

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041615\  
 Data File : BF078565.D  
 Acq On : 16 Apr 2015 15:01  
 Operator : TP/IZ  
 Sample : G1889-01MS  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-01-014-AMS

Quant Time: Apr 17 01:19:51 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 17 00:52:22 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.68  | 152  | 28888    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.27  | 136  | 122360   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.42 | 164  | 61649    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 12.24 | 188  | 120495   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 15.50 | 240  | 133838   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12          | 17.21 | 264  | 140395   | 20.00 | ng    | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 4.91  | 112  | 161085   | 91.94  | ng    | 0.01     |
| 7) Phenol-d6                | 6.30  | 99   | 208605   | 95.00  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 118906   | 58.90  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.39 | 330  | 52210    | 102.11 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.62  | 172  | 239388   | 55.51  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.23 | 244  | 291488   | 49.21  | ng    | 0.00     |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 1.46 | 88   | 17847    | 22.53 | ng    | # 1    |
| 3) Pyridine                    | 2.01 | 79   | 54483    | 26.25 | ng    | 98     |
| 4) n-Nitrosodimethylamine      | 1.94 | 42   | 25632    | 32.09 | ng    | 83     |
| 6) Aniline                     | 6.27 | 93   | 53502    | 17.18 | ng    | 91     |
| 8) 2-Chlorophenol              | 6.42 | 128  | 61840    | 29.85 | ng    | 99     |
| 9) Benzaldehyde                | 6.12 | 77   | 12555    | 8.63  | ng    | 95     |
| 10) Phenol                     | 6.32 | 94   | 77339    | 29.40 | ng    | 99     |
| 11) bis(2-Chloroethyl)ether    | 6.40 | 93   | 57127    | 30.19 | ng    | 99     |
| 12) 1,3-Dichlorobenzene        | 6.60 | 146  | 63949    | 28.10 | ng    | 97     |
| 13) 1,4-Dichlorobenzene        | 6.71 | 146  | 64908    | 28.34 | ng    | 99     |
| 14) 1,2-Dichlorobenzene        | 6.89 | 146  | 62245    | 28.98 | ng    | 98     |
| 15) Benzyl Alcohol             | 6.90 | 79   | 51669    | 33.49 | ng    | 90     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.07 | 45   | 75048    | 29.74 | ng    | # 26   |
| 17) 2-Methylphenol             | 7.07 | 107  | 48507    | 30.16 | ng    | # 90   |
| 18) Hexachloroethane           | 7.30 | 117  | 21304    | 27.58 | ng    | # 76   |
| 19) n-Nitroso-di-n-propylamine | 7.23 | 70   | 44402    | 30.65 | ng    | # 90   |
| 20) 3+4-Methylphenols          | 7.27 | 107  | 65460    | 30.51 | ng    | 96     |
| 22) Acetophenone               | 7.21 | 105  | 86879    | 30.47 | ng    | # 88   |
| 24) Nitrobenzene               | 7.42 | 77   | 62002    | 29.38 | ng    | # 84   |
| 25) Isophorone                 | 7.72 | 82   | 115011   | 30.02 | ng    | 97     |
| 26) 2-Nitrophenol              | 7.82 | 139  | 30732    | 30.56 | ng    | 95     |
| 27) 2,4-Dimethylphenol         | 7.91 | 122  | 55913    | 29.90 | ng    | 94     |
| 28) bis(2-Chloroethoxy)methane | 8.02 | 93   | 73511    | 29.92 | ng    | 99     |
| 29) 2,4-Dichlorophenol         | 8.12 | 162  | 53471    | 31.43 | ng    | 94     |
| 30) 1,2,4-Trichlorobenzene     | 8.20 | 180  | 52706    | 27.02 | ng    | # 96   |
| 31) Naphthalene                | 8.30 | 128  | 182589   | 28.67 | ng    | 99     |
| 32) Benzoic acid               | 8.03 | 122  | 18155    | 23.95 | ng    | 93     |
| 33) 4-Chloroaniline            | 8.39 | 127  | 45744    | 17.31 | ng    | 97     |
| 34) Hexachlorobutadiene        | 8.46 | 225  | 29302    | 27.36 | ng    | 97     |
| 35) Caprolactam                | 8.81 | 113  | 16193    | 31.89 | ng    | 92     |
| 36) 4-Chloro-3-methylphenol    | 9.02 | 107  | 54686    | 31.86 | ng    | 97     |
| 37) 2-Methylnaphthalene        | 9.15 | 142  | 124007   | 28.68 | ng    | 99     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.36 | 216  | 54329    | 28.44 | ng    | 99     |
| 40) Hexachlorocyclopentadiene  | 9.35 | 237  | 23361    | 32.80 | ng    | 97     |

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 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

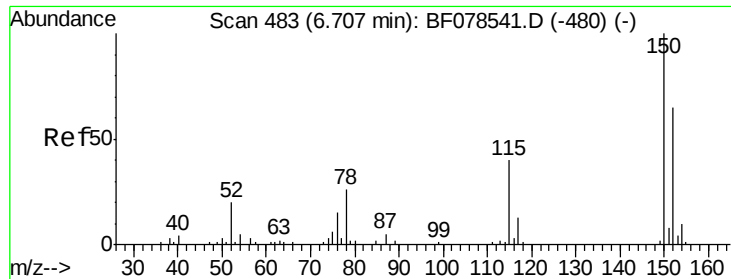
Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-01-014-AMS

Quant Time: Apr 17 01:19:51 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 17 00:52:22 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.52  | 196  | 39898    | 33.12  | ng    | 99       |
| 43) 2,4,5-Trichlorophenol      | 9.56  | 196  | 40256    | 31.99  | ng    | 94       |
| 45) 1,1'-Biphenyl              | 9.74  | 154  | 145273   | 28.81  | ng    | 98       |
| 46) 2-Chloronaphthalene        | 9.75  | 162  | 113800   | 28.68  | ng    | 98       |
| 47) 2-Nitroaniline             | 9.90  | 65   | 32399    | 33.00  | ng    | # 63     |
| 48) Acenaphthylene             | 10.25 | 152  | 186413   | 29.10  | ng    | 100      |
| 49) Dimethylphthalate          | 10.14 | 163  | 161462   | 34.86  | ng    | 98       |
| 50) 2,6-Dinitrotoluene         | 10.20 | 165  | 29355    | 30.81  | ng    | # 57     |
| 51) Acenaphthene               | 10.47 | 154  | 101146   | 28.04  | ng    | 98       |
| 52) 3-Nitroaniline             | 10.40 | 138  | 26150    | 24.13  | ng    | 92       |
| 53) 2,4-Dinitrophenol          | 10.55 | 184  | 10953    | 40.77  | ng    | 94       |
| 54) Dibenzofuran               | 10.67 | 168  | 161469   | 29.31  | ng    | 96       |
| 55) 4-Nitrophenol              | 10.67 | 139  | 107631   | 133.01 | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 10.70 | 165  | 38763    | 31.41  | ng    | # 72     |
| 57) Fluorene                   | 11.10 | 166  | 132697   | 29.71  | ng    | 100      |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.85 | 232  | 31048    | 33.28  | ng    | 99       |
| 59) Diethylphthalate           | 11.01 | 149  | 132514   | 29.67  | ng    | 98       |
| 60) 4-Chlorophenyl-phenylether | 11.12 | 204  | 61575    | 29.97  | ng    | # 90     |
| 61) 4-Nitroaniline             | 11.15 | 138  | 25887    | 23.63  | ng    | 93       |
| 62) Azobenzene                 | 11.31 | 77   | 141122   | 34.63  | ng    | 87       |
| 64) 4,6-Dinitro-2-methylphenol | 11.20 | 198  | 11080    | 23.78  | ng    | # 64     |
| 65) n-Nitrosodiphenylamine     | 11.27 | 169  | 114157   | 27.39  | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 11.71 | 248  | 36474    | 28.58  | ng    | 93       |
| 67) Hexachlorobenzene          | 11.76 | 284  | 37363    | 26.72  | ng    | # 79     |
| 68) Atrazine                   | 11.95 | 200  | 38425    | 31.83  | ng    | 98       |
| 69) Pentachlorophenol          | 12.02 | 266  | 37710    | 62.67  | ng    | 99       |
| 70) Phenanthrene               | 12.27 | 178  | 203051   | 29.13  | ng    | 99       |
| 71) Anthracene                 | 12.33 | 178  | 195524   | 28.47  | ng    | 100      |
| 72) Carbazole                  | 12.55 | 167  | 194640   | 30.24  | ng    | 99       |
| 73) Di-n-butylphthalate        | 13.03 | 149  | 227607   | 31.21  | ng    | 99       |
| 74) Fluoranthene               | 13.73 | 202  | 229738   | 31.25  | ng    | 97       |
| 76) Benzidine                  | 13.93 | 184  | 118249   | 22.95  | ng    | 98       |
| 77) Pyrene                     | 14.00 | 202  | 238152   | 28.35  | ng    | 97       |
| 79) Butylbenzylphthalate       | 14.86 | 149  | 104391   | 32.60  | ng    | 96       |
| 80) Benzo(a)anthracene         | 15.49 | 228  | 232117   | 29.15  | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 15.47 | 252  | 71073    | 26.65  | ng    | # 96     |
| 82) Chrysene                   | 15.52 | 228  | 201503   | 26.93  | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 15.59 | 149  | 152762   | 30.42  | ng    | # 97     |
| 84) Di-n-octyl phthalate       | 16.38 | 149  | 276071   | 33.48  | ng    | # 100    |
| 85) Indeno(1,2,3-cd)pyrene     | 18.43 | 276  | 253462   | 29.86  | ng    | # 86     |
| 87) Benzo(b)fluoranthene       | 16.78 | 252  | 235115   | 27.10  | ng    | 100      |
| 88) Benzo(k)fluoranthene       | 16.78 | 252  | 235103   | 30.49  | ng    | # 94     |
| 89) Benzo(a)pyrene             | 17.15 | 252  | 217756   | 28.76  | ng    | 98       |
| 90) Dibenzo(a,h)anthracene     | 18.46 | 278  | 203526   | 26.85  | ng    | 99       |
| 91) Benzo(g,h,i)perylene       | 18.75 | 276  | 205742   | 27.07  | ng    | 99       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 481

Delta R.T. 0.00 min

Lab File: BF078565.D

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FK-GF-01-014-AMS

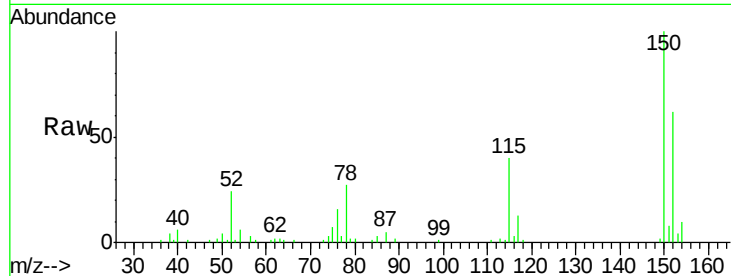
Tgt Ion:152 Resp: 28888

Ion Ratio Lower Upper

152 100

150 161.9 125.9 188.9

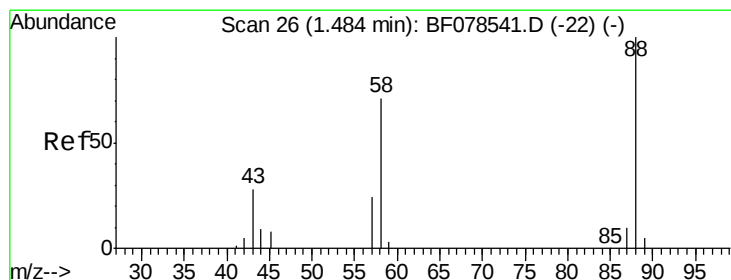
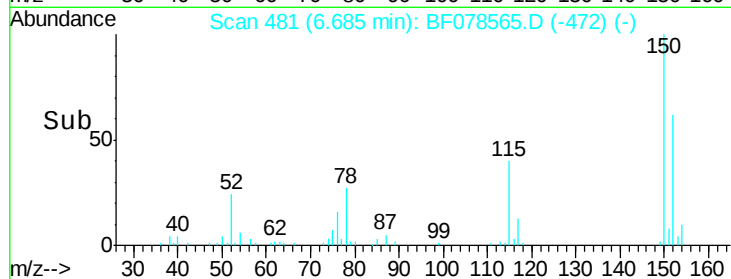
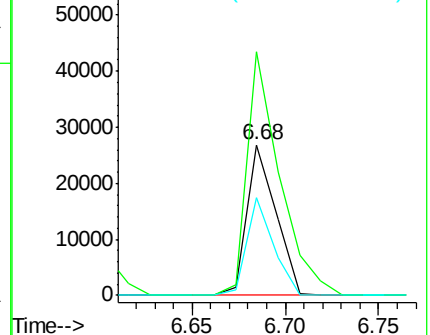
115 64.7 52.7 79.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 22.53 ng

RT: 1.46 min Scan# 24

Delta R.T. 0.02 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

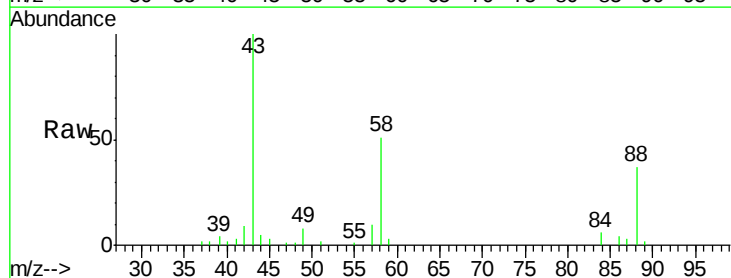
Tgt Ion: 88 Resp: 17847

Ion Ratio Lower Upper

88 100

58 257.3 56.9 85.3#

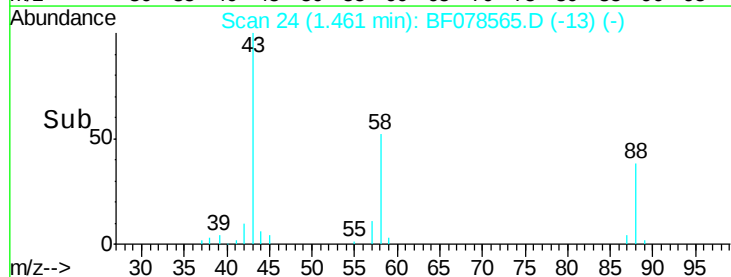
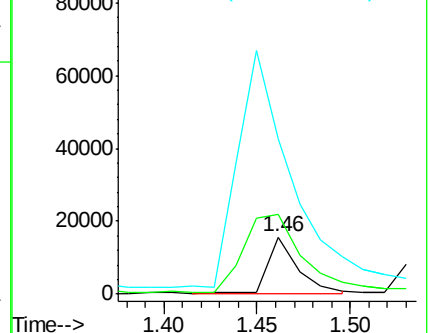
43 708.4 21.4 32.2#

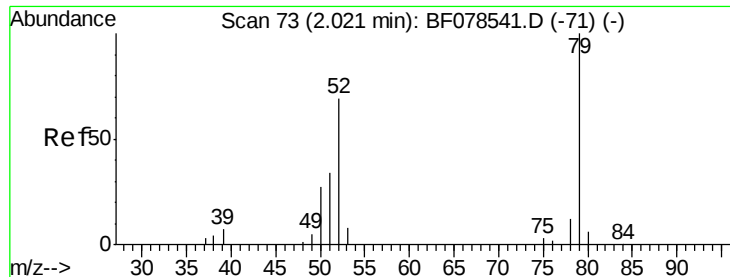


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 26.25 ng

RT: 2.01 min Scan# 72

Delta R.T. 0.02 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

Instrument :

BNA\_F

ClientSampleId :

FK-GF-01-014-AMS

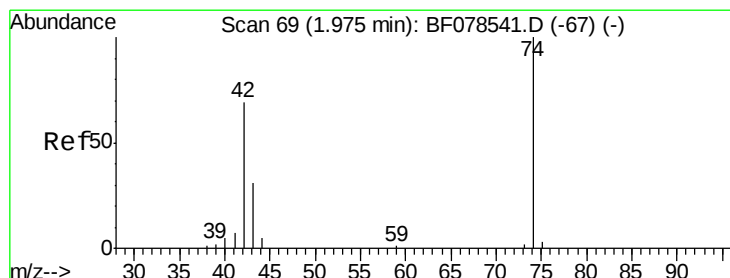
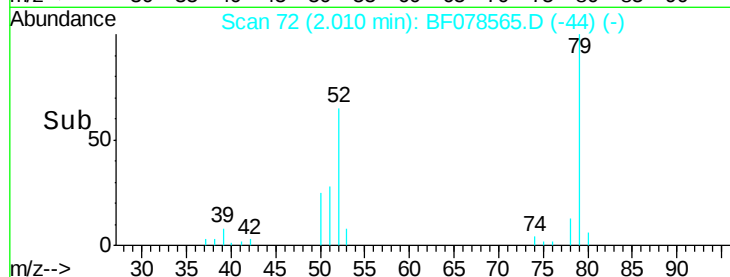
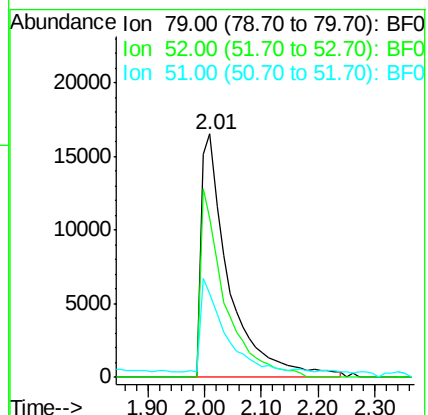
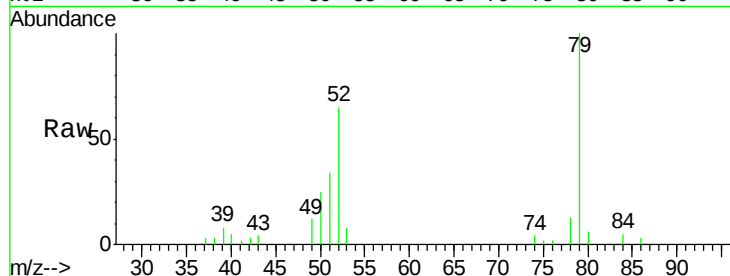
Tgt Ion: 79 Resp: 54483

Ion Ratio Lower Upper

79 100

52 65.3 52.4 78.6

51 34.3 24.9 37.3



#4

n-Nitrosodimethylamine

Concen: 32.09 ng

RT: 1.94 min Scan# 66

Delta R.T. 0.01 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

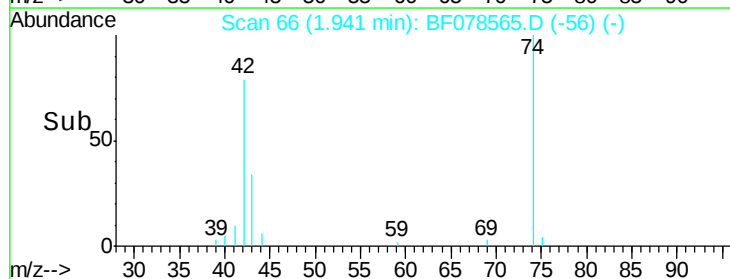
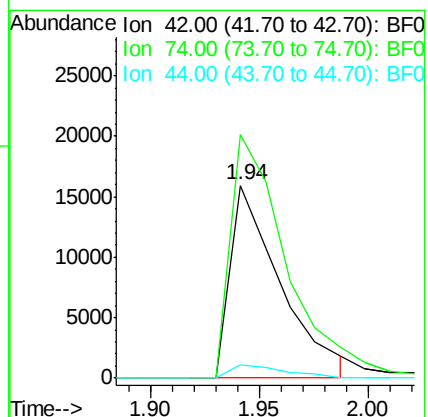
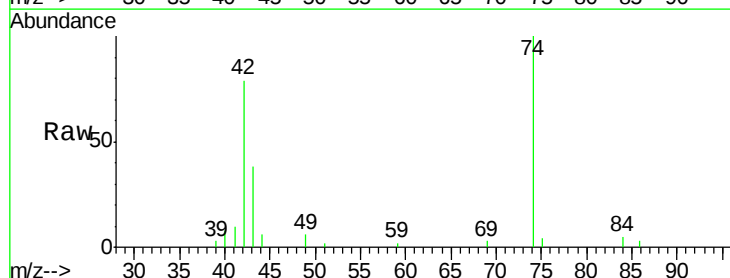
Tgt Ion: 42 Resp: 25632

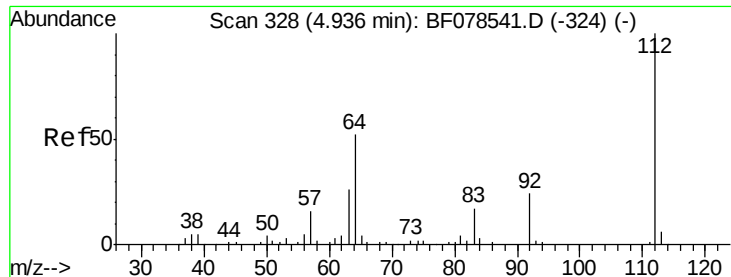
Ion Ratio Lower Upper

42 100

74 126.4 118.7 178.1

44 7.1 5.9 8.9





#5

2-Fluorophenol

Concen: 91.94 ng

RT: 4.91 min Scan# 326

Delta R.T. 0.01 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

Instrument :

BNA\_F

ClientSampleId :

FK-GF-01-014-AMS

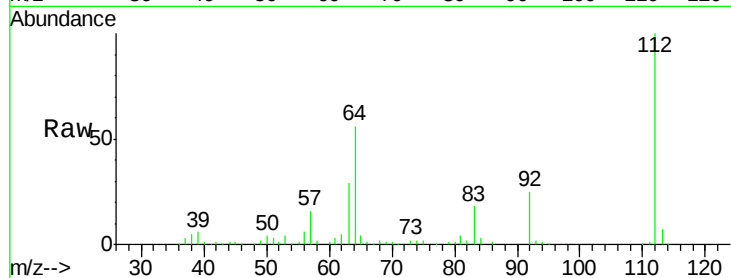
Tgt Ion: 112 Resp: 161085

Ion Ratio Lower Upper

112 100

64 55.9 39.9 59.9

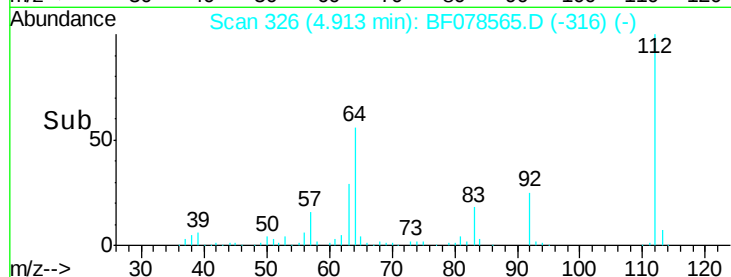
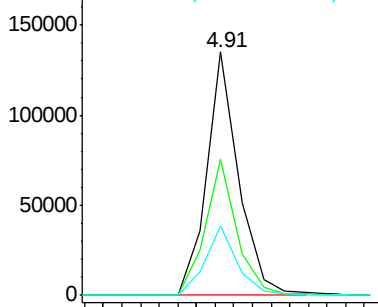
63 28.7 20.2 30.4



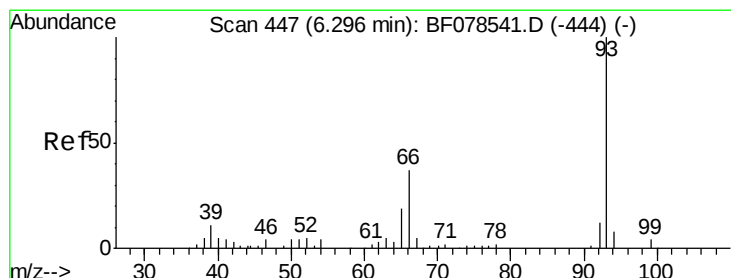
Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



Time-->



#6

Aniline

Concen: 17.18 ng

RT: 6.27 min Scan# 445

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

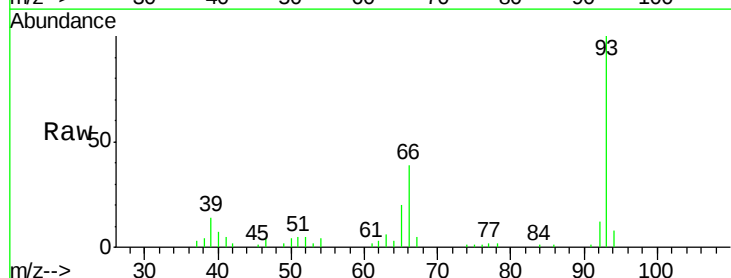
Tgt Ion: 93 Resp: 53502

Ion Ratio Lower Upper

93 100

66 38.9 38.0 57.0

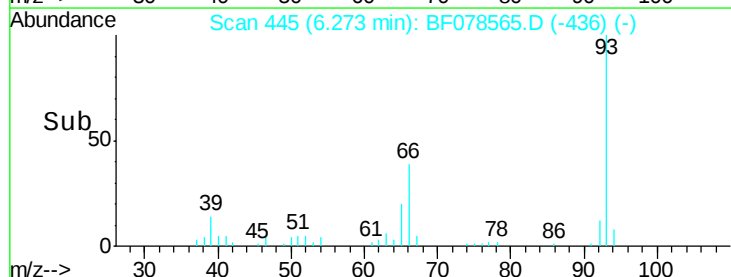
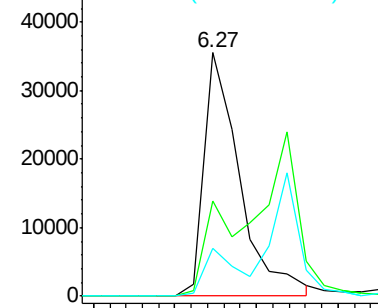
65 19.9 16.3 24.5



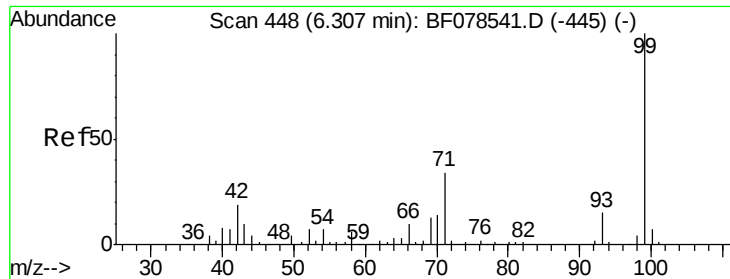
Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0



Time-->



#7

Phenol-d6

Concen: 95.00 ng

RT: 6.30 min Scan# 447

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

Instrument :

BNA\_F

ClientSampleId :

FK-GF-01-014-AMS

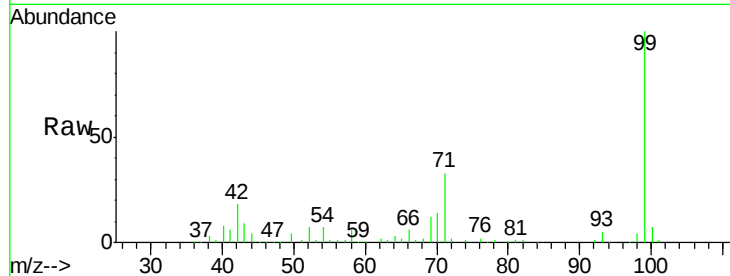
Tgt Ion: 99 Resp: 208605

Ion Ratio Lower Upper

99 100

42 18.5 14.8 22.2

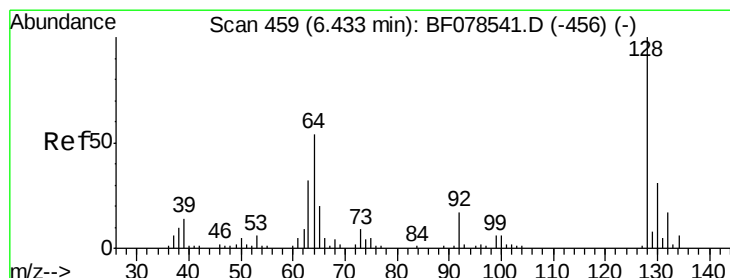
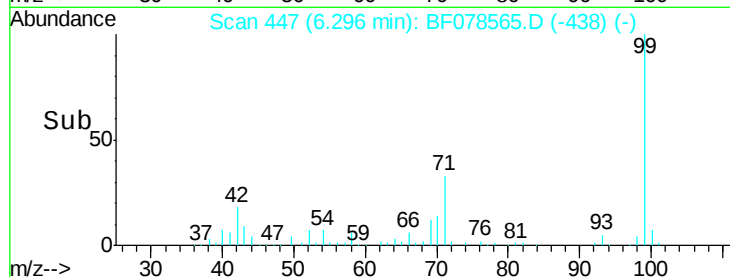
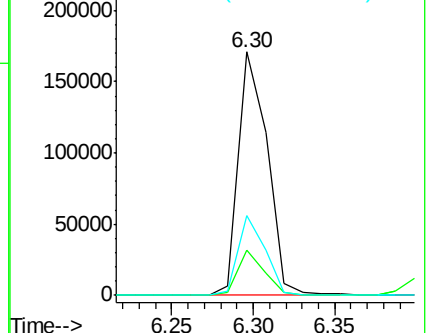
71 32.9 26.6 39.8



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 29.85 ng

RT: 6.42 min Scan# 458

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

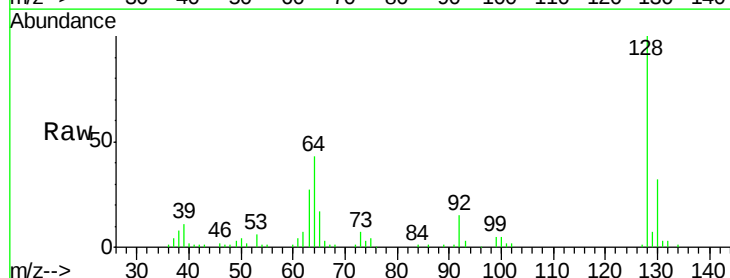
Tgt Ion: 128 Resp: 61840

Ion Ratio Lower Upper

128 100

130 32.2 12.3 52.3

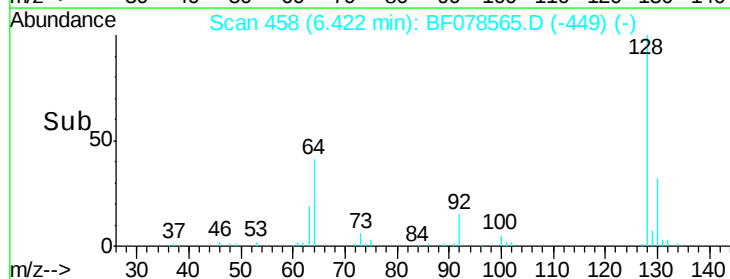
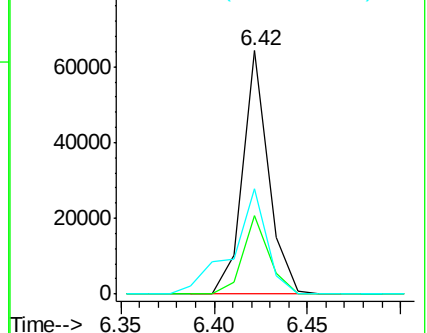
64 43.2 23.8 63.8

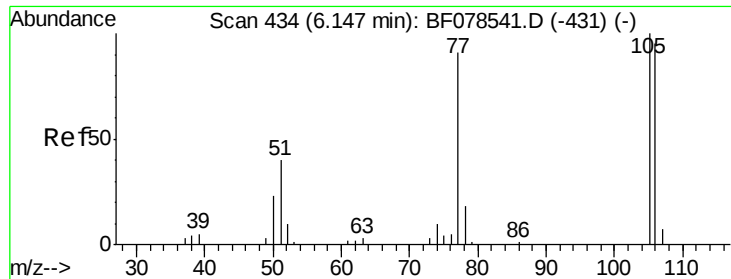


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 8.63 ng

RT: 6.12 min Scan# 432

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

Instrument :

BNA\_F

ClientSampleId :

FK-GF-01-014-AMS

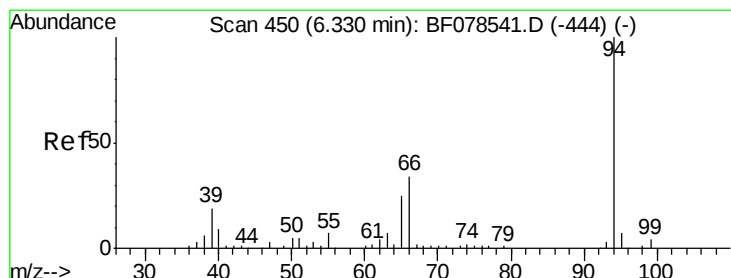
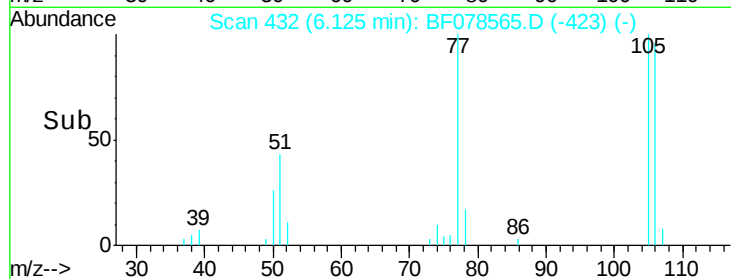
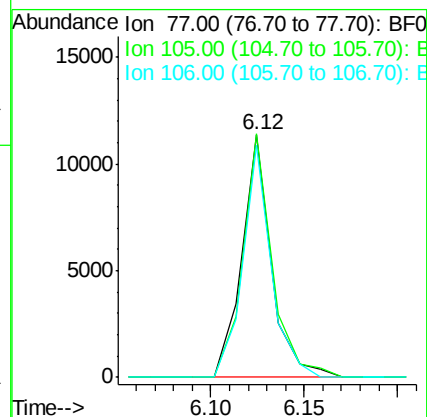
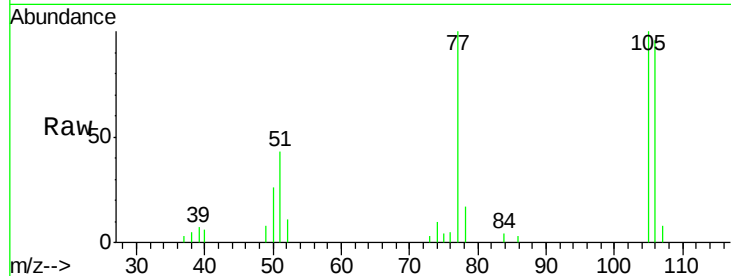
Tgt Ion: 77 Resp: 12555

Ion Ratio Lower Upper

77 100

105 100.5 85.4 125.4

106 95.9 80.8 120.8



#10

Phenol

Concen: 29.40 ng

RT: 6.32 min Scan# 449

Delta R.T. 0.01 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

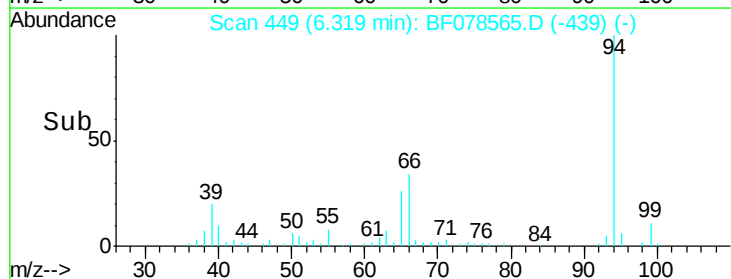
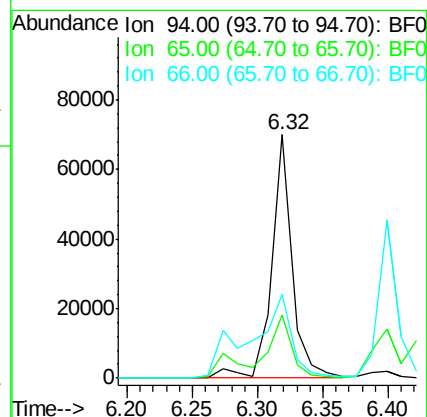
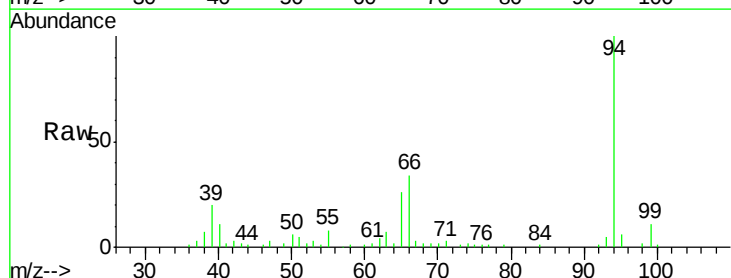
Tgt Ion: 94 Resp: 77339

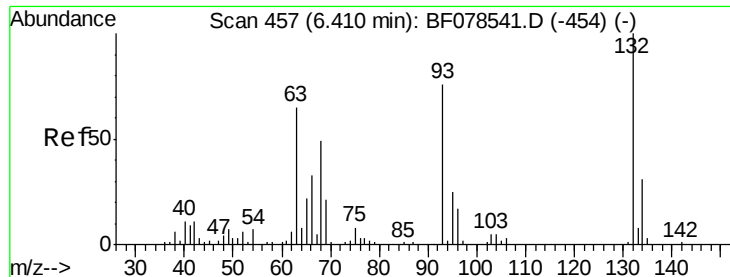
Ion Ratio Lower Upper

94 100

65 25.7 4.9 44.9

66 34.2 13.8 53.8

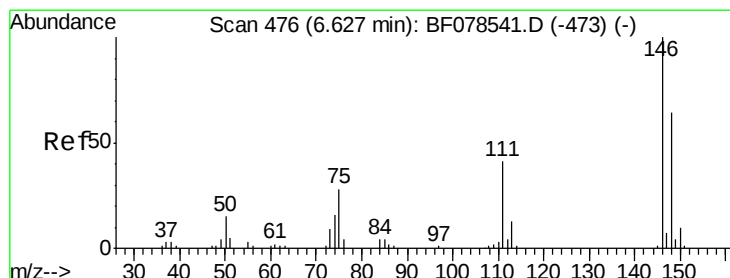
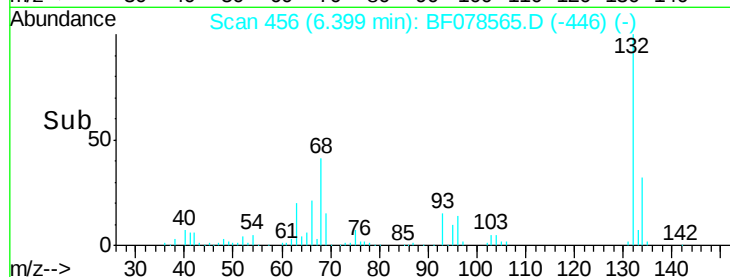
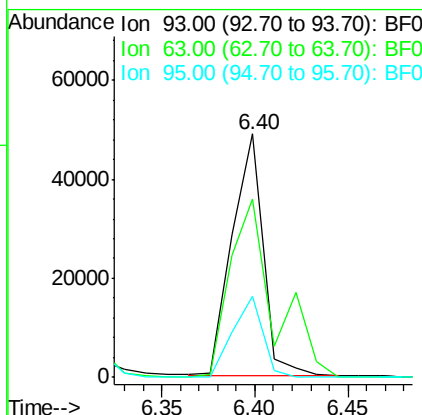
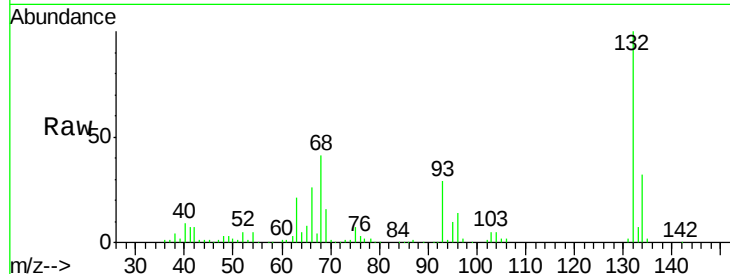




#11  
 bis(2-Chloroethyl)ether  
 Concen: 30.19 ng  
 RT: 6.40 min Scan# 456  
 Delta R.T. 0.01 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

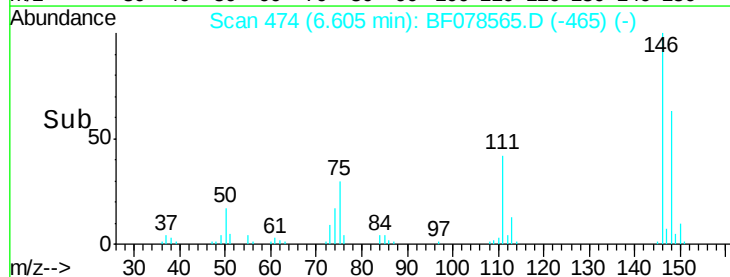
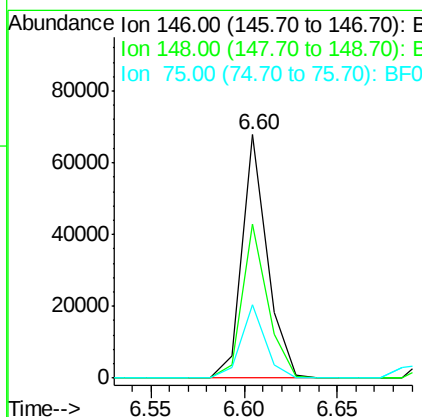
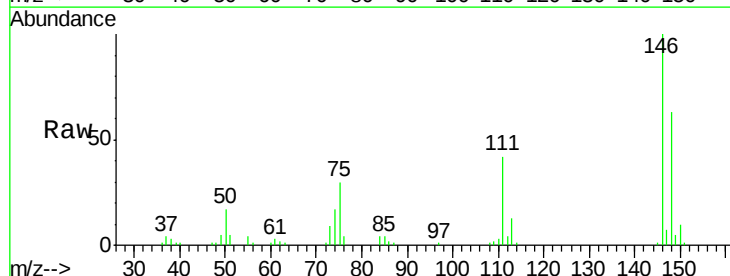
Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-01-014-AMS

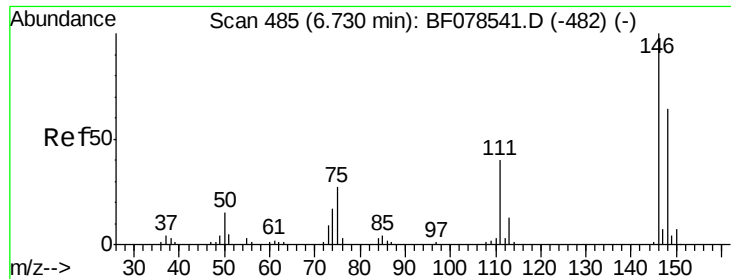
Tgt Ion: 93 Resp: 57127  
 Ion Ratio Lower Upper  
 93 100  
 63 73.4 54.6 94.6  
 95 33.4 13.6 53.6



#12  
 1,3-Dichlorobenzene  
 Concen: 28.10 ng  
 RT: 6.60 min Scan# 474  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

Tgt Ion: 146 Resp: 63949  
 Ion Ratio Lower Upper  
 146 100  
 148 63.1 49.1 73.7  
 75 30.2 26.6 40.0

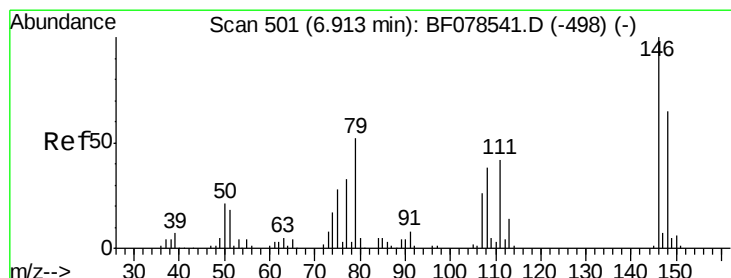
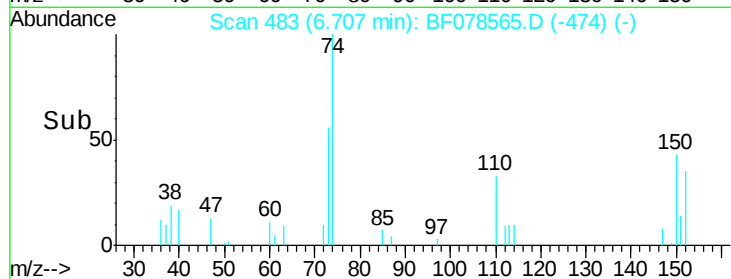
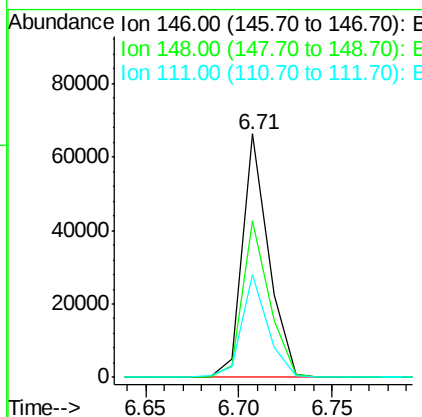
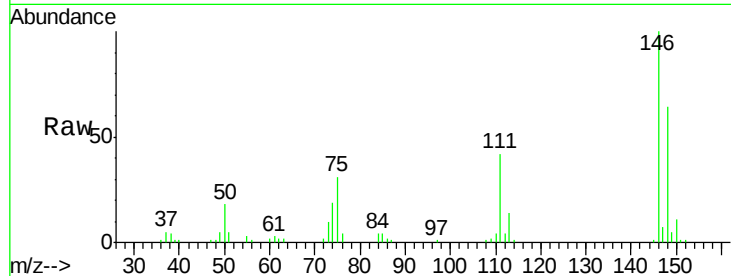




#13  
 1,4-Dichlorobenzene  
 Concen: 28.34 ng  
 RT: 6.71 min Scan# 483  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

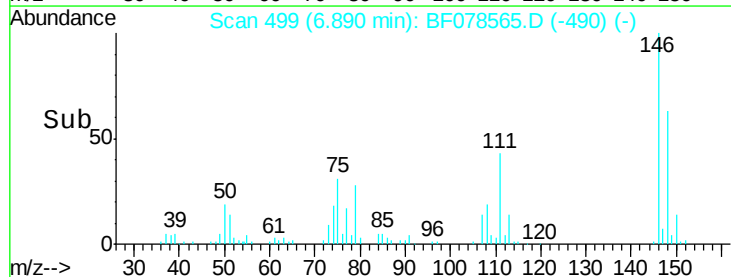
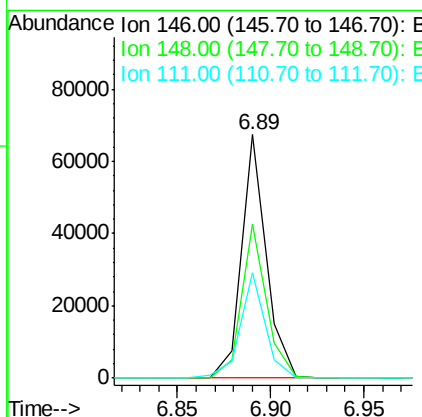
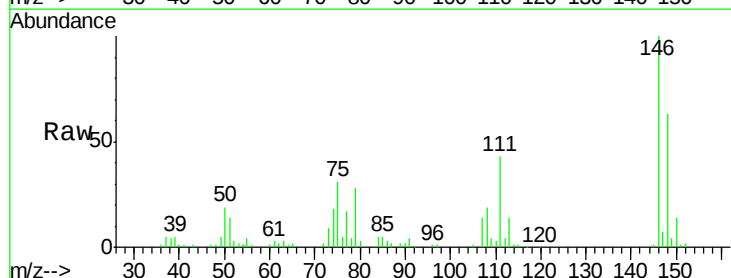
Instrument :  
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 ClientSampleId :  
 FK-GF-01-014-AMS

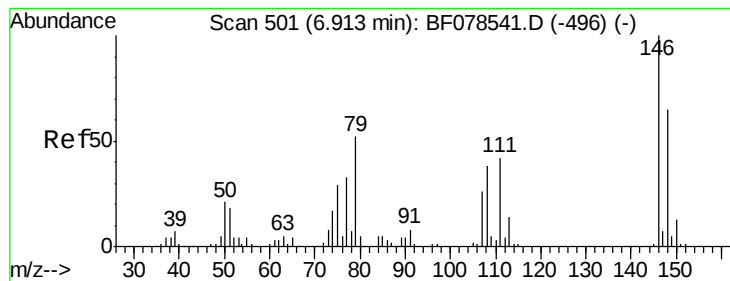
Tgt Ion:146 Resp: 64908  
 Ion Ratio Lower Upper  
 146 100  
 148 64.5 51.4 77.0  
 111 42.4 35.0 52.4



#14  
 1,2-Dichlorobenzene  
 Concen: 28.98 ng  
 RT: 6.89 min Scan# 499  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

Tgt Ion:146 Resp: 62245  
 Ion Ratio Lower Upper  
 146 100  
 148 63.4 50.2 75.4  
 111 43.2 36.1 54.1





#15

Benzyl Alcohol

Concen: 33.49 ng

RT: 6.90 min Scan# 500

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

Instrument :

BNA\_F

ClientSampleId :

FK-GF-01-014-AMS

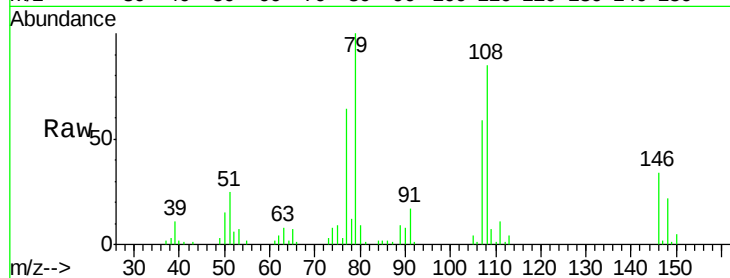
Tgt Ion: 79 Resp: 51669

Ion Ratio Lower Upper

79 100

108 85.2 57.6 86.4

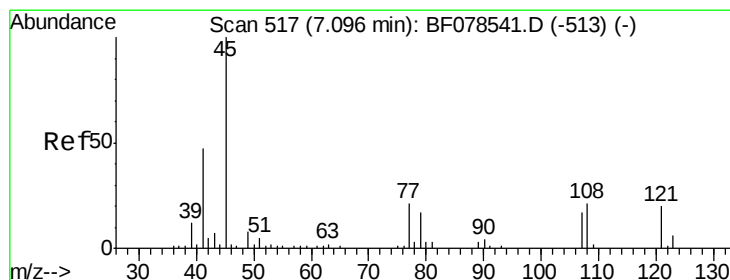
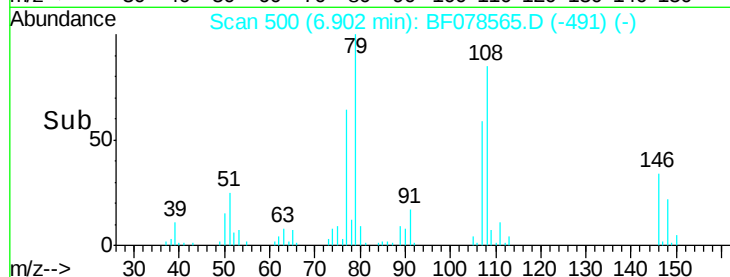
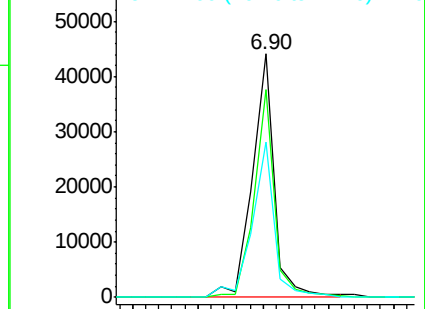
77 63.6 53.5 80.3



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#16

2,2'-oxybis(1-chloropropane)

Concen: 29.74 ng

RT: 7.07 min Scan# 515

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

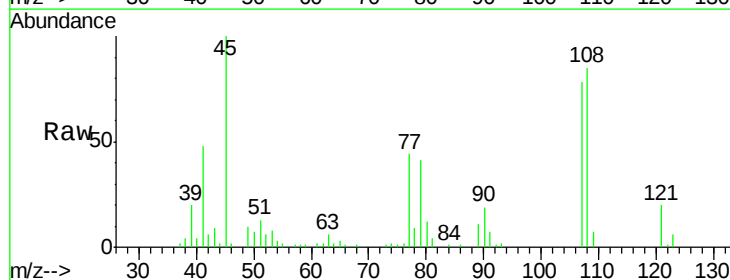
Tgt Ion: 45 Resp: 75048

Ion Ratio Lower Upper

45 100

77 44.2 0.0 34.5#

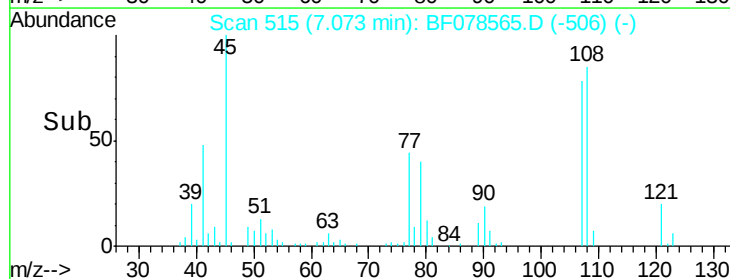
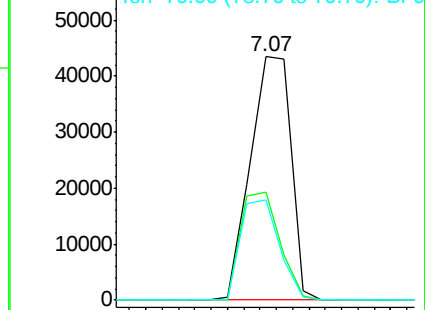
79 41.4 0.0 31.9#

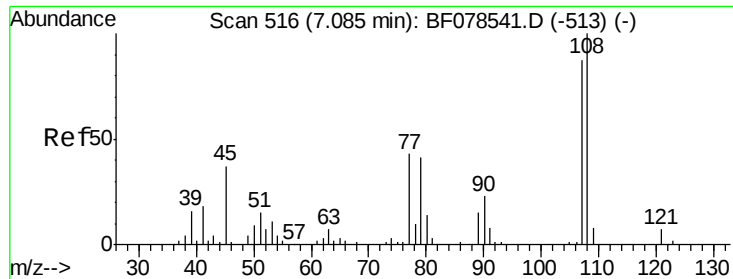


Abundance Ion 45.00 (44.70 to 45.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

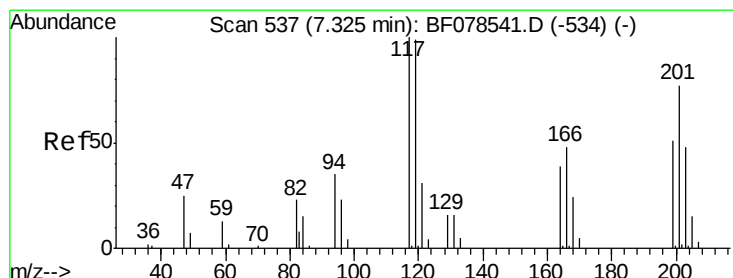
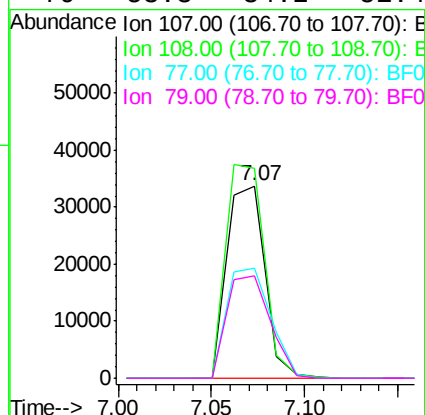
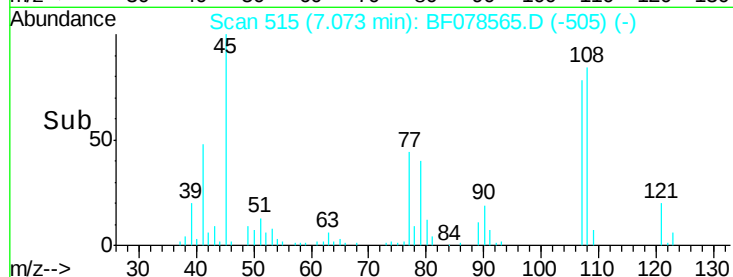
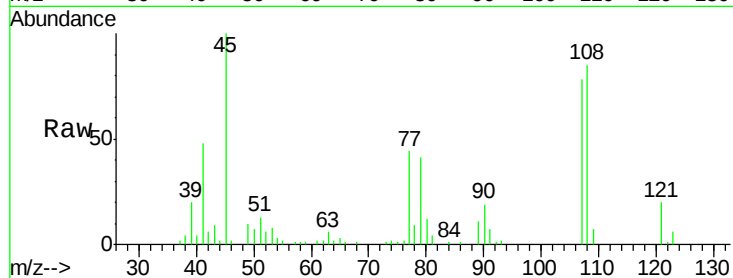




#17  
2-Methylphenol  
Concen: 30.16 ng  
RT: 7.07 min Scan# 515  
Delta R.T. 0.01 min  
Lab File: BF078565.D  
Acq: 16 Apr 2015 15:01

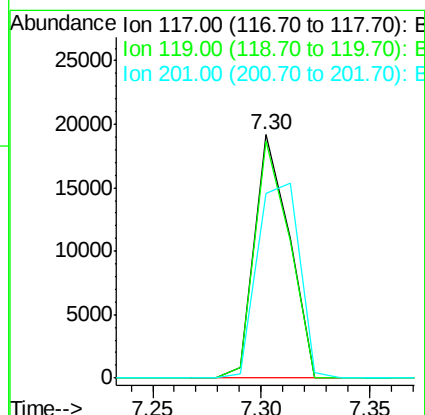
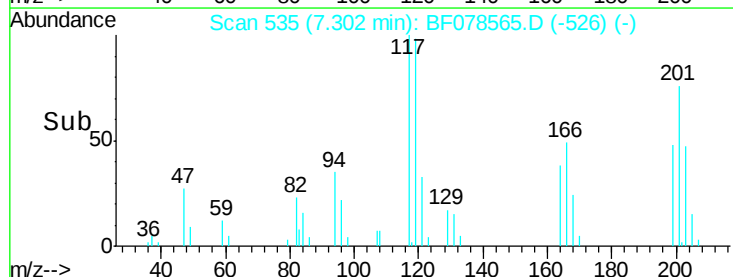
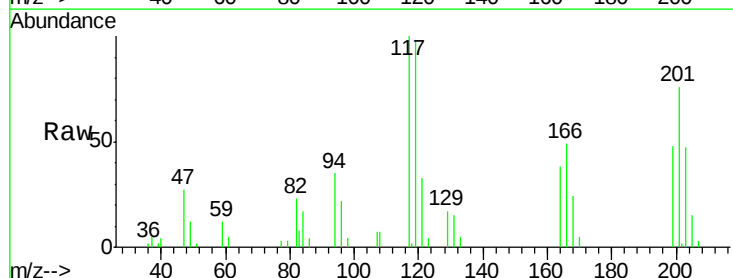
Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-01-014-AMS

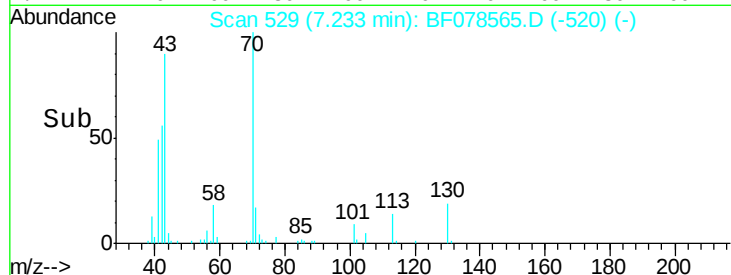
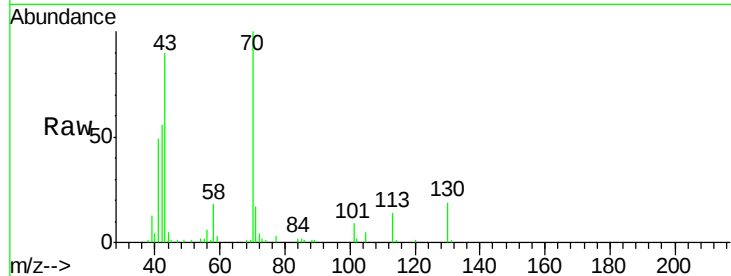
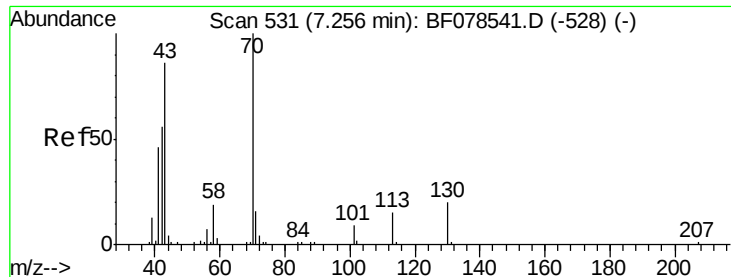
Tgt Ion:107 Resp: 48507  
Ion Ratio Lower Upper  
107 100  
108 109.0 90.3 135.5  
77 56.9 35.5 53.3#  
79 53.3 34.2 51.4#



#18  
Hexachloroethane  
Concen: 27.58 ng  
RT: 7.30 min Scan# 535  
Delta R.T. 0.00 min  
Lab File: BF078565.D  
Acq: 16 Apr 2015 15:01

Tgt Ion:117 Resp: 21304  
Ion Ratio Lower Upper  
117 100  
119 97.6 77.0 115.6  
201 76.0 98.1 147.1#

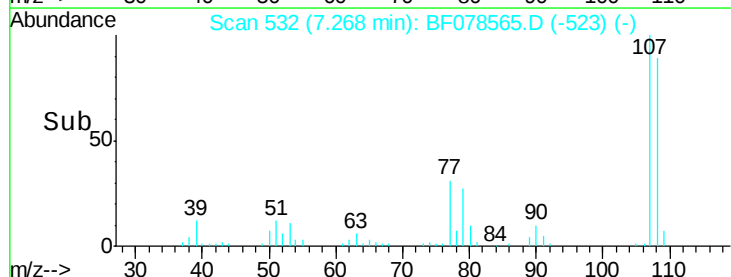
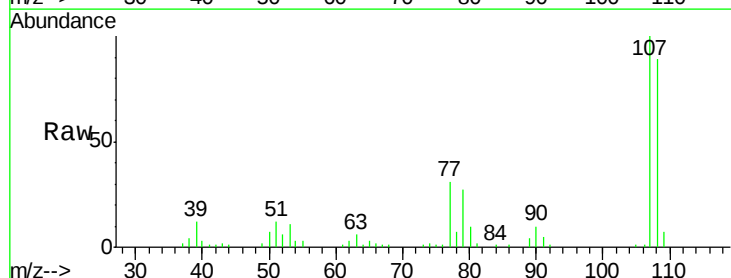
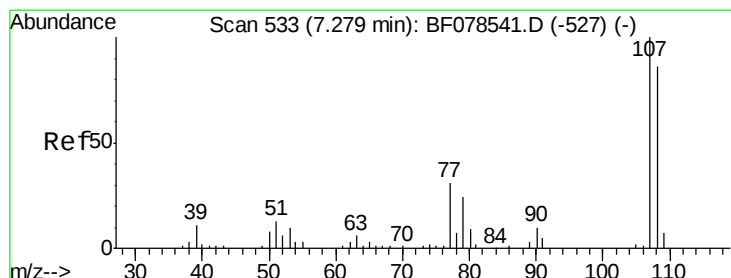
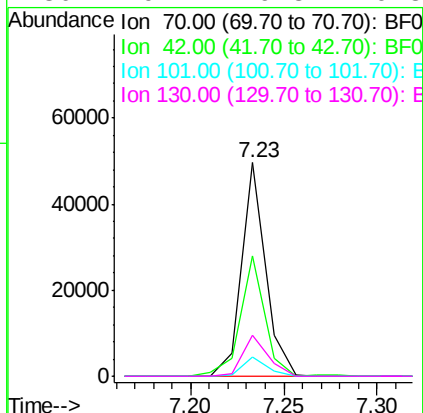




#19  
n-Nitroso-di-n-propylamine  
Concen: 30.65 ng  
RT: 7.23 min Scan# 529  
Delta R.T. 0.00 min  
Lab File: BF078565.D  
Acq: 16 Apr 2015 15:01

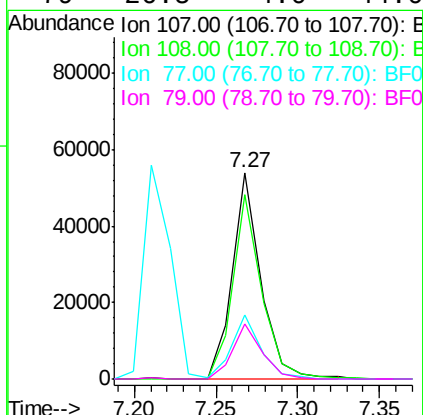
Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-01-014-AMS

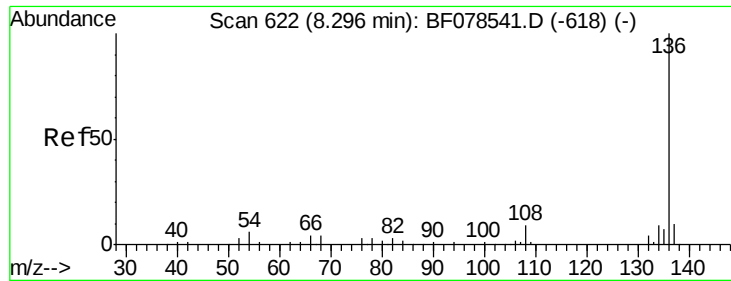
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 70    | Resp: | 44402 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 56.3  | 38.9  | 58.3  |
| 101      | 8.8   | 8.3   | 12.5  |
| 130      | 19.1  | 19.8  | 29.8# |



#20  
3+4-Methylphenols  
Concen: 30.51 ng  
RT: 7.27 min Scan# 532  
Delta R.T. 0.00 min  
Lab File: BF078565.D  
Acq: 16 Apr 2015 15:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 65460 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 89.1  | 64.4  | 104.4 |
| 77       | 30.7  | 9.7   | 49.7  |
| 79       | 26.5  | 4.0   | 44.0  |

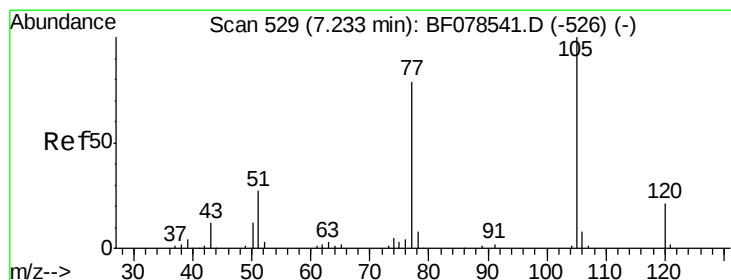
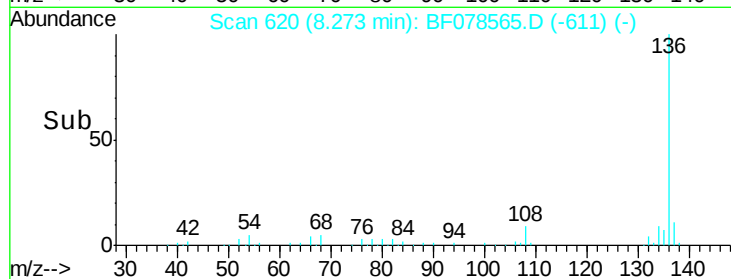
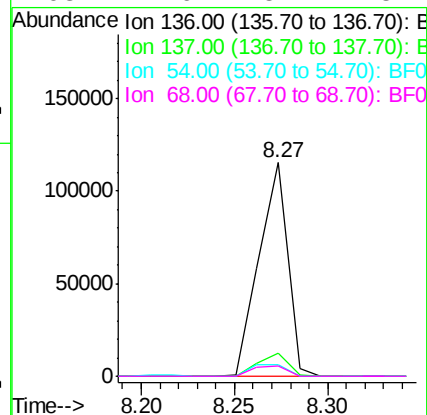
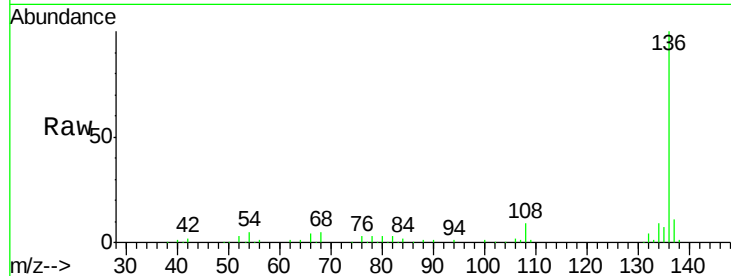




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.27 min Scan# 620  
Delta R.T. 0.00 min  
Lab File: BF078565.D  
Acq: 16 Apr 2015 15:01

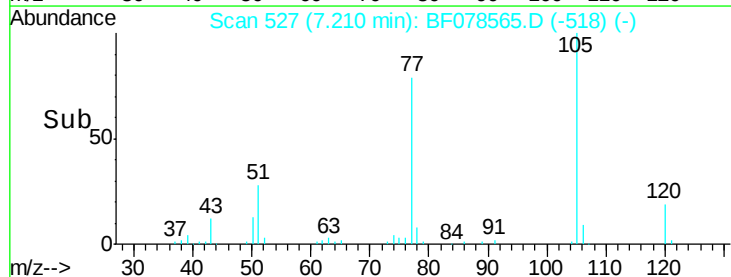
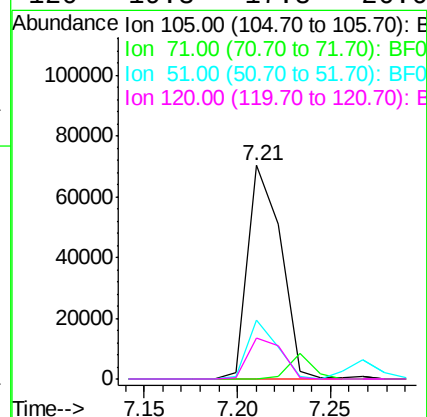
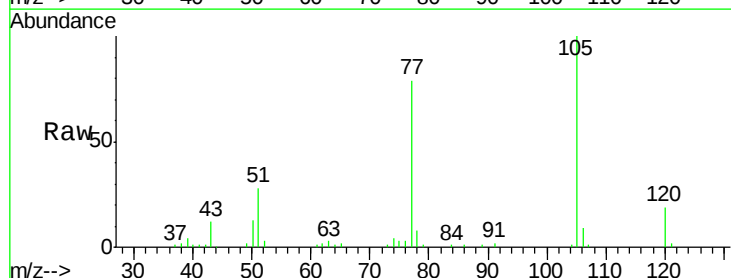
Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-01-014-AMS

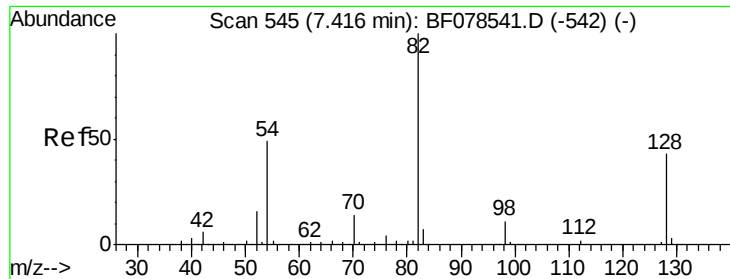
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 122360 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 9.0   | 13.4   |
| 54       | 5.4   | 7.0   | 10.6#  |
| 68       | 4.6   | 5.4   | 8.2#   |



#22  
Acetophenone  
Concen: 30.47 ng  
RT: 7.21 min Scan# 527  
Delta R.T. 0.00 min  
Lab File: BF078565.D  
Acq: 16 Apr 2015 15:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 86879 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 0.0   | 5.5   | 8.3#  |
| 51       | 27.8  | 16.0  | 24.0# |
| 120      | 19.3  | 17.8  | 26.6  |

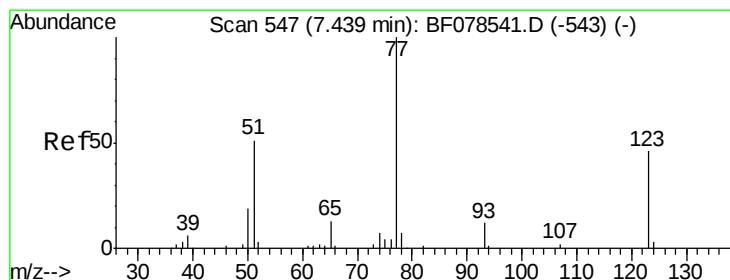
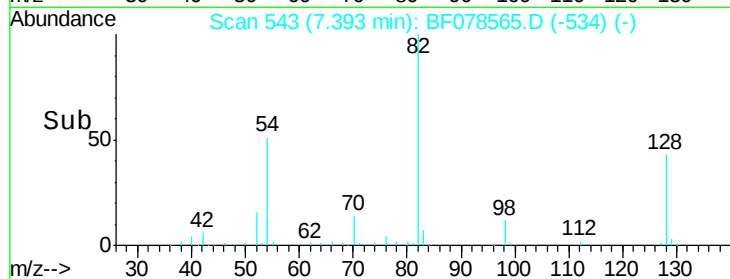
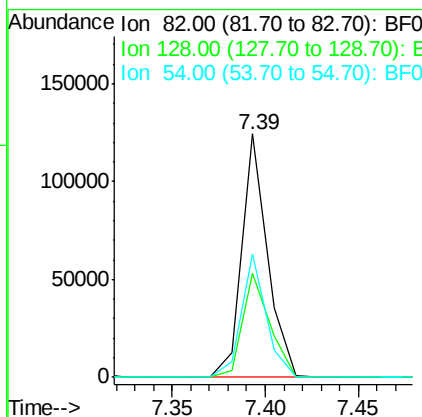
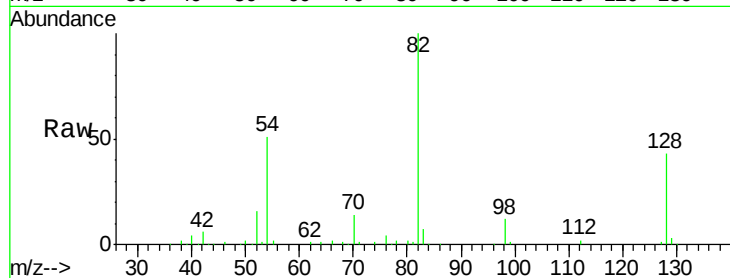




#23  
 Nitrobenzene-d5  
 Concen: 58.90 ng  
 RT: 7.39 min Scan# 543  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

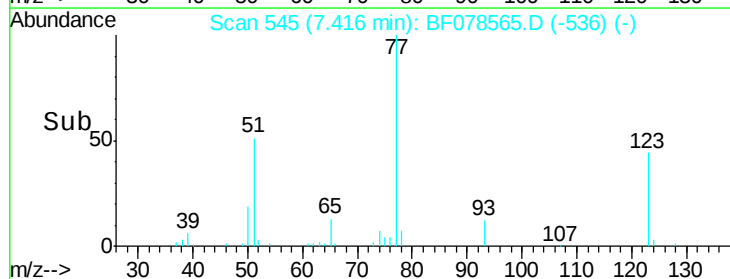
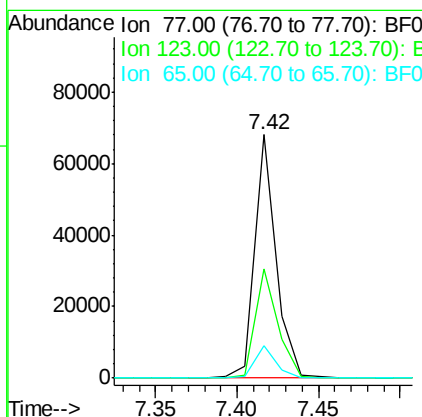
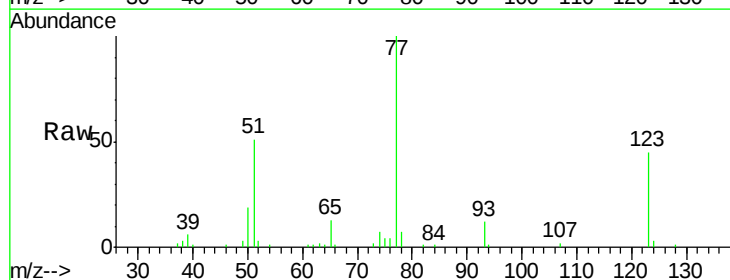
Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-01-014-AMS

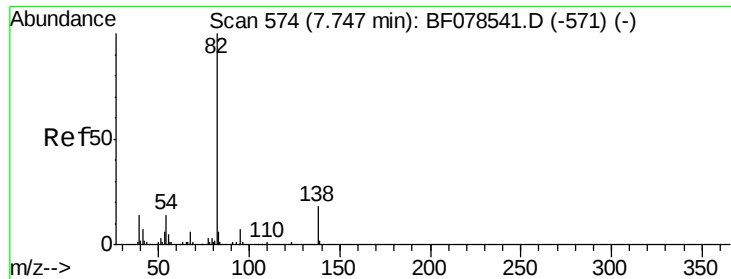
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.7  | 31.8  | 47.8  |
| 54      | 50.7  | 41.5  | 62.3  |



#24  
 Nitrobenzene  
 Concen: 29.38 ng  
 RT: 7.42 min Scan# 545  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 44.8  | 46.9  | 70.3# |
| 65      | 13.3  | 9.5   | 14.3  |





#25

Isophorone

Concen: 30.02 ng

RT: 7.72 min Scan# 572

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

Instrument :

BNA\_F

ClientSampleId :

FK-GF-01-014-AMS

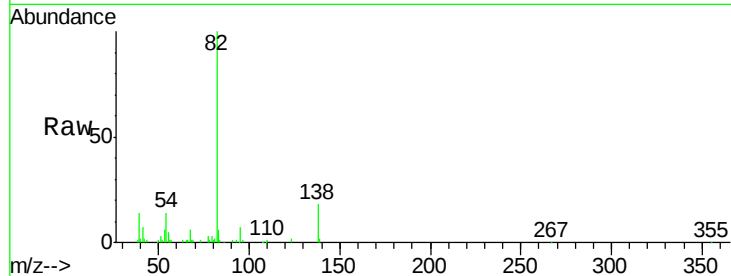
Tgt Ion: 82 Resp: 115011

Ion Ratio Lower Upper

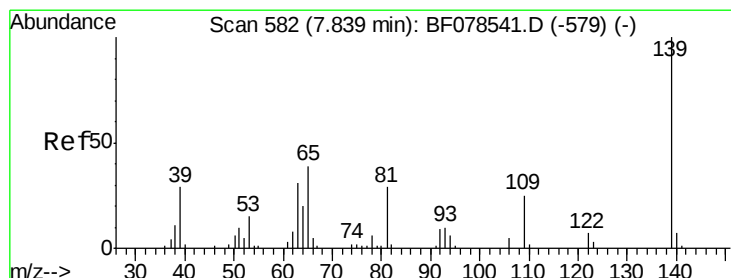
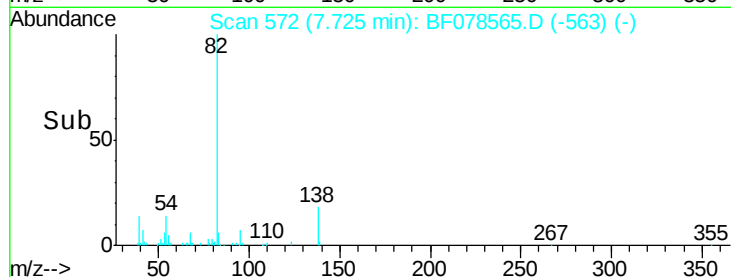
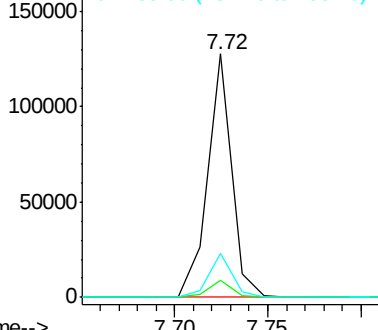
82 100

95 6.9 5.7 8.5

138 17.9 15.8 23.8



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0



#26

2-Nitrophenol

Concen: 30.56 ng

RT: 7.82 min Scan# 580

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

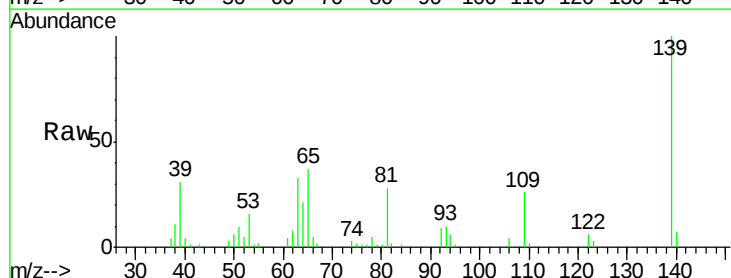
Tgt Ion: 139 Resp: 30732

Ion Ratio Lower Upper

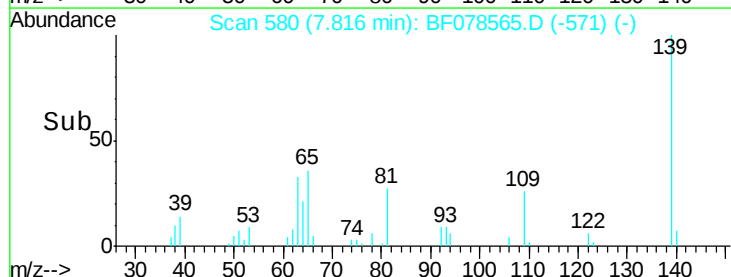
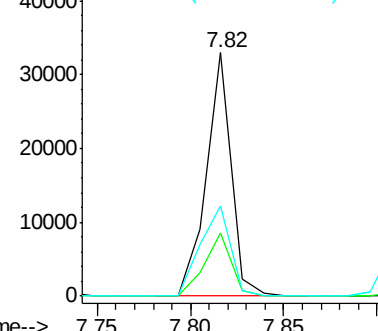
139 100

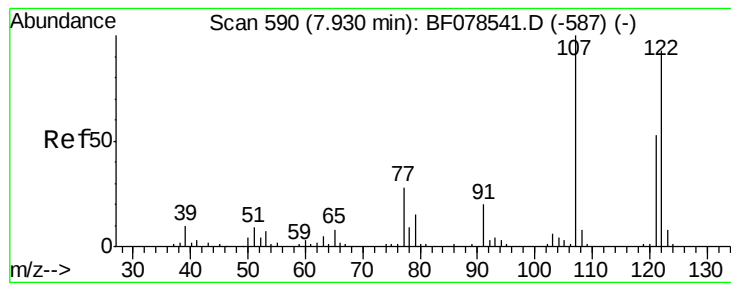
109 26.0 19.8 29.8

65 37.2 32.7 49.1



Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF0

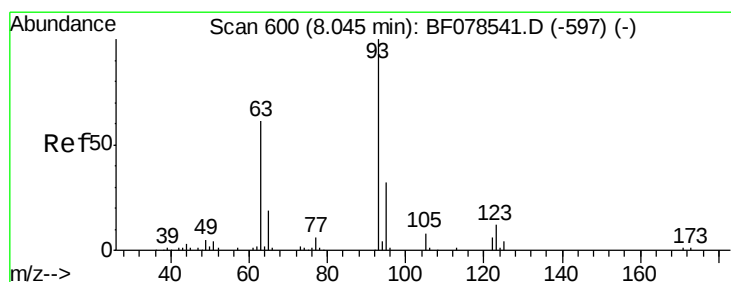
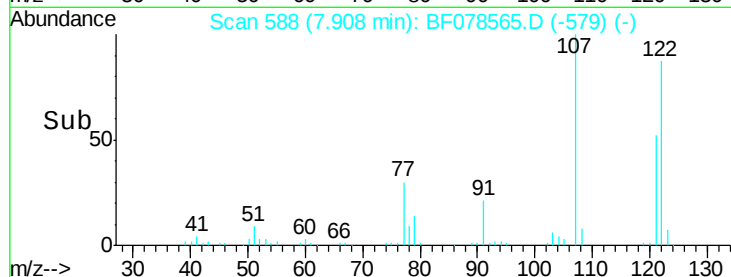
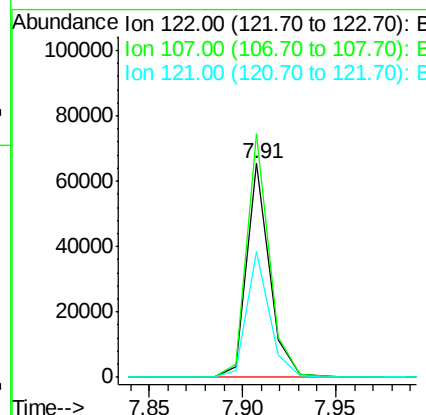
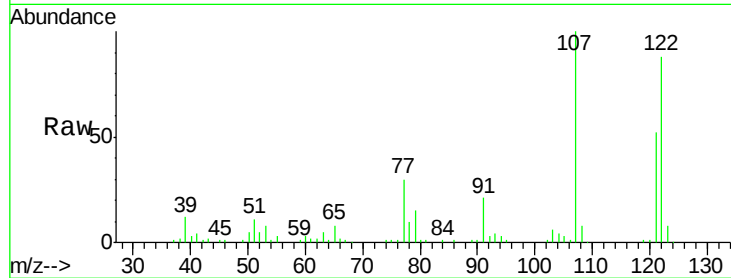




#27  
 2,4-Dimethylphenol  
 Concen: 29.90 ng  
 RT: 7.91 min Scan# 588  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

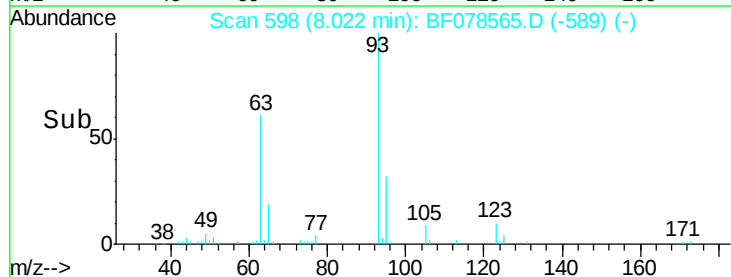
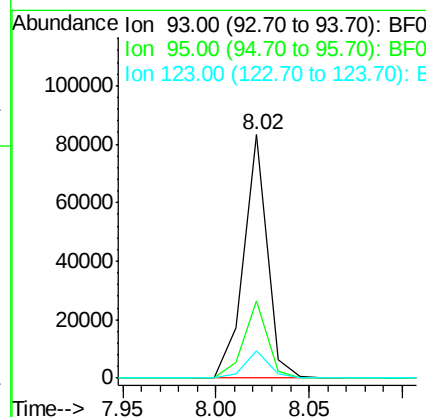
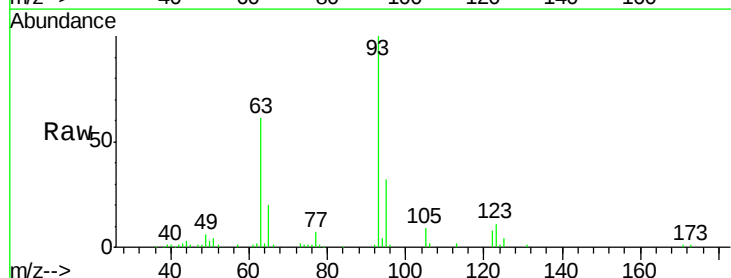
Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-01-014-AMS

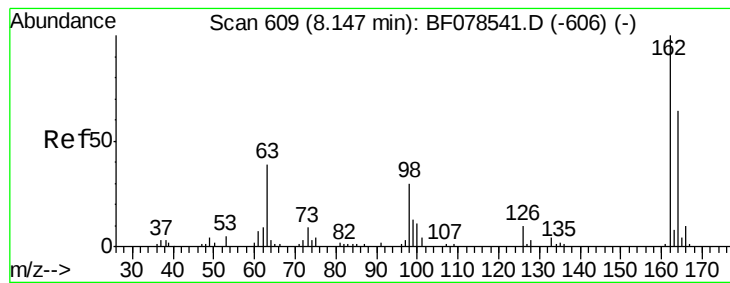
Tgt Ion:122 Resp: 55913  
 Ion Ratio Lower Upper  
 122 100  
 107 113.8 84.6 127.0  
 121 58.7 46.0 69.0



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 29.92 ng  
 RT: 8.02 min Scan# 598  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

Tgt Ion: 93 Resp: 73511  
 Ion Ratio Lower Upper  
 93 100  
 95 31.8 26.3 39.5  
 123 11.4 9.1 13.7





#29

2,4-Dichlorophenol

Concen: 31.43 ng

RT: 8.12 min Scan# 607

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

Instrument :

BNA\_F

ClientSampleId :

FK-GF-01-014-AMS

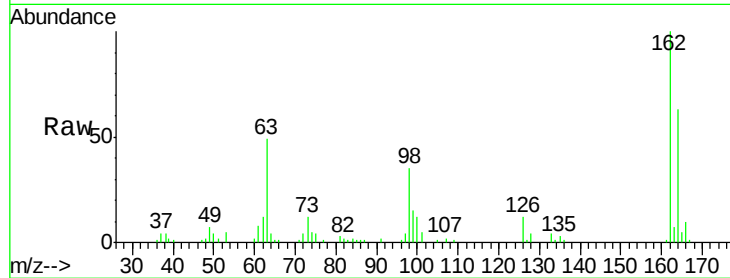
Tgt Ion:162 Resp: 53471

Ion Ratio Lower Upper

162 100

164 63.5 47.0 87.0

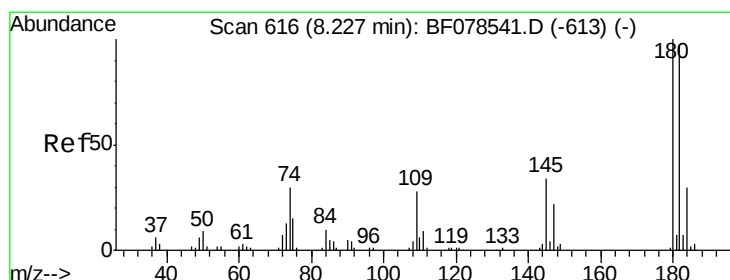
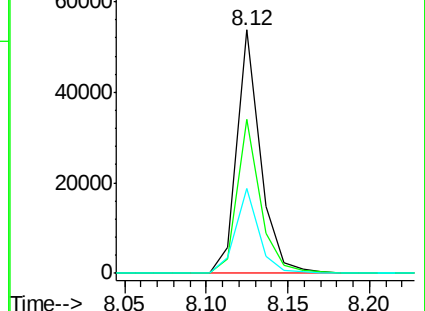
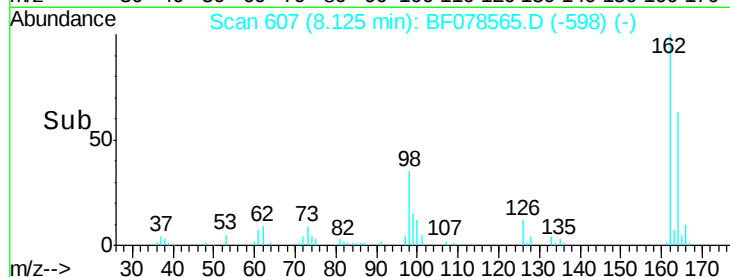
98 34.8 9.2 49.2



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BF0



#30

1,2,4-Trichlorobenzene

Concen: 27.02 ng

RT: 8.20 min Scan# 614

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

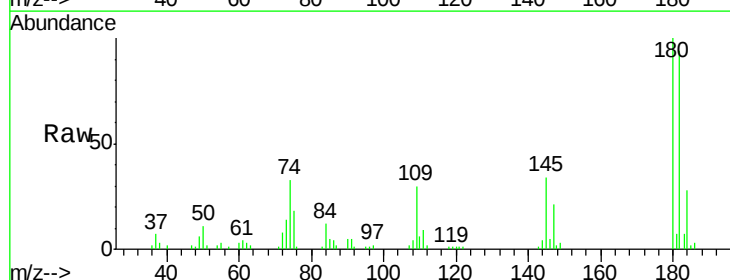
Tgt Ion:180 Resp: 52706

Ion Ratio Lower Upper

180 100

182 94.2 76.9 115.3

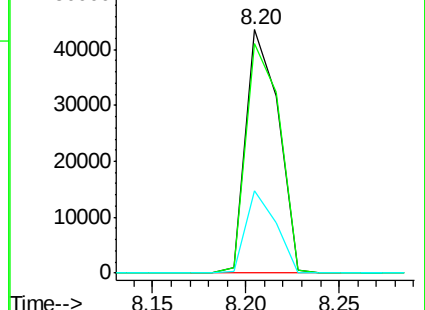
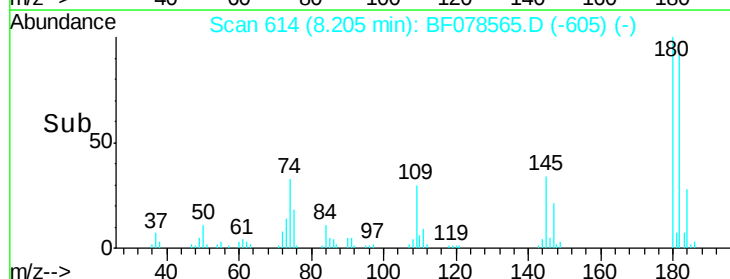
145 34.0 22.5 33.7#

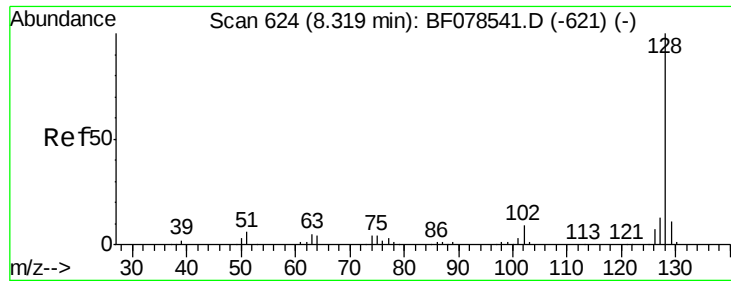


Abundance Ion 180.00 (179.70 to 180.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E

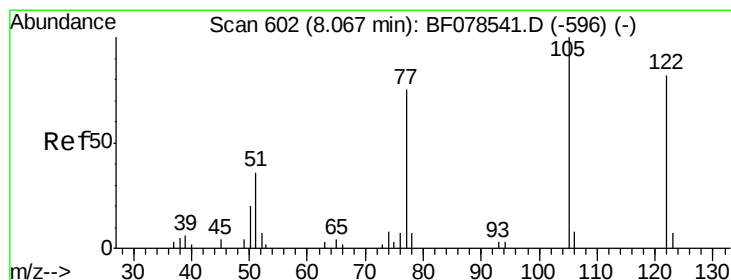
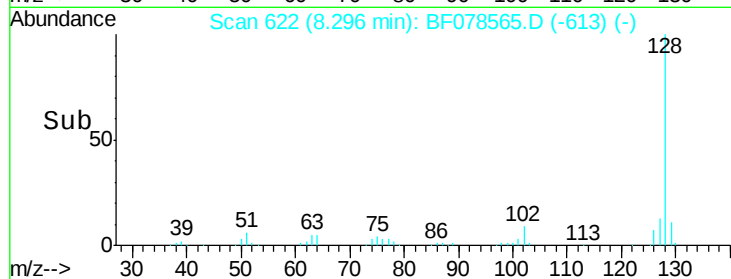
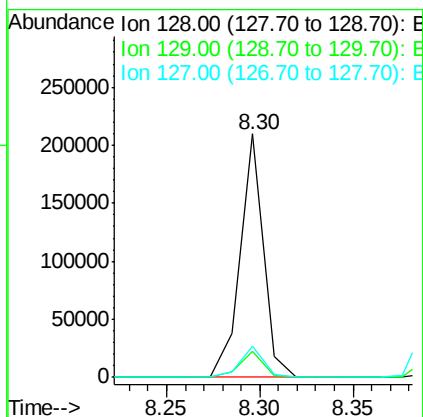
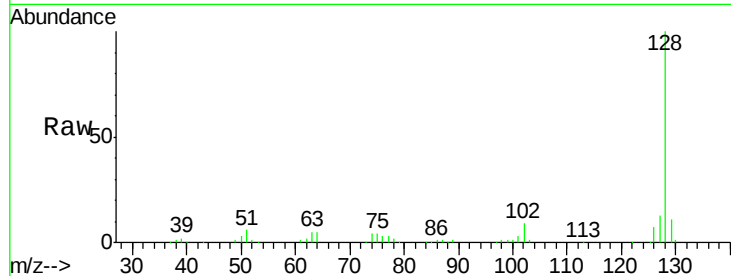




#31  
Naphthalene  
Concen: 28.67 ng  
RT: 8.30 min Scan# 622  
Delta R.T. 0.00 min  
Lab File: BF078565.D  
Acq: 16 Apr 2015 15:01

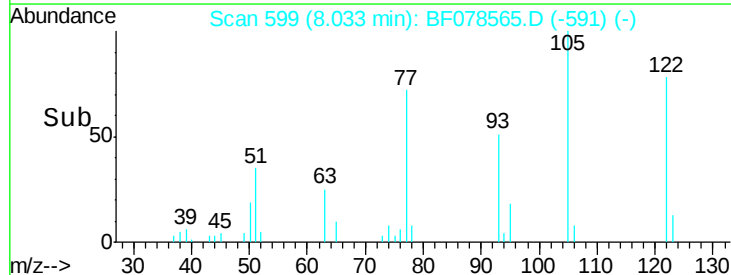
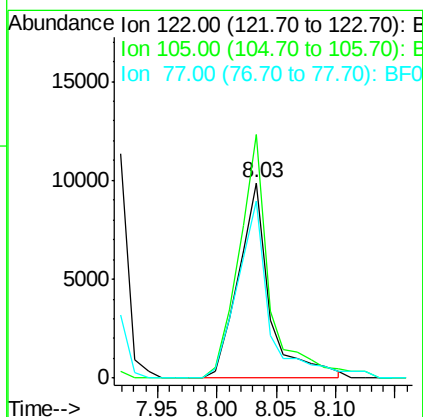
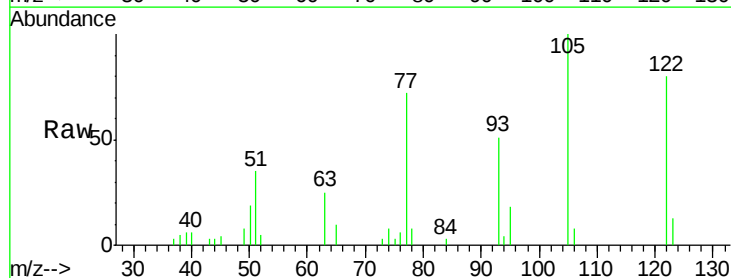
Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-01-014-AMS

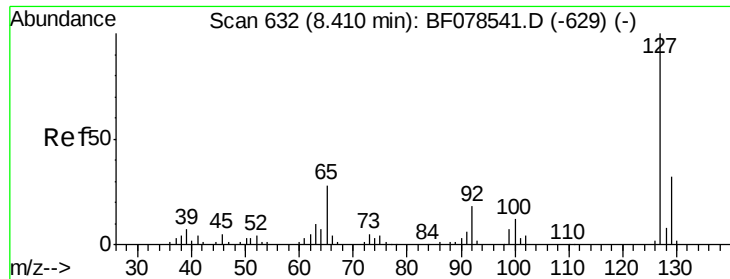
Tgt Ion:128 Resp: 182589  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.6 12.8  
127 12.7 10.7 16.1



#32  
Benzoic acid  
Concen: 23.95 ng  
RT: 8.03 min Scan# 599  
Delta R.T. -0.01 min  
Lab File: BF078565.D  
Acq: 16 Apr 2015 15:01

Tgt Ion:122 Resp: 18155  
Ion Ratio Lower Upper  
122 100  
105 124.6 96.1 136.1  
77 90.3 64.1 104.1

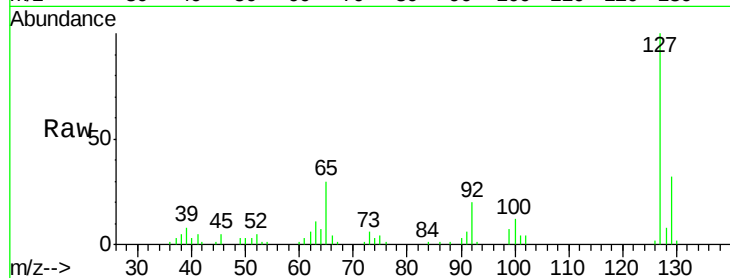




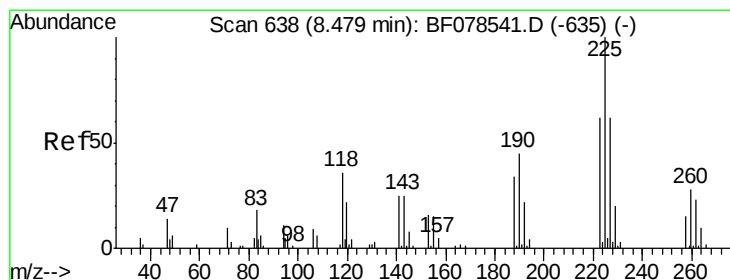
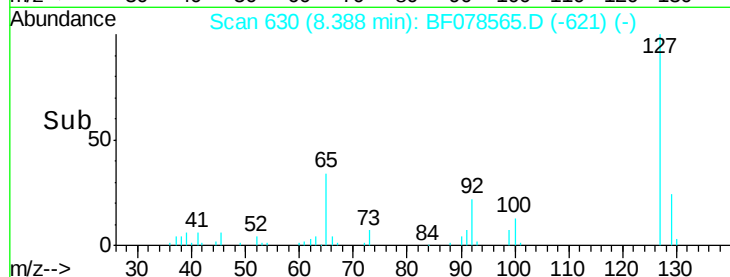
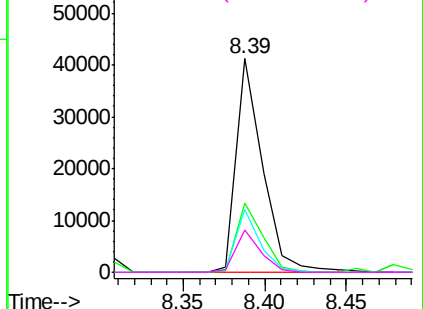
#33  
4-Chloroaniline  
Concen: 17.31 ng  
RT: 8.39 min Scan# 630  
Delta R.T. 0.00 min  
Lab File: BF078565.D  
Acq: 16 Apr 2015 15:01

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-01-014-AMS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 45744 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 32.1  | 25.5  | 38.3  |
| 65       | 29.7  | 21.7  | 32.5  |
| 92       | 19.6  | 14.6  | 21.8  |

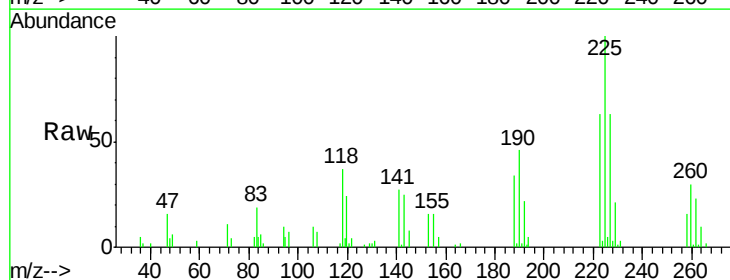


Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0

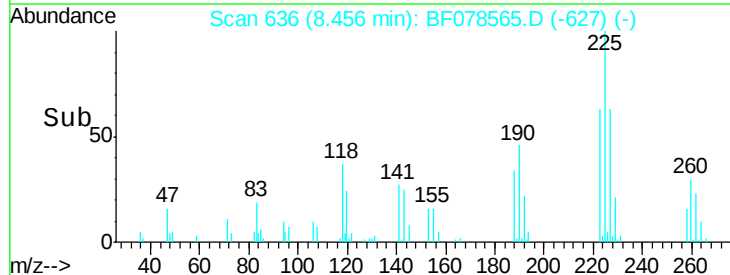
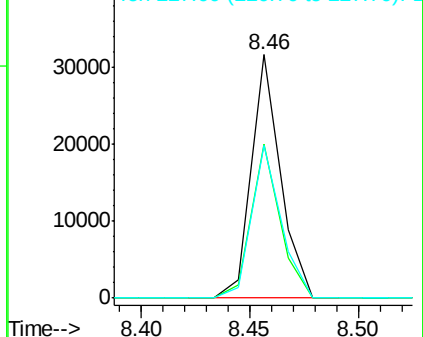


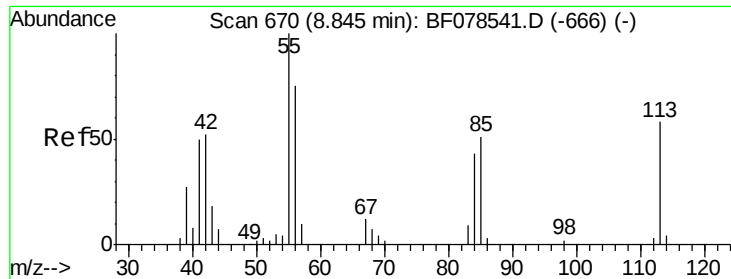
#34  
Hexachlorobutadiene  
Concen: 27.36 ng  
RT: 8.46 min Scan# 636  
Delta R.T. 0.00 min  
Lab File: BF078565.D  
Acq: 16 Apr 2015 15:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 29302 |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 63.4  | 47.5  | 71.3  |
| 227      | 62.8  | 50.2  | 75.2  |



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

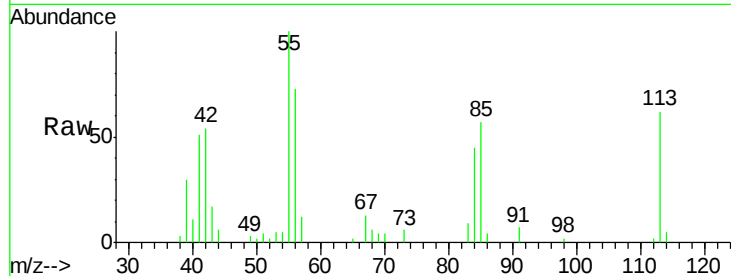




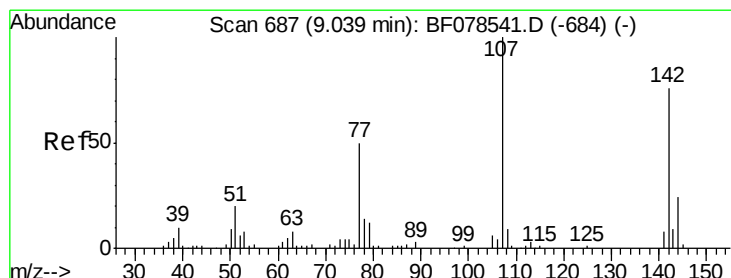
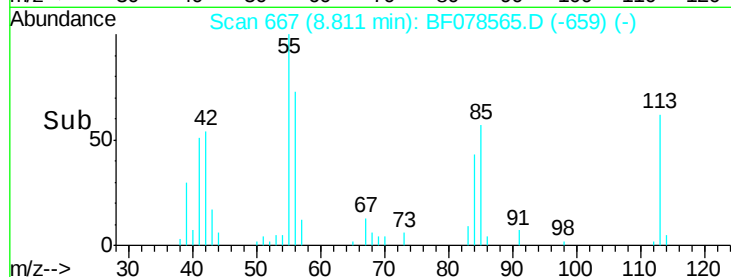
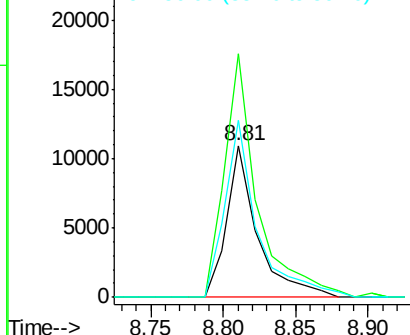
#35  
 Caprolactam  
 Concen: 31.89 ng  
 RT: 8.81 min Scan# 667  
 Delta R.T. -0.01 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-01-014-AMS

Tgt Ion:113 Resp: 16193  
 Ion Ratio Lower Upper  
 113 100  
 55 160.6 151.9 191.9  
 56 116.7 106.1 146.1

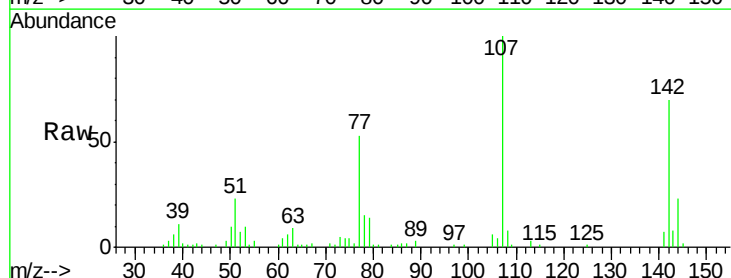


Abundance Ion 113.00 (112.70 to 113.70): E  
 Ion 55.00 (54.70 to 55.70): BF0  
 Ion 56.00 (55.70 to 56.70): BF0

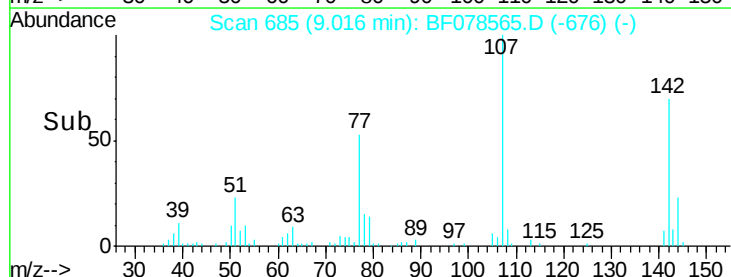
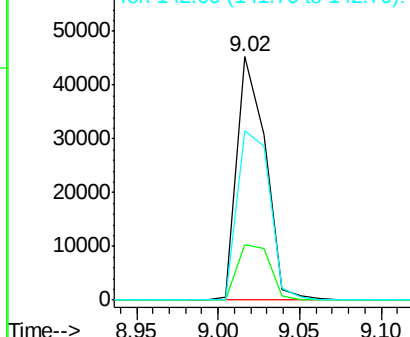


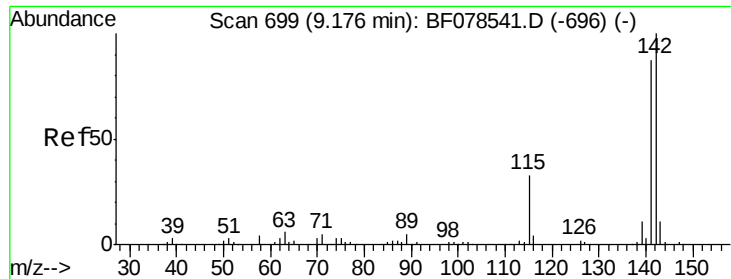
#36  
 4-Chloro-3-methylphenol  
 Concen: 31.86 ng  
 RT: 9.02 min Scan# 685  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

Tgt Ion:107 Resp: 54686  
 Ion Ratio Lower Upper  
 107 100  
 144 23.0 18.2 27.2  
 142 69.5 58.0 87.0



Abundance Ion 107.00 (106.70 to 107.70): E  
 Ion 144.00 (143.70 to 144.70): E  
 Ion 142.00 (141.70 to 142.70): E

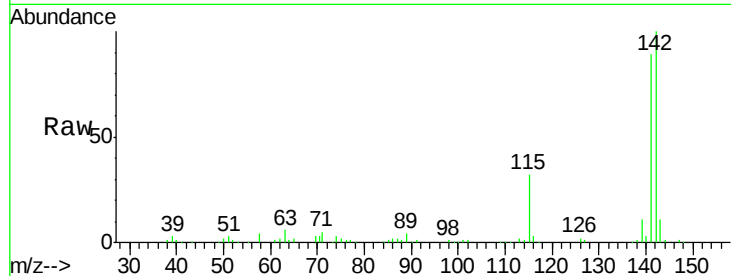




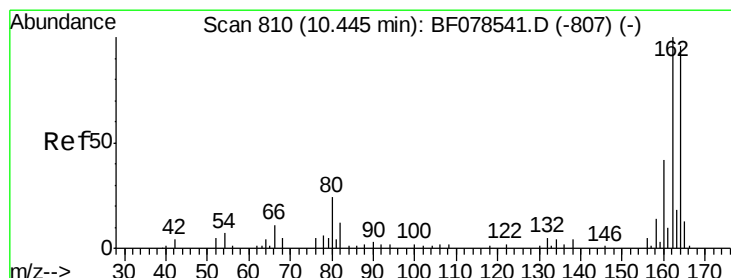
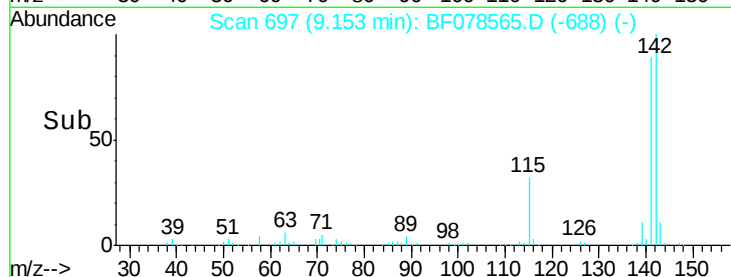
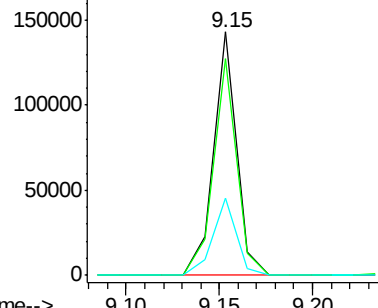
#37  
 2-Methylnaphthalene  
 Concen: 28.68 ng  
 RT: 9.15 min Scan# 697  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-01-014-AMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.0  | 70.3  | 105.5 |
| 115     | 32.0  | 24.6  | 37.0  |

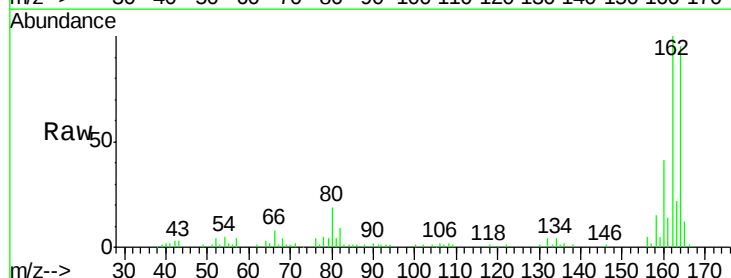


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

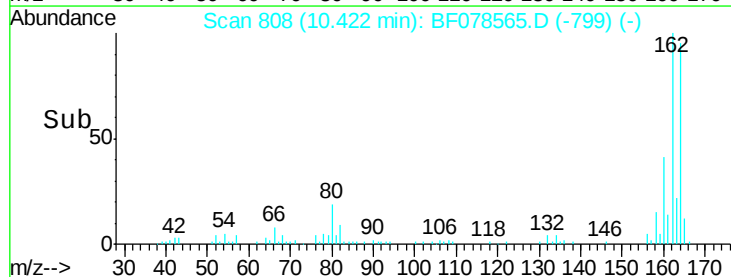
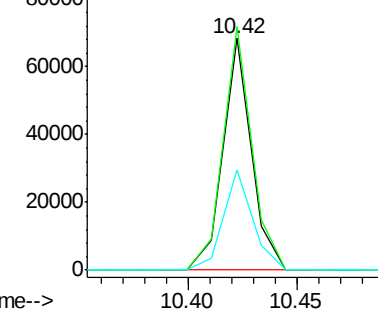


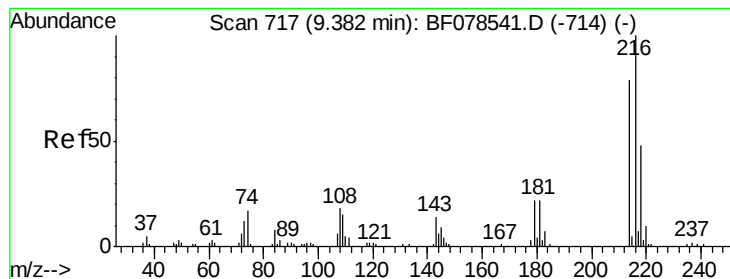
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.42 min Scan# 808  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.0 | 82.2  | 123.2 |
| 160     | 43.2  | 34.7  | 52.1  |



Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E





#39

1,2,4,5-Tetrachlorobenzene

Concen: 28.44 ng

RT: 9.36 min Scan# 715

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

Instrument :

BNA\_F

ClientSampleId :

FK-GF-01-014-AMS

Tgt Ion:216 Resp: 54329

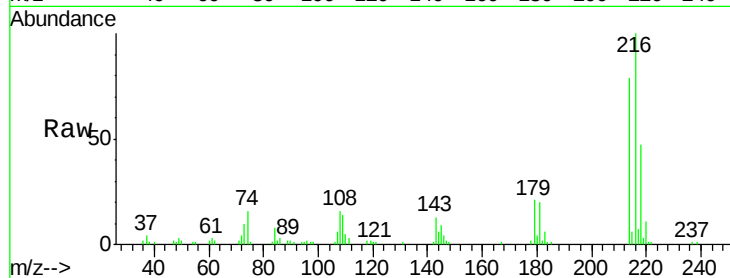
Ion Ratio Lower Upper

216 100

214 78.8 62.0 93.0

179 21.5 17.3 25.9

108 18.8 14.6 21.8

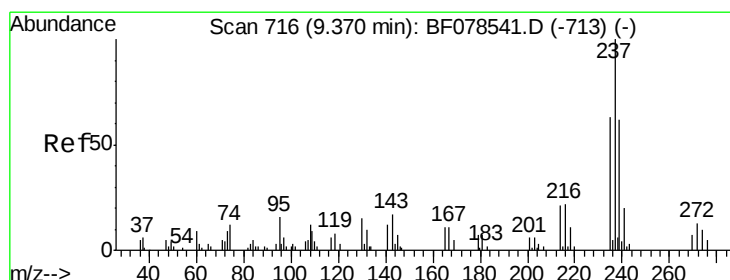
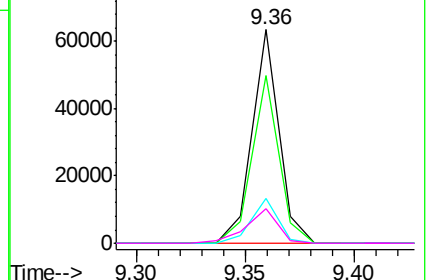
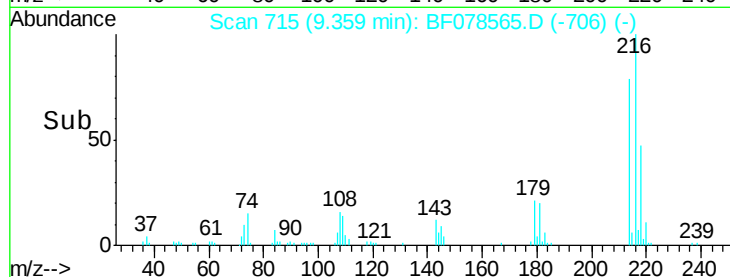


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40

Hexachlorocyclopentadiene

Concen: 32.80 ng

RT: 9.35 min Scan# 714

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

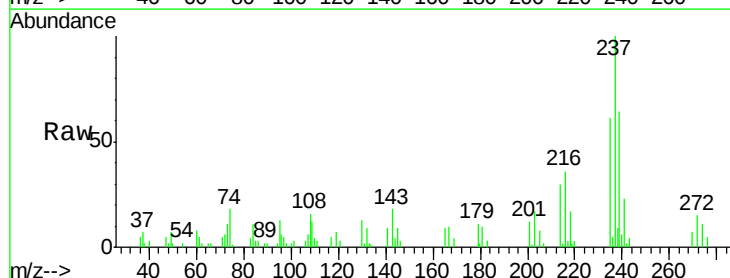
Tgt Ion:237 Resp: 23361

Ion Ratio Lower Upper

237 100

235 61.2 44.1 84.1

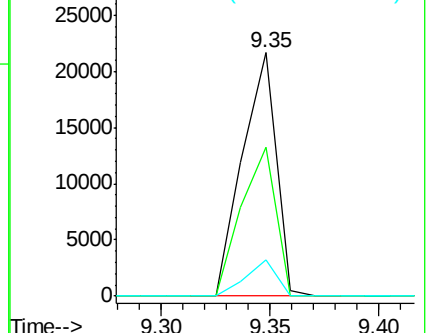
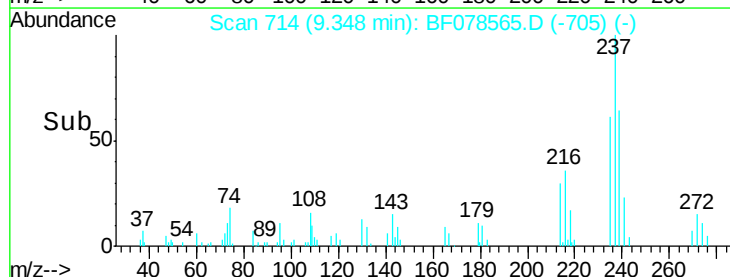
272 15.0 0.0 34.4

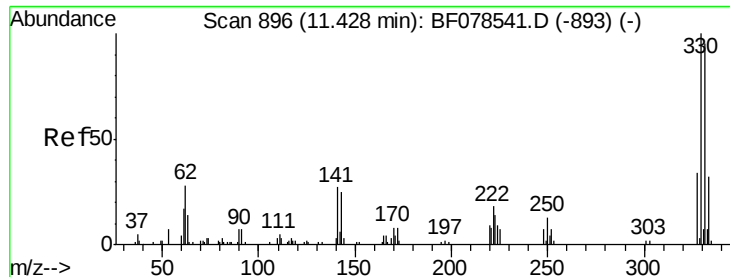


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

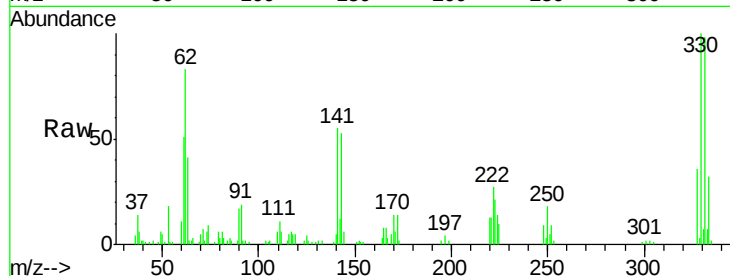




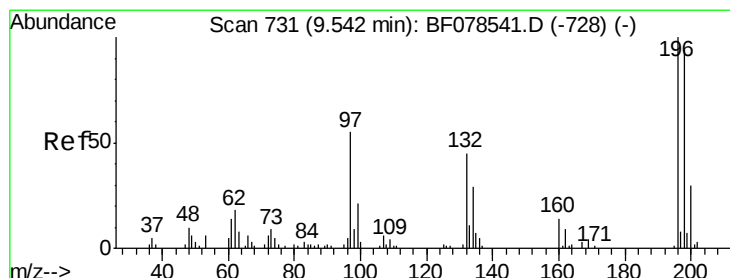
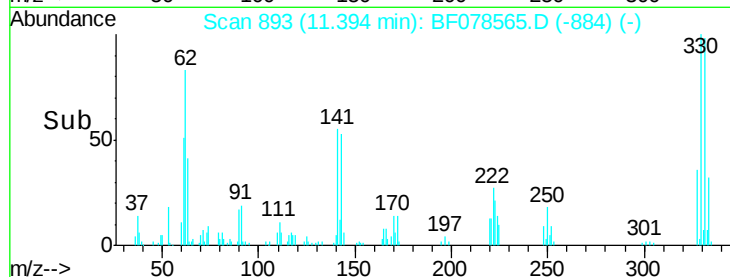
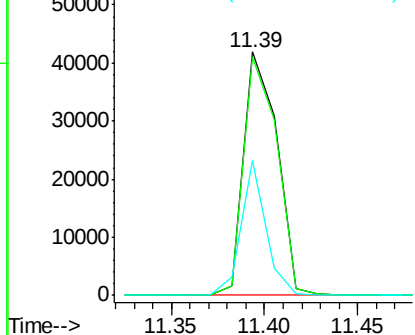
#41  
 2,4,6-Tribromophenol  
 Concen: 102.11 ng  
 RT: 11.39 min Scan# 893  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-01-014-AMS

Tgt Ion:330 Resp: 52210  
 Ion Ratio Lower Upper  
 330 100  
 332 97.9 78.6 117.8  
 141 41.0 31.2 46.8

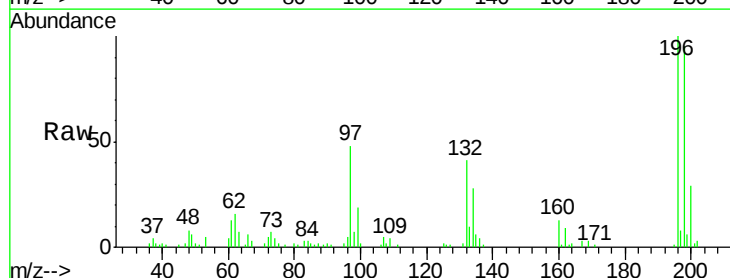


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

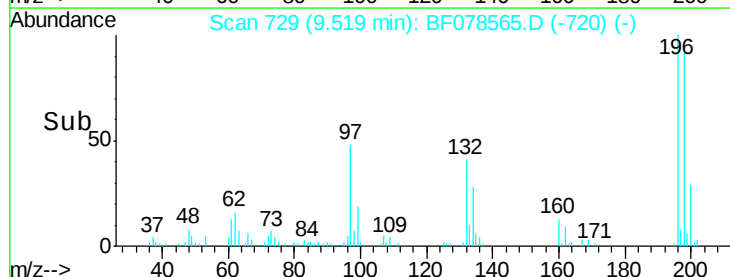
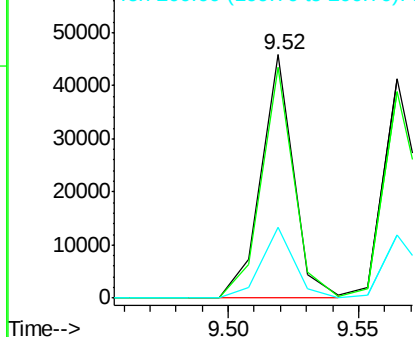


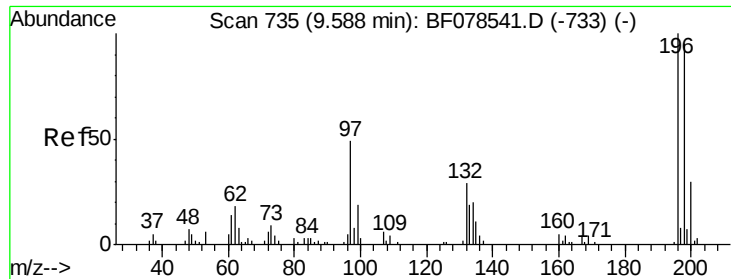
#42  
 2,4,6-Trichlorophenol  
 Concen: 33.12 ng  
 RT: 9.52 min Scan# 729  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

Tgt Ion:196 Resp: 39898  
 Ion Ratio Lower Upper  
 196 100  
 198 94.6 75.4 113.2  
 200 29.3 24.0 36.0



Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 200.00 (199.70 to 200.70): E

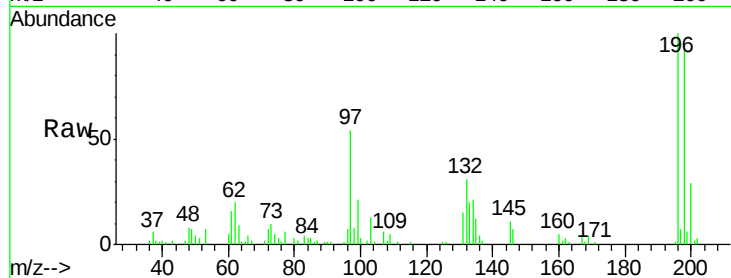




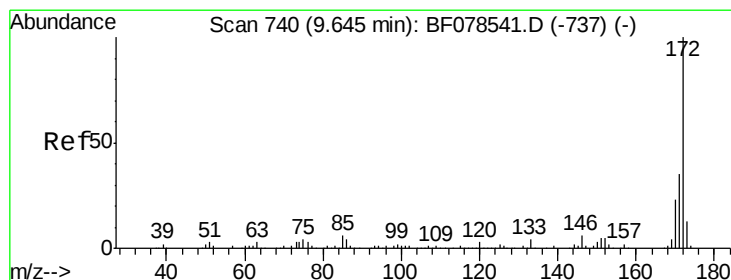
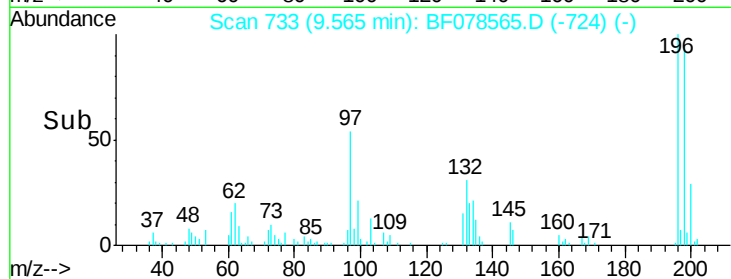
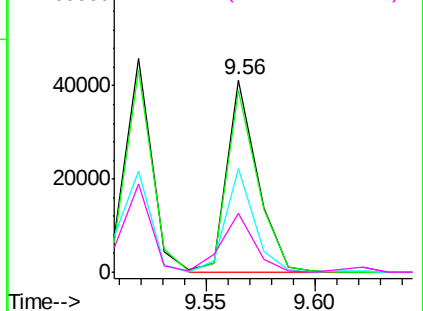
#43  
 2,4,5-Trichlorophenol  
 Concen: 31.99 ng  
 RT: 9.56 min Scan# 733  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-01-014-AMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 94.2  | 76.6  | 115.0 |
| 97      | 54.1  | 50.6  | 75.8  |
| 132     | 30.5  | 27.7  | 41.5  |

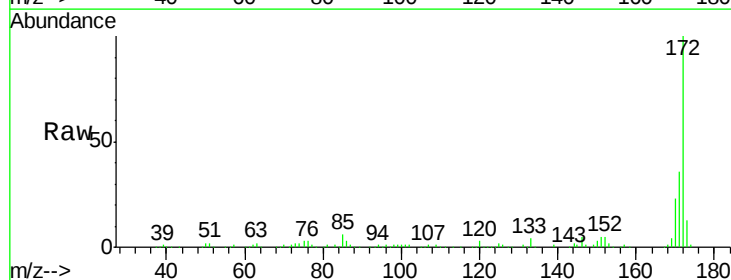


Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 97.00 (96.70 to 97.70): BF0  
 Ion 132.00 (131.70 to 132.70): E

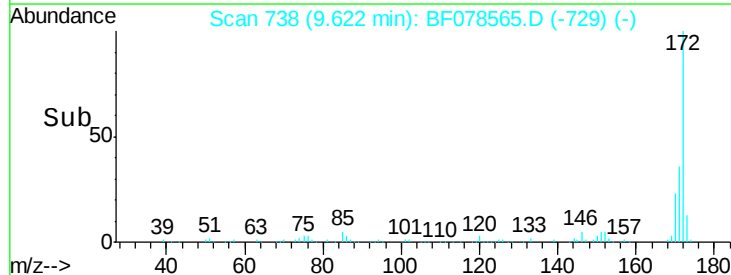
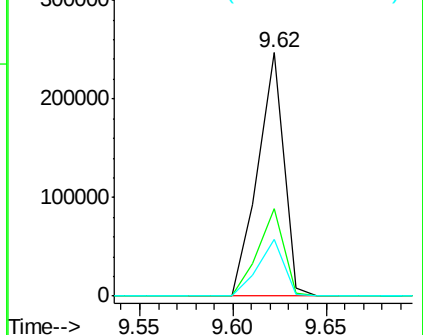


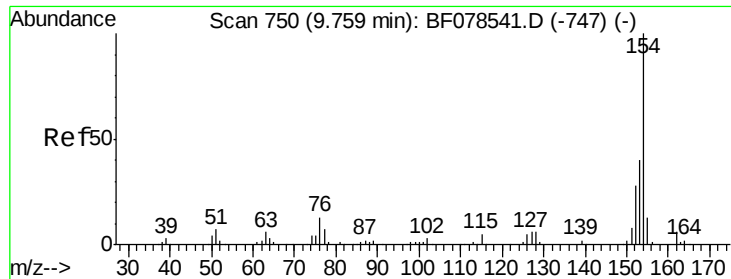
#44  
 2-Fluorobiphenyl  
 Concen: 55.51 ng  
 RT: 9.62 min Scan# 738  
 Delta R.T. 0.00 min  
 Lab File: BF078565.D  
 Acq: 16 Apr 2015 15:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 28.6  | 42.8  |
| 170     | 23.3  | 18.5  | 27.7  |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 28.81 ng

RT: 9.74 min Scan# 748

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

Instrument :

BNA\_F

ClientSampleId :

FK-GF-01-014-AMS

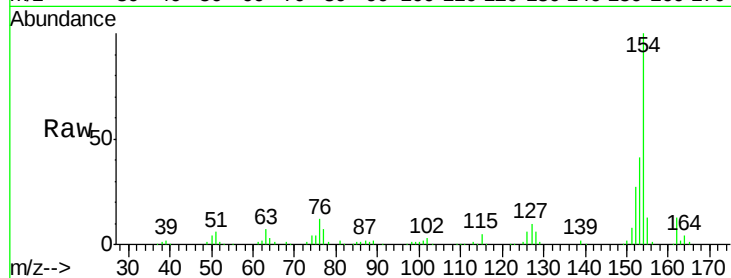
Tgt Ion:154 Resp: 145273

Ion Ratio Lower Upper

154 100

153 41.4 20.0 60.0

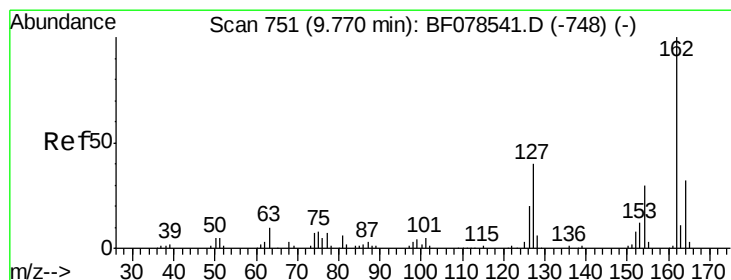
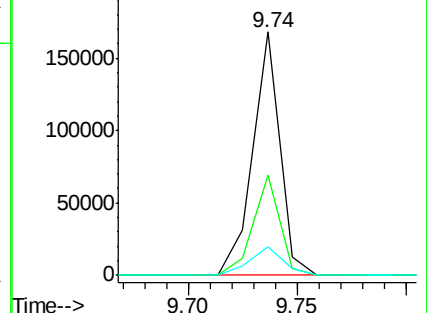
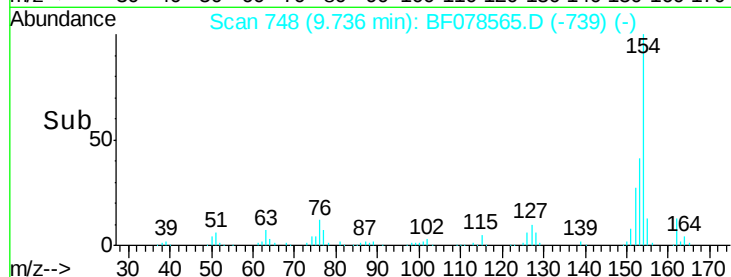
76 11.8 0.0 30.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#46

2-Chloronaphthalene

Concen: 28.68 ng

RT: 9.75 min Scan# 749

Delta R.T. 0.00 min

Lab File: BF078565.D

Acq: 16 Apr 2015 15:01

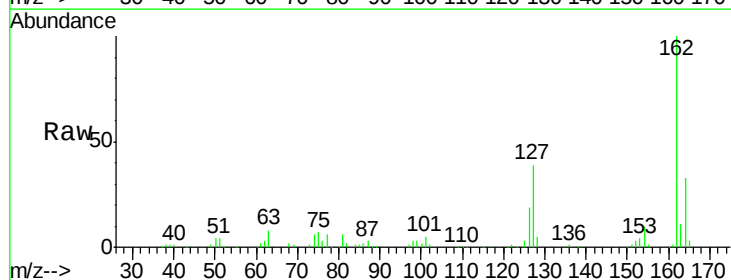
Tgt Ion:162 Resp: 113800

Ion Ratio Lower Upper

162 100

127 39.4 32.6 49.0

164 33.2 26.0 39.0



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E

