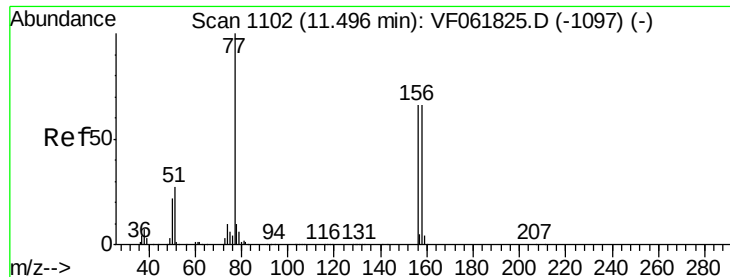
Tgt Ion: 75 Resp: 35834

Ion Ratio Lower Upper

75 100

77 33.3 18.1 54.4





#77

Bromobenzene

Concen: 22.214 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

VF0311SBS01

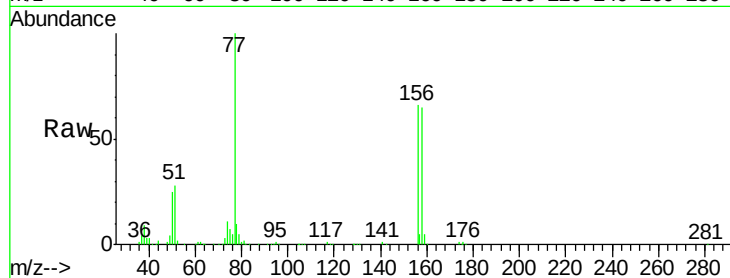
Tot Ion:156 Resp: 73126

Ion Ratio Lower Upper

156 100

77 152.5 75.7 227.1

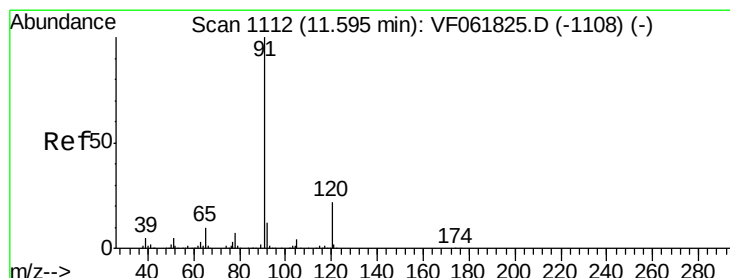
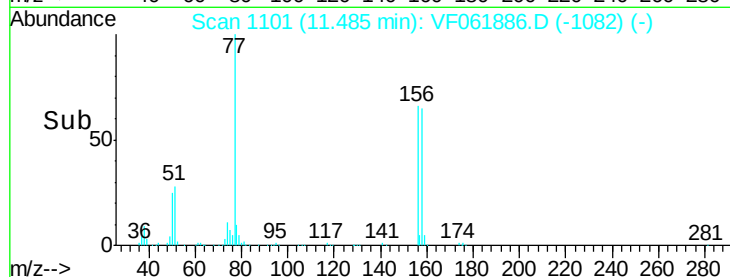
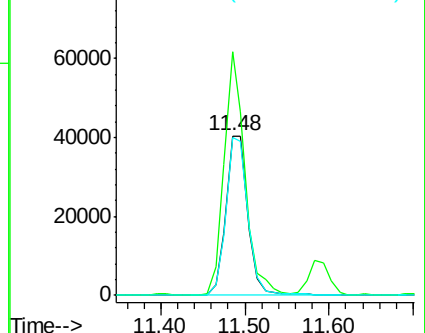
158 98.8 50.0 150.1



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 23.719 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VF061886.D

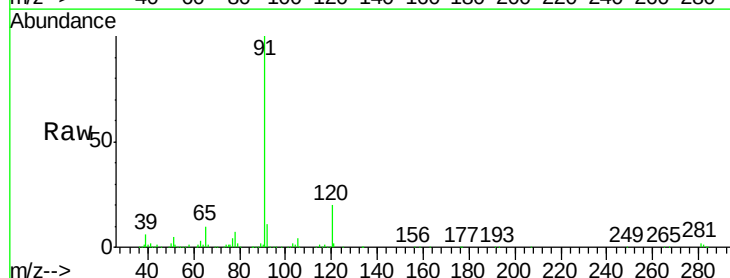
Acq: 11 Mar 2019 13:36

Tgt Ion: 91 Resp: 366384

Ion Ratio Lower Upper

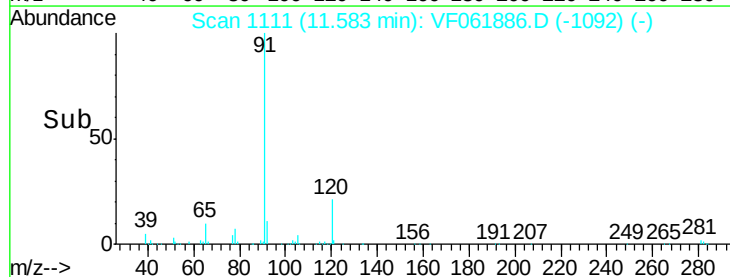
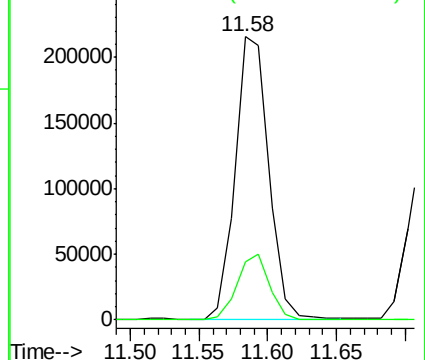
91 100

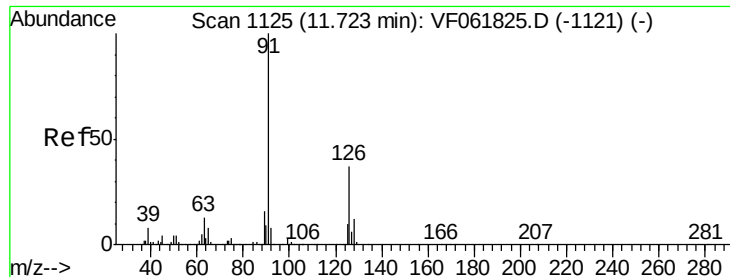
120 20.5 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 23.376 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

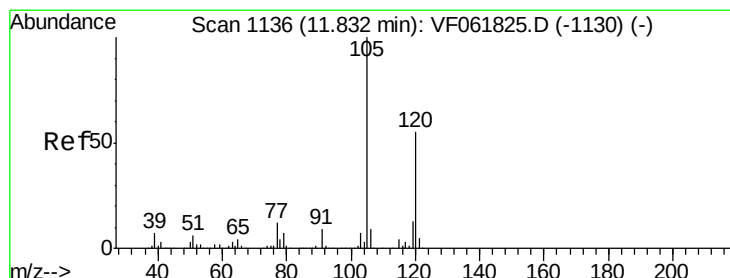
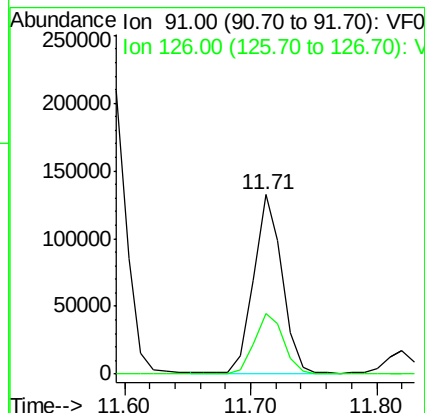
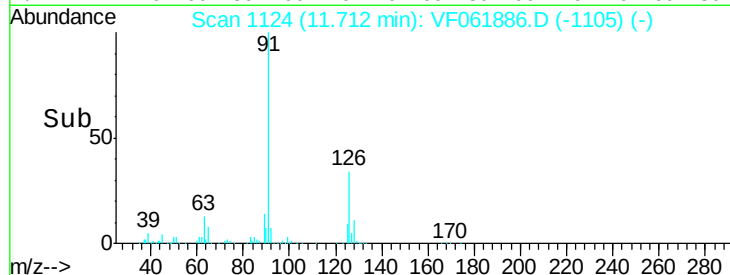
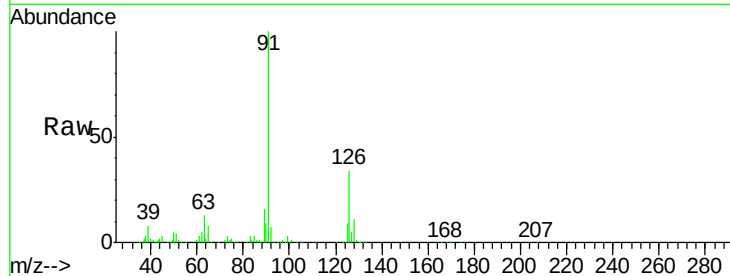
VF0311SBSD01

Tot Ion: 91 Resp: 206434

Ion Ratio Lower Upper

91 100

126 34.0 18.1 54.4



#80

1,3,5-Trimethylbenzene

Concen: 23.611 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061886.D

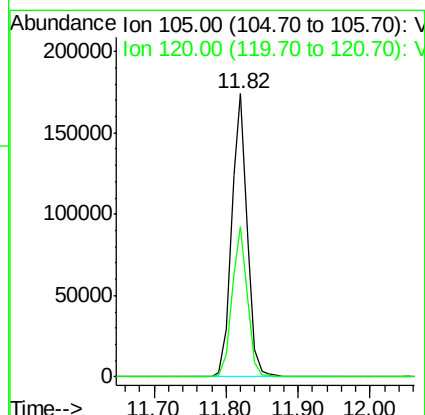
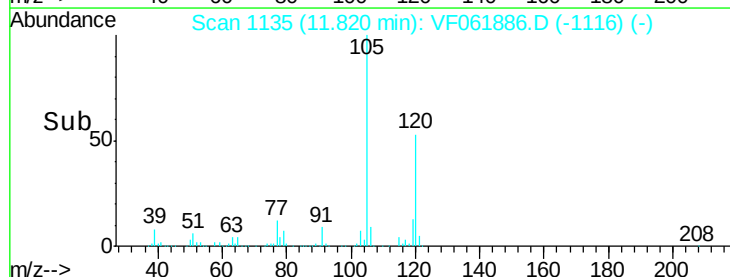
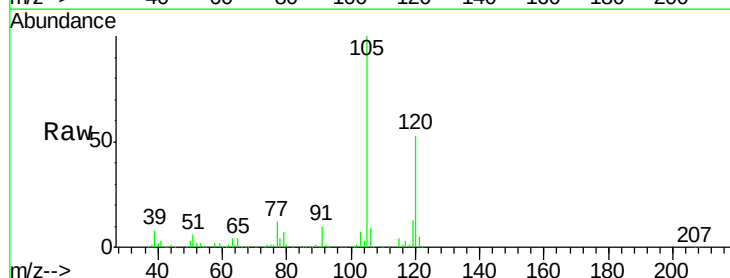
Acq: 11 Mar 2019 13:36

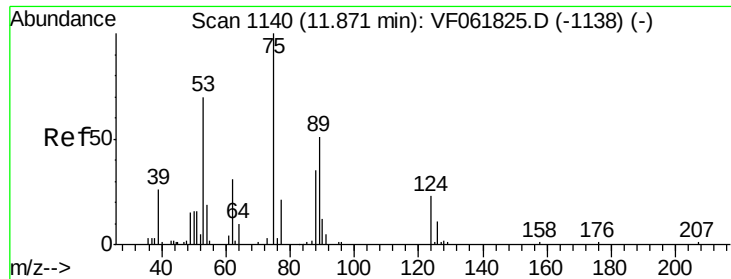
Tgt Ion:105 Resp: 259291

Ion Ratio Lower Upper

105 100

120 52.9 27.4 82.2





#81

trans-1,4-Dichloro-2-butene

Concen: 29.655 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

VF0311SBS01

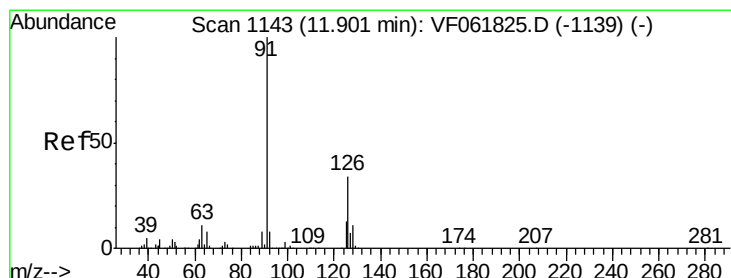
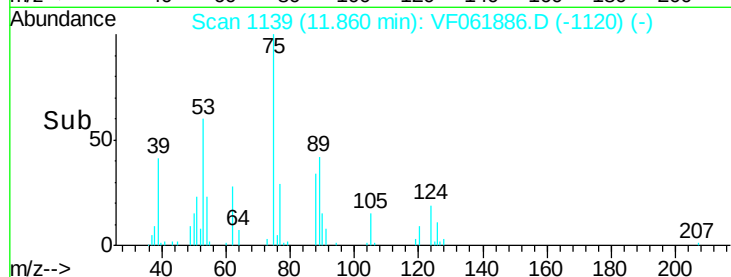
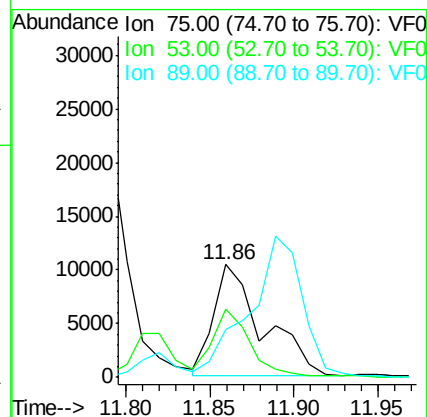
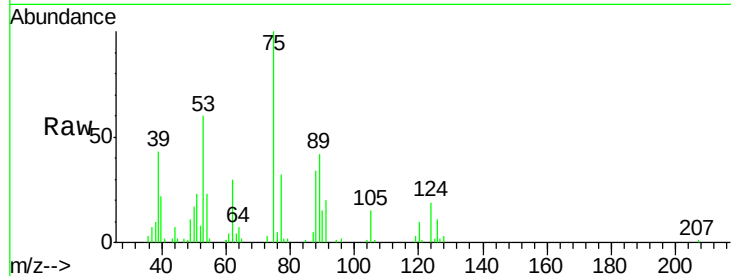
Tot Ion: 75 Resp: 21040

Ion Ratio Lower Upper

75 100

53 60.1 58.6 88.0

89 42.3 41.4 62.0



#82

4-Chlorotoluene

Concen: 23.372 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF061886.D

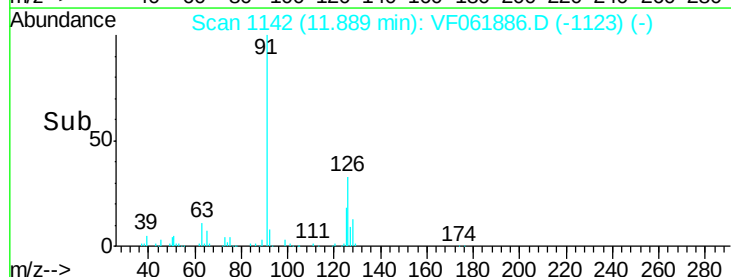
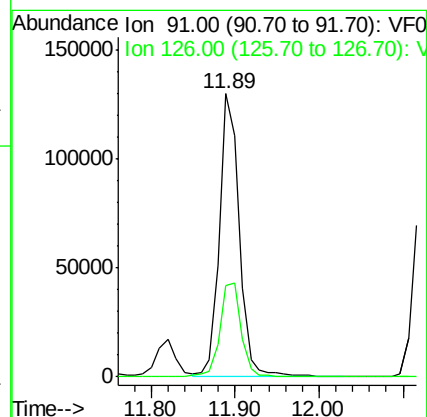
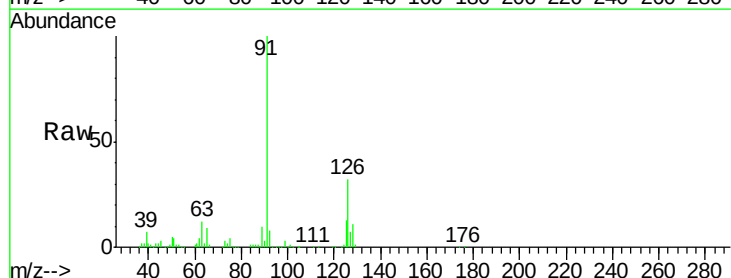
Acq: 11 Mar 2019 13:36

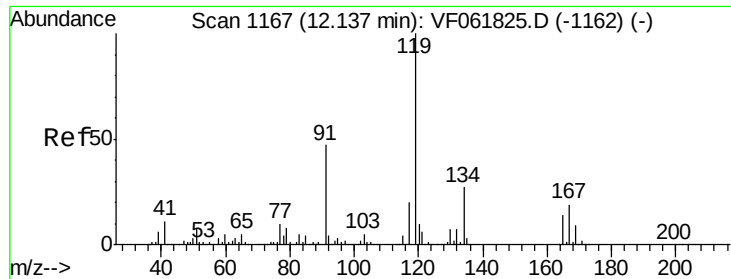
Tgt Ion: 91 Resp: 211120

Ion Ratio Lower Upper

91 100

126 32.2 17.0 50.9

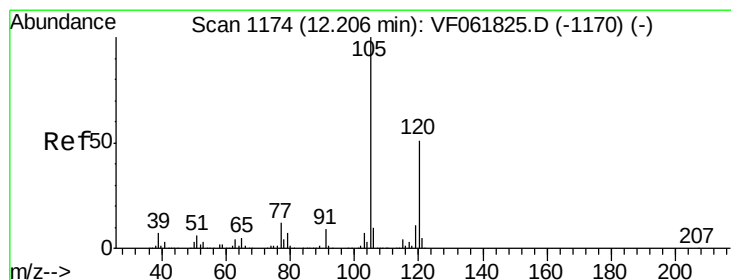
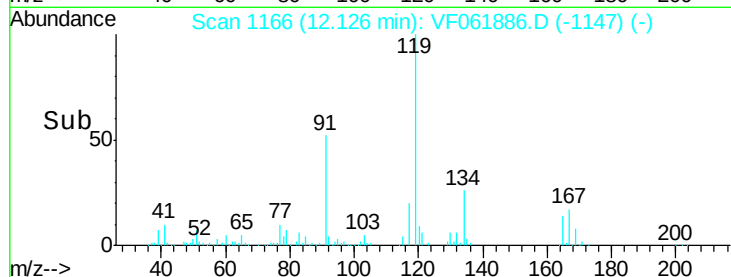
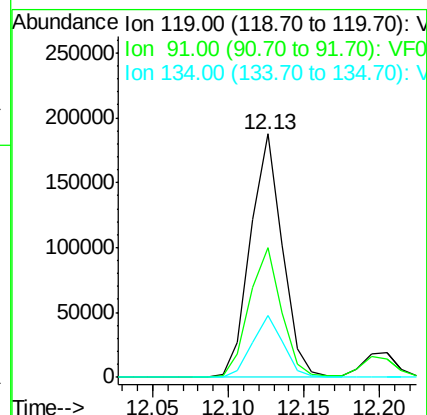
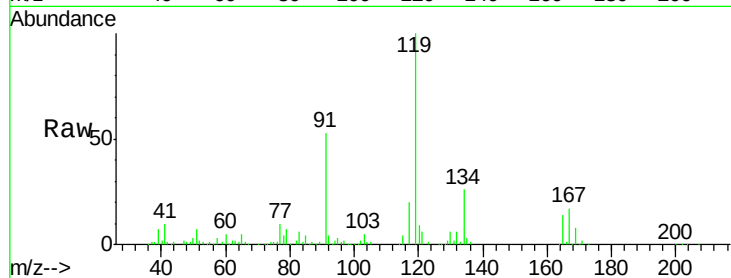




#83  
 tert-Butylbenzene  
 Concen: 23.859 ug/l  
 RT: 12.13 min Scan# 1166  
 Delta R.T. -0.01 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

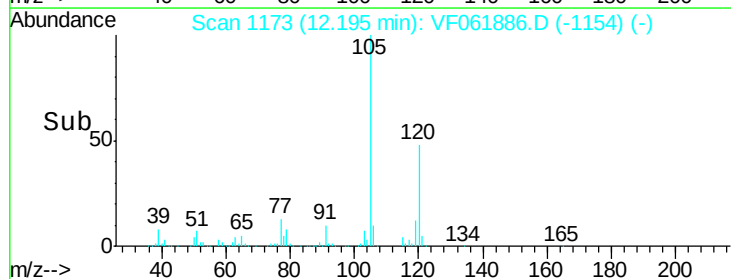
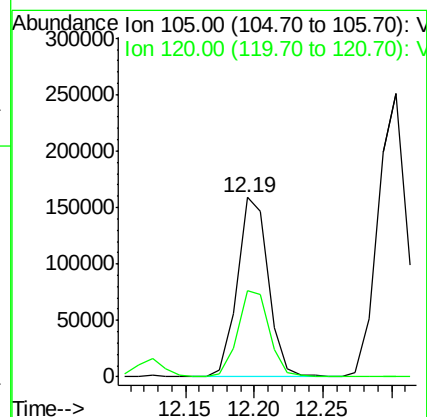
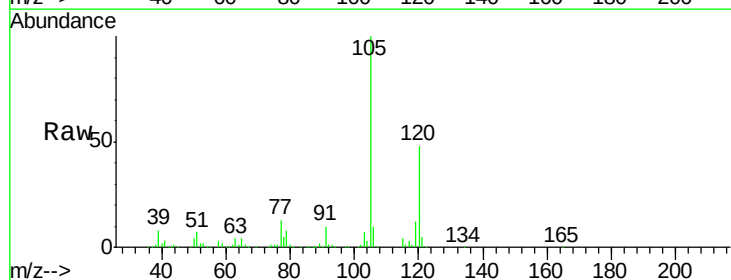
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0311SBS01

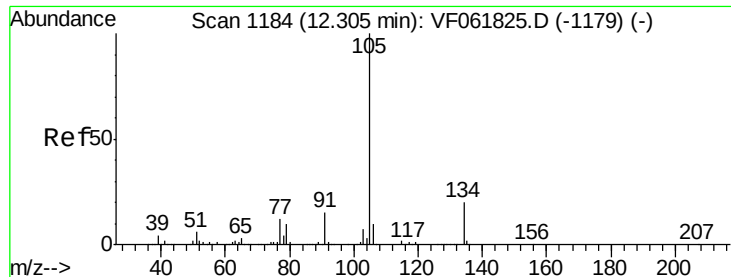
Tot Ion:119 Resp: 278227  
 Ion Ratio Lower Upper  
 119 100  
 91 53.3 23.5 70.5  
 134 25.6 13.3 39.8



#84  
 1,2,4-Trimethylbenzene  
 Concen: 23.097 ug/l  
 RT: 12.19 min Scan# 1173  
 Delta R.T. -0.01 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

Tgt Ion:105 Resp: 248649  
 Ion Ratio Lower Upper  
 105 100  
 120 48.3 25.8 77.4





#85

sec-Butylbenzene

Concen: 24.521 ug/l

RT: 12.30 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA\_F

ClientSampleId :

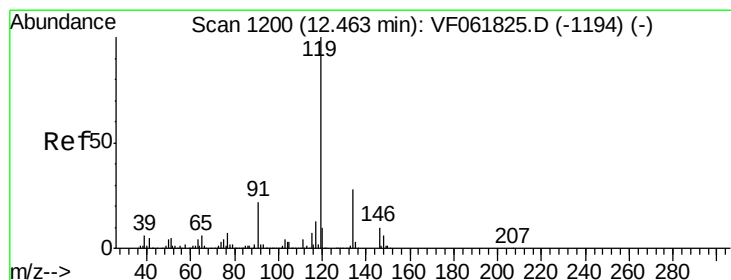
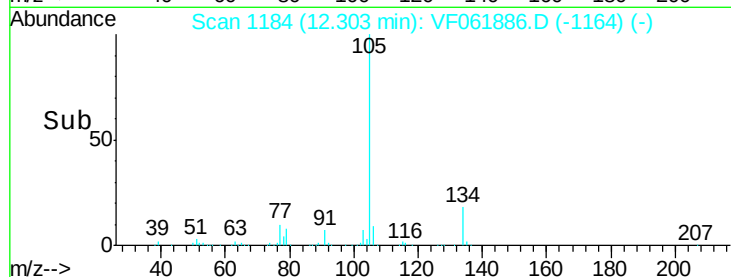
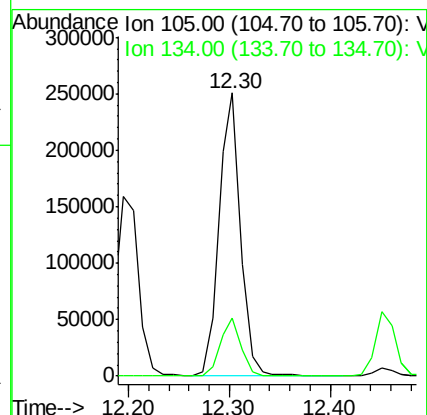
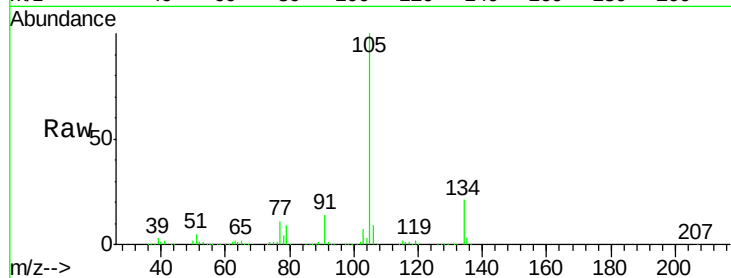
VF0311SBS01

Tot Ion:105 Resp: 372110

Ion Ratio Lower Upper

105 100

134 20.5 9.8 29.5



#86

p-Isopropyltoluene

Concen: 23.467 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

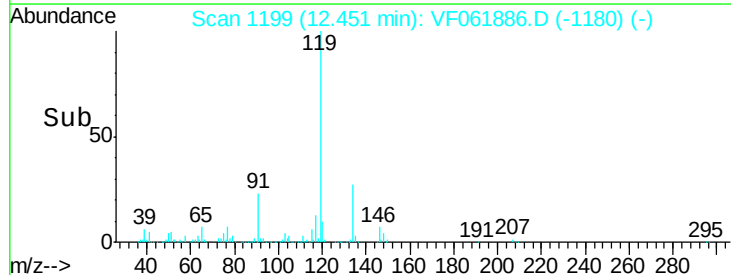
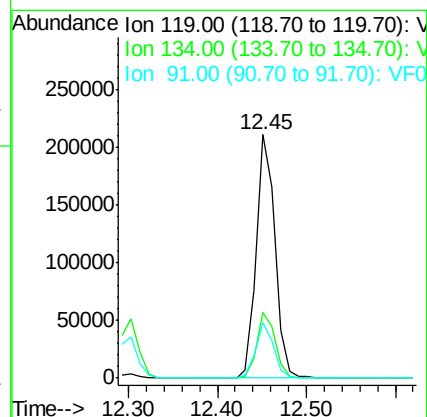
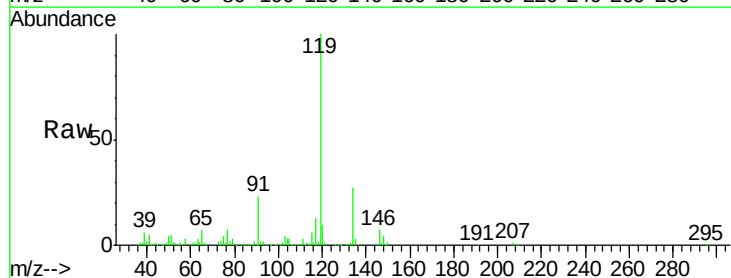
Tgt Ion:119 Resp: 302696

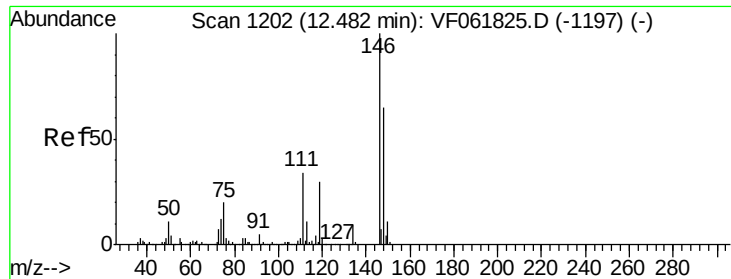
Ion Ratio Lower Upper

119 100

134 27.1 14.0 42.0

91 23.0 11.1 33.3

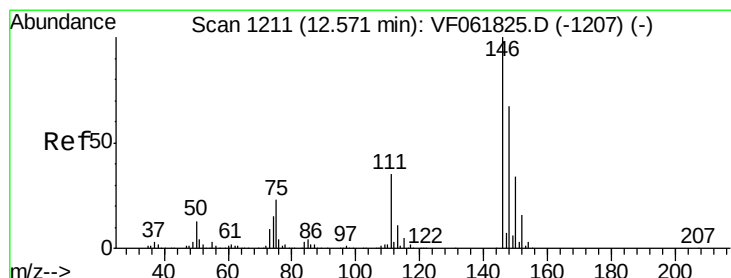
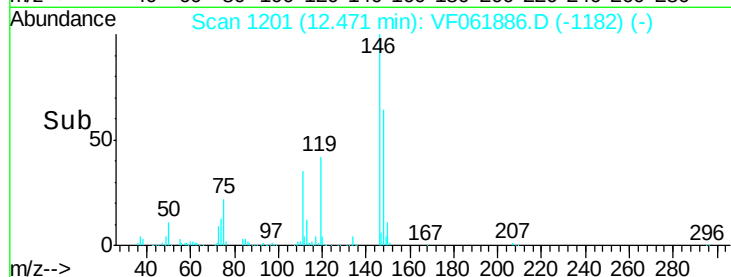
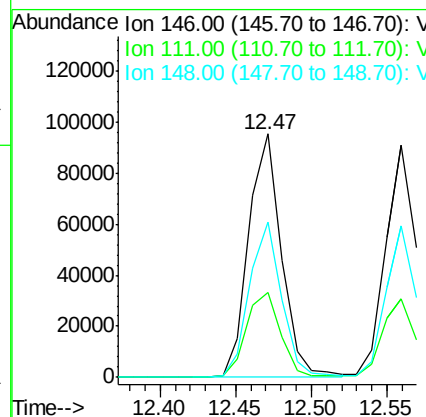
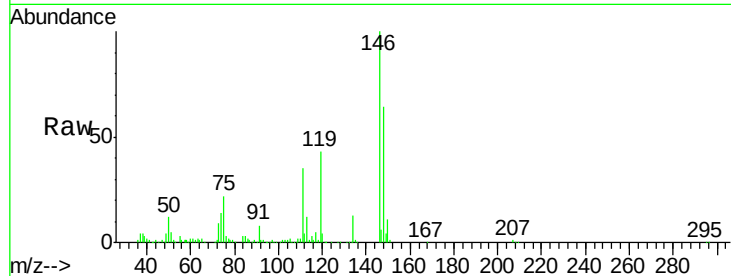




#87  
 1,3-Dichlorobenzene  
 Concen: 23.173 ug/l  
 RT: 12.47 min Scan# 1201  
 Delta R.T. -0.01 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

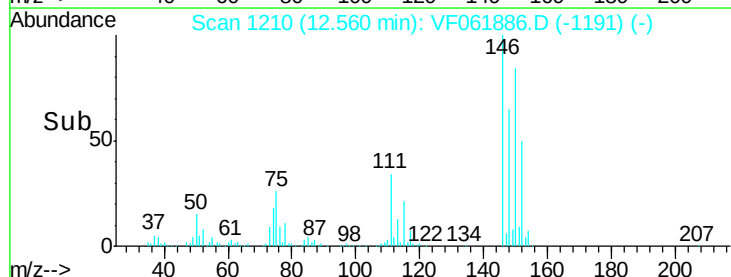
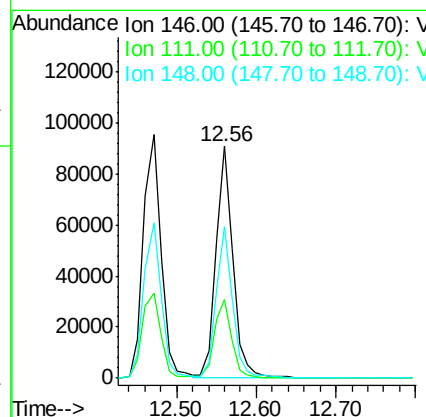
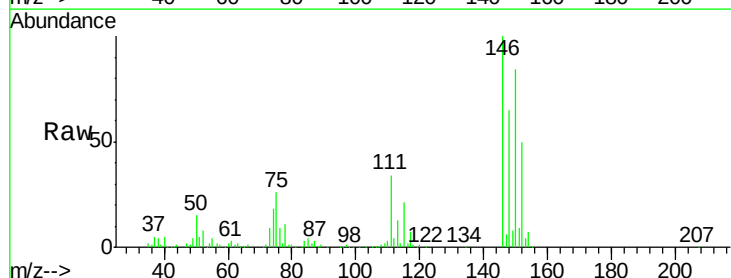
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0311SBSD01

Tot Ion:146 Resp: 144845  
 Ion Ratio Lower Upper  
 146 100  
 111 35.0 17.0 51.0  
 148 63.7 32.5 97.5

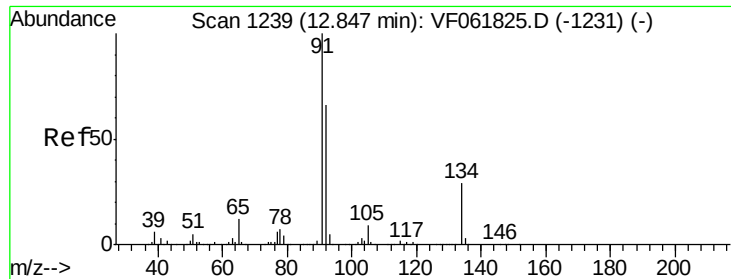


#88  
 1,4-Dichlorobenzene  
 Concen: 22.798 ug/l  
 RT: 12.56 min Scan# 1210  
 Delta R.T. -0.01 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

Tgt Ion:146 Resp: 137464  
 Ion Ratio Lower Upper  
 146 100  
 111 33.9 17.6 52.9  
 148 65.5 33.5 100.4



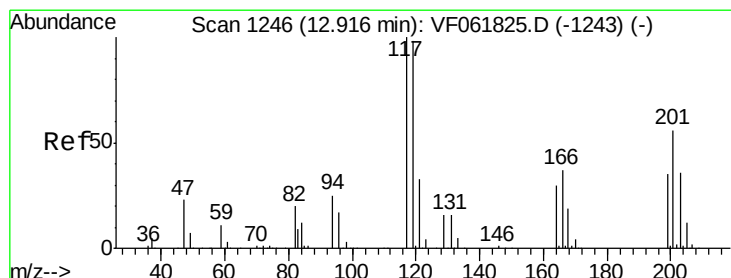
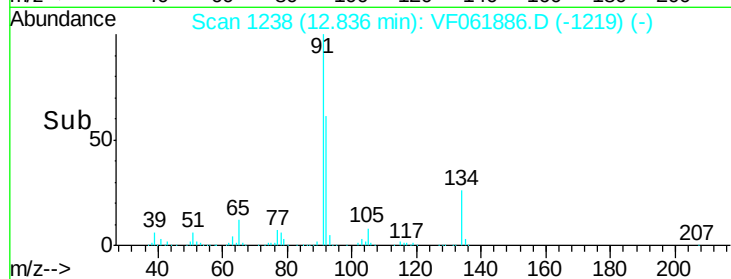
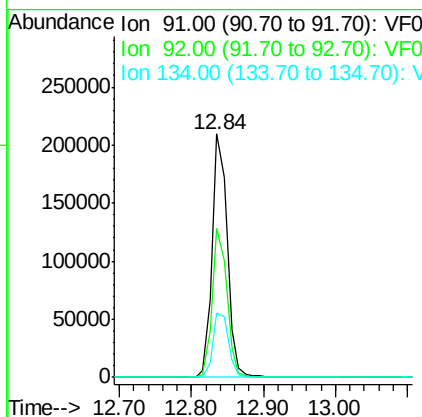
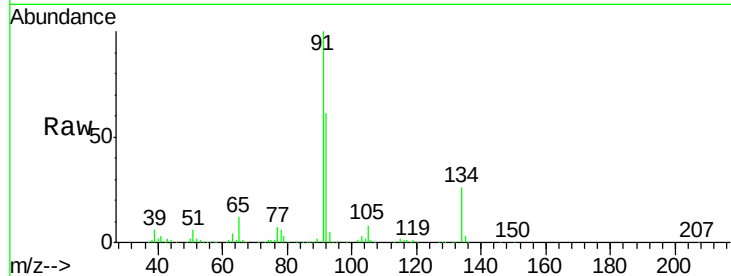




#89  
n-Butylbenzene  
Concen: 24.564 ug/l  
RT: 12.84 min Scan# 1238  
Delta R.T. -0.01 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

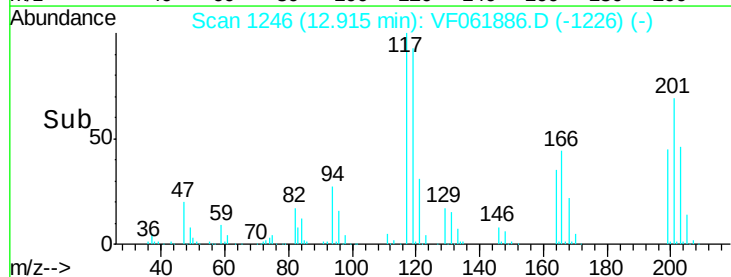
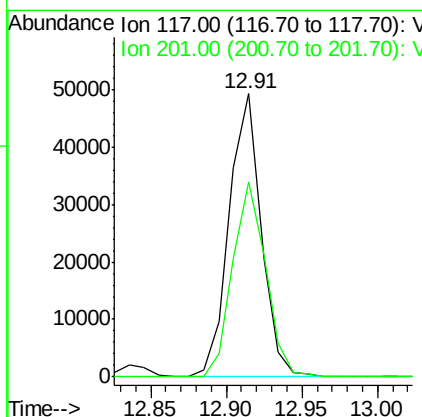
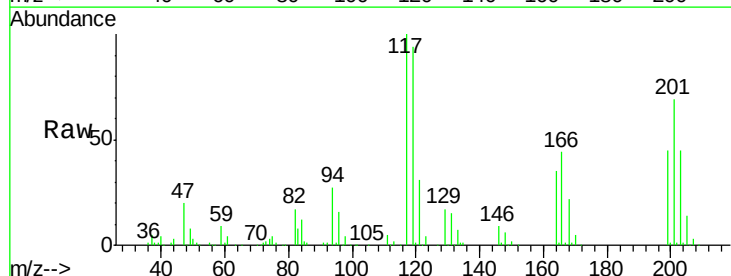
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBS01

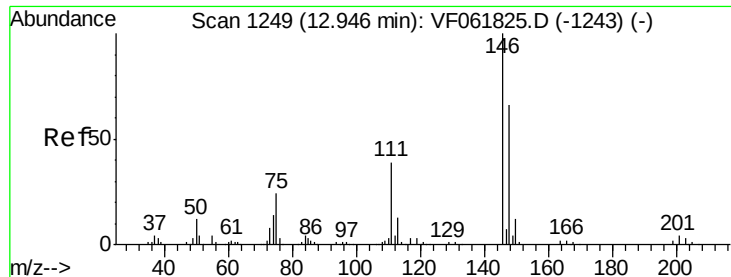
Tot Ion: 91 Resp: 302807  
Ion Ratio Lower Upper  
91 100  
92 61.3 32.9 98.6  
134 26.5 14.5 43.6



#90  
Hexachloroethane  
Concen: 23.390 ug/l  
RT: 12.91 min Scan# 1246  
Delta R.T. -0.00 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion: 117 Resp: 72621  
Ion Ratio Lower Upper  
117 100  
201 68.7 27.8 83.4

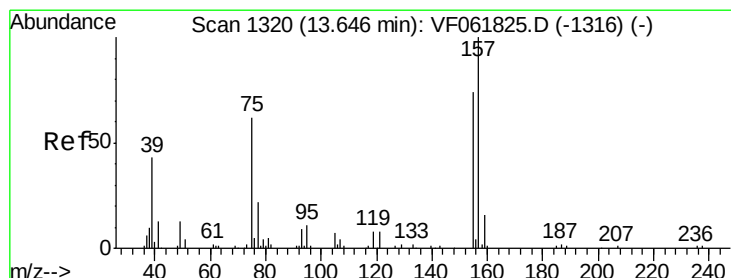
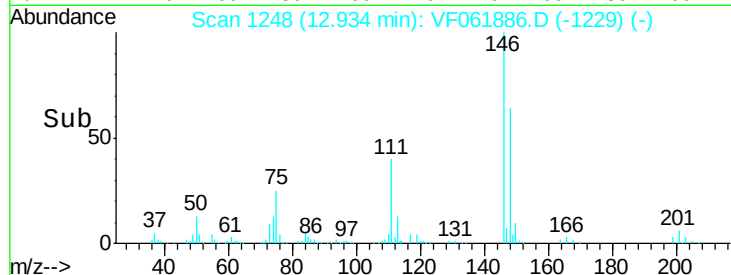
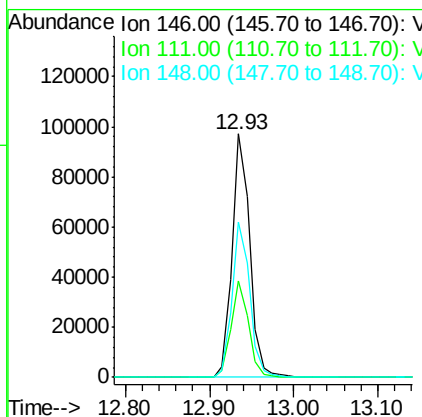
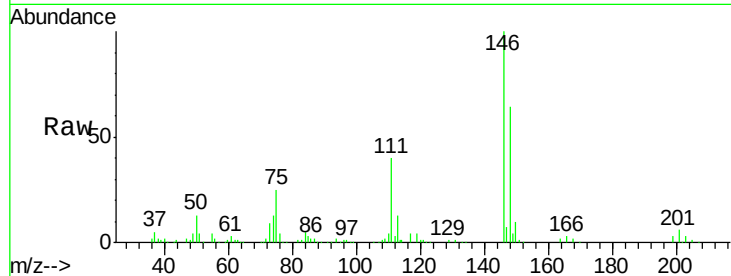




#91  
 1,2-Dichlorobenzene  
 Concen: 24.064 ug/l  
 RT: 12.93 min Scan# 1248  
 Delta R.T. -0.01 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

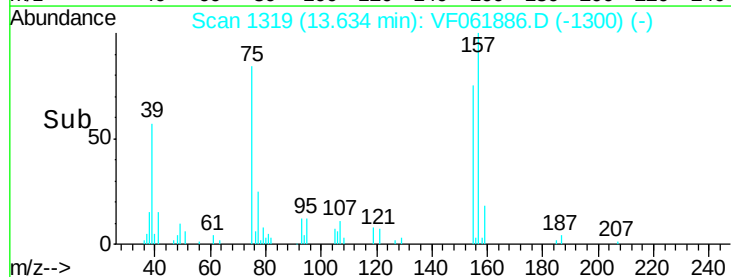
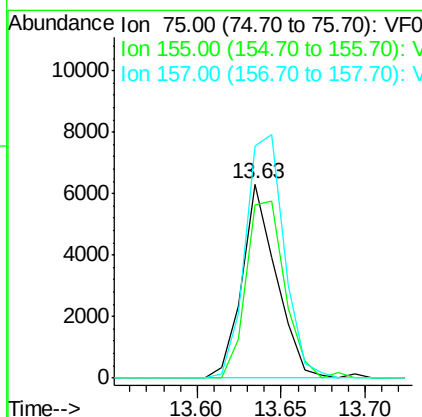
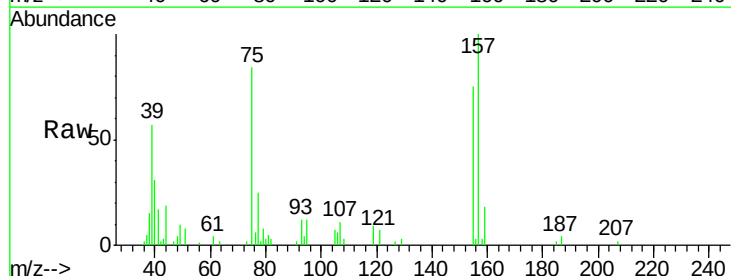
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0311SBS01

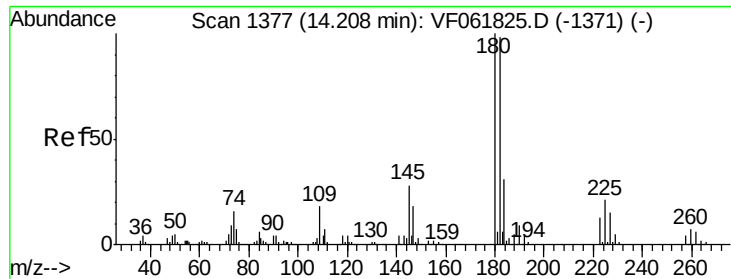
Tot Ion:146 Resp: 142509  
 Ion Ratio Lower Upper  
 146 100  
 111 39.7 19.4 58.4  
 148 63.9 33.0 98.9



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 24.635 ug/l  
 RT: 13.63 min Scan# 1319  
 Delta R.T. -0.01 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

Tgt Ion: 75 Resp: 8909  
 Ion Ratio Lower Upper  
 75 100  
 155 92.3 59.8 179.4  
 157 119.8 81.2 243.4

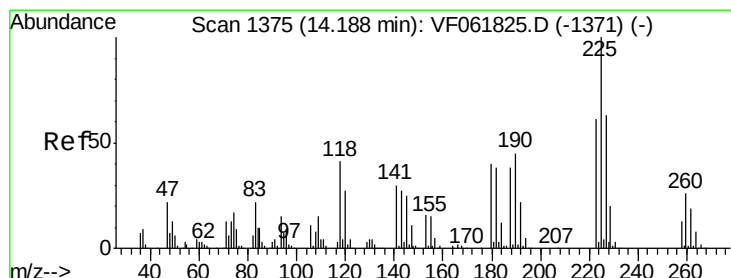
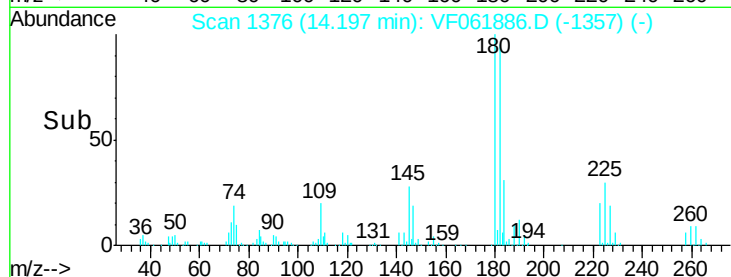
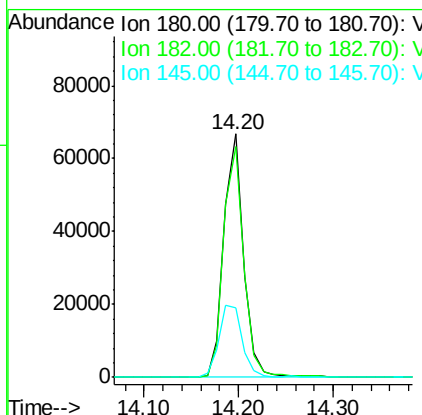
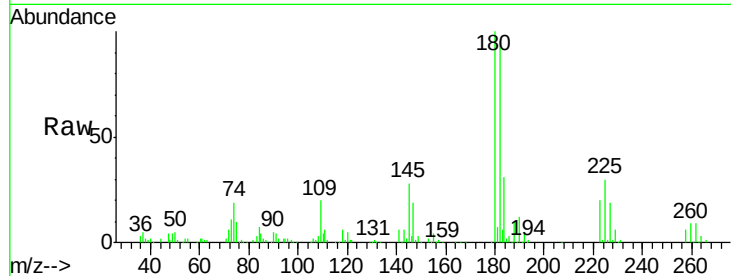




#93  
 1,2,4-Trichlorobenzene  
 Concen: 23.383 ug/l  
 RT: 14.20 min Scan# 1376  
 Delta R.T. -0.01 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

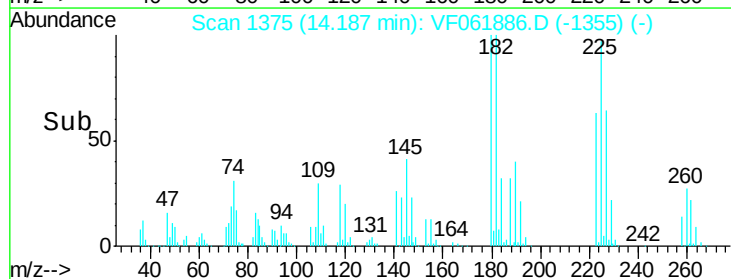
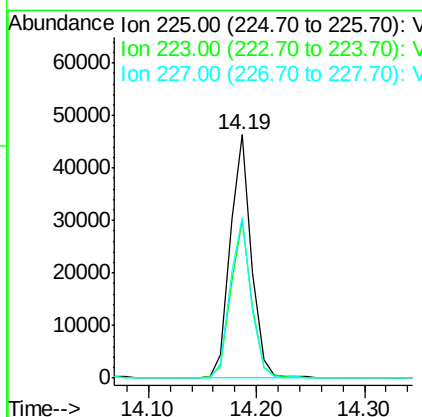
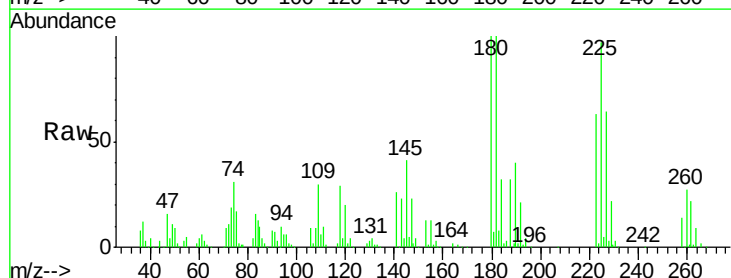
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0311SBS01

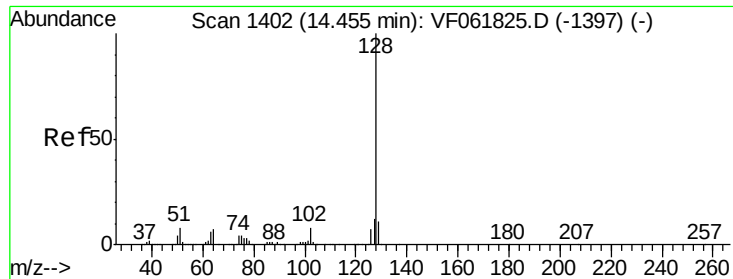
Tot Ion:180 Resp: 97080  
 Ion Ratio Lower Upper  
 180 100  
 182 95.0 49.0 147.2  
 145 28.3 14.1 42.4



#94  
 Hexachlorobutadiene  
 Concen: 21.938 ug/l  
 RT: 14.19 min Scan# 1375  
 Delta R.T. -0.00 min  
 Lab File: VF061886.D  
 Acq: 11 Mar 2019 13:36

Tgt Ion:225 Resp: 63055  
 Ion Ratio Lower Upper  
 225 100  
 223 64.9 30.3 90.9  
 227 66.0 31.3 93.8

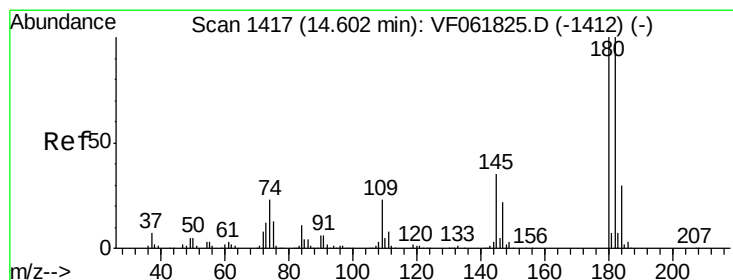
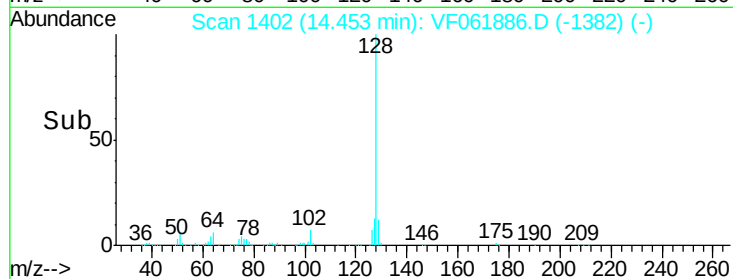
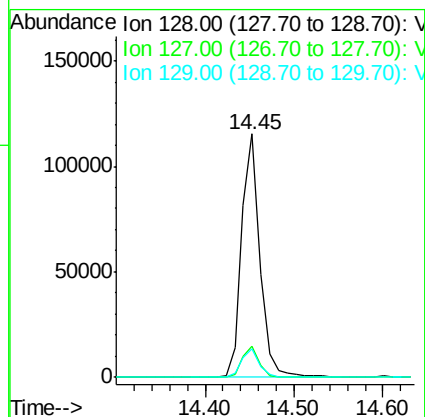
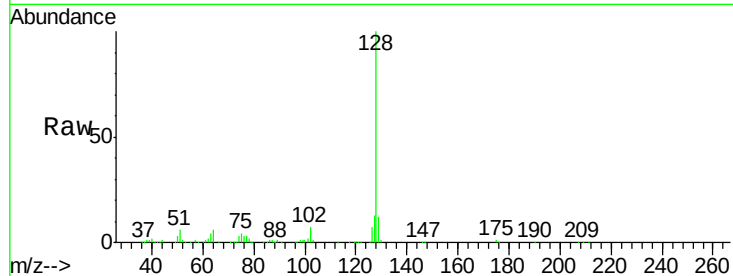




#95  
Naphthalene  
Concen: 22.479 ug/l  
RT: 14.45 min Scan# 1402  
Delta R.T. -0.00 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0311SBS01

Tot Ion:128 Resp: 166226  
Ion Ratio Lower Upper  
128 100  
127 12.9 9.3 13.9  
129 12.0 8.8 13.2



#96  
1,2,3-Trichlorobenzene  
Concen: 23.138 ug/l  
RT: 14.60 min Scan# 1417  
Delta R.T. -0.00 min  
Lab File: VF061886.D  
Acq: 11 Mar 2019 13:36

Tgt Ion:180 Resp: 88699  
Ion Ratio Lower Upper  
180 100  
182 96.6 50.2 150.7  
145 28.7 17.5 52.5

