

Data Path : W:\HPCHEM1\MSVOA F\DATA\VF091615\  
 Data File : VF045393.D  
 Acq On : 16 Sep 2015 15:37  
 Operator : FY/SY  
 Sample : VSTDICC100  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICC100

Quant Time: Sep 16 15:53:49 2015  
 Quant Method : W:\HPCHEM1\MSVOA\_F\METHODS\82F091615S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 15:43:53 2015  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.81  | 168  | 1080255  | 50.00 | ug/l  | 0.00     |
| 33) 1,4-Difluorobenzene    | 5.54  | 114  | 1608915  | 50.00 | ug/l  | 0.00     |
| 62) Chlorobenzene-d5       | 9.70  | 117  | 1458103  | 50.00 | ug/l  | 0.00     |
| 71) 1,4-Dichlorobenzene-d4 | 12.49 | 152  | 844762   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 32) 1,2-Dichloroethane-d4 | 4.78   | 65  | 1144282  | 99.51 | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 199.02% |      |
| 34) Dibromofluoromethane  | 4.04   | 113 | 1201130  | 96.90 | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 193.80% |      |
| 49) Toluene-d8            | 7.50   | 98  | 3348503  | 91.05 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 182.10% |      |
| 61) 4-Bromofluorobenzene  | 11.35  | 95  | 1610091  | 91.35 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 182.70% |      |

## Target Compounds

|                               |      |     |         |        |        | Qvalue |
|-------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.94 | 85  | 883471  | 98.57  | ug/l   | 95     |
| 3) Chloromethane              | 1.03 | 50  | 723144  | 89.71  | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.10 | 62  | 666587  | 97.70  | ug/l   | 98     |
| 5) Bromomethane               | 1.25 | 94  | 395411  | 96.56  | ug/l   | 100    |
| 6) Chloroethane               | 1.33 | 64  | 245404  | 90.84  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 1.39 | 101 | 477030  | 34.83  | ug/l   | 98     |
| 8) Diethyl Ether              | 1.60 | 74  | 278393  | 95.00  | ug/l   | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.78 | 101 | 749364  | 94.60  | ug/l   | 97     |
| 10) Methyl Iodide             | 1.80 | 142 | 1527695 | 93.97  | ug/l   | 94     |
| 11) Tert butyl alcohol        | 2.51 | 59  | 62310   | 512.76 | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 1.72 | 96  | 609060  | 91.61  | ug/l   | 97     |
| 13) Acrolein                  | 1.95 | 56  | 276143  | 506.56 | ug/l   | 99     |
| 14) Allyl chloride            | 2.05 | 41  | 1018112 | 96.25  | ug/l   | 97     |
| 15) Acrylonitrile             | 2.88 | 53  | 620245  | 490.47 | ug/l   | 94     |
| 16) Acetone                   | 2.19 | 43  | 1254192 | 486.48 | ug/l   | 97     |
| 17) Carbon Disulfide          | 1.73 | 76  | 2126196 | 95.03  | ug/l   | 99     |
| 18) Methyl Acetate            | 2.30 | 43  | 1013543 | 99.86  | ug/l   | 95     |
| 19) Methyl tert-butyl Ether   | 2.39 | 73  | 569112  | 110.50 | ug/l   | 93     |
| 20) Methylene Chloride        | 2.13 | 84  | 659334  | 76.02  | ug/l   | 94     |
| 21) trans-1,2-Dichloroethene  | 2.26 | 96  | 716644  | 96.26  | ug/l   | 95     |
| 22) Diisopropyl ether         | 2.75 | 45  | 2085472 | 91.81  | ug/l   | 96     |
| 23) Vinyl Acetate             | 3.12 | 43  | 3005315 | 453.73 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 2.82 | 63  | 1400103 | 92.72  | ug/l   | 98     |
| 25) 2-Butanone                | 4.26 | 43  | 1776938 | 471.66 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 3.54 | 77  | 1334686 | 96.20  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 3.41 | 96  | 1094840 | 95.07  | ug/l   | 97     |
| 28) Bromochloromethane        | 3.65 | 49  | 517754  | 84.67  | ug/l # | 96     |
| 29) Chloroform                | 3.78 | 83  | 1913326 | 90.38  | ug/l   | 96     |
| 30) Cyclohexane               | 3.64 | 56  | 1230364 | 88.33  | ug/l   | 96     |
| 31) 1,1,1-Trichloroethane     | 4.03 | 97  | 1610236 | 93.12  | ug/l   | 96     |
| 35) 1,1-Dichloropropene       | 4.22 | 75  | 1479751 | 96.55  | ug/l   | 97     |
| 36) Ethyl Acetate             | 4.04 | 43  | 714560  | 91.07  | ug/l # | 55     |
| 37) Carbon Tetrachloride      | 3.92 | 117 | 1553360 | 98.40  | ug/l   | 99     |
| 38) Methylcyclohexane         | 5.40 | 83  | 1506373 | 90.86  | ug/l   | 93     |

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 MSVOA\_F  
 ClientSampleId :  
 VSTDICC100

Quant Time: Sep 16 15:53:49 2015  
 Quant Method : W:\HPCHEM1\MSVOA\_F\METHODS\82F091615S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 15:43:53 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Benzene                    | 4.57  | 78   | 3274962  | 89.76   | ug/l   | 100      |
| 40) Methacrylonitrile          | 4.68  | 41   | 346963   | 93.62   | ug/l   | 93       |
| 41) 1,2-Dichloroethane         | 4.87  | 62   | 1346003  | 94.59   | ug/l   | 96       |
| 42) Isopropyl Acetate          | 6.90  | 43   | 972697   | 93.66   | ug/l # | 96       |
| 43) Trichloroethene            | 5.44  | 130  | 1112132  | 91.46   | ug/l   | 94       |
| 44) 1,2-Dichloropropane        | 6.17  | 63   | 955037   | 89.53   | ug/l   | 99       |
| 45) Dibromomethane             | 6.02  | 93   | 697678   | 94.71   | ug/l   | 95       |
| 46) Bromodichloromethane       | 6.32  | 83   | 1508282  | 90.81   | ug/l   | 99       |
| 47) Methyl methacrylate        | 6.66  | 41   | 596926   | 95.15   | ug/l   | 93       |
| 48) 1,4-Dioxane                | 6.64  | 88   | 136996   | 1848.71 | ug/l # | 82       |
| 50) 4-Methyl-2-Pentanone       | 8.20  | 43   | 3259324  | 443.71  | ug/l   | 99       |
| 51) Toluene                    | 7.57  | 92   | 2431958  | 88.05   | ug/l   | 90       |
| 52) t-1,3-Dichloropropene      | 8.22  | 75   | 1421574  | 95.52   | ug/l   | 97       |
| 53) cis-1,3-Dichloropropene    | 7.24  | 75   | 1685290  | 94.82   | ug/l   | 99       |
| 54) 1,1,2-Trichloroethane      | 8.42  | 97   | 853702   | 91.67   | ug/l   | 94       |
| 55) Ethyl methacrylate         | 8.56  | 69   | 1145072  | 94.47   | ug/l   | 98       |
| 56) 1,3-Dichloropropane        | 8.78  | 76   | 1380008  | 90.09   | ug/l   | 98       |
| 58) 2-Hexanone                 | 9.43  | 43   | 2598116  | 447.00  | ug/l   | 96       |
| 59) Dibromochloromethane       | 8.65  | 129  | 1225689  | 93.87   | ug/l   | 98       |
| 60) 1,2-Dibromoethane          | 8.92  | 107  | 1001771  | 95.57   | ug/l   | 92       |
| 63) Tetrachloroethene          | 8.09  | 164  | 1099083  | 96.01   | ug/l   | 97       |
| 64) Chlorobenzene              | 9.72  | 112  | 2884276  | 93.81   | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane  | 9.86  | 131  | 1125483  | 101.32  | ug/l   | 96       |
| 66) Ethyl Benzene              | 9.83  | 91   | 4849989  | 90.86   | ug/l   | 95       |
| 67) m/p-Xylenes                | 10.07 | 106  | 3361554  | 175.63  | ug/l   | 90       |
| 68) o-Xylene                   | 10.65 | 106  | 1890898  | 96.23   | ug/l   | 98       |
| 69) Styrene                    | 10.73 | 104  | 2890792  | 90.79   | ug/l   | 96       |
| 70) Bromoform                  | 10.71 | 173  | 867651   | 107.07  | ug/l   | 99       |
| 72) Isopropylbenzene           | 11.07 | 105  | 5108756  | 89.13   | ug/l   | 94       |
| 73) N-amyl acetate             | 11.32 | 43   | 1534266  | 94.68   | ug/l   | 92       |
| 74) 1,1,2,2-Tetrachloroethane  | 11.64 | 83   | 1172923  | 89.95   | ug/l   | 98       |
| 75) 1,2,3-Trichloropropane     | 11.73 | 75   | 830461   | 92.26   | ug/l   | 95       |
| 76) Bromobenzene               | 11.44 | 156  | 1481270  | 91.73   | ug/l   | 89       |
| 77) n-propylbenzene            | 11.54 | 91   | 5799754  | 80.24   | ug/l   | 98       |
| 78) 2-Chlorotoluene            | 11.66 | 91   | 3528454  | 87.52   | ug/l   | 93       |
| 79) 1,3,5-Trimethylbenzene     | 11.77 | 105  | 3861402  | 81.56   | ug/l   | 96       |
| 80) trans-1,4-Dichloro-2-buten | 11.81 | 75   | 582582   | 121.51  | ug/l   | 98       |
| 81) 4-Chlorotoluene            | 11.84 | 91   | 3956363  | 89.56   | ug/l   | 90       |
| 82) tert-Butylbenzene          | 12.08 | 119  | 4010729  | 86.65   | ug/l   | 95       |
| 83) 1,2,4-Trimethylbenzene     | 12.15 | 105  | 4218473  | 87.71   | ug/l   | 92       |
| 84) sec-Butylbenzene           | 12.26 | 105  | 5501926  | 85.59   | ug/l   | 96       |
| 85) p-Isopropyltoluene         | 12.40 | 119  | 4110255  | 82.13   | ug/l   | 93       |
| 86) 1,3-Dichlorobenzene        | 12.41 | 146  | 2358766  | 85.64   | ug/l   | 96       |
| 87) 1,4-Dichlorobenzene        | 12.50 | 146  | 2485771  | 90.88   | ug/l   | 93       |
| 88) n-Butylbenzene             | 12.79 | 91   | 4318037  | 85.64   | ug/l   | 94       |
| 89) Hexachloroethane           | 12.86 | 117  | 1109696  | 94.15   | ug/l   | 96       |
| 90) 1,2-Dichlorobenzene        | 12.88 | 146  | 2365495  | 94.25   | ug/l   | 97       |
| 91) 1,2-Dibromo-3-Chloropropan | 13.58 | 75   | 177431   | 104.95  | ug/l   | 89       |
| 92) 1,2,4-Trichlorobenzene     | 14.13 | 180  | 1479481  | 102.72  | ug/l   | 99       |
| 93) Hexachlorobutadiene        | 14.13 | 225  | 1083031  | 98.51   | ug/l   | 96       |

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Misc : 5.00g/5mL/MSVOA F/SOIL  
ALS Vial : 7 Sample Multiplier: 1

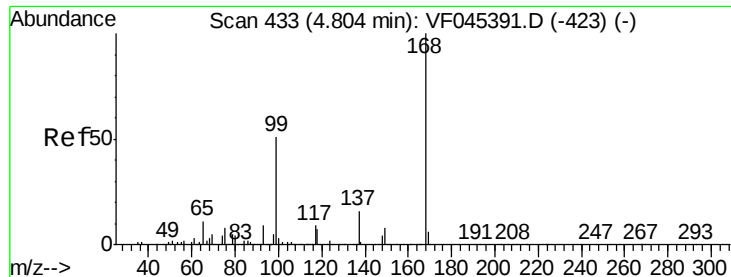
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICC100

Quant Time: Sep 16 15:53:49 2015  
Quant Method : W:\HPCHEM1\MSVOA\_F\METHODS\82F091615S.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 16 15:43:53 2015  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 94) Naphthalene            | 14.38 | 128  | 2710614  | 110.47 | ug/l  | 100      |
| 95) 1,2,3-Trichlorobenzene | 14.53 | 180  | 1270714  | 108.26 | ug/l  | 95       |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.81 min Scan# 434

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

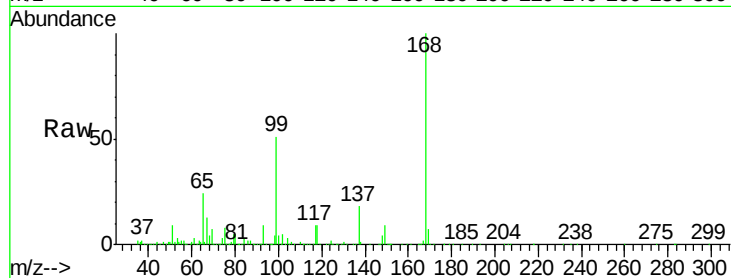
VSTDIC100

Tot Ion:168 Resp: 1080255

Ion Ratio Lower Upper

168 100

99 51.1 39.0 58.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.81

400000

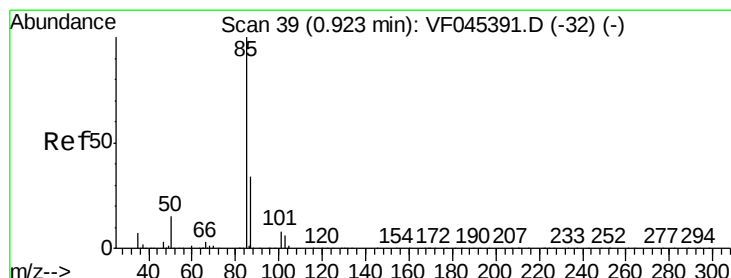
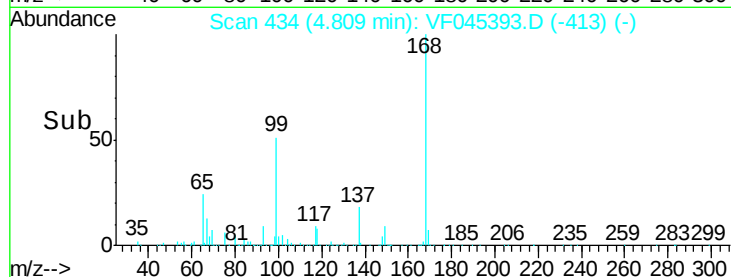
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 98.57 ug/l

RT: 0.94 min Scan# 41

Delta R.T. 0.02 min

Lab File: VF045393.D

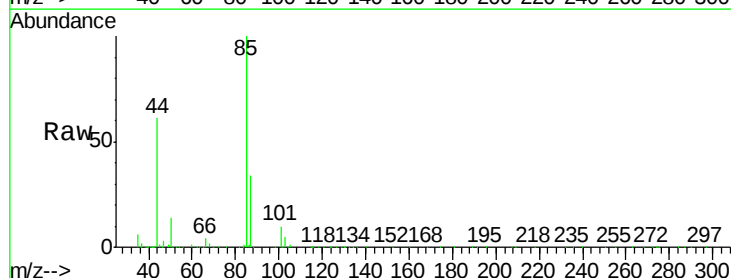
Acq: 16 Sep 2015 15:37

Tgt Ion: 85 Resp: 883471

Ion Ratio Lower Upper

85 100

87 33.7 15.6 46.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.94

300000

250000

200000

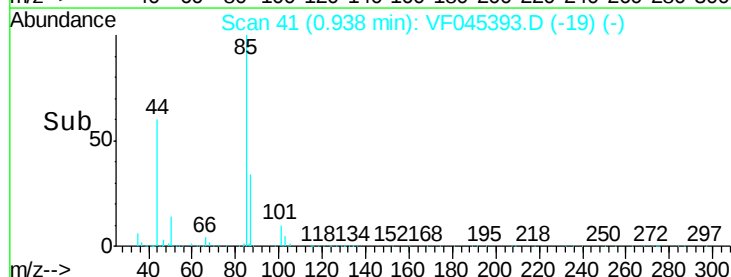
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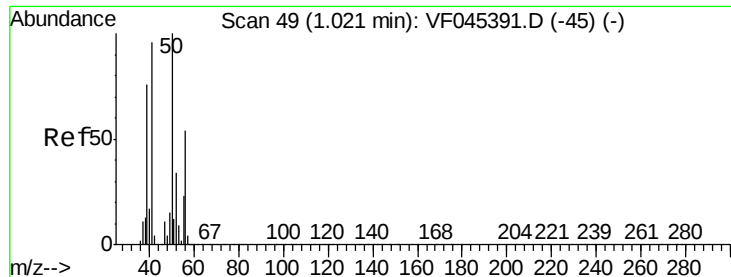
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50000

0

Time-->





#3

Chloromethane

Concen: 89.71 ug/l

RT: 1.03 min Scan# 50

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

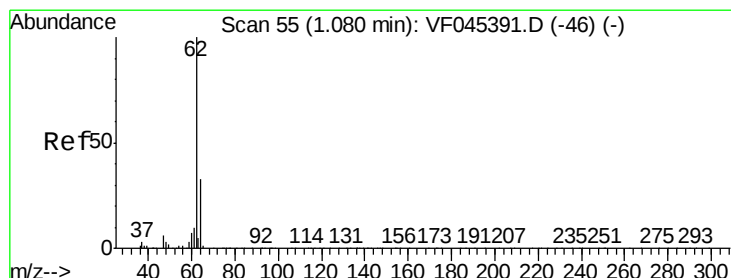
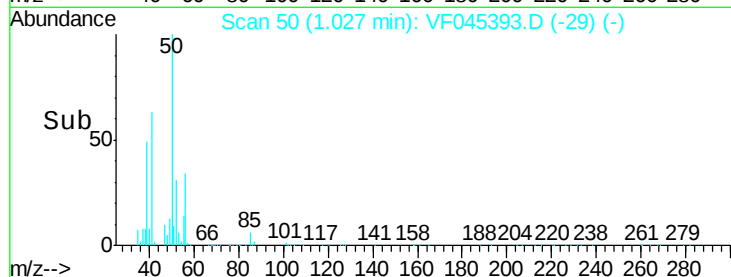
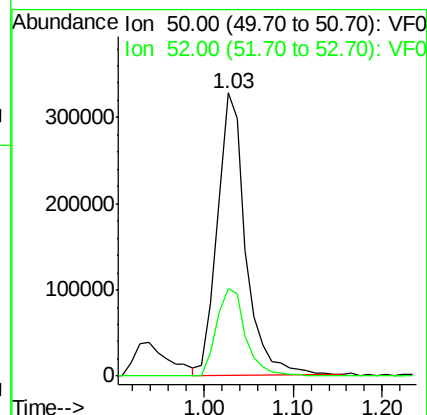
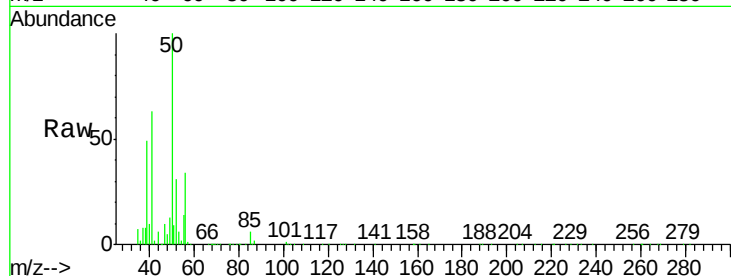
VSTDIC100

Tot Ion: 50 Resp: 723144

Ion Ratio Lower Upper

50 100

52 30.9 23.8 35.8



#4

Vinyl Chloride

Concen: 97.70 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.02 min

Lab File: VF045393.D

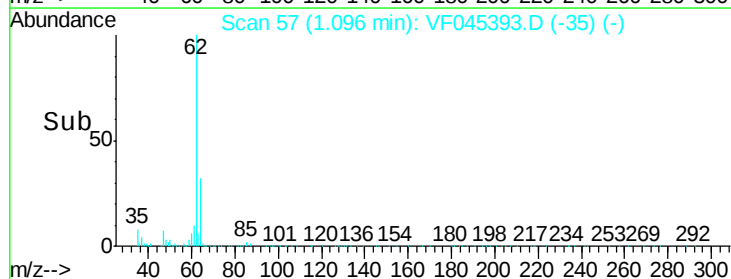
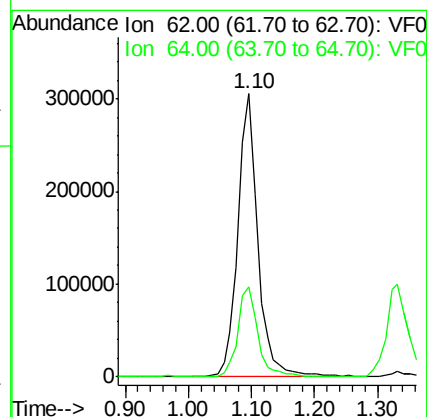
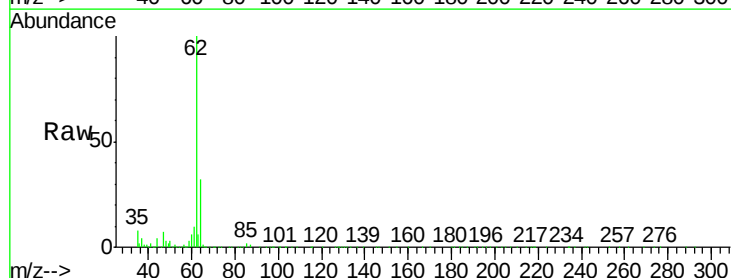
Acq: 16 Sep 2015 15:37

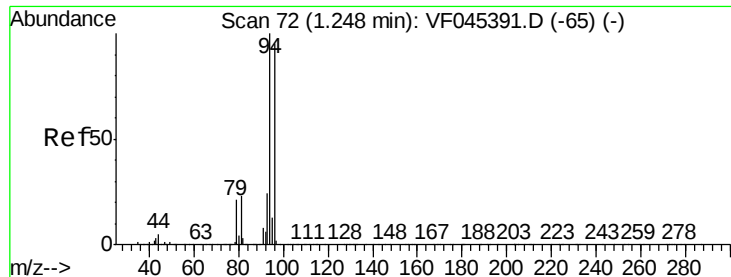
Tgt Ion: 62 Resp: 666587

Ion Ratio Lower Upper

62 100

64 31.9 26.6 39.8





#5

Bromomethane

Concen: 96.56 ug/l

RT: 1.25 min Scan# 73

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

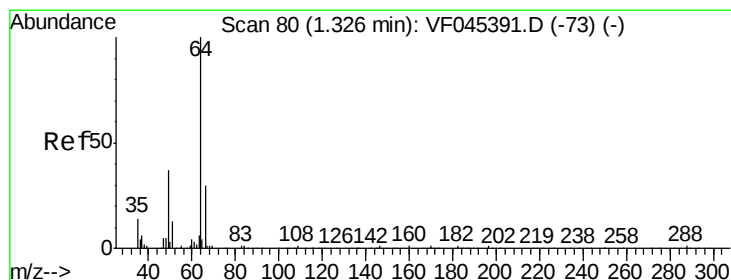
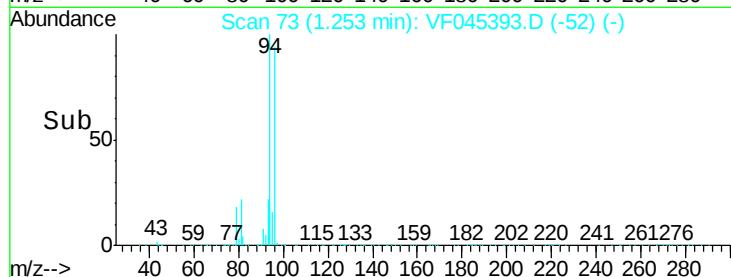
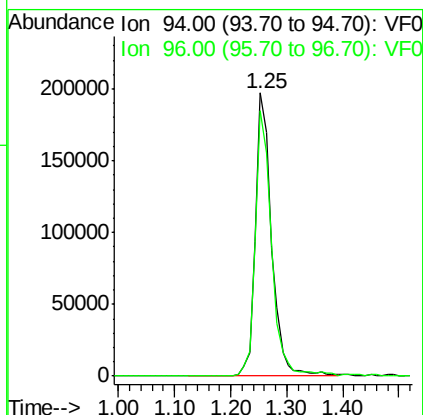
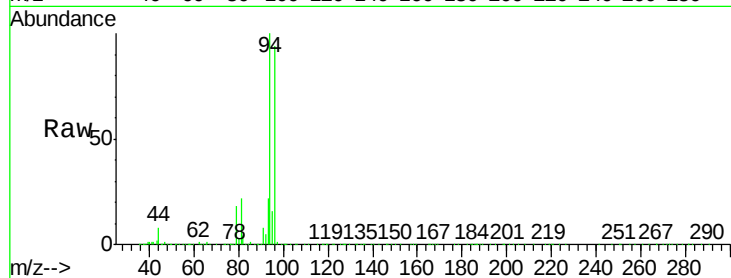
VSTDIC100

Tot Ion: 94 Resp: 395411

Ion Ratio Lower Upper

94 100

96 93.9 75.0 112.4



#6

Chloroethane

Concen: 90.84 ug/l

RT: 1.33 min Scan# 81

Delta R.T. 0.01 min

Lab File: VF045393.D

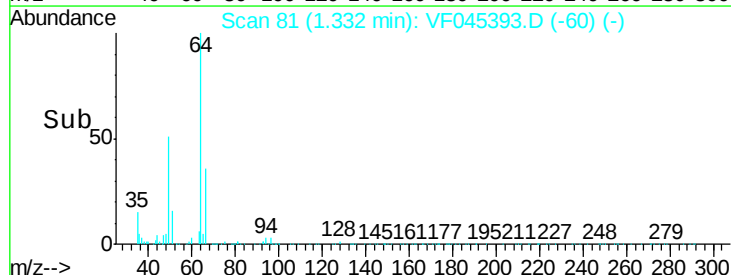
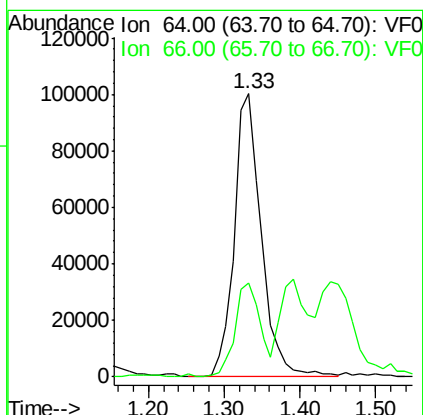
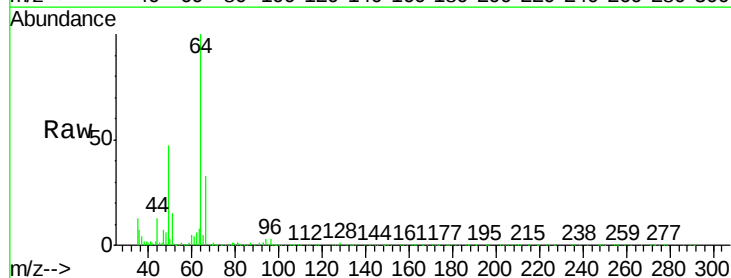
Acq: 16 Sep 2015 15:37

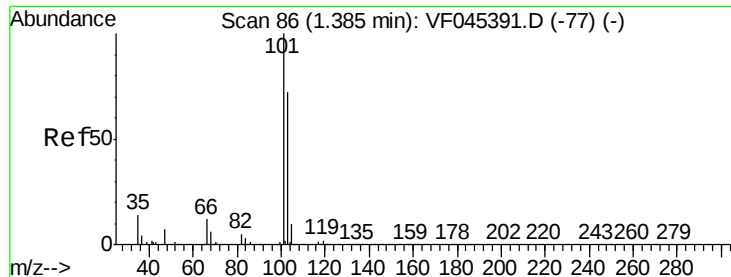
Tgt Ion: 64 Resp: 245404

Ion Ratio Lower Upper

64 100

66 33.0 27.3 40.9





#7

Trichlorofluoromethane

Concen: 34.83 ug/l

RT: 1.39 min Scan# 87

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

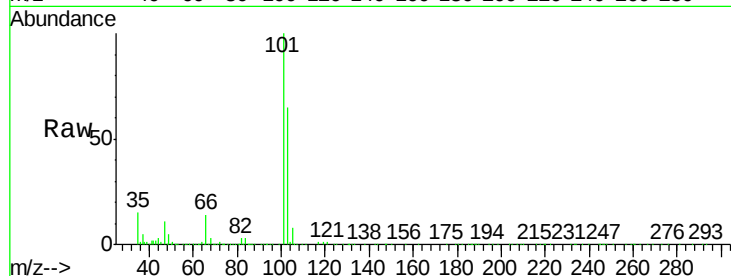
VSTDIC100

Tot Ion:101 Resp: 477030

Ion Ratio Lower Upper

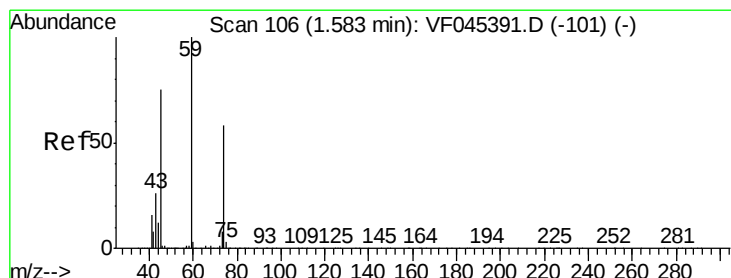
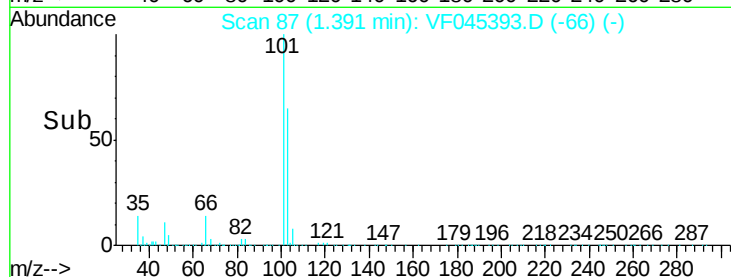
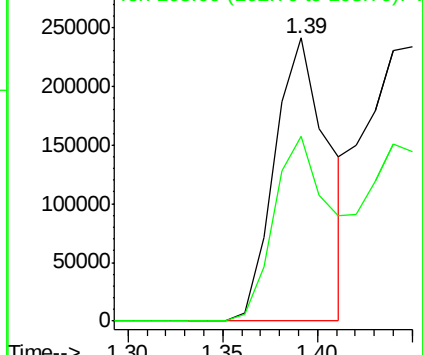
101 100

103 65.4 50.8 76.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 95.00 ug/l

RT: 1.60 min Scan# 108

Delta R.T. 0.02 min

Lab File: VF045393.D

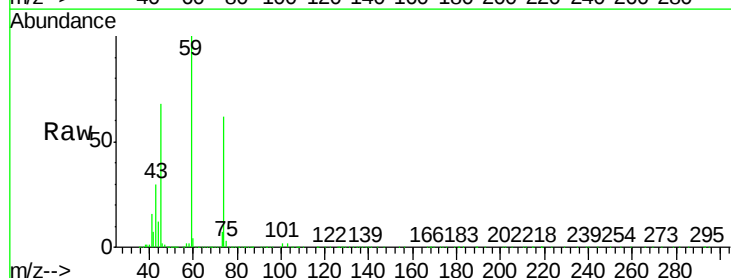
Acq: 16 Sep 2015 15:37

Tgt Ion: 74 Resp: 278393

Ion Ratio Lower Upper

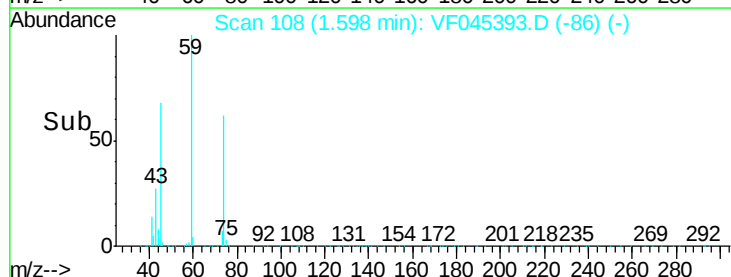
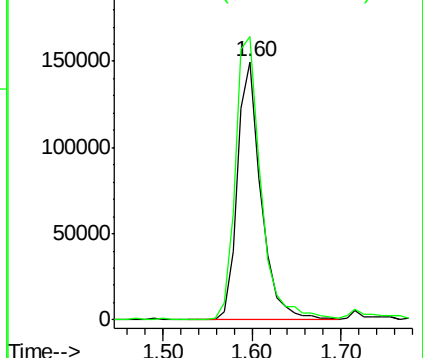
74 100

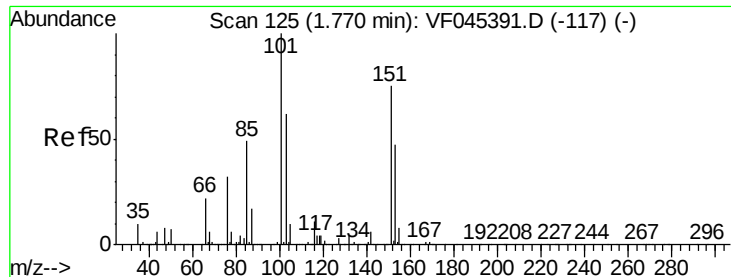
45 109.7 60.9 182.7



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: 94.60 ug/l

RT: 1.78 min Scan# 126

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

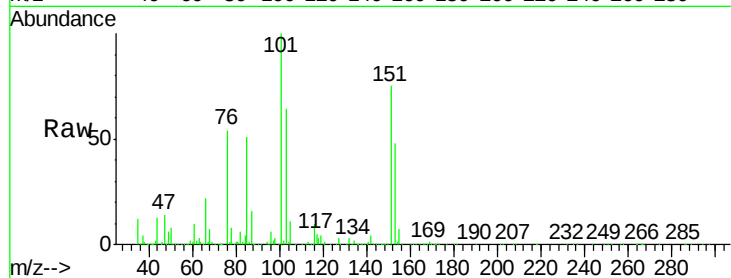
Tot Ion:101 Resp: 749364

Ion Ratio Lower Upper

101 100

85 51.3 40.0 60.0

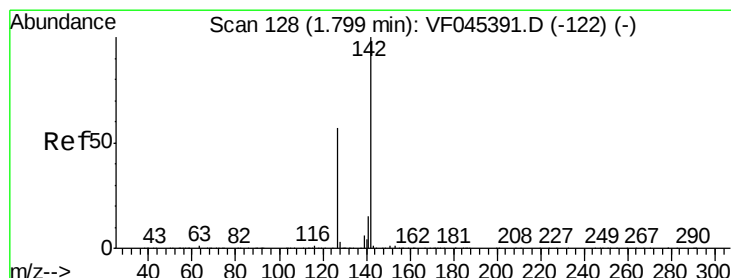
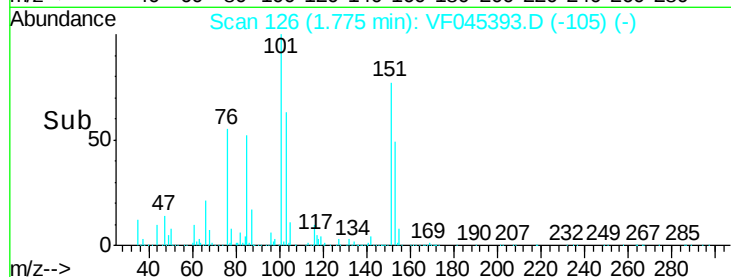
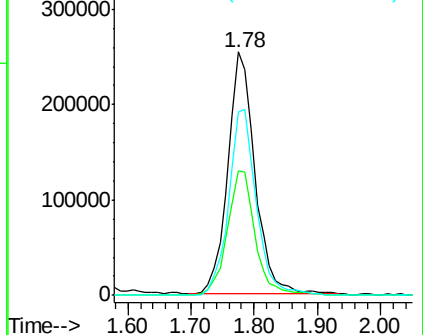
151 75.4 62.8 94.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 93.97 ug/l

RT: 1.80 min Scan# 129

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

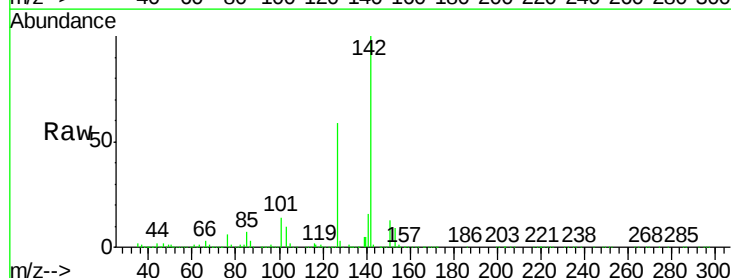
Tgt Ion:142 Resp: 1527695

Ion Ratio Lower Upper

142 100

127 58.9 43.3 64.9

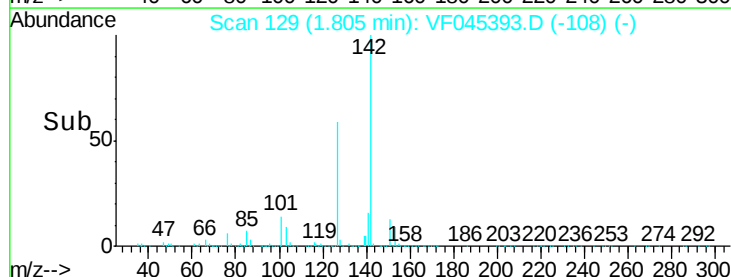
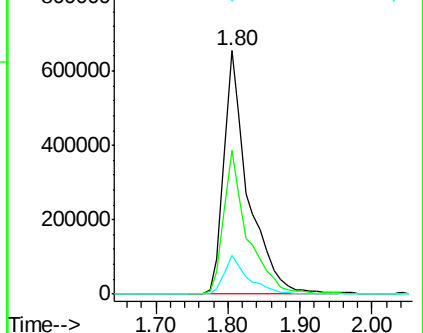
141 15.9 12.1 18.1

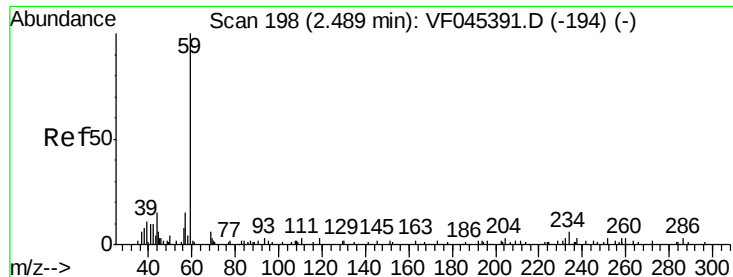


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



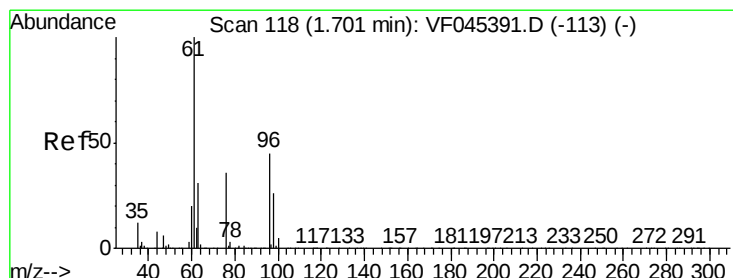
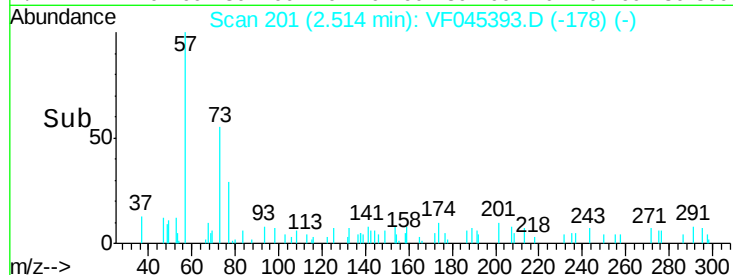
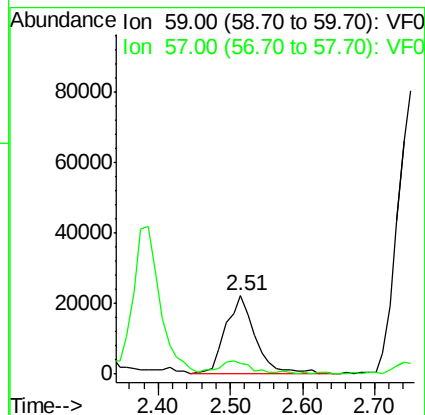
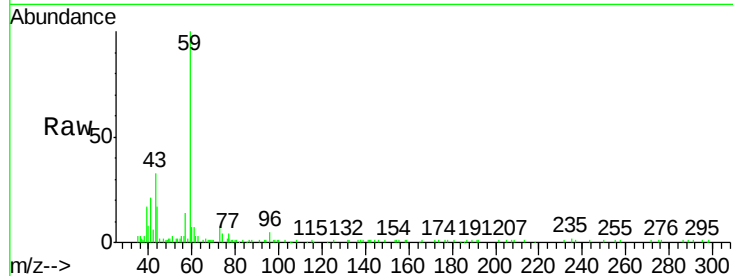


#11

Tert butyl alcohol  
Concen: 512.76 ug/l  
RT: 2.51 min Scan# 201  
Delta R.T. 0.03 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC100

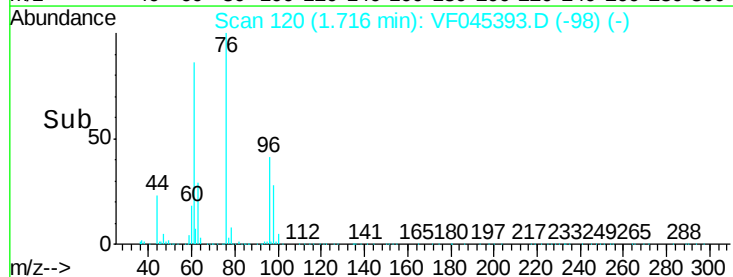
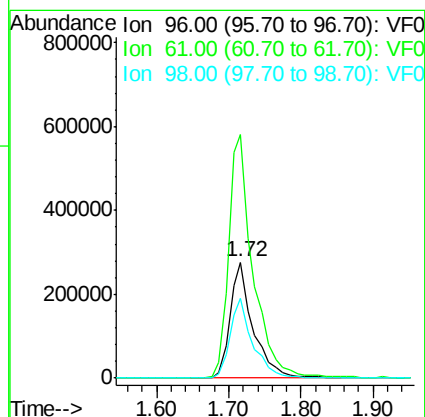
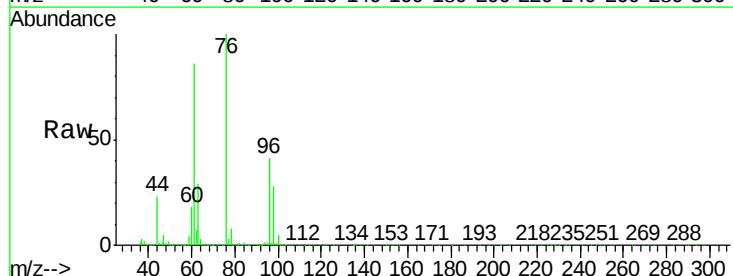
Tot Ion: 59 Resp: 62310  
Ion Ratio Lower Upper  
59 100  
57 14.0 8.6 13.0#

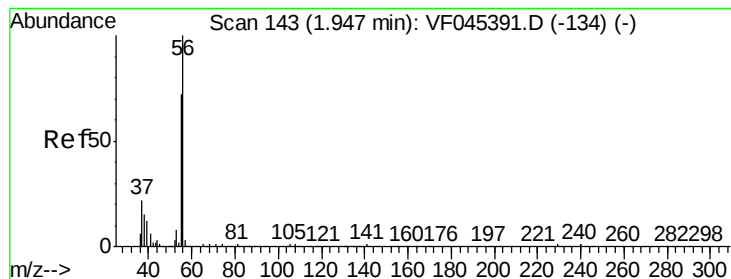


#12

1,1-Dichloroethene  
Concen: 91.61 ug/l  
RT: 1.72 min Scan# 120  
Delta R.T. 0.02 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

Tgt Ion: 96 Resp: 609060  
Ion Ratio Lower Upper  
96 100  
61 209.9 165.8 248.8  
98 68.4 51.2 76.8





#13

Acrolein

Concen: 506.56 ug/l

RT: 1.95 min Scan# 144

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

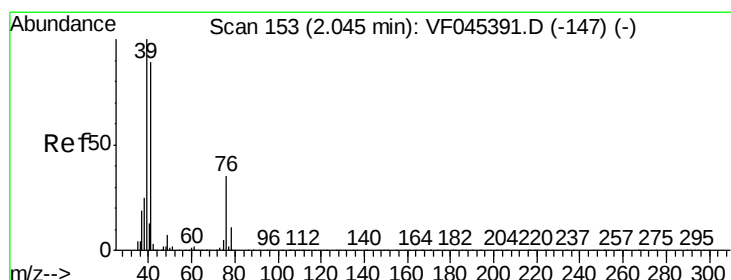
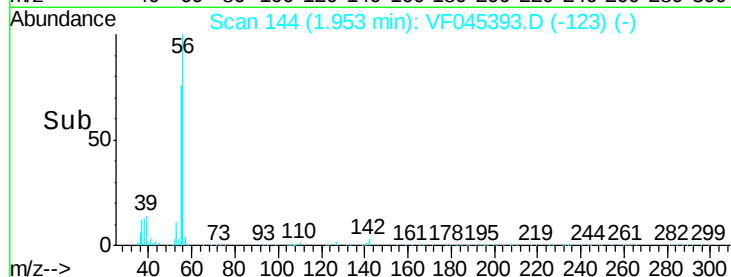
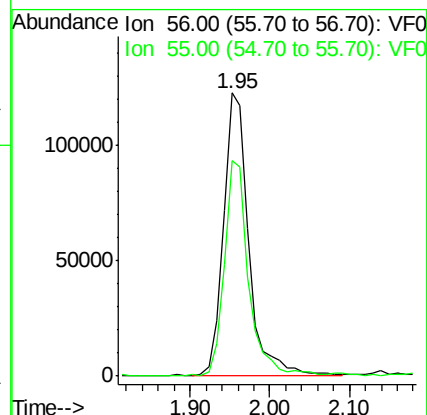
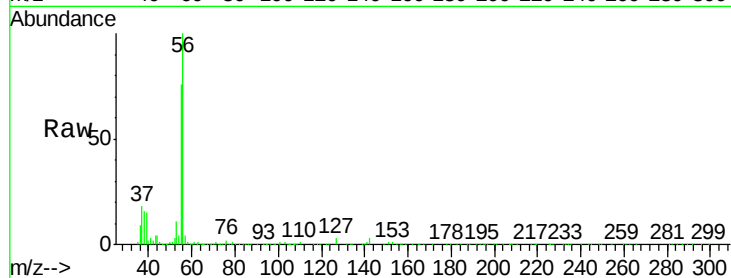
VSTDIC100

Tot Ion: 56 Resp: 276143

Ion Ratio Lower Upper

56 100

55 76.2 60.5 90.7



#14

Allyl chloride

Concen: 96.25 ug/l

RT: 2.05 min Scan# 154

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

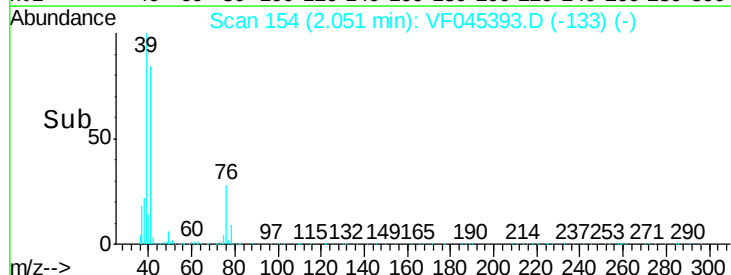
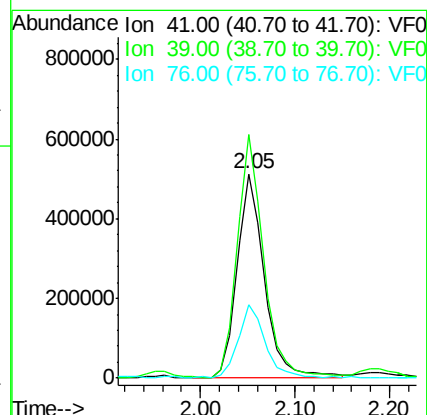
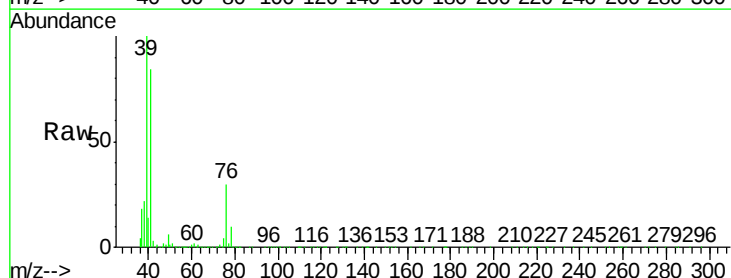
Tgt Ion: 41 Resp: 1018112

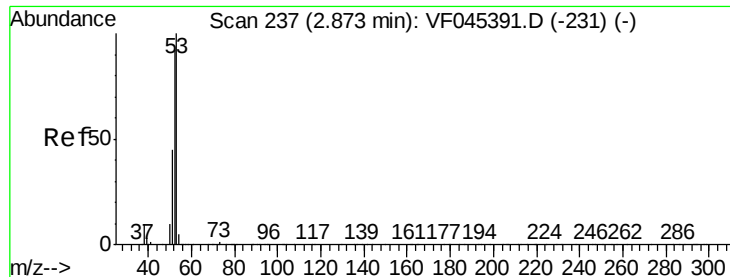
Ion Ratio Lower Upper

41 100

39 119.4 92.8 139.2

76 35.8 27.7 41.5





#15

Acrylonitrile

Concen: 490.47 ug/l

RT: 2.88 min Scan# 238

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

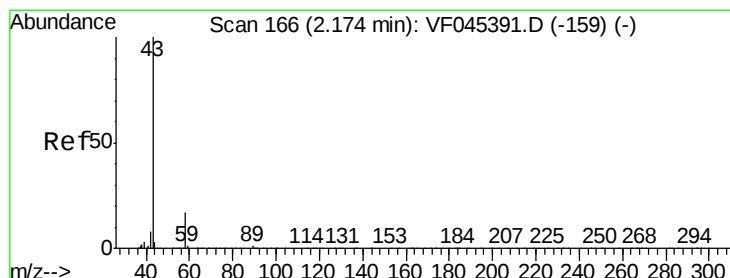
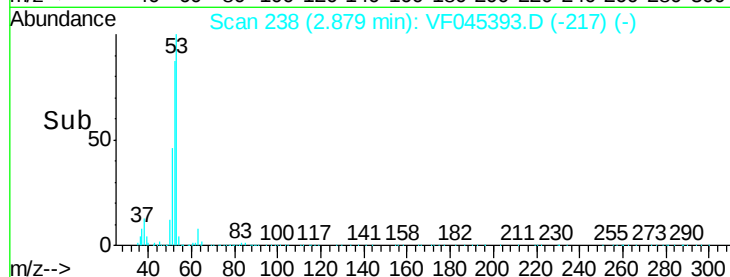
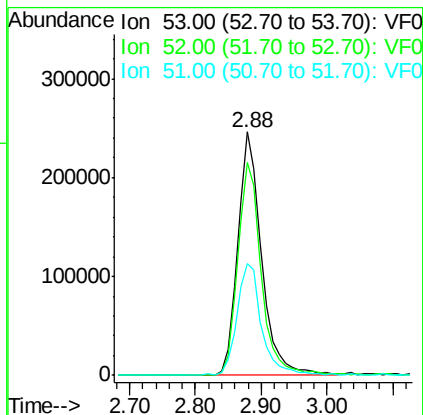
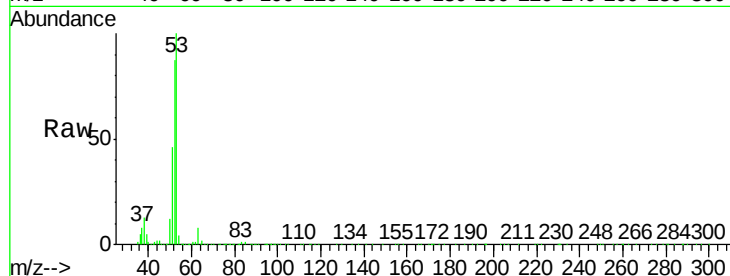
Tot Ion: 53 Resp: 620245

Ion Ratio Lower Upper

53 100

52 87.5 72.7 109.1

51 46.1 42.2 63.2



#16

Acetone

Concen: 486.48 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.02 min

Lab File: VF045393.D

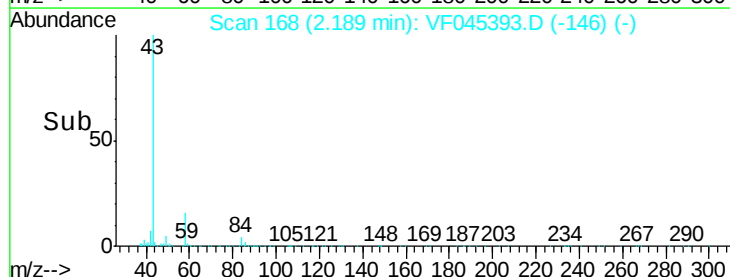
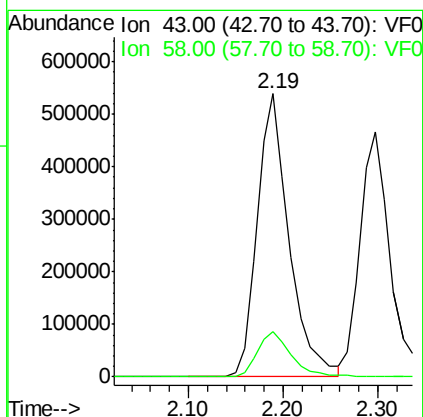
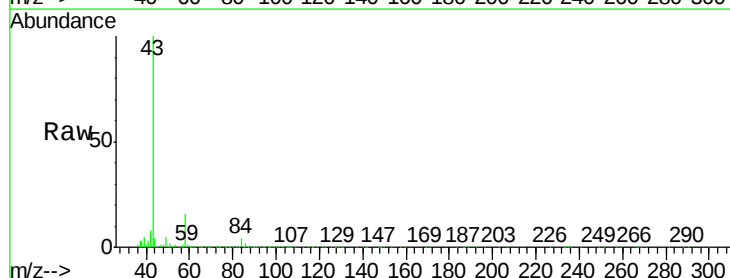
Acq: 16 Sep 2015 15:37

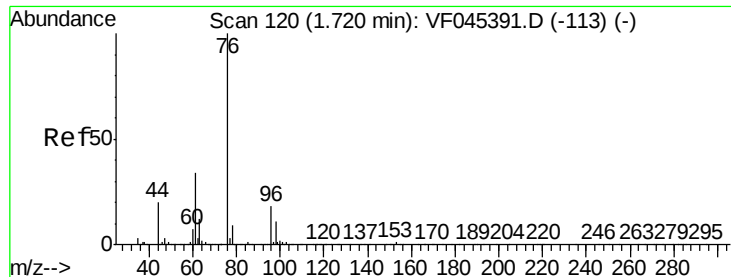
Tgt Ion: 43 Resp: 1254192

Ion Ratio Lower Upper

43 100

58 16.0 13.9 20.9

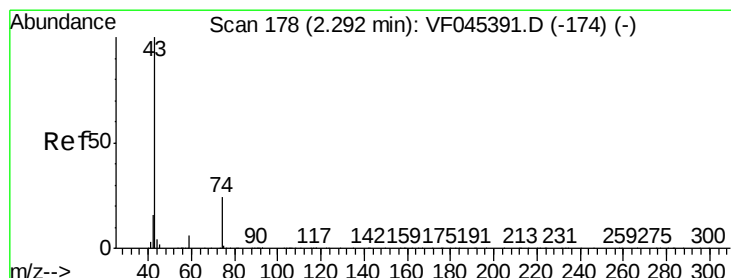
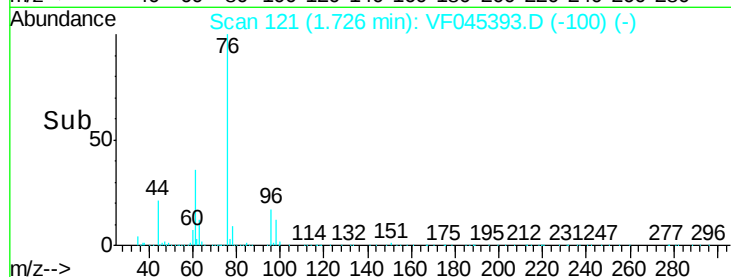
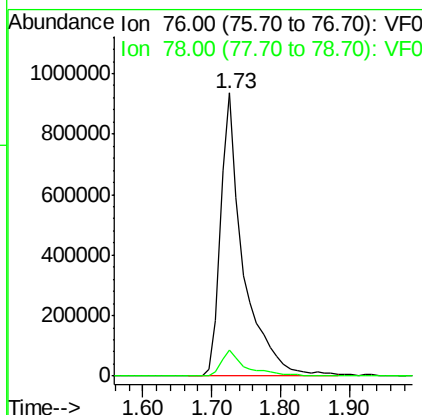
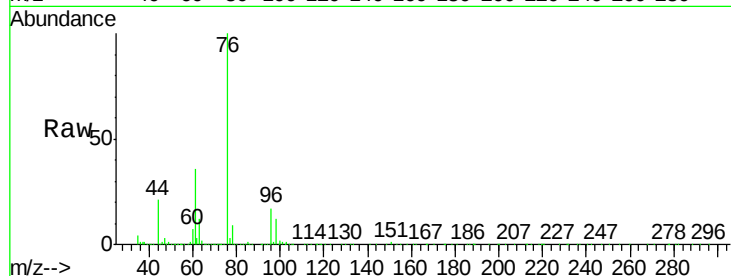




#17  
Carbon Disulfide  
Concen: 95.03 ug/l  
RT: 1.73 min Scan# 121  
Delta R.T. 0.01 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

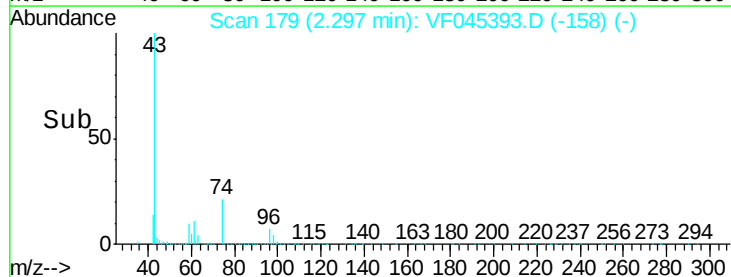
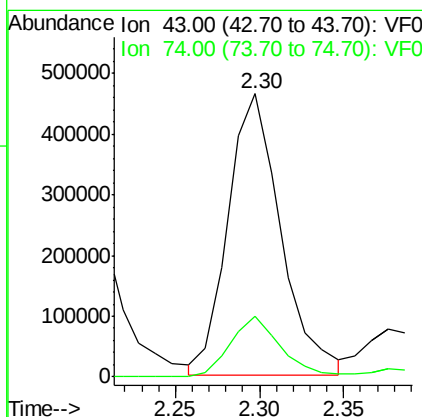
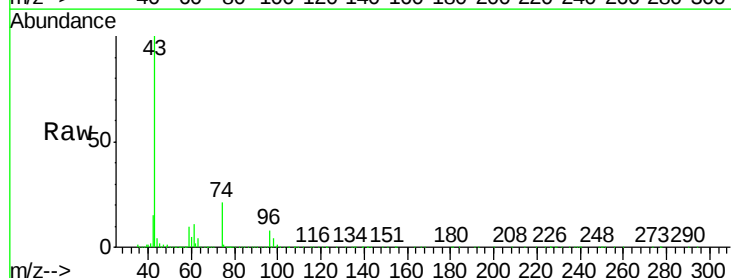
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC100

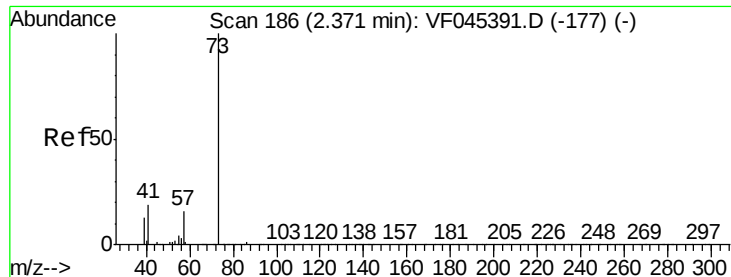
Tot Ion: 76 Resp: 2126196  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.6 11.4



#18  
Methyl Acetate  
Concen: 99.86 ug/l  
RT: 2.30 min Scan# 179  
Delta R.T. 0.01 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

Tgt Ion: 43 Resp: 1013543  
Ion Ratio Lower Upper  
43 100  
74 21.2 15.1 22.7



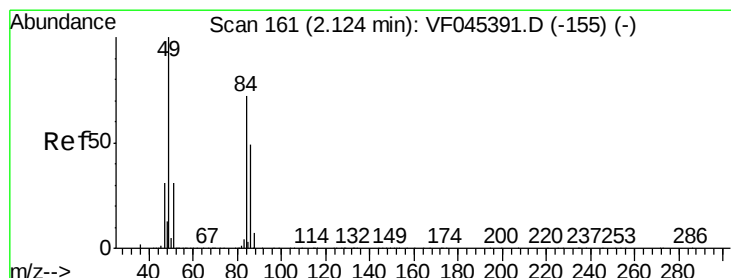
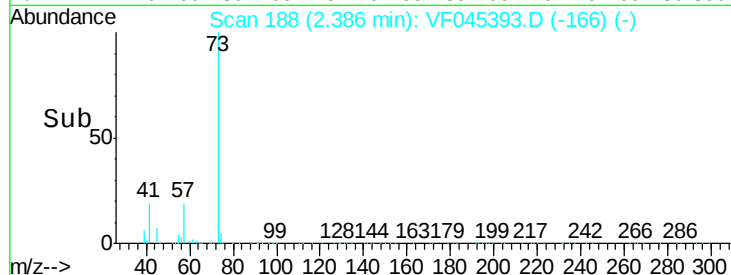
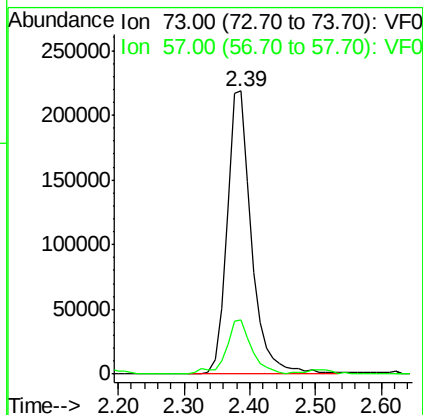
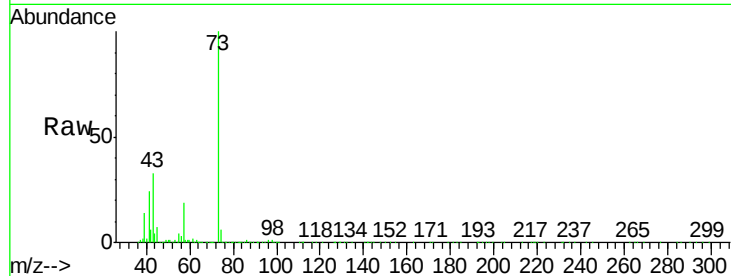


#19

Methyl tert-butyl Ether  
 Concen: 110.50 ug/l  
 RT: 2.39 min Scan# 188  
 Delta R.T. 0.02 min  
 Lab File: VF045393.D  
 Acq: 16 Sep 2015 15:37

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC100

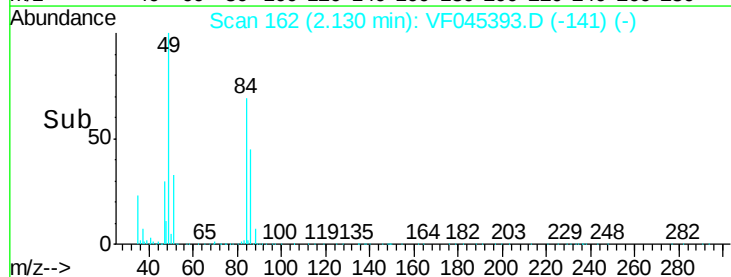
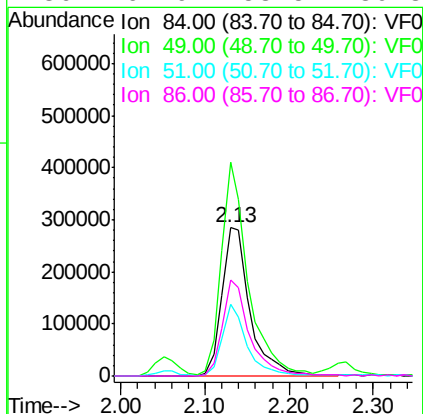
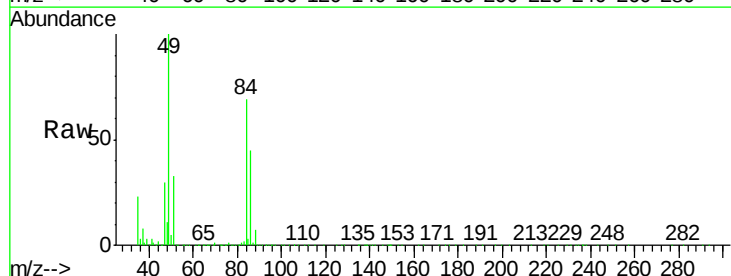
Tot Ion: 73 Resp: 569112  
 Ion Ratio Lower Upper  
 73 100  
 57 19.2 12.9 19.3

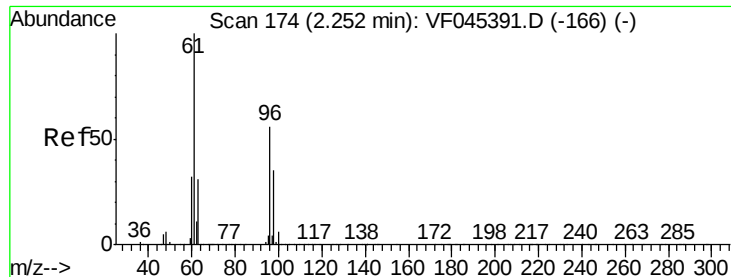


#20

Methylene Chloride  
 Concen: 76.02 ug/l  
 RT: 2.13 min Scan# 162  
 Delta R.T. 0.01 min  
 Lab File: VF045393.D  
 Acq: 16 Sep 2015 15:37

Tgt Ion: 84 Resp: 659334  
 Ion Ratio Lower Upper  
 84 100  
 49 144.2 122.8 184.2  
 51 48.1 35.4 53.2  
 86 64.9 53.5 80.3





#21

trans-1,2-Dichloroethene

Concen: 96.26 ug/l

RT: 2.26 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

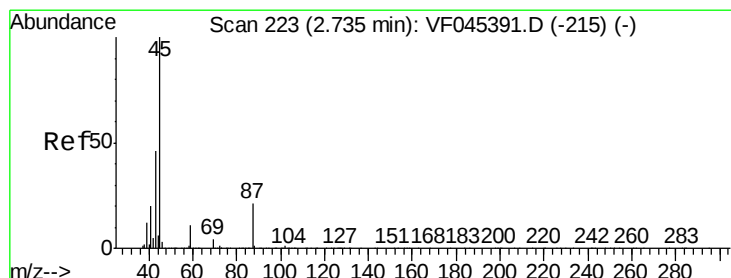
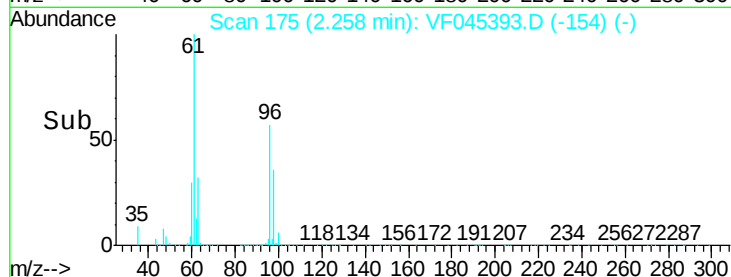
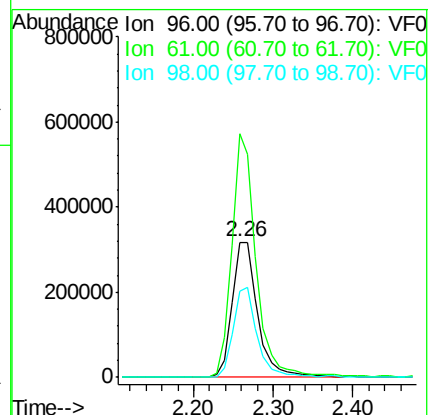
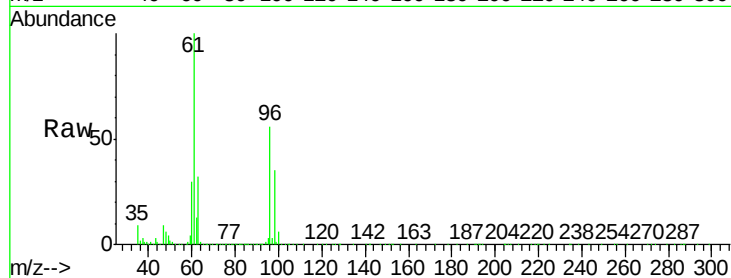
Tot Ion: 96 Resp: 716644

Ion Ratio Lower Upper

96 100

61 180.0 136.8 205.2

98 63.4 51.0 76.4



#22

Diisopropyl ether

Concen: 91.81 ug/l

RT: 2.75 min Scan# 225

Delta R.T. 0.02 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Tgt Ion: 45 Resp: 2085472

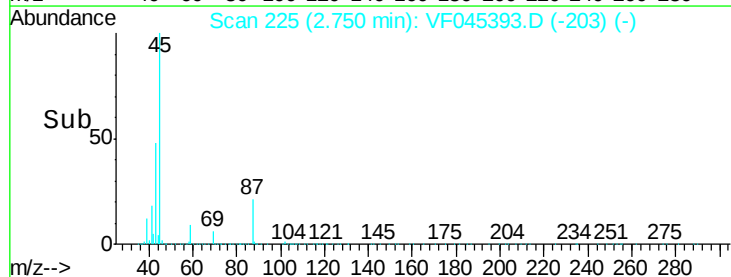
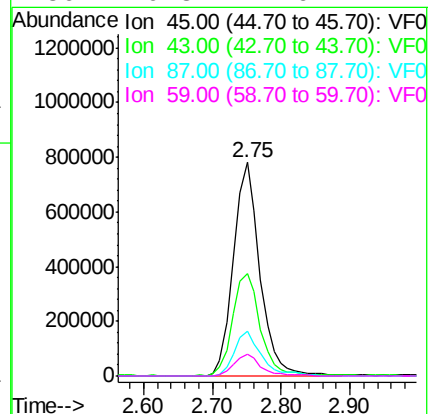
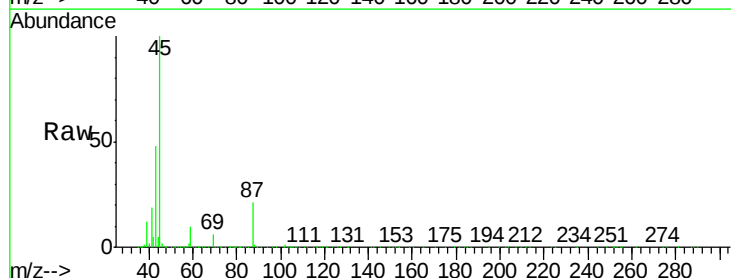
Ion Ratio Lower Upper

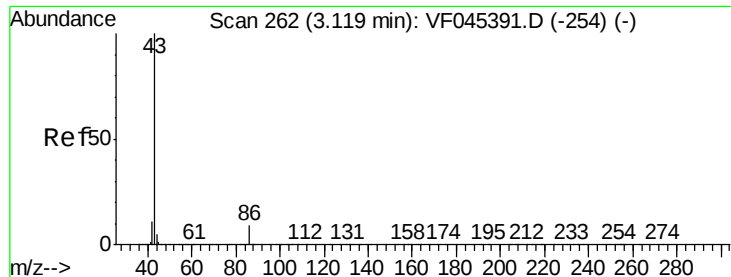
45 100

43 48.2 42.2 63.4

87 20.7 16.6 25.0

59 10.3 7.6 11.4





#23

Vinyl Acetate

Concen: 453.73 ug/l

RT: 3.12 min Scan# 263

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

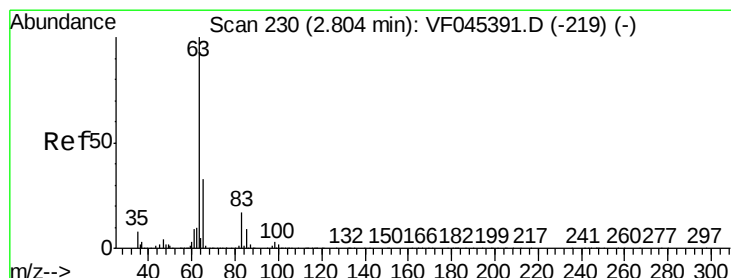
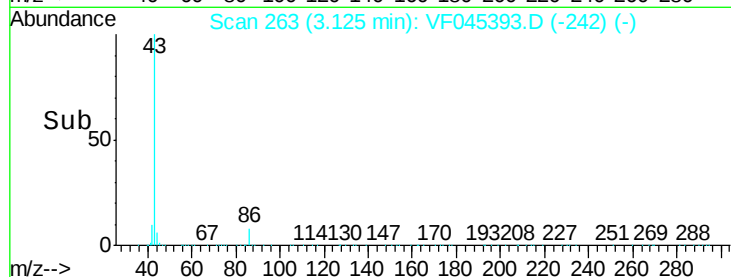
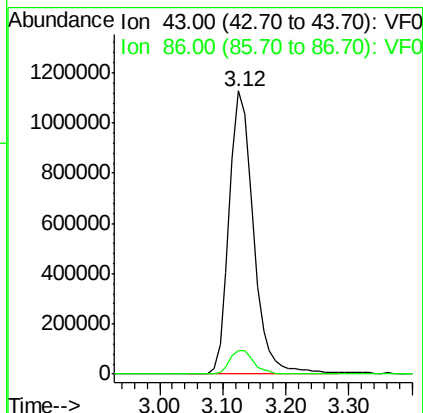
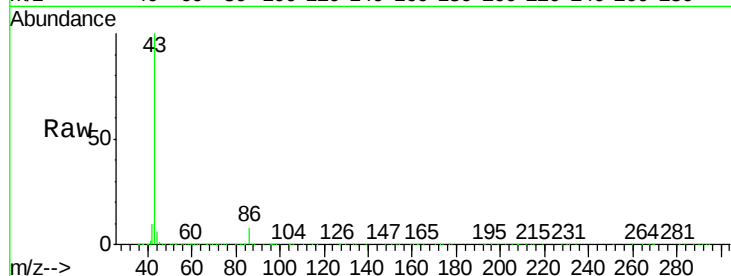
VSTDIC100

Tot Ion: 43 Resp: 3005315

Ion Ratio Lower Upper

43 100

86 8.3 6.3 9.5



#24

1,1-Dichloroethane

Concen: 92.72 ug/l

RT: 2.82 min Scan# 232

Delta R.T. 0.02 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

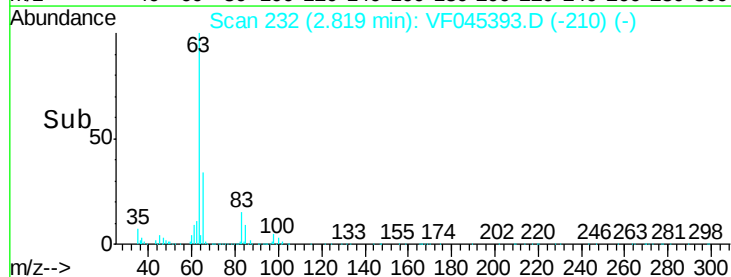
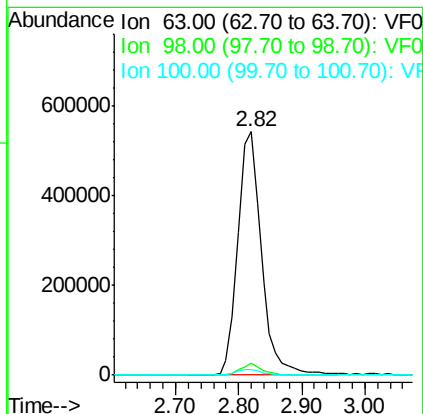
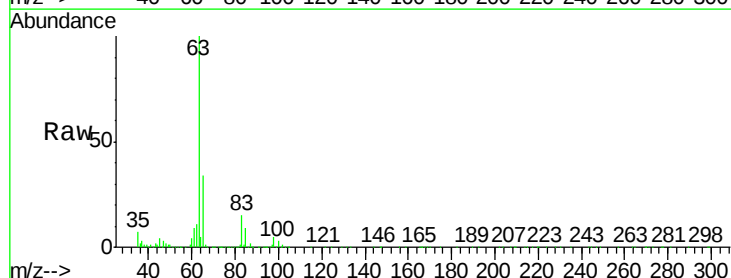
Tgt Ion: 63 Resp: 1400103

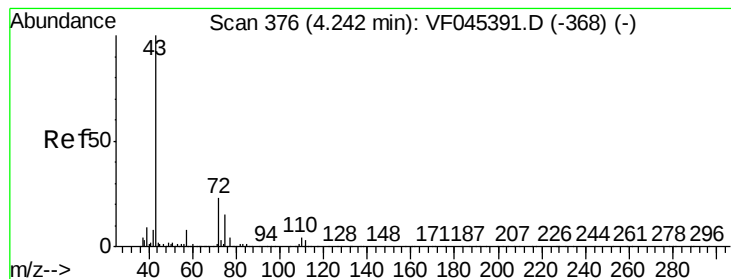
Ion Ratio Lower Upper

63 100

98 5.1 2.2 6.6

100 2.5 1.1 3.5





#25

2-Butanone

Concen: 471.66 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.02 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

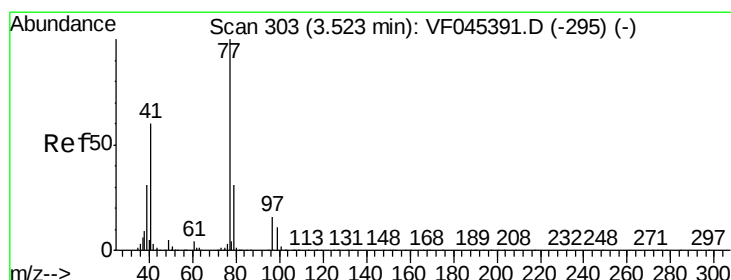
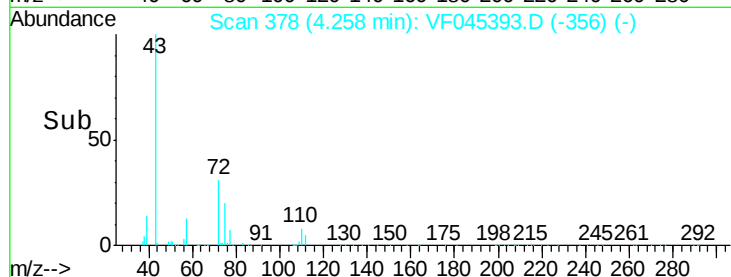
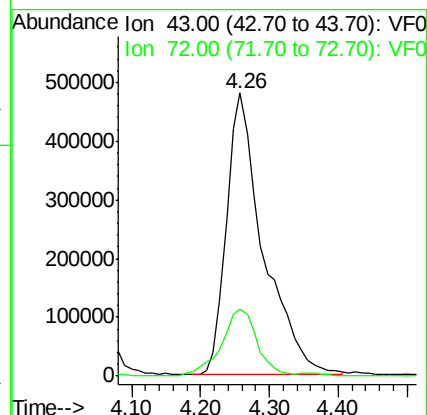
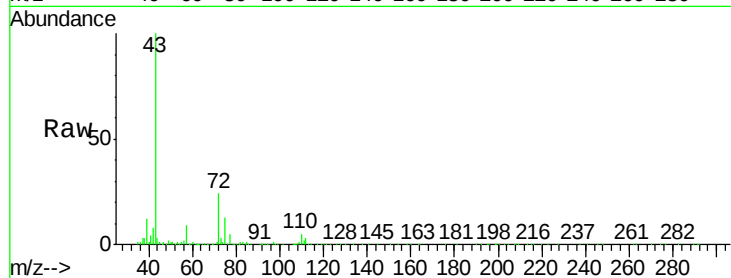
VSTDIC100

Tot Ion: 43 Resp: 1776938

Ion Ratio Lower Upper

43 100

72 23.6 20.2 30.2



#26

2,2-Dichloropropane

Concen: 96.20 ug/l

RT: 3.54 min Scan# 305

Delta R.T. 0.02 min

Lab File: VF045393.D

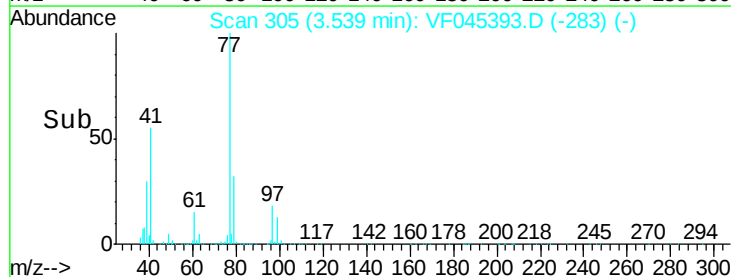
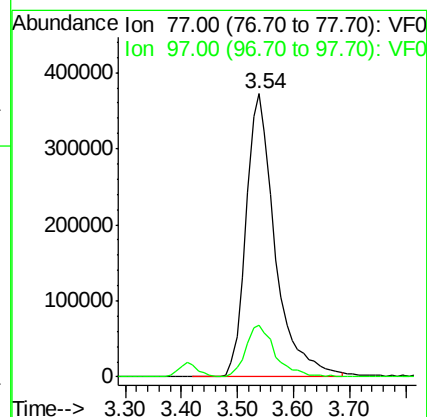
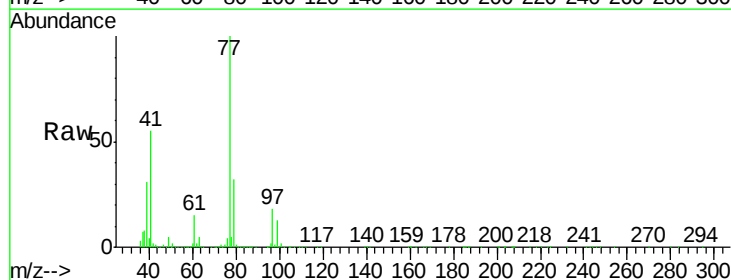
Acq: 16 Sep 2015 15:37

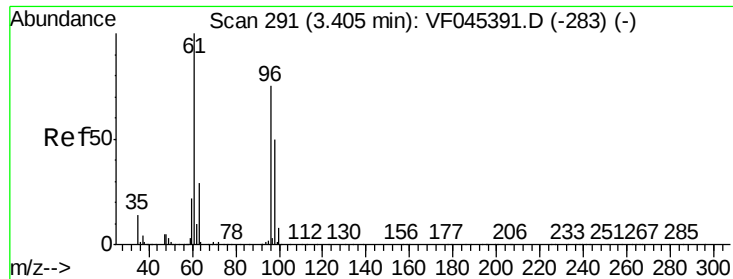
Tgt Ion: 77 Resp: 1334686

Ion Ratio Lower Upper

77 100

97 18.1 9.2 27.4



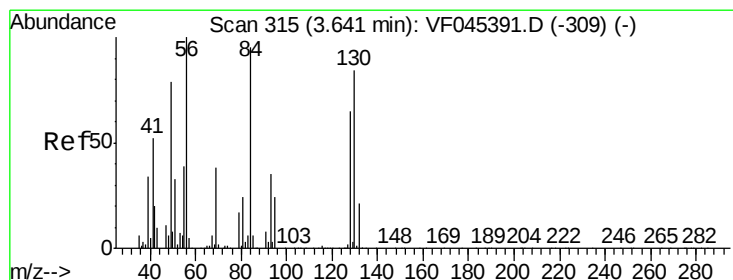
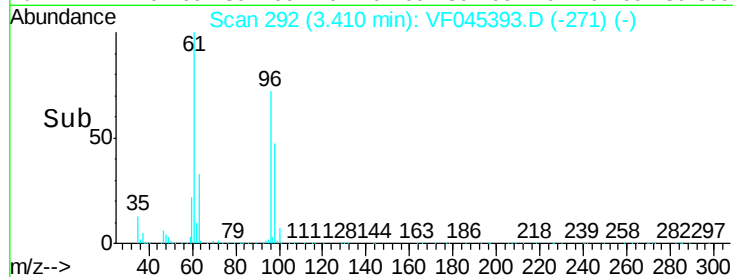
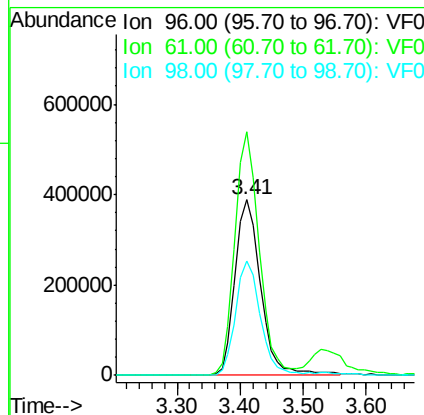
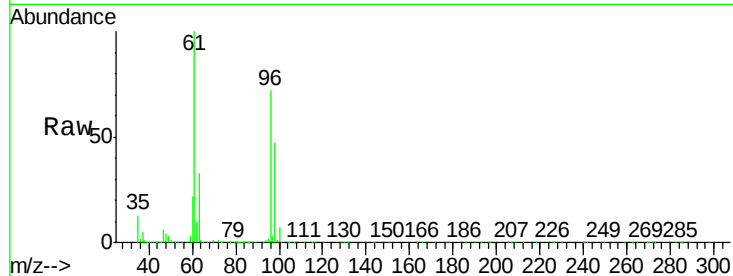


#27

cis-1,2-Dichloroethene  
 Concen: 95.07 ug/l  
 RT: 3.41 min Scan# 292  
 Delta R.T. 0.01 min  
 Lab File: VF045393.D  
 Acq: 16 Sep 2015 15:37

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC100

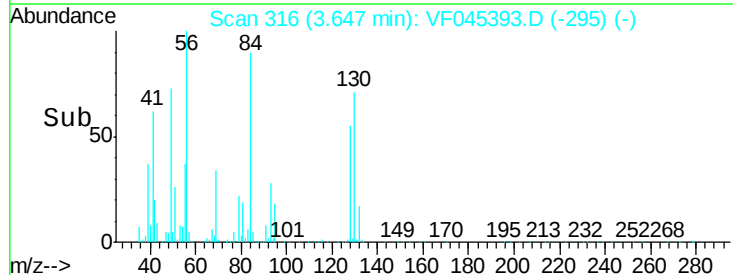
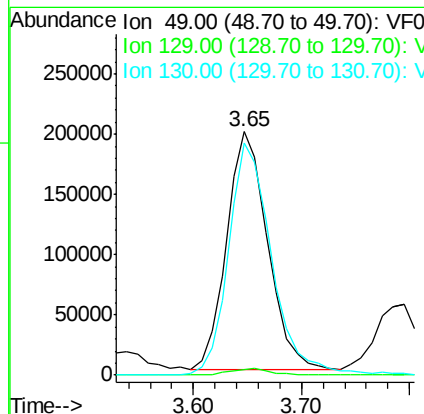
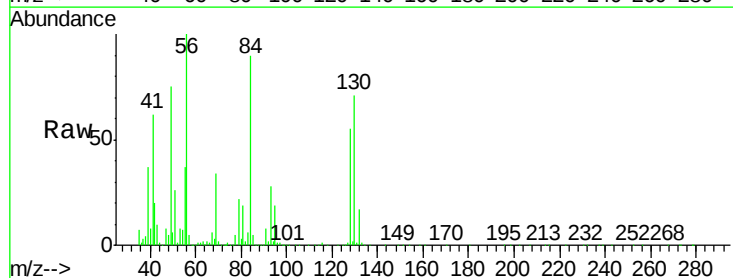
Tot Ion: 96 Resp: 1094840  
 Ion Ratio Lower Upper  
 96 100  
 61 138.7 0.0 268.6  
 98 65.5 0.0 135.8

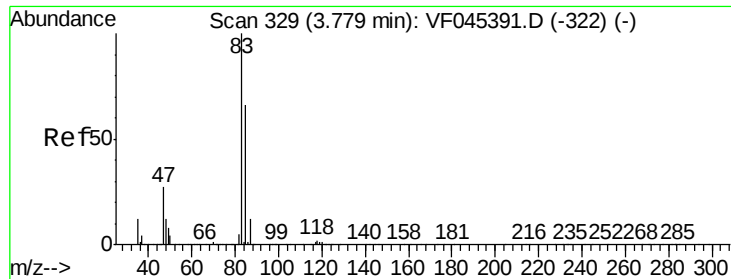


#28

Bromochloromethane  
 Concen: 84.67 ug/l  
 RT: 3.65 min Scan# 316  
 Delta R.T. 0.01 min  
 Lab File: VF045393.D  
 Acq: 16 Sep 2015 15:37

Tgt Ion: 49 Resp: 517754  
 Ion Ratio Lower Upper  
 49 100  
 129 2.1 0.0 0.0#  
 130 95.2 79.6 119.4





#29

Chloroform

Concen: 90.38 ug/l

RT: 3.78 min Scan# 330

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

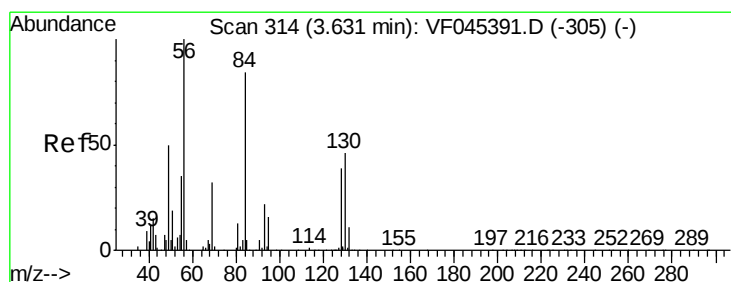
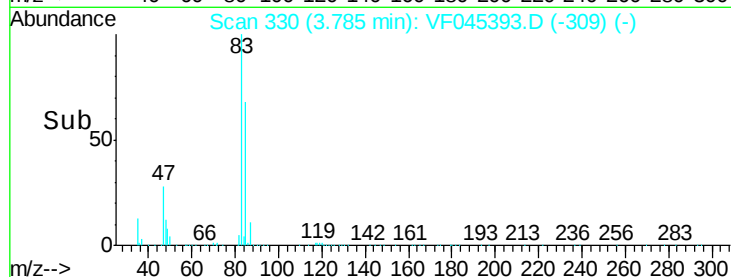
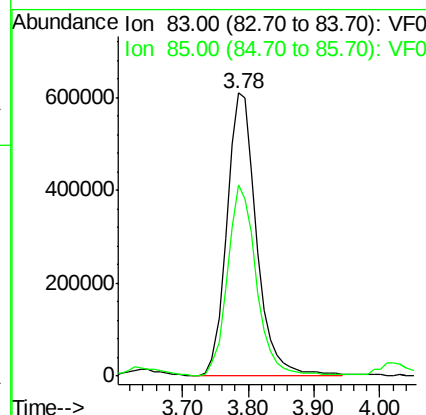
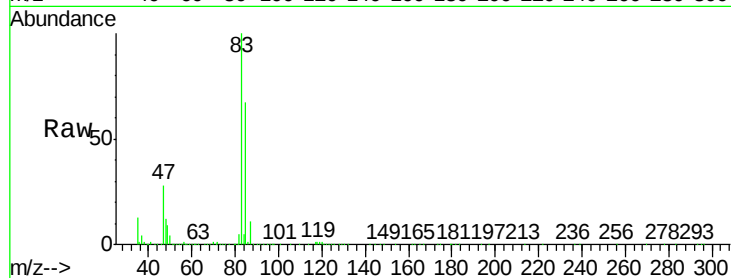
VSTDIC100

Tot Ion: 83 Resp: 1913326

Ion Ratio Lower Upper

83 100

85 67.5 51.6 77.4



#30

Cyclohexane

Concen: 88.33 ug/l

RT: 3.64 min Scan# 315

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

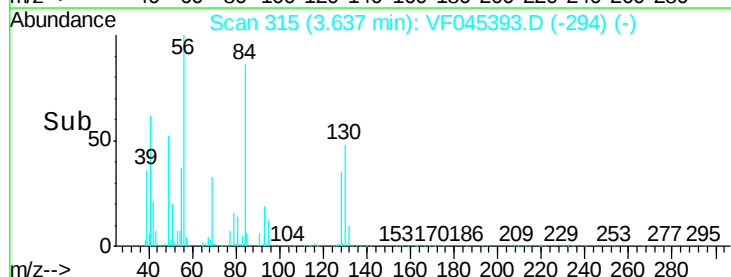
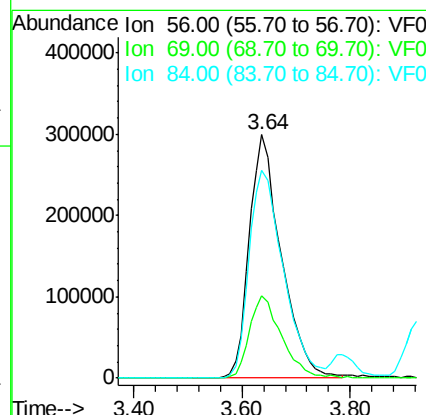
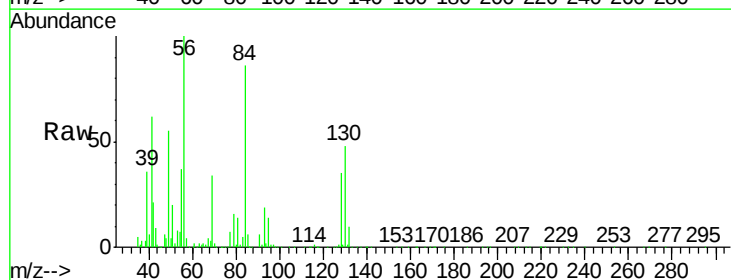
Tgt Ion: 56 Resp: 1230364

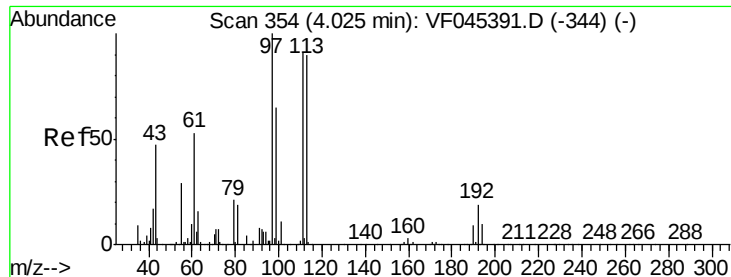
Ion Ratio Lower Upper

56 100

69 33.6 26.1 39.1

84 85.6 72.2 108.4





#31

1,1,1-Trichloroethane

Concen: 93.12 ug/l

RT: 4.03 min Scan# 355

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

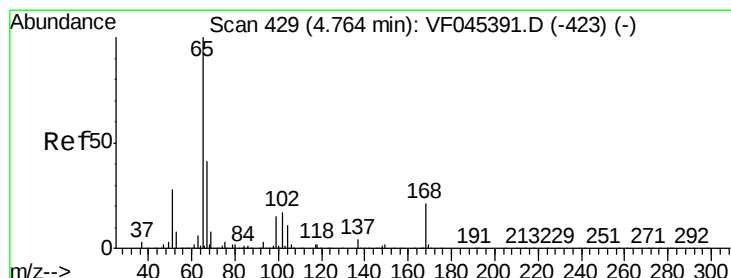
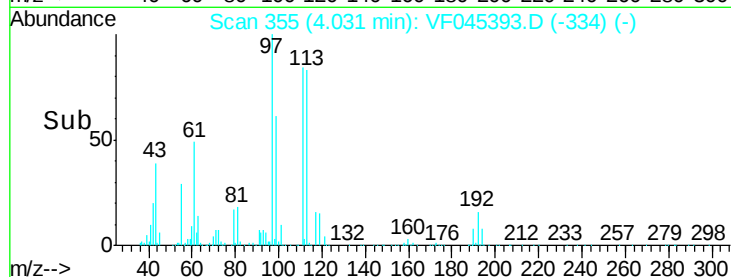
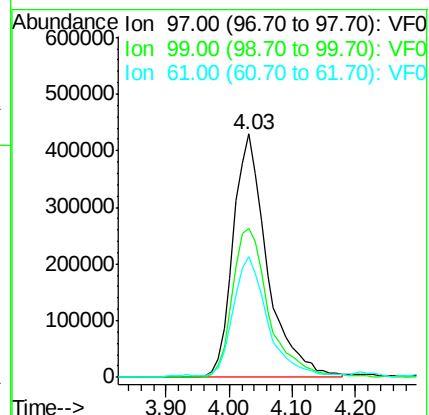
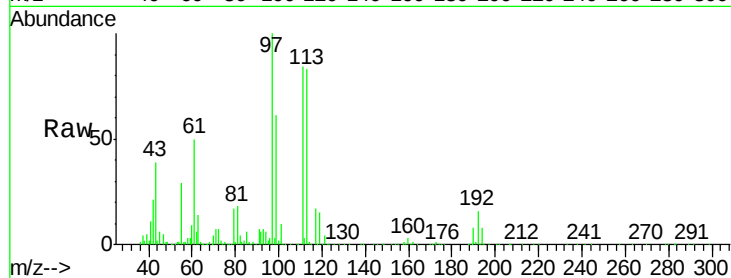
Tot Ion: 97 Resp: 1610236

Ion Ratio Lower Upper

97 100

99 61.2 51.1 76.7

61 49.7 37.8 56.6



#32

1,2-Dichloroethane-d4

Concen: 99.51 ug/l

RT: 4.78 min Scan# 431

Delta R.T. 0.02 min

Lab File: VF045393.D

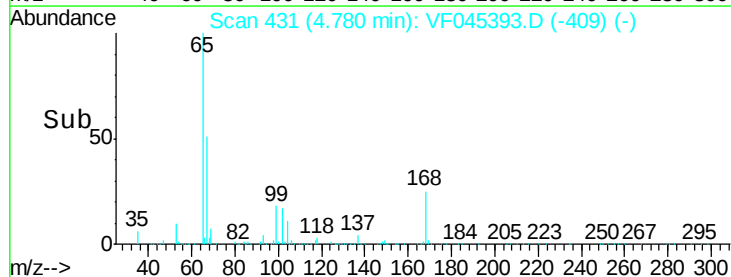
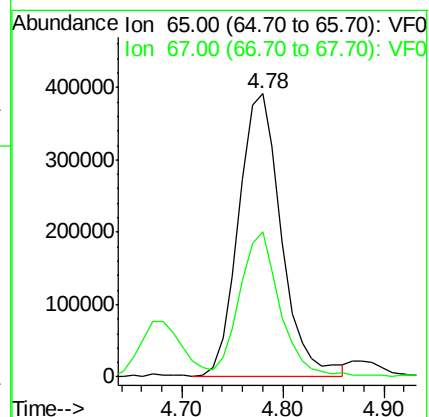
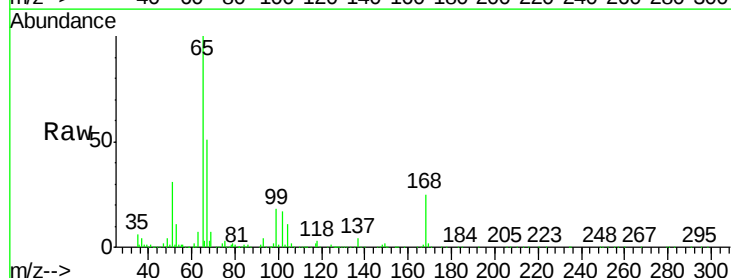
Acq: 16 Sep 2015 15:37

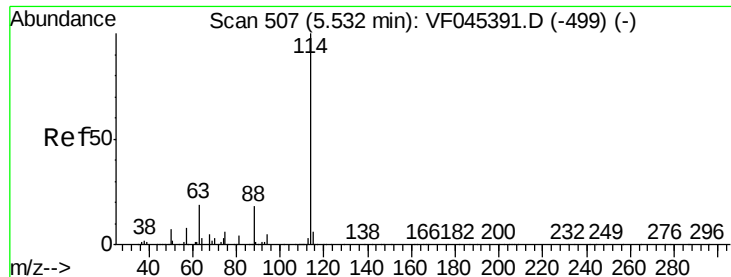
Tgt Ion: 65 Resp: 1144282

Ion Ratio Lower Upper

65 100

67 51.3 0.0 102.2

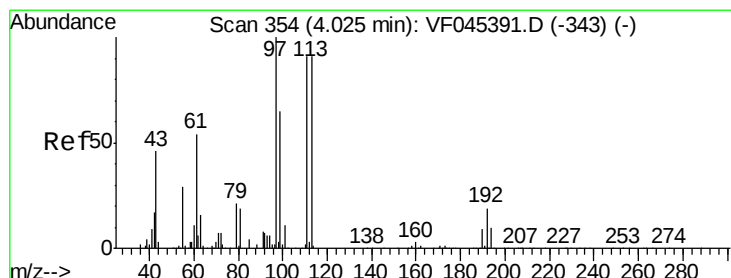
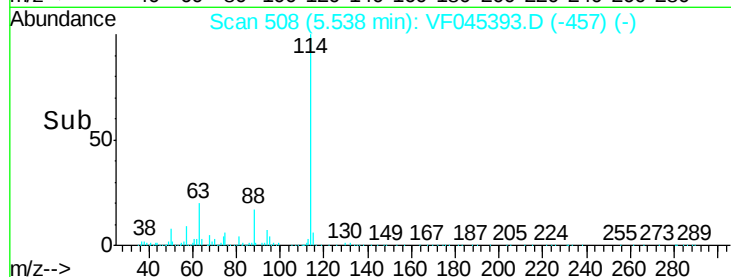
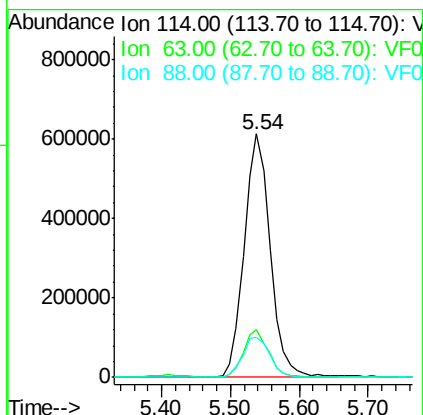
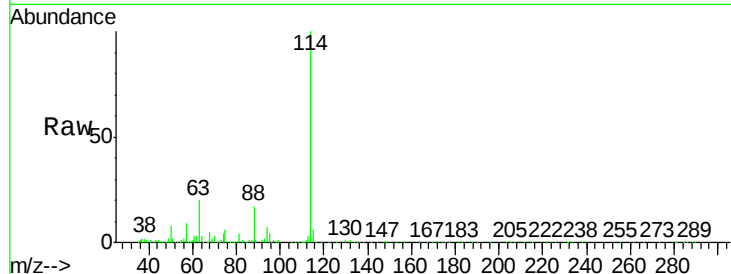




#33  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 5.54 min Scan# 508  
Delta R.T. 0.01 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

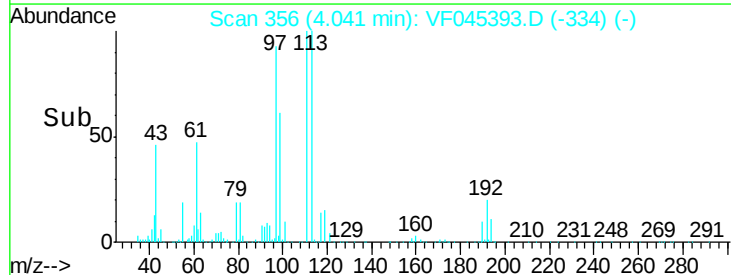
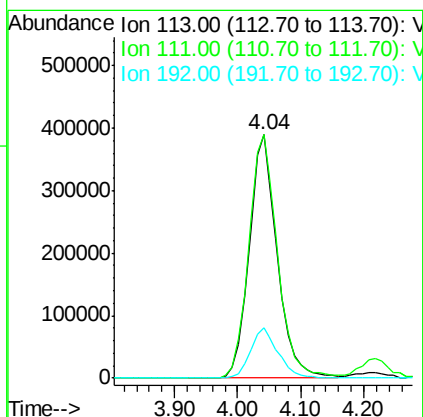
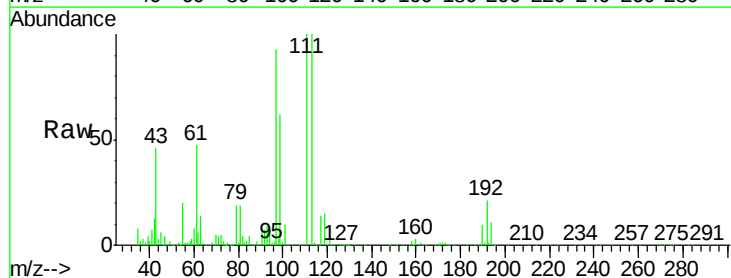
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC100

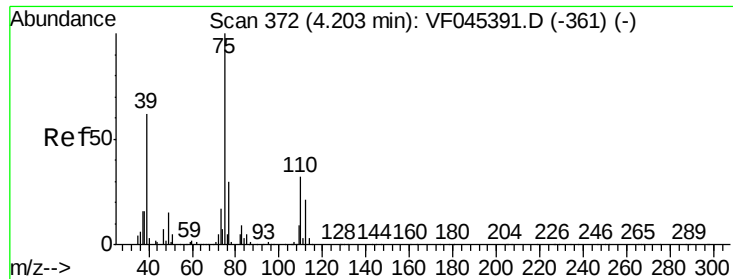
Tot Ion:114 Resp: 1608915  
Ion Ratio Lower Upper  
114 100  
63 19.6 0.0 39.2  
88 16.7 0.0 37.0



#34  
Dibromofluoromethane  
Concen: 96.90 ug/l  
RT: 4.04 min Scan# 356  
Delta R.T. 0.02 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

Tgt Ion:113 Resp: 1201130  
Ion Ratio Lower Upper  
113 100  
111 100.1 75.5 113.3  
192 20.5 15.6 23.4

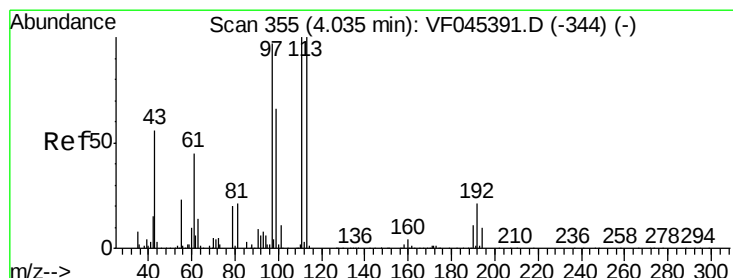
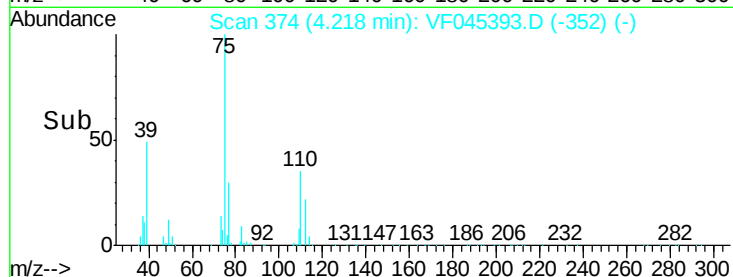
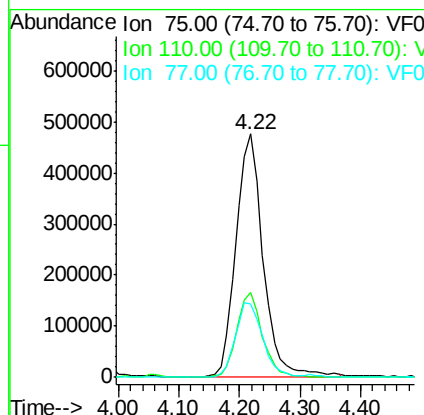
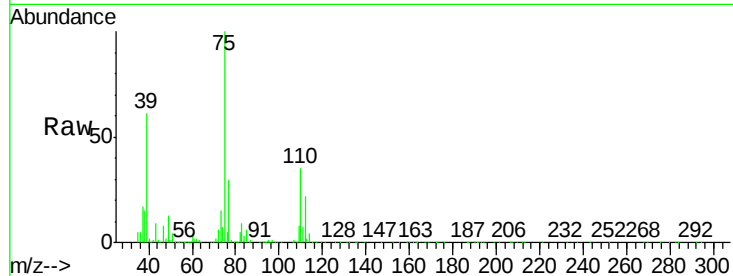




#35  
 1,1-Dichloropropene  
 Concen: 96.55 ug/l  
 RT: 4.22 min Scan# 374  
 Delta R.T. 0.02 min  
 Lab File: VF045393.D  
 Acq: 16 Sep 2015 15:37

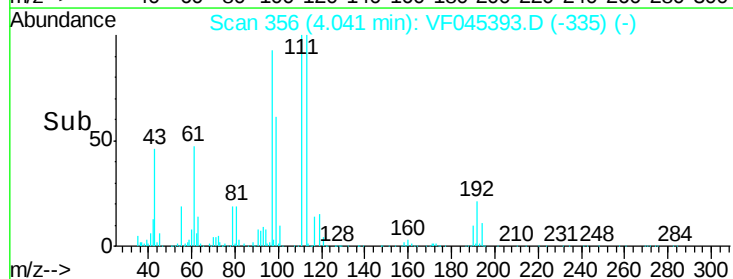
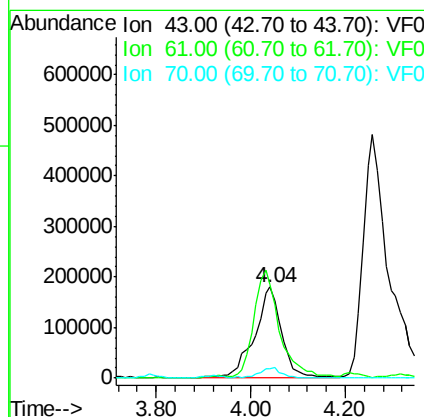
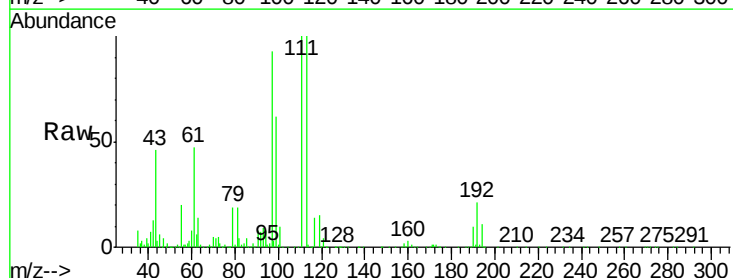
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC100

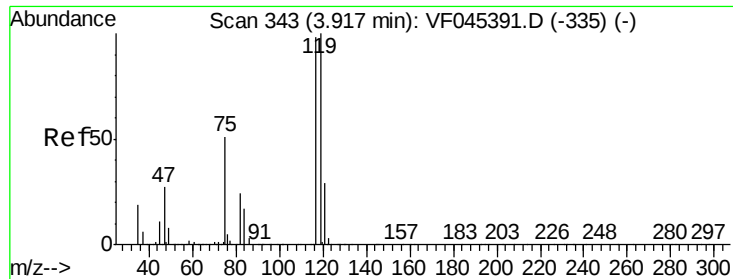
Tot Ion: 75 Resp: 1479751  
 Ion Ratio Lower Upper  
 75 100  
 110 34.6 15.9 47.6  
 77 30.0 24.2 36.4



#36  
 Ethyl Acetate  
 Concen: 91.07 ug/l  
 RT: 4.04 min Scan# 356  
 Delta R.T. 0.01 min  
 Lab File: VF045393.D  
 Acq: 16 Sep 2015 15:37

Tgt Ion: 43 Resp: 714560  
 Ion Ratio Lower Upper  
 43 100  
 61 102.7 49.4 74.0#  
 70 10.0 10.8 16.2#





#37

Carbon Tetrachloride

Concen: 98.40 ug/l

RT: 3.92 min Scan# 344

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

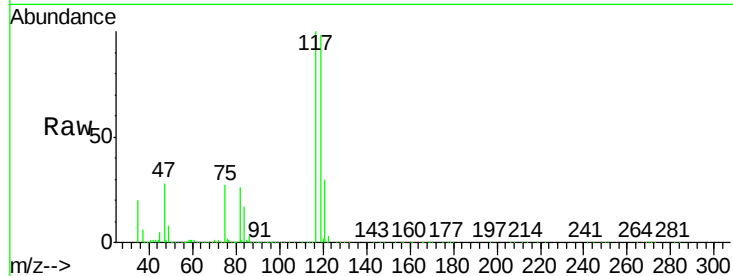
Tot Ion:117 Resp: 1553360

Ion Ratio Lower Upper

117 100

119 97.8 77.8 116.8

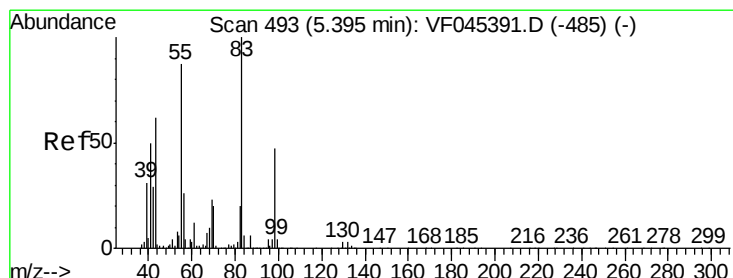
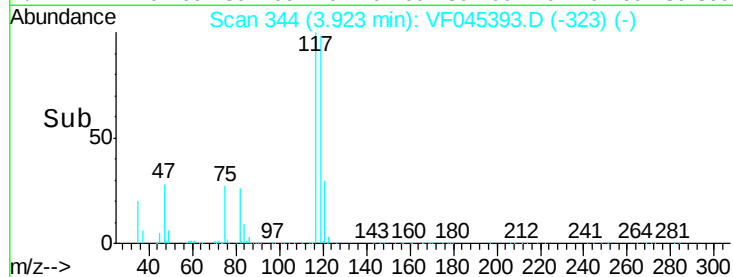
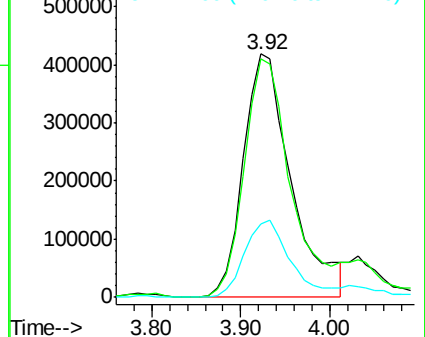
121 30.1 25.4 38.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#38

Methylcyclohexane

Concen: 90.86 ug/l

RT: 5.40 min Scan# 494

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

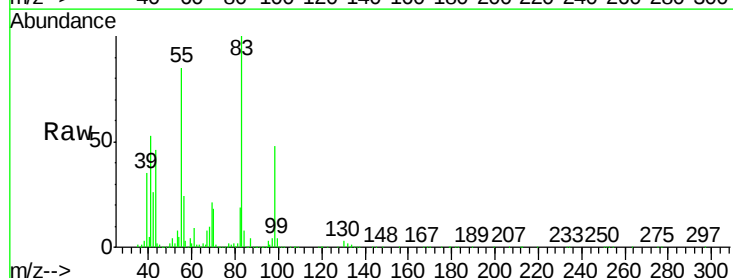
Tgt Ion: 83 Resp: 1506373

Ion Ratio Lower Upper

83 100

55 85.1 60.5 90.7

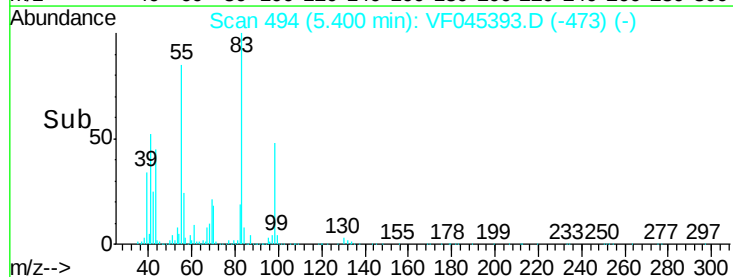
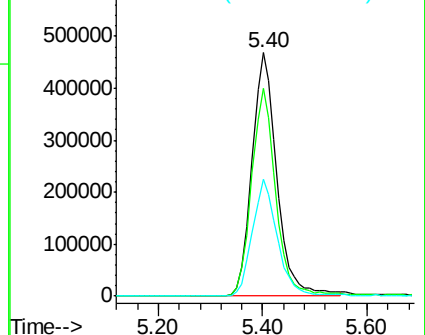
98 48.0 38.1 57.1

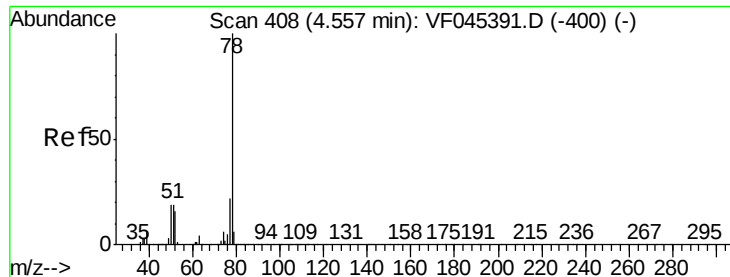


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#39

Benzene

Concen: 89.76 ug/l

RT: 4.57 min Scan# 410

Delta R.T. 0.02 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

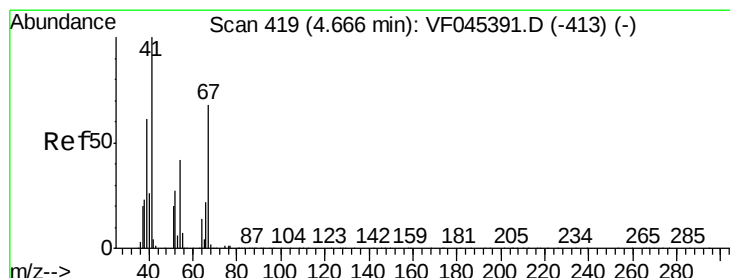
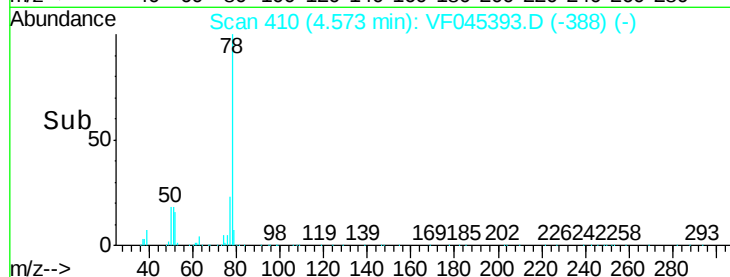
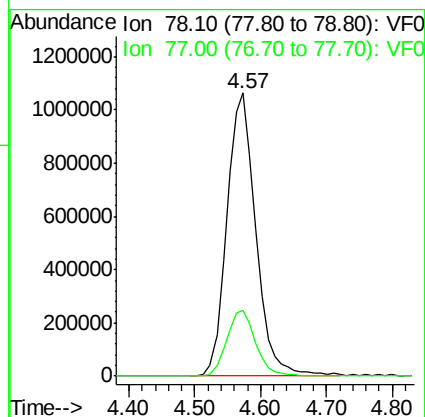
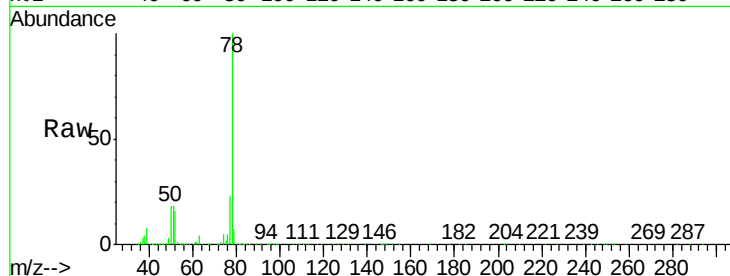
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC100

Tot Ion: 78 Resp: 3274962

Ion Ratio Lower Upper

78 100

77 23.3 18.6 28.0



#40

Methacrylonitrile

Concen: 93.62 ug/l

RT: 4.68 min Scan# 421

Delta R.T. 0.02 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Tgt Ion: 41 Resp: 346963

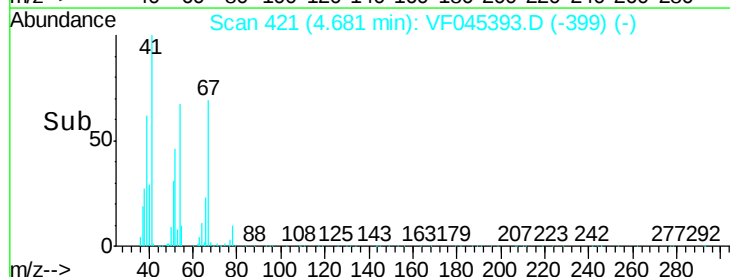
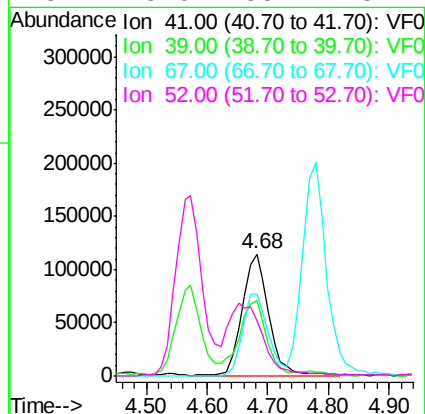
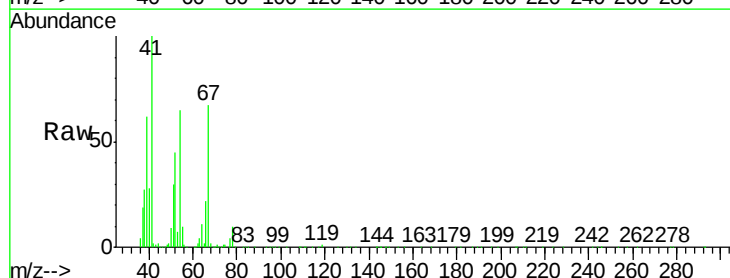
Ion Ratio Lower Upper

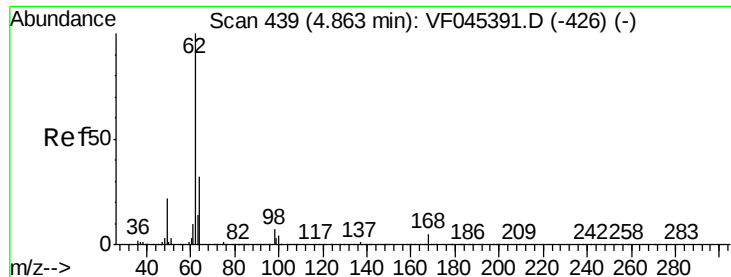
41 100

39 62.0 44.9 67.3

67 67.4 49.0 73.4

52 45.0 38.2 57.2





#41

1,2-Dichloroethane

Concen: 94.59 ug/l

RT: 4.87 min Scan# 440

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

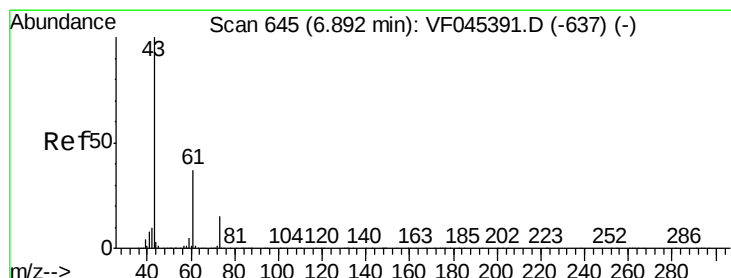
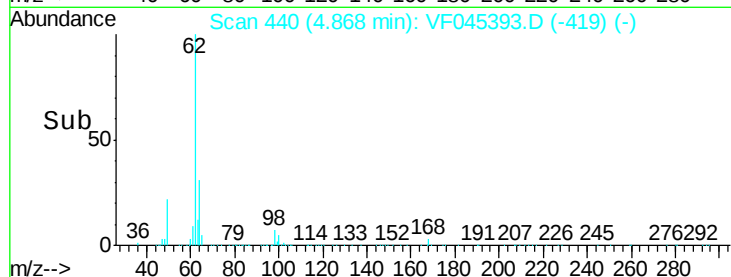
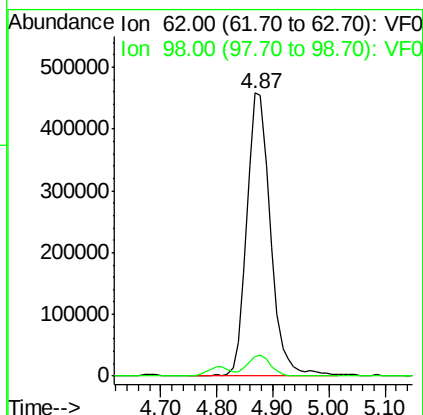
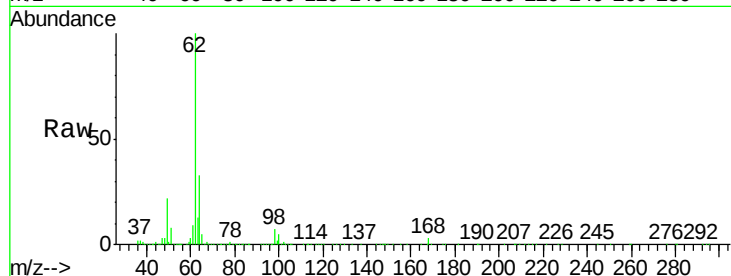
VSTDIC100

Tot Ion: 62 Resp: 1346003

Ion Ratio Lower Upper

62 100

98 7.1 0.0 17.0



#42

Isopropyl Acetate

Concen: 93.66 ug/l

RT: 6.90 min Scan# 646

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

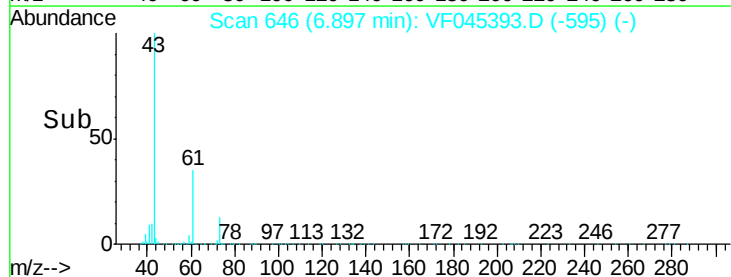
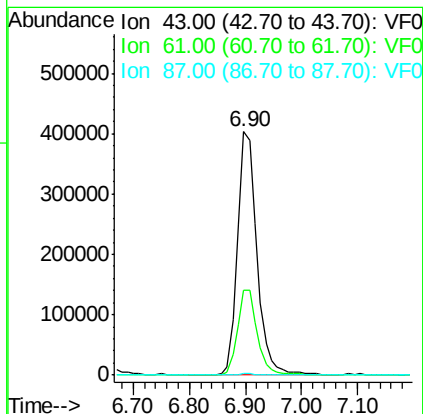
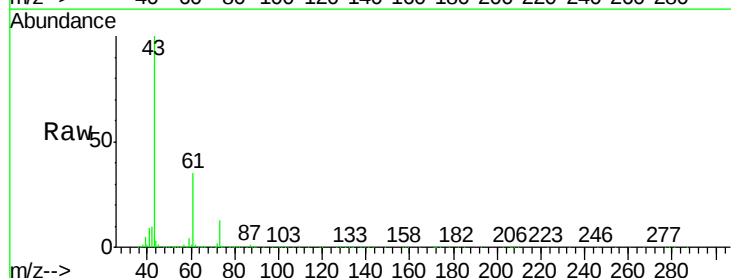
Tgt Ion: 43 Resp: 972697

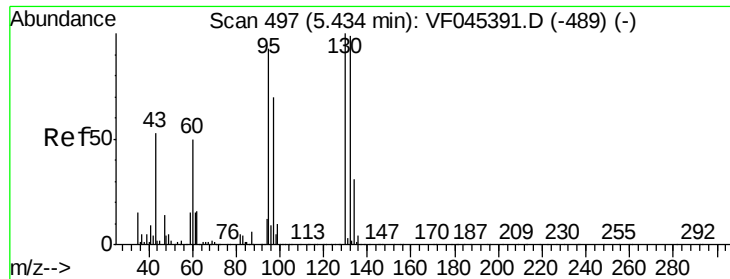
Ion Ratio Lower Upper

43 100

61 34.9 29.8 44.6

87 0.6 0.2 0.2#





#43

Trichloroethene

Concen: 91.46 ug/l

RT: 5.44 min Scan# 498

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

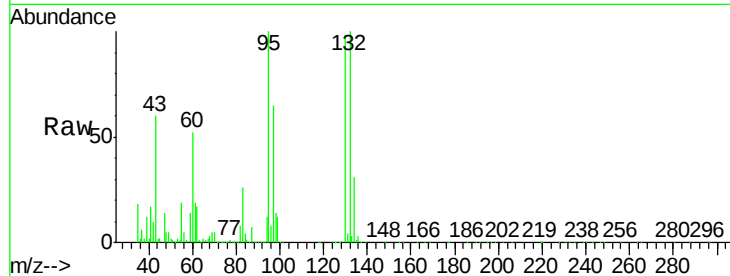
VSTDIC100

Tot Ion:130 Resp: 1112132

Ion Ratio Lower Upper

130 100

95 102.2 0.0 192.2



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

400000

300000

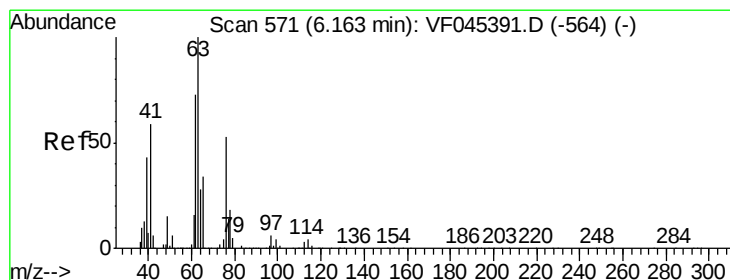
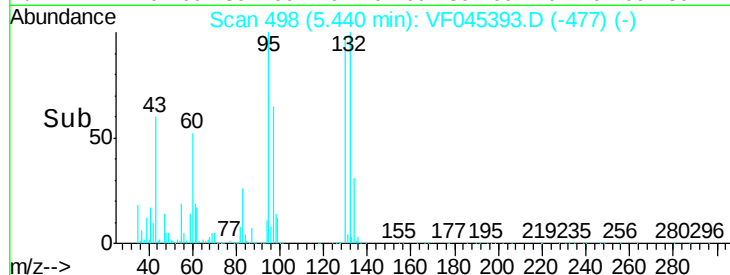
200000

100000

0

5.30 5.40 5.50 5.60

Time-->



#44

1,2-Dichloropropane

Concen: 89.53 ug/l

RT: 6.17 min Scan# 572

Delta R.T. 0.01 min

Lab File: VF045393.D

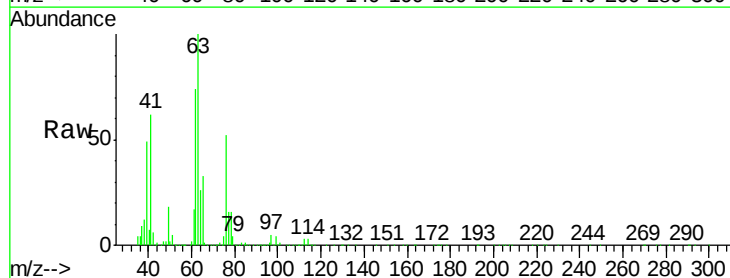
Acq: 16 Sep 2015 15:37

Tgt Ion: 63 Resp: 955037

Ion Ratio Lower Upper

63 100

65 32.7 25.6 38.4



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

400000

300000

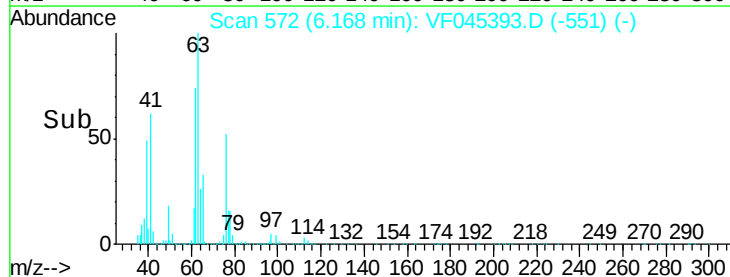
200000

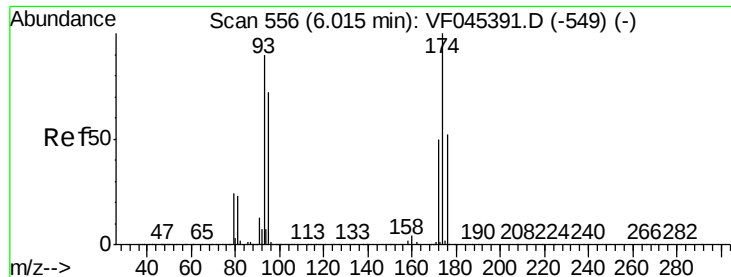
100000

0

6.00 6.10 6.20 6.30

Time-->





#45

Dibromomethane

Concen: 94.71 ug/l

RT: 6.02 min Scan# 557

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

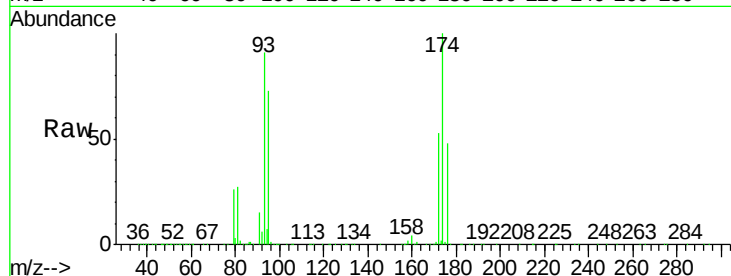
Tot Ion: 93 Resp: 697678

Ion Ratio Lower Upper

93 100

95 80.5 69.8 104.6

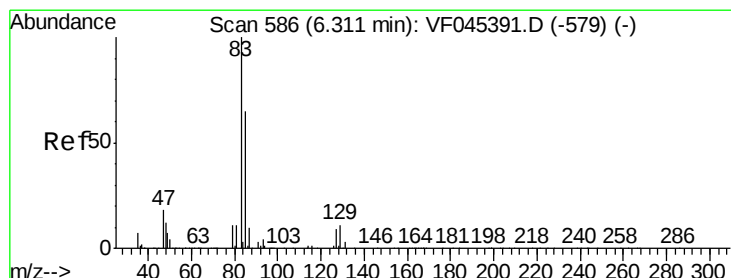
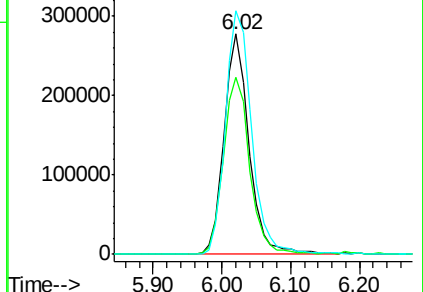
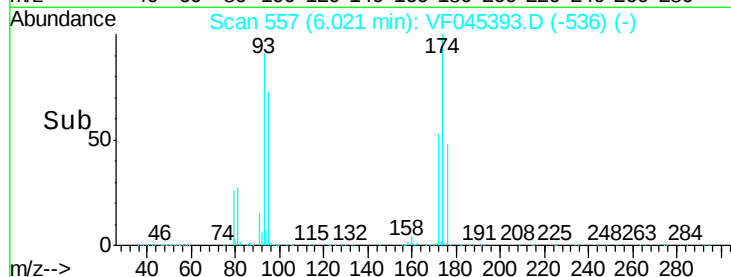
174 110.5 90.5 135.7



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V



#46

Bromodichloromethane

Concen: 90.81 ug/l

RT: 6.32 min Scan# 587

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

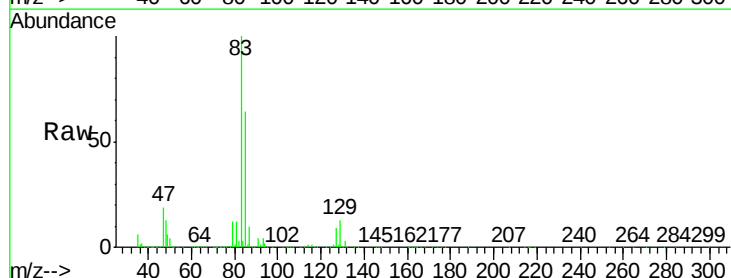
Tgt Ion: 83 Resp: 1508282

Ion Ratio Lower Upper

83 100

85 64.0 50.6 75.8

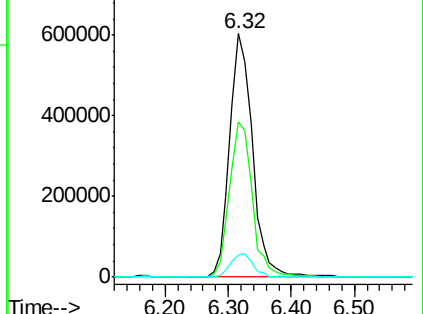
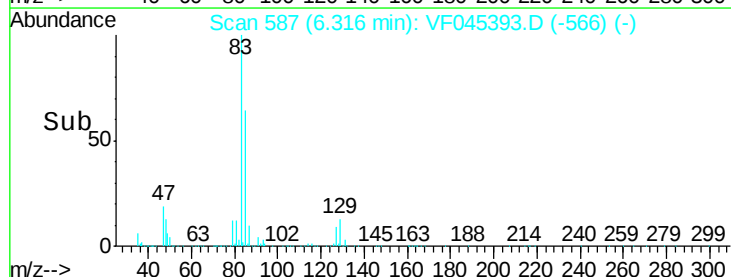
127 9.0 7.7 11.5

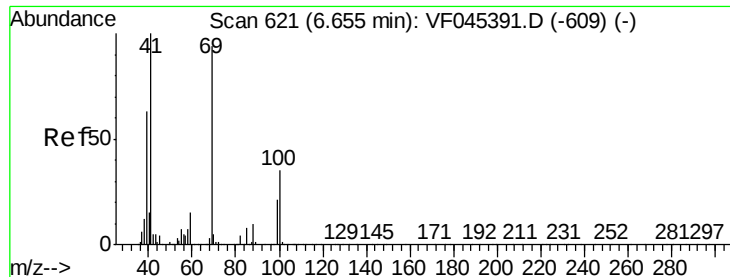


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V

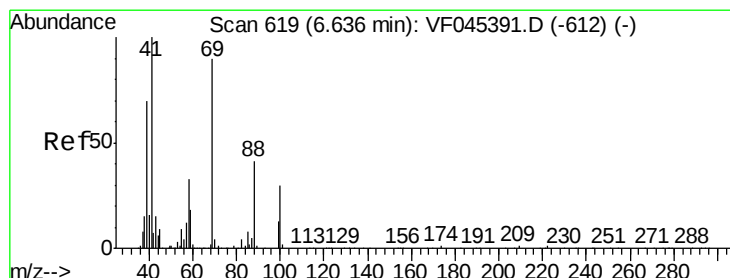
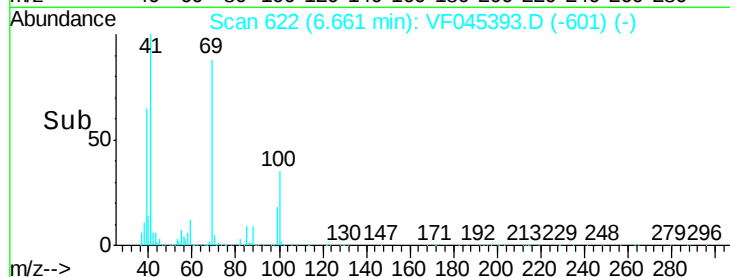
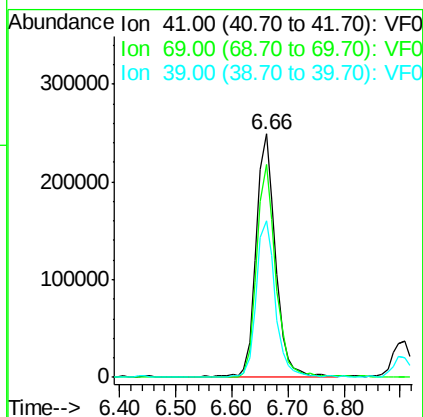
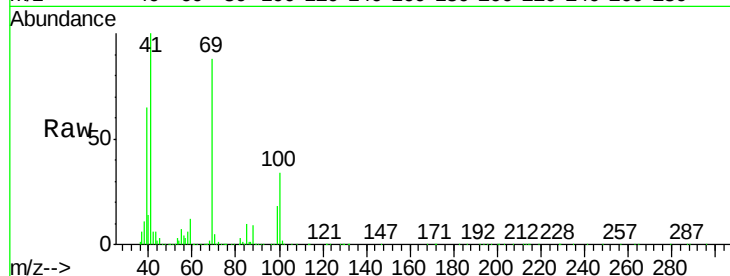




#47  
Methvl methacrylate  
Concen: 95.15 ug/l  
RT: 6.66 min Scan# 622  
Delta R.T. 0.01 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

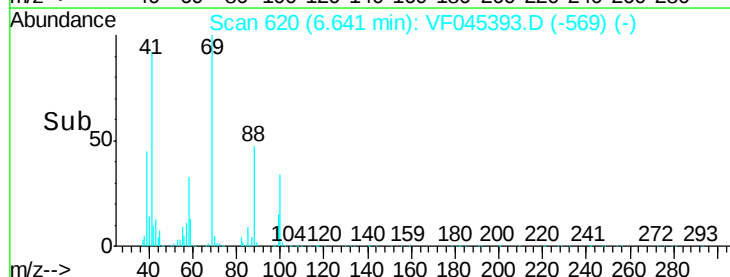
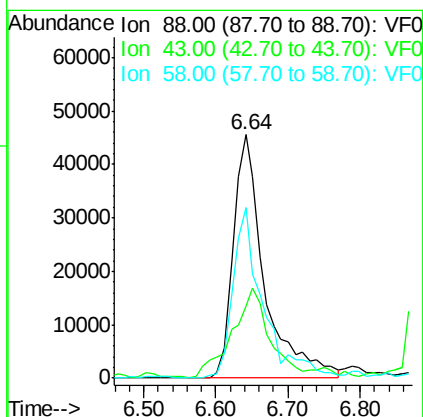
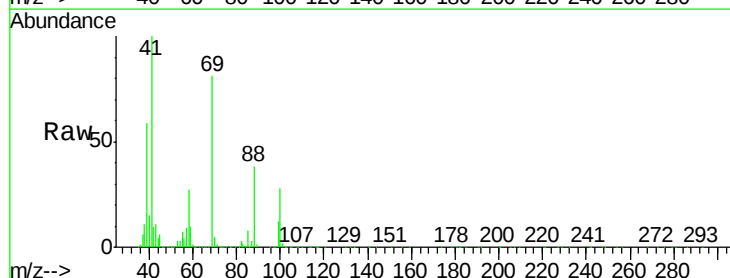
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC100

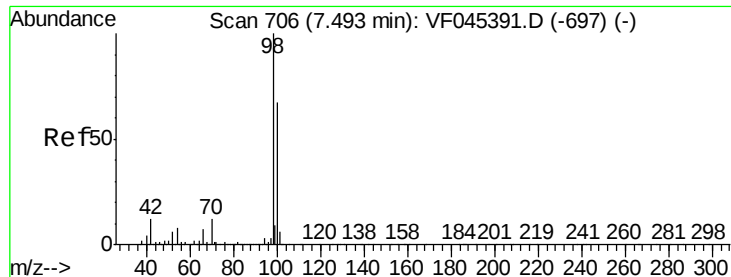
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 87.6  | 63.3  | 94.9  |
| 39      | 64.5  | 48.9  | 73.3  |



#48  
1,4-Dioxane  
Concen: 1848.71 ug/l  
RT: 6.64 min Scan# 620  
Delta R.T. 0.01 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 29.5  | 34.5  | 51.7# |
| 58      | 70.2  | 46.5  | 69.7# |





#49

Toluene-d8

Concen: 91.05 ug/l

RT: 7.50 min Scan# 707

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

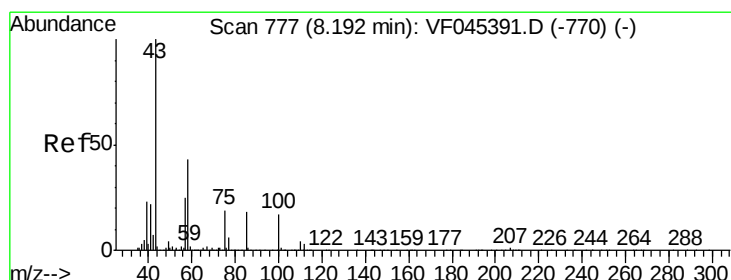
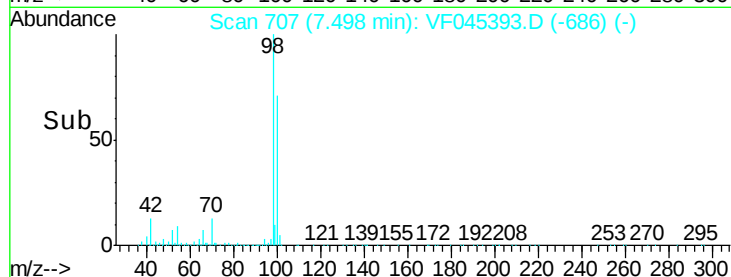
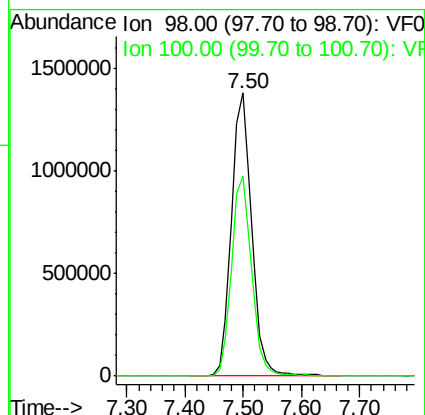
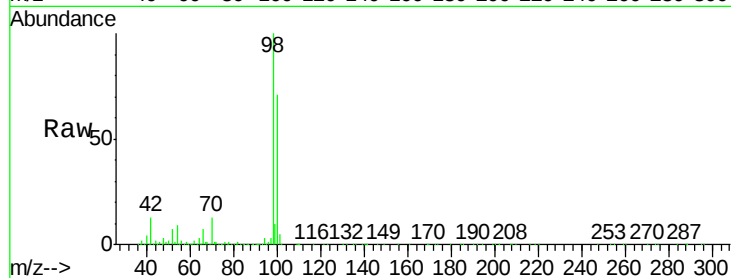
VSTDIC100

Tot Ion: 98 Resp: 3348503

Ion Ratio Lower Upper

98 100

100 70.7 54.4 81.6



#50

4-Methyl-2-Pentanone

Concen: 443.71 ug/l

RT: 8.20 min Scan# 778

Delta R.T. 0.01 min

Lab File: VF045393.D

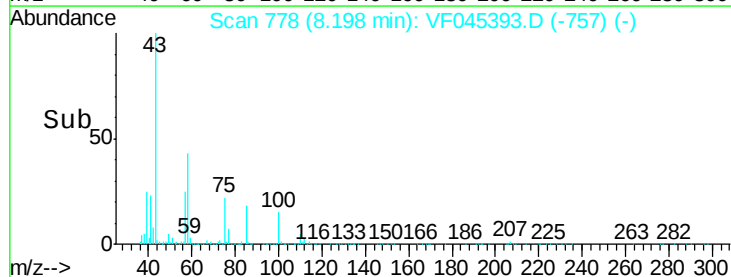
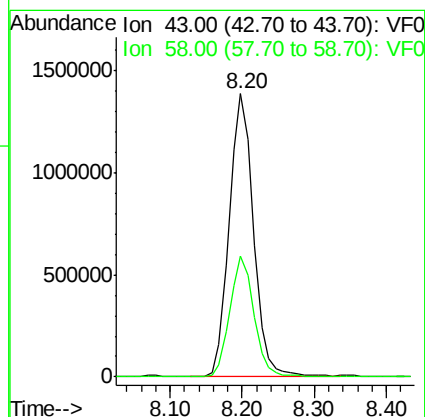
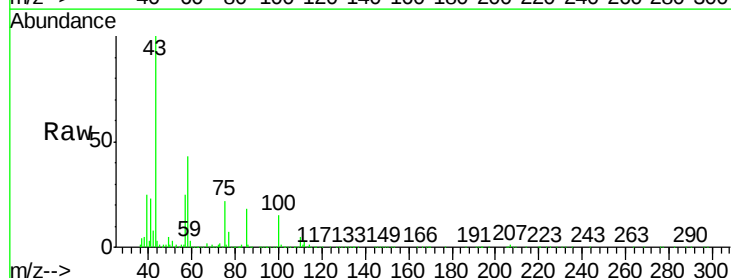
Acq: 16 Sep 2015 15:37

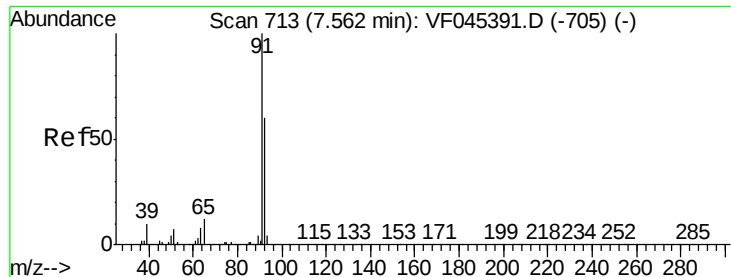
Tgt Ion: 43 Resp: 3259324

Ion Ratio Lower Upper

43 100

58 42.7 33.6 50.4





#51

Toluene

Concen: 88.05 ug/l

RT: 7.57 min Scan# 714

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

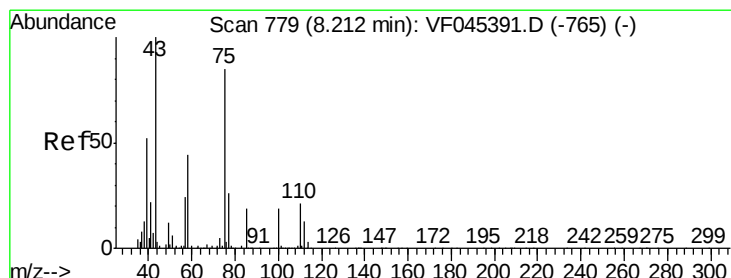
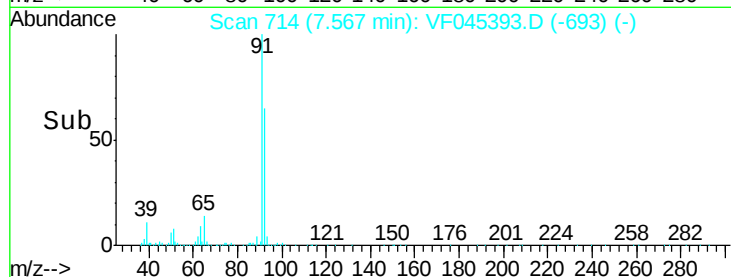
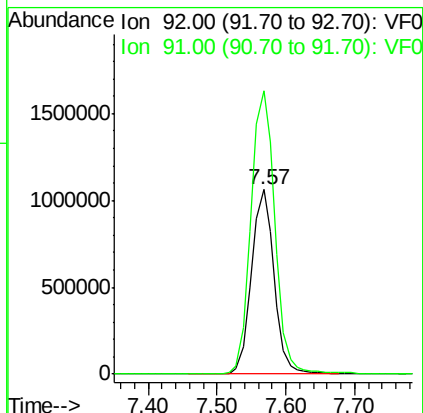
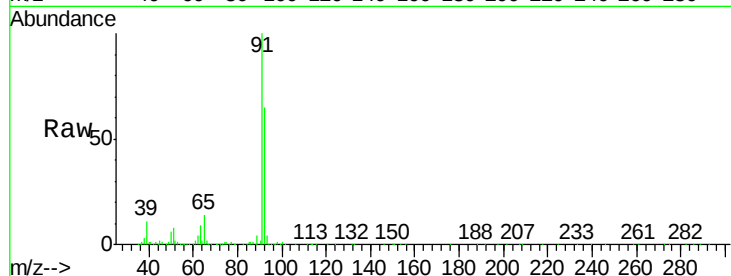
VSTDIC100

Tot Ion: 92 Resp: 2431958

Ion Ratio Lower Upper

92 100

91 153.5 133.4 200.0



#52

t-1,3-Dichloropropene

Concen: 95.52 ug/l

RT: 8.22 min Scan# 780

Delta R.T. 0.01 min

Lab File: VF045393.D

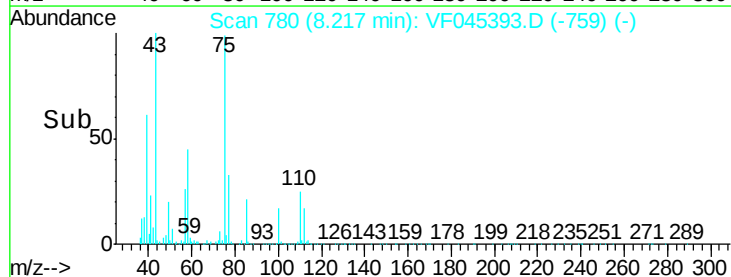
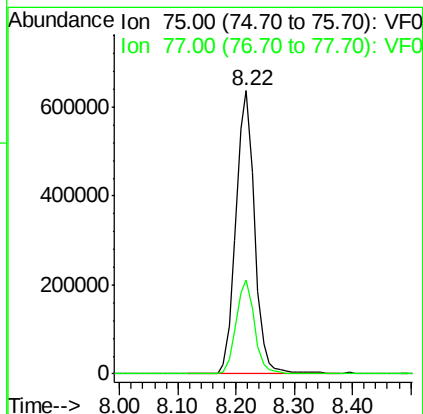
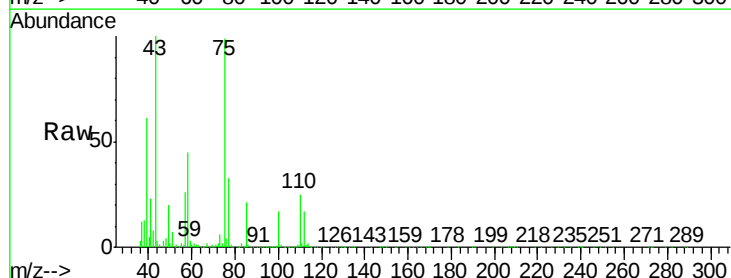
Acq: 16 Sep 2015 15:37

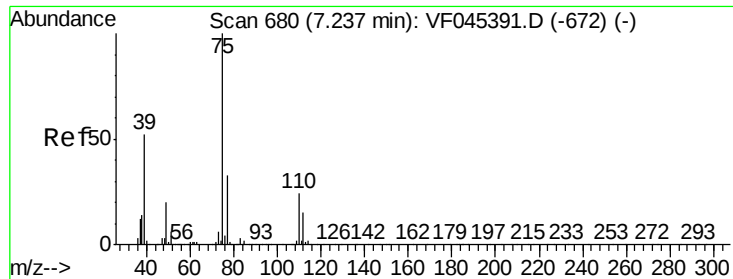
Tgt Ion: 75 Resp: 1421574

Ion Ratio Lower Upper

75 100

77 33.3 28.1 42.1



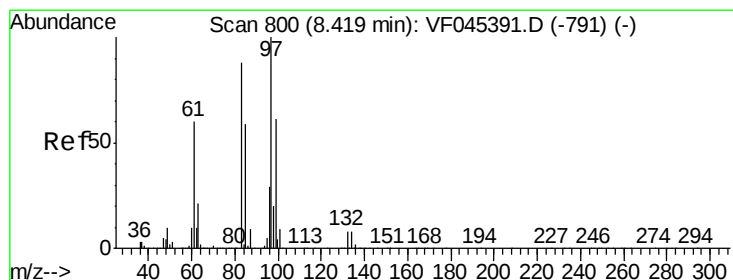
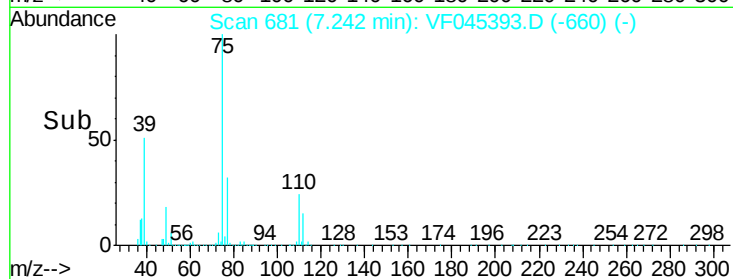
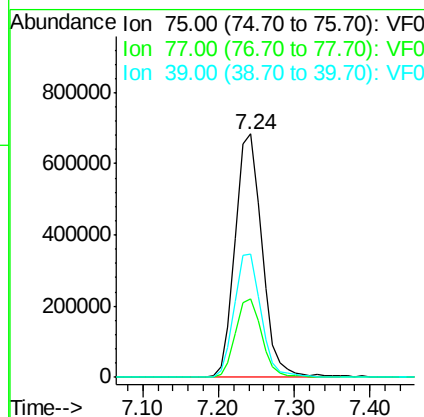
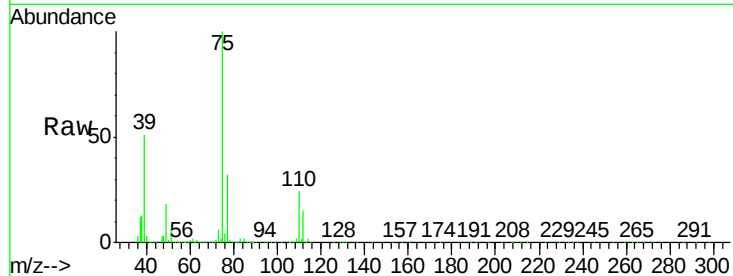


#53  
 cis-1,3-Dichloropropene  
 Concen: 94.82 ug/l  
 RT: 7.24 min Scan# 681  
 Delta R.T. 0.01 min  
 Lab File: VF045393.D  
 Acq: 16 Sep 2015 15:37

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC100

Tot Ion: 75 Resp: 1685290  

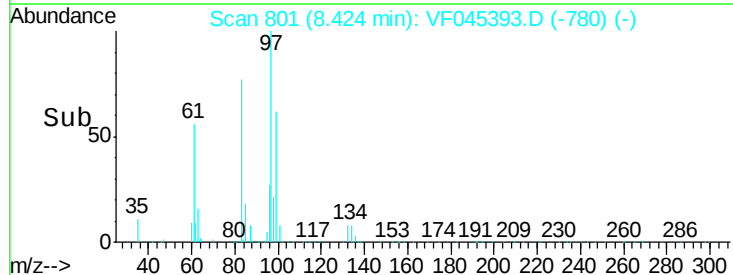
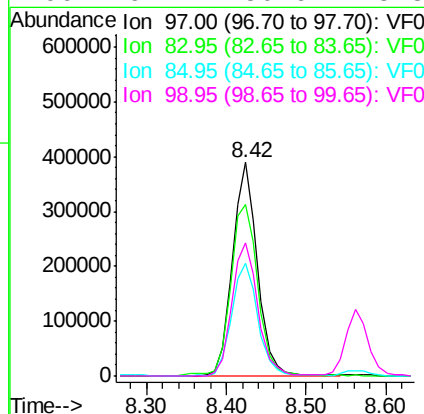
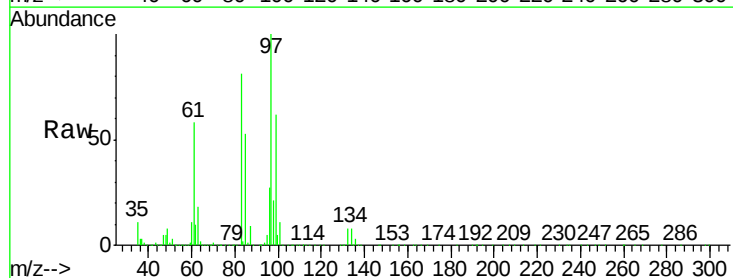
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 32.1  | 25.5  | 38.3  |
| 39  | 50.9  | 41.6  | 62.4  |

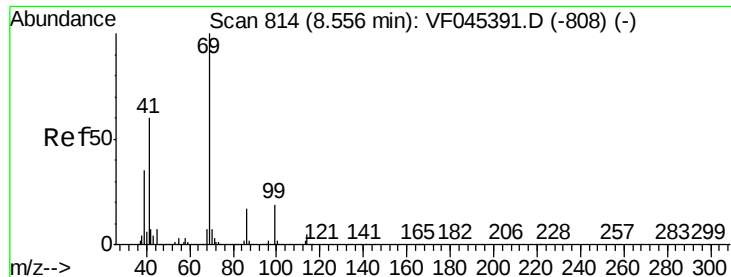


#54  
 1,1,2-Trichloroethane  
 Concen: 91.67 ug/l  
 RT: 8.42 min Scan# 801  
 Delta R.T. 0.01 min  
 Lab File: VF045393.D  
 Acq: 16 Sep 2015 15:37

Tgt Ion: 97 Resp: 853702  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 80.6  | 70.1  | 105.1 |
| 85  | 52.6  | 47.4  | 71.2  |
| 99  | 62.2  | 50.6  | 75.8  |





#55

Ethyl methacrylate

Concen: 94.47 ug/l

RT: 8.56 min Scan# 815

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

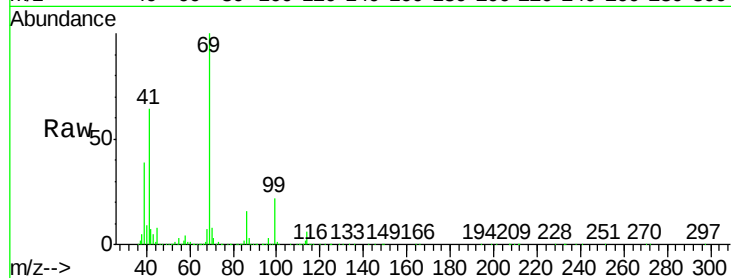
MSVOA\_F

ClientSampleId :

VSTDIC100

Tot Ion: 69 Resp: 1145072

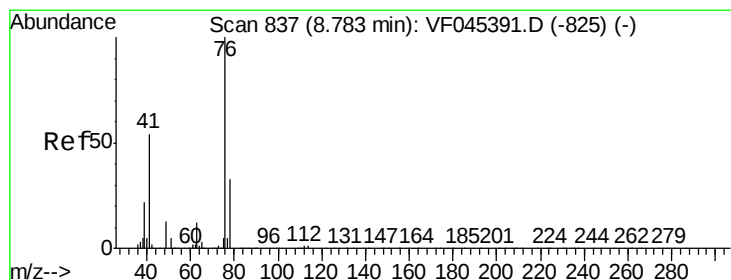
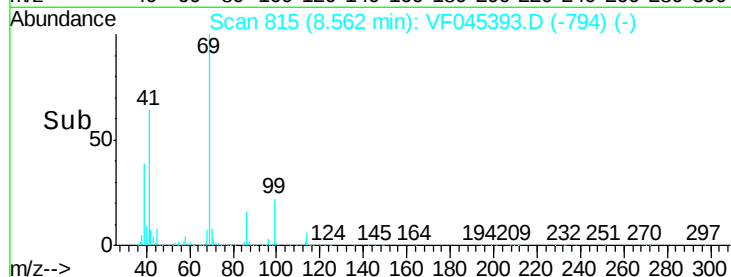
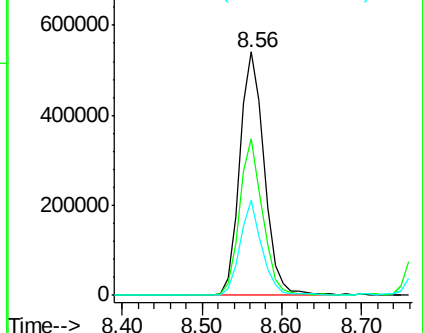
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 64.3  | 51.0  | 76.4  |
| 39  | 39.2  | 29.1  | 43.7  |



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



#56

1,3-Dichloropropane

Concen: 90.09 ug/l

RT: 8.78 min Scan# 837

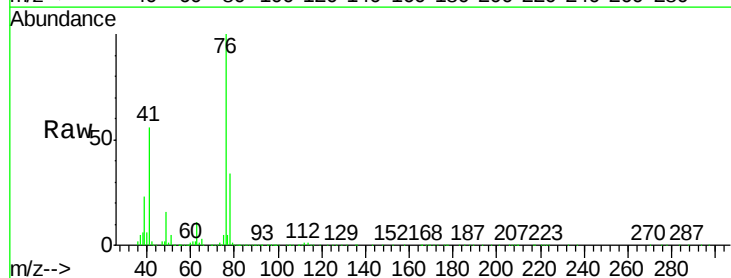
Delta R.T. -0.00 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

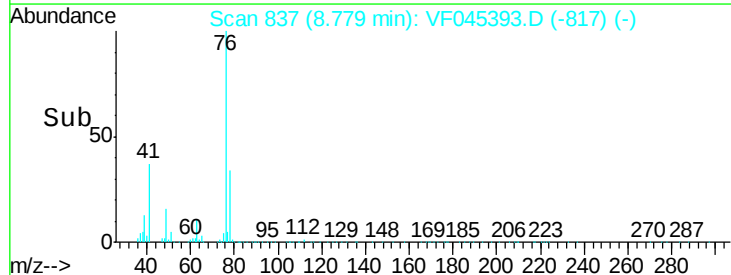
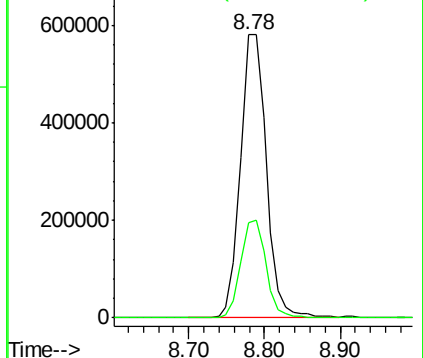
Tgt Ion: 76 Resp: 1380008

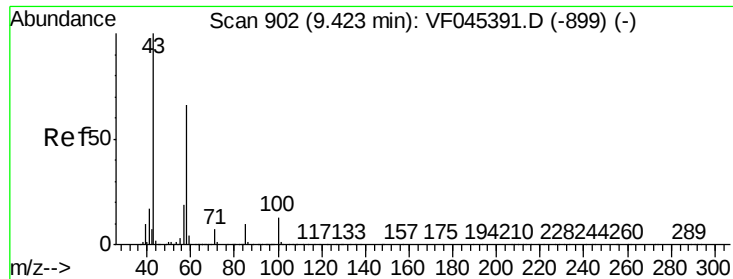
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 33.6  | 26.1  | 39.1  |



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

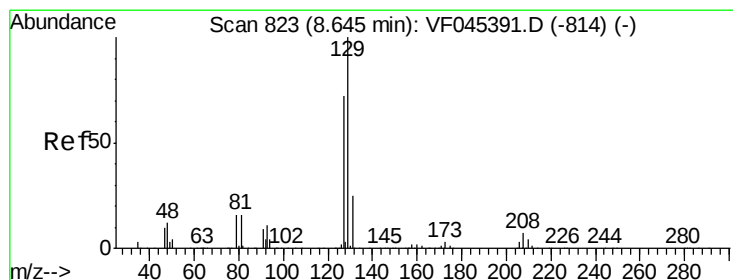
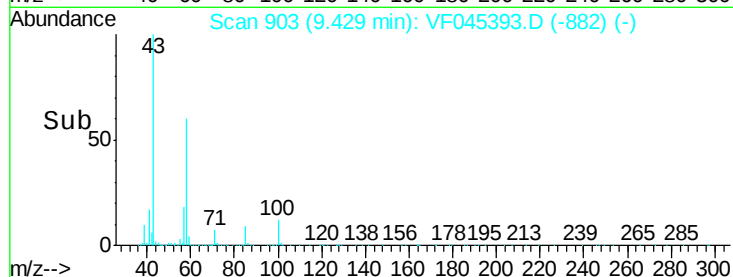
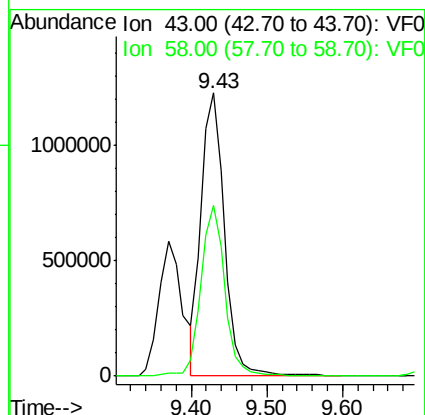
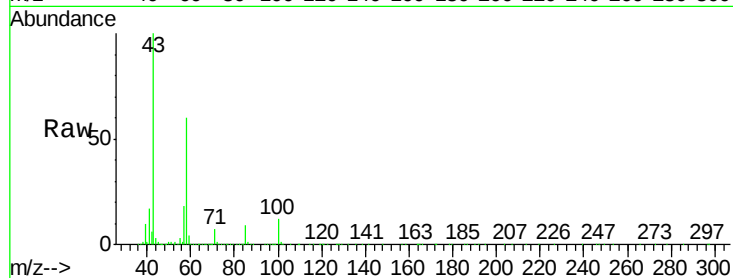




#58  
2-Hexanone  
Concen: 447.00 ug/l  
RT: 9.43 min Scan# 903  
Delta R.T. 0.01 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

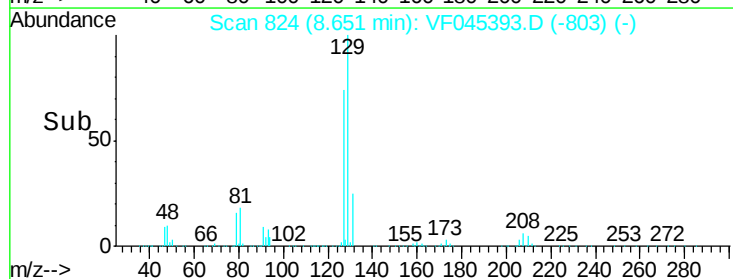
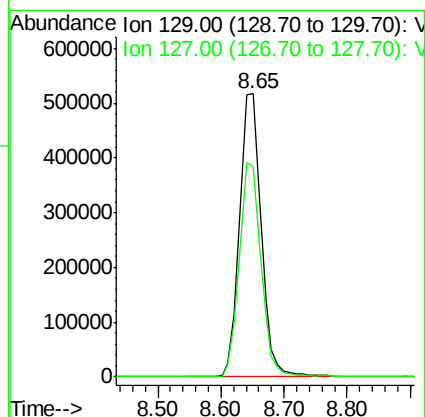
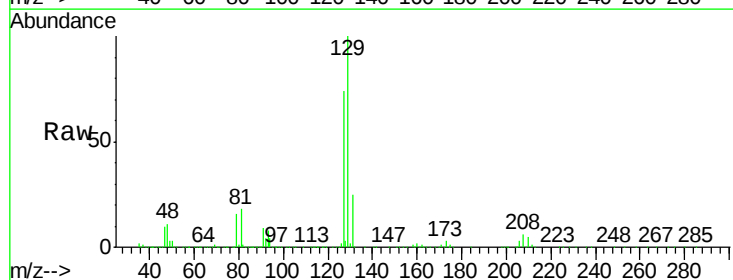
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC100

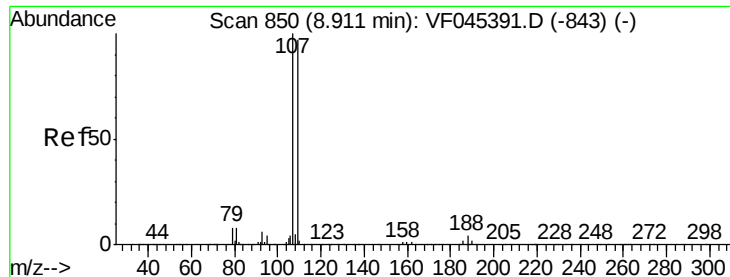
Tot Ion: 43 Resp: 2598116  
Ion Ratio Lower Upper  
43 100  
58 60.4 28.8 86.5



#59  
Dibromochloromethane  
Concen: 93.87 ug/l  
RT: 8.65 min Scan# 824  
Delta R.T. 0.01 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

Tgt Ion: 129 Resp: 1225689  
Ion Ratio Lower Upper  
129 100  
127 74.3 38.2 114.6





#60

1,2-Dibromoethane

Concen: 95.57 ug/l

RT: 8.92 min Scan# 851

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

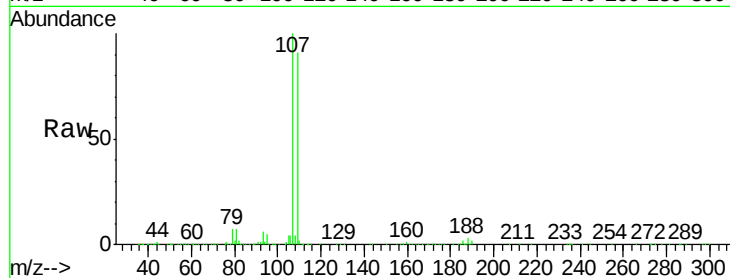
VSTDIC100

Tot Ion:107 Resp: 1001771

Ion Ratio Lower Upper

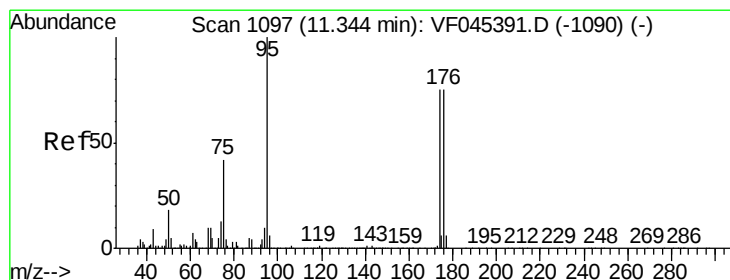
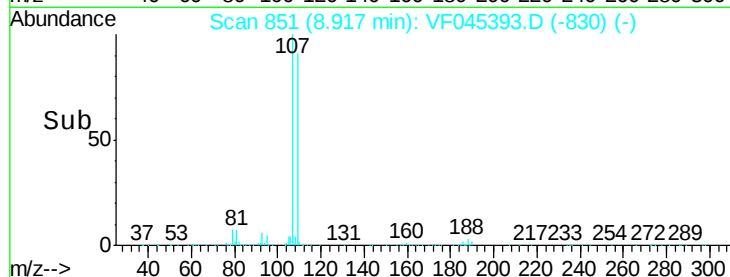
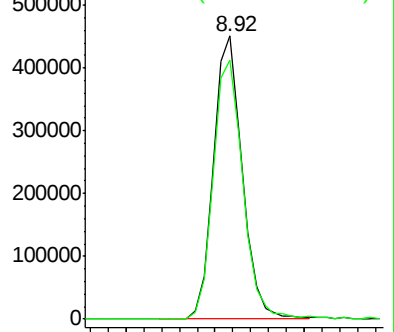
107 100

109 91.4 79.4 119.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#61

4-Bromofluorobenzene

Concen: 91.35 ug/l

RT: 11.35 min Scan# 1098

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

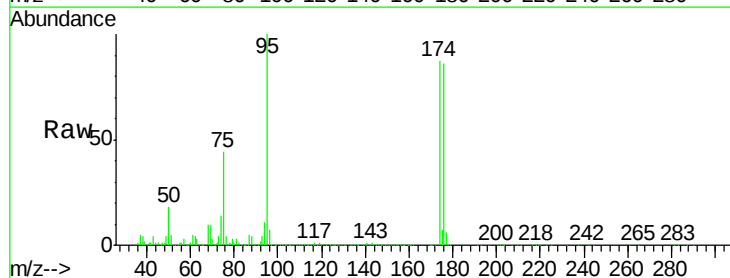
Tgt Ion: 95 Resp: 1610091

Ion Ratio Lower Upper

95 100

174 86.5 0.0 177.8

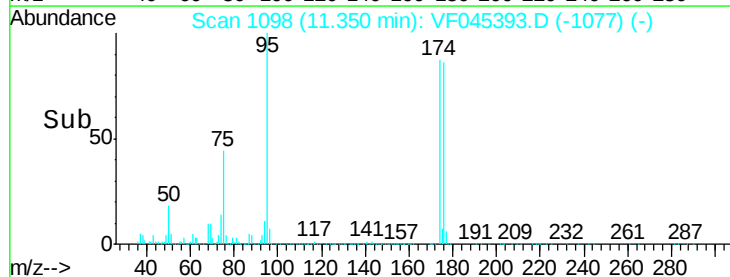
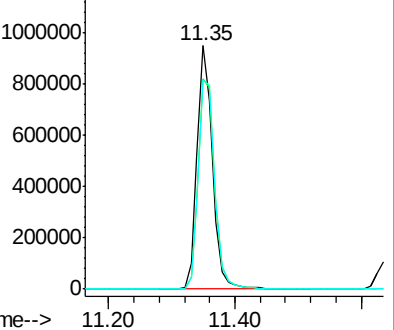
176 85.7 0.0 176.2

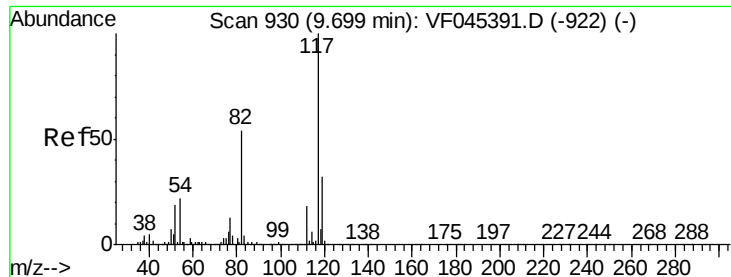


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#62

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.70 min Scan# 931

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

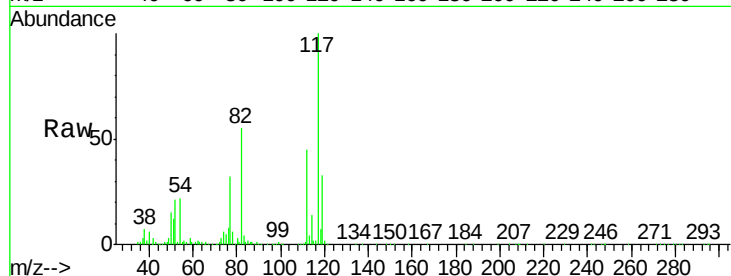
Tot Ion:117 Resp: 1458103

Ion Ratio Lower Upper

117 100

82 55.0 45.0 67.6

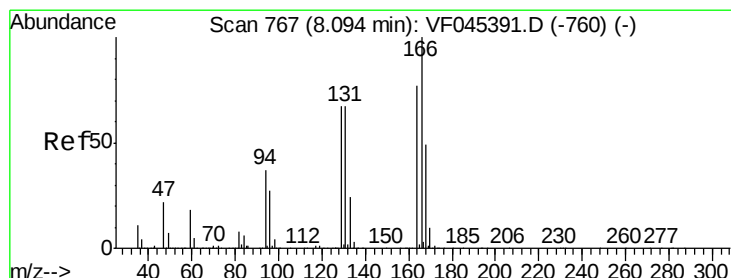
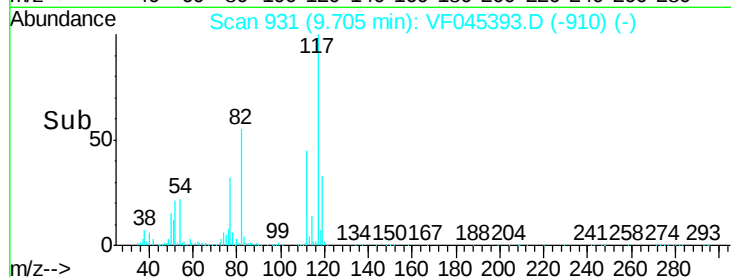
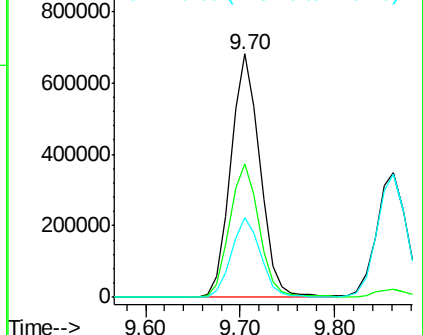
119 32.7 26.2 39.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#63

Tetrachloroethene

Concen: 96.01 ug/l

RT: 8.09 min Scan# 767

Delta R.T. -0.00 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Tgt Ion:164 Resp: 1099083

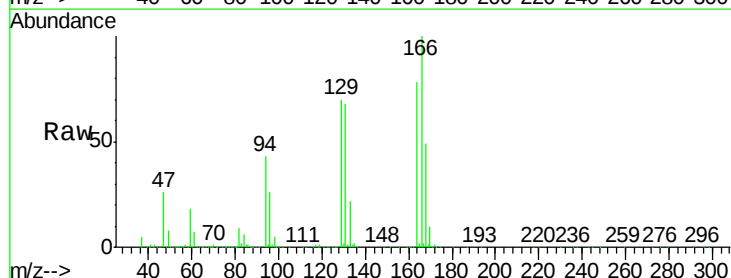
Ion Ratio Lower Upper

164 100

166 127.9 106.0 159.0

129 89.2 69.8 104.6

131 86.8 68.2 102.4

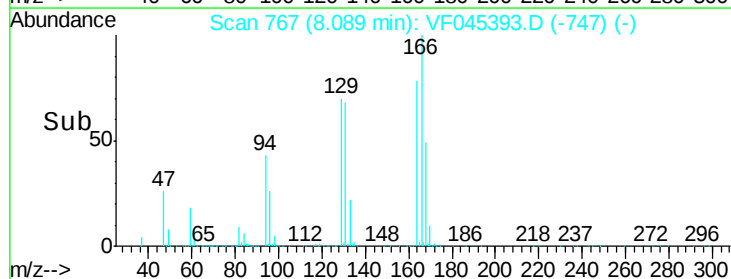
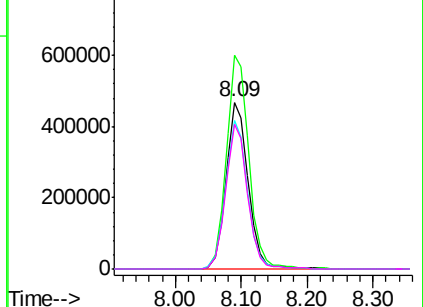


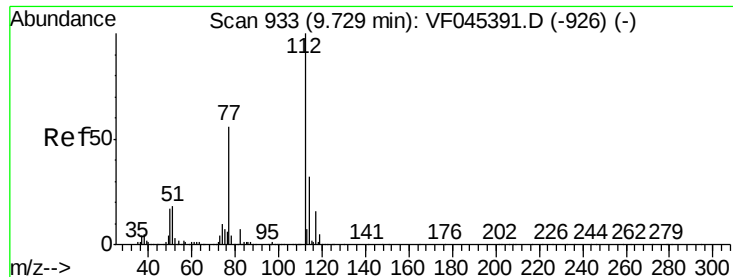
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#64

Chlorobenzene

Concen: 93.81 ug/l

RT: 9.72 min Scan# 933

Delta R.T. -0.00 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

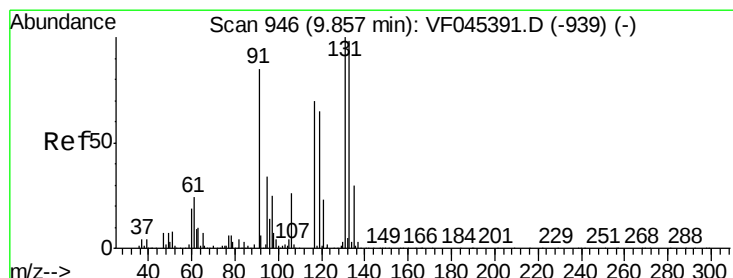
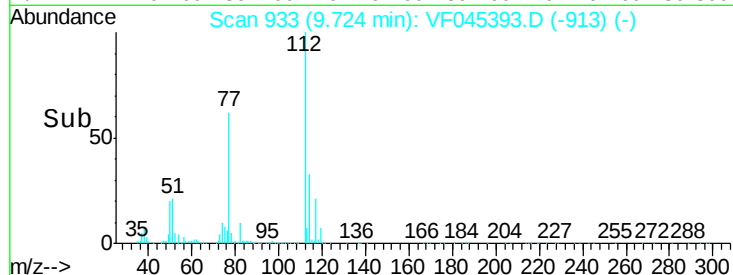
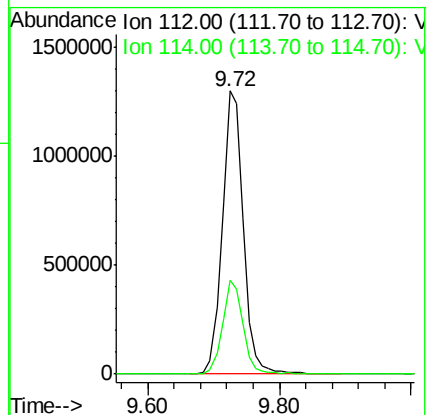
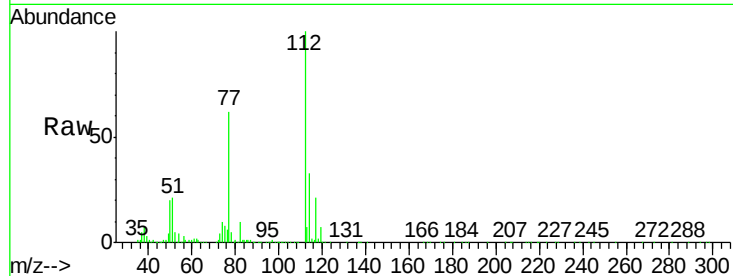
VSTDIC100

Tot Ion:112 Resp: 2884276

Ion Ratio Lower Upper

112 100

114 33.1 25.6 38.4



#65

1,1,1,2-Tetrachloroethane

Concen: 101.32 ug/l

RT: 9.86 min Scan# 947

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

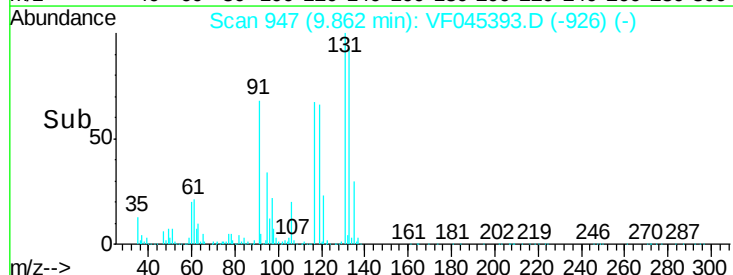
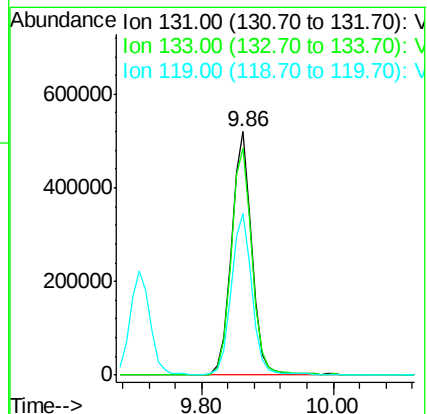
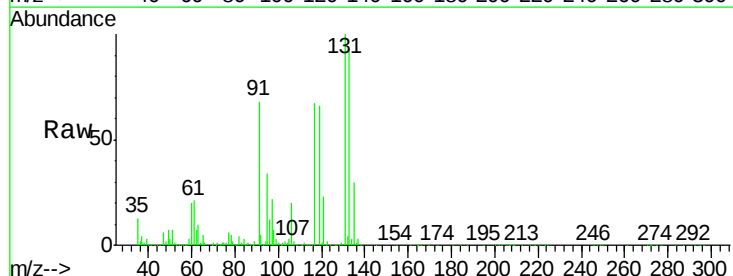
Tgt Ion:131 Resp: 1125483

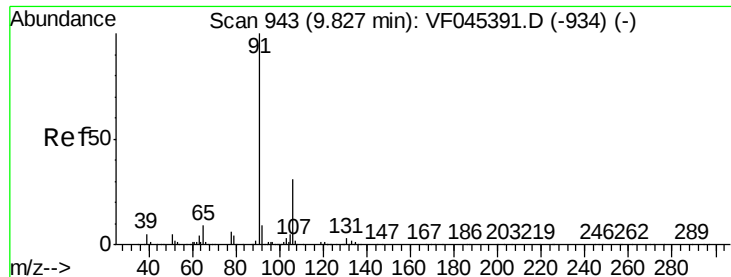
Ion Ratio Lower Upper

131 100

133 93.2 48.1 144.4

119 66.4 34.8 104.5





#66

Ethyl Benzene

Concen: 90.86 ug/l

RT: 9.83 min Scan# 944

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

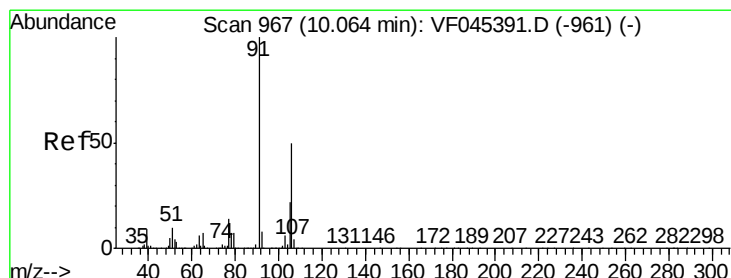
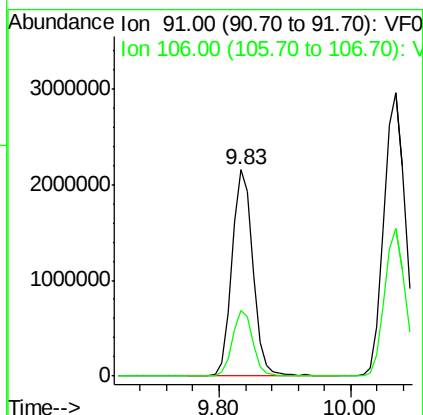
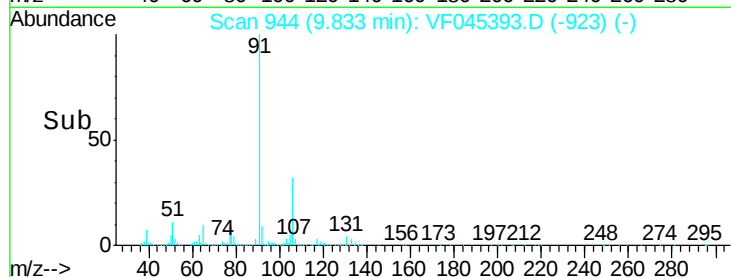
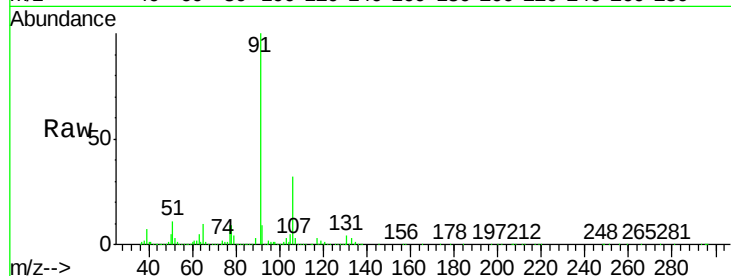
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC100

Tot Ion: 91 Resp: 4849989

Ion Ratio Lower Upper

91 100

106 32.0 23.6 35.4



#67

m/p-Xylenes

Concen: 175.63 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.01 min

Lab File: VF045393.D

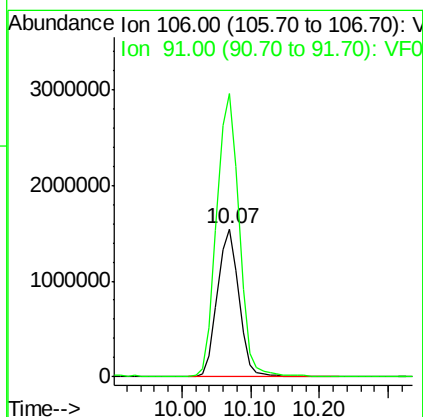
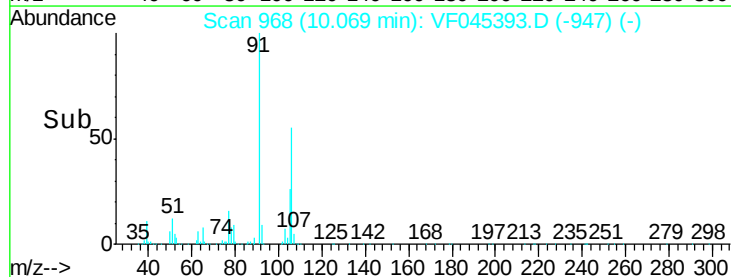
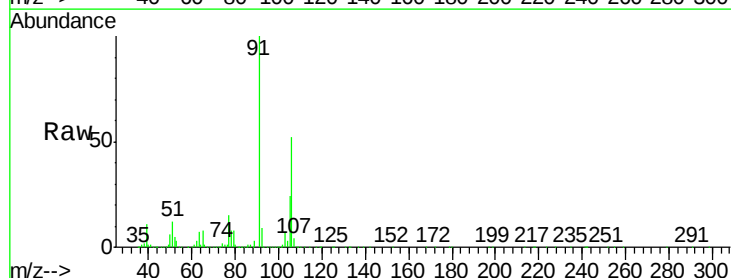
Acq: 16 Sep 2015 15:37

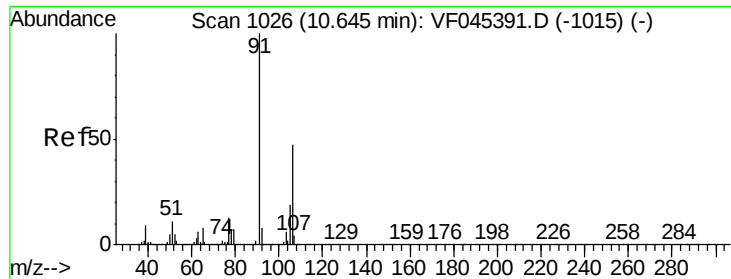
Tgt Ion: 106 Resp: 3361554

Ion Ratio Lower Upper

106 100

91 191.5 166.1 249.1

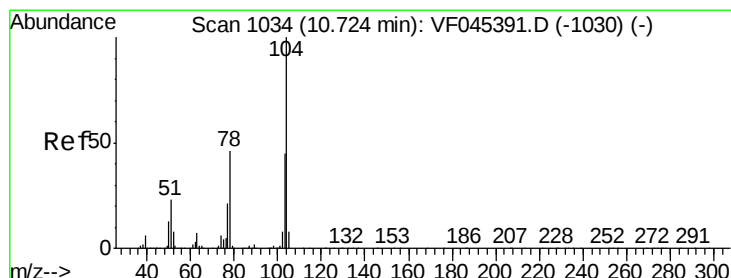
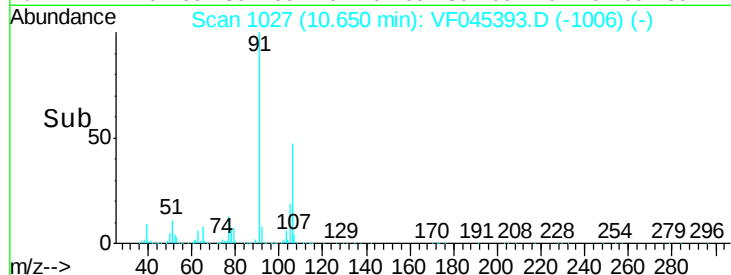
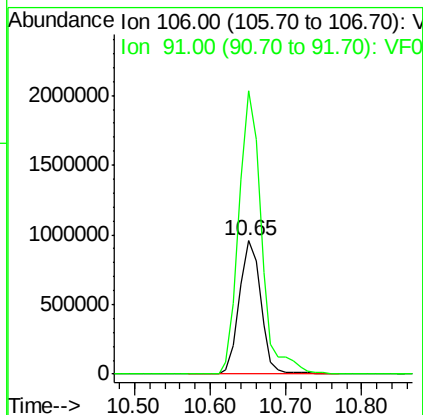
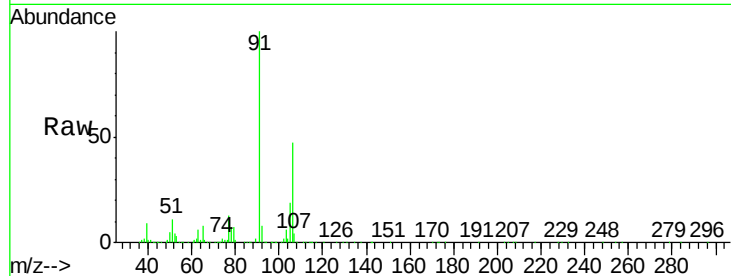




#68  
o-Xylene  
Concen: 96.23 ug/l  
RT: 10.65 min Scan# 1027  
Delta R.T. 0.01 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

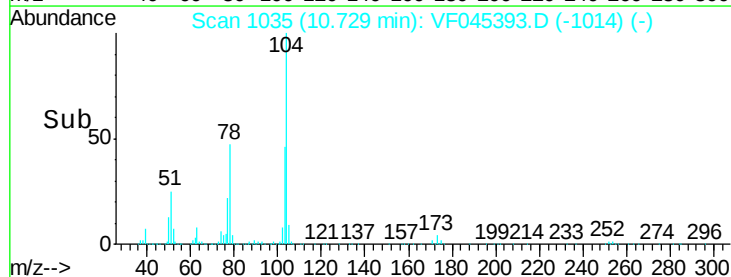
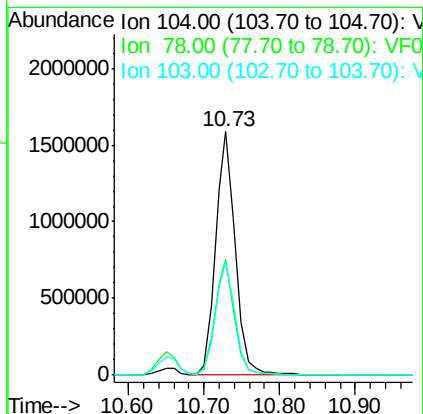
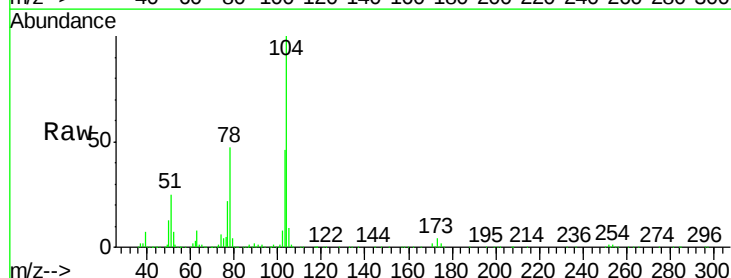
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC100

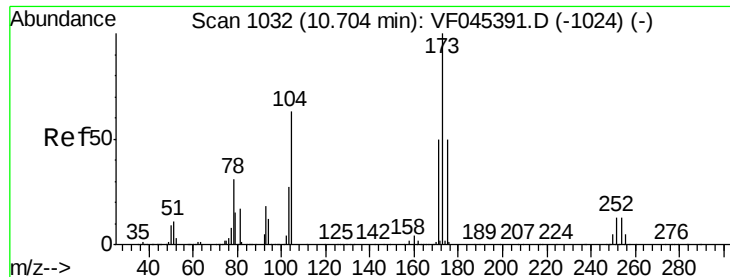
Tot Ion:106 Resp: 1890898  
Ion Ratio Lower Upper  
106 100  
91 212.4 108.1 324.2



#69  
Styrene  
Concen: 90.79 ug/l  
RT: 10.73 min Scan# 1035  
Delta R.T. 0.01 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

Tgt Ion:104 Resp: 2890792  
Ion Ratio Lower Upper  
104 100  
78 47.3 34.2 51.4  
103 46.2 36.7 55.1





#70

Bromoform

Concen: 107.07 ug/l

RT: 10.71 min Scan# 1033

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampled :

VSTDIC100

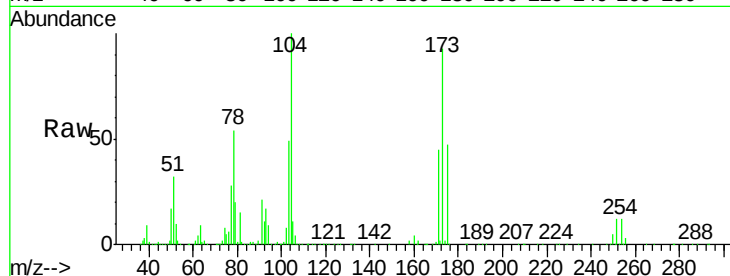
Tot Ion:173 Resp: 867651

Ion Ratio Lower Upper

173 100

175 50.7 25.7 77.0

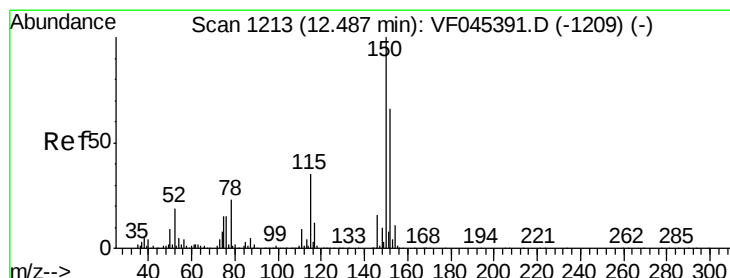
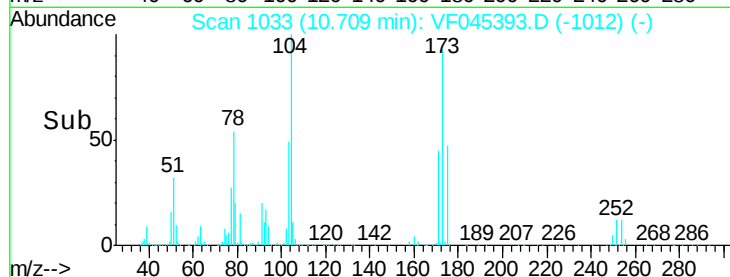
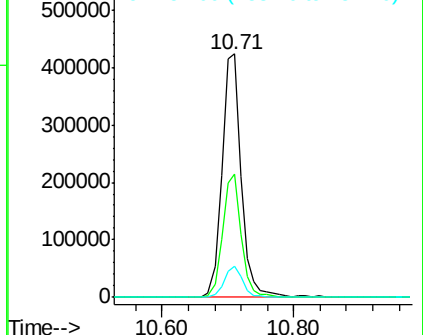
254 12.8 9.8 14.6



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



#71

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.49 min Scan# 1214

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

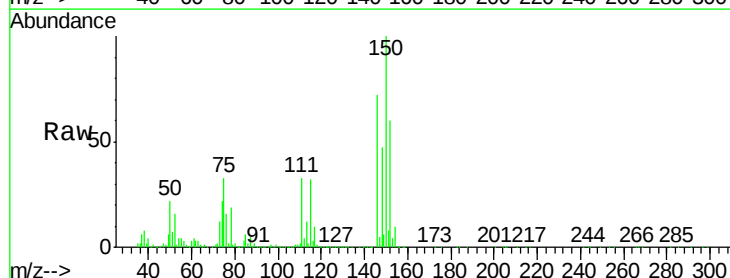
Tgt Ion:152 Resp: 844762

Ion Ratio Lower Upper

152 100

115 53.4 28.3 85.0

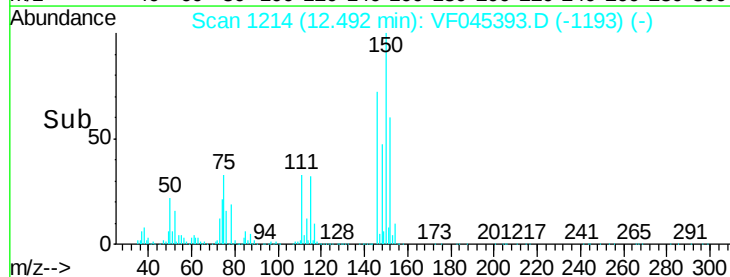
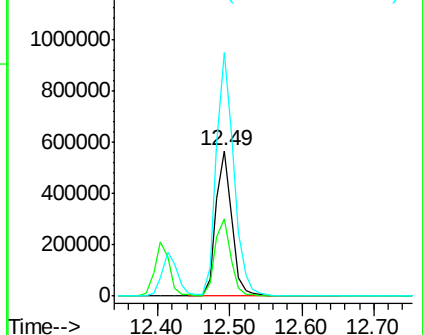
150 167.7 0.0 324.2

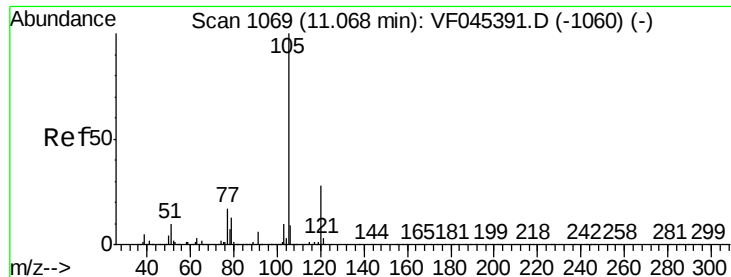


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#72

Isopropylbenzene

Concen: 89.13 ug/l

RT: 11.07 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

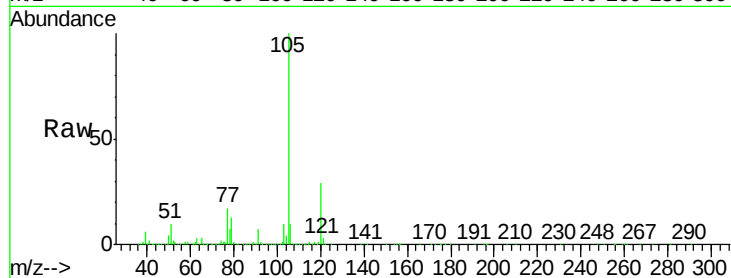
VSTDIC100

Tot Ion:105 Resp: 5108756

Ion Ratio Lower Upper

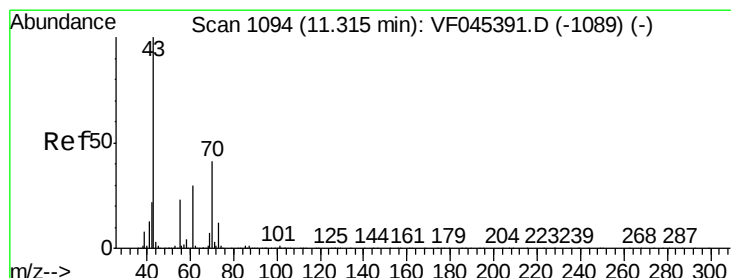
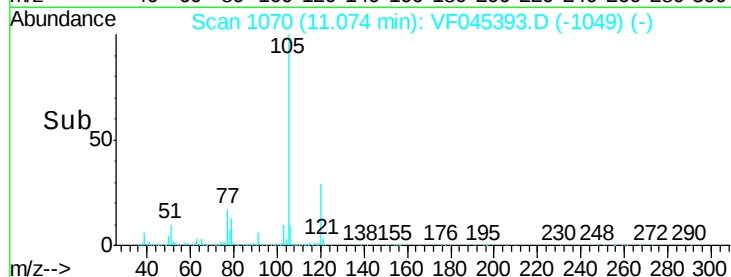
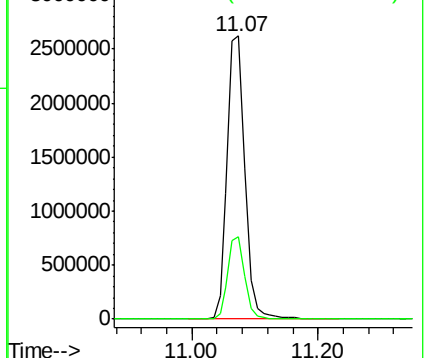
105 100

120 29.0 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#73

N-ethyl acetate

Concen: 94.68 ug/l

RT: 11.32 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Tgt Ion: 43 Resp: 1534266

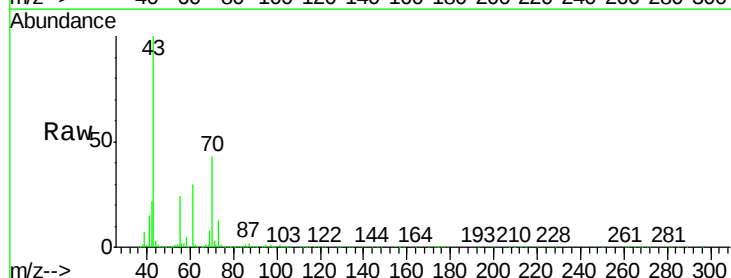
Ion Ratio Lower Upper

43 100

70 42.8 30.0 45.0

55 24.0 16.8 25.2

61 30.0 20.6 30.8

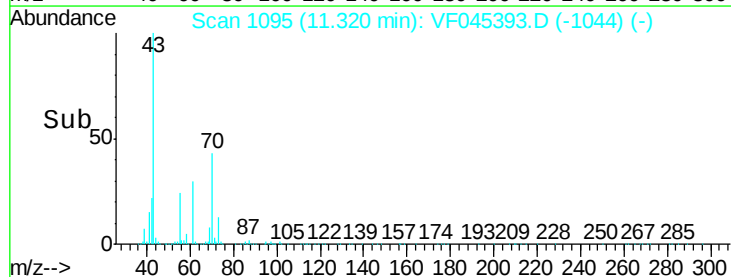
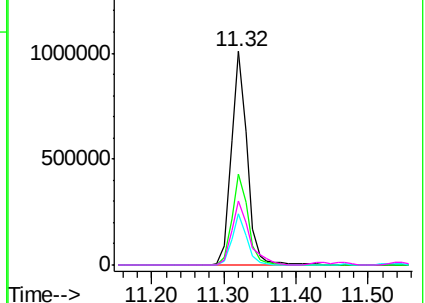


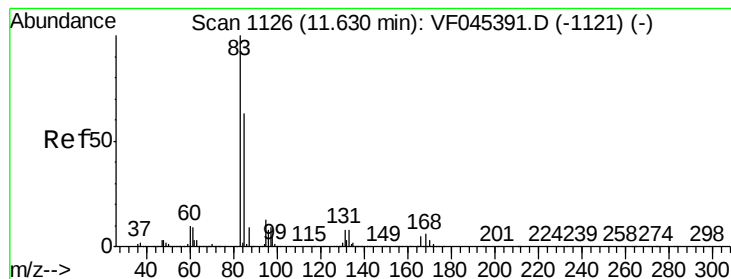
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#74

1,1,2,2-Tetrachloroethane

Concen: 89.95 ug/l

RT: 11.64 min Scan# 1127

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

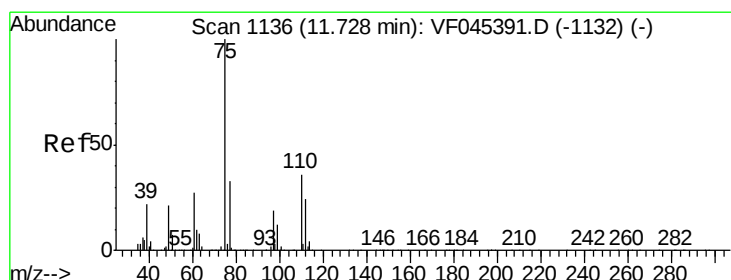
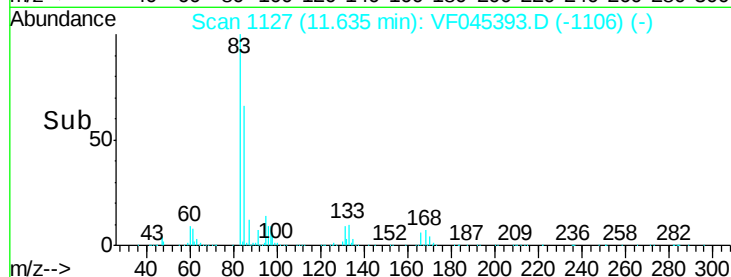
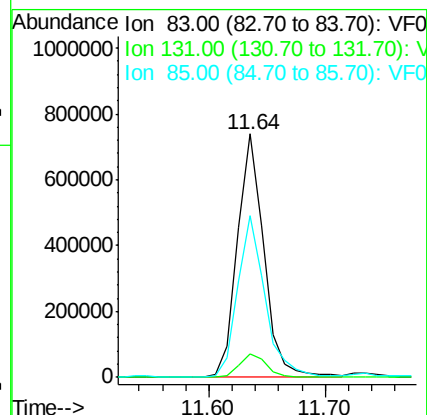
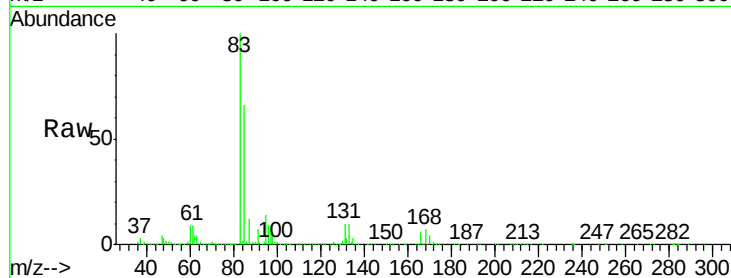
MSVOA\_F

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 1172923

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 9.6   | 4.2   | 12.6  |
| 85  | 66.3  | 32.5  | 97.5  |



#75

1,2,3-Trichloropropane

Concen: 92.26 ug/l

RT: 11.73 min Scan# 1137

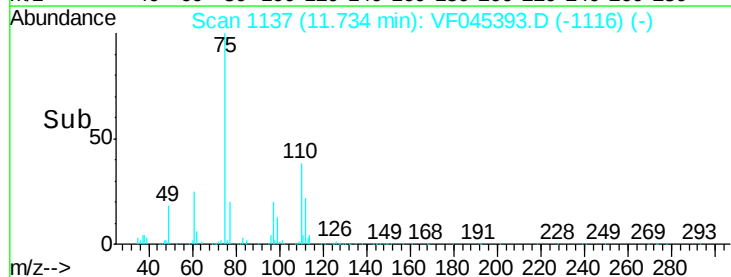
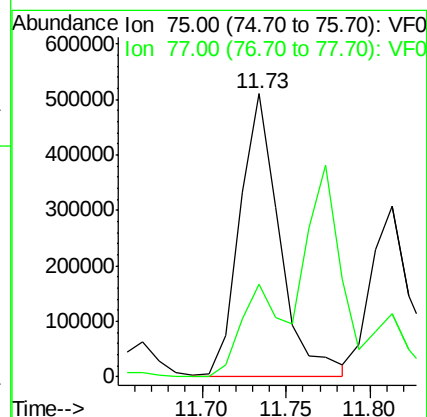
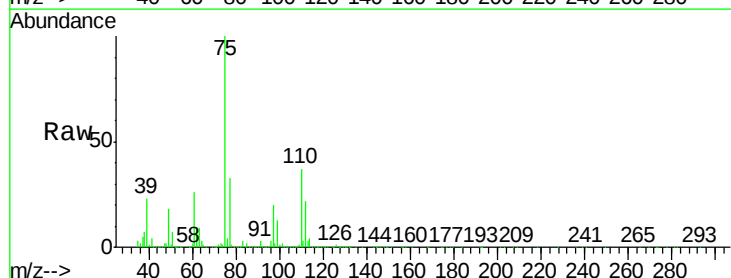
Delta R.T. 0.01 min

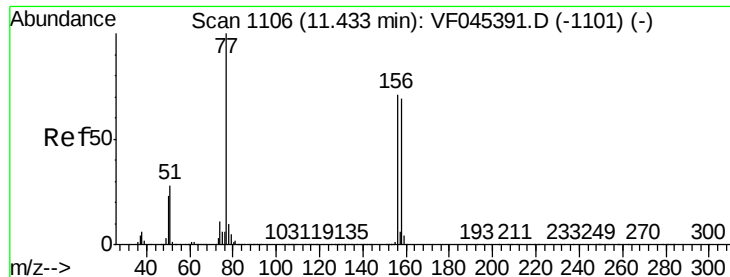
Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Tgt Ion: 75 Resp: 830461

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 32.9  | 15.0  | 45.1  |

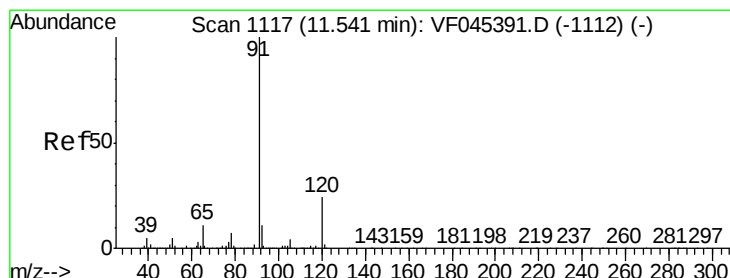
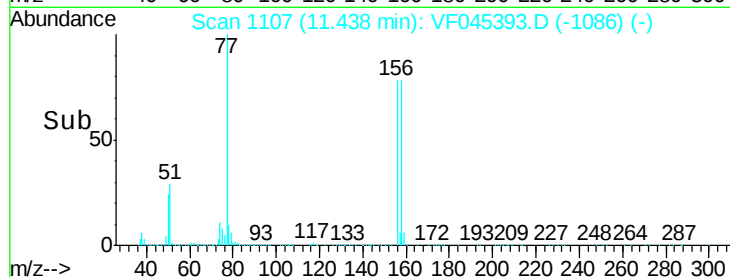
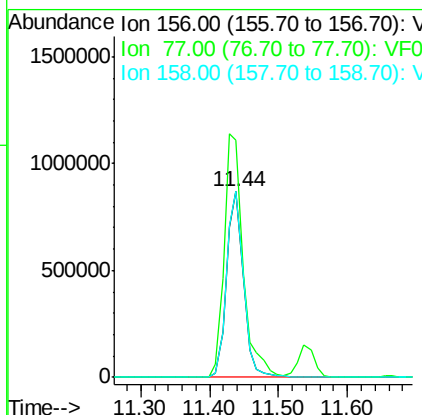
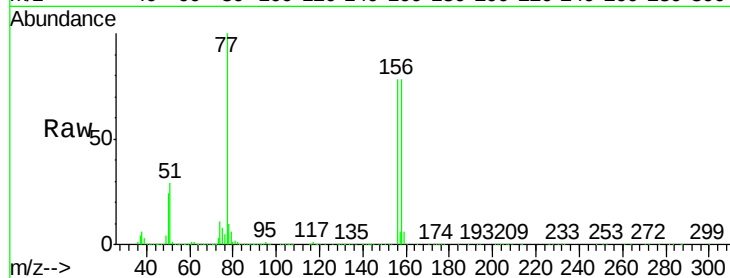




#76  
Bromobenzene  
Concen: 91.73 ug/l  
RT: 11.44 min Scan# 1107  
Delta R.T. 0.01 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

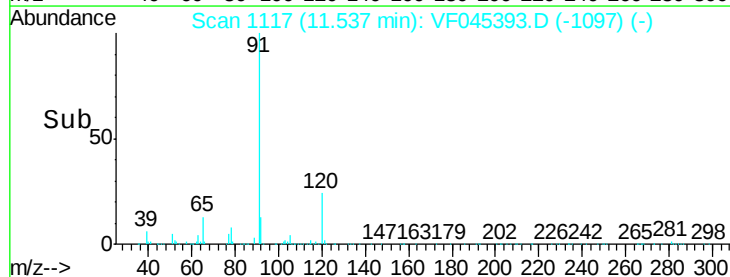
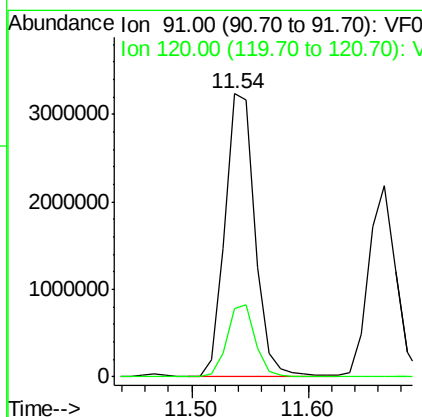
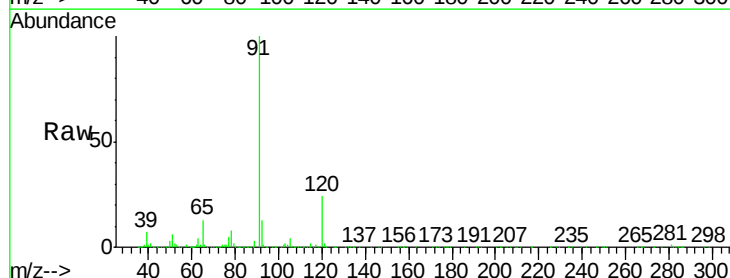
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICC100

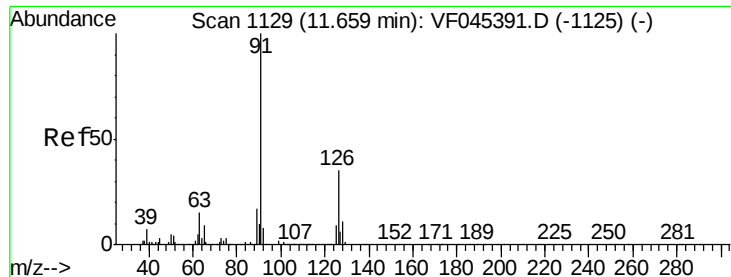
Tot Ion:156 Resp: 1481270  
Ion Ratio Lower Upper  
156 100  
77 127.8 74.8 224.3  
158 100.3 49.5 148.7



#77  
n-propylbenzene  
Concen: 80.24 ug/l  
RT: 11.54 min Scan# 1117  
Delta R.T. -0.00 min  
Lab File: VF045393.D  
Acq: 16 Sep 2015 15:37

Tgt Ion: 91 Resp: 5799754  
Ion Ratio Lower Upper  
91 100  
120 23.9 11.6 34.7





#78

2-Chlorotoluene

Concen: 87.52 ug/l

RT: 11.66 min Scan# 1130

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

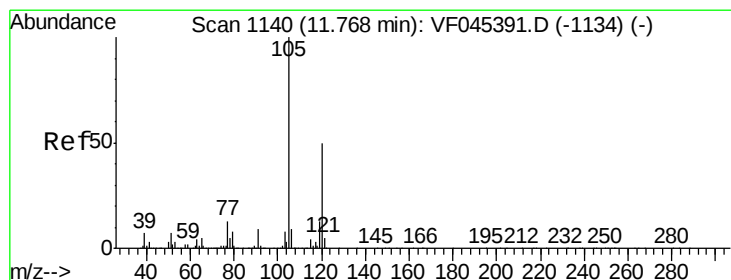
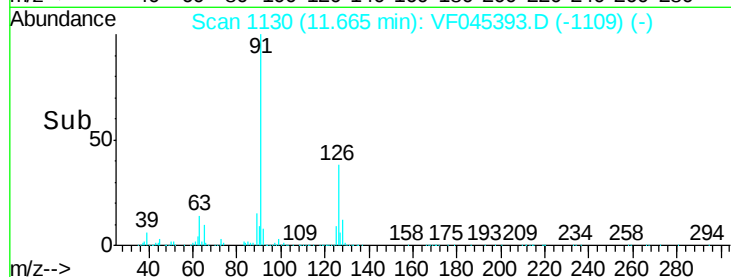
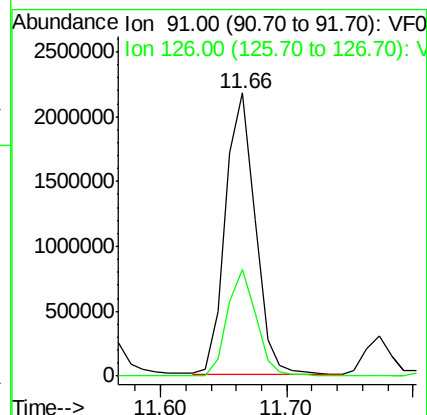
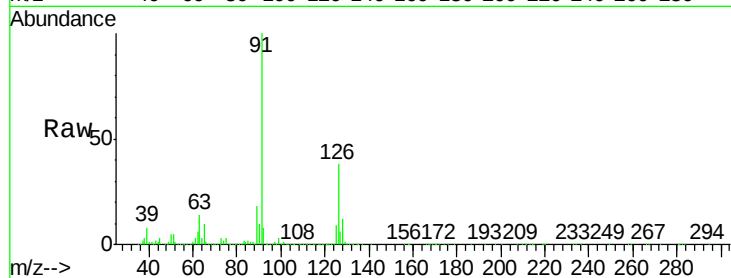
VSTDIC100

Tot Ion: 91 Resp: 3528454

Ion Ratio Lower Upper

91 100

126 37.6 16.9 50.7



#79

1,3,5-Trimethylbenzene

Concen: 81.56 ug/l

RT: 11.77 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF045393.D

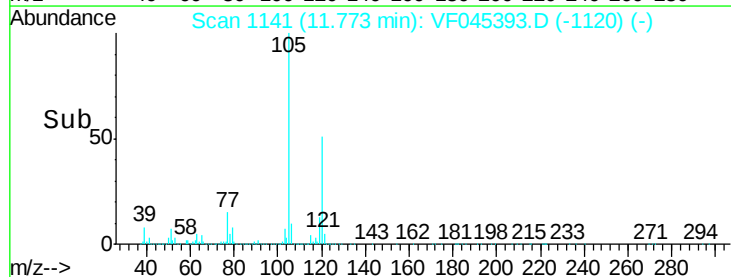
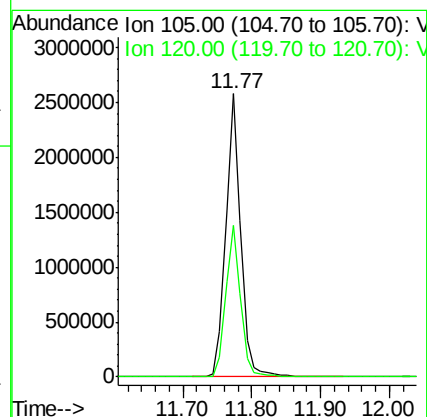
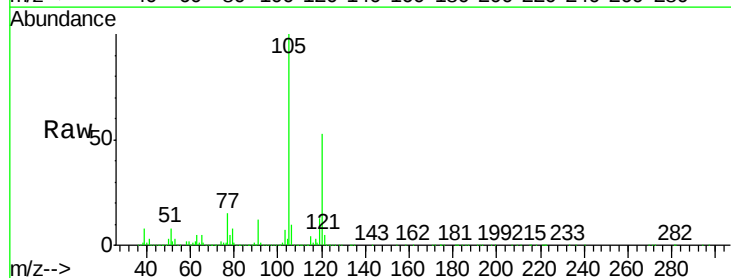
Acq: 16 Sep 2015 15:37

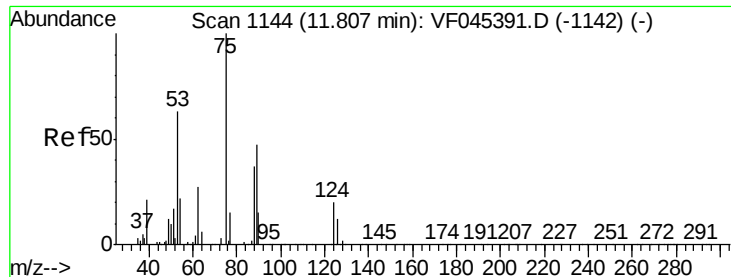
Tgt Ion: 105 Resp: 3861402

Ion Ratio Lower Upper

105 100

120 53.4 25.2 75.6





#80

trans-1,4-Dichloro-2-butene

Concen: 121.51 ug/l

RT: 11.81 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

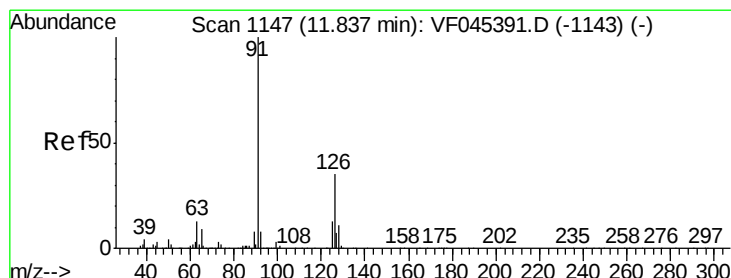
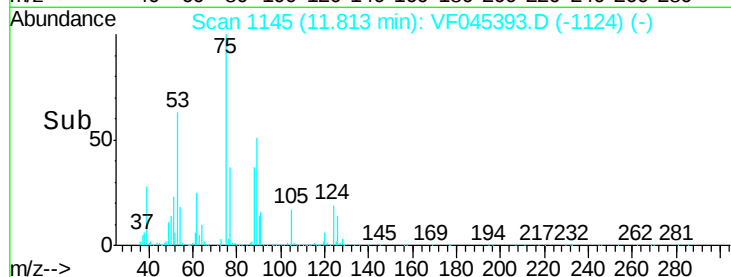
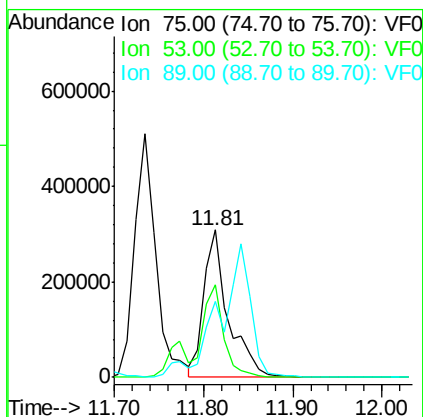
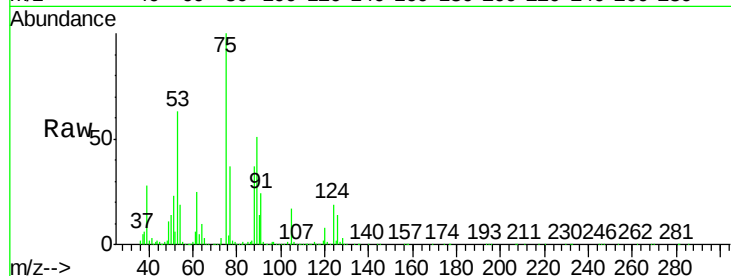
Tot Ion: 75 Resp: 582582

Ion Ratio Lower Upper

75 100

53 63.2 51.0 76.6

89 51.4 38.6 57.8



#81

4-Chlorotoluene

Concen: 89.56 ug/l

RT: 11.84 min Scan# 1148

Delta R.T. 0.01 min

Lab File: VF045393.D

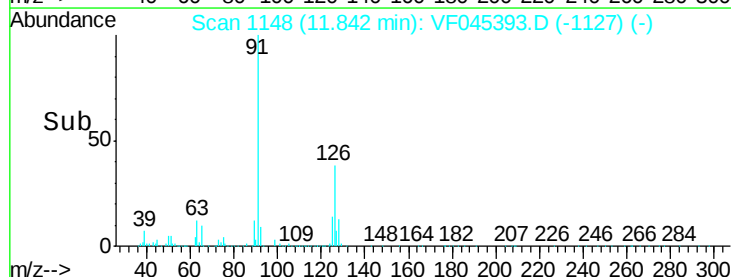
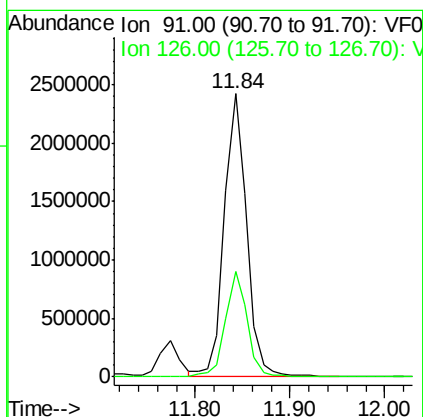
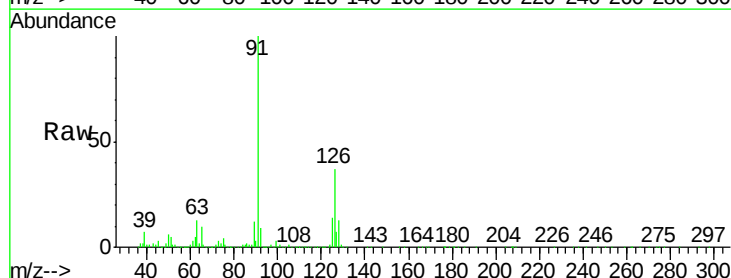
Acq: 16 Sep 2015 15:37

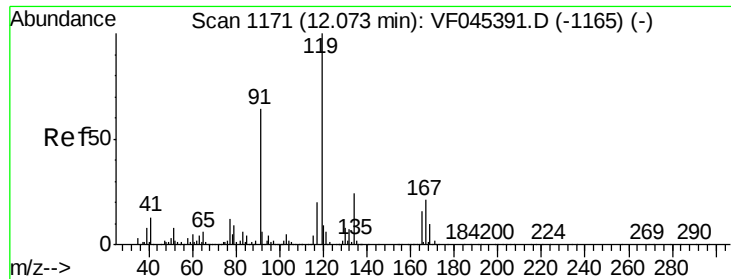
Tgt Ion: 91 Resp: 3956363

Ion Ratio Lower Upper

91 100

126 37.2 15.8 47.4





#82

tert-Butylbenzene

Concen: 86.65 ug/l

RT: 12.08 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

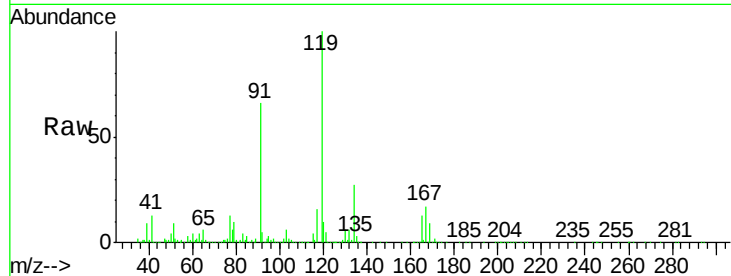
Tot Ion:119 Resp: 4010729

Ion Ratio Lower Upper

119 100

91 65.9 31.1 93.2

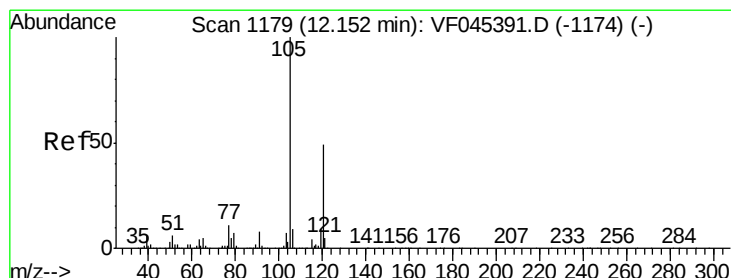
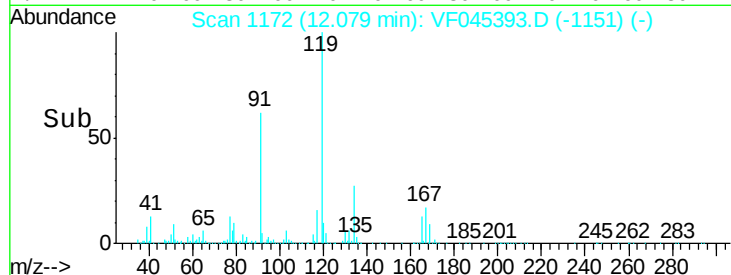
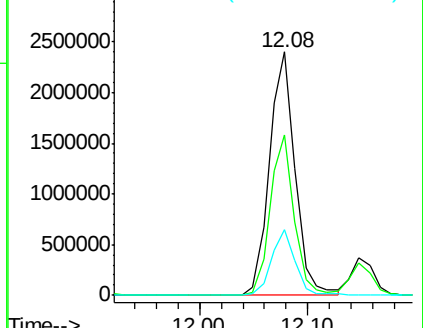
134 27.1 12.2 36.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#83

1,2,4-Trimethylbenzene

Concen: 87.71 ug/l

RT: 12.15 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VF045393.D

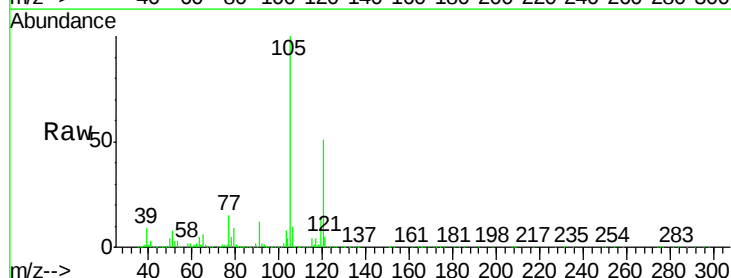
Acq: 16 Sep 2015 15:37

Tgt Ion:105 Resp: 4218473

Ion Ratio Lower Upper

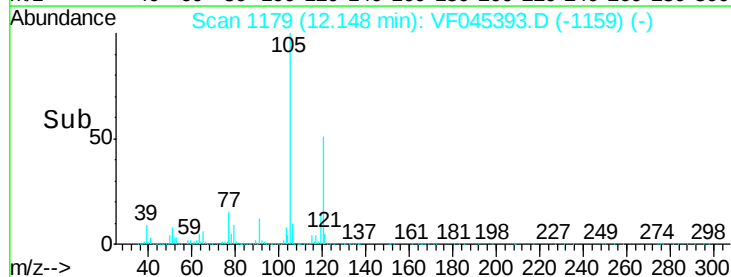
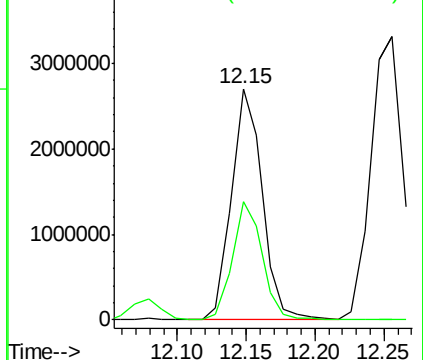
105 100

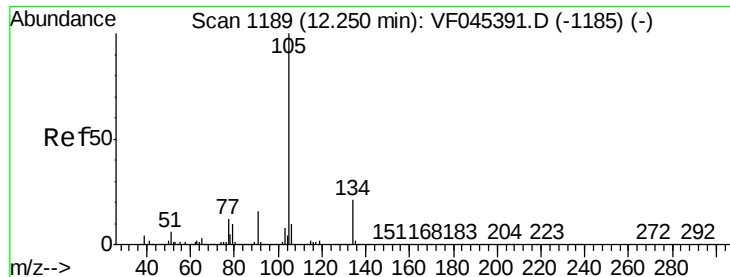
120 51.1 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

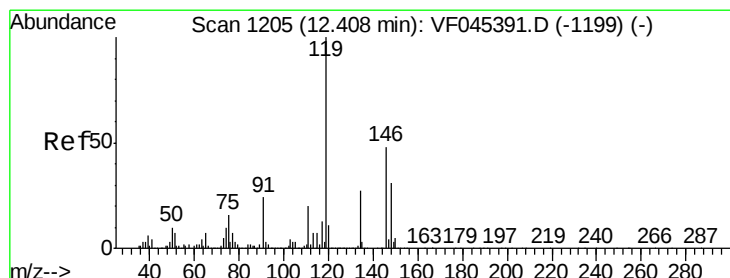
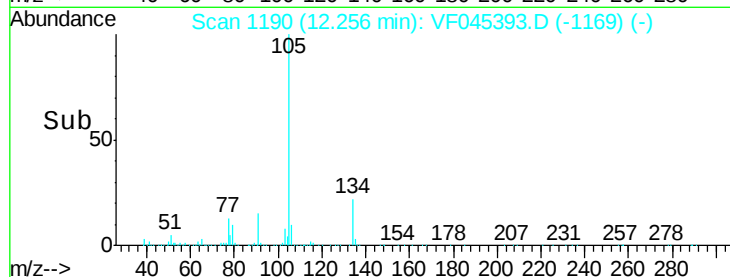
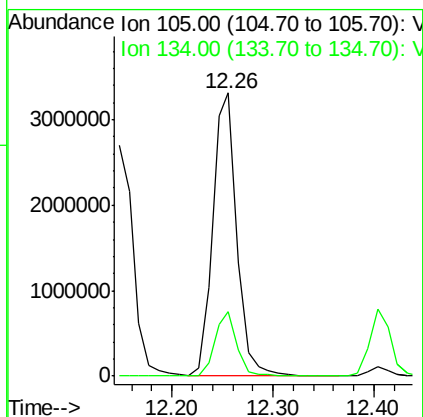
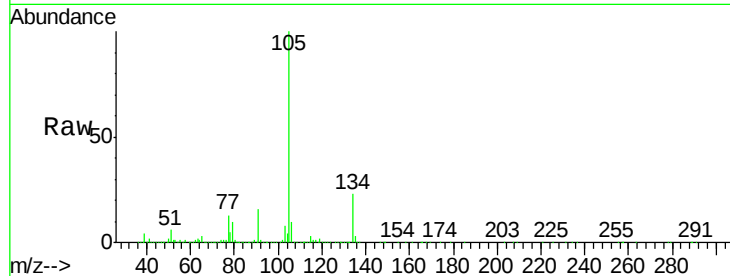




#84  
 sec-Butylbenzene  
 Concen: 85.59 ug/l  
 RT: 12.26 min Scan# 1190  
 Delta R.T. 0.01 min  
 Lab File: VF045393.D  
 Acq: 16 Sep 2015 15:37

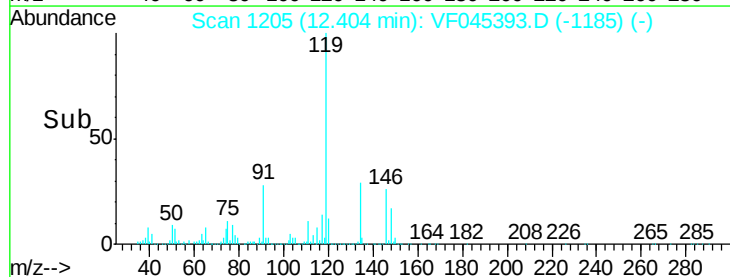
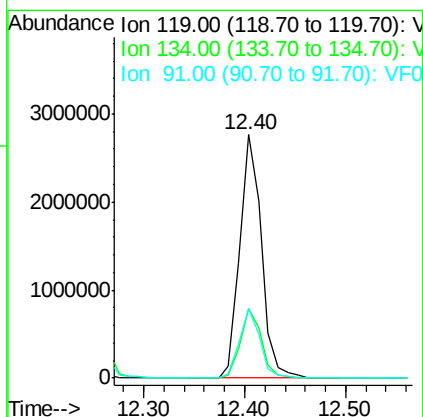
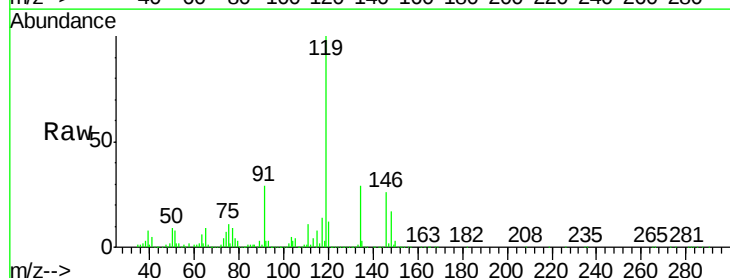
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC100

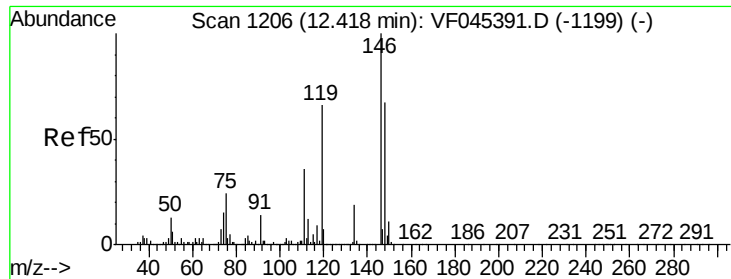
Tot Ion:105 Resp: 5501926  
 Ion Ratio Lower Upper  
 105 100  
 134 22.9 10.5 31.6



#85  
 p-Isopropyltoluene  
 Concen: 82.13 ug/l  
 RT: 12.40 min Scan# 1205  
 Delta R.T. -0.00 min  
 Lab File: VF045393.D  
 Acq: 16 Sep 2015 15:37

Tgt Ion:119 Resp: 4110255  
 Ion Ratio Lower Upper  
 119 100  
 134 28.6 13.0 38.9  
 91 28.5 12.2 36.6





#86

1,3-Dichlorobenzene

Concen: 85.64 ug/l

RT: 12.41 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

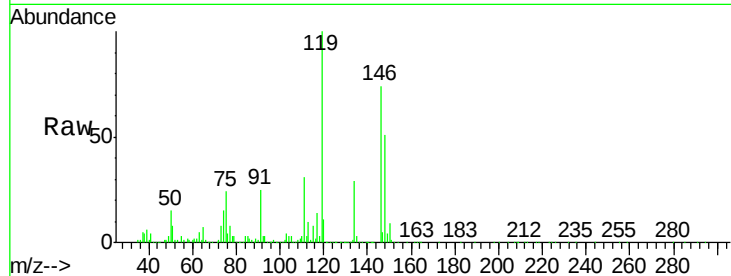
Tot Ion:146 Resp: 2358766

Ion Ratio Lower Upper

146 100

111 42.0 19.9 59.7

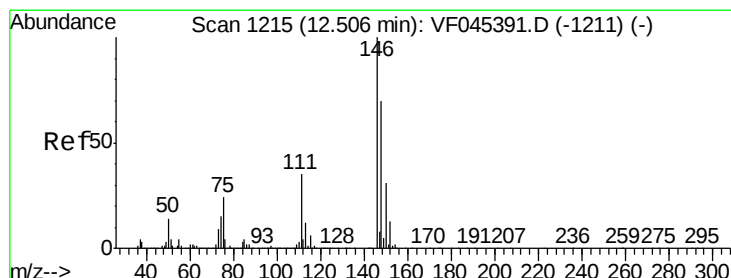
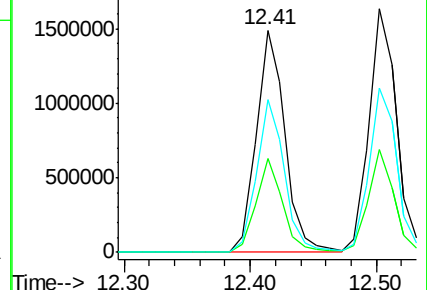
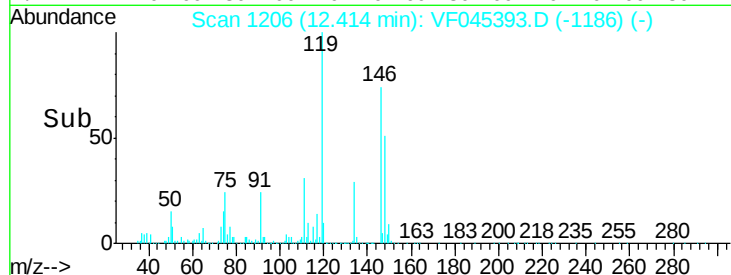
148 68.6 32.5 97.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#87

1,4-Dichlorobenzene

Concen: 90.88 ug/l

RT: 12.50 min Scan# 1215

Delta R.T. -0.00 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

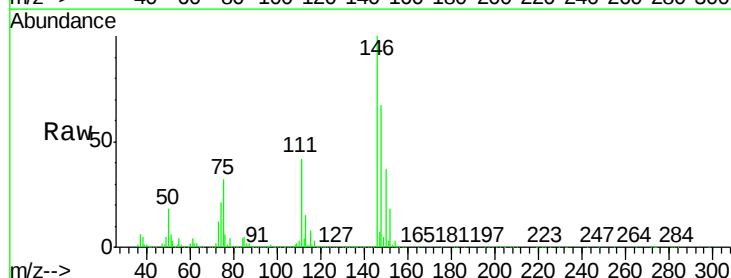
Tgt Ion:146 Resp: 2485771

Ion Ratio Lower Upper

146 100

111 42.2 17.3 52.0

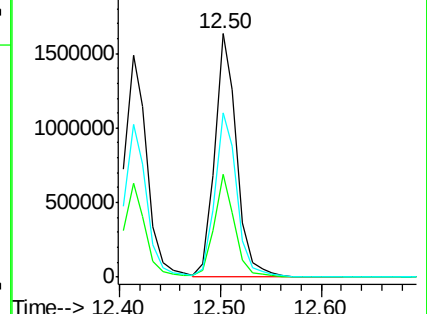
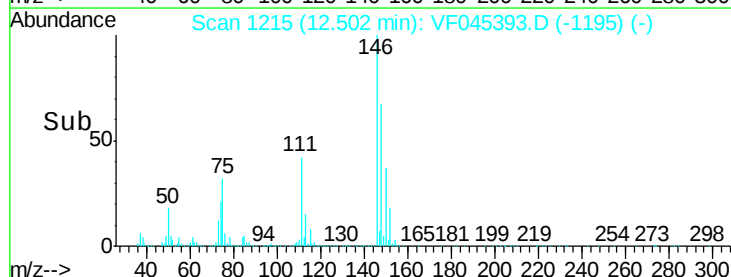
148 67.4 32.4 97.0

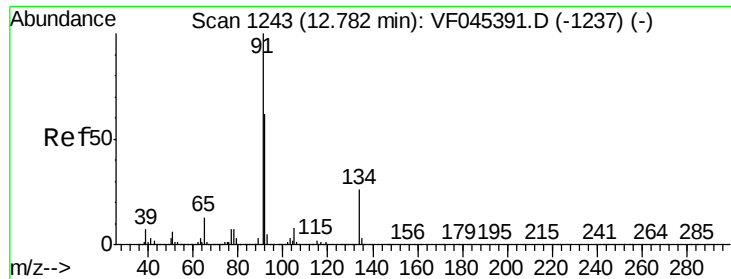


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#88

n-Butylbenzene

Concen: 85.64 ug/l

RT: 12.79 min Scan# 1244

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

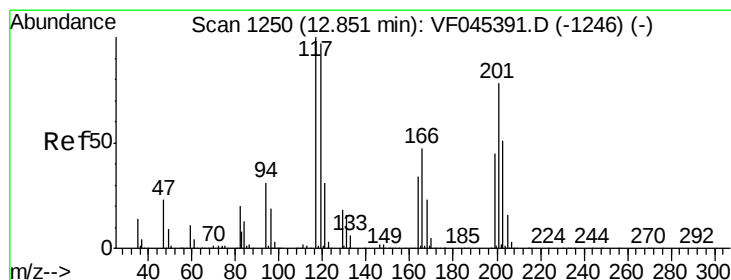
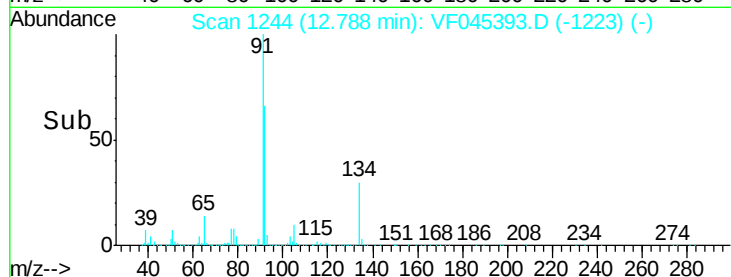
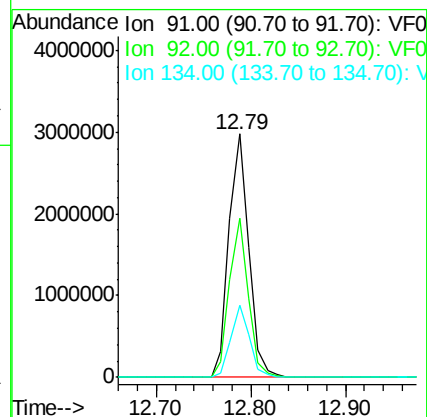
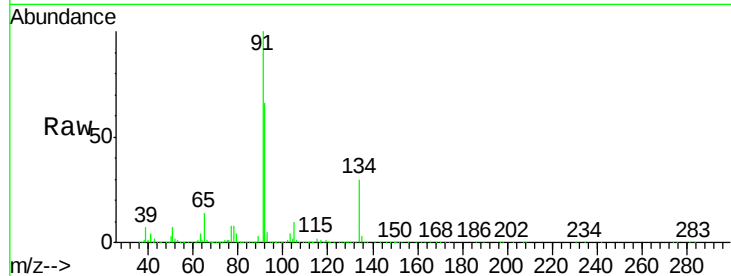
Tot Ion: 91 Resp: 4318037

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 65.5  | 30.1  | 90.5  |
| 134 | 29.7  | 13.8  | 41.4  |

91 100

92 65.5 30.1 90.5

134 29.7 13.8 41.4



#89

Hexachloroethane

Concen: 94.15 ug/l

RT: 12.86 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VF045393.D

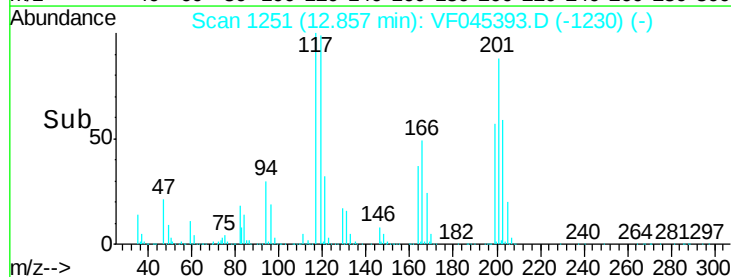
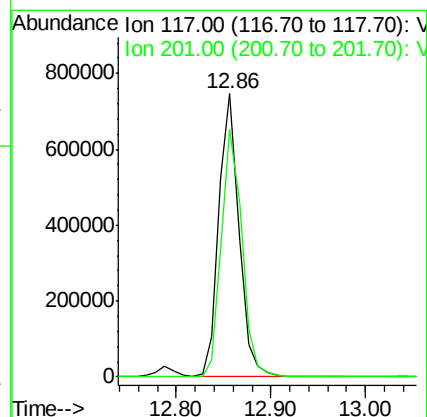
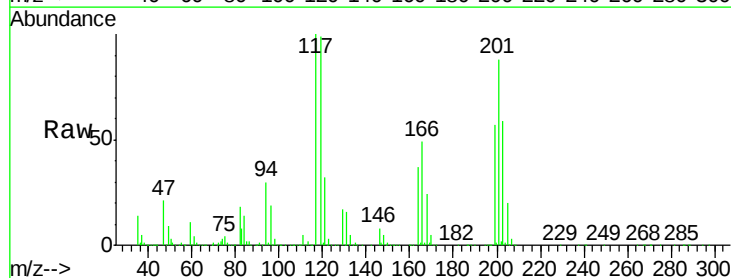
Acq: 16 Sep 2015 15:37

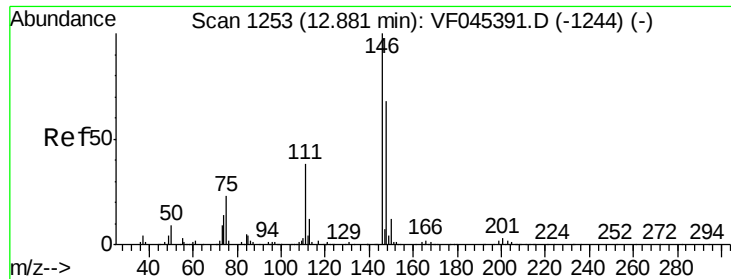
Tgt Ion: 117 Resp: 1109696

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 201 | 87.6  | 42.0  | 126.1 |

117 100

201 87.6 42.0 126.1

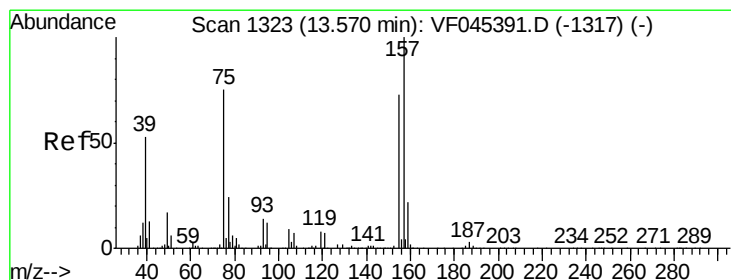
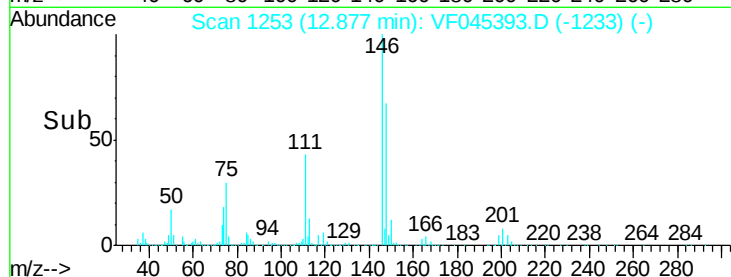
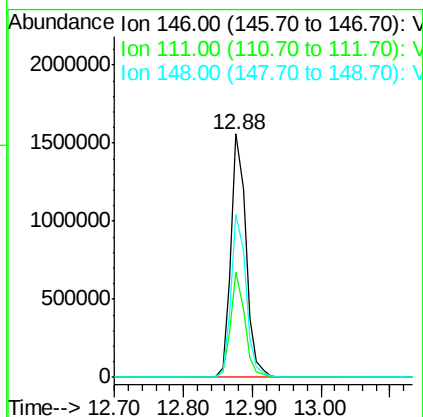
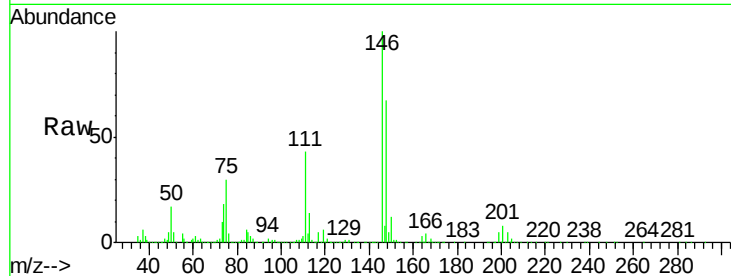




#90  
 1,2-Dichlorobenzene  
 Concen: 94.25 ug/l  
 RT: 12.88 min Scan# 1253  
 Delta R.T. -0.00 min  
 Lab File: VF045393.D  
 Acq: 16 Sep 2015 15:37

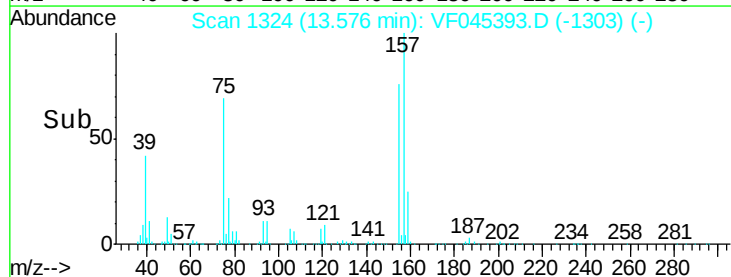
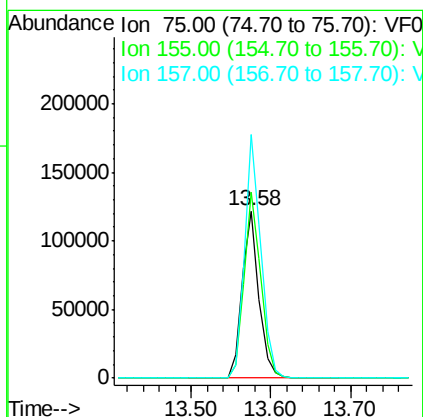
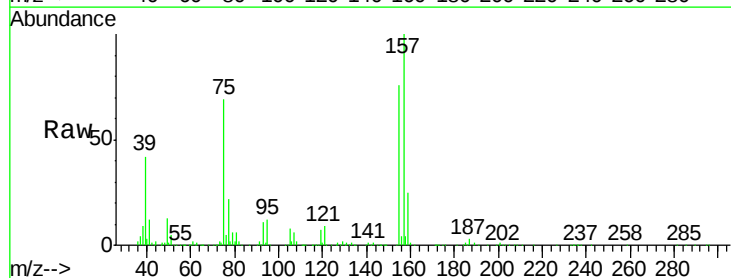
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC100

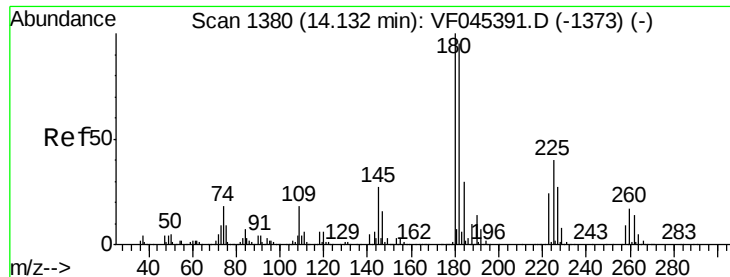
Tot Ion:146 Resp: 2365495  
 Ion Ratio Lower Upper  
 146 100  
 111 43.3 21.4 64.3  
 148 66.9 31.4 94.3



#91  
 1,2-Dibromo-3-Chloropropane  
 Concen: 104.95 ug/l  
 RT: 13.58 min Scan# 1324  
 Delta R.T. 0.01 min  
 Lab File: VF045393.D  
 Acq: 16 Sep 2015 15:37

Tgt Ion: 75 Resp: 177431  
 Ion Ratio Lower Upper  
 75 100  
 155 111.4 49.2 147.6  
 157 145.8 66.8 200.4





#92

1,2,4-Trichlorobenzene

Concen: 102.72 ug/l

RT: 14.13 min Scan# 1380

Delta R.T. -0.00 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

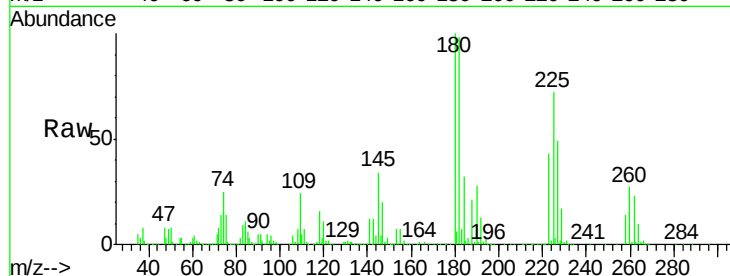
Tot Ion:180 Resp: 1479481

Ion Ratio Lower Upper

180 100

182 97.7 49.4 148.0

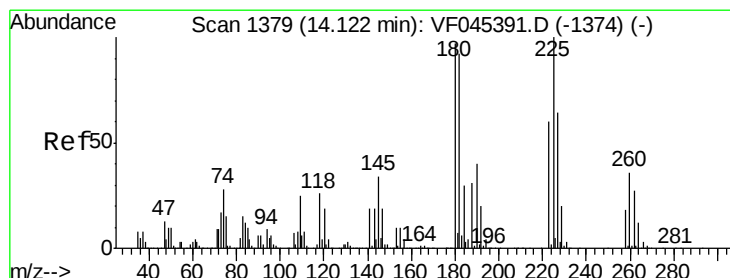
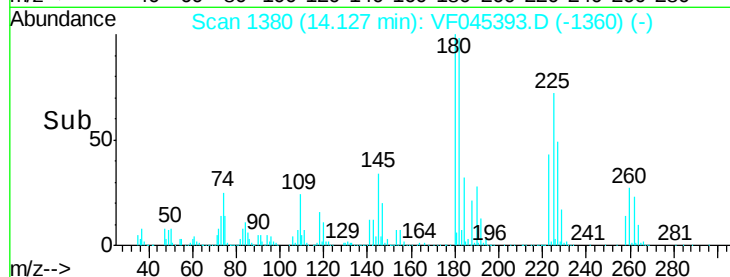
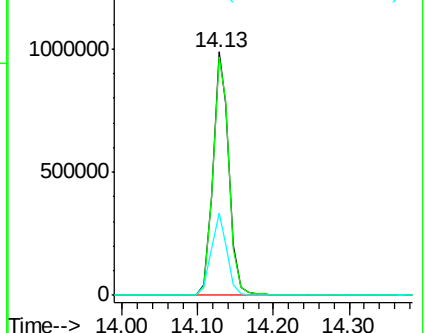
145 34.0 16.7 50.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#93

Hexachlorobutadiene

Concen: 98.51 ug/l

RT: 14.13 min Scan# 1380

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

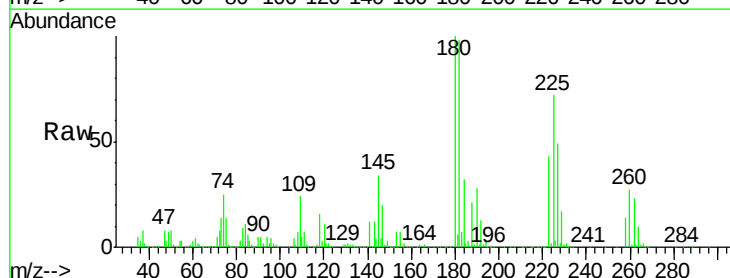
Tgt Ion:225 Resp: 1083031

Ion Ratio Lower Upper

225 100

223 60.1 31.9 95.5

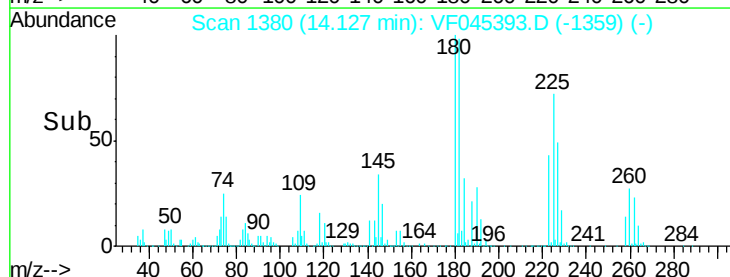
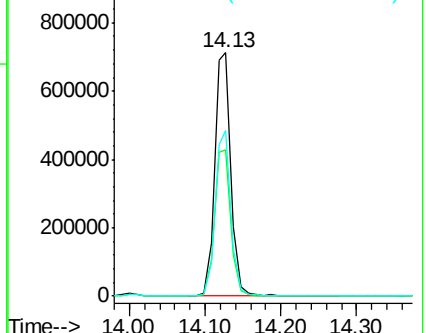
227 68.1 32.9 98.7

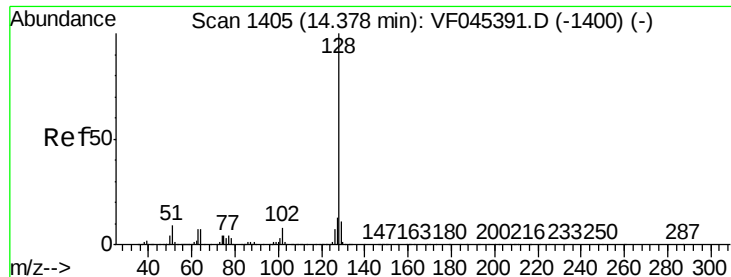


Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#94

Naphthalene

Concen: 110.47 ug/l

RT: 14.38 min Scan# 1406

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC100

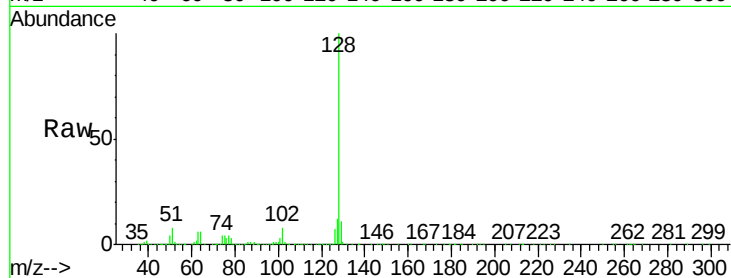
Tot Ion:128 Resp: 2710614

Ion Ratio Lower Upper

128 100

127 12.4 9.8 14.8

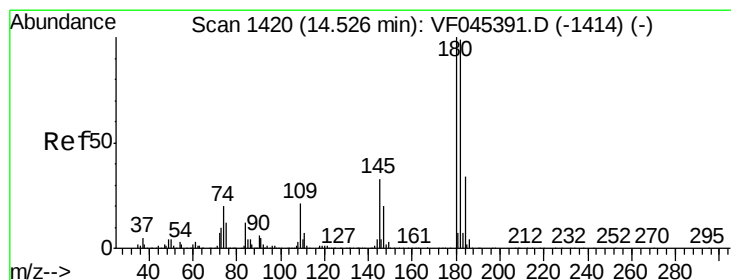
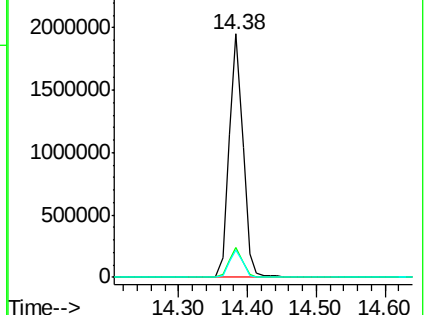
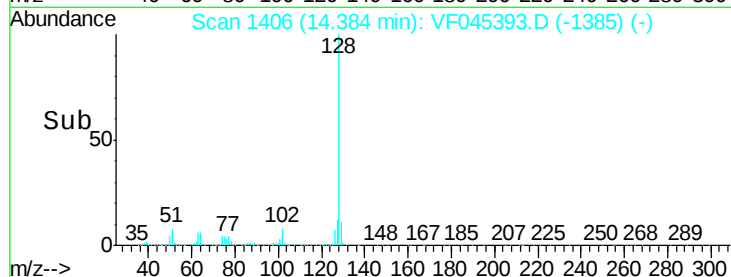
129 11.1 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#95

1,2,3-Trichlorobenzene

Concen: 108.26 ug/l

RT: 14.53 min Scan# 1421

Delta R.T. 0.01 min

Lab File: VF045393.D

Acq: 16 Sep 2015 15:37

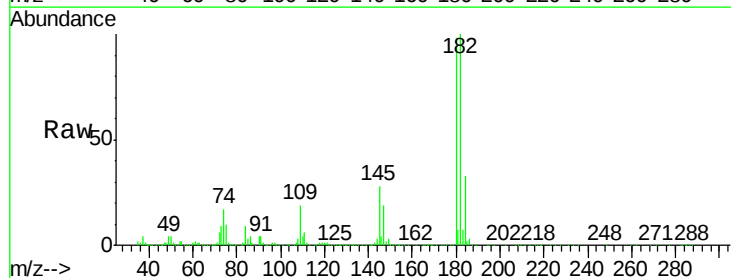
Tgt Ion:180 Resp: 1270714

Ion Ratio Lower Upper

180 100

182 101.9 47.6 142.8

145 28.9 14.5 43.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

