

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF111516\  
 Data File : BF091184.D  
 Acq On : 15 Nov 2016 17:43  
 Operator : UM/SJ  
 Sample : H5636-11MSD  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

Quant Time: Nov 16 00:22:05 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 08 12:59:29 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.64  | 152  | 161829   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 7.93  | 136  | 645329   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.68  | 164  | 384523   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.15 | 188  | 632609   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 13.79 | 240  | 453388   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.15 | 264  | 391579   | 20.00 | ng    | -0.03    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.22  | 112 | 675264  | 68.91  | ng | -0.02 |
| 7) Phenol-d6                | 6.29  | 99  | 562167  | 42.27  | ng | -0.02 |
| 23) Nitrobenzene-d5         | 7.21  | 82  | 1187388 | 100.37 | ng | -0.03 |
| 41) 2,4,6-Tribromophenol    | 10.48 | 330 | 588024  | 169.15 | ng | -0.01 |
| 44) 2-Fluorobiphenyl        | 9.01  | 172 | 2105236 | 94.26  | ng | -0.02 |
| 78) Terphenyl-d14           | 12.74 | 244 | 2039221 | 112.24 | ng | -0.02 |

|                                |      |     |         |       |    |        |
|--------------------------------|------|-----|---------|-------|----|--------|
| Target Compounds               |      |     |         |       |    | Qvalue |
| 2) 1,4-Dioxane                 | 2.13 | 88  | 84329   | 15.04 | ng | # 90   |
| 3) Pyridine                    | 2.80 | 79  | 208453  | 15.90 | ng | 100    |
| 4) n-Nitrosodimethylamine      | 2.74 | 42  | 97571   | 18.81 | ng | 93     |
| 6) Aniline                     | 6.30 | 93  | 299077  | 19.06 | ng | # 80   |
| 8) 2-Chlorophenol              | 6.42 | 128 | 484219  | 41.43 | ng | 97     |
| 9) Benzaldehyde                | 6.19 | 77  | 54456   | 7.38  | ng | 94     |
| 10) Phenol                     | 6.30 | 94  | 243600  | 16.55 | ng | 88     |
| 11) bis(2-Chloroethyl)ether    | 6.37 | 93  | 580898  | 46.83 | ng | 98     |
| 12) 1,3-Dichlorobenzene        | 6.81 | 146 | 580554  | 49.11 | ng | 98     |
| 13) 1,4-Dichlorobenzene        | 6.81 | 146 | 588696  | 46.41 | ng | 97     |
| 14) 1,2-Dichlorobenzene        | 6.81 | 146 | 595166  | 51.13 | ng | 98     |
| 15) Benzyl Alcohol             | 6.80 | 79  | 290174  | 30.93 | ng | 92     |
| 16) 2,2'-oxybis(1-Chloropropan | 6.93 | 45  | 786989  | 44.31 | ng | 88     |
| 17) 2-Methylphenol             | 6.92 | 107 | 317604  | 34.32 | ng | # 88   |
| 18) Hexachloroethane           | 7.14 | 117 | 270199  | 55.05 | ng | # 85   |
| 19) n-Nitroso-di-n-propylamine | 7.07 | 70  | 507836  | 55.10 | ng | 92     |
| 20) 3+4-Methylphenols          | 7.08 | 107 | 368194  | 33.14 | ng | 97     |
| 22) Acetophenone               | 7.06 | 105 | 862183  | 58.03 | ng | # 94   |
| 24) Nitrobenzene               | 7.23 | 77  | 685020  | 52.43 | ng | 100    |
| 25) Isophorone                 | 7.47 | 82  | 1075845 | 47.20 | ng | 98     |
| 26) 2-Nitrophenol              | 7.55 | 139 | 302389  | 54.69 | ng | # 67   |
| 27) 2,4-Dimethylphenol         | 7.60 | 122 | 403044  | 44.08 | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 7.69 | 93  | 640463  | 51.43 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 7.80 | 162 | 405780  | 50.85 | ng | 91     |
| 30) 1,2,4-Trichlorobenzene     | 7.87 | 180 | 495292  | 55.20 | ng | 98     |
| 31) Naphthalene                | 7.95 | 128 | 1981521 | 64.21 | ng | 99     |
| 32) Benzoic acid               | 7.72 | 122 | 67670   | 13.56 | ng | 96     |
| 33) 4-Chloroaniline            | 8.01 | 127 | 177751  | 13.85 | ng | 97     |
| 34) Hexachlorobutadiene        | 8.06 | 225 | 265052  | 54.73 | ng | 98     |
| 35) Caprolactam                | 8.46 | 113 | 10182   | 4.06  | ng | 95     |
| 36) 4-Chloro-3-methylphenol    | 8.50 | 107 | 411192  | 42.56 | ng | 89     |
| 37) 2-Methylnaphthalene        | 8.64 | 142 | 1057479 | 53.30 | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.81 | 216 | 503105  | 51.32 | ng | 98     |
| 40) Hexachlorocyclopentadiene  | 8.80 | 237 | 344544  | 89.70 | ng | 99     |

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 ALS Vial : 19 Sample Multiplier: 1

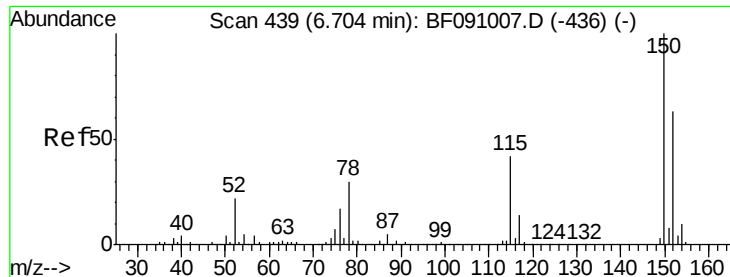
Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

Quant Time: Nov 16 00:22:05 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 08 12:59:29 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 8.93  | 196  | 317150   | 50.11  | ng    | 98       |
| 43) 2,4,5-Trichlorophenol      | 8.98  | 196  | 327339   | 49.26  | ng    | 97       |
| 45) 1,1'-Biphenyl              | 9.10  | 154  | 1218404  | 43.39  | ng    | 98       |
| 46) 2-Chloronaphthalene        | 9.13  | 162  | 998753   | 46.85  | ng    | 99       |
| 47) 2-Nitroaniline             | 9.24  | 65   | 327064   | 41.34  | ng    | # 67     |
| 48) Acenaphthylene             | 9.54  | 152  | 1391504  | 41.89  | ng    | 97       |
| 49) Dimethylphthalate          | 9.42  | 163  | 1345085  | 53.35  | ng    | 98       |
| 50) 2,6-Dinitrotoluene         | 9.48  | 165  | 291010   | 53.85  | ng    | # 65     |
| 51) Acenaphthene               | 9.71  | 154  | 1055211  | 50.59  | ng    | 99       |
| 52) 3-Nitroaniline             | 9.65  | 138  | 82234    | 12.83  | ng    | # 83     |
| 53) 2,4-Dinitrophenol          | 9.77  | 184  | 278825   | 93.58  | ng    | 96       |
| 54) Dibenzofuran               | 9.88  | 168  | 1497286  | 53.33  | ng    | 99       |
| 55) 4-Nitrophenol              | 9.88  | 139  | 753319   | 169.61 | ng    | # 5      |
| 56) 2,4-Dinitrotoluene         | 9.89  | 165  | 419710   | 61.05  | ng    | # 74     |
| 57) Fluorene                   | 10.22 | 166  | 1178397  | 51.35  | ng    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.01 | 232  | 297805   | 57.21  | ng    | # 99     |
| 59) Diethylphthalate           | 10.11 | 149  | 1303407  | 50.42  | ng    | 99       |
| 60) 4-Chlorophenyl-phenylether | 10.22 | 204  | 559531   | 53.57  | ng    | 97       |
| 61) 4-Nitroaniline             | 10.27 | 138  | 289304   | 44.63  | ng    | 92       |
| 62) Azobenzene                 | 10.37 | 77   | 1464607  | 48.13  | ng    | 88       |
| 64) 4,6-Dinitro-2-methylphenol | 10.29 | 198  | 191539   | 49.45  | ng    | # 39     |
| 65) n-Nitrosodiphenylamine     | 10.34 | 169  | 1138216  | 56.61  | ng    | 100      |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248  | 380412   | 57.81  | ng    | # 85     |
| 67) Hexachlorobenzene          | 10.77 | 284  | 452255   | 62.32  | ng    | # 90     |
| 68) Atrazine                   | 10.89 | 200  | 350979   | 60.50  | ng    | 100      |
| 69) Pentachlorophenol          | 10.98 | 266  | 402282   | 125.15 | ng    | 99       |
| 70) Phenanthrene               | 11.18 | 178  | 2137577  | 63.56  | ng    | 99       |
| 71) Anthracene                 | 11.23 | 178  | 1753409  | 49.04  | ng    | 98       |
| 72) Carbazole                  | 11.39 | 167  | 1557431  | 48.34  | ng    | 99       |
| 73) Di-n-butylphthalate        | 11.73 | 149  | 2211457  | 54.57  | ng    | 100      |
| 74) Fluoranthene               | 12.36 | 202  | 1755058  | 50.32  | ng    | 93       |
| 76) Benzidine                  | 12.49 | 184  | 432143   | 42.66  | ng    | 98       |
| 77) Pyrene                     | 12.59 | 202  | 1868292  | 62.92  | ng    | 99       |
| 79) Butylbenzylphthalate       | 13.22 | 149  | 913047   | 64.29  | ng    | # 75     |
| 80) Benzo(a)anthracene         | 13.77 | 228  | 1490227  | 57.89  | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 13.75 | 252  | 297834   | 32.93  | ng    | 99       |
| 82) Chrysene                   | 13.81 | 228  | 1599302  | 63.01  | ng    | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 13.78 | 149  | 1054159  | 54.85  | ng    | # 94     |
| 84) Di-n-octyl phthalate       | 14.39 | 149  | 1816075  | 57.47  | ng    | # 93     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.43 | 276  | 1304694  | 61.95  | ng    | 94       |
| 87) Benzo(b)fluoranthene       | 14.81 | 252  | 2822978  | 106.29 | ng    | # 97     |
| 88) Benzo(k)fluoranthene       | 14.81 | 252  | 2824383  | 121.23 | ng    | # 94     |
| 89) Benzo(a)pyrene             | 15.09 | 252  | 1223016  | 52.90  | ng    | # 97     |
| 90) Dibenzo(a,h)anthracene     | 16.43 | 278  | 1105615  | 55.32  | ng    | 99       |
| 91) Benzo(g,h,i)perylene       | 16.81 | 276  | 1039172  | 57.49  | ng    | # 91     |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.64 min Scan# 433

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

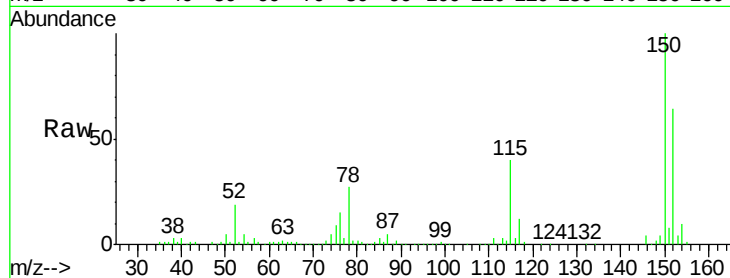
Tgt Ion:152 Resp: 161829

Ion Ratio Lower Upper

152 100

150 156.8 126.8 190.2

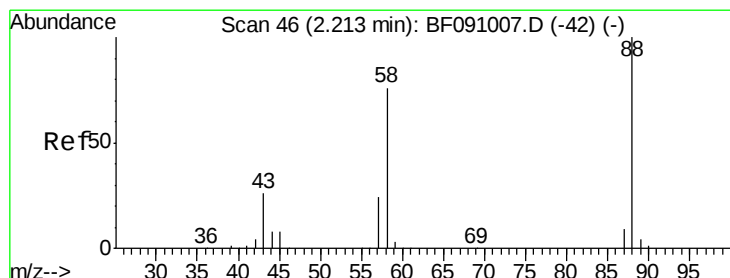
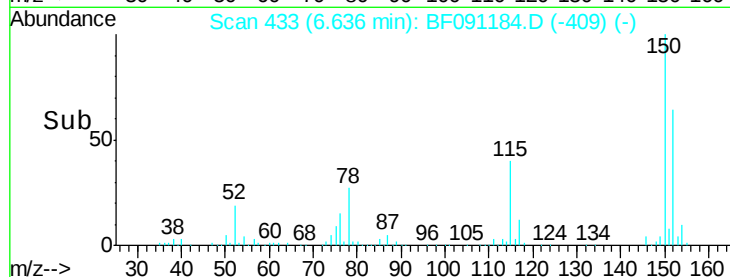
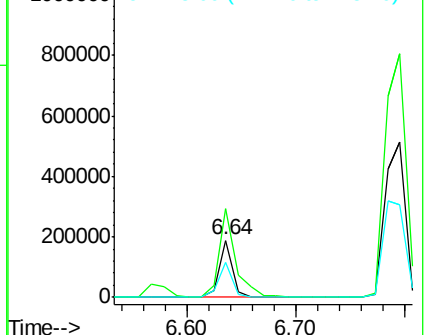
115 62.2 53.3 79.9



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: 15.04 ng

RT: 2.13 min Scan# 39

Delta R.T. -0.01 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

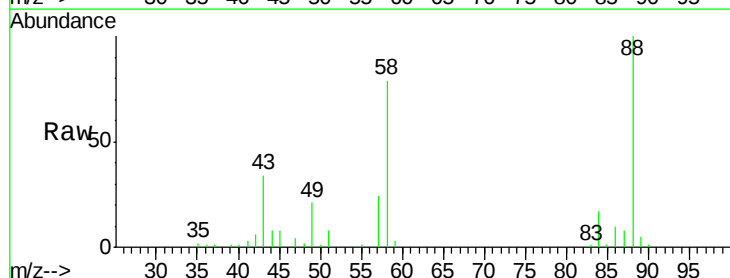
Tgt Ion: 88 Resp: 84329

Ion Ratio Lower Upper

88 100

58 77.7 63.8 95.6

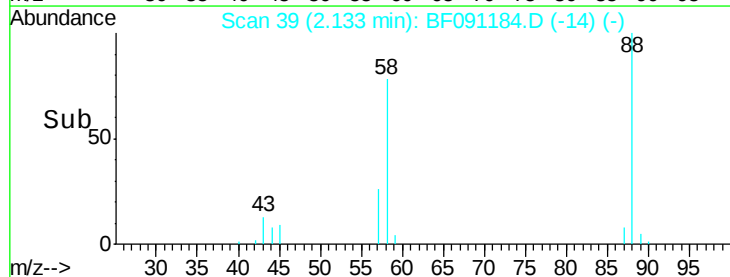
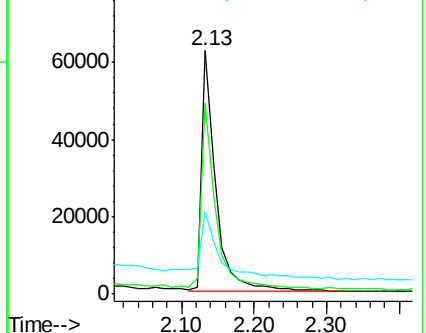
43 44.2 22.6 33.8#

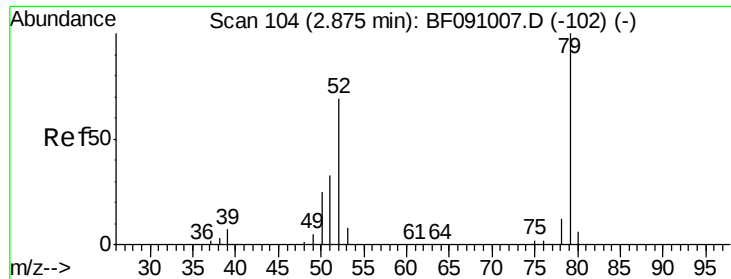


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0

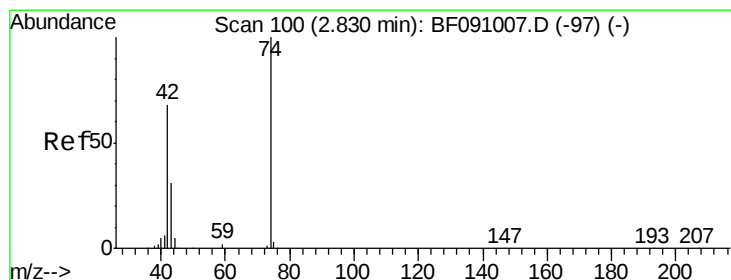
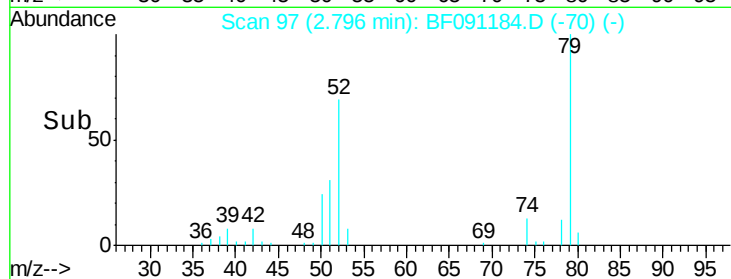
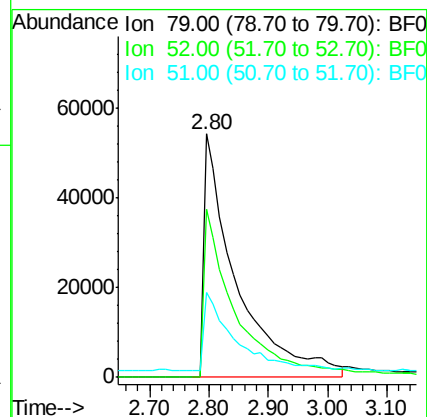
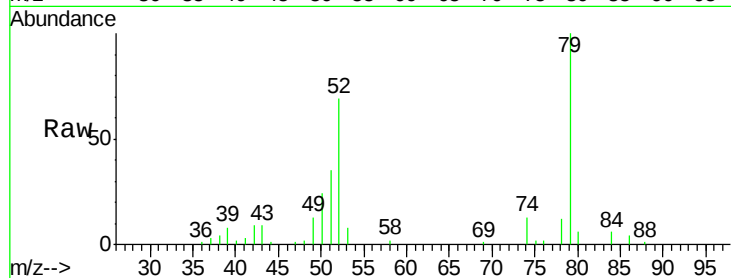




#3  
 Pyridine  
 Concen: 15.90 ng  
 RT: 2.80 min Scan# 97  
 Delta R.T. 0.01 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

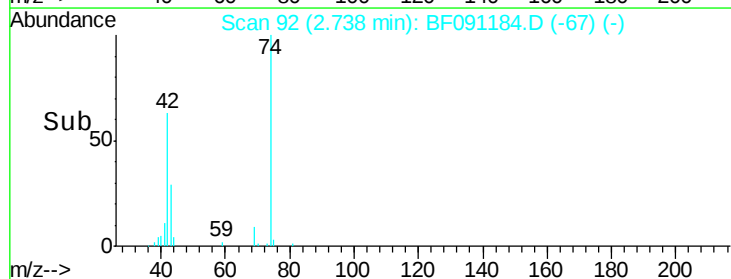
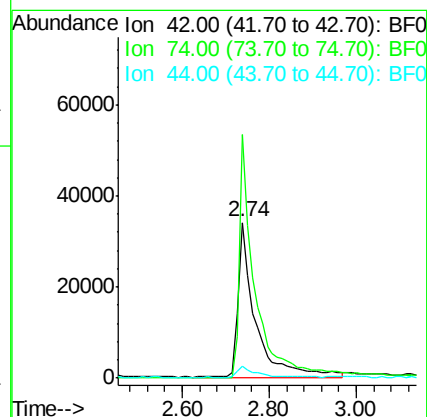
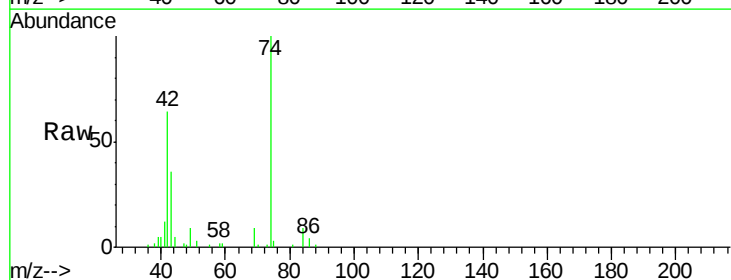
Instrument :  
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 C19023041MSD

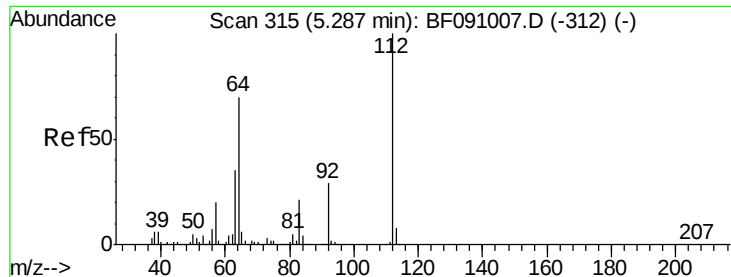
Tgt Ion: 79 Resp: 208453  
 Ion Ratio Lower Upper  
 79 100  
 52 69.1 55.4 83.0  
 51 35.0 27.4 41.0



#4  
 n-Nitrosodimethylamine  
 Concen: 18.81 ng  
 RT: 2.74 min Scan# 92  
 Delta R.T. -0.01 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Tgt Ion: 42 Resp: 97571  
 Ion Ratio Lower Upper  
 42 100  
 74 156.3 117.3 175.9  
 44 7.6 5.8 8.8





#5

2-Fluorophenol

Concen: 68.91 ng

RT: 5.22 min Scan# 309

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

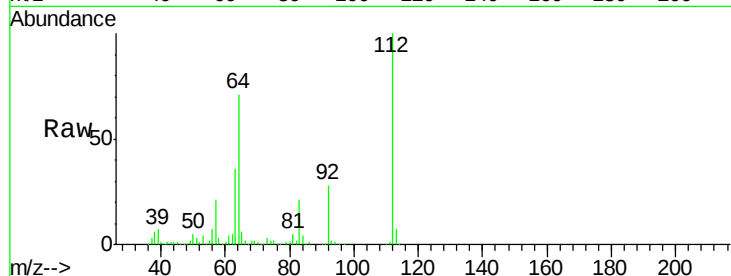
Tgt Ion: 112 Resp: 675264

Ion Ratio Lower Upper

112 100

64 70.6 55.8 83.6

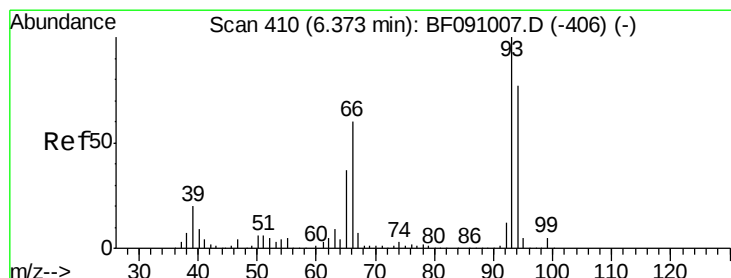
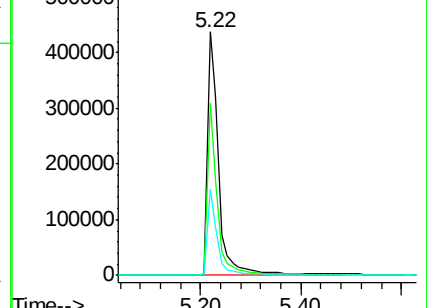
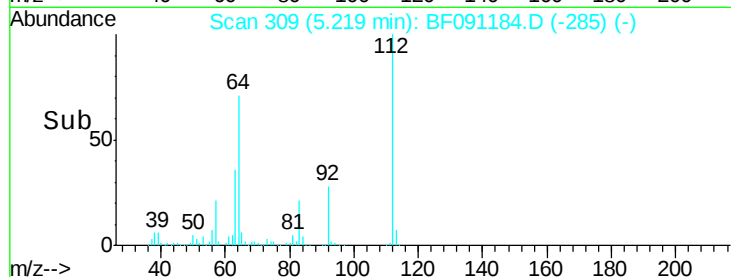
63 35.5 28.0 42.0



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#6

Aniline

Concen: 19.06 ng

RT: 6.30 min Scan# 404

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

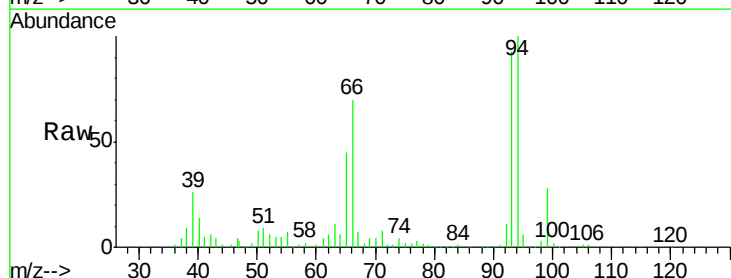
Tgt Ion: 93 Resp: 299077

Ion Ratio Lower Upper

93 100

66 75.3 48.2 72.2#

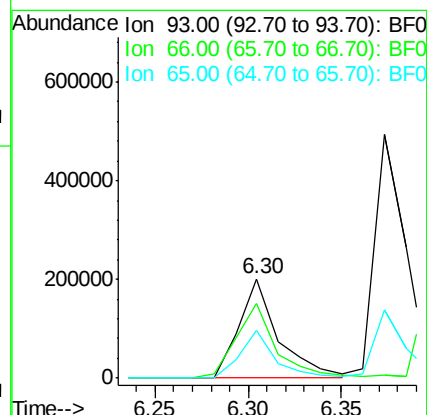
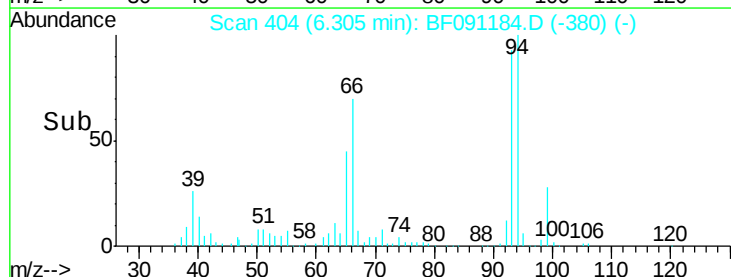
65 47.9 29.4 44.0#

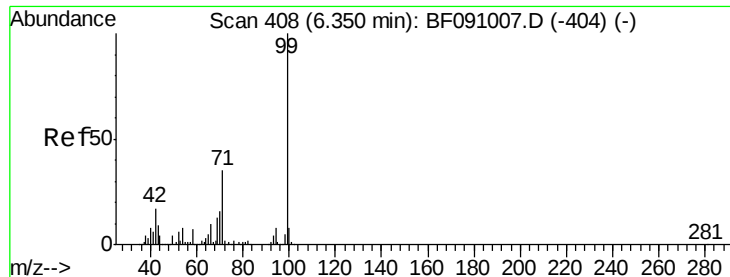


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 42.27 ng

RT: 6.29 min Scan# 403

Delta R.T. -0.02 min

Lab File: BF091184.D

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BNA\_F

ClientSampleId :

C19023041MSD

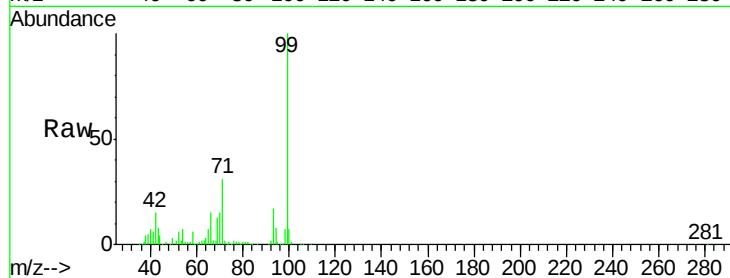
Tgt Ion: 99 Resp: 562167

Ion Ratio Lower Upper

99 100

42 14.6 13.9 20.9

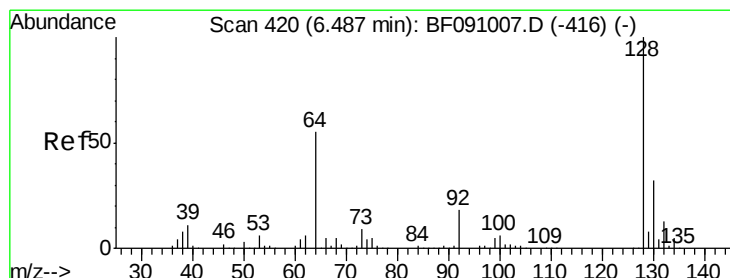
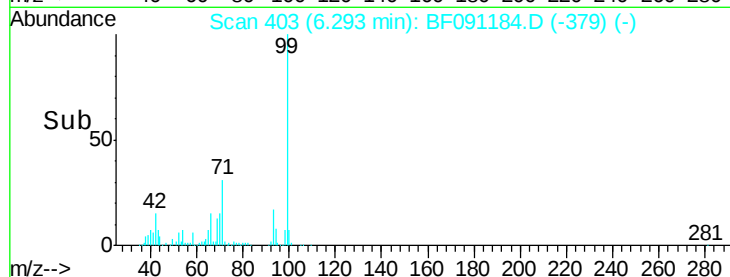
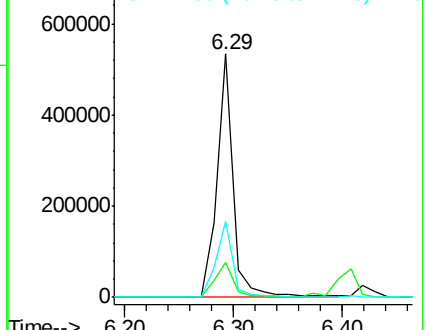
71 31.1 27.8 41.8



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: 41.43 ng

RT: 6.42 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

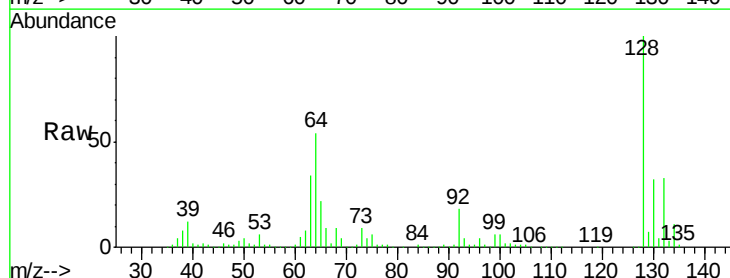
Tgt Ion: 128 Resp: 484219

Ion Ratio Lower Upper

128 100

130 32.3 12.0 52.0

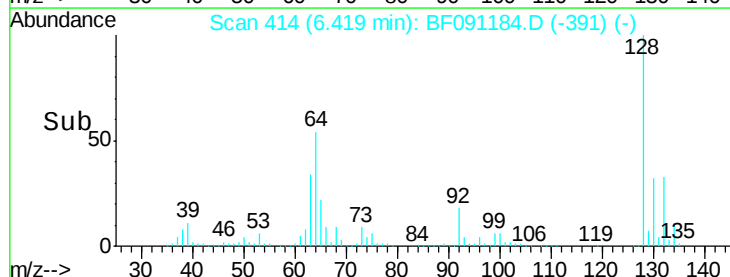
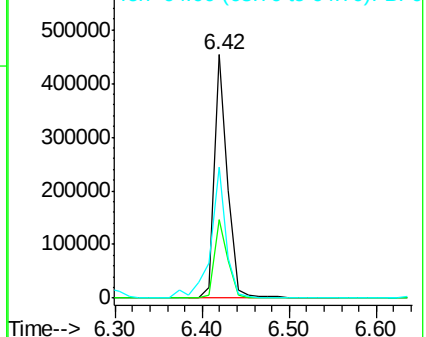
64 53.8 37.2 77.2

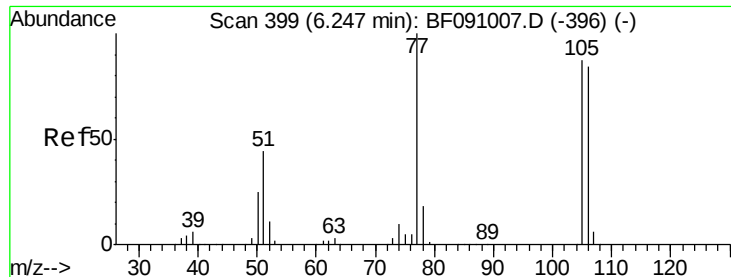


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 7.38 ng

RT: 6.19 min Scan# 394

Delta R.T. -0.01 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

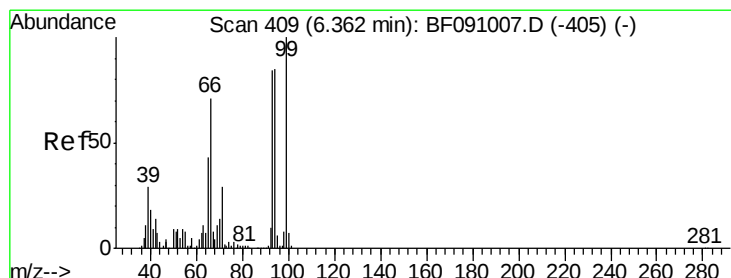
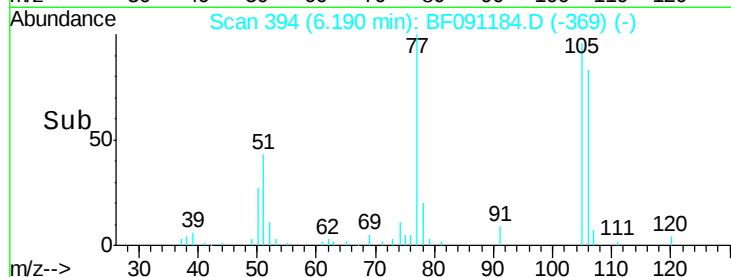
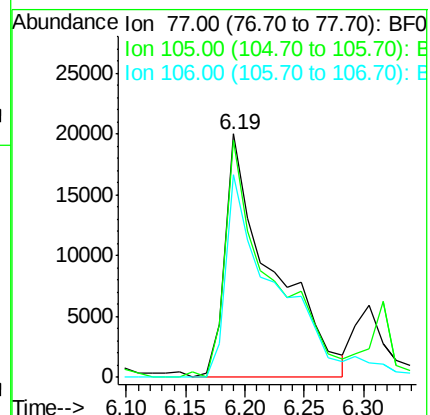
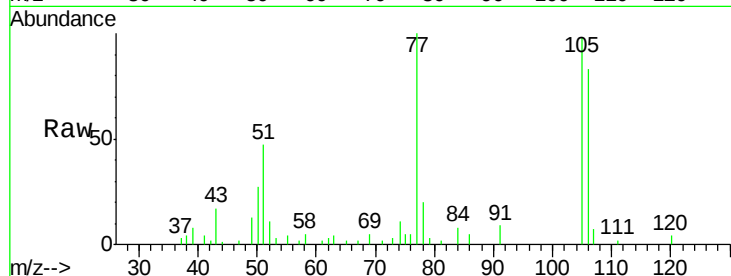
Tgt Ion: 77 Resp: 54456

Ion Ratio Lower Upper

77 100

105 97.6 66.8 106.8

106 83.3 64.0 104.0



#10

Phenol

Concen: 16.55 ng

RT: 6.30 min Scan# 404

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

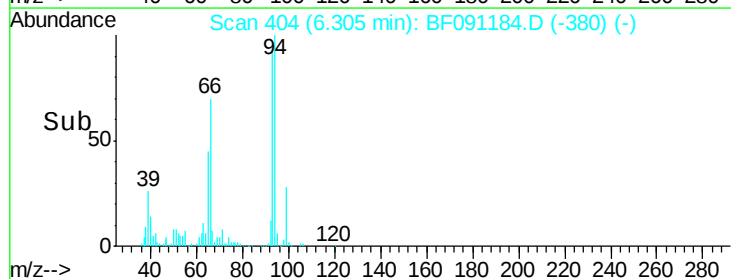
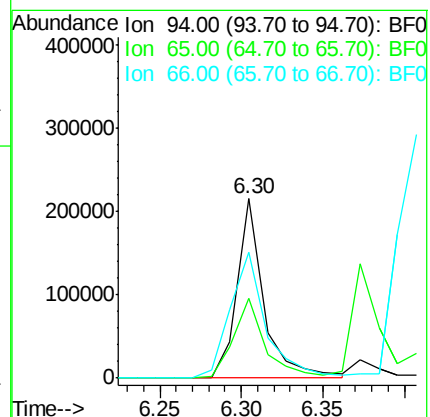
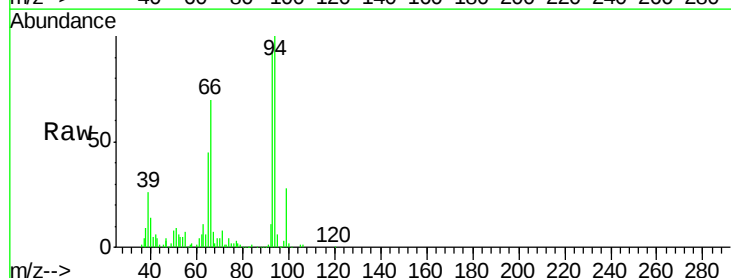
Tgt Ion: 94 Resp: 243600

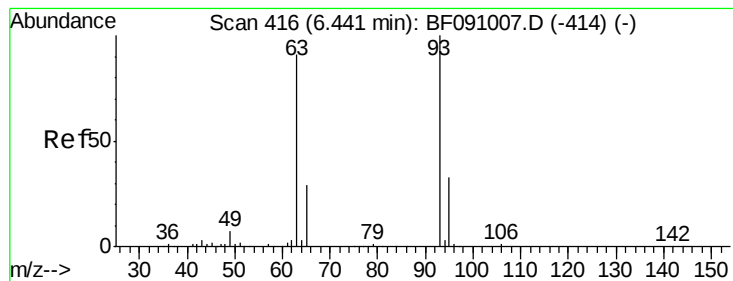
Ion Ratio Lower Upper

94 100

65 44.6 30.4 70.4

66 70.2 62.9 102.9





#11

bis(2-Chloroethyl)ether

Concen: 46.83 ng

RT: 6.37 min Scan# 410

Delta R.T. -0.03 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

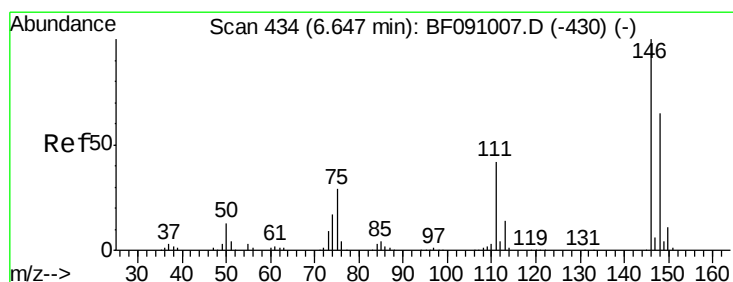
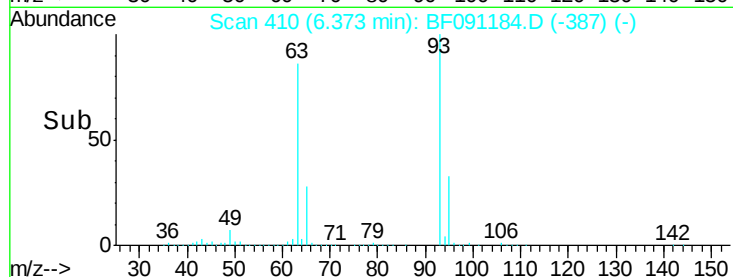
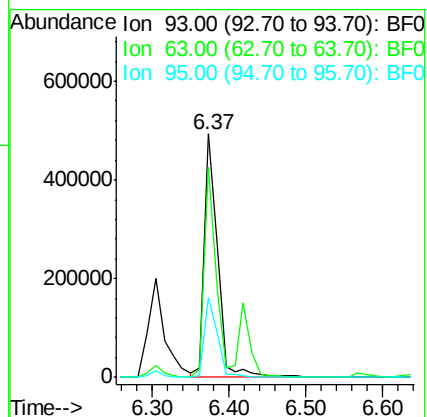
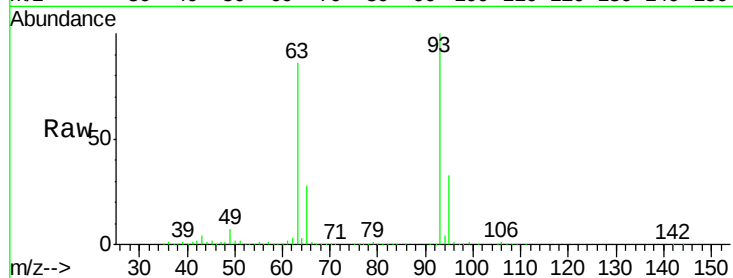
Tgt Ion: 93 Resp: 580898

Ion Ratio Lower Upper

93 100

63 86.4 68.9 108.9

95 32.8 12.3 52.3



#12

1,3-Dichlorobenzene

Concen: 49.11 ng

RT: 6.81 min Scan# 448

Delta R.T. 0.21 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

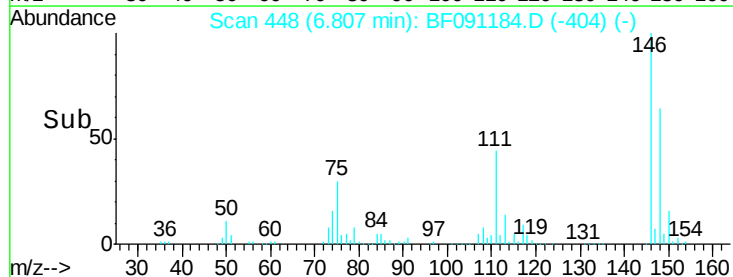
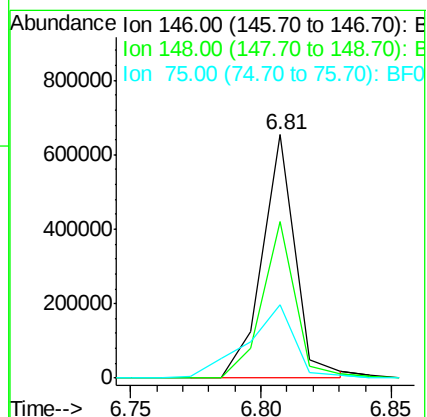
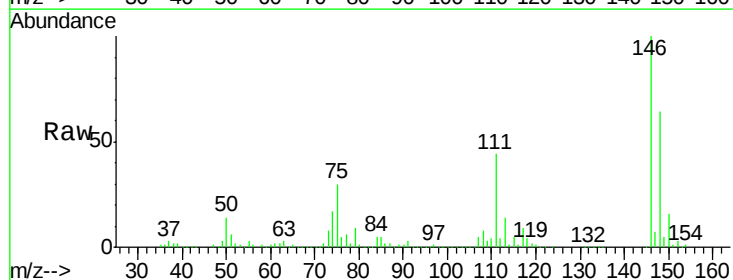
Tgt Ion: 146 Resp: 580554

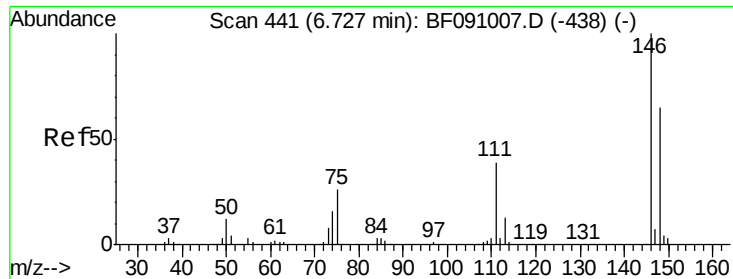
Ion Ratio Lower Upper

146 100

148 64.1 52.0 78.0

75 30.4 23.0 34.6

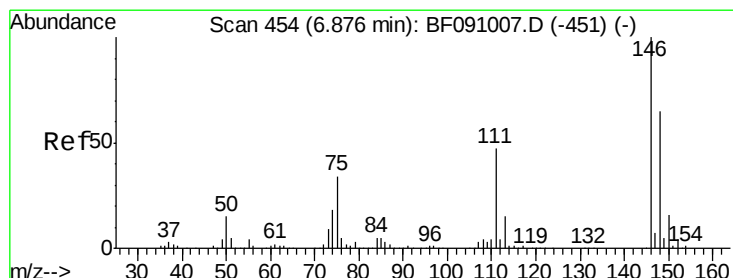
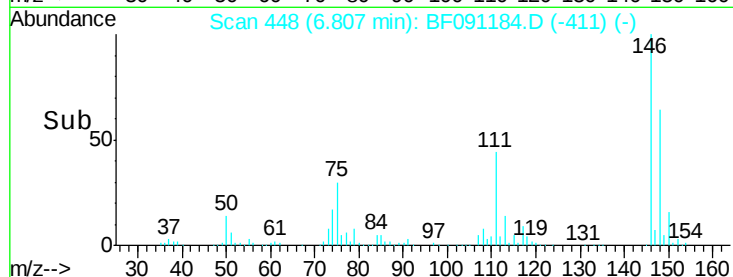
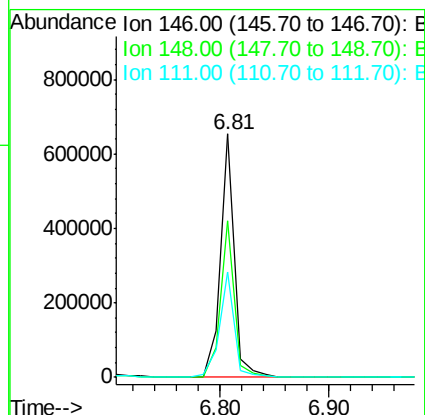
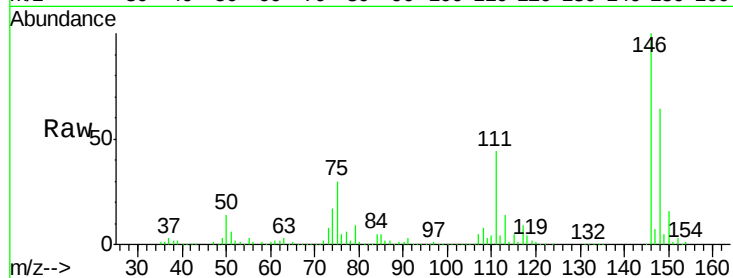




#13  
 1,4-Dichlorobenzene  
 Concen: 46.41 ng  
 RT: 6.81 min Scan# 448  
 Delta R.T. 0.13 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

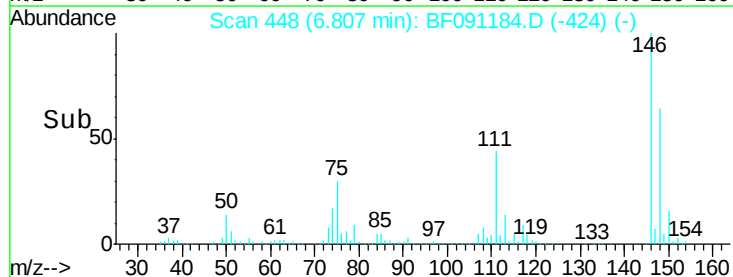
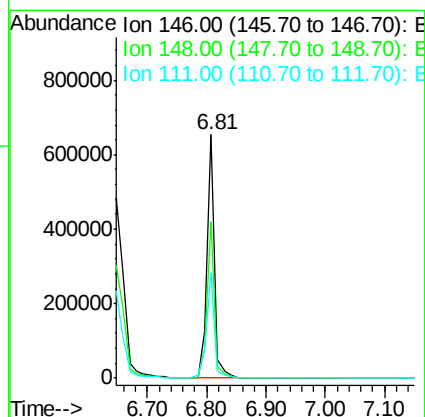
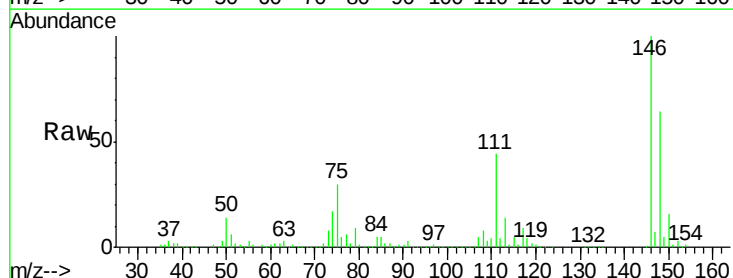
Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

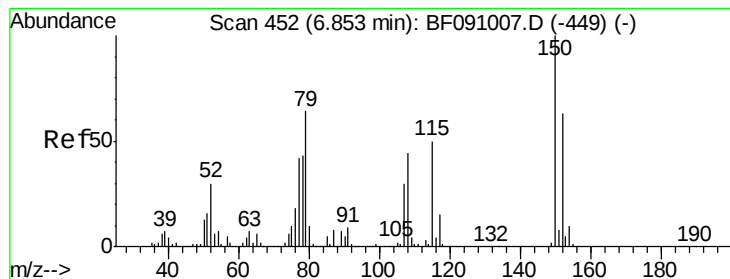
Tgt Ion:146 Resp: 588696  
 Ion Ratio Lower Upper  
 146 100  
 148 64.1 52.1 78.1  
 111 43.5 31.6 47.4



#14  
 1,2-Dichlorobenzene  
 Concen: 51.13 ng  
 RT: 6.81 min Scan# 448  
 Delta R.T. -0.02 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Tgt Ion:146 Resp: 595166  
 Ion Ratio Lower Upper  
 146 100  
 148 64.1 51.6 77.4  
 111 43.5 37.3 55.9





#15

Benzyl Alcohol

Concen: 30.93 ng

RT: 6.80 min Scan# 447

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

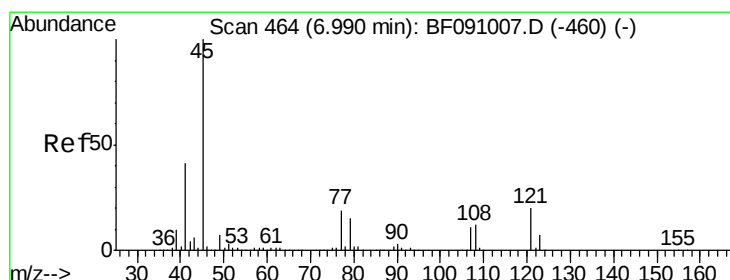
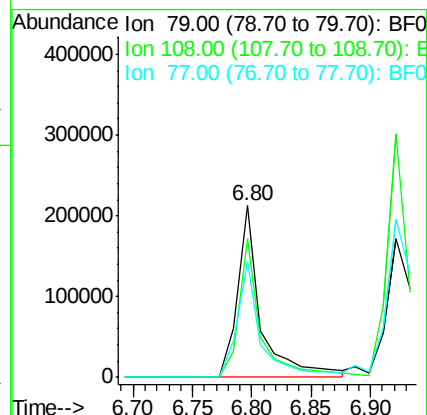
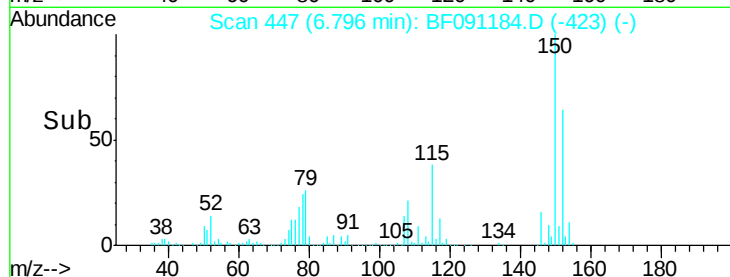
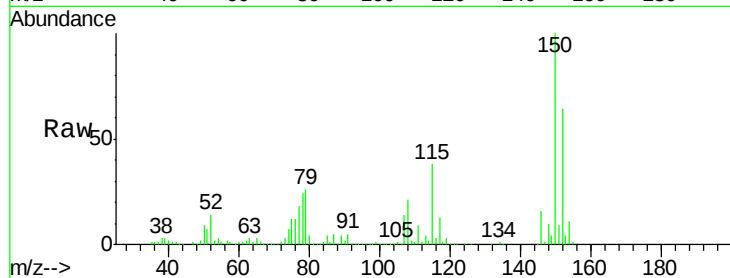
Tgt Ion: 79 Resp: 290174

Ion Ratio Lower Upper

79 100

108 80.5 55.7 83.5

77 67.0 52.6 79.0



#16

2,2'-oxybis(1-Chloropropane)

Concen: 44.31 ng

RT: 6.93 min Scan# 459

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

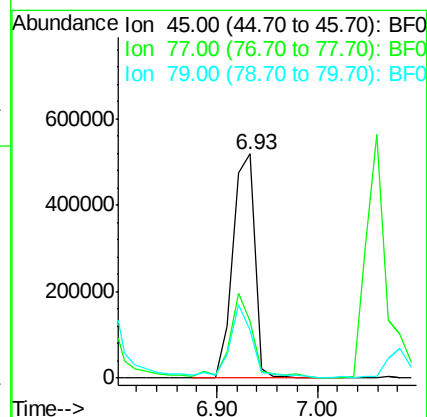
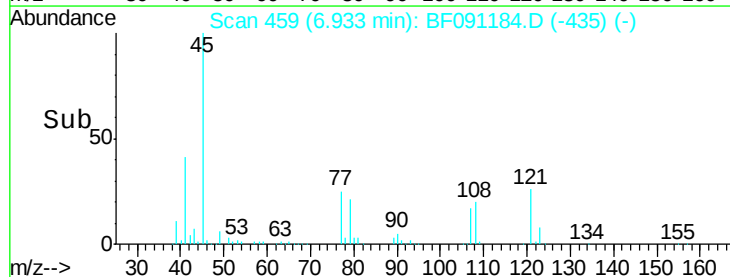
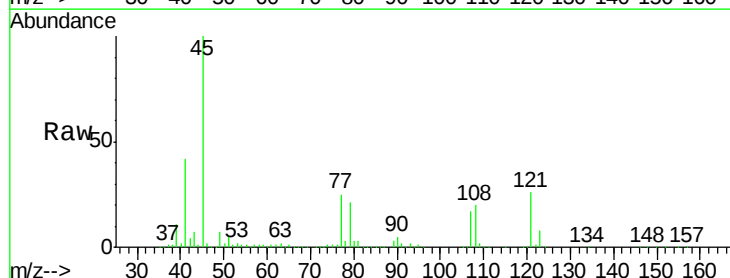
Tgt Ion: 45 Resp: 786989

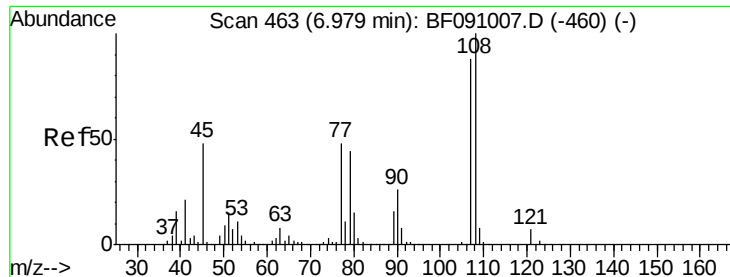
Ion Ratio Lower Upper

45 100

77 25.0 0.0 39.6

79 21.1 0.0 35.9

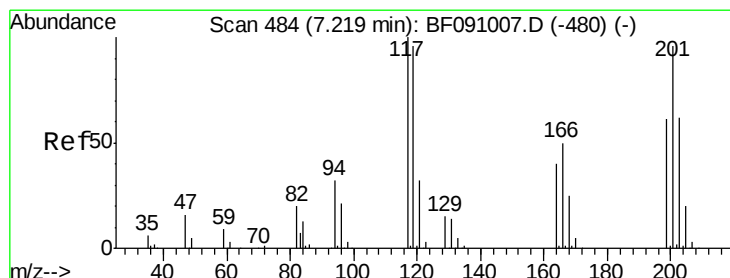
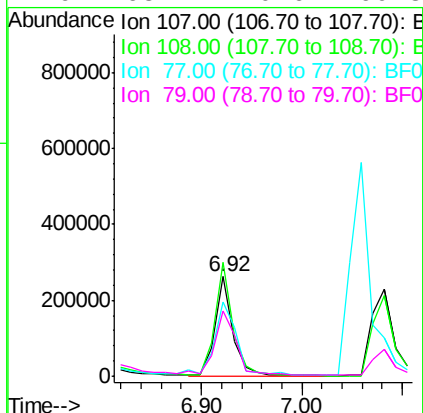
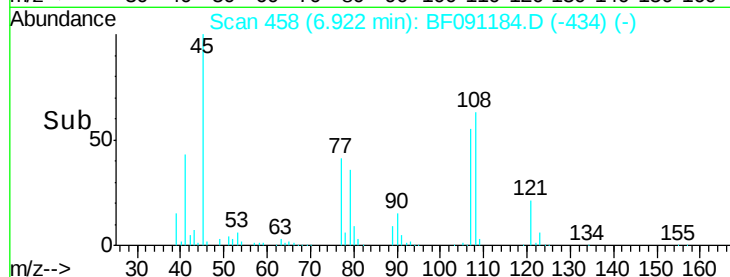
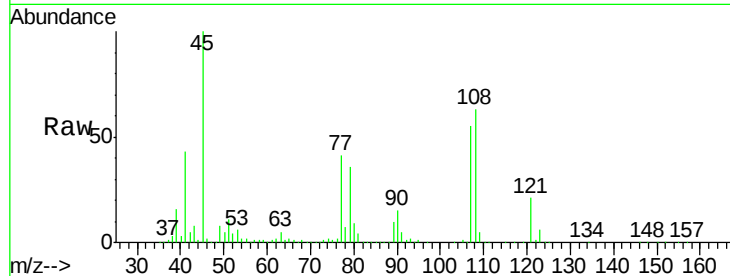




#17  
2-Methylphenol  
Concen: 34.32 ng  
RT: 6.92 min Scan# 458  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

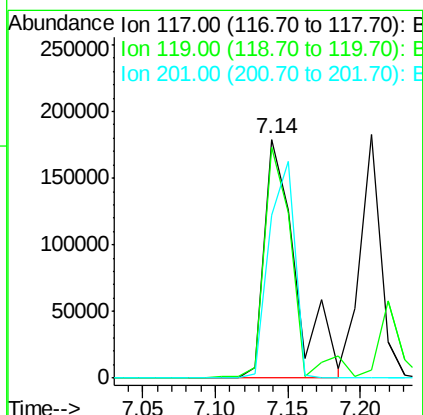
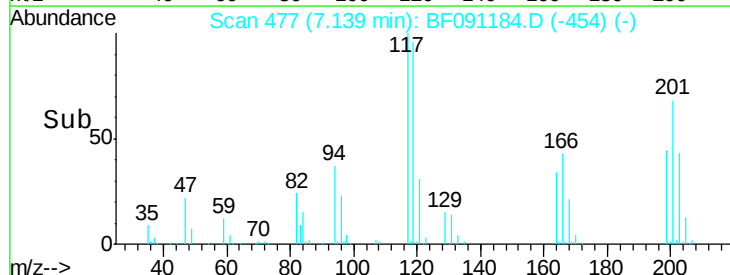
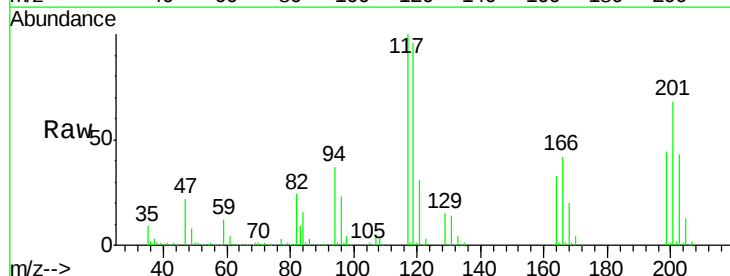
Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

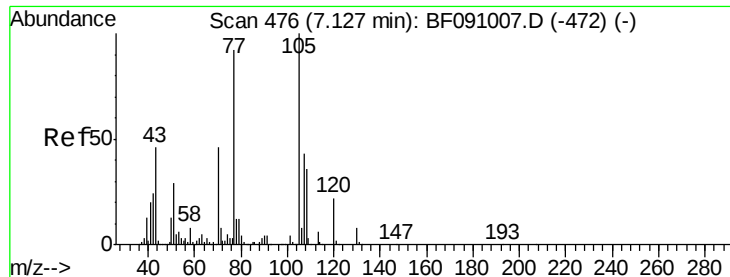
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 114.8 | 91.0  | 136.6 |
| 77      | 74.3  | 43.8  | 65.8# |
| 79      | 65.2  | 40.6  | 60.8# |



#18  
Hexachloroethane  
Concen: 55.05 ng  
RT: 7.14 min Scan# 477  
Delta R.T. -0.03 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 96.4  | 76.6  | 115.0  |
| 201     | 68.1  | 77.1  | 115.7# |

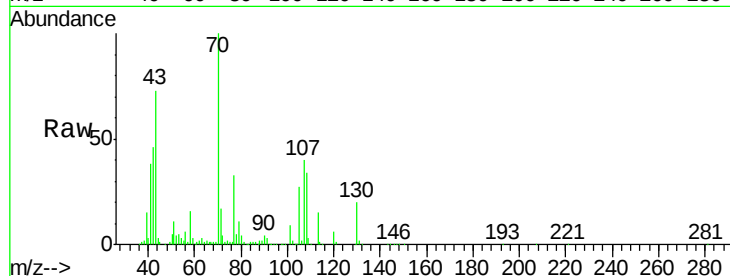




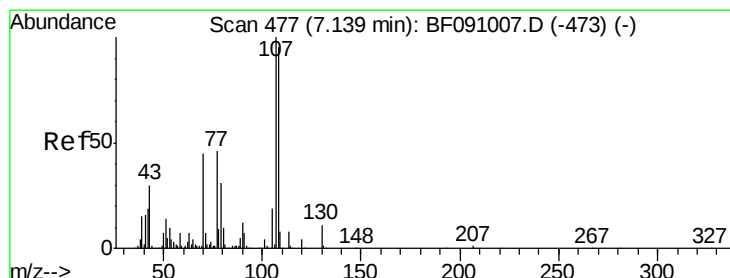
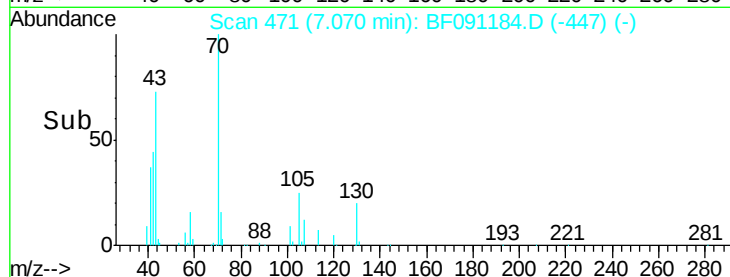
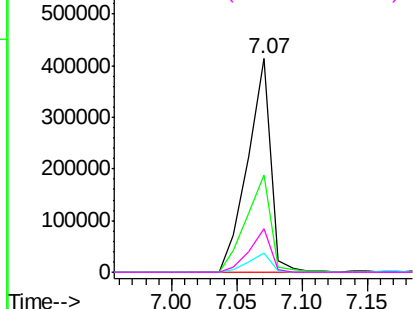
#19  
n-Nitroso-di-n-propylamine  
Concen: 55.10 ng  
RT: 7.07 min Scan# 471  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

Tgt Ion: 70 Resp: 507836  
Ion Ratio Lower Upper  
70 100  
42 45.9 41.7 62.5  
101 9.1 6.7 10.1  
130 20.1 13.8 20.8

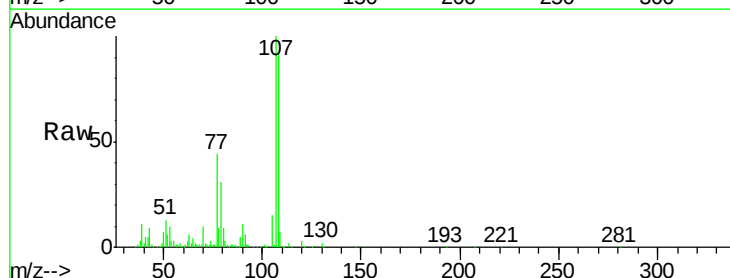


Abundance Ion 70.00 (69.70 to 70.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 101.00 (100.70 to 101.70): E  
Ion 130.00 (129.70 to 130.70): E

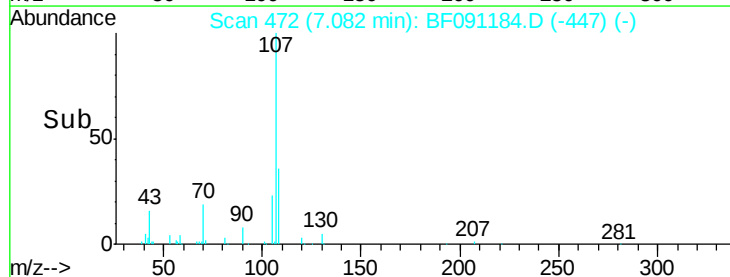
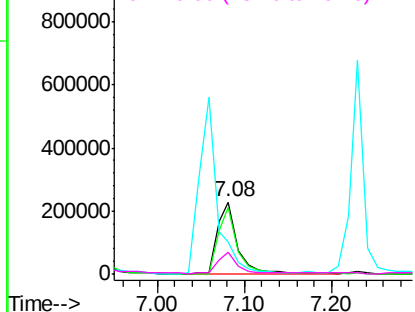


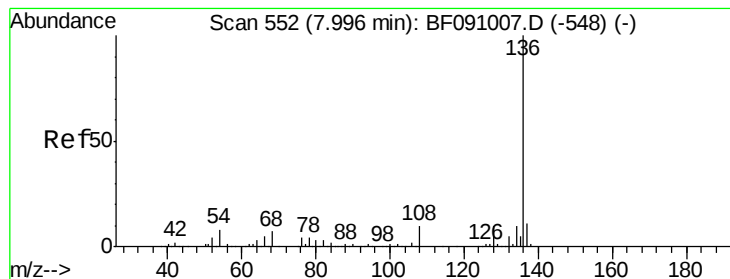
#20  
3+4-Methylphenols  
Concen: 33.14 ng  
RT: 7.08 min Scan# 472  
Delta R.T. -0.01 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Tgt Ion: 107 Resp: 368194  
Ion Ratio Lower Upper  
107 100  
108 92.5 75.5 115.5  
77 44.0 26.4 66.4  
79 30.6 11.1 51.1



Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF0  
Ion 79.00 (78.70 to 79.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.93 min Scan# 546

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

Tgt Ion:136 Resp: 645329

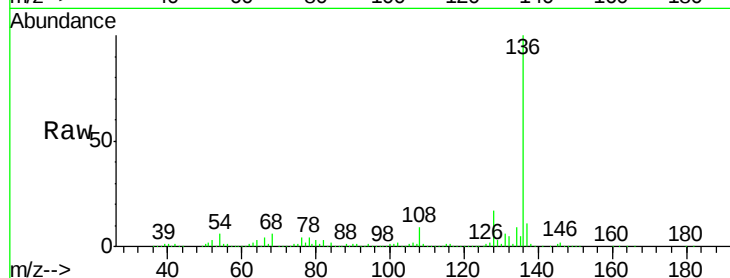
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 5.9 6.2 9.2#

68 5.5 5.5 8.3

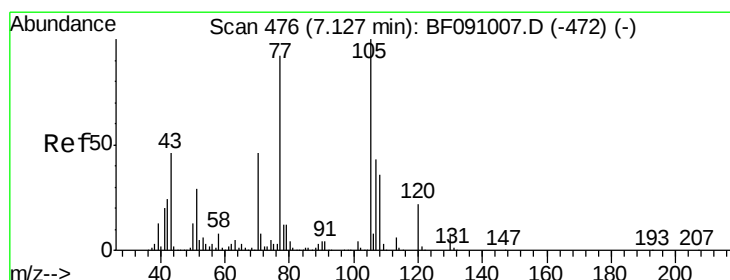
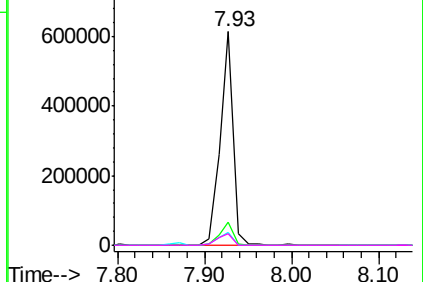
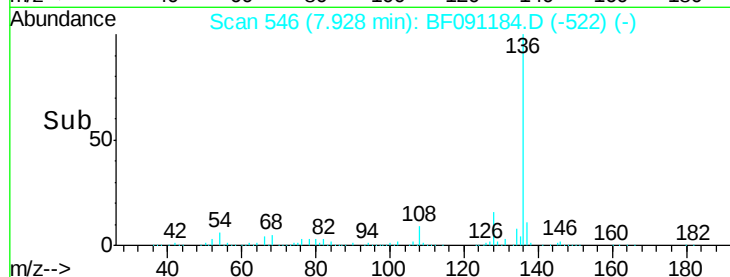


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#22

Acetophenone

Concen: 58.03 ng

RT: 7.06 min Scan# 470

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Tgt Ion:105 Resp: 862183

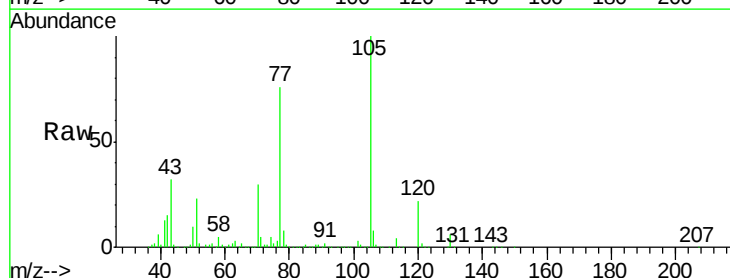
Ion Ratio Lower Upper

105 100

71 5.0 6.2 9.2#

51 23.3 23.3 34.9#

120 21.6 17.4 26.0

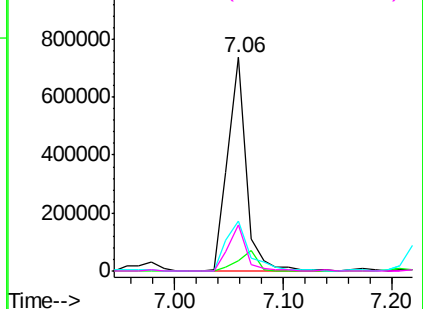
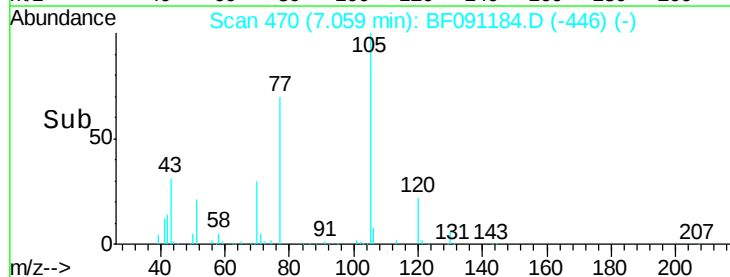


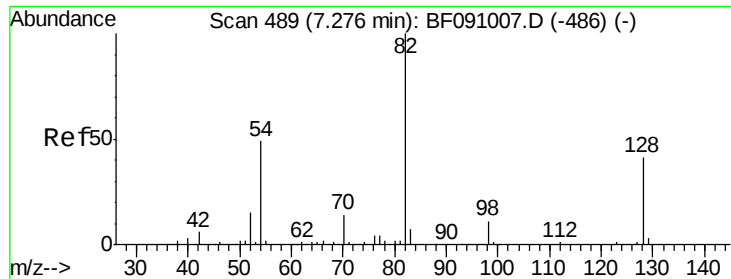
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E

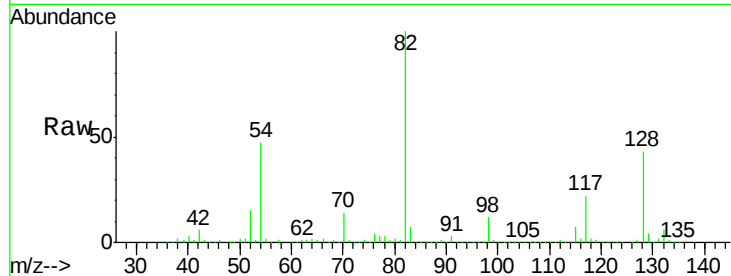




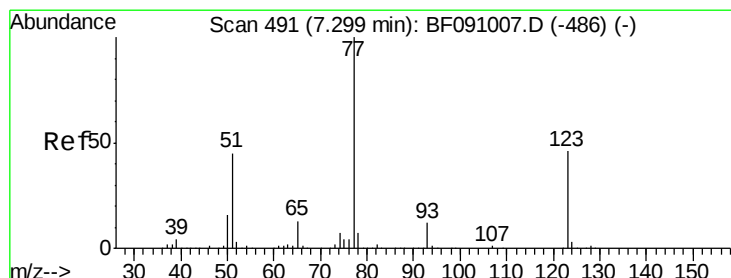
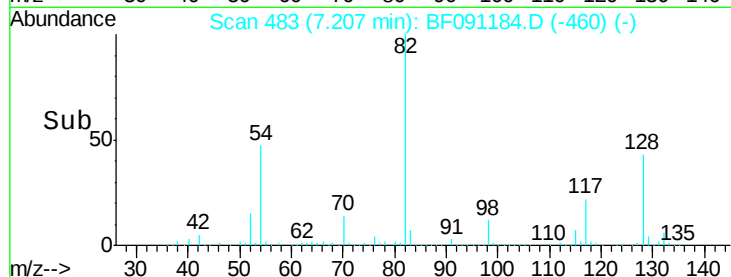
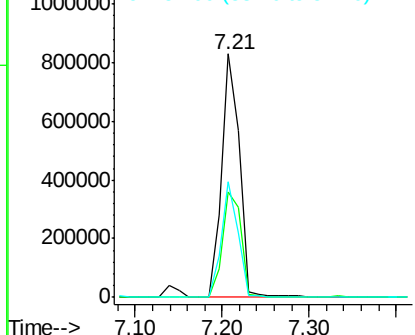
#23  
 Nitrobenzene-d5  
 Concen: 100.37 ng  
 RT: 7.21 min Scan# 483  
 Delta R.T. -0.03 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

Tgt Ion: 82 Resp: 1187388  
 Ion Ratio Lower Upper  
 82 100  
 128 43.1 32.4 48.6  
 54 47.2 39.2 58.8

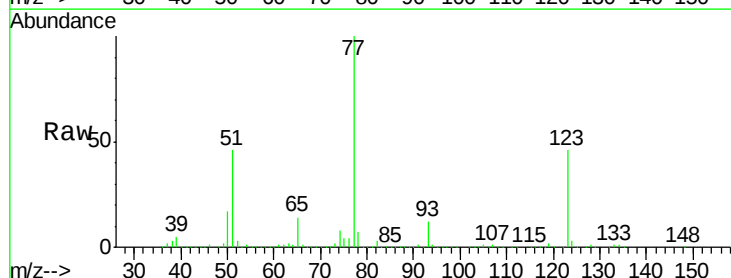


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

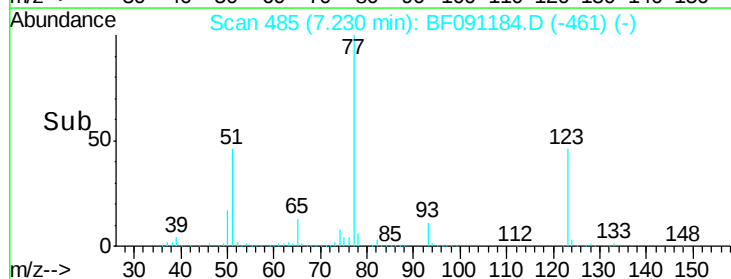
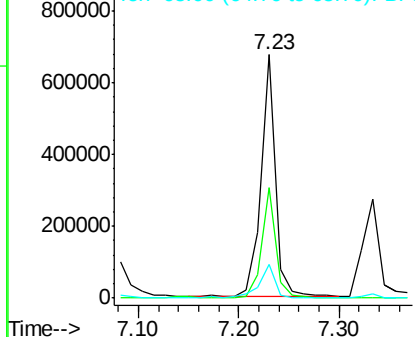


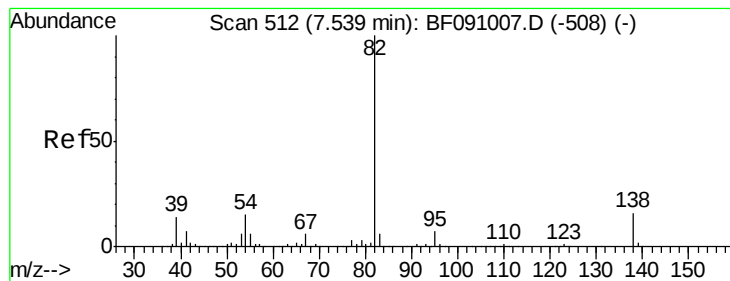
#24  
 Nitrobenzene  
 Concen: 52.43 ng  
 RT: 7.23 min Scan# 485  
 Delta R.T. -0.02 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Tgt Ion: 77 Resp: 685020  
 Ion Ratio Lower Upper  
 77 100  
 123 45.6 36.5 54.7  
 65 13.8 10.7 16.1



Abundance Ion 77.00 (76.70 to 77.70): BF0  
 Ion 123.00 (122.70 to 123.70): B  
 Ion 65.00 (64.70 to 65.70): BF0





#25

Isophorone

Concen: 47.20 ng

RT: 7.47 min Scan# 506

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

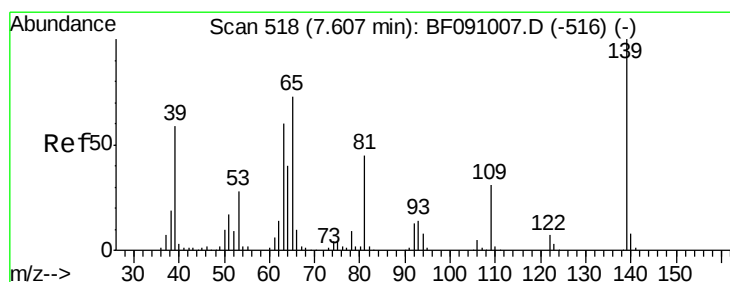
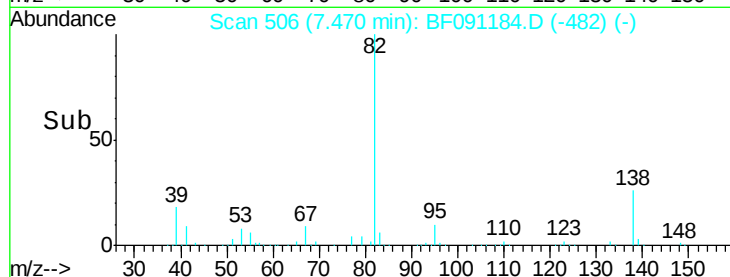
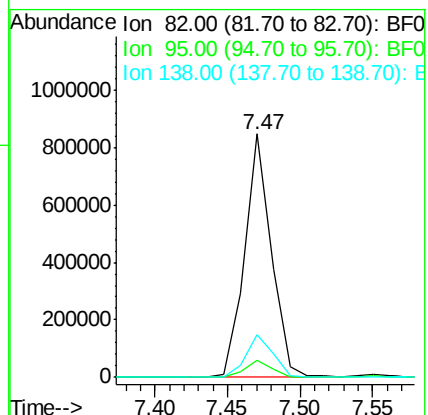
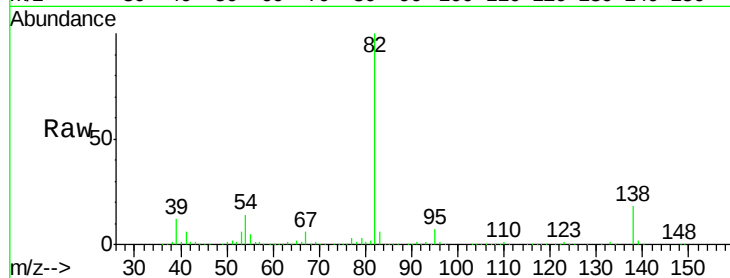
Tgt Ion: 82 Resp: 1075845

Ion Ratio Lower Upper

82 100

95 6.8 5.4 8.0

138 17.5 13.0 19.4



#26

2-Nitrophenol

Concen: 54.69 ng

RT: 7.55 min Scan# 513

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

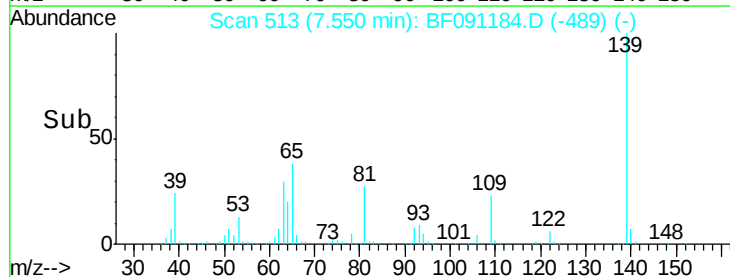
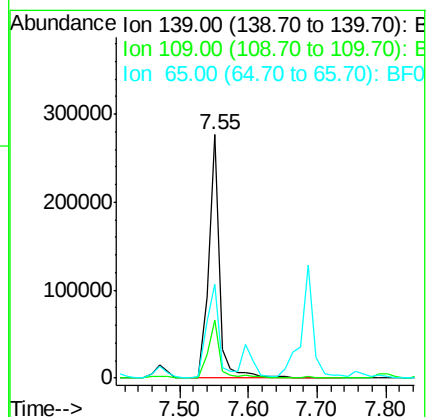
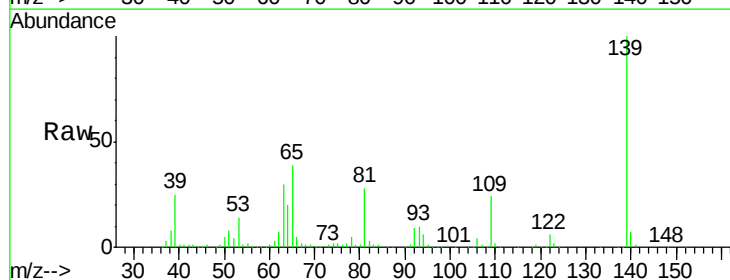
Tgt Ion: 139 Resp: 302389

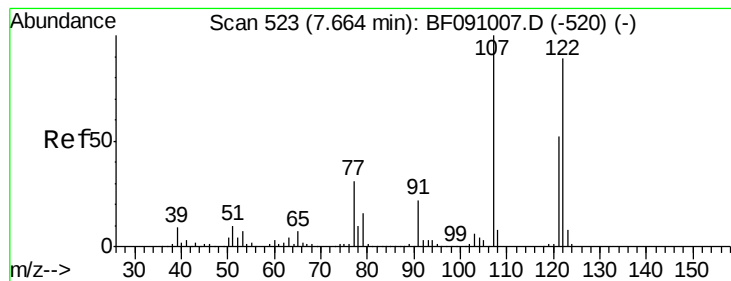
Ion Ratio Lower Upper

139 100

109 23.6 24.7 37.1#

65 38.6 58.3 87.5#





#27

2,4-Dimethylphenol

Concen: 44.08 ng

RT: 7.60 min Scan# 517

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

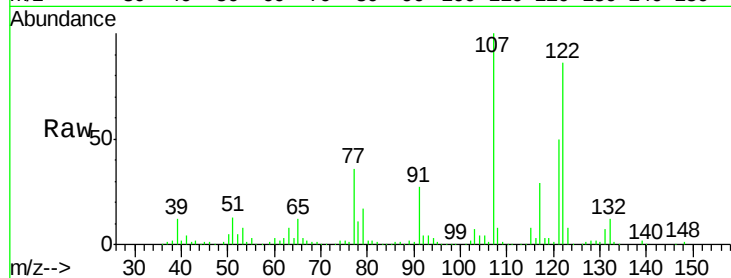
Tgt Ion:122 Resp: 403044

Ion Ratio Lower Upper

122 100

107 115.9 89.6 134.4

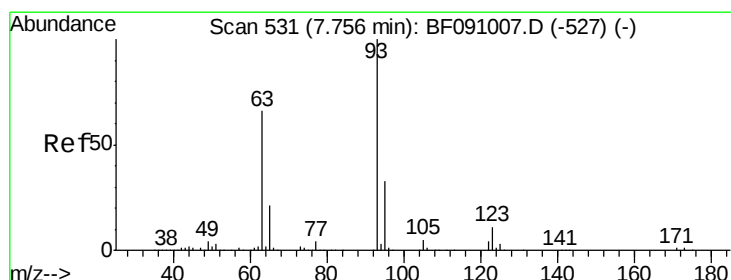
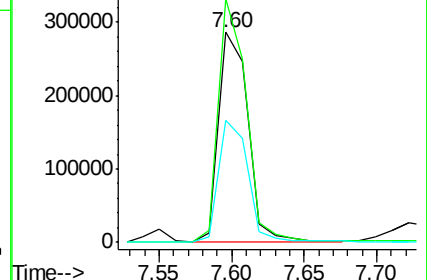
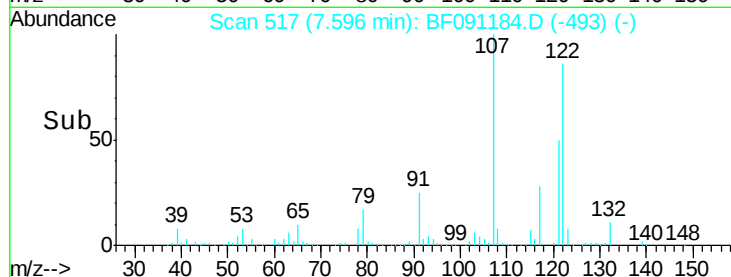
121 58.0 46.3 69.5



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#28

bis(2-Chloroethoxy)methane

Concen: 51.43 ng

RT: 7.69 min Scan# 525

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

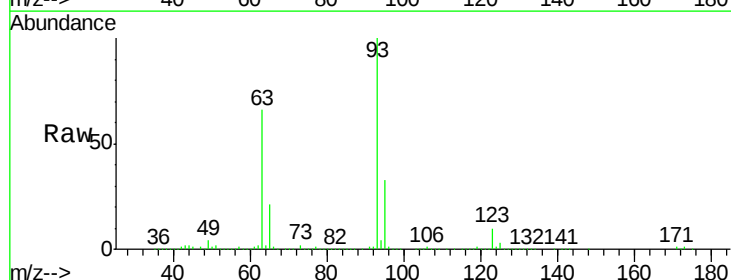
Tgt Ion: 93 Resp: 640463

Ion Ratio Lower Upper

93 100

95 33.4 26.3 39.5

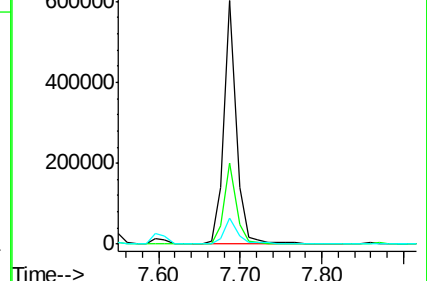
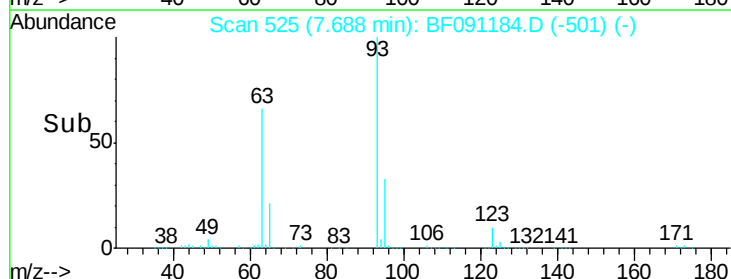
123 10.5 8.7 13.1

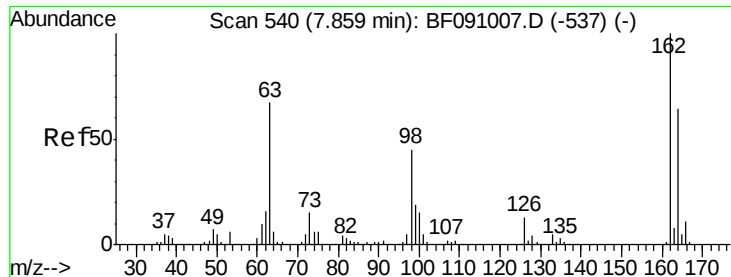


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 123.00 (122.70 to 123.70): E

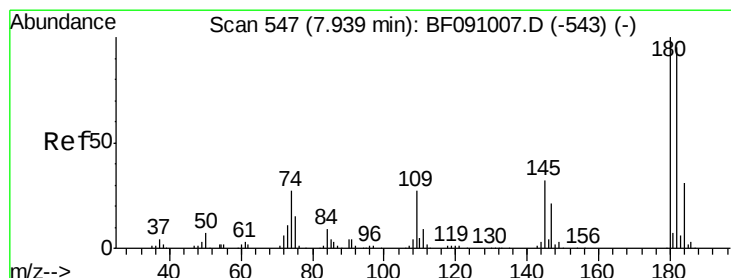
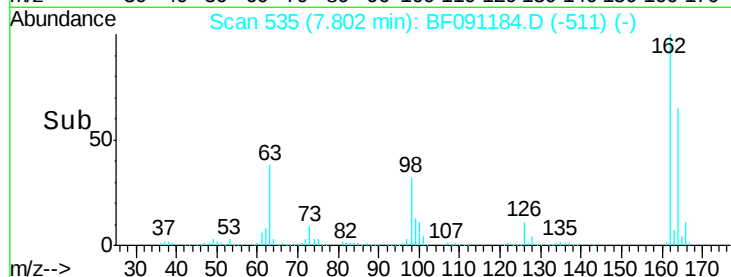
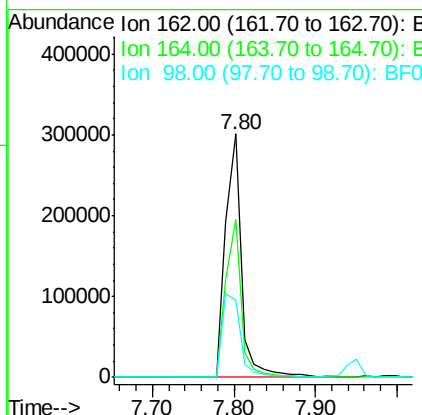
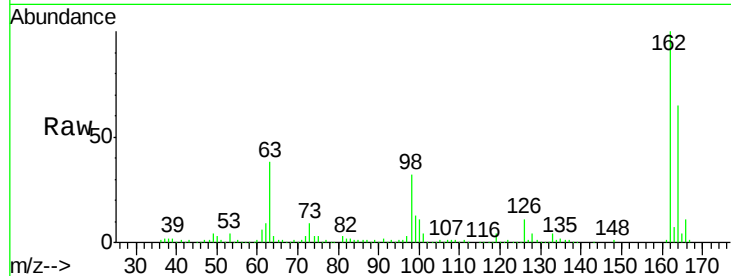




#29  
2,4-Dichlorophenol  
Concen: 50.85 ng  
RT: 7.80 min Scan# 535  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

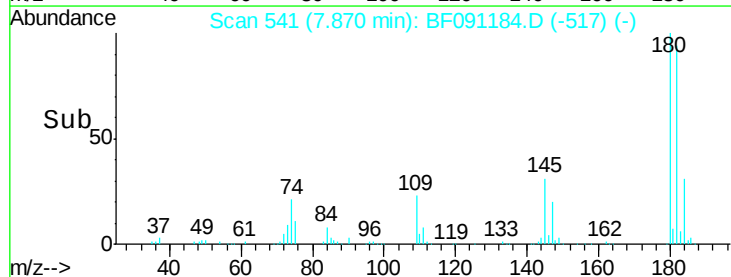
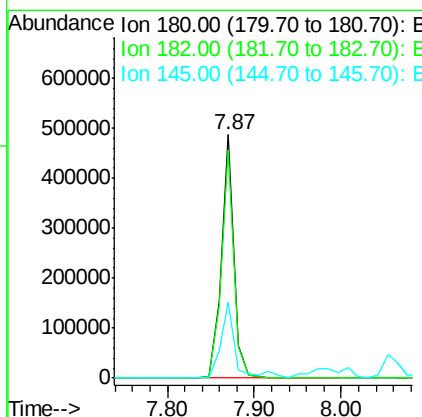
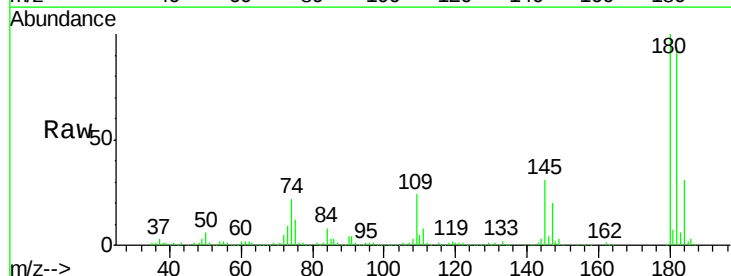
Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

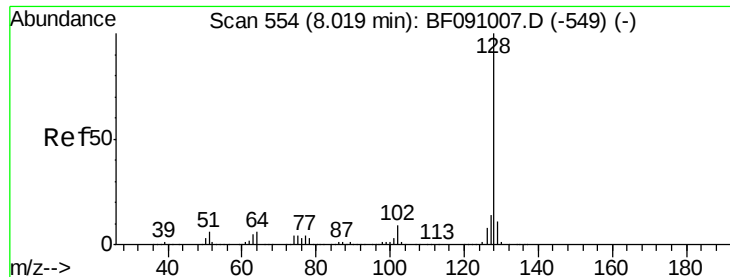
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 64.9  | 44.4  | 84.4  |
| 98      | 31.9  | 25.2  | 65.2  |



#30  
1,2,4-Trichlorobenzene  
Concen: 55.20 ng  
RT: 7.87 min Scan# 541  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.8  | 76.0  | 114.0 |
| 145     | 31.0  | 25.8  | 38.8  |

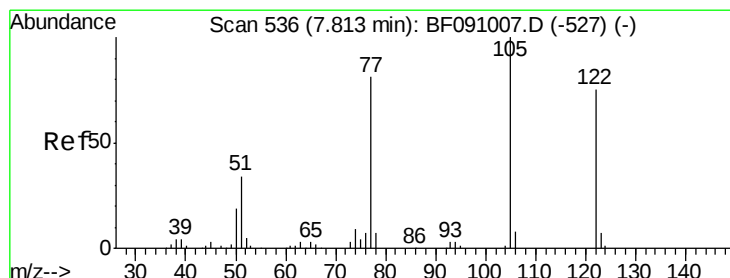
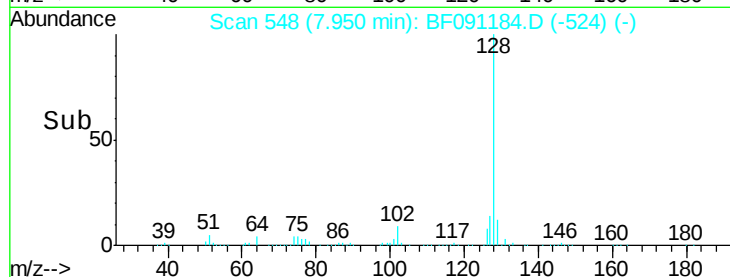
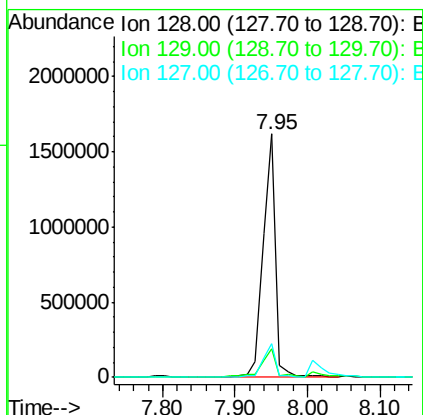
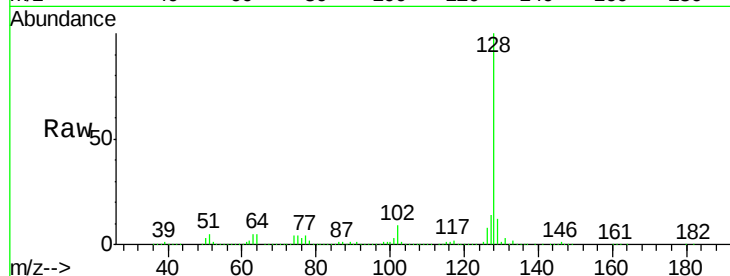




#31  
Naphthalene  
Concen: 64.21 ng  
RT: 7.95 min Scan# 548  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

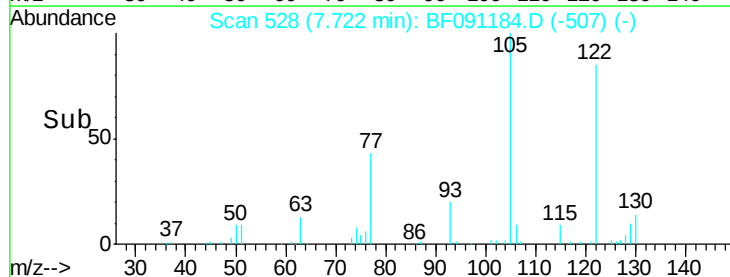
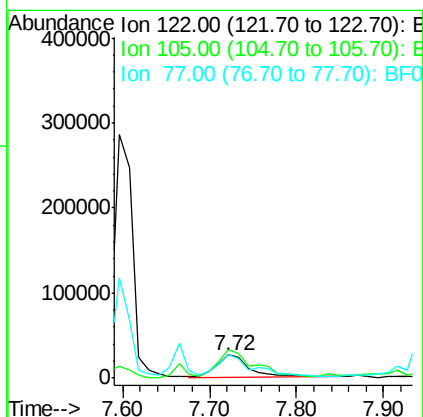
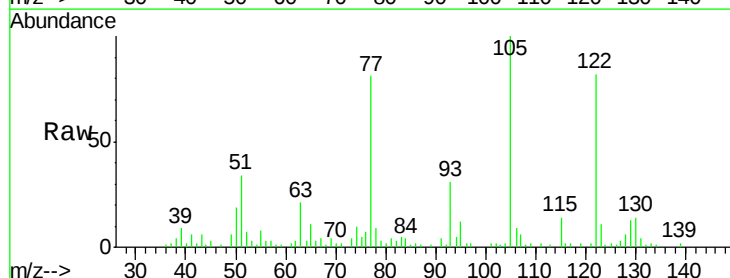
Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

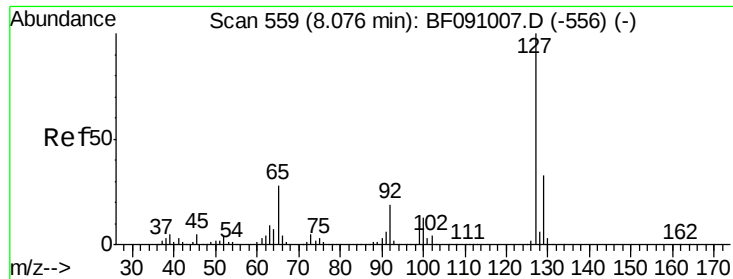
Tgt Ion:128 Resp: 1981521  
Ion Ratio Lower Upper  
128 100  
129 11.9 9.0 13.6  
127 14.0 10.9 16.3



#32  
Benzoic acid  
Concen: 13.56 ng  
RT: 7.72 min Scan# 528  
Delta R.T. -0.06 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Tgt Ion:122 Resp: 67670  
Ion Ratio Lower Upper  
122 100  
105 121.6 105.9 145.9  
77 99.0 84.0 124.0

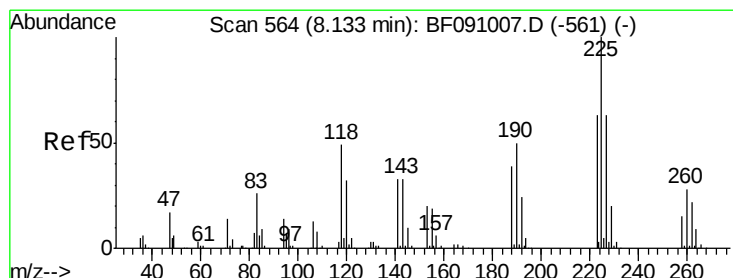
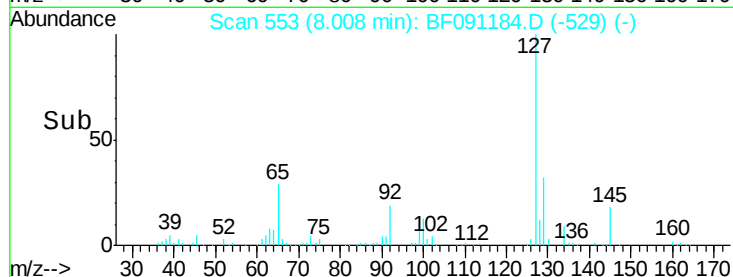
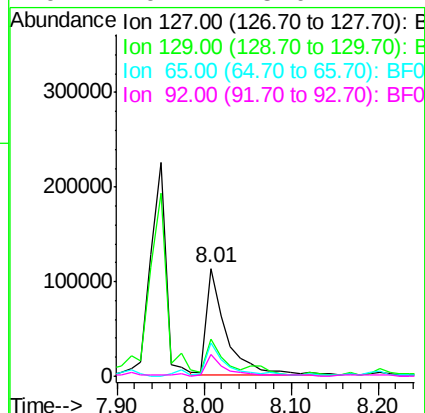
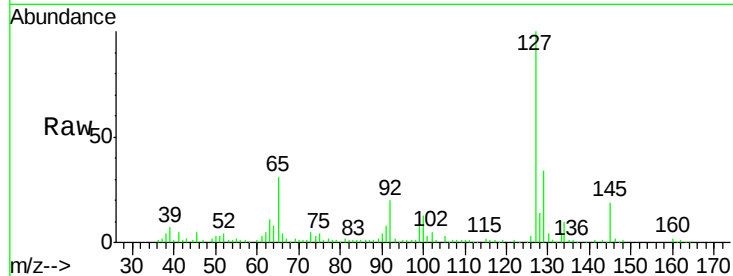




#33  
4-Chloroaniline  
Concen: 13.85 ng  
RT: 8.01 min Scan# 553  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

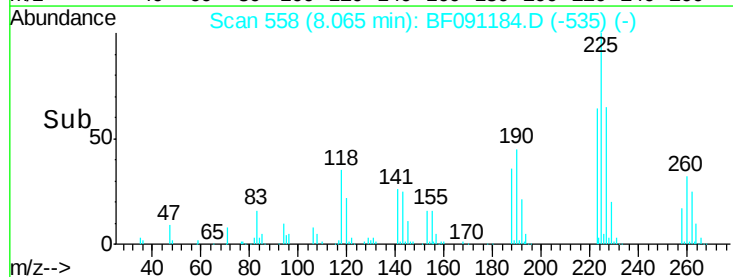
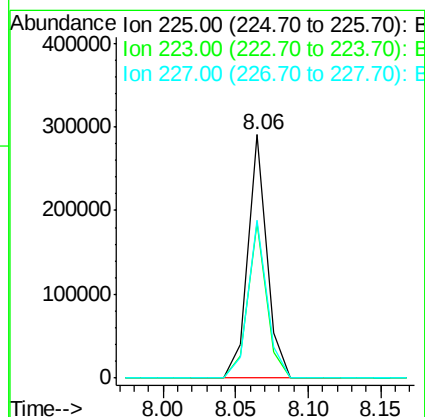
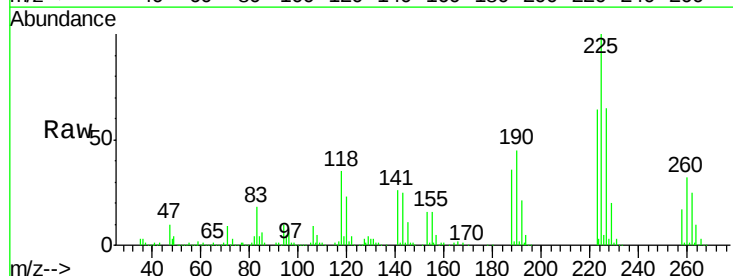
Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

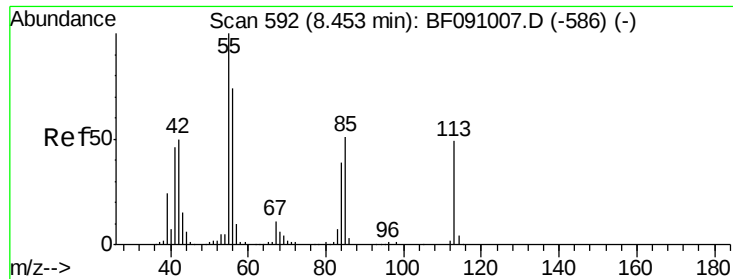
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 127   | Resp: | 177751 |
| Ion      | Ratio | Lower | Upper  |
| 127      | 100   |       |        |
| 129      | 34.1  | 26.6  | 39.8   |
| 65       | 30.8  | 22.2  | 33.2   |
| 92       | 19.7  | 15.0  | 22.4   |



#34  
Hexachlorobutadiene  
Concen: 54.73 ng  
RT: 8.06 min Scan# 558  
Delta R.T. -0.03 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 225   | Resp: | 265052 |
| Ion      | Ratio | Lower | Upper  |
| 225      | 100   |       |        |
| 223      | 63.7  | 50.4  | 75.6   |
| 227      | 64.6  | 50.1  | 75.1   |

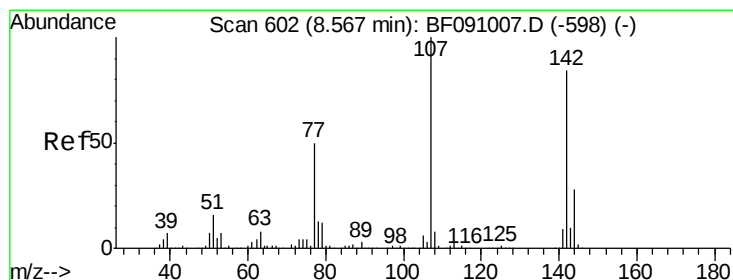
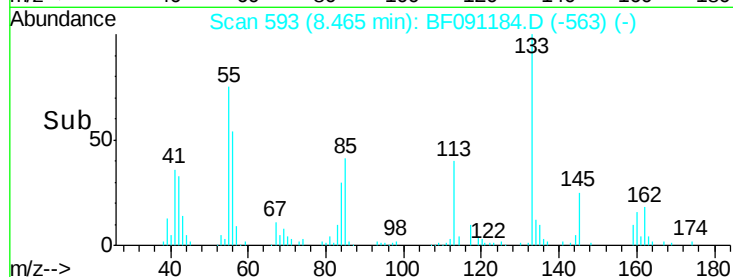
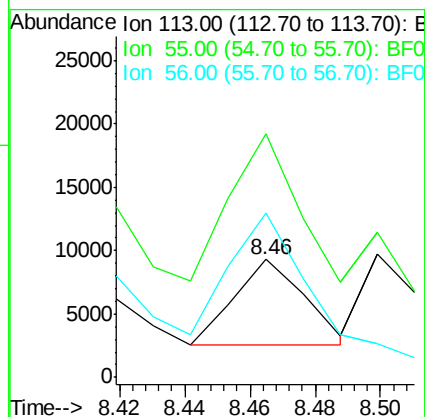
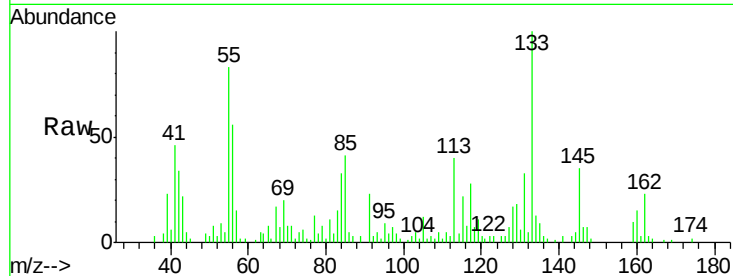




#35  
 Caprolactam  
 Concen: 4.06 ng  
 RT: 8.46 min Scan# 593  
 Delta R.T. 0.05 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

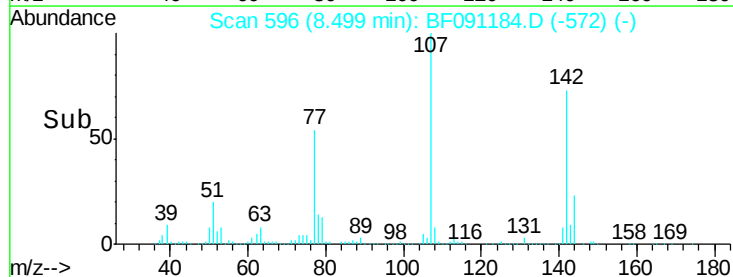
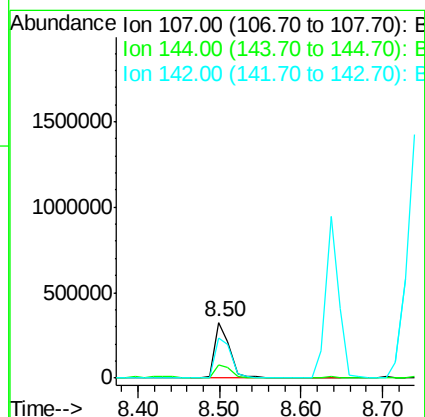
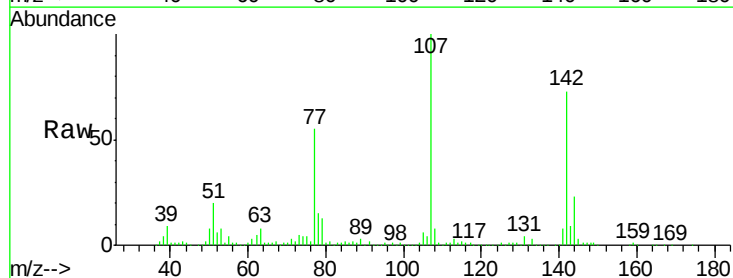
Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

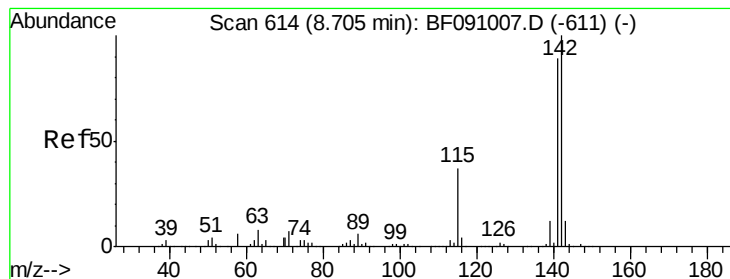
Tgt Ion:113 Resp: 10182  
 Ion Ratio Lower Upper  
 113 100  
 55 206.4 184.1 224.1  
 56 139.1 132.0 172.0



#36  
 4-Chloro-3-methylphenol  
 Concen: 42.56 ng  
 RT: 8.50 min Scan# 596  
 Delta R.T. -0.02 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Tgt Ion:107 Resp: 411192  
 Ion Ratio Lower Upper  
 107 100  
 144 23.5 22.5 33.7  
 142 73.2 67.4 101.2

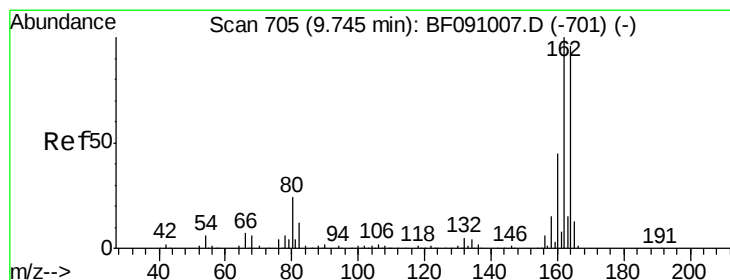
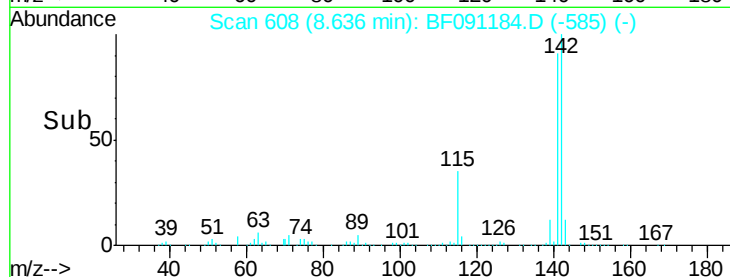
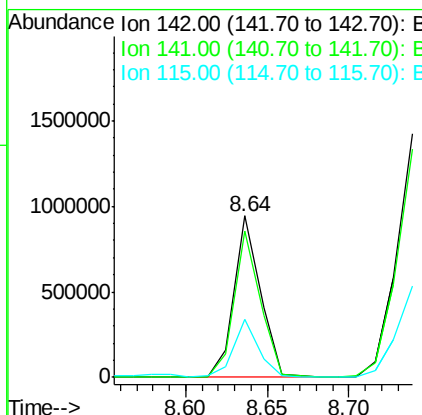
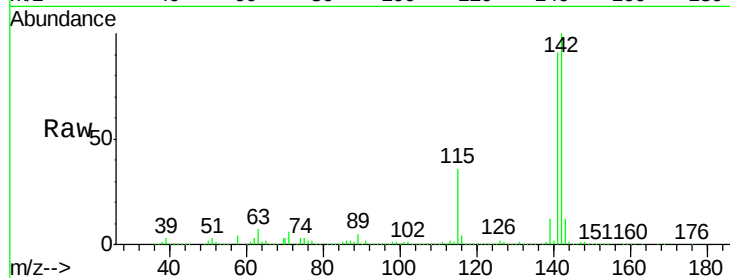




#37  
 2-Methylnaphthalene  
 Concen: 53.30 ng  
 RT: 8.64 min Scan# 608  
 Delta R.T. -0.03 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

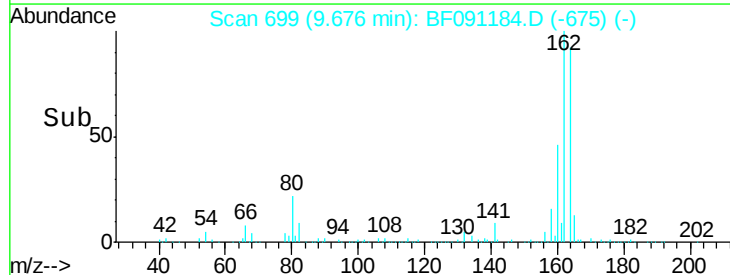
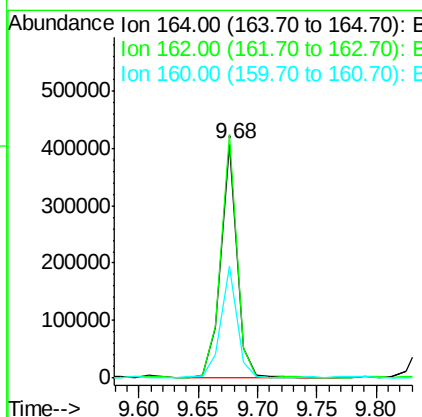
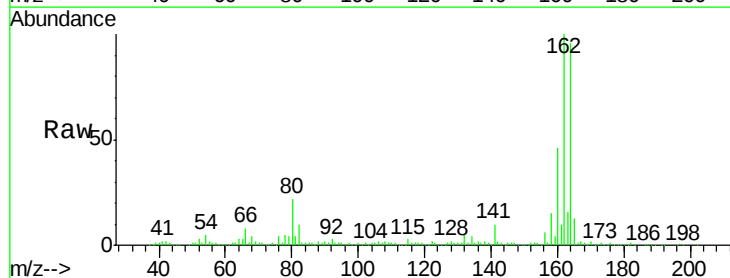
Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

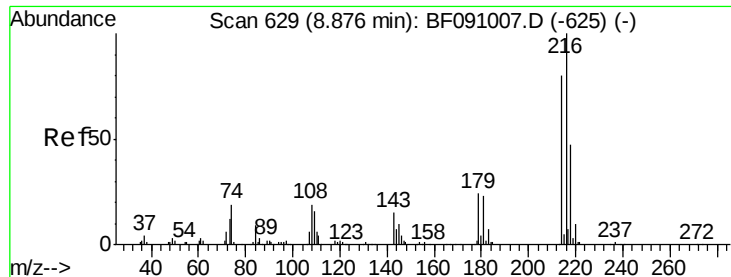
Tgt Ion:142 Resp: 1057479  
 Ion Ratio Lower Upper  
 142 100  
 141 90.9 71.3 106.9  
 115 35.8 29.9 44.9



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.68 min Scan# 699  
 Delta R.T. -0.02 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Tgt Ion:164 Resp: 384523  
 Ion Ratio Lower Upper  
 164 100  
 162 104.1 83.6 125.4  
 160 47.6 37.9 56.9





#39

1,2,4,5-Tetrachlorobenzene

Concen: 51.32 ng

RT: 8.81 min Scan# 623

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

Tgt Ion:216 Resp: 503105

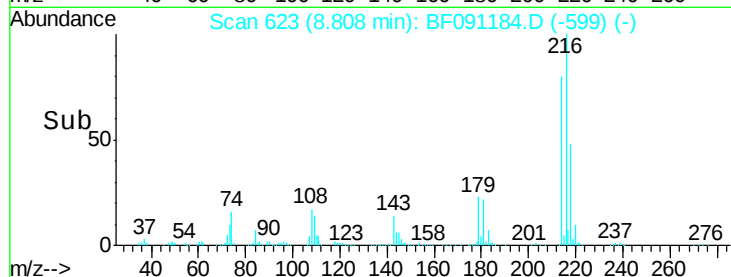
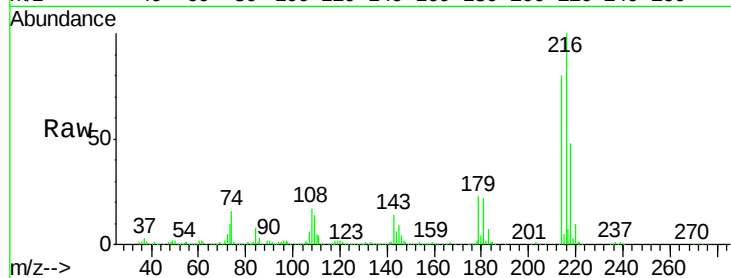
Ion Ratio Lower Upper

216 100

214 79.1 63.5 95.3

179 22.5 19.1 28.7

108 18.8 17.5 26.3



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

Time-->

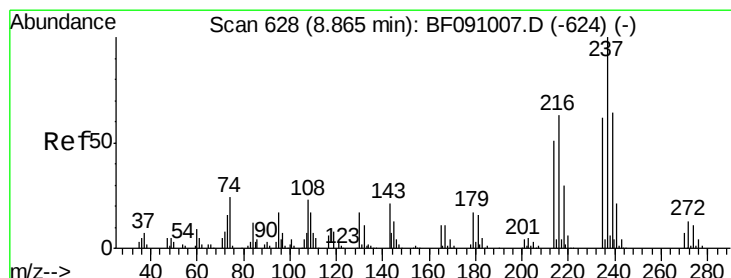
8.81

400000

200000

0

8.70 8.80 8.90 9.00



#40

Hexachlorocyclopentadiene

Concen: 89.70 ng

RT: 8.80 min Scan# 622

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

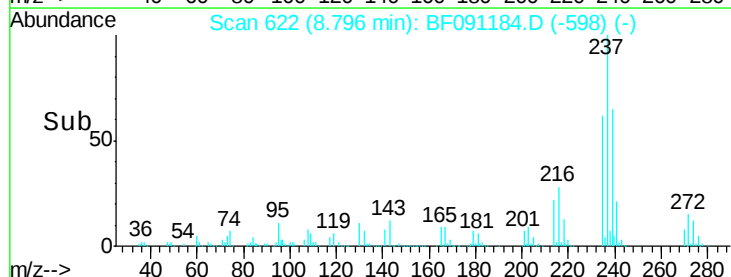
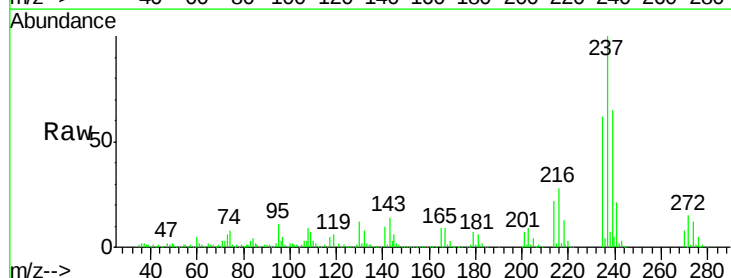
Tgt Ion:237 Resp: 344544

Ion Ratio Lower Upper

237 100

235 61.8 42.1 82.1

272 14.5 0.0 33.1



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

Time-->

8.80

400000

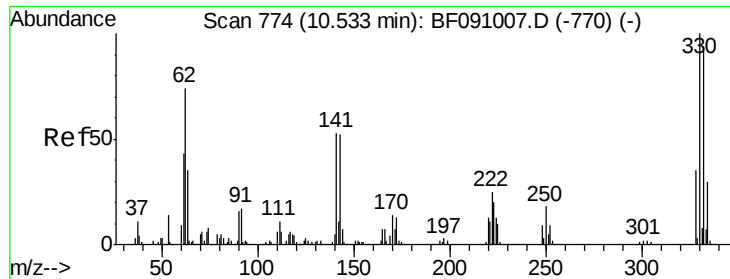
300000

200000

100000

0

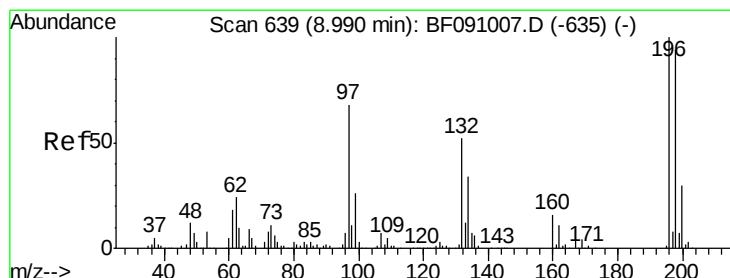
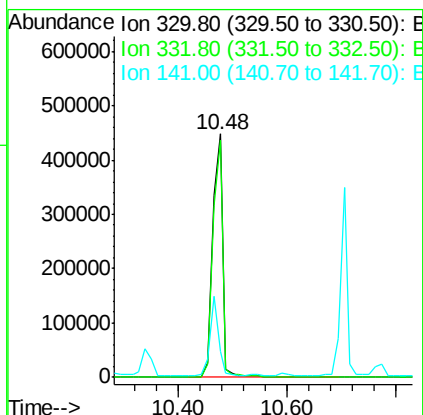
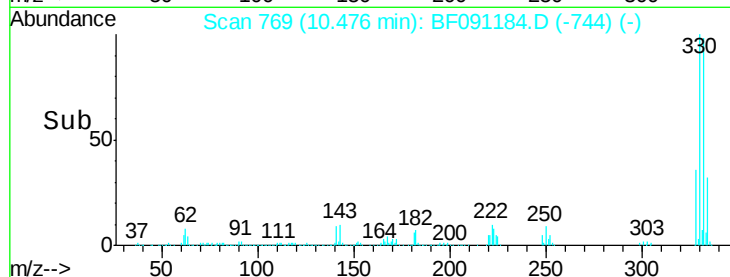
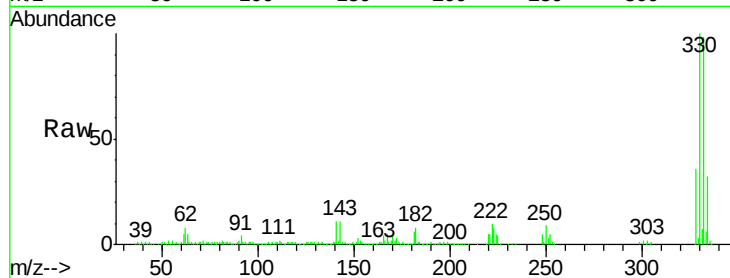
8.75 8.80 8.85



#41  
 2,4,6-Tribromophenol  
 Concen: 169.15 ng  
 RT: 10.48 min Scan# 769  
 Delta R.T. -0.01 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

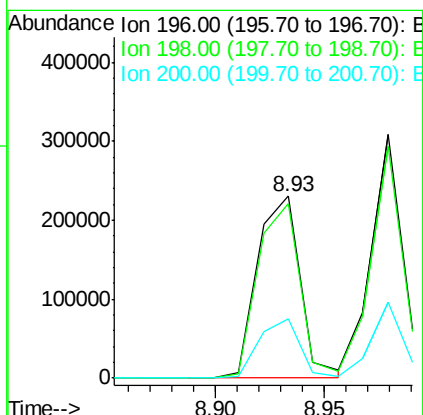
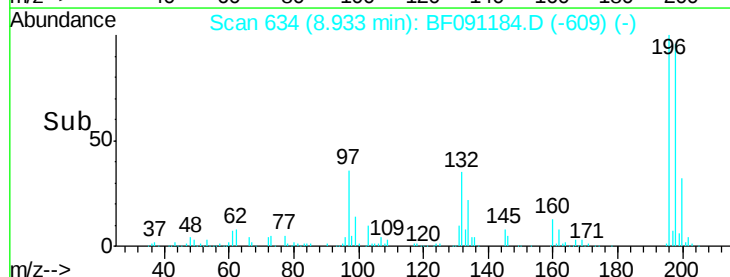
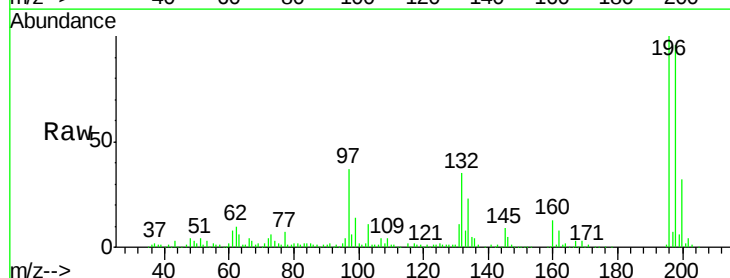
Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

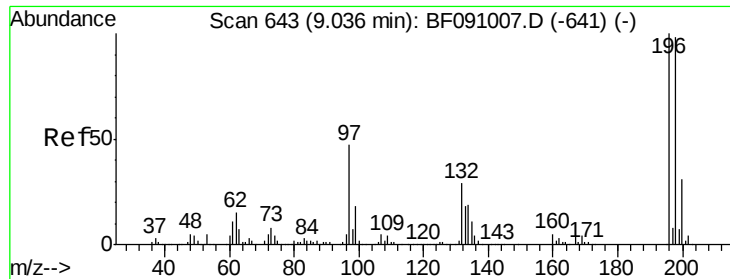
Tgt Ion:330 Resp: 588024  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 75.9 113.9  
 141 28.3 36.1 54.1#



#42  
 2,4,6-Trichlorophenol  
 Concen: 50.11 ng  
 RT: 8.93 min Scan# 634  
 Delta R.T. -0.01 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Tgt Ion:196 Resp: 317150  
 Ion Ratio Lower Upper  
 196 100  
 198 96.0 75.4 113.0  
 200 32.3 24.1 36.1

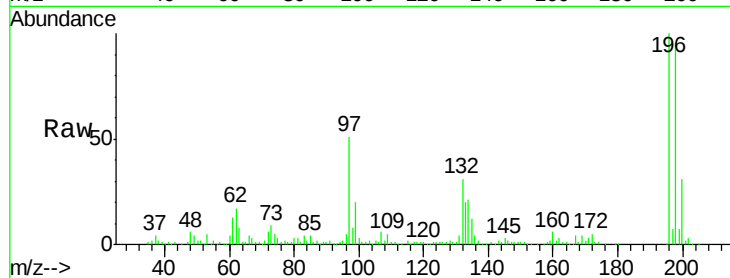




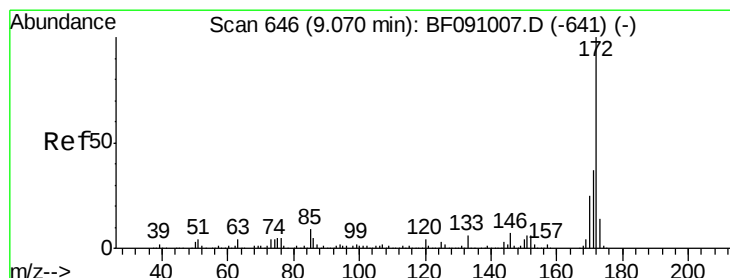
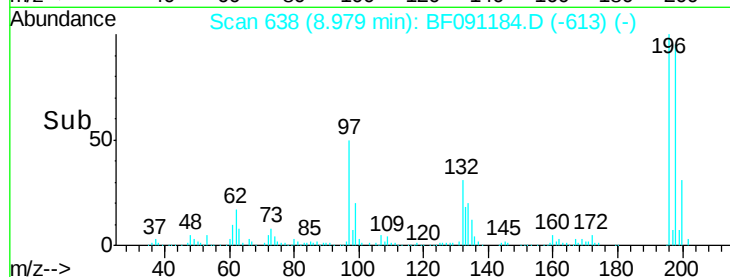
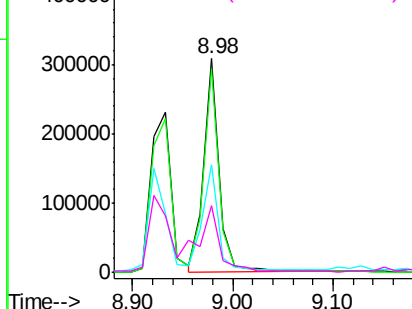
#43  
 2,4,5-Trichlorophenol  
 Concen: 49.26 ng  
 RT: 8.98 min Scan# 638  
 Delta R.T. -0.01 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

Tgt Ion:196 Resp: 327339  
 Ion Ratio Lower Upper  
 196 100  
 198 95.2 78.2 117.4  
 97 50.5 38.8 58.2  
 132 31.3 23.5 35.3

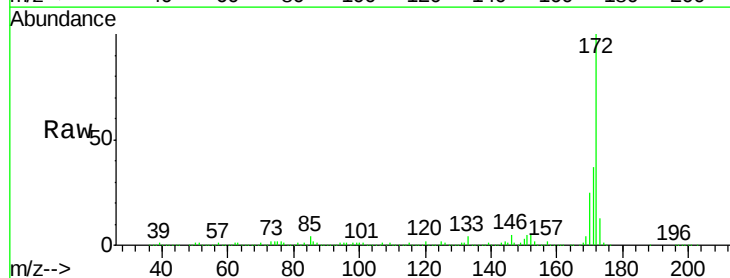


Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 97.00 (96.70 to 97.70): BF0  
 Ion 132.00 (131.70 to 132.70): E

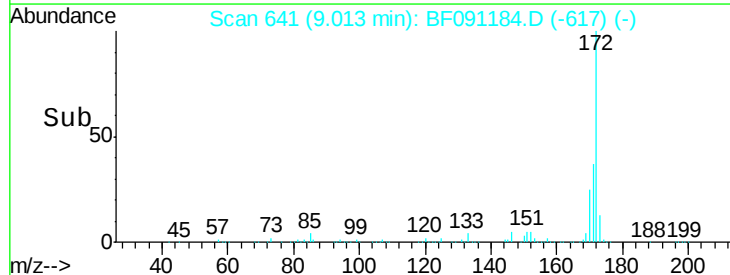
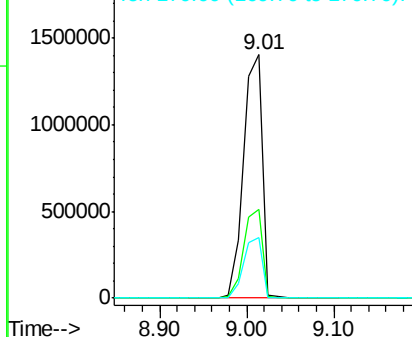


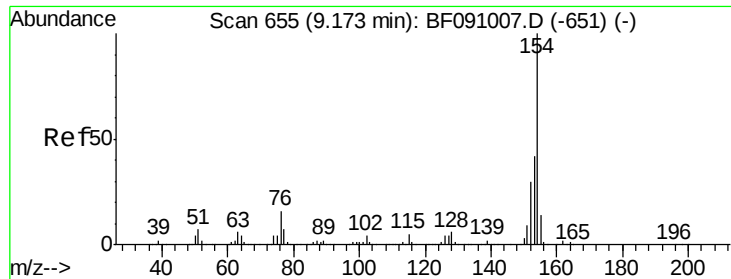
#44  
 2-Fluorobiphenyl  
 Concen: 94.26 ng  
 RT: 9.01 min Scan# 641  
 Delta R.T. -0.02 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Tgt Ion:172 Resp: 2105236  
 Ion Ratio Lower Upper  
 172 100  
 171 36.6 29.8 44.6  
 170 24.8 20.3 30.5



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

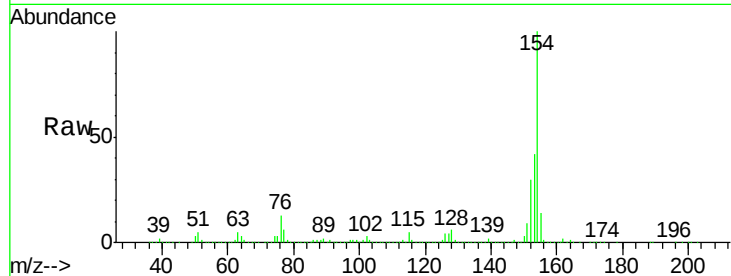




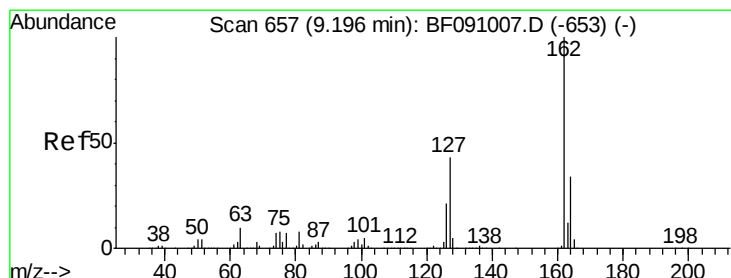
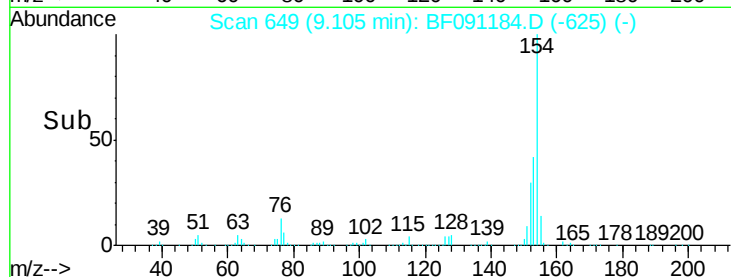
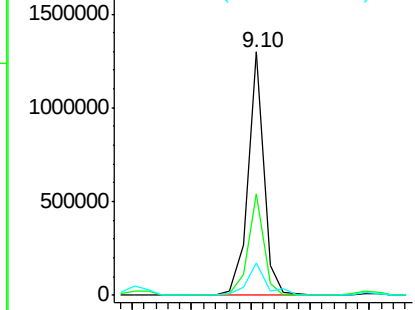
#45  
 1,1'-Biphenyl  
 Concen: 43.39 ng  
 RT: 9.10 min Scan# 649  
 Delta R.T. -0.02 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

Tgt Ion:154 Resp: 1218404  
 Ion Ratio Lower Upper  
 154 100  
 153 41.9 21.6 61.6  
 76 13.2 0.0 36.2

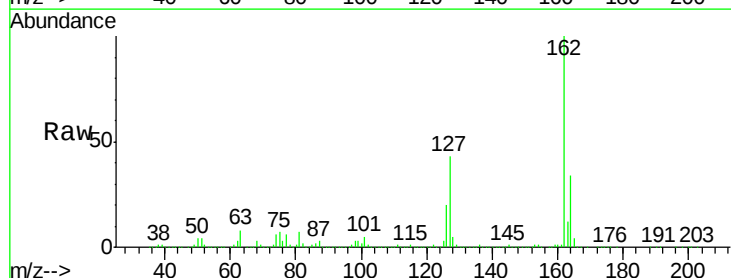


Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BF0

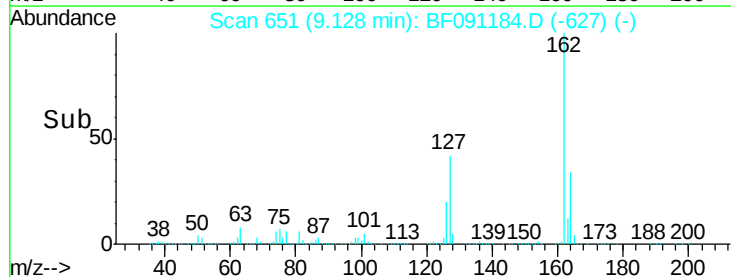
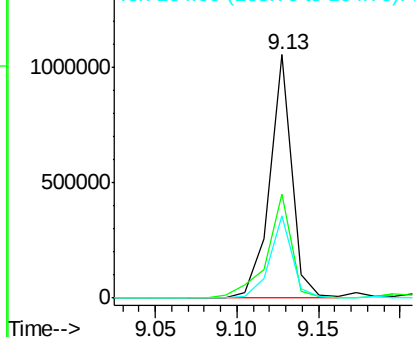


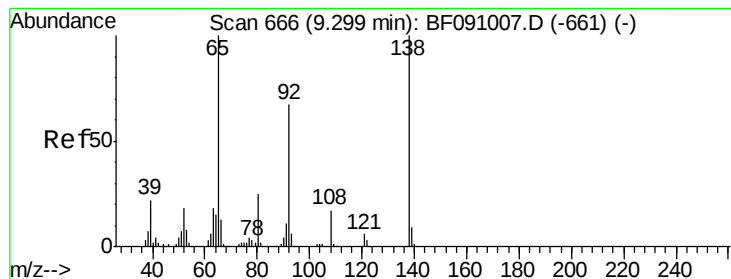
#46  
 2-Chloronaphthalene  
 Concen: 46.85 ng  
 RT: 9.13 min Scan# 651  
 Delta R.T. -0.02 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Tgt Ion:162 Resp: 998753  
 Ion Ratio Lower Upper  
 162 100  
 127 42.5 34.7 52.1  
 164 34.0 27.0 40.4



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





#47

2-Nitroaniline

Concen: 41.34 ng

RT: 9.24 min Scan# 661

Delta R.T. -0.01 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

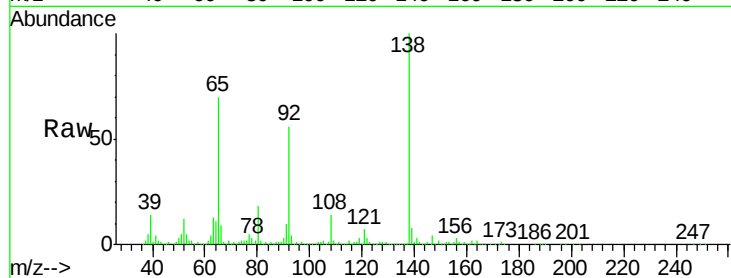
Tgt Ion: 65 Resp: 327064

Ion Ratio Lower Upper

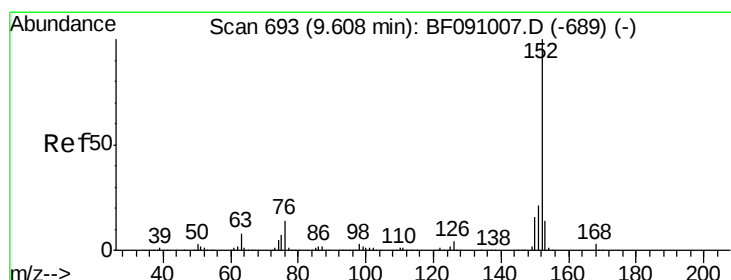
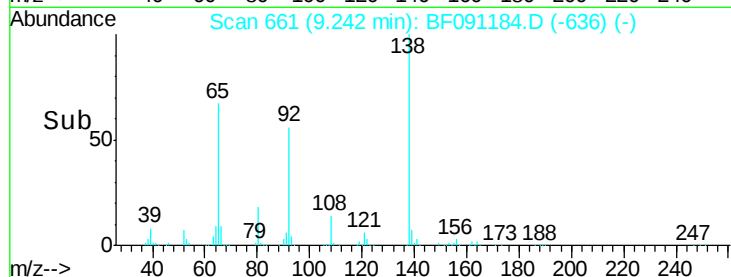
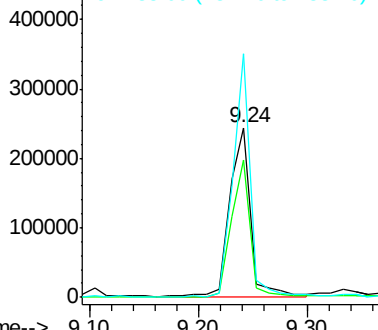
65 100

92 81.0 53.9 80.9#

138 143.4 80.1 120.1#



Abundance Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0



#48

Acenaphthylene

Concen: 41.89 ng

RT: 9.54 min Scan# 687

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

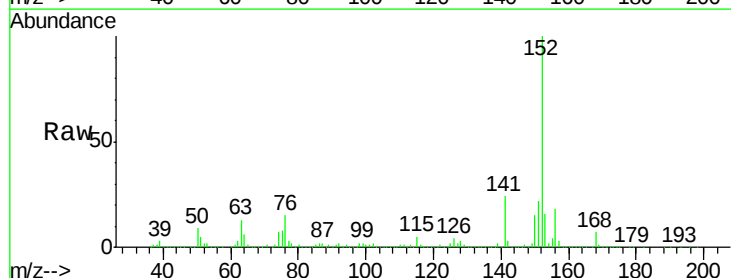
Tgt Ion: 152 Resp: 1391504

Ion Ratio Lower Upper

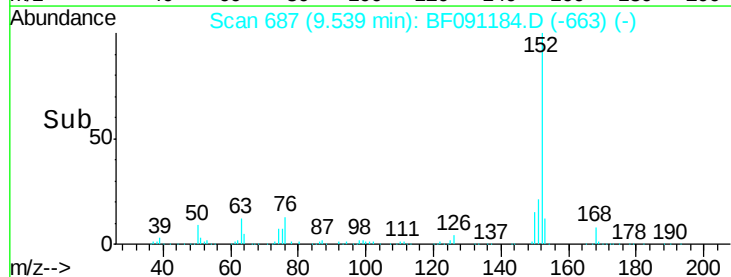
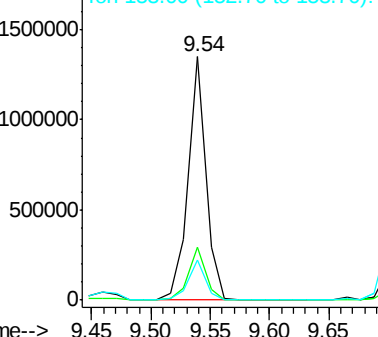
152 100

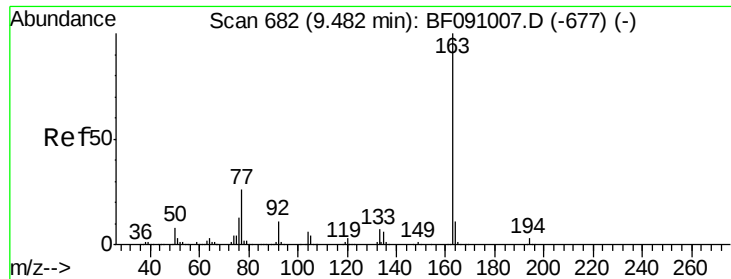
151 21.6 16.7 25.1

153 16.3 11.1 16.7



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E

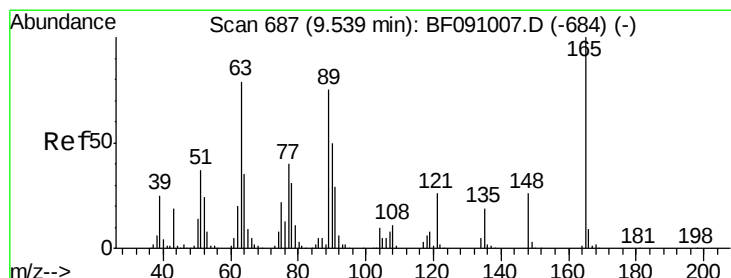
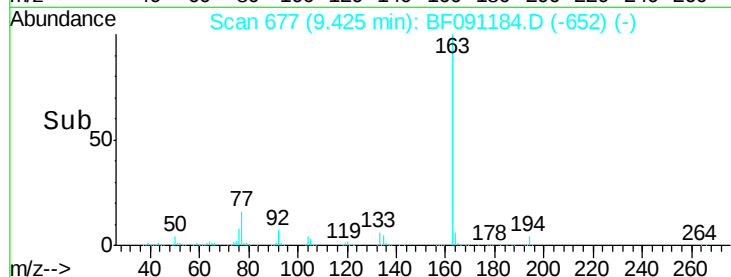
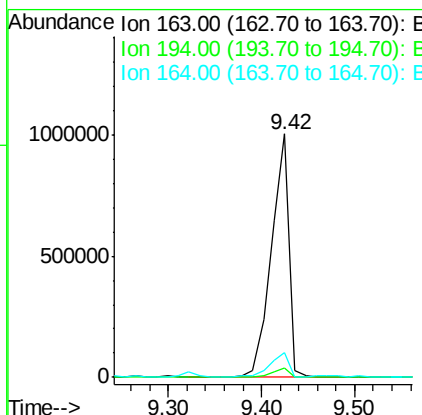
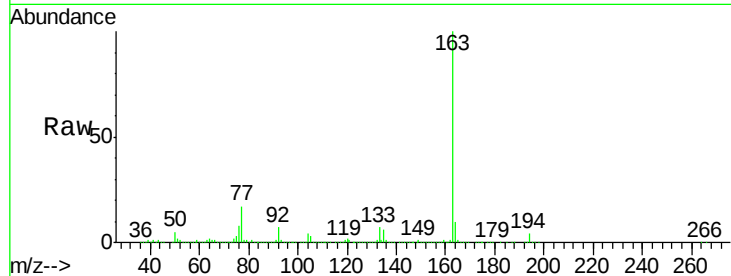




#49  
Dimethylphthalate  
Concen: 53.35 ng  
RT: 9.42 min Scan# 677  
Delta R.T. -0.01 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

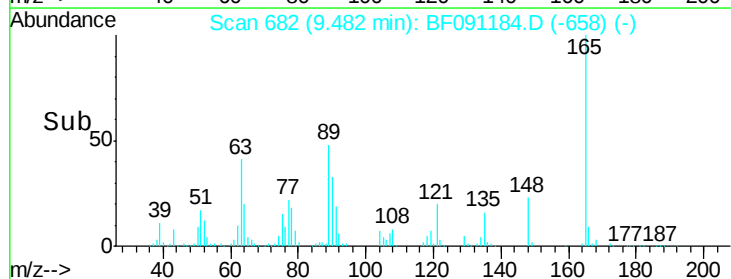
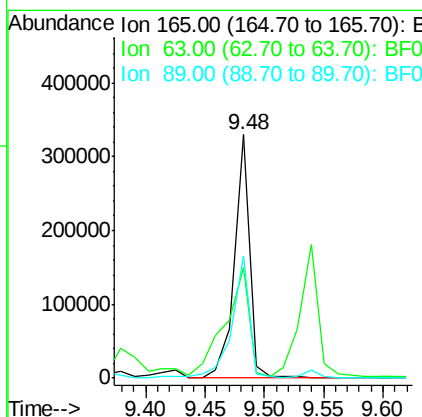
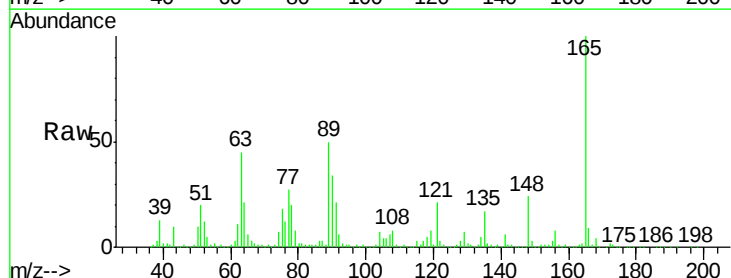
Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

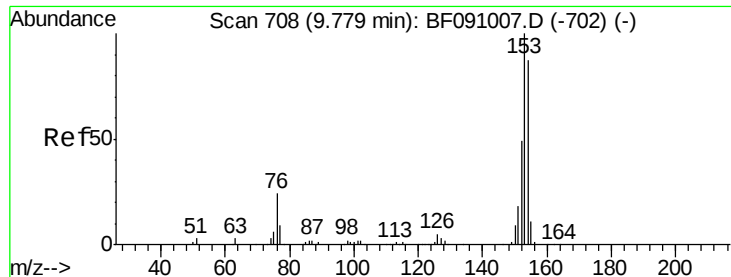
Tgt Ion:163 Resp: 1345085  
Ion Ratio Lower Upper  
163 100  
194 3.8 2.6 4.0  
164 10.2 8.7 13.1



#50  
2,6-Dinitrotoluene  
Concen: 53.85 ng  
RT: 9.48 min Scan# 682  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Tgt Ion:165 Resp: 291010  
Ion Ratio Lower Upper  
165 100  
63 45.2 65.6 98.4#  
89 50.2 59.8 89.6#





#51

Acenaphthene

Concen: 50.59 ng

RT: 9.71 min Scan# 702

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

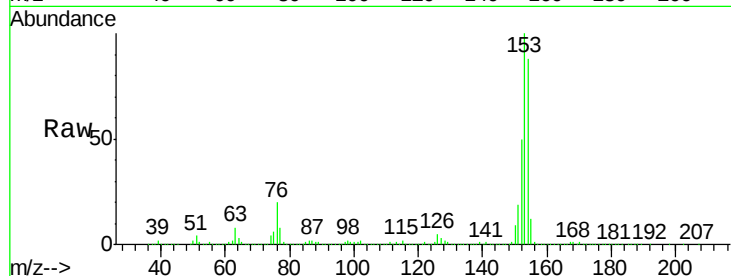
Tgt Ion:154 Resp: 1055211

Ion Ratio Lower Upper

154 100

153 113.6 91.6 137.4

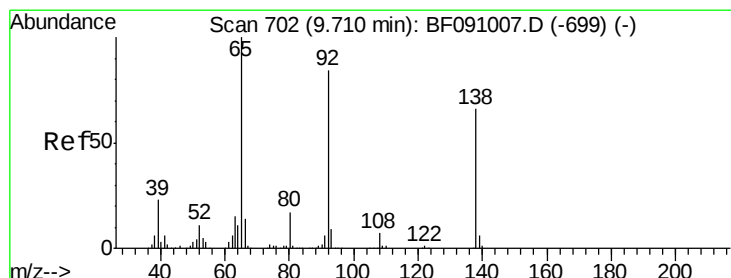
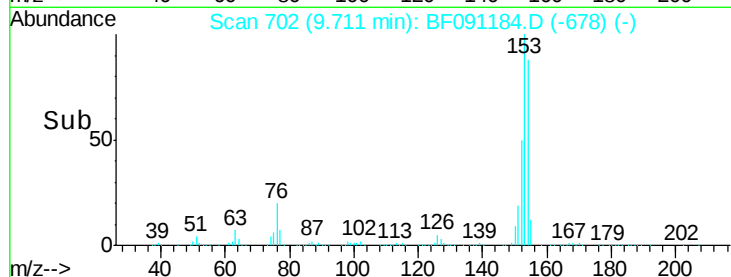
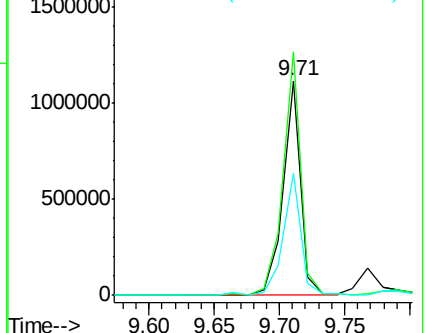
152 57.1 44.6 67.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#52

3-Nitroaniline

Concen: 12.83 ng

RT: 9.65 min Scan# 697

Delta R.T. -0.01 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

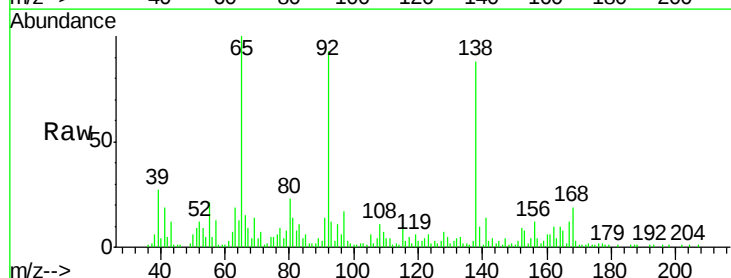
Tgt Ion:138 Resp: 82234

Ion Ratio Lower Upper

138 100

108 12.7 8.4 12.6#

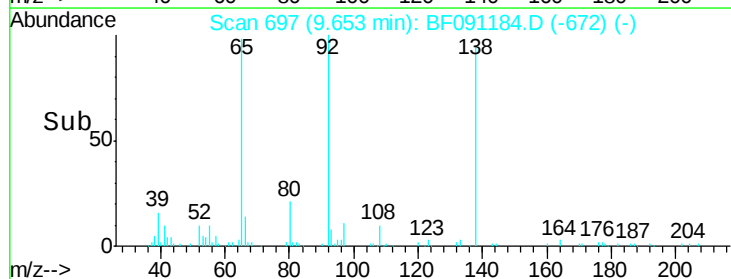
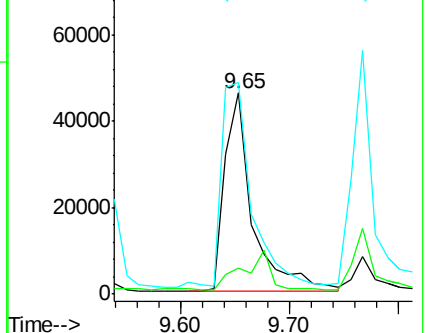
92 105.4 101.1 151.7

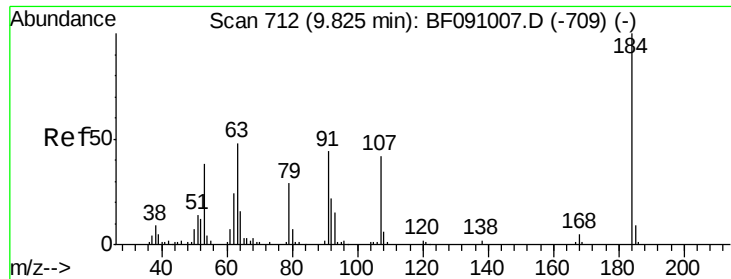


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0

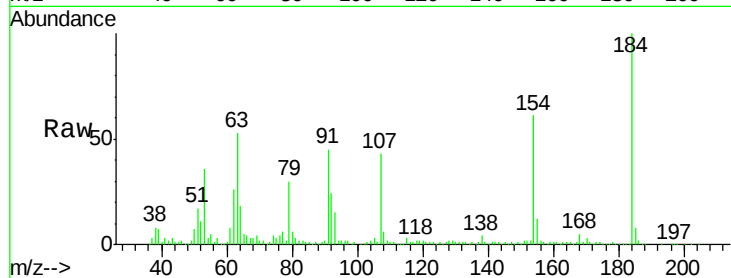




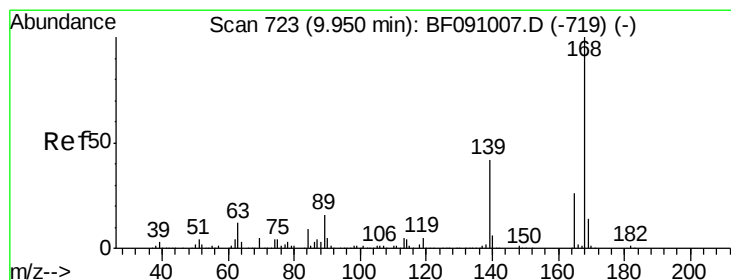
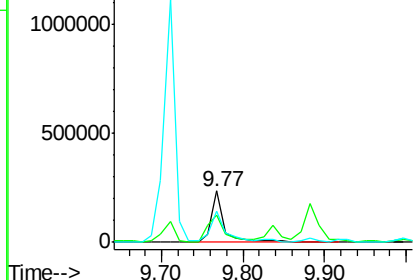
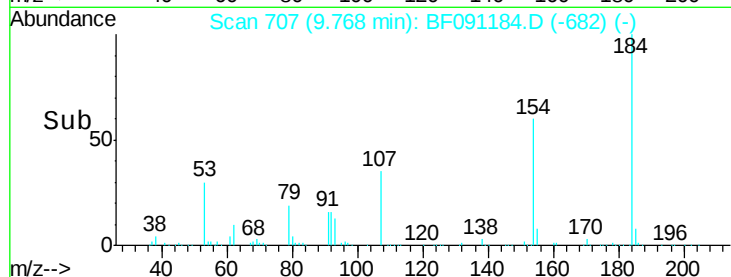
#53  
2,4-Dinitrophenol  
Concen: 93.58 ng  
RT: 9.77 min Scan# 707  
Delta R.T. -0.01 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

Tgt Ion:184 Resp: 278825  
Ion Ratio Lower Upper  
184 100  
63 53.1 45.5 68.3  
154 61.0 51.0 76.4

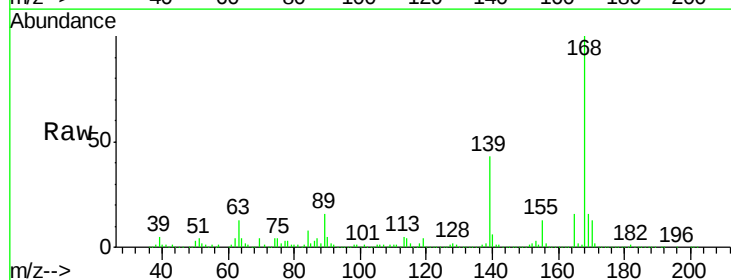


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 154.00 (153.70 to 154.70): E

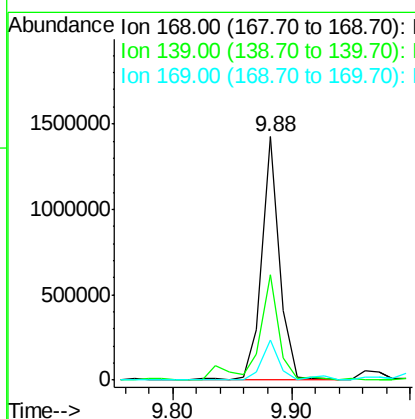
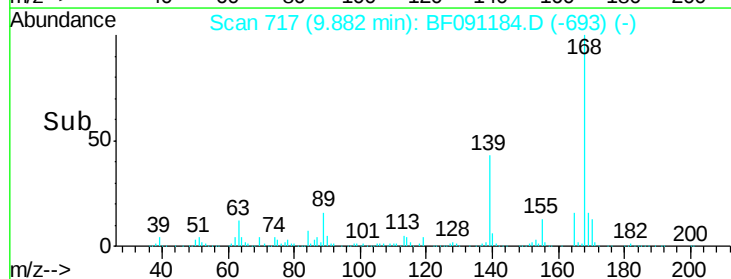


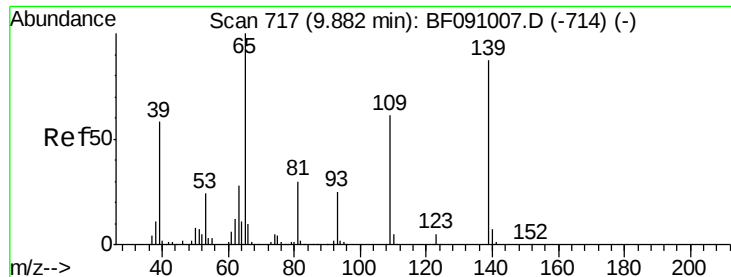
#54  
Dibenzofuran  
Concen: 53.33 ng  
RT: 9.88 min Scan# 717  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Tgt Ion:168 Resp: 1497286  
Ion Ratio Lower Upper  
168 100  
139 43.5 34.8 52.2  
169 16.4 11.4 17.2



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

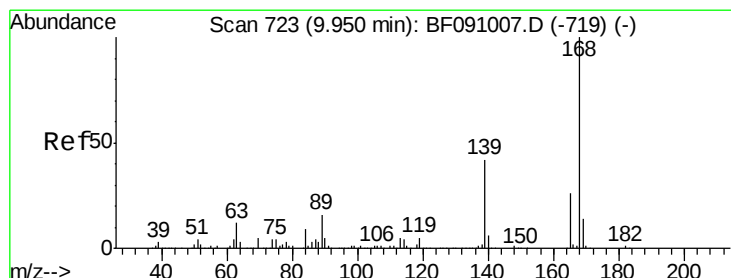
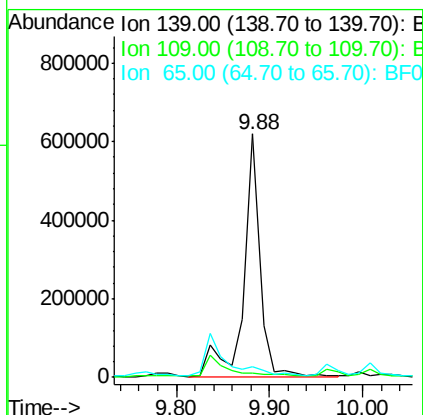
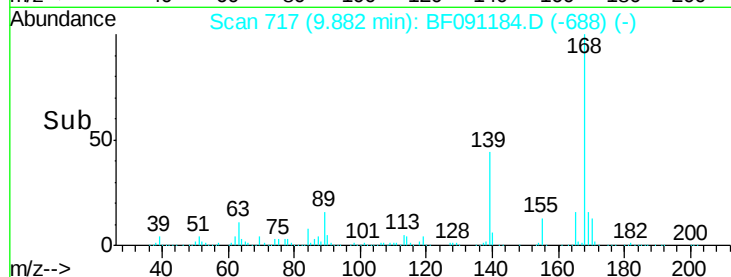
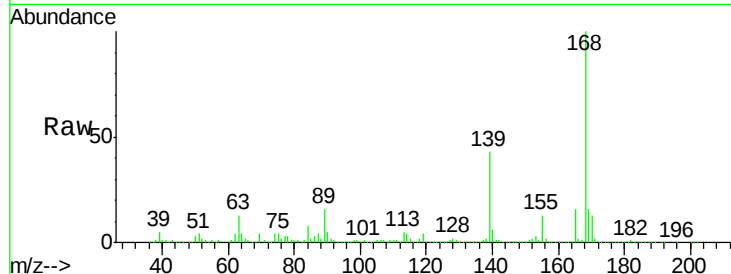




#55  
4-Nitrophenol  
Concen: 169.61 ng  
RT: 9.88 min Scan# 717  
Delta R.T. 0.03 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

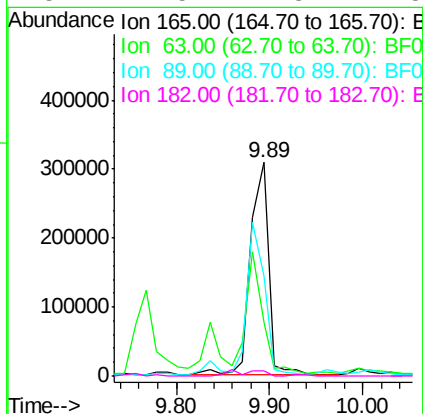
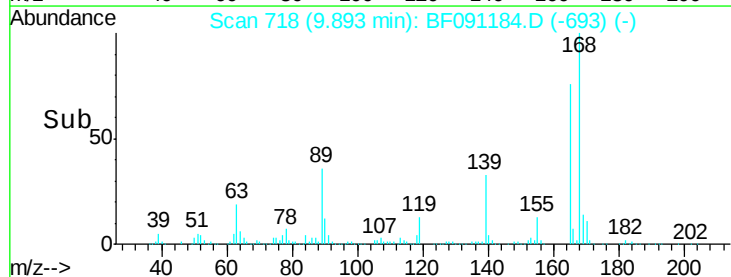
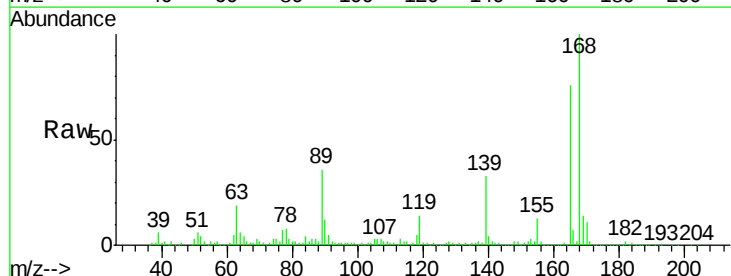
Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

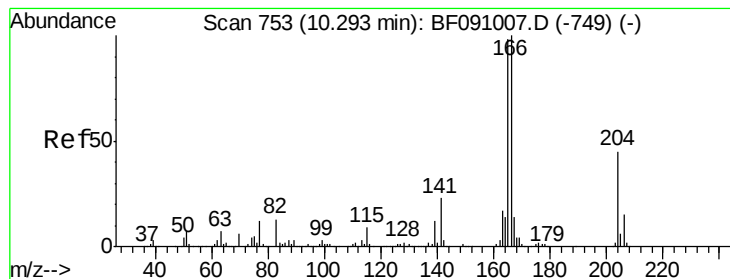
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 139     | 100   |       |        |
| 109     | 1.9   | 50.5  | 90.5#  |
| 65      | 4.5   | 97.1  | 137.1# |



#56  
2,4-Dinitrotoluene  
Concen: 61.05 ng  
RT: 9.89 min Scan# 718  
Delta R.T. -0.01 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 25.5  | 38.7  | 58.1# |
| 89      | 46.9  | 50.6  | 76.0# |
| 182     | 2.5   | 1.8   | 2.8   |





#57

Fluorene

Concen: 51.35 ng

RT: 10.22 min Scan# 747

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

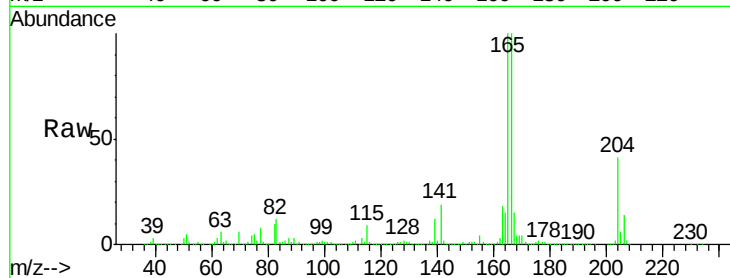
Tgt Ion:166 Resp: 1178397

Ion Ratio Lower Upper

166 100

165 99.8 78.6 118.0

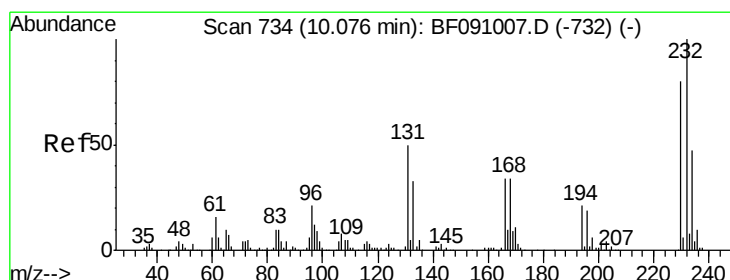
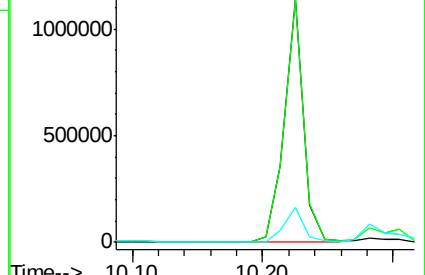
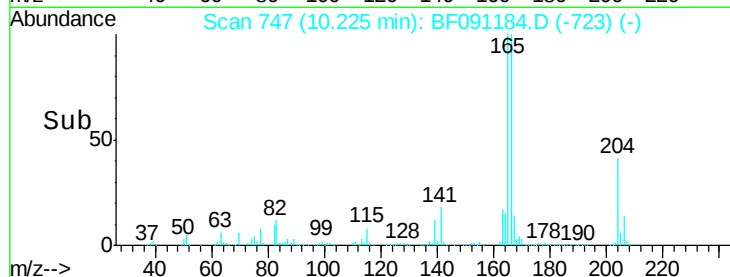
167 14.5 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#58

2,3,4,6-Tetrachlorophenol

Concen: 57.21 ng

RT: 10.01 min Scan# 728

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Tgt Ion:232 Resp: 297805

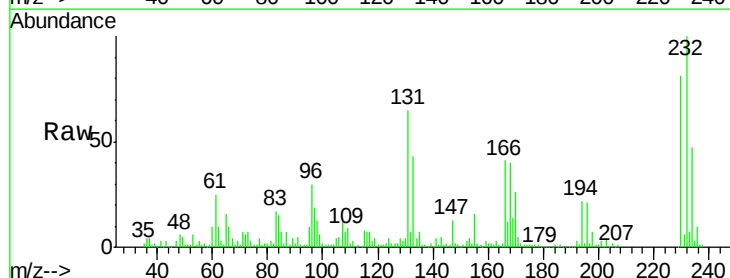
Ion Ratio Lower Upper

232 100

131 54.8 43.6 65.4

130 3.3 2.0 3.0#

166 32.8 27.4 41.2

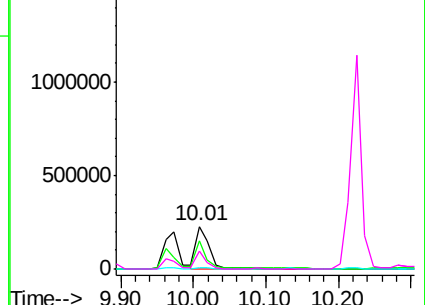
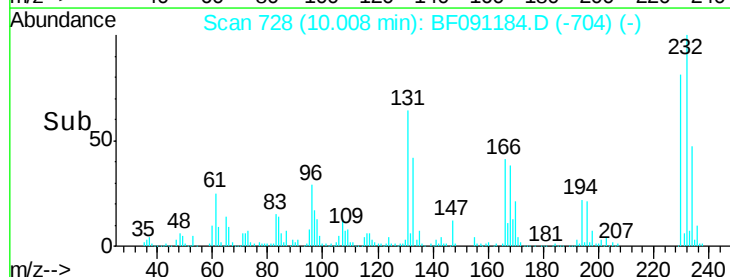


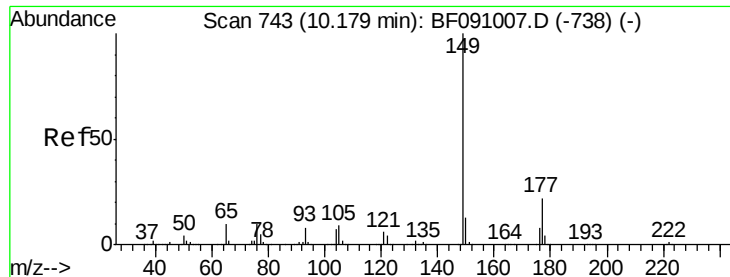
Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E

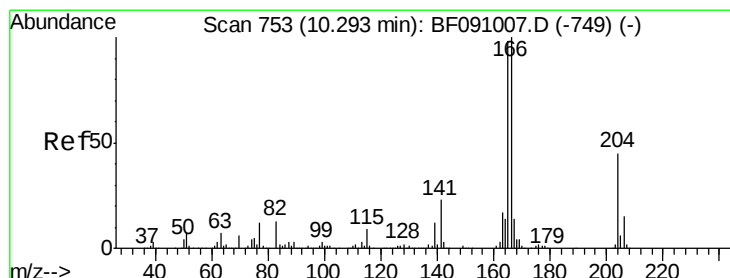
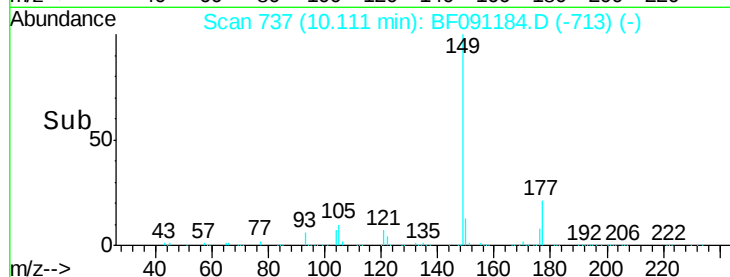
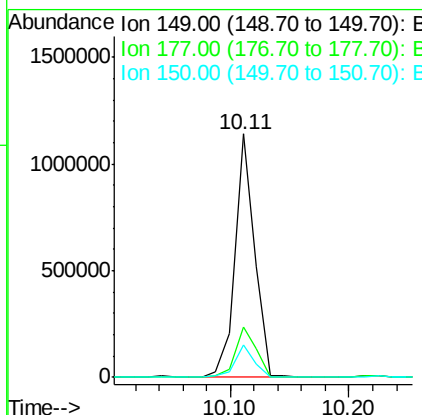
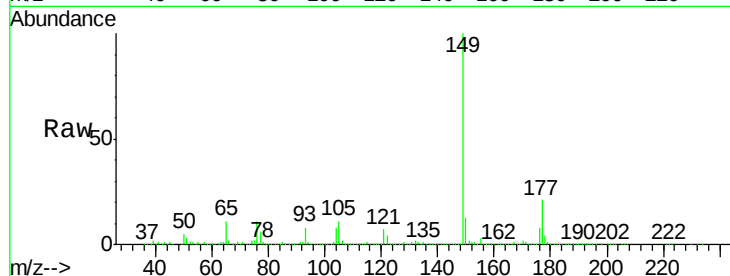




#59  
Diethylphthalate  
Concen: 50.42 ng  
RT: 10.11 min Scan# 737  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

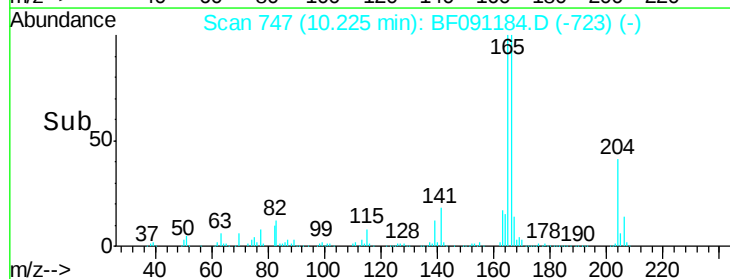
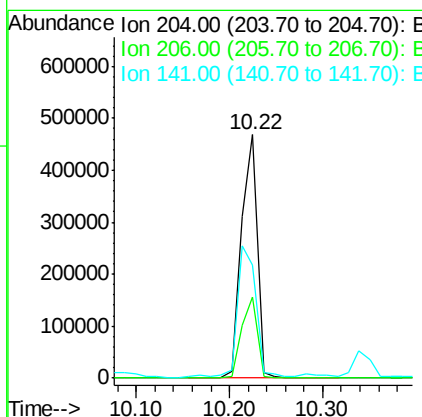
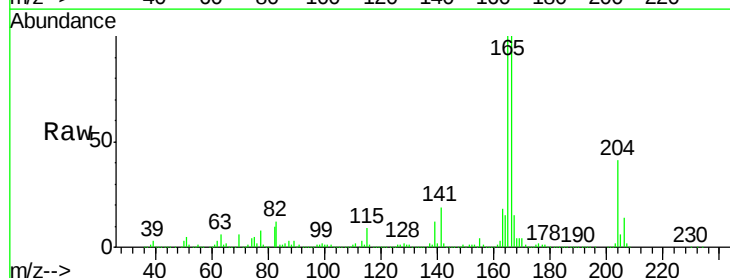
Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

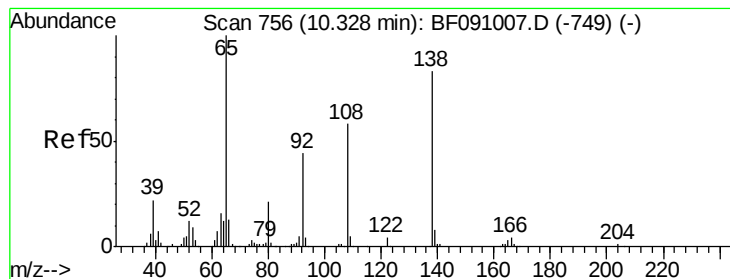
Tgt Ion:149 Resp: 1303407  
Ion Ratio Lower Upper  
149 100  
177 20.8 17.3 25.9  
150 13.2 10.3 15.5



#60  
4-Chlorophenyl-phenylether  
Concen: 53.57 ng  
RT: 10.22 min Scan# 747  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Tgt Ion:204 Resp: 559531  
Ion Ratio Lower Upper  
204 100  
206 33.5 27.1 40.7  
141 46.4 40.1 60.1

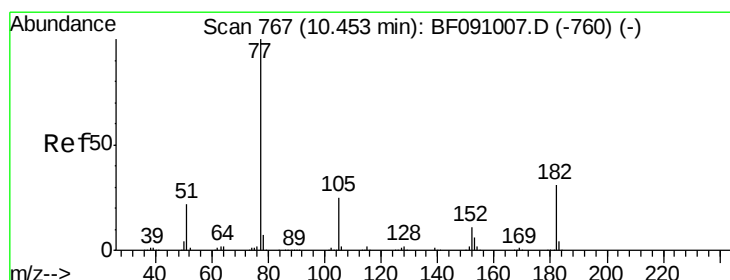
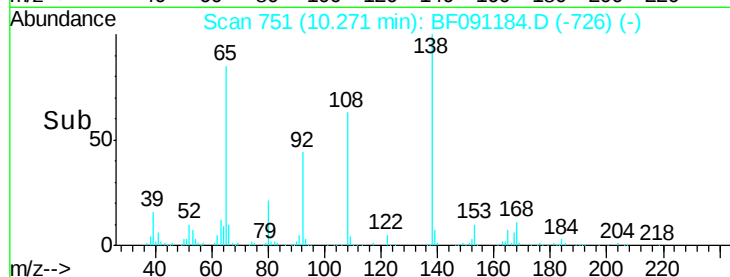
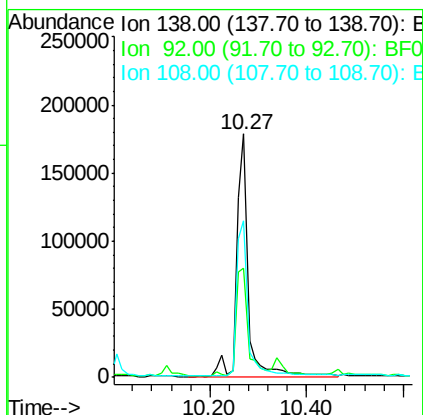
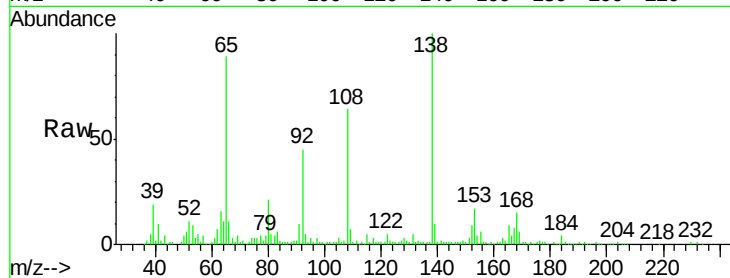




#61  
4-Nitroaniline  
Concen: 44.63 ng  
RT: 10.27 min Scan# 751  
Delta R.T. -0.01 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

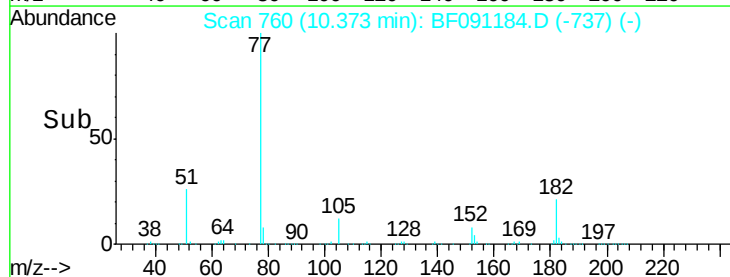
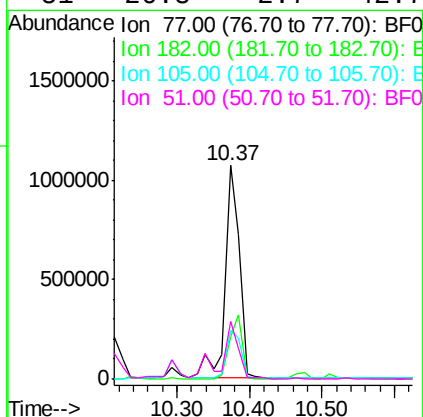
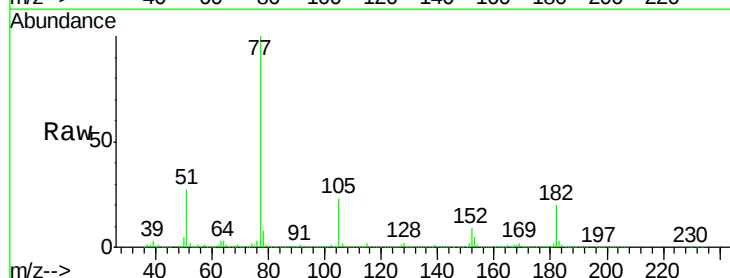
Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

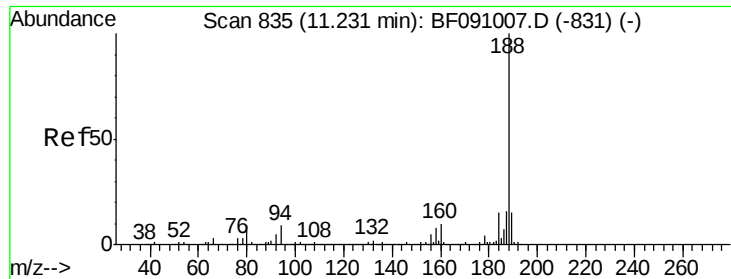
Tgt Ion:138 Resp: 289304  
Ion Ratio Lower Upper  
138 100  
92 44.7 32.5 72.5  
108 64.2 49.4 89.4



#62  
Azobenzene  
Concen: 48.13 ng  
RT: 10.37 min Scan# 760  
Delta R.T. -0.03 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Tgt Ion: 77 Resp: 1464607  
Ion Ratio Lower Upper  
77 100  
182 19.9 11.0 51.0  
105 23.0 5.6 45.6  
51 26.8 2.7 42.7

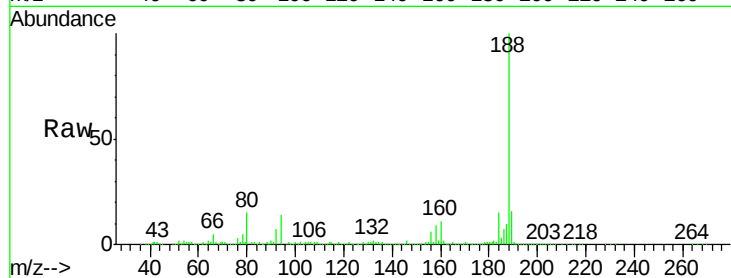




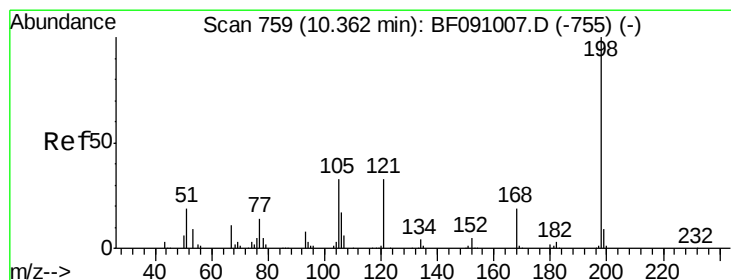
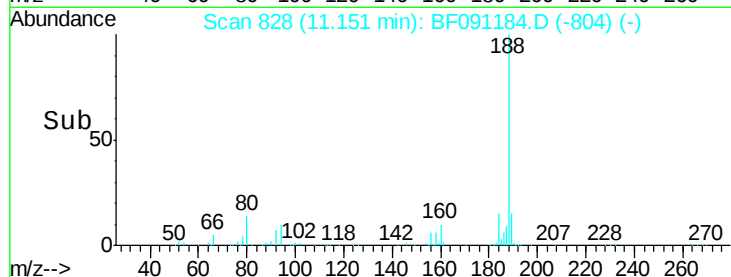
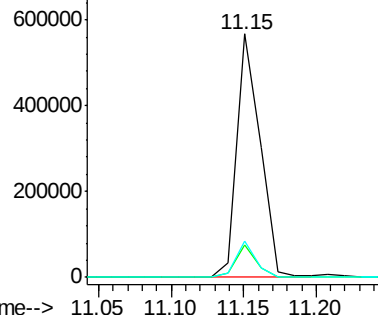
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.15 min Scan# 828  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

Tgt Ion:188 Resp: 632609  
Ion Ratio Lower Upper  
188 100  
94 13.5 7.0 10.4#  
80 14.9 7.5 11.3#

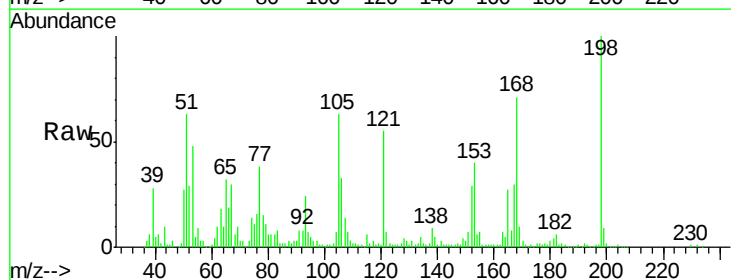


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

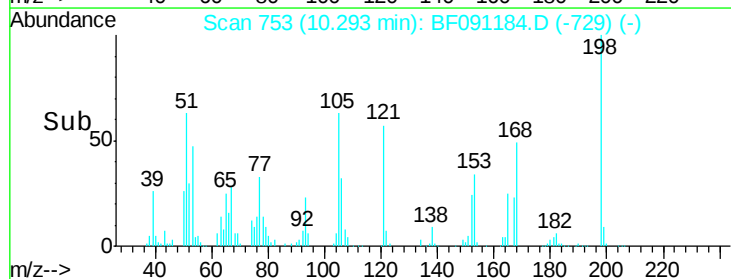
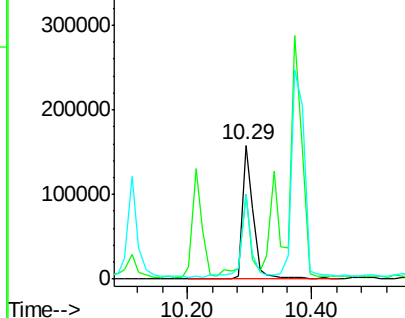


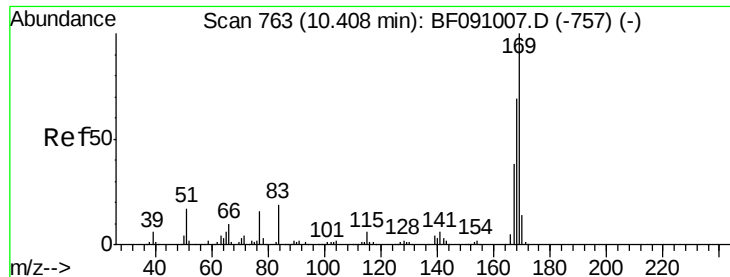
#64  
4,6-Dinitro-2-methylphenol  
Concen: 49.45 ng  
RT: 10.29 min Scan# 753  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Tgt Ion:198 Resp: 191539  
Ion Ratio Lower Upper  
198 100  
51 63.2 5.9 45.9#  
105 63.1 13.8 53.8#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 105.00 (104.70 to 105.70): E

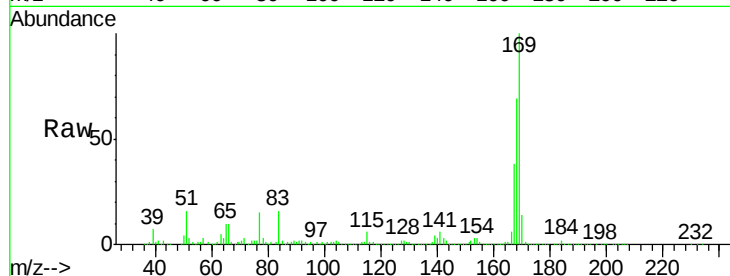




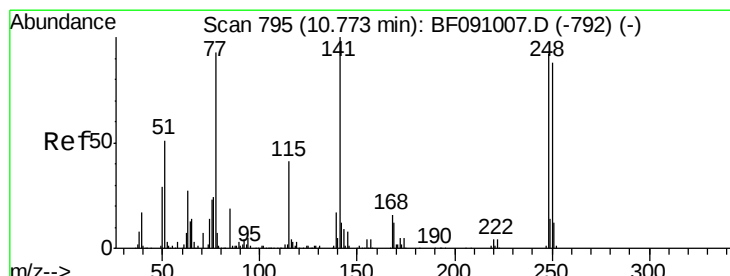
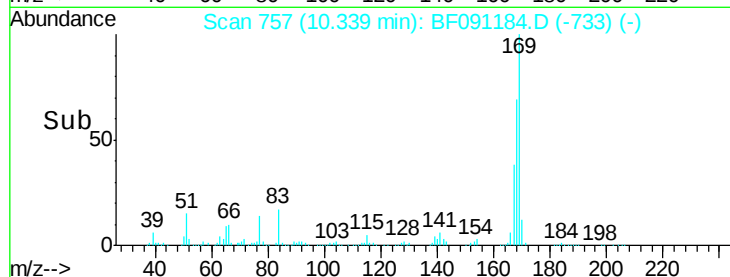
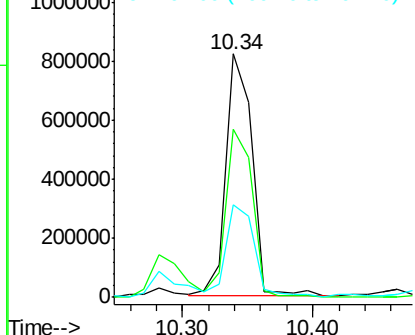
#65  
n-Nitrosodiphenylamine  
Concen: 56.61 ng  
RT: 10.34 min Scan# 757  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

Tgt Ion:169 Resp: 1138216  
Ion Ratio Lower Upper  
169 100  
168 68.9 55.3 82.9  
167 38.2 30.3 45.5

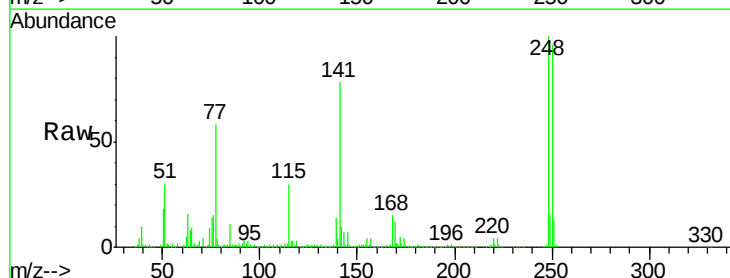


Abundance Ion 169.00 (168.70 to 169.70): E  
Ion 168.00 (167.70 to 168.70): E  
Ion 167.00 (166.70 to 167.70): E

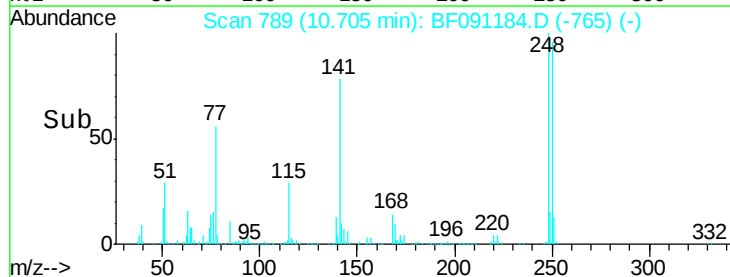
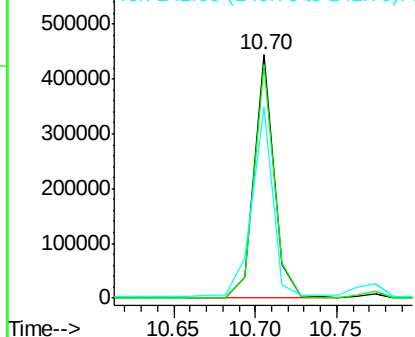


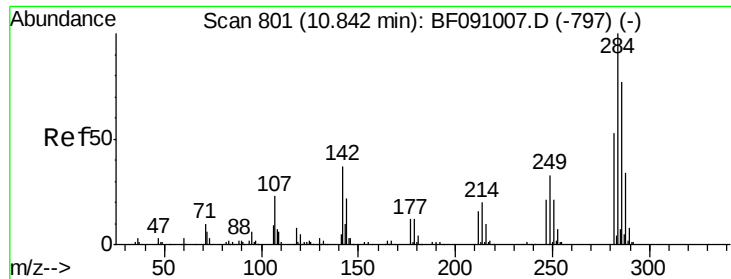
#66  
4-Bromophenyl-phenylether  
Concen: 57.81 ng  
RT: 10.70 min Scan# 789  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Tgt Ion:248 Resp: 380412  
Ion Ratio Lower Upper  
248 100  
250 95.8 76.3 114.5  
141 78.4 86.8 130.2#



Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

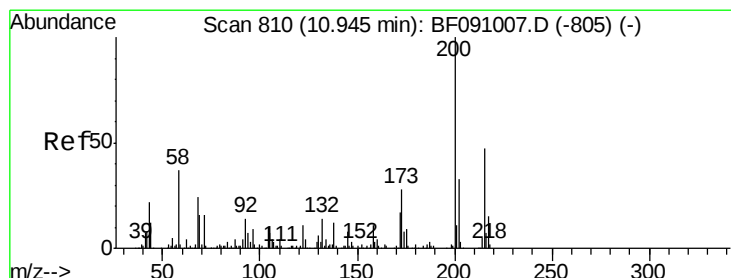
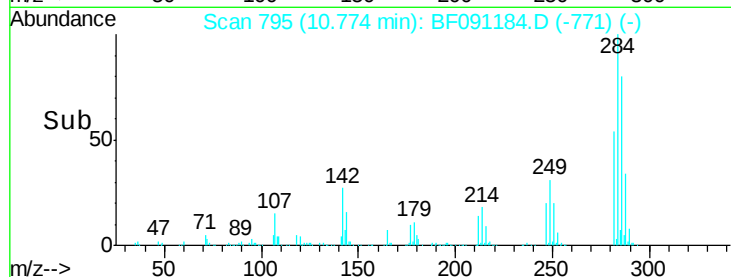
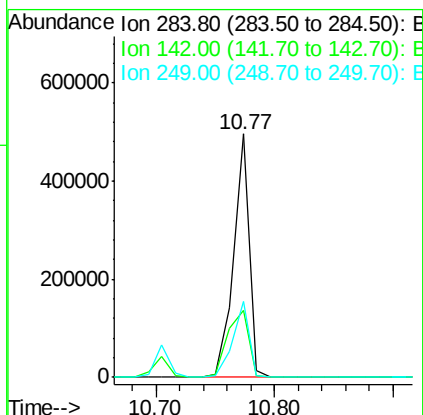
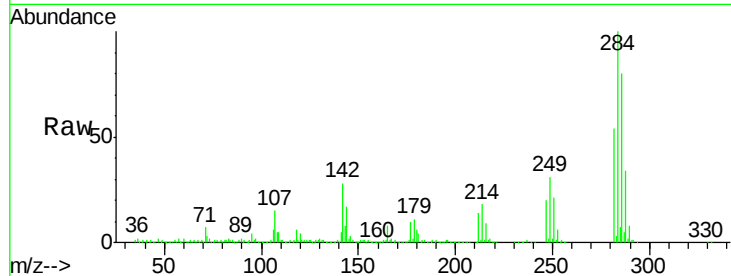




#67  
Hexachlorobenzene  
Concen: 62.32 ng  
RT: 10.77 min Scan# 795  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

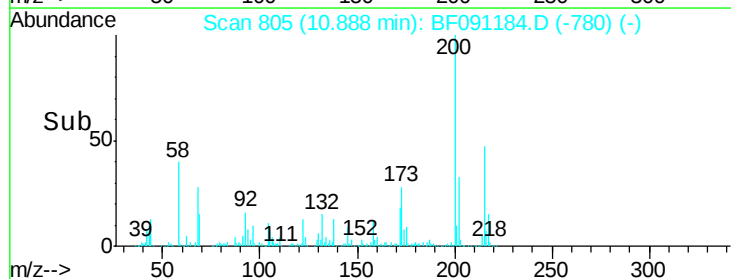
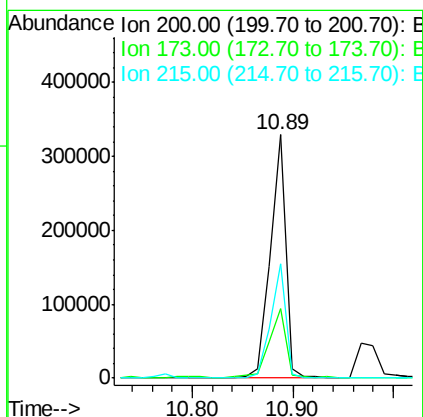
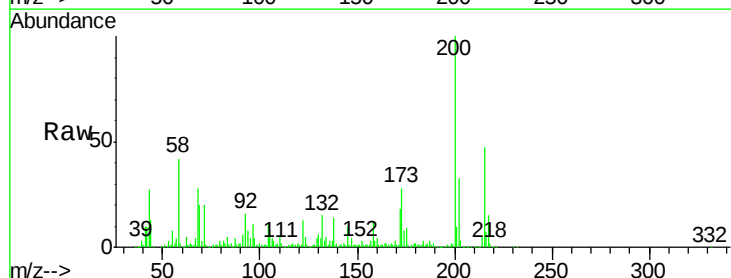
Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

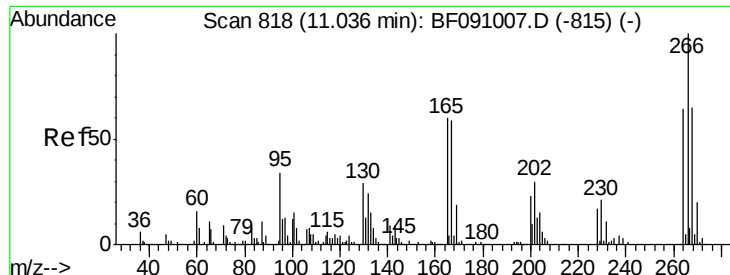
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 27.6  | 29.9  | 44.9# |
| 249     | 31.3  | 26.6  | 39.8  |



#68  
Atrazine  
Concen: 60.50 ng  
RT: 10.89 min Scan# 805  
Delta R.T. -0.01 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 28.4  | 8.1   | 48.1  |
| 215     | 47.2  | 27.3  | 67.3  |

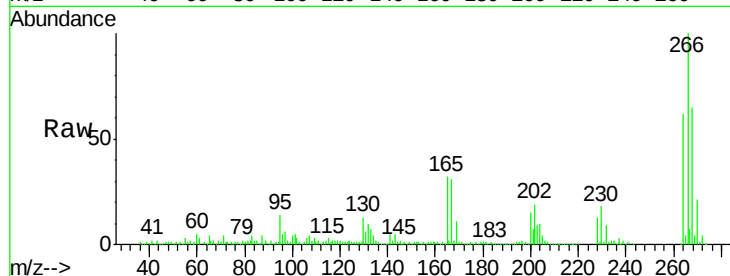




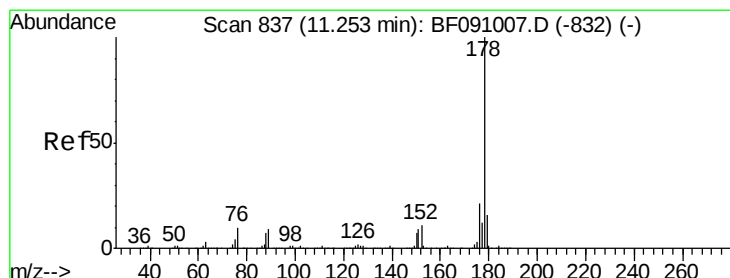
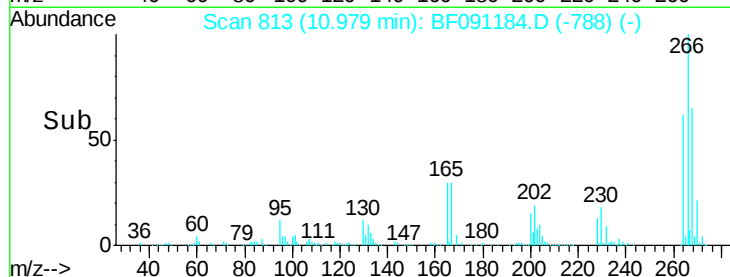
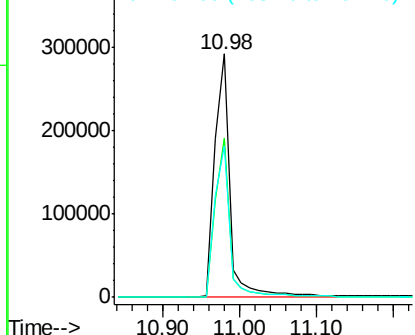
#69  
 Pentachlorophenol  
 Concen: 125.15 ng  
 RT: 10.98 min Scan# 813  
 Delta R.T. -0.01 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

Tgt Ion:266 Resp: 402282  
 Ion Ratio Lower Upper  
 266 100  
 268 65.5 52.1 78.1  
 264 62.3 51.1 76.7

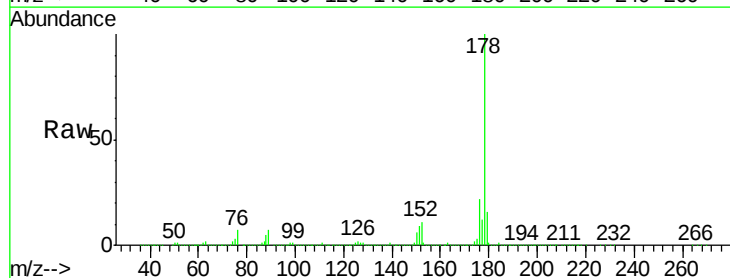


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

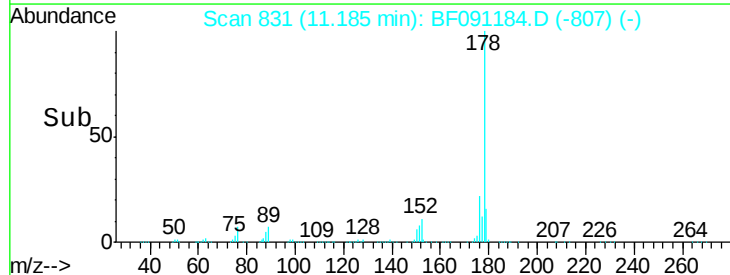
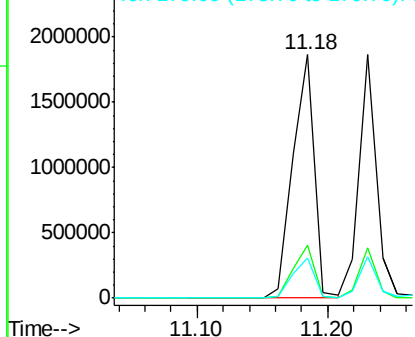


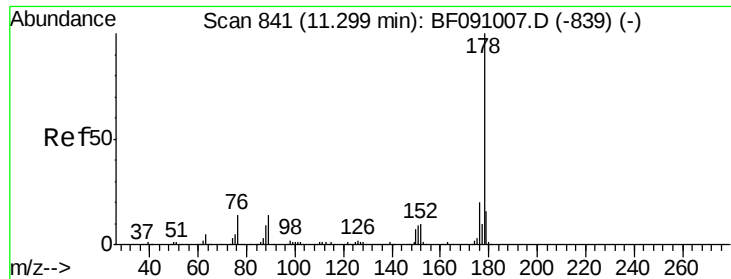
#70  
 Phenanthrene  
 Concen: 63.56 ng  
 RT: 11.18 min Scan# 831  
 Delta R.T. -0.02 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Tgt Ion:178 Resp: 2137577  
 Ion Ratio Lower Upper  
 178 100  
 176 21.6 16.6 25.0  
 179 16.4 12.9 19.3



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

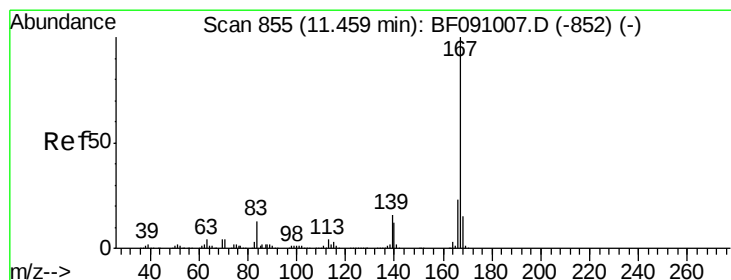
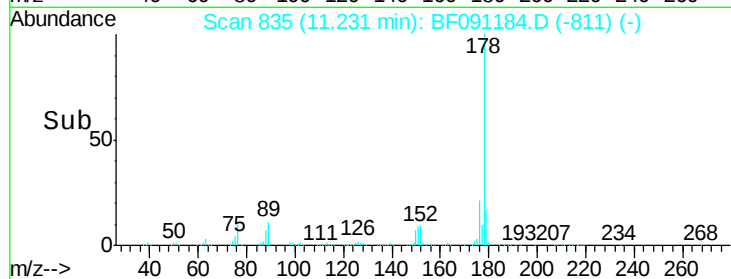
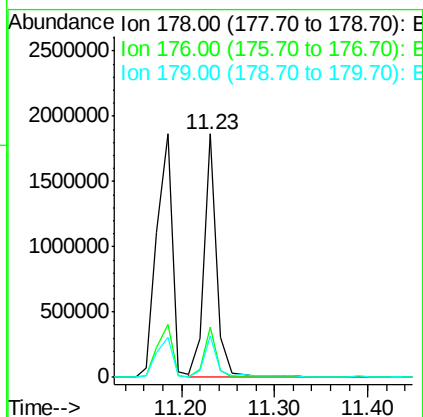
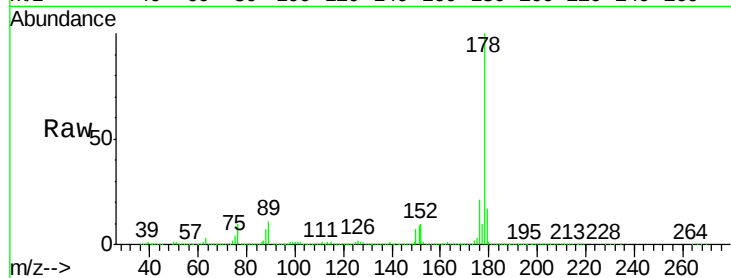




#71  
 Anthracene  
 Concen: 49.04 ng  
 RT: 11.23 min Scan# 835  
 Delta R.T. -0.02 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

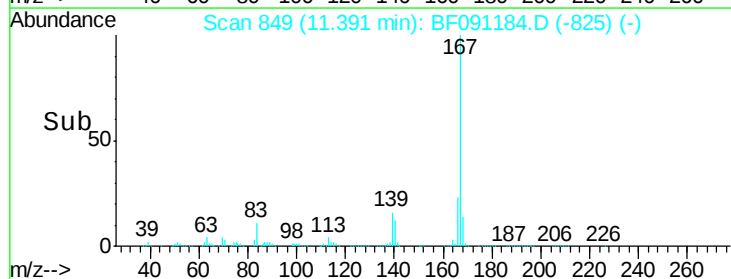
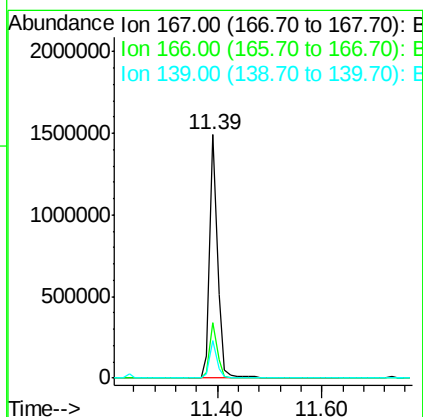
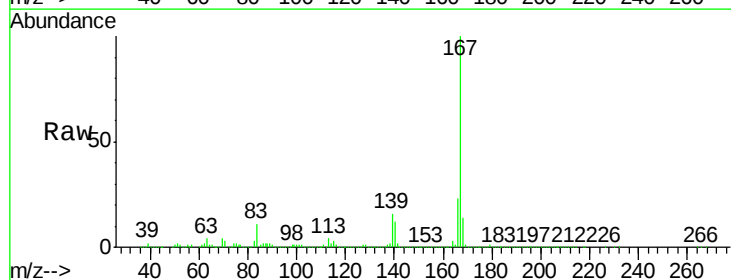
Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

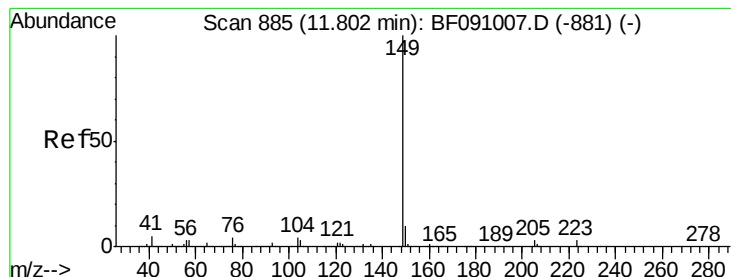
Tgt Ion:178 Resp: 1753409  
 Ion Ratio Lower Upper  
 178 100  
 176 20.9 16.0 24.0  
 179 16.8 13.0 19.6



#72  
 Carbazole  
 Concen: 48.34 ng  
 RT: 11.39 min Scan# 849  
 Delta R.T. -0.02 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Tgt Ion:167 Resp: 1557431  
 Ion Ratio Lower Upper  
 167 100  
 166 23.0 18.0 27.0  
 139 15.6 12.6 18.8





#73

Di-n-butylphthalate

Concen: 54.57 ng

RT: 11.73 min Scan# 879

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

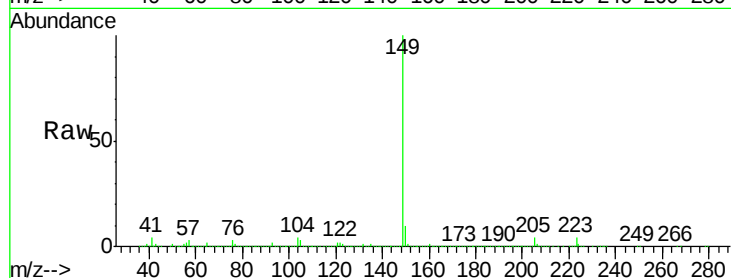
Tgt Ion:149 Resp: 2211457

Ion Ratio Lower Upper

149 100

150 9.7 7.7 11.5

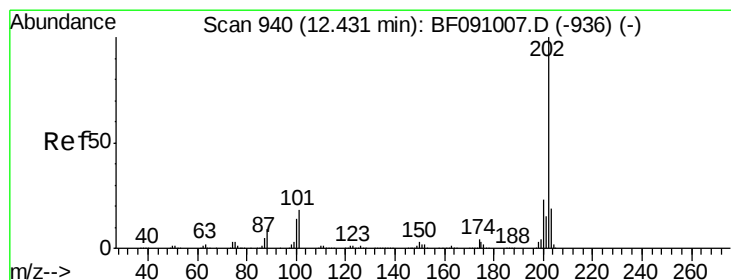
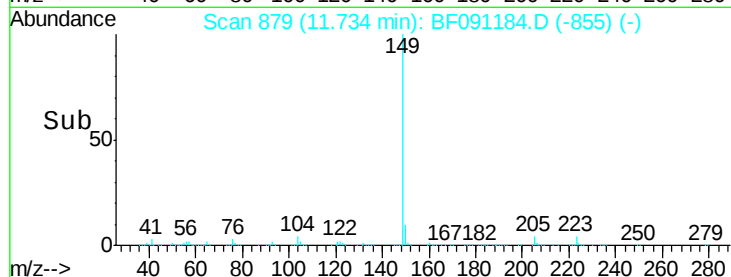
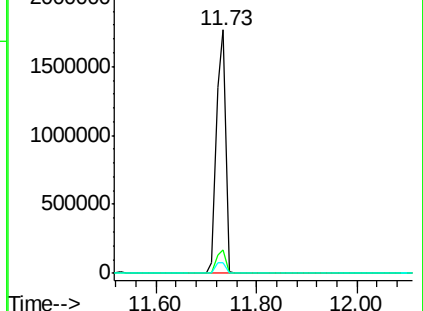
104 4.3 3.6 5.4



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 50.32 ng

RT: 12.36 min Scan# 934

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

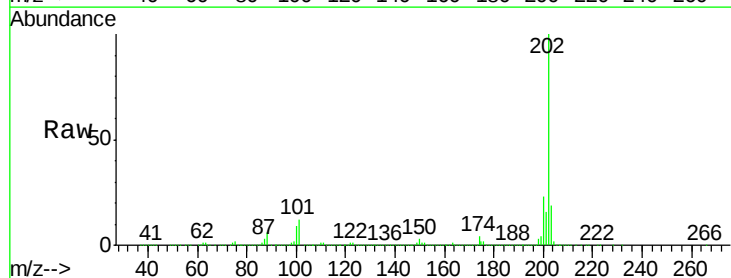
Tgt Ion:202 Resp: 1755058

Ion Ratio Lower Upper

202 100

101 11.6 0.0 37.6

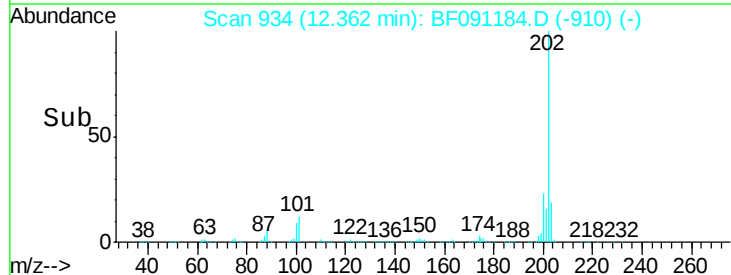
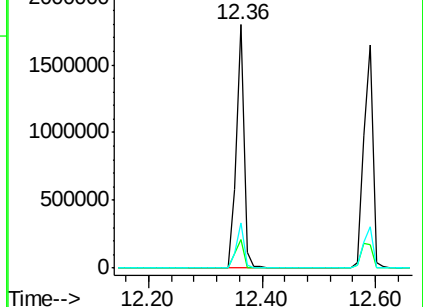
203 18.8 0.0 38.6

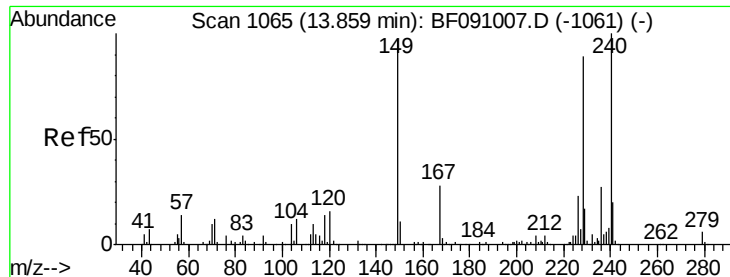


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.79 min Scan# 1059

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

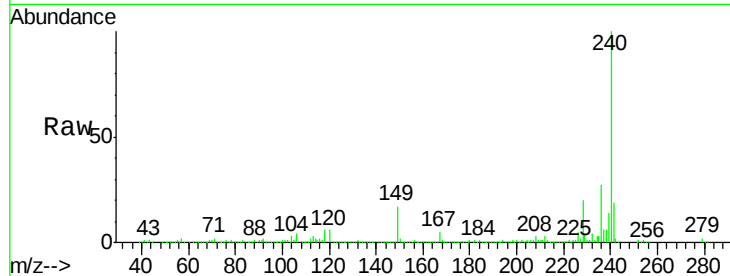
Tgt Ion:240 Resp: 453388

Ion Ratio Lower Upper

240 100

120 6.3 12.9 19.3#

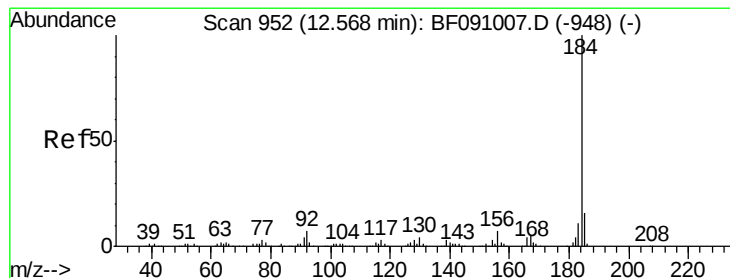
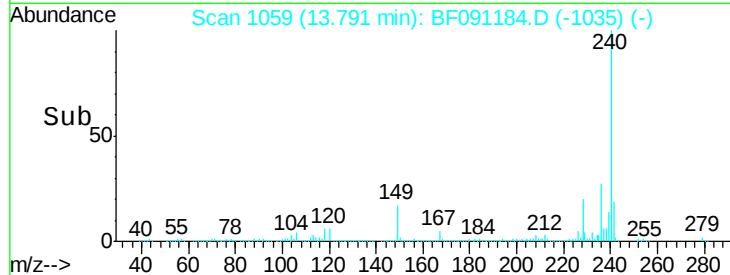
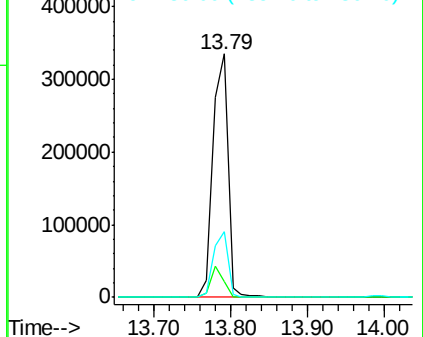
236 27.2 21.9 32.9



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 42.66 ng

RT: 12.49 min Scan# 945

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

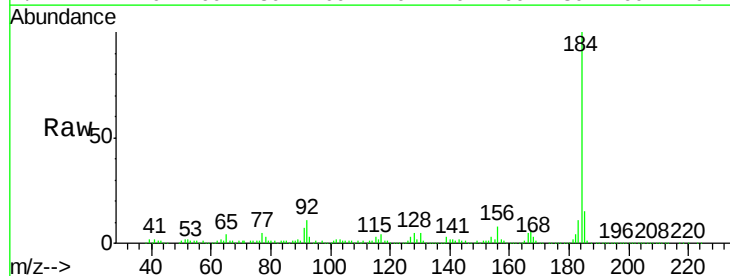
Tgt Ion:184 Resp: 432143

Ion Ratio Lower Upper

184 100

185 15.3 13.0 19.4

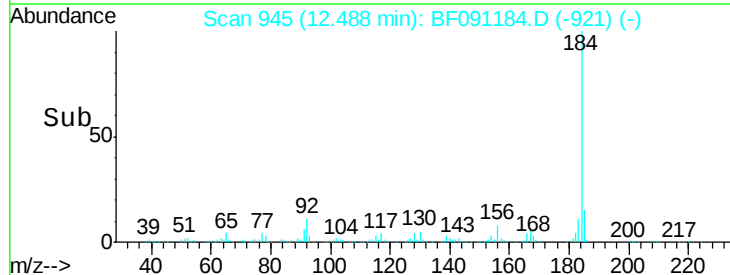
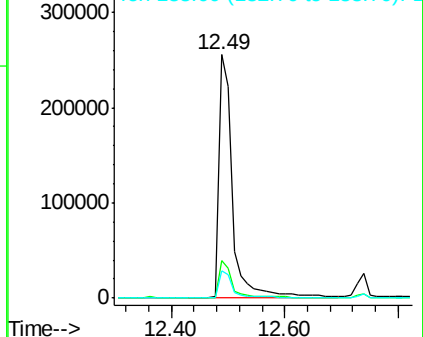
183 11.3 8.7 13.1

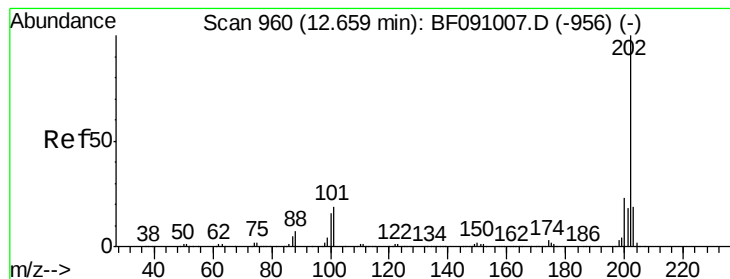


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pyrene

Concen: 62.92 ng

RT: 12.59 min Scan# 954

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

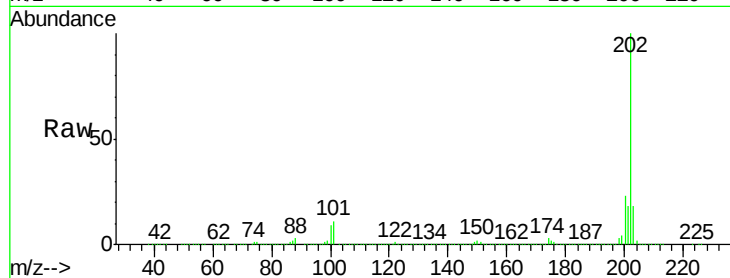
Tgt Ion:202 Resp: 1868292

Ion Ratio Lower Upper

202 100

200 23.1 18.4 27.6

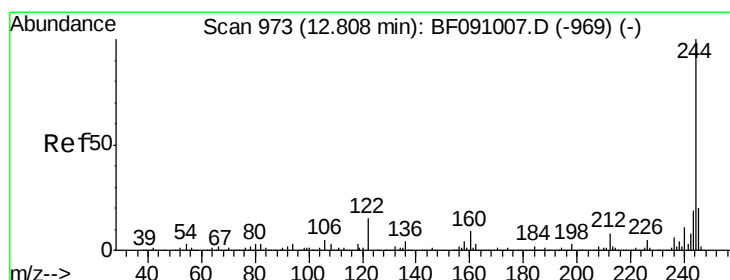
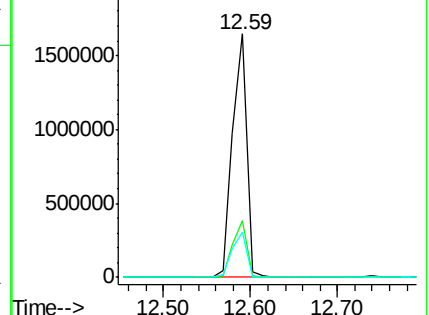
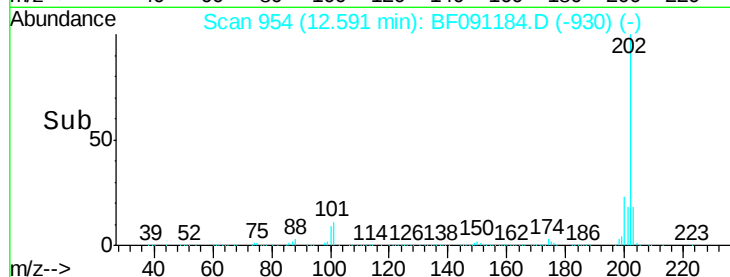
203 18.3 15.0 22.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 112.24 ng

RT: 12.74 min Scan# 967

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

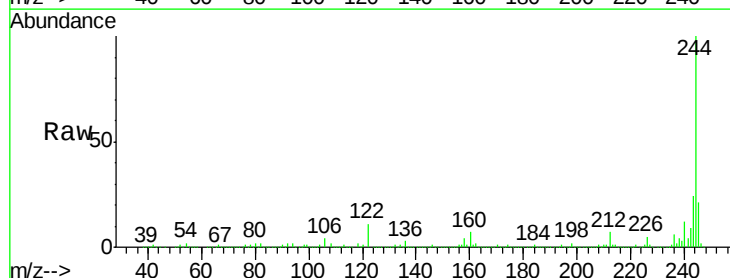
Tgt Ion:244 Resp: 2039221

Ion Ratio Lower Upper

244 100

212 7.3 6.4 9.6

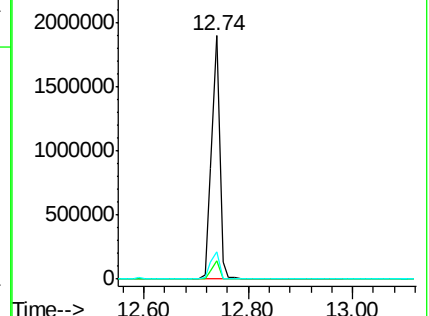
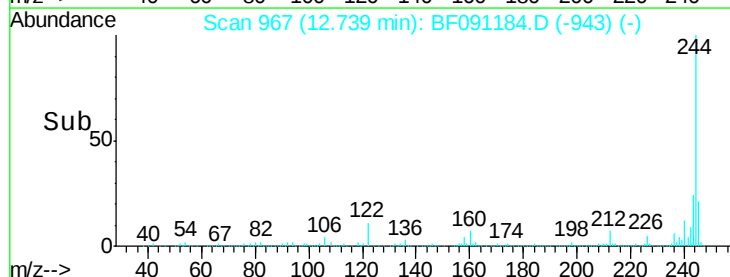
122 11.0 12.3 18.5

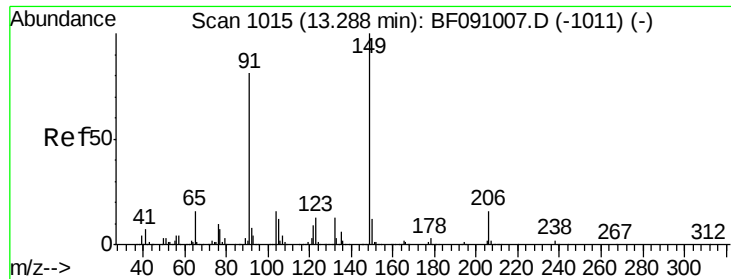


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

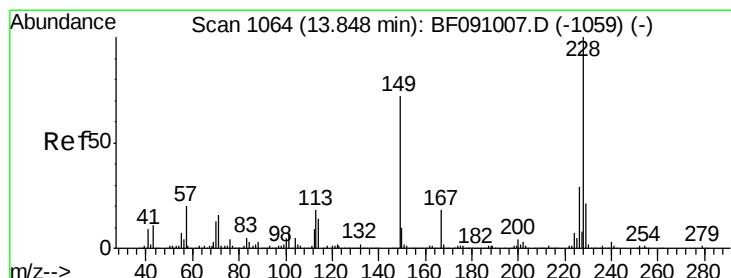
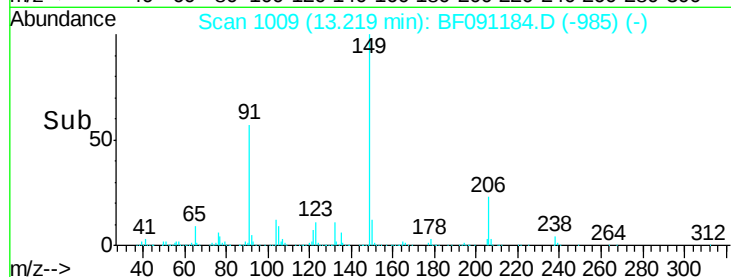
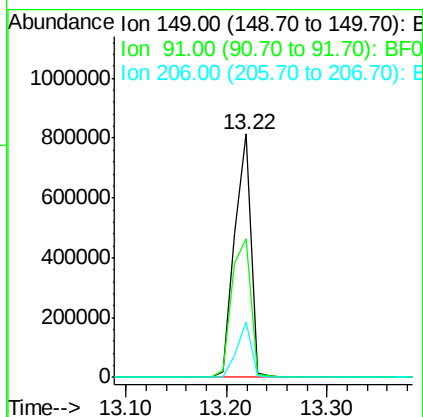
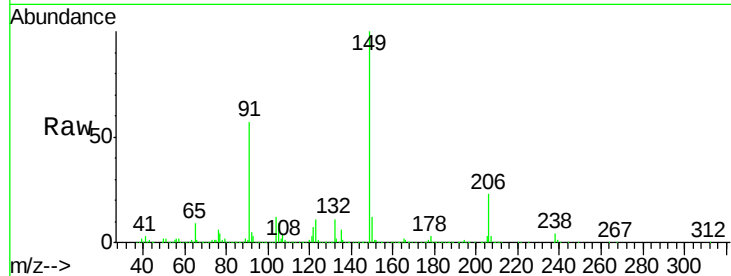




#79  
Butylbenzylphthalate  
Concen: 64.29 ng  
RT: 13.22 min Scan# 1009  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

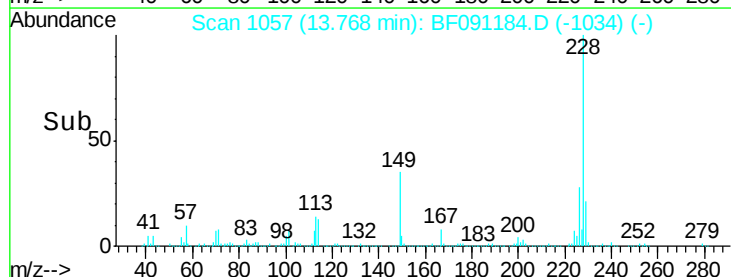
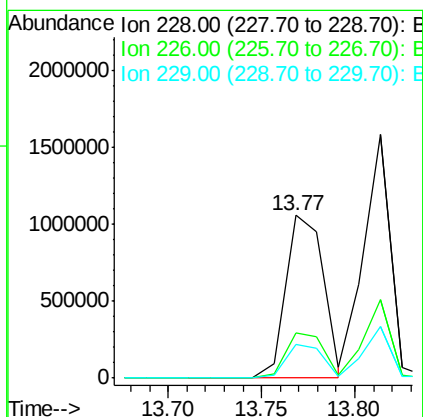
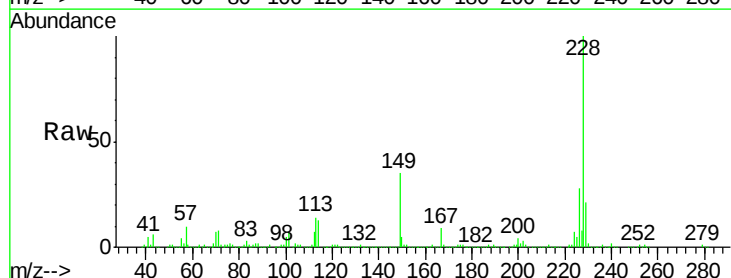
Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

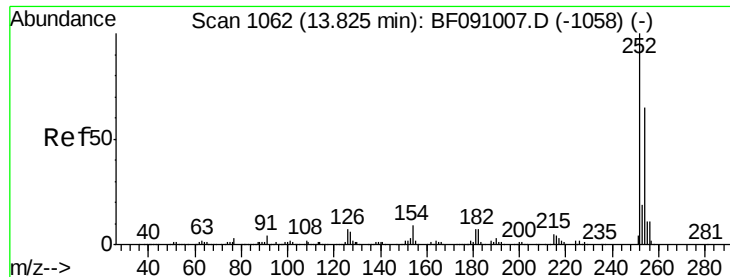
Tgt Ion:149 Resp: 913047  
Ion Ratio Lower Upper  
149 100  
91 57.1 65.0 97.4#  
206 22.7 12.5 18.7#



#80  
Benzo(a)anthracene  
Concen: 57.89 ng  
RT: 13.77 min Scan# 1057  
Delta R.T. -0.03 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Tgt Ion:228 Resp: 1490227  
Ion Ratio Lower Upper  
228 100  
226 28.0 23.0 34.6  
229 20.8 16.6 24.8

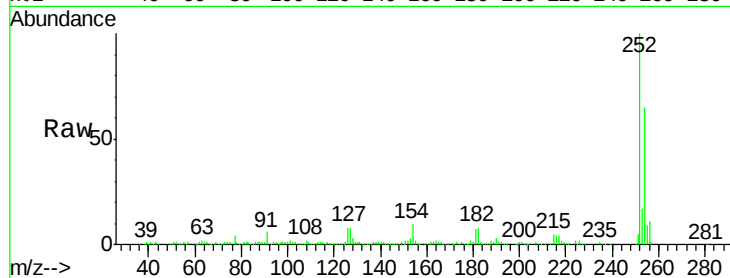




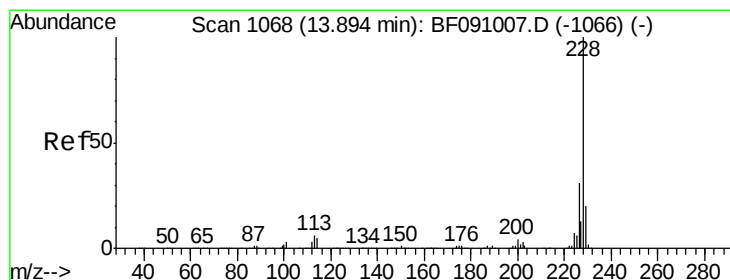
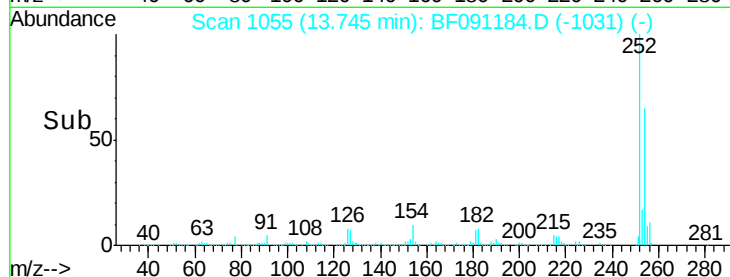
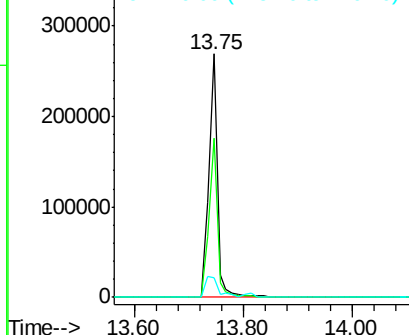
#81  
 3,3'-Dichlorobenzidine  
 Concen: 32.93 ng  
 RT: 13.75 min Scan# 1055  
 Delta R.T. -0.02 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

Tgt Ion:252 Resp: 297834  
 Ion Ratio Lower Upper  
 252 100  
 254 65.3 52.0 78.0  
 126 7.9 5.4 8.2

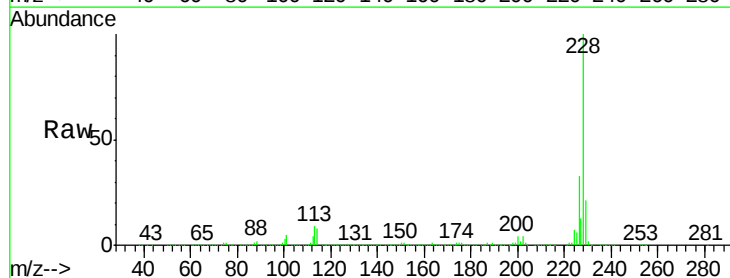


Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 254.00 (253.70 to 254.70): E  
 Ion 126.00 (125.70 to 126.70): E

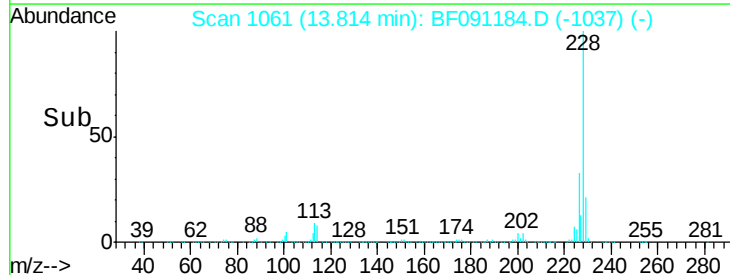
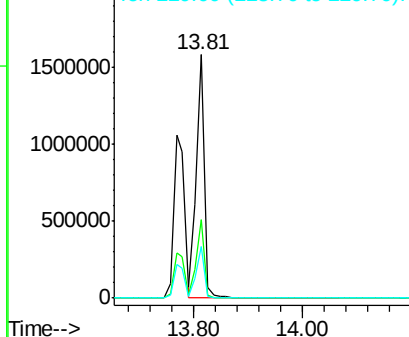


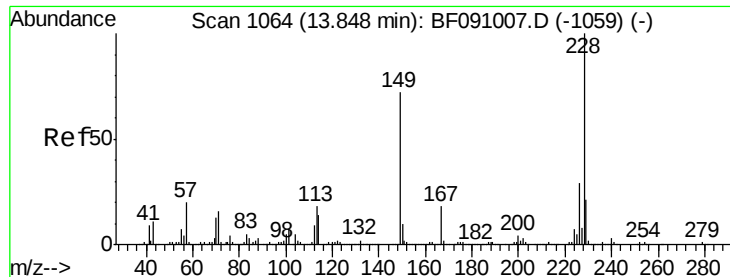
#82  
 Chrysene  
 Concen: 63.01 ng  
 RT: 13.81 min Scan# 1061  
 Delta R.T. -0.02 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Tgt Ion:228 Resp: 1599302  
 Ion Ratio Lower Upper  
 228 100  
 226 32.5 24.9 37.3  
 229 21.0 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 54.85 ng

RT: 13.78 min Scan# 1058

Delta R.T. -0.02 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

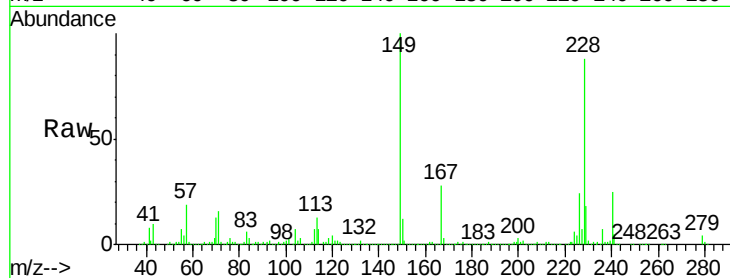
Tgt Ion:149 Resp: 1054159

Ion Ratio Lower Upper

149 100

167 28.5 20.4 30.6

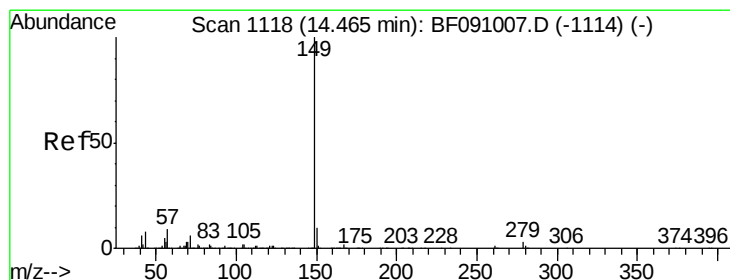
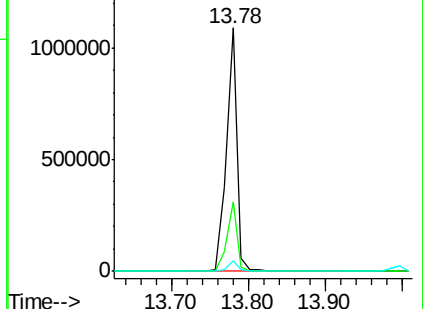
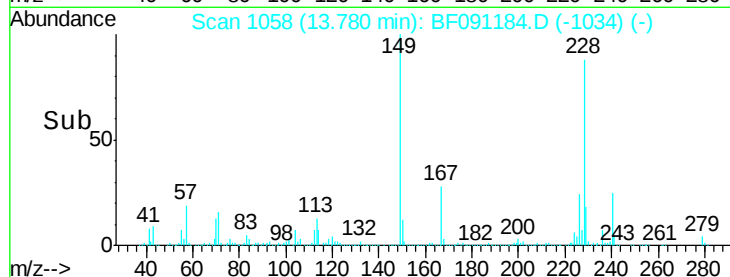
279 4.2 1.6 2.4#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84

Di-n-octyl phthalate

Concen: 57.47 ng

RT: 14.39 min Scan# 1111

Delta R.T. -0.03 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

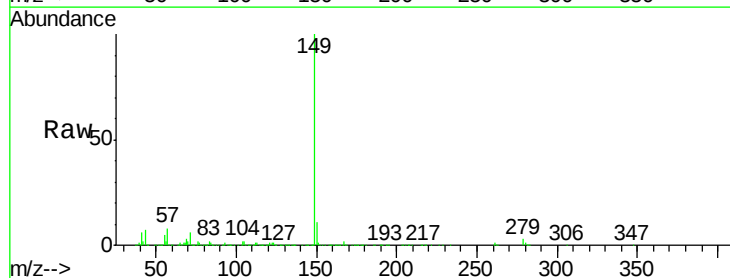
Tgt Ion:149 Resp: 1816075

Ion Ratio Lower Upper

149 100

167 1.6 1.2 1.8

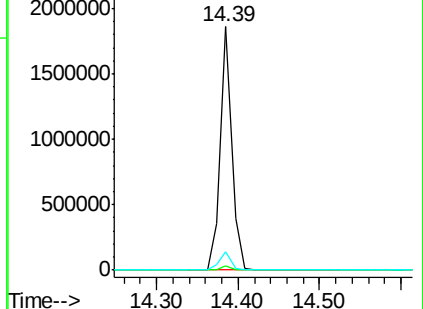
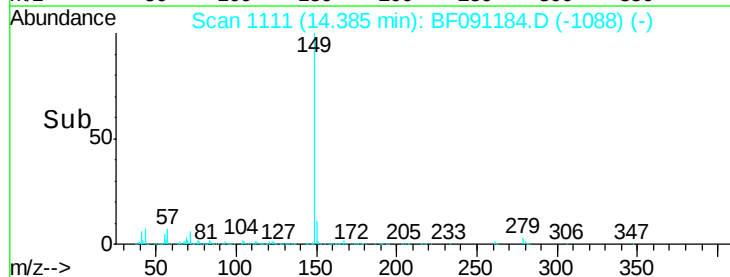
43 7.3 8.2 12.4#

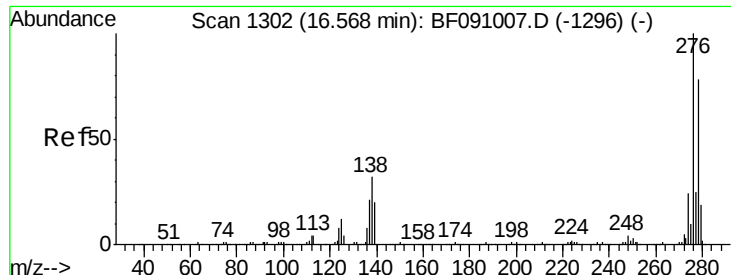


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0

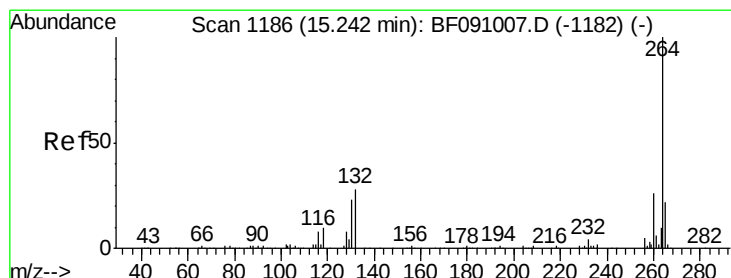
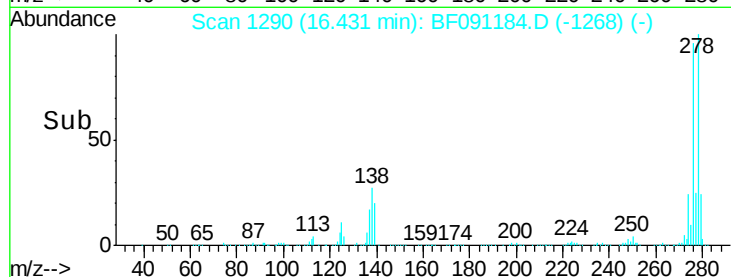
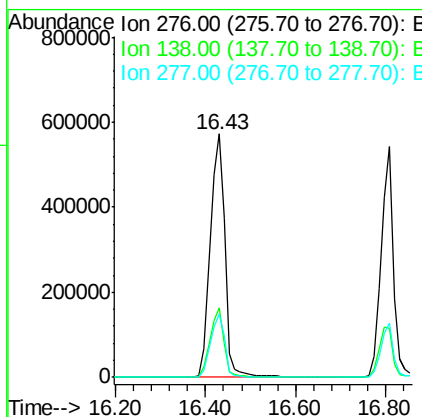
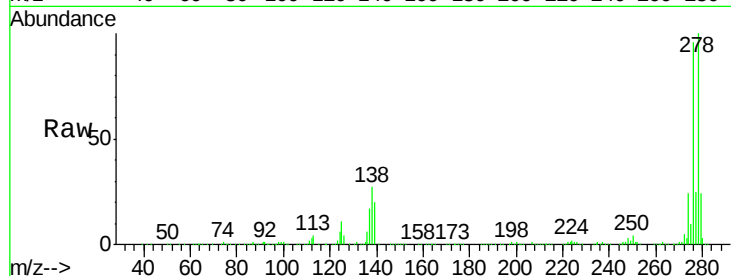




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 61.95 ng  
 RT: 16.43 min Scan# 1290  
 Delta R.T. -0.05 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

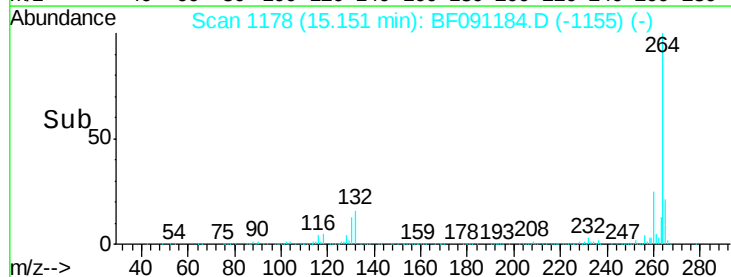
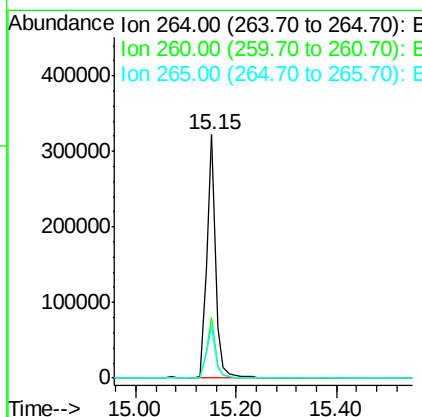
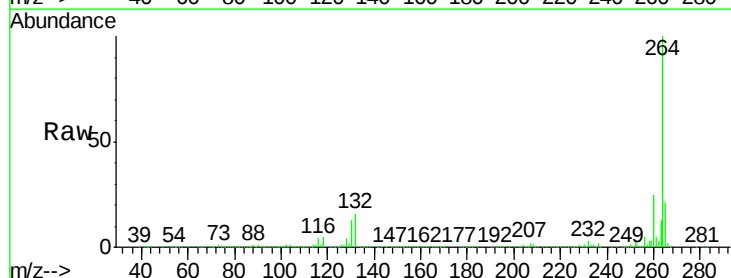
Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19023041MSD

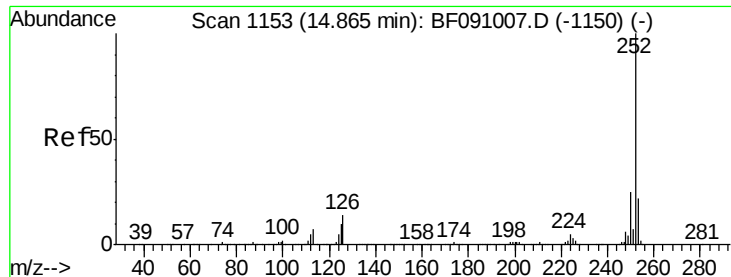
Tgt Ion: 276 Resp: 1304694  
 Ion Ratio Lower Upper  
 276 100  
 138 27.2 26.0 39.0  
 277 25.4 20.1 30.1



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.15 min Scan# 1178  
 Delta R.T. -0.03 min  
 Lab File: BF091184.D  
 Acq: 15 Nov 2016 17:43

Tgt Ion: 264 Resp: 391579  
 Ion Ratio Lower Upper  
 264 100  
 260 24.8 20.6 30.8  
 265 21.4 17.8 26.8

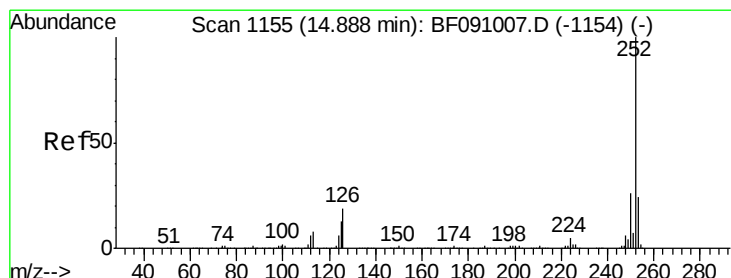
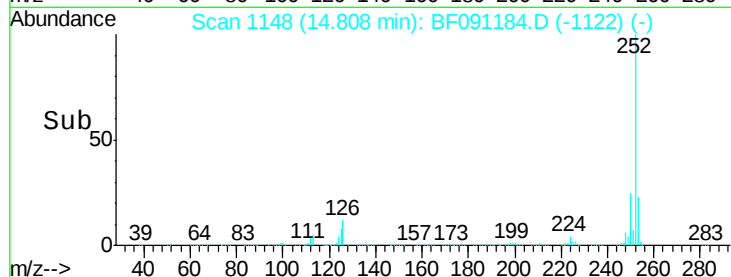
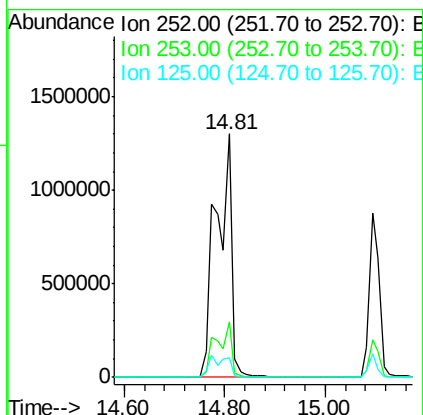
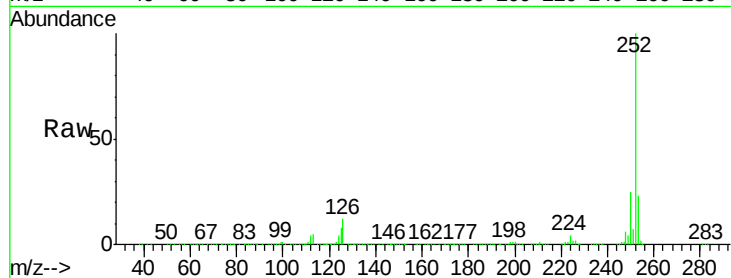




#87  
Benzo(b)fluoranthene  
Concen: 106.29 ng  
RT: 14.81 min Scan# 1148  
Delta R.T. 0.00 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

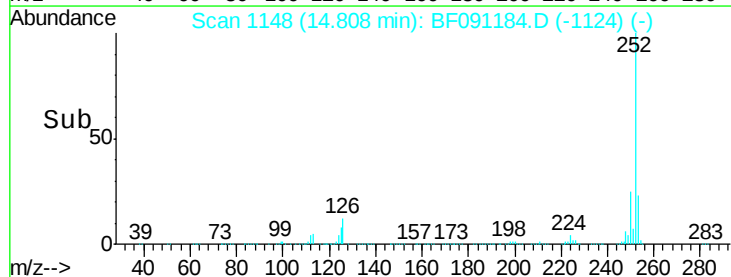
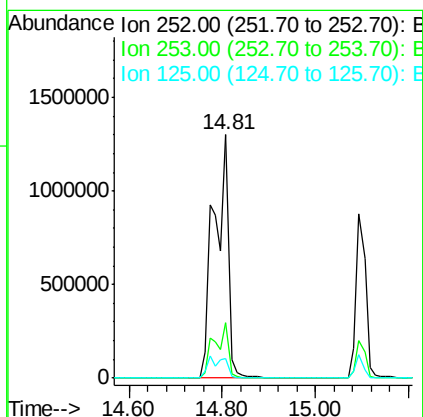
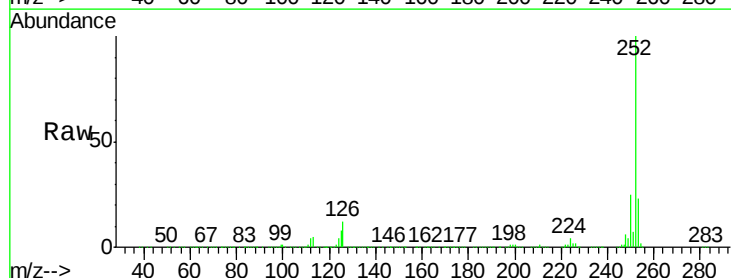
Instrument :  
BNA\_F  
ClientSampleId :  
C19023041MSD

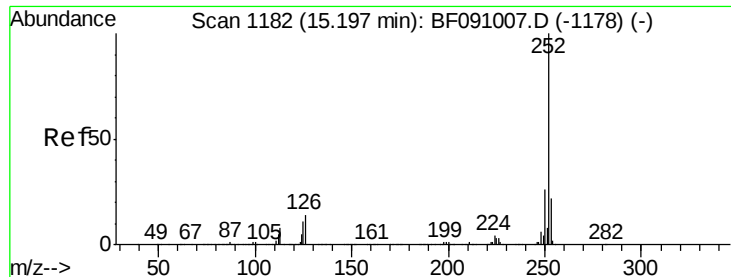
Tgt Ion:252 Resp: 2822978  
Ion Ratio Lower Upper  
252 100  
253 22.9 18.0 27.0  
125 8.0 8.3 12.5#



#88  
Benzo(k)fluoranthene  
Concen: 121.23 ng  
RT: 14.81 min Scan# 1148  
Delta R.T. -0.02 min  
Lab File: BF091184.D  
Acq: 15 Nov 2016 17:43

Tgt Ion:252 Resp: 2824383  
Ion Ratio Lower Upper  
252 100  
253 22.9 18.6 28.0  
125 8.0 11.2 16.8#





#89

Benzo(a)pyrene

Concen: 52.90 ng

RT: 15.09 min Scan# 1173

Delta R.T. -0.03 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD

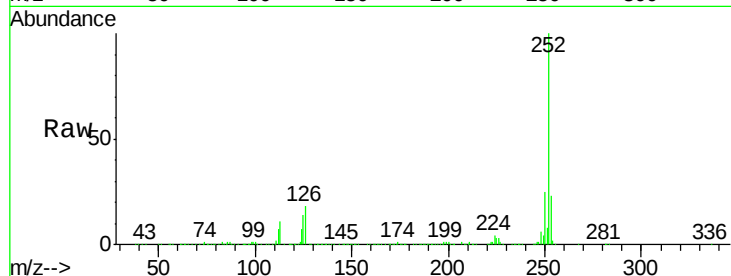
Tgt Ion:252 Resp: 1223016

Ion Ratio Lower Upper

252 100

253 22.6 17.8 26.8

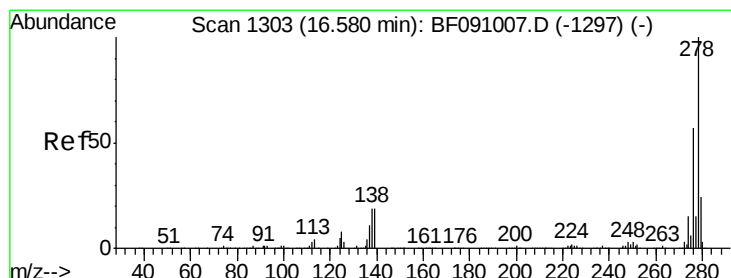
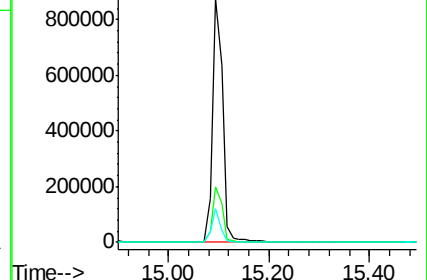
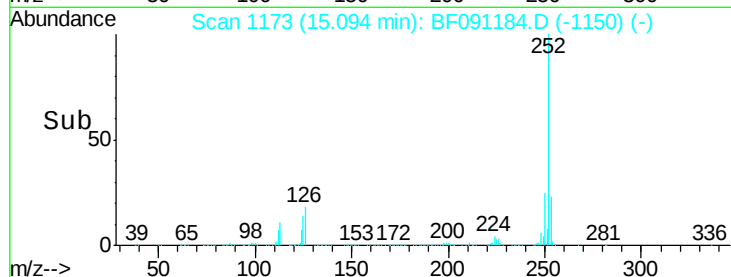
125 14.1 8.6 13.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 55.32 ng

RT: 16.43 min Scan# 1290

Delta R.T. -0.06 min

Lab File: BF091184.D

Acq: 15 Nov 2016 17:43

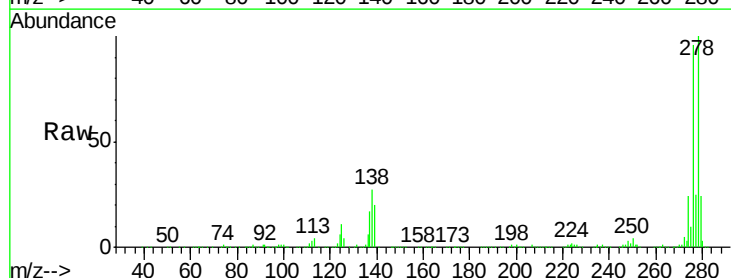
Tgt Ion:278 Resp: 1105615

Ion Ratio Lower Upper

278 100

139 19.6 15.3 22.9

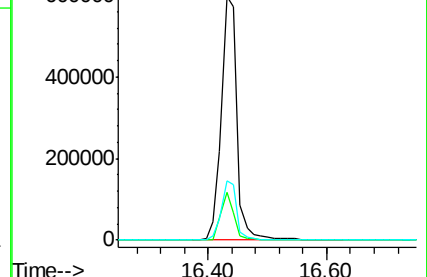
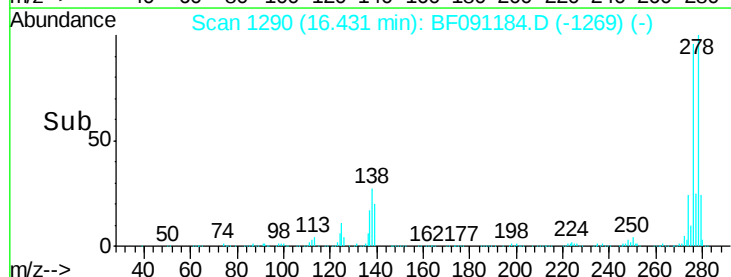
279 24.2 19.3 28.9

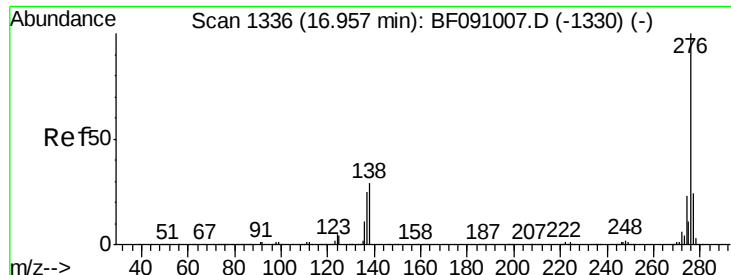


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 57.49 ng

RT: 16.81 min Scan# 1323

Delta R.T. -0.05 min

Lab File: BF091184.D

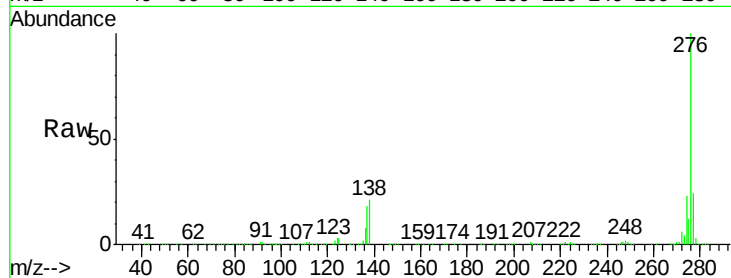
Acq: 15 Nov 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

C19023041MSD



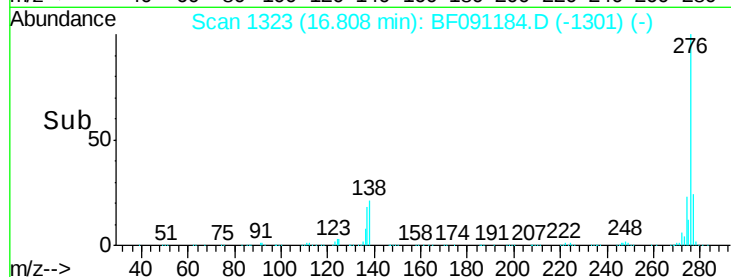
Tgt Ion: 276 Resp: 1039172

Ion Ratio Lower Upper

276 100

277 23.6 19.2 28.8

138 21.2 23.3 34.9#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

