

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080415\  
 Data File : BF080852.D  
 Acq On : 4 Aug 2015 22:23  
 Operator : TP/UM  
 Sample : G3088-02RE  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 05 02:07:54 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF080415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 05 01:46:16 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.82  | 152  | 72987    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.11  | 136  | 281191   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.86  | 164  | 119955   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.33 | 188  | 216896   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.96 | 240  | 150636   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.37 | 264  | 115750   | 20.00 | ng    | 0.00     |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 5.41  | 112 | 158846 | 32.94 | ng | -0.01 |
| 7) Phenol-d6                | 6.44  | 99  | 128852 | 20.44 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 7.39  | 82  | 521065 | 87.33 | ng | 0.00  |
| 41) 2,4,6-Tribromophenol    | 10.64 | 330 | 90140  | 77.92 | ng | -0.01 |
| 44) 2-Fluorobiphenyl        | 9.18  | 172 | 759754 | 85.29 | ng | 0.00  |
| 78) Terphenyl-d14           | 12.92 | 244 | 571616 | 68.68 | ng | 0.00  |

|                                |       |     |       |       |    |        |
|--------------------------------|-------|-----|-------|-------|----|--------|
| Target Compounds               |       |     |       |       |    | Qvalue |
| 6) Aniline                     | 6.59  | 93  | 313   | 0.03  | ng | # 1    |
| 9) Benzaldehyde                | 6.59  | 77  | 7289  | 1.66  | ng | 86     |
| 10) Phenol                     | 6.45  | 94  | 1119  | 0.15  | ng | # 2    |
| 11) bis(2-Chloroethyl)ether    | 6.59  | 93  | 313   | 0.06  | ng | # 1    |
| 15) Benzyl Alcohol             | 6.98  | 79  | 6915  | 1.68  | ng | # 51   |
| 16) 2,2'-oxybis(1-Chloropropan | 7.24  | 45  | 237   | 0.02  | ng | 74     |
| 18) Hexachloroethane           | 7.37  | 117 | 370   | 0.17  | ng | # 43   |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70  | 68789 | 16.89 | ng | # 70   |
| 22) Acetophenone               | 7.23  | 105 | 2562  | 0.37  | ng | # 91   |
| 24) Nitrobenzene               | 7.37  | 77  | 7043  | 1.14  | ng | # 40   |
| 27) 2,4-Dimethylphenol         | 7.79  | 122 | 286   | 0.06  | ng | # 5    |
| 31) Naphthalene                | 8.12  | 128 | 215   | 0.01  | ng | # 69   |
| 32) Benzoic acid               | 7.79  | 122 | 286   | 2.74  | ng | # 67   |
| 33) 4-Chloroaniline            | 8.03  | 127 | 6419  | 1.07  | ng | # 43   |
| 35) Caprolactam                | 8.50  | 113 | 273   | 0.25  | ng | # 90   |
| 45) 1,1'-Biphenyl              | 9.18  | 154 | 1439  | 0.13  | ng | # 1    |
| 47) 2-Nitroaniline             | 9.57  | 65  | 259   | 0.08  | ng | # 1    |
| 49) Dimethylphthalate          | 9.57  | 163 | 26139 | 2.99  | ng | 99     |
| 50) 2,6-Dinitrotoluene         | 9.86  | 165 | 15315 | 8.37  | ng | # 11   |
| 51) Acenaphthene               | 9.86  | 154 | 325   | 0.04  | ng | # 4    |
| 56) 2,4-Dinitrotoluene         | 9.86  | 165 | 15315 | 6.63  | ng | # 13   |
| 57) Fluorene                   | 10.64 | 166 | 3898  | 0.45  | ng | # 87   |
| 59) Diethylphthalate           | 10.27 | 149 | 1586  | 0.18  | ng | # 84   |
| 62) Azobenzene                 | 10.64 | 77  | 481   | 0.05  | ng | # 1    |
| 65) n-Nitrosodiphenylamine     | 10.64 | 169 | 3042  | 0.37  | ng | # 42   |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248 | 5621  | 2.34  | ng | # 1    |
| 70) Phenanthrene               | 11.36 | 178 | 575   | 0.05  | ng | # 60   |
| 71) Anthracene                 | 11.36 | 178 | 575   | 0.05  | ng | # 60   |
| 72) Carbazole                  | 11.50 | 167 | 398   | 0.03  | ng | # 59   |
| 73) Di-n-butylphthalate        | 11.90 | 149 | 1173  | 0.09  | ng | # 78   |
| 74) Fluoranthene               | 12.54 | 202 | 564   | 0.05  | ng | 65     |
| 77) Pyrene                     | 12.76 | 202 | 239   | 0.02  | ng | # 58   |
| 80) Benzo(a)anthracene         | 13.96 | 228 | 295   | 0.03  | ng | # 52   |
| 82) Chrysene                   | 13.96 | 228 | 295   | 0.03  | ng | # 50   |

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Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Aug 05 02:07:54 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF080415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 05 01:46:16 2015  
Response via : Initial Calibration

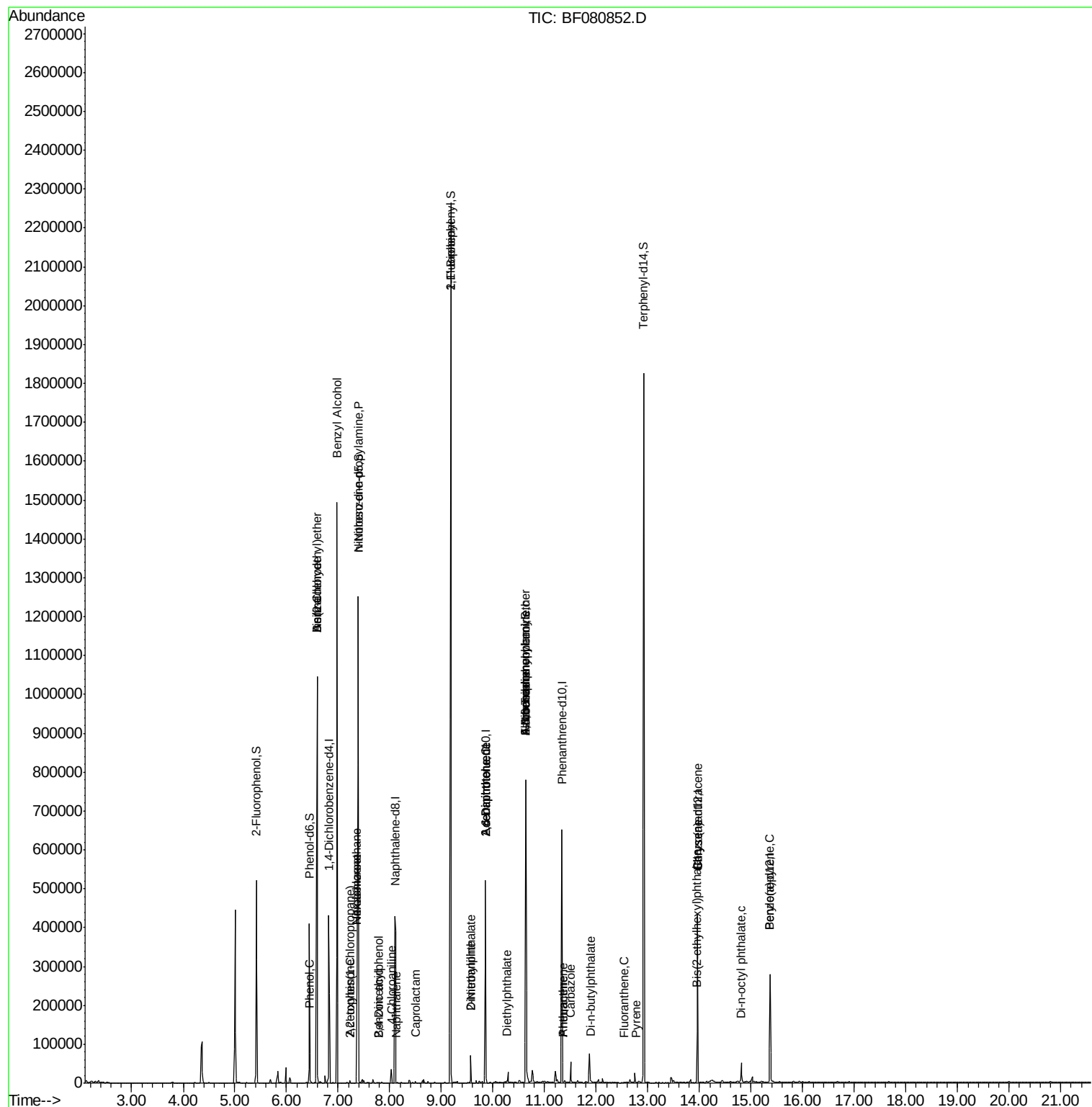
| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 83) Bis(2-ethylhexyl)phthalate | 13.95 | 149  | 1772     | 0.24 | nq    | # 96     |
| 84) Di-n-octyl phthalate       | 14.81 | 149  | 768      | 0.06 | nq    | # 33     |
| 89) Benzo(a)pyrene             | 15.37 | 252  | 220      | 0.03 | nq    | # 59     |

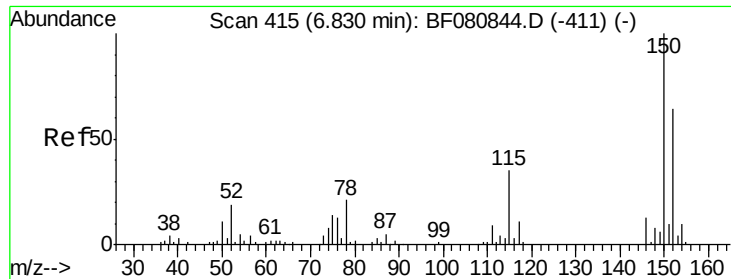
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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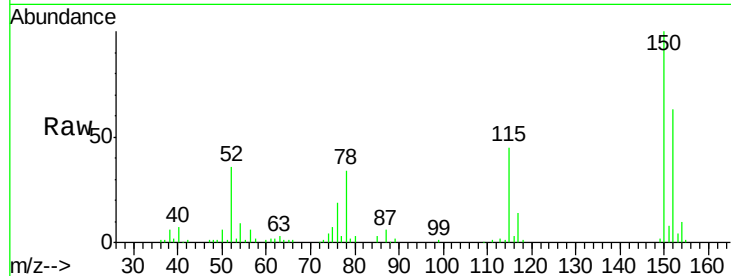


#1

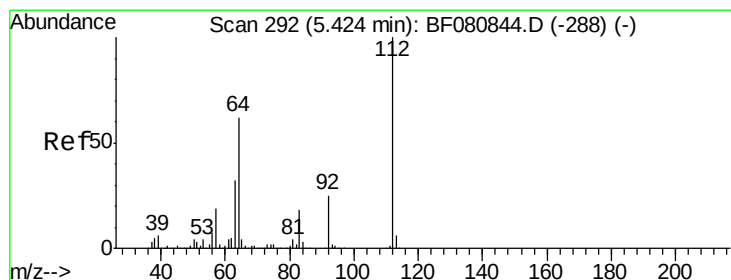
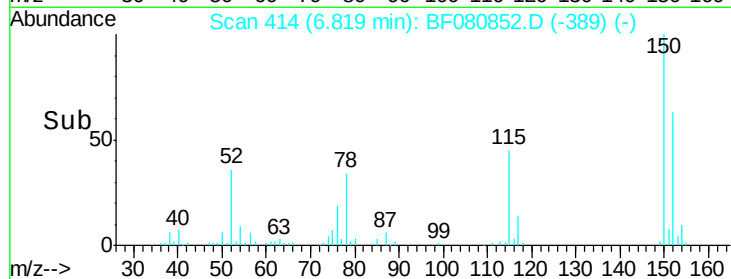
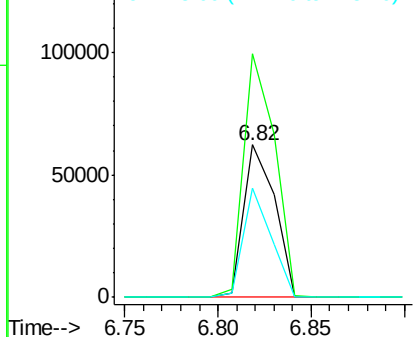
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.82 min Scan# 414  
Delta R.T. -0.01 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 72987  
Ion Ratio Lower Upper  
152 100  
150 159.7 124.6 187.0  
115 71.5 44.2 66.4#



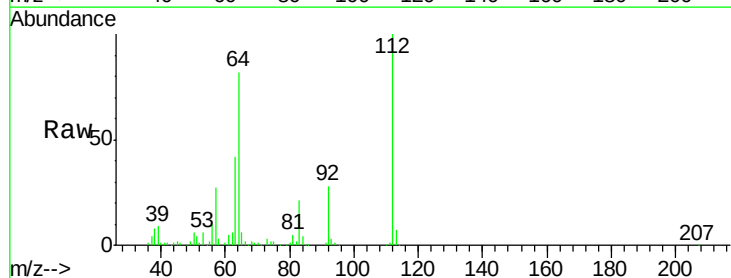
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



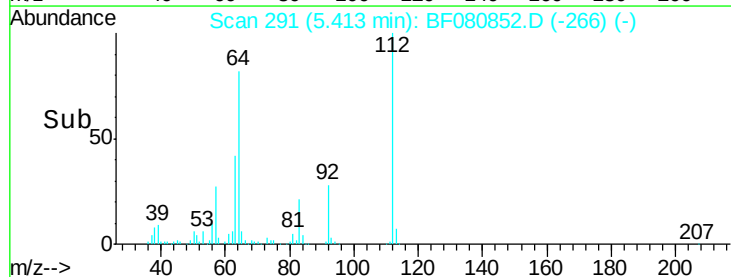
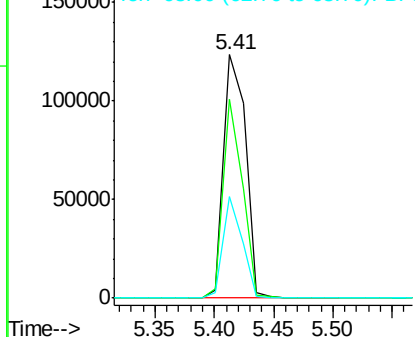
#5

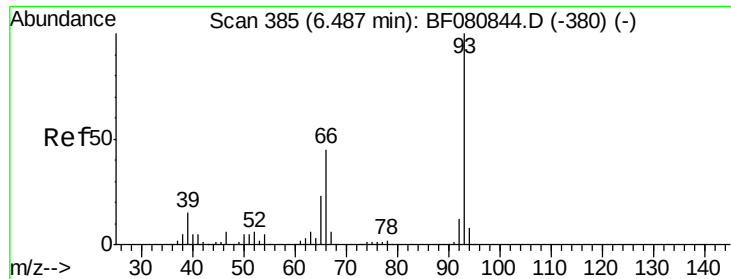
2-Fluorophenol  
Concen: 32.94 ng  
RT: 5.41 min Scan# 291  
Delta R.T. -0.01 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

Tgt Ion:112 Resp: 158846  
Ion Ratio Lower Upper  
112 100  
64 81.7 49.5 74.3#  
63 41.7 25.3 37.9#



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#6

Aniline

Concen: 0.03 ng

RT: 6.59 min Scan# 394

Delta R.T. 0.10 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

Instrument :

BNA\_F

ClientSampleId :

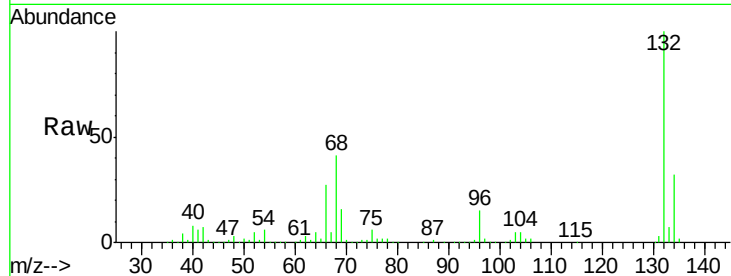
Tot Ion: 93 Resp: 313

Ion Ratio Lower Upper

93 100

66 18029.8 35.8 53.6#

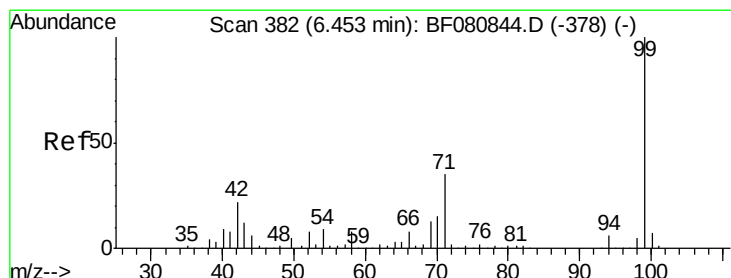
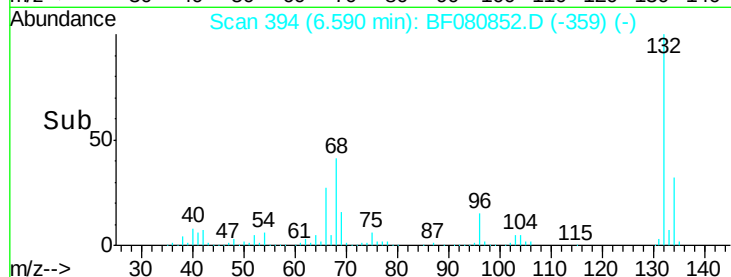
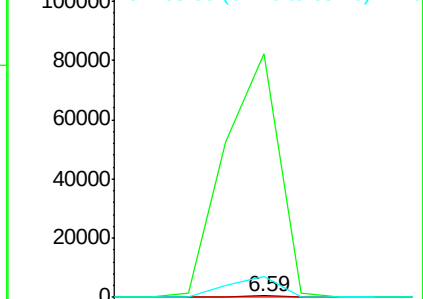
65 1558.6 18.2 27.2#



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: 20.44 ng

RT: 6.44 min Scan# 381

Delta R.T. -0.01 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

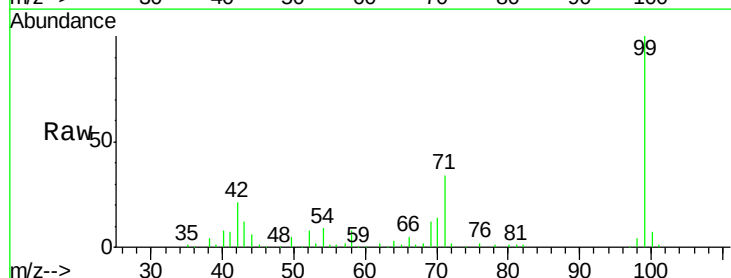
Tgt Ion: 99 Resp: 128852

Ion Ratio Lower Upper

99 100

42 21.3 17.9 26.9

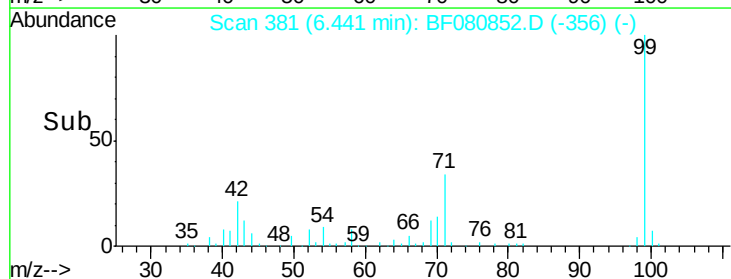
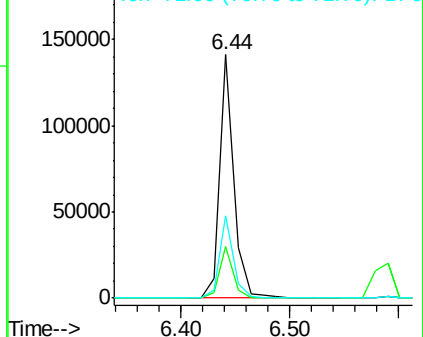
71 33.7 28.2 42.4

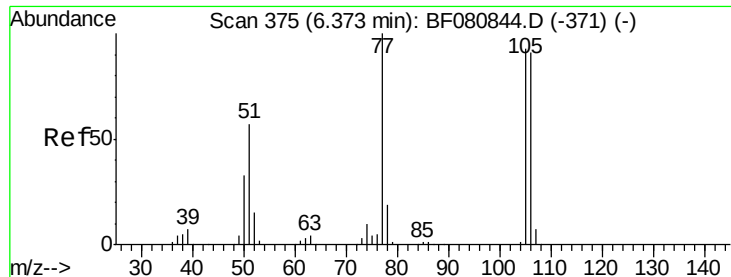


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#9

Benzaldehyde

Concen: 1.66 ng

RT: 6.59 min Scan# 394

Delta R.T. 0.22 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

Instrument :

BNA\_F

ClientSampled :

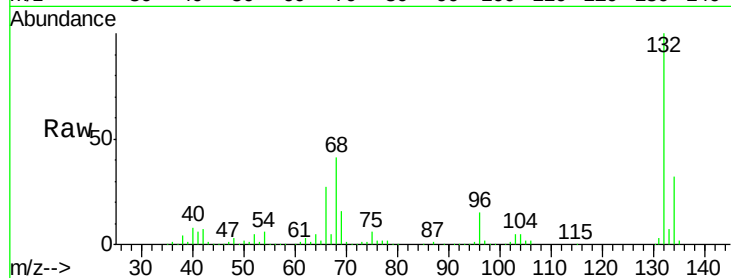
Tot Ion: 77 Resp: 7289

Ion Ratio Lower Upper

77 100

105 80.8 73.5 113.5

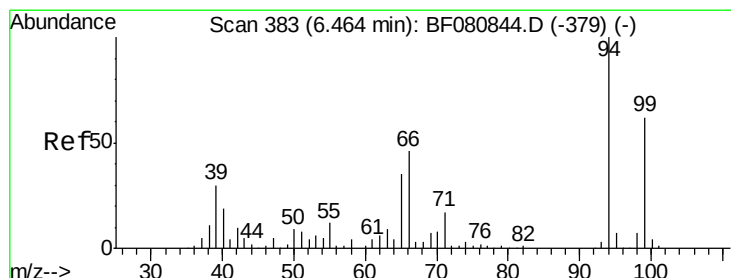
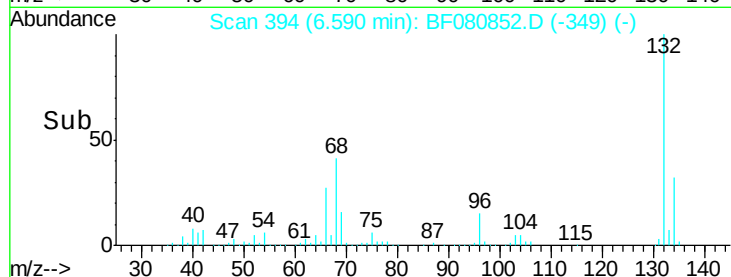
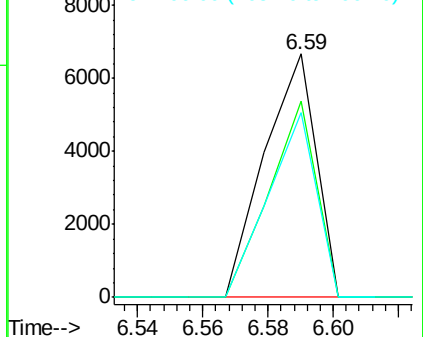
106 75.9 70.8 110.8



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E



#10

Phenol

Concen: 0.15 ng

RT: 6.45 min Scan# 382

Delta R.T. -0.01 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

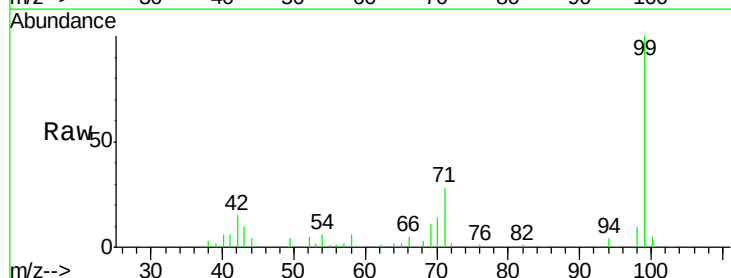
Tgt Ion: 94 Resp: 1119

Ion Ratio Lower Upper

94 100

65 60.3 15.2 55.2#

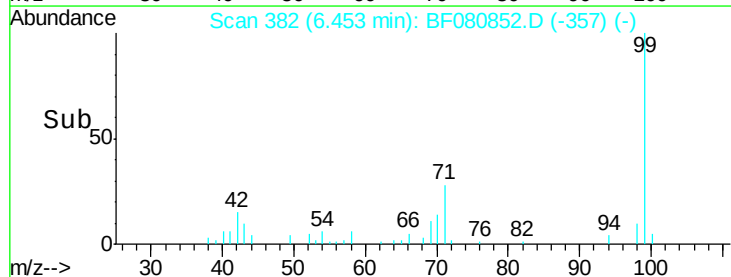
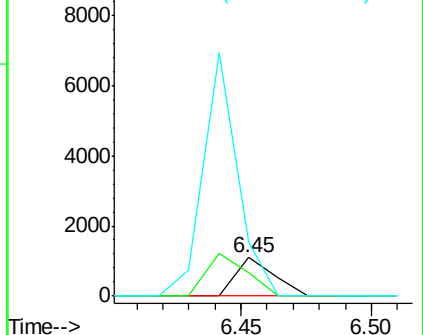
66 138.9 25.9 65.9#

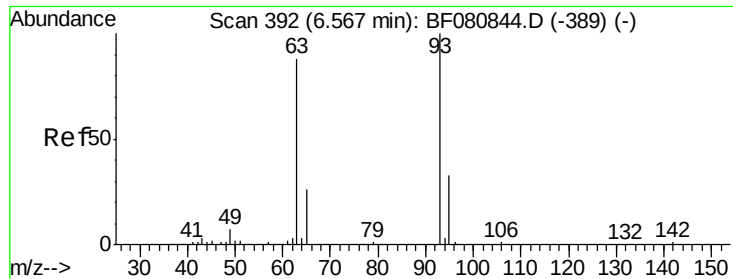


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

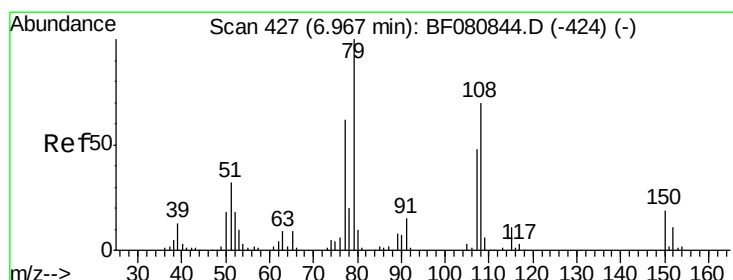
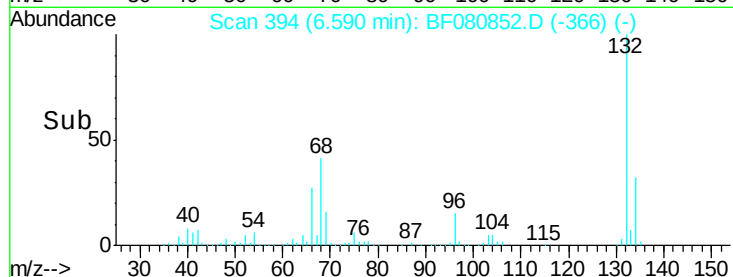
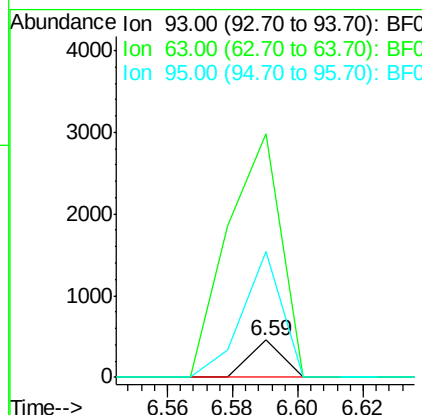
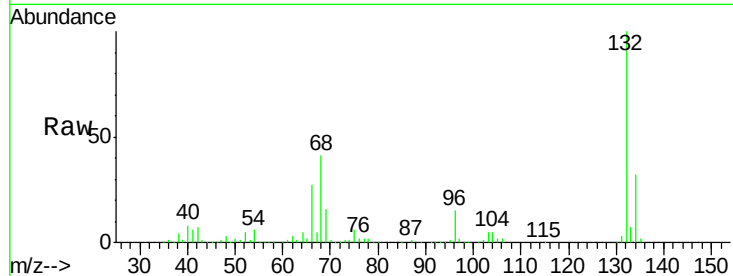




#11  
bis(2-Chloroethyl)ether  
Concen: 0.06 ng  
RT: 6.59 min Scan# 394  
Delta R.T. 0.02 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

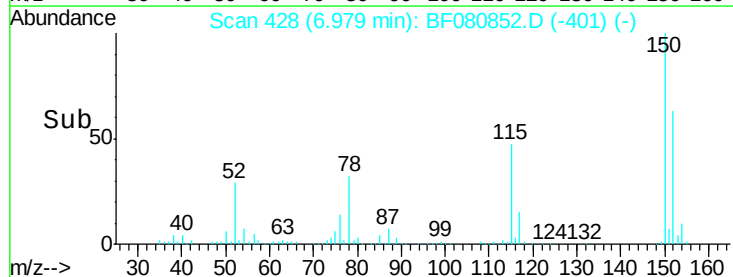
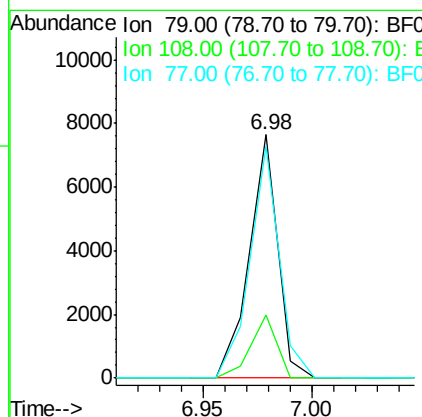
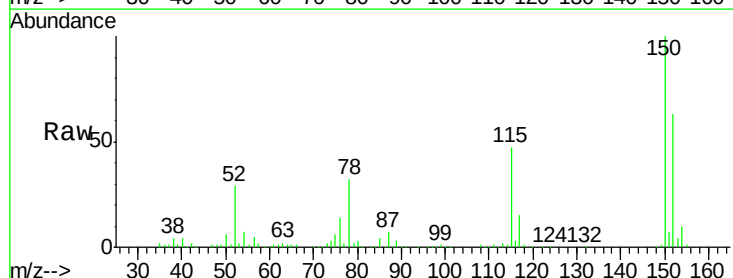
Instrument :  
BNA\_F  
ClientSampleId :

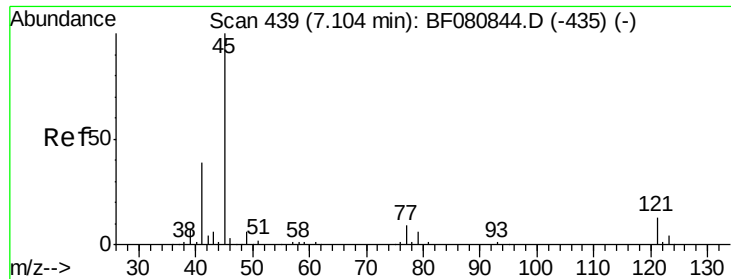
Tot Ion: 93 Resp: 313  
Ion Ratio Lower Upper  
93 100  
63 653.7 67.6 107.6#  
95 336.4 12.9 52.9#



#15  
Benzyl Alcohol  
Concen: 1.68 ng  
RT: 6.98 min Scan# 428  
Delta R.T. 0.01 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

Tgt Ion: 79 Resp: 6915  
Ion Ratio Lower Upper  
79 100  
108 25.8 55.9 83.9#  
77 95.1 49.4 74.2#

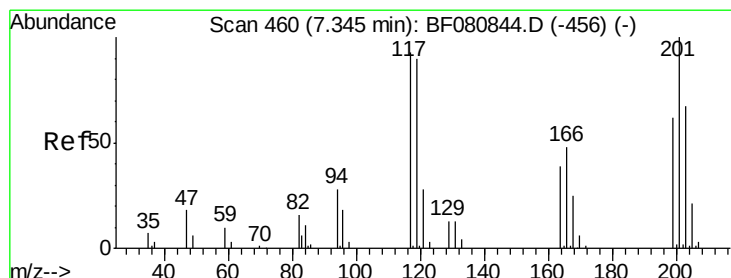
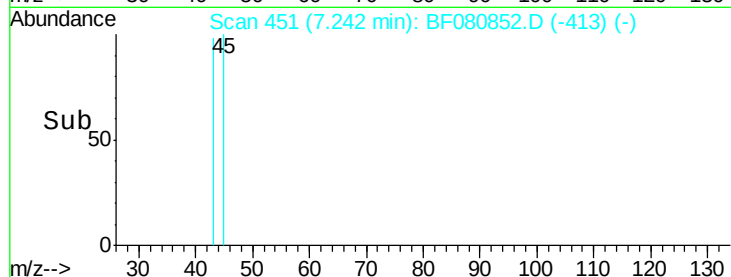
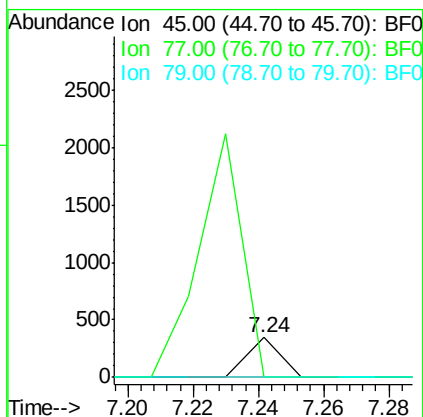
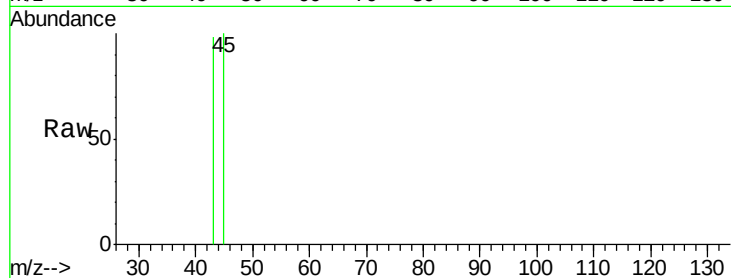




#16  
2,2'-oxvbis(1-Chloropropane)  
Concen: 0.02 ng  
RT: 7.24 min Scan# 451  
Delta R.T. 0.14 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

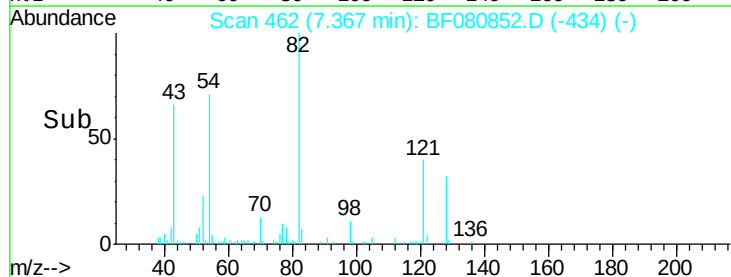
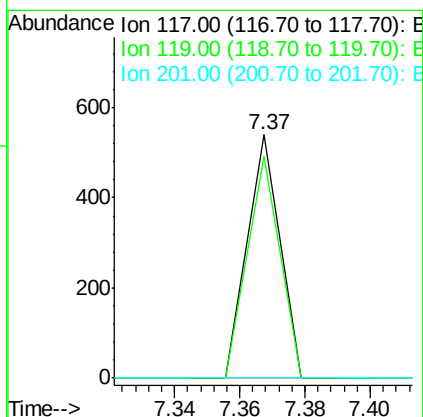
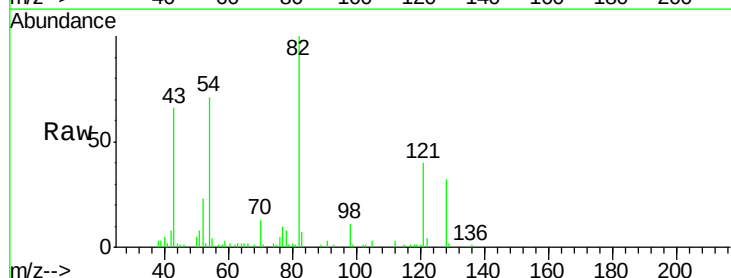
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 45 Resp: 237  
Ion Ratio Lower Upper  
45 100  
77 0.0 0.0 30.5  
79 0.0 0.0 28.2

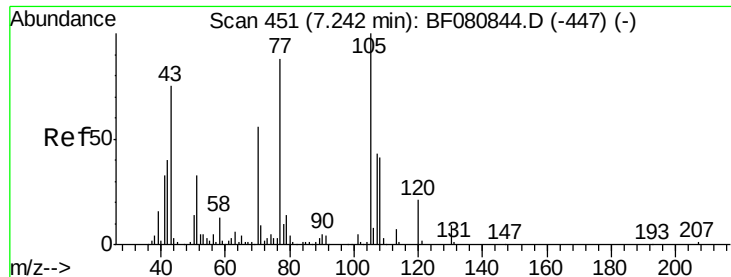


#18  
Hexachloroethane  
Concen: 0.17 ng  
RT: 7.37 min Scan# 462  
Delta R.T. 0.02 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

Tgt Ion: 117 Resp: 370  
Ion Ratio Lower Upper  
117 100  
119 90.9 77.4 116.0  
201 0.0 85.8 128.6#



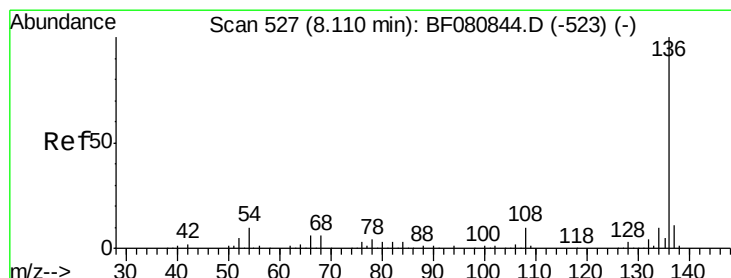
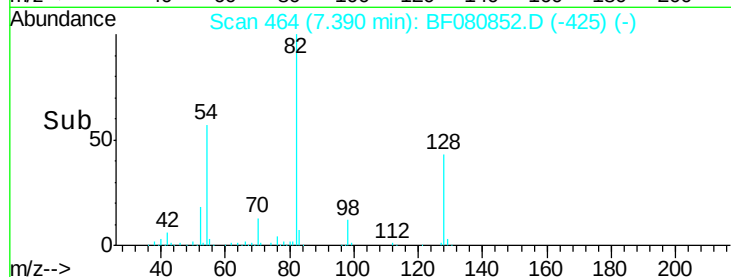
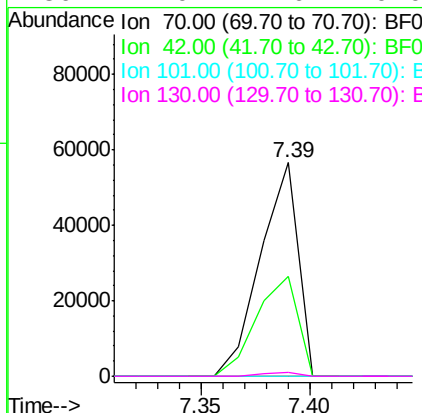
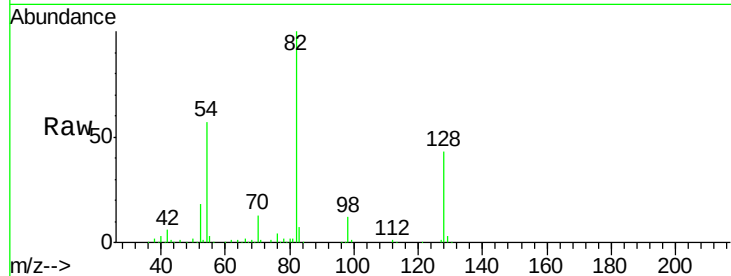




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.89 ng  
RT: 7.39 min Scan# 464  
Delta R.T. 0.15 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

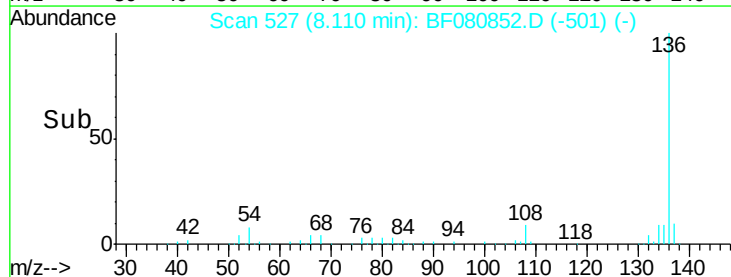
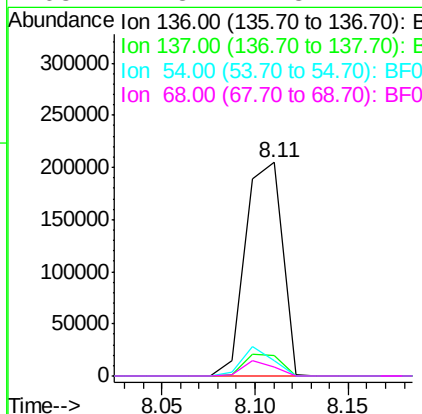
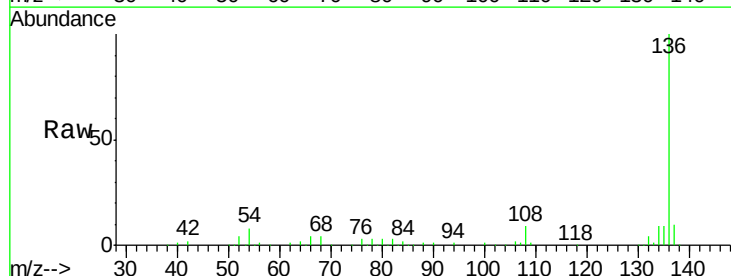
Instrument :  
BNA\_F  
ClientSampleId :

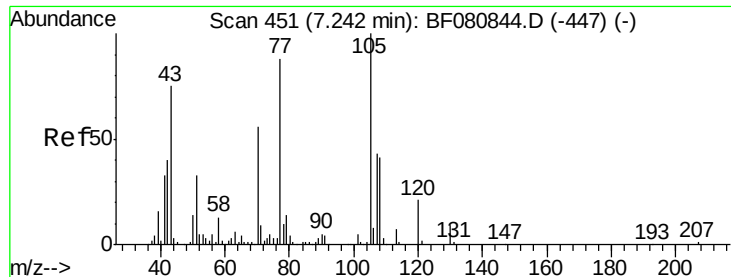
Tot Ion: 70 Resp: 68789  
Ion Ratio Lower Upper  
70 100  
42 46.6 57.8 86.8#  
101 0.0 6.7 10.1#  
130 2.0 12.6 19.0#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.11 min Scan# 527  
Delta R.T. -0.00 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

Tgt Ion:136 Resp: 281191  
Ion Ratio Lower Upper  
136 100  
137 9.8 8.6 13.0  
54 7.5 8.3 12.5#  
68 4.3 4.8 7.2#

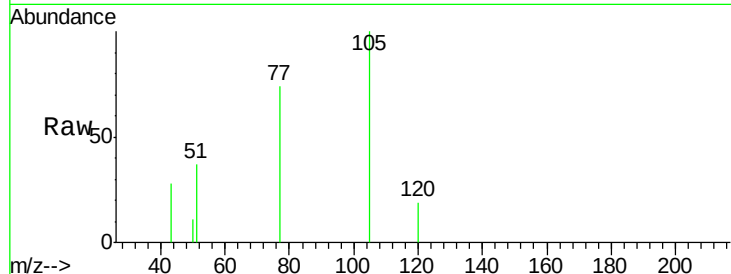




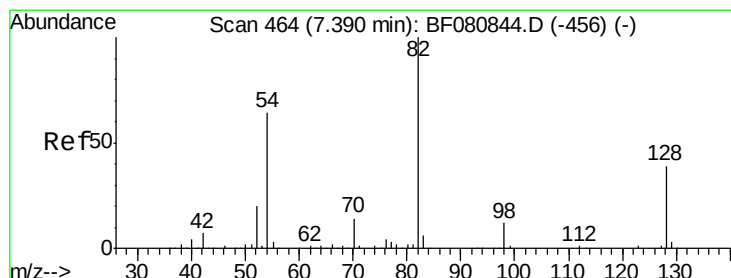
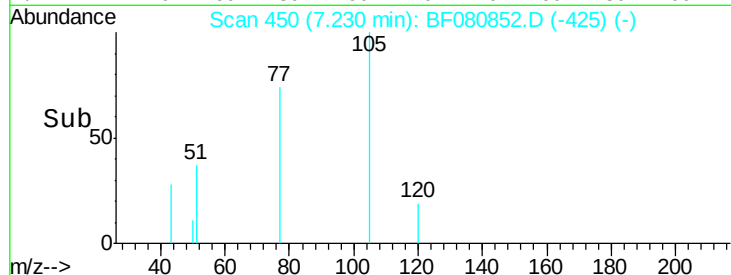
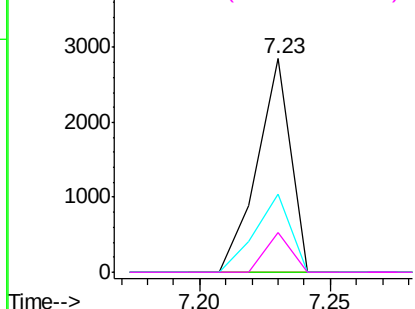
#22  
Acetophenone  
Concen: 0.37 ng  
RT: 7.23 min Scan# 450  
Delta R.T. -0.01 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:105 Resp: 2562  
Ion Ratio Lower Upper  
105 100  
71 0.0 7.4 11.2#  
51 36.8 26.5 39.7  
120 18.5 17.0 25.4

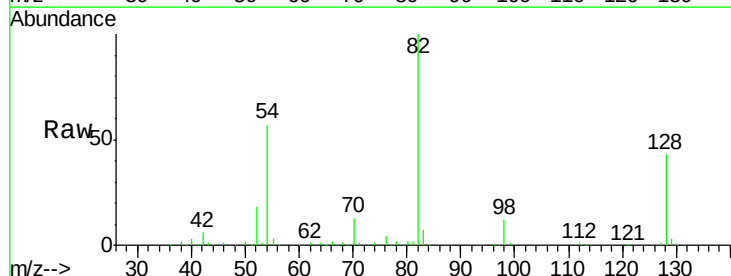


Abundance Ion 105.00 (104.70 to 105.70): E  
Ion 71.00 (70.70 to 71.70): BF0  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 120.00 (119.70 to 120.70): E

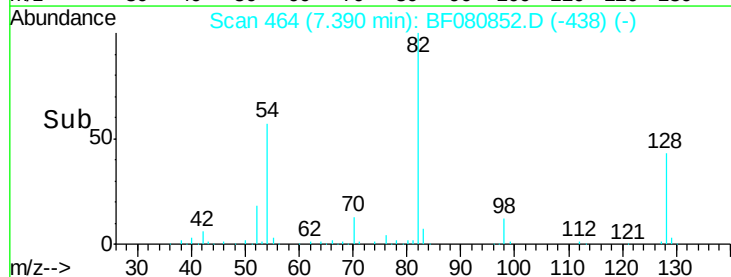
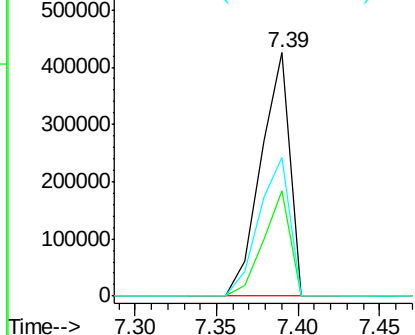


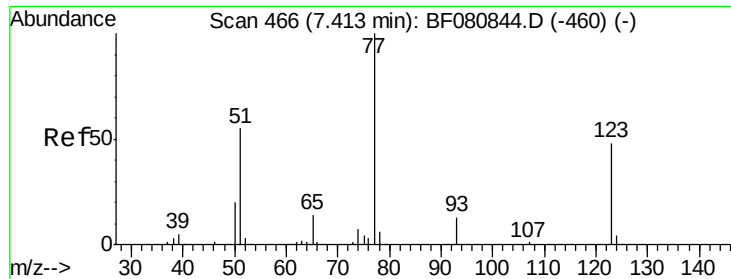
#23  
Nitrobenzene-d5  
Concen: 87.33 ng  
RT: 7.39 min Scan# 464  
Delta R.T. -0.00 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

Tgt Ion: 82 Resp: 521065  
Ion Ratio Lower Upper  
82 100  
128 43.1 31.0 46.4  
54 57.0 51.0 76.6



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

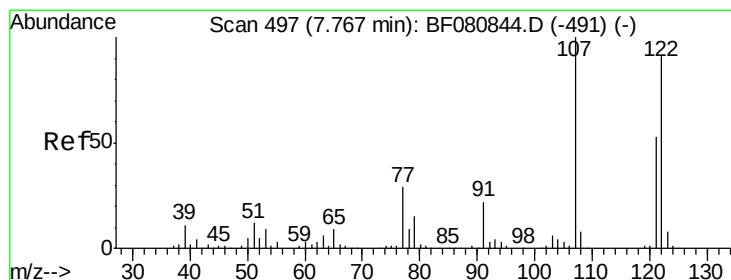
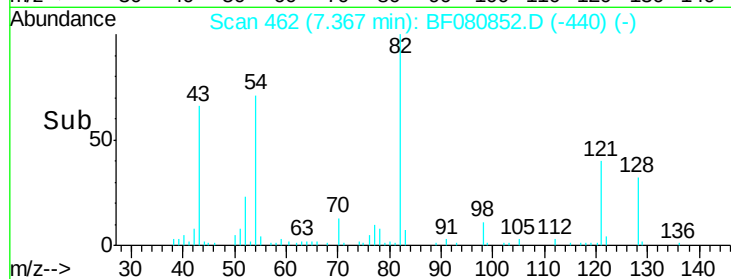
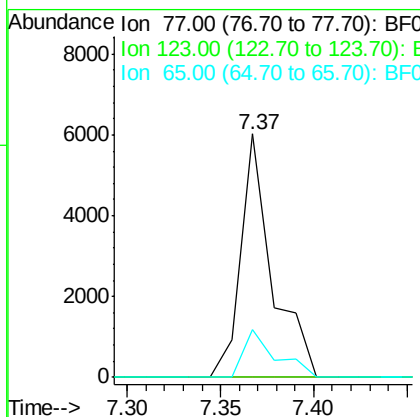
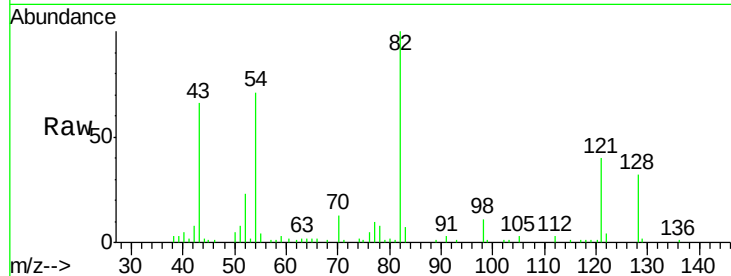




#24  
 Nitrobenzene  
 Concen: 1.14 ng  
 RT: 7.37 min Scan# 462  
 Delta R.T. -0.05 min  
 Lab File: BF080852.D  
 Acq: 4 Aug 2015 22:23

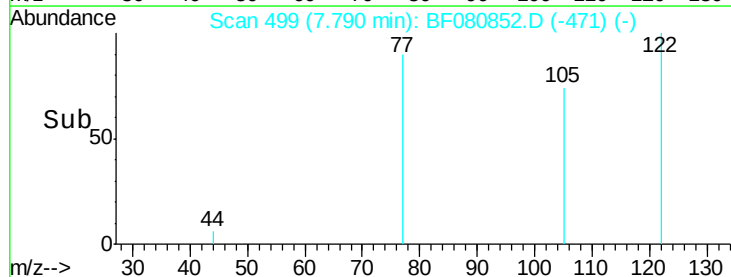
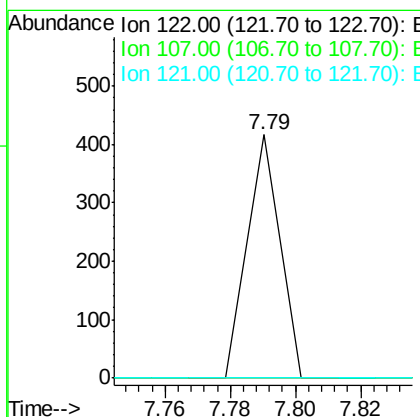
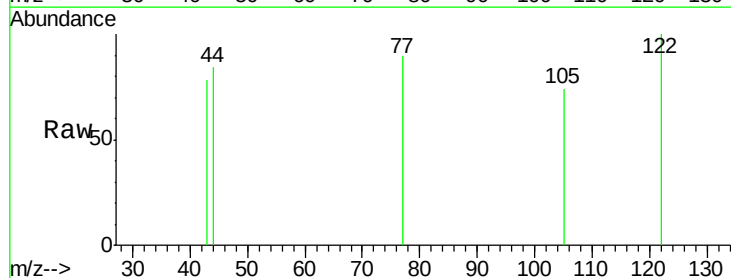
Instrument :  
 BNA\_F  
 ClientSampleId :

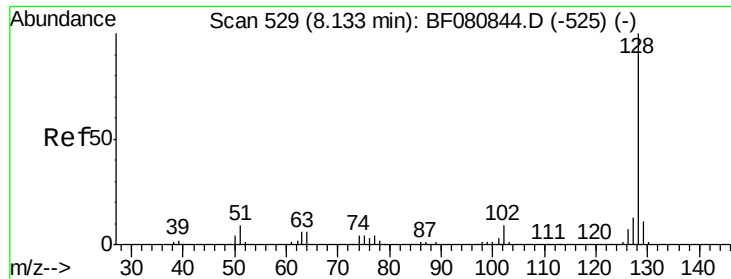
Tot Ion: 77 Resp: 7043  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 39.7 59.5#  
 65 19.6 11.0 16.6#



#27  
 2,4-Dimethylphenol  
 Concen: 0.06 ng  
 RT: 7.79 min Scan# 499  
 Delta R.T. 0.02 min  
 Lab File: BF080852.D  
 Acq: 4 Aug 2015 22:23

Tgt Ion: 122 Resp: 286  
 Ion Ratio Lower Upper  
 122 100  
 107 0.0 88.2 132.4#  
 121 0.0 46.8 70.2#

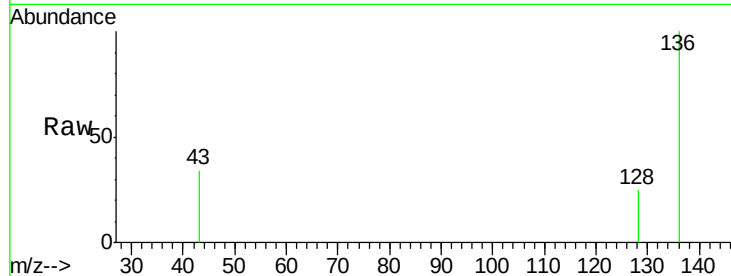




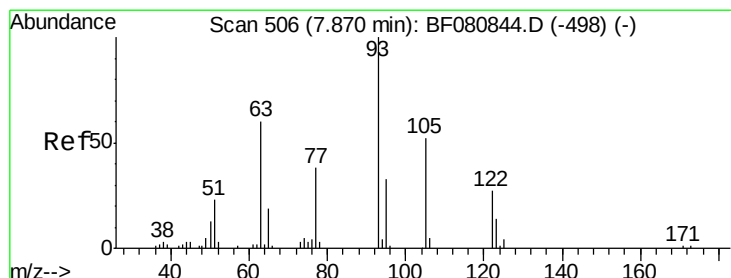
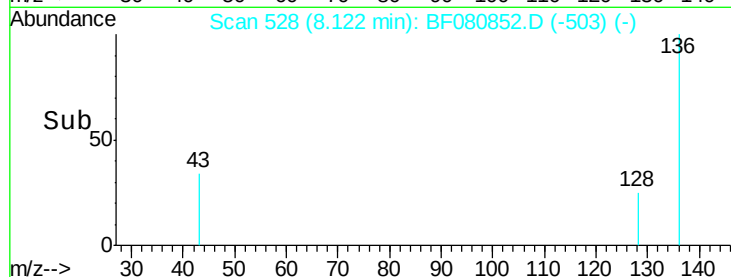
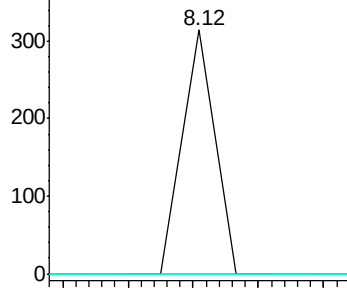
#31  
Naphthalene  
Concen: 0.01 ng  
RT: 8.12 min Scan# 528  
Delta R.T. -0.01 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:128 Resp: 215  
Ion Ratio Lower Upper  
128 100  
129 0.0 8.7 13.1#  
127 0.0 10.6 15.8#

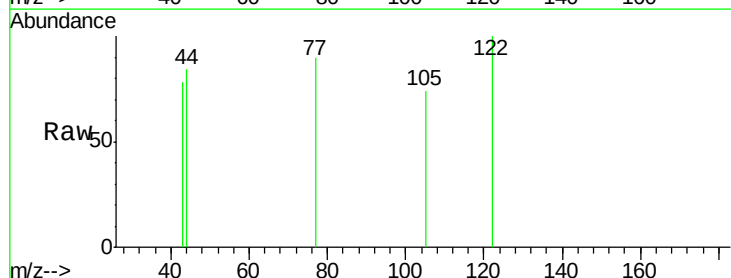


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

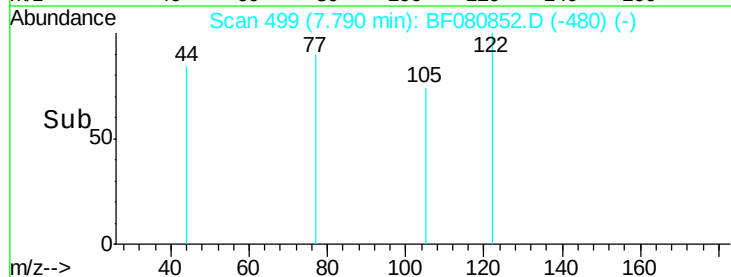
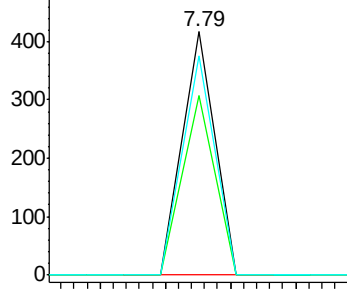


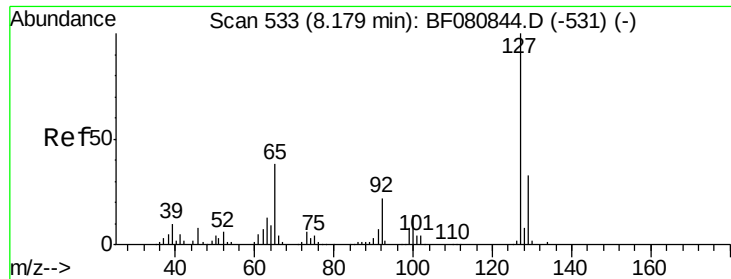
#32  
Benzoic acid  
Concen: 2.74 ng  
RT: 7.79 min Scan# 499  
Delta R.T. -0.08 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

Tgt Ion:122 Resp: 286  
Ion Ratio Lower Upper  
122 100  
105 73.9 110.1 150.1#  
77 90.2 83.6 123.6



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0

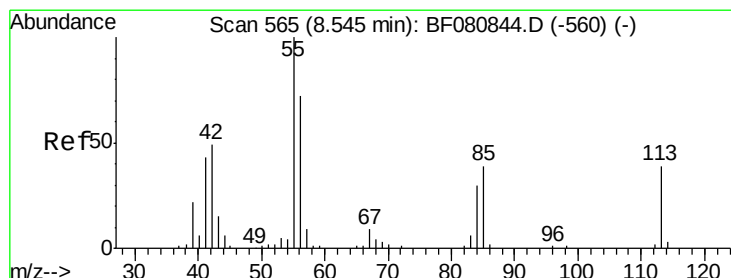
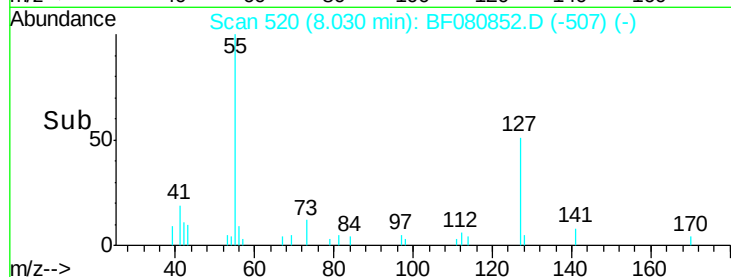
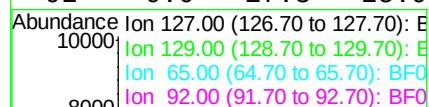
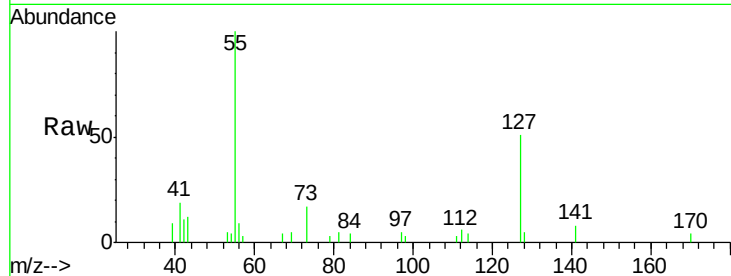




#33  
4-Chloroaniline  
Concen: 1.07 ng  
RT: 8.03 min Scan# 520  
Delta R.T. -0.15 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

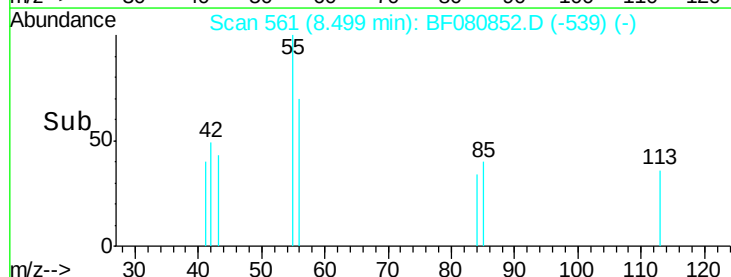
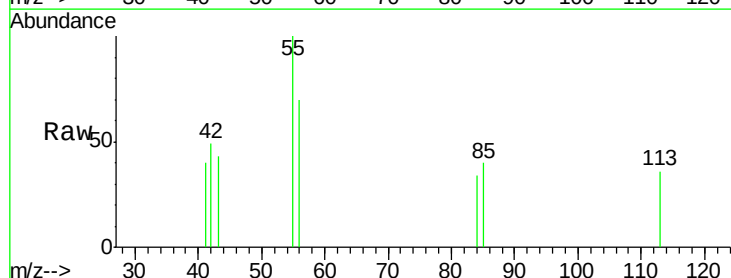
Instrument :  
BNA\_F  
ClientSampleID :

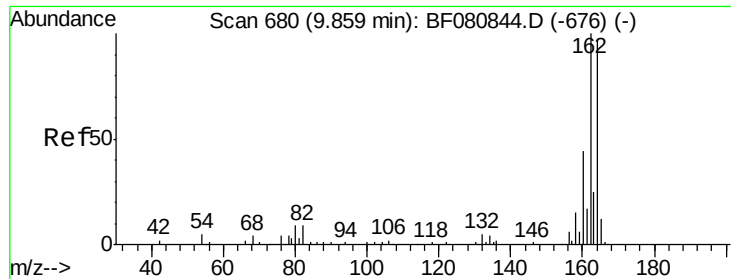
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 127   | Resp: | 6419  |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 0.0   | 26.2  | 39.2# |
| 65       | 0.0   | 30.3  | 45.5# |
| 92       | 0.0   | 17.3  | 25.9# |



#35  
Caprolactam  
Concen: 0.25 ng  
RT: 8.50 min Scan# 561  
Delta R.T. -0.05 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 273    |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 55       | 279.4 | 236.2 | 276.2# |
| 56       | 195.0 | 165.2 | 205.2  |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.86 min Scan# 680

Delta R.T. -0.00 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

Instrument :

BNA\_F

ClientSampleId :

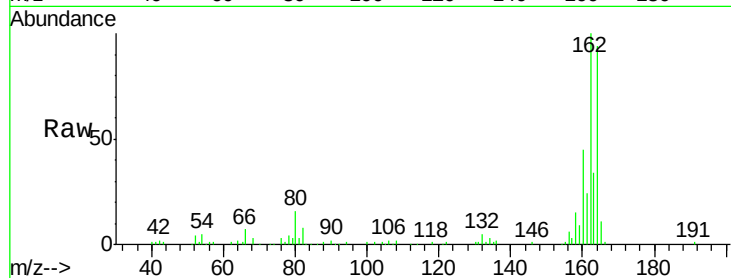
Tot Ion:164 Resp: 119955

Ion Ratio Lower Upper

164 100

162 106.9 82.9 124.3

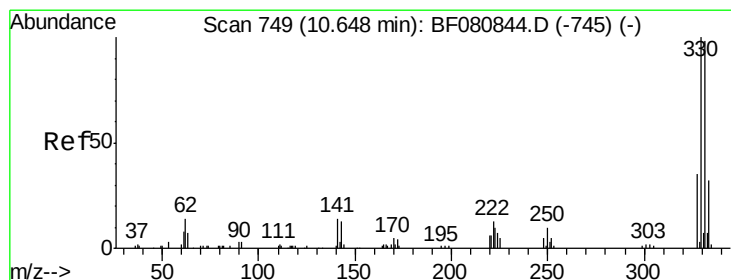
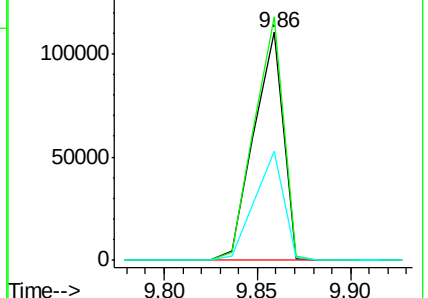
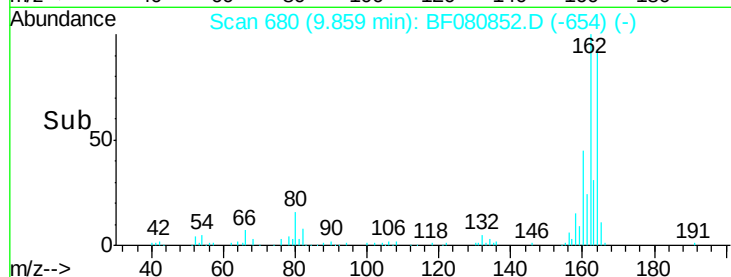
160 47.9 36.6 54.8



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 77.92 ng

RT: 10.64 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

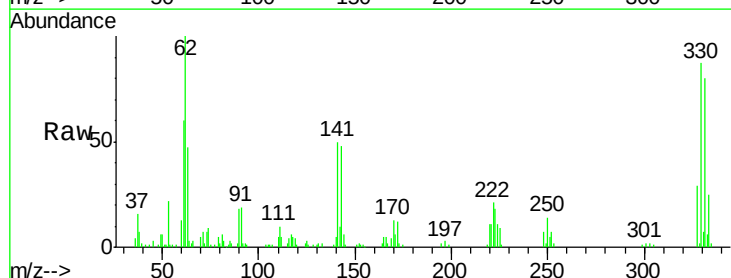
Tgt Ion:330 Resp: 90140

Ion Ratio Lower Upper

330 100

332 94.8 77.8 116.8

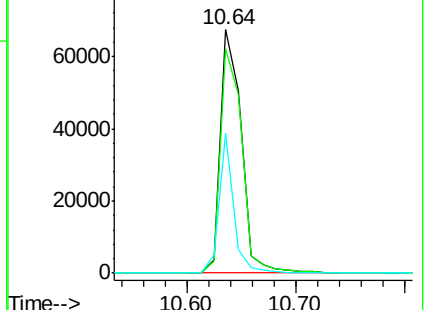
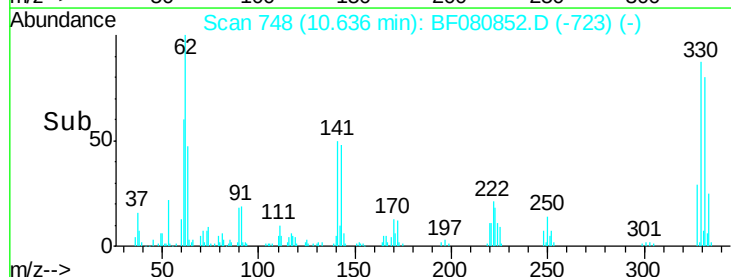
141 40.1 28.4 42.6

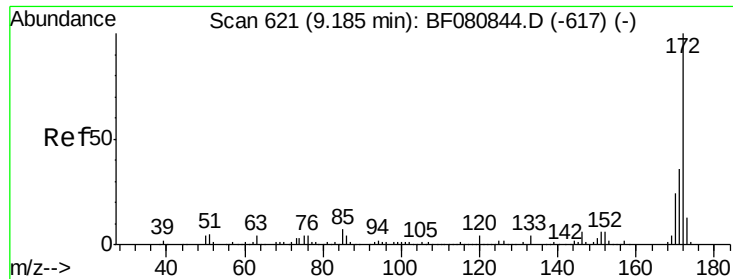


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

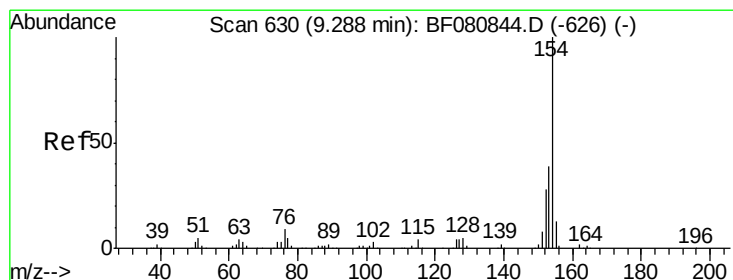
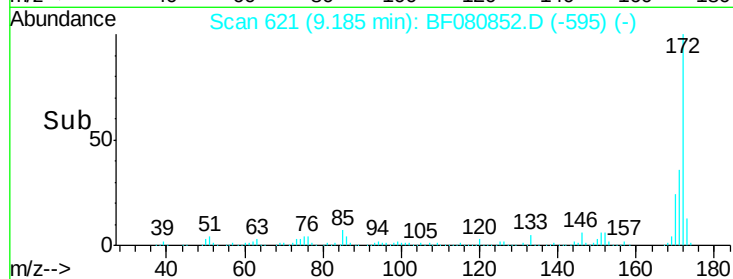
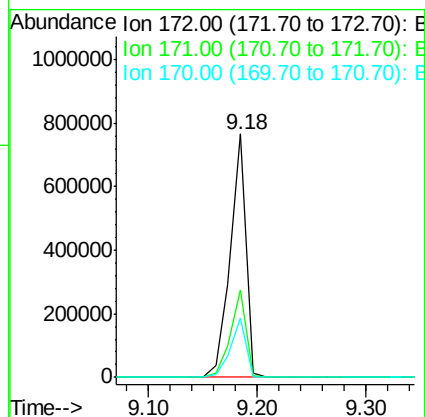
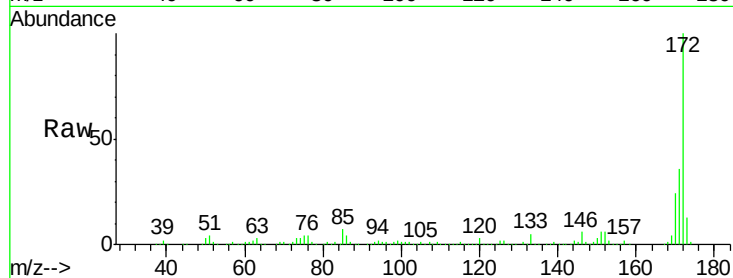




#44  
2-Fluorobiphenyl  
Concen: 85.29 ng  
RT: 9.18 min Scan# 621  
Delta R.T. -0.00 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

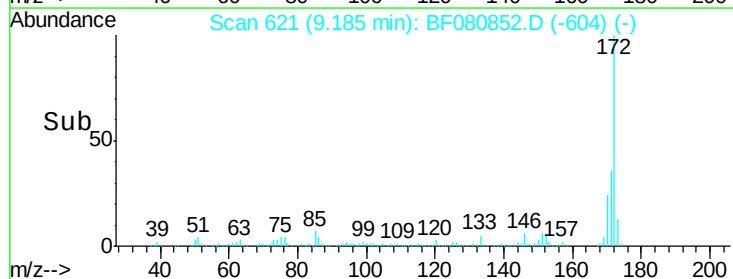
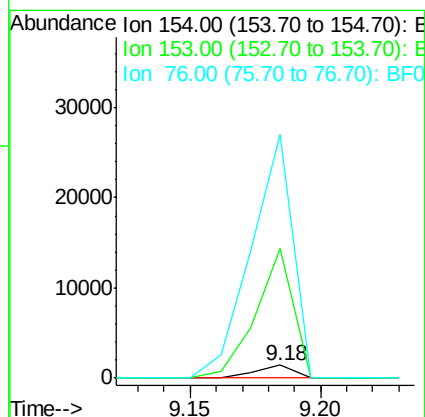
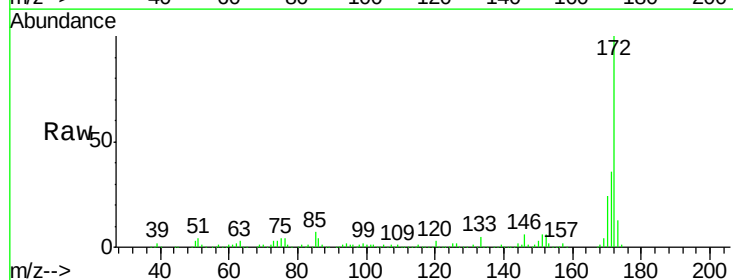
Instrument :  
BNA\_F  
ClientSampleId :

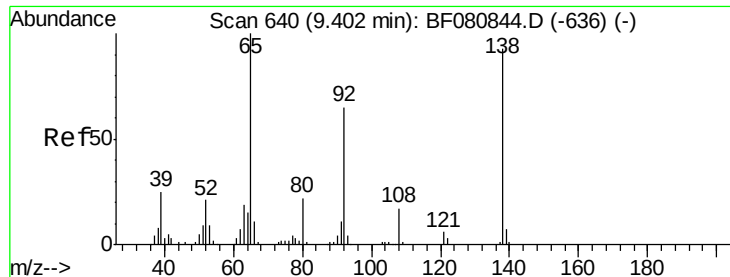
Tot Ion:172 Resp: 759754  
Ion Ratio Lower Upper  
172 100  
171 36.1 28.9 43.3  
170 24.3 19.4 29.2



#45  
1,1'-Biphenyl  
Concen: 0.13 ng  
RT: 9.18 min Scan# 621  
Delta R.T. -0.10 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

Tgt Ion:154 Resp: 1439  
Ion Ratio Lower Upper  
154 100  
153 1009.5 19.2 59.2#  
76 1892.1 0.0 29.3#





#47

2-Nitroaniline

Concen: 0.08 ng

RT: 9.57 min Scan# 655

Delta R.T. 0.17 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

Instrument :

BNA\_F

ClientSampleId :

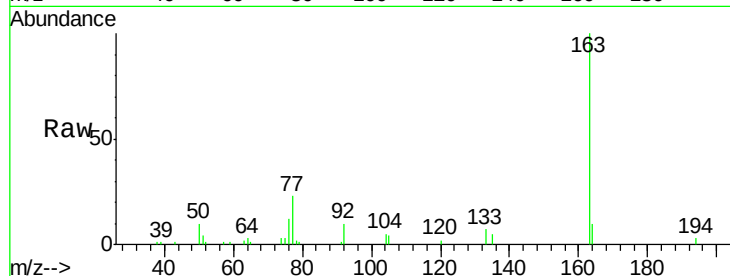
Tot Ion: 65 Resp: 259

Ion Ratio Lower Upper

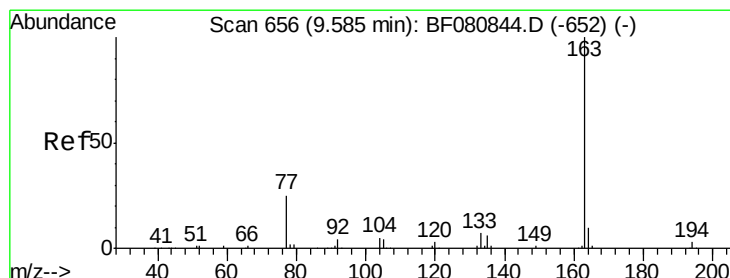
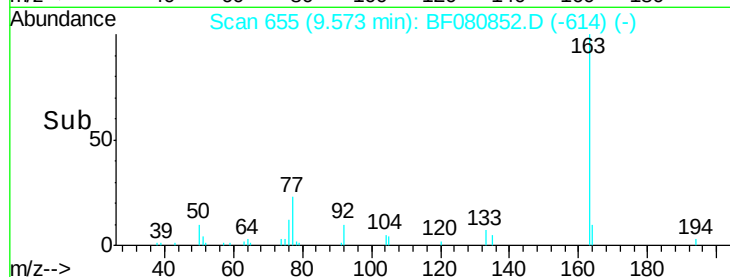
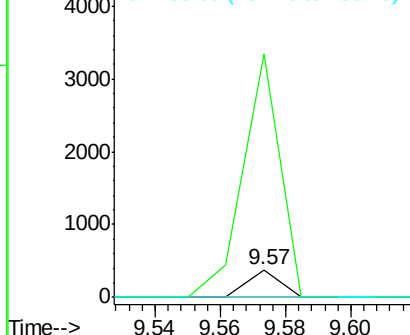
65 100

92 887.0 51.7 77.5#

138 0.0 74.2 111.2#



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): E



#49

Dimethylphthalate

Concen: 2.99 ng

RT: 9.57 min Scan# 655

Delta R.T. -0.01 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

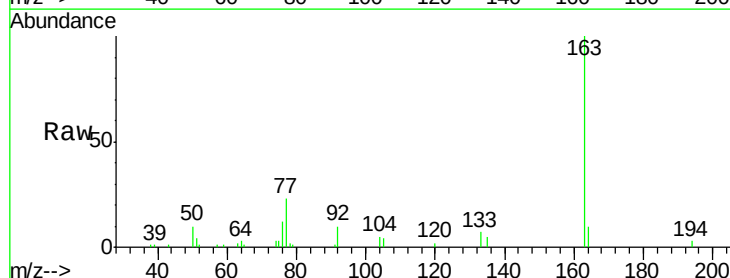
Tgt Ion: 163 Resp: 26139

Ion Ratio Lower Upper

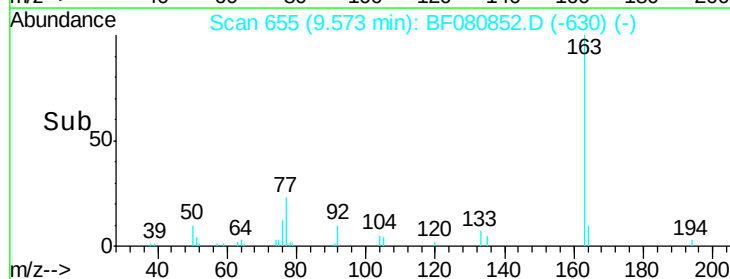
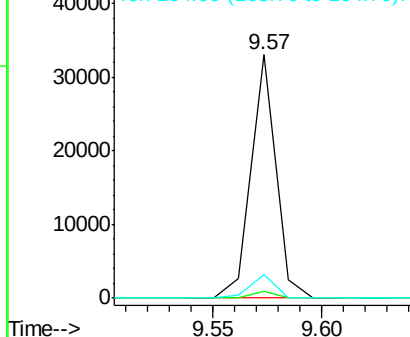
163 100

194 2.9 2.6 4.0

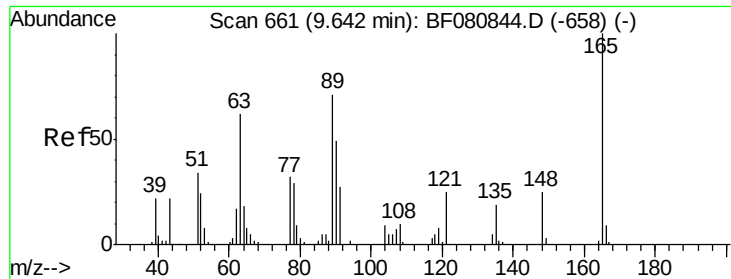
164 9.9 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E







#50

2,6-Dinitrotoluene

Concen: 8.37 ng

RT: 9.86 min Scan# 680

Delta R.T. 0.22 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

Instrument :

BNA\_F

ClientSampleId :

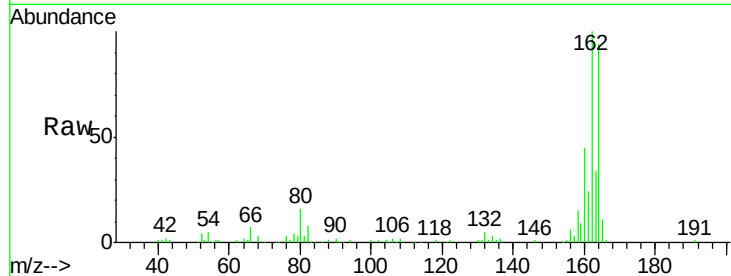
Tot Ion:165 Resp: 15315

Ion Ratio Lower Upper

165 100

63 0.0 65.0 97.6#

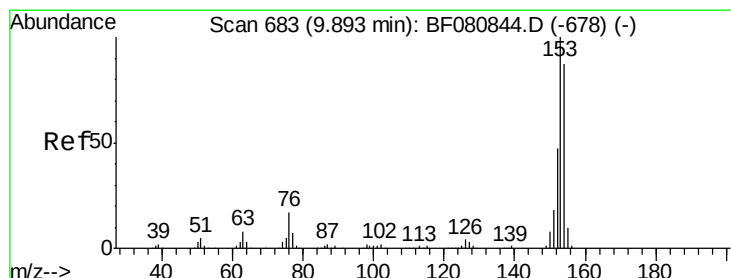
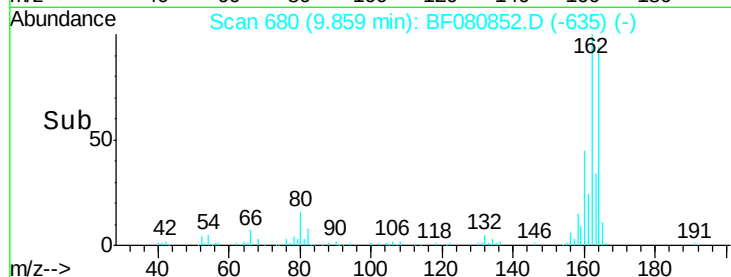
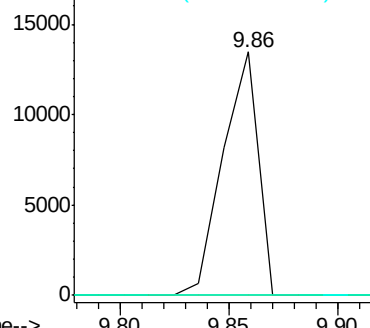
89 0.0 56.6 85.0#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#51

Acenaphthene

Concen: 0.04 ng

RT: 9.86 min Scan# 680

Delta R.T. -0.03 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

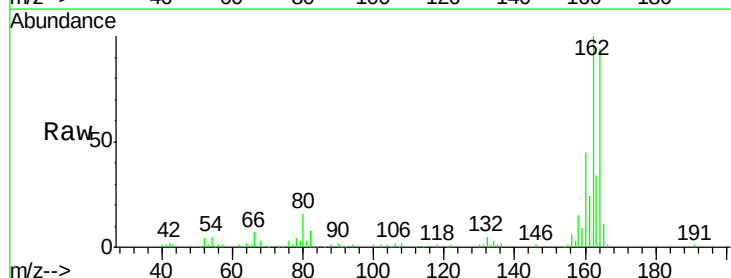
Tgt Ion:154 Resp: 325

Ion Ratio Lower Upper

154 100

153 0.0 91.8 137.6#

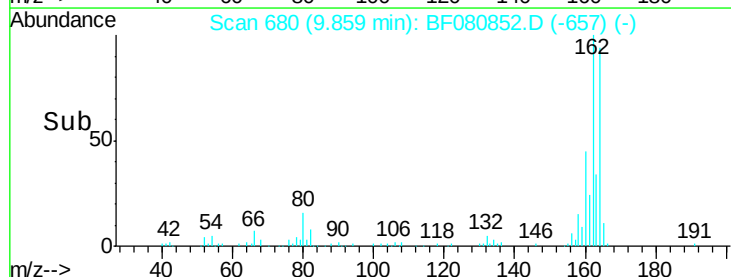
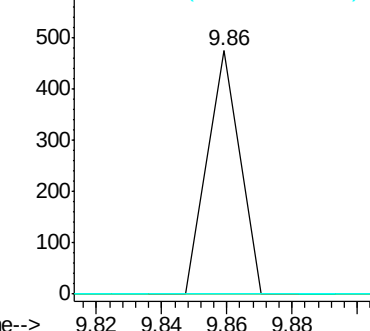
152 0.0 43.2 64.8#

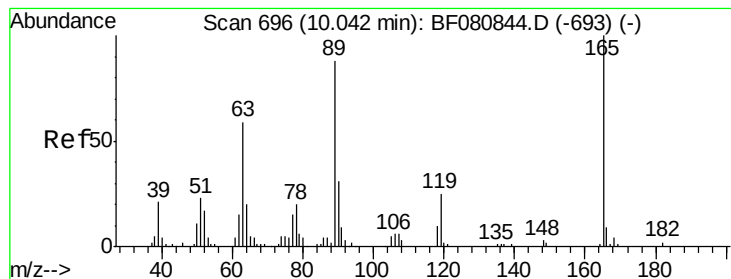


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#56

2,4-Dinitrotoluene

Concen: 6.63 ng

RT: 9.86 min Scan# 680

Delta R.T. -0.18 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:165 Resp: 15315

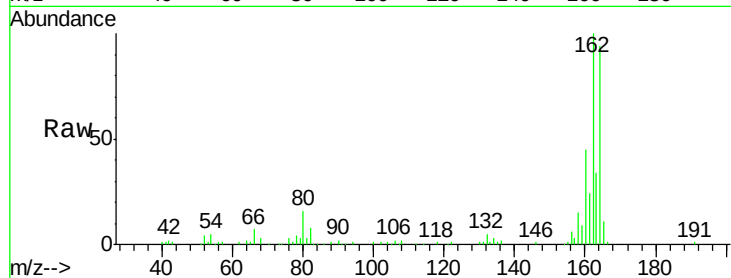
Ion Ratio Lower Upper

165 100

63 0.0 47.2 70.8#

89 0.0 70.2 105.2#

182 0.0 1.5 2.3#

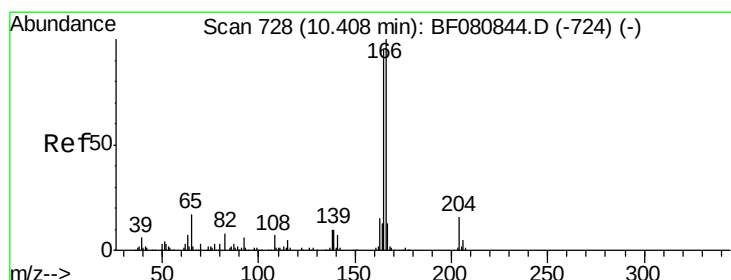
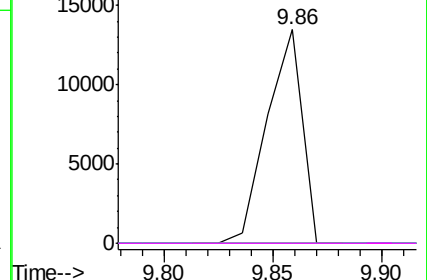
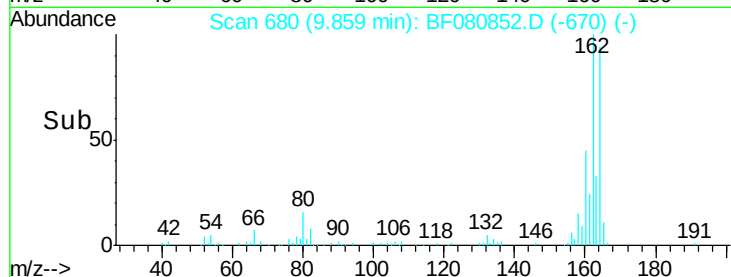


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: 0.45 ng

RT: 10.64 min Scan# 748

Delta R.T. 0.23 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

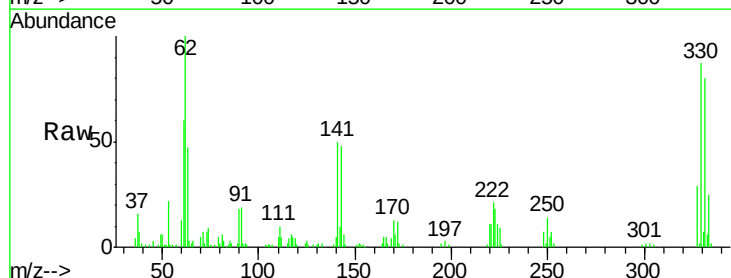
Tgt Ion:166 Resp: 3898

Ion Ratio Lower Upper

166 100

165 101.6 76.2 114.2

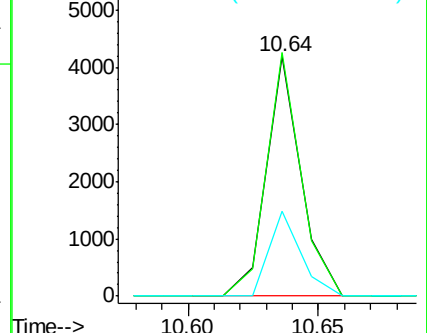
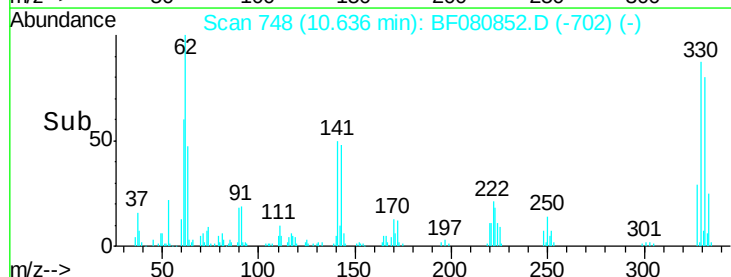
167 35.4 10.4 15.6#

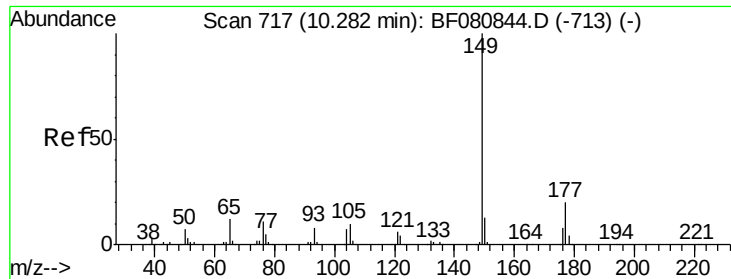


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

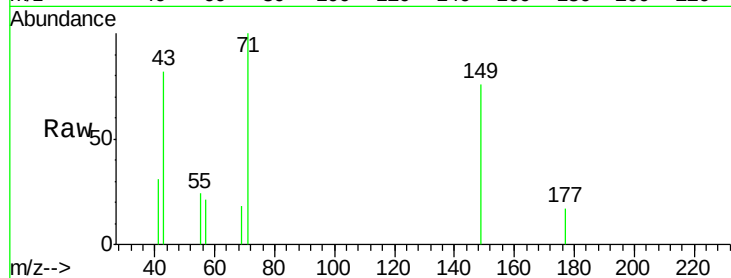




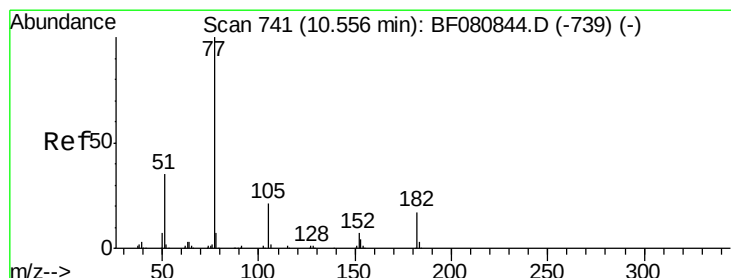
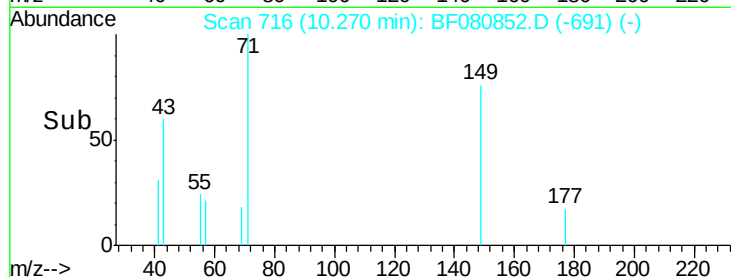
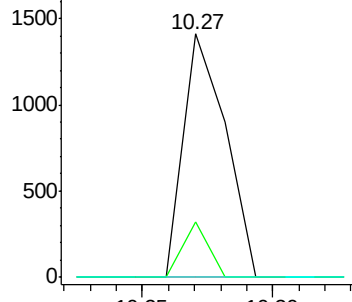
#59  
Diethylphthalate  
Concen: 0.18 ng  
RT: 10.27 min Scan# 716  
Delta R.T. -0.01 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:149 Resp: 1586  
Ion Ratio Lower Upper  
149 100  
177 22.7 15.8 23.8  
150 0.0 10.2 15.2#

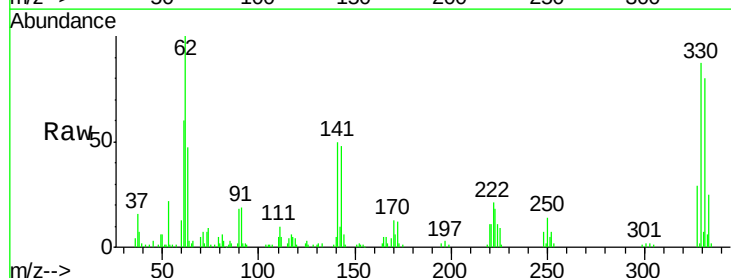


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E

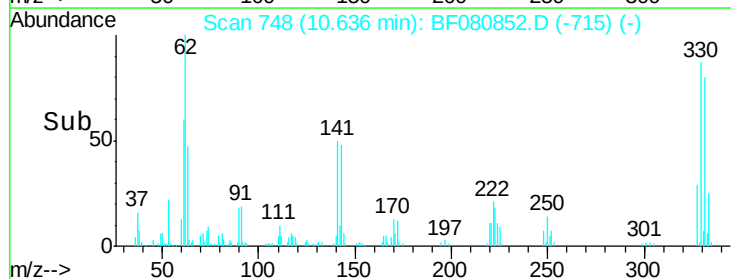
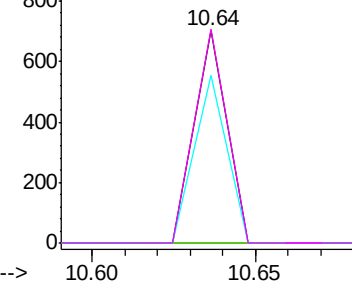


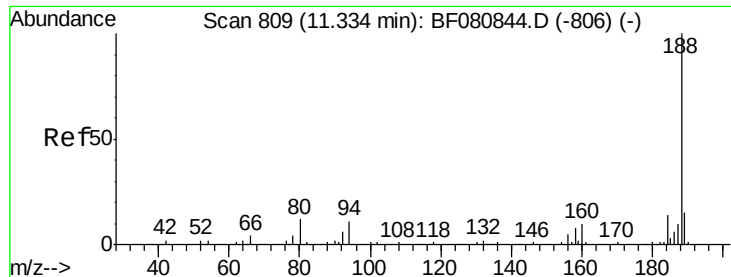
#62  
Azobenzene  
Concen: 0.05 ng  
RT: 10.64 min Scan# 748  
Delta R.T. 0.08 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

Tgt Ion: 77 Resp: 481  
Ion Ratio Lower Upper  
77 100  
182 0.0 0.0 37.0  
105 78.9 1.3 41.3#  
51 100.6 14.6 54.6#



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 182.00 (181.70 to 182.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 51.00 (50.70 to 51.70): BF0

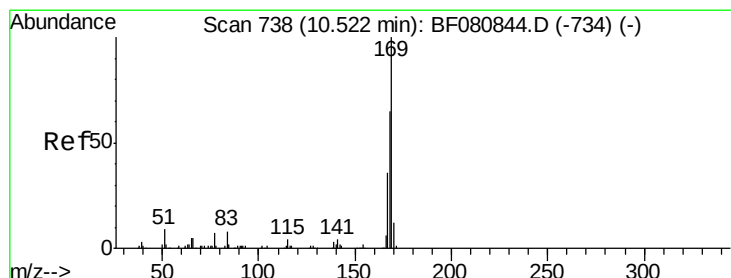
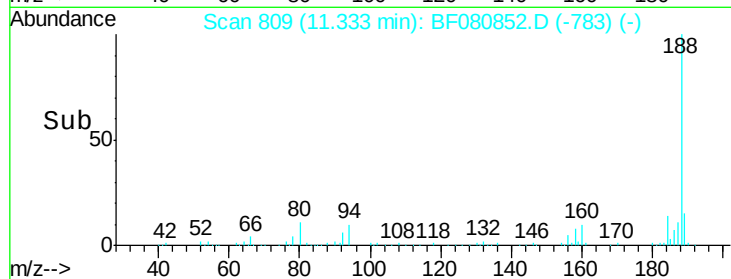
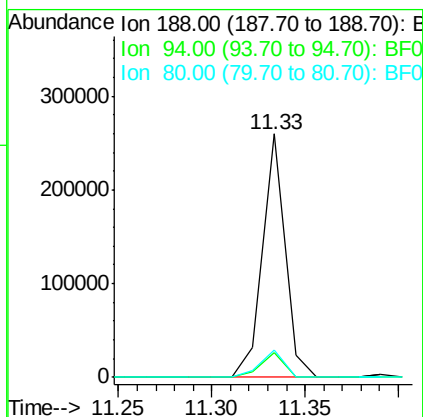
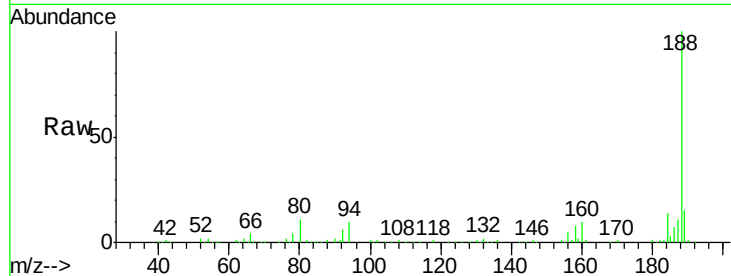




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.33 min Scan# 809  
Delta R.T. -0.00 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

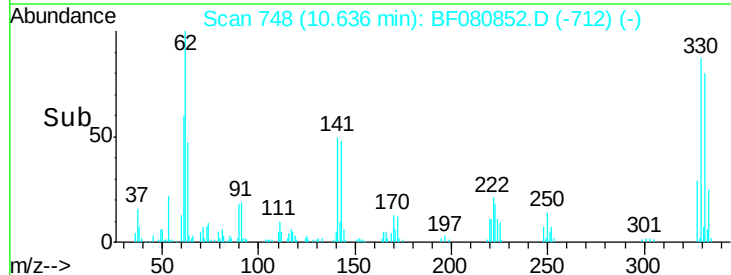
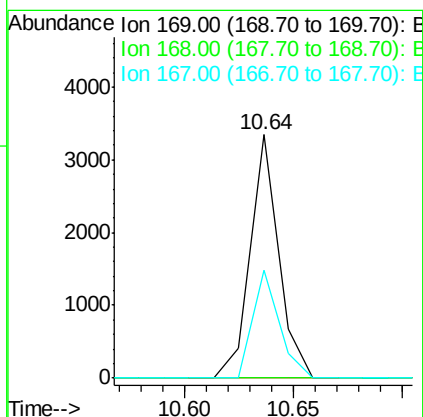
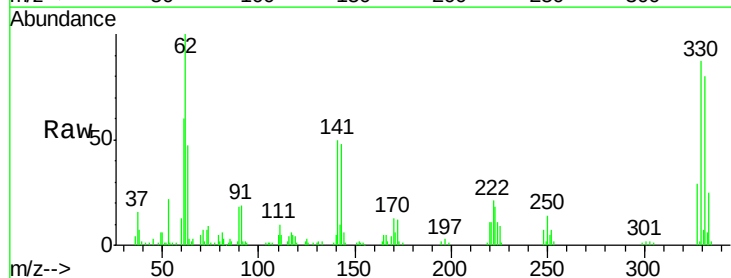
Instrument :  
BNA\_F  
ClientSampleId :

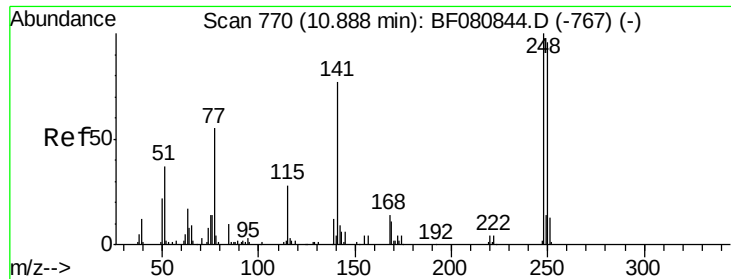
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.3  | 8.6   | 12.8  |
| 80      | 11.2  | 9.3   | 13.9  |



#65  
n-Nitrosodiphenylamine  
Concen: 0.37 ng  
RT: 10.64 min Scan# 748  
Delta R.T. 0.11 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 0.0   | 52.2  | 78.4# |
| 167     | 44.3  | 29.2  | 43.8# |





#66

4-Bromophenyl-phenylether

Concen: 2.34 ng

RT: 10.64 min Scan# 748

Delta R.T. -0.25 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

Instrument :

BNA\_F

ClientSampleId :

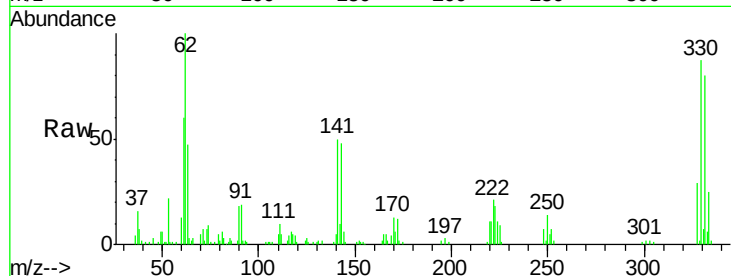
Tot Ion:248 Resp: 5621

Ion Ratio Lower Upper

248 100

250 197.4 77.2 115.8#

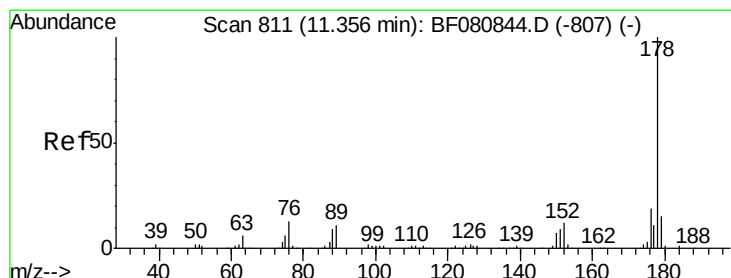
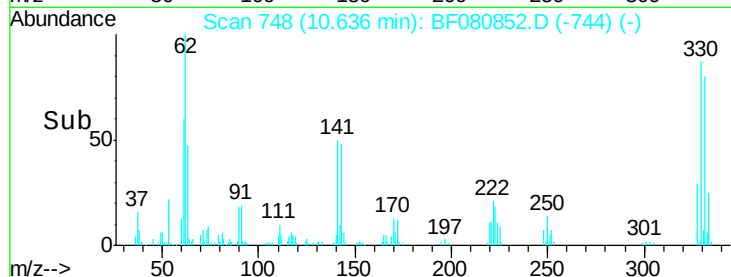
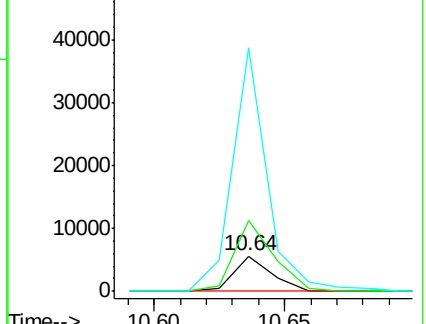
141 684.6 61.4 92.0#



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



#70

Phenanthrene

Concen: 0.05 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.00 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

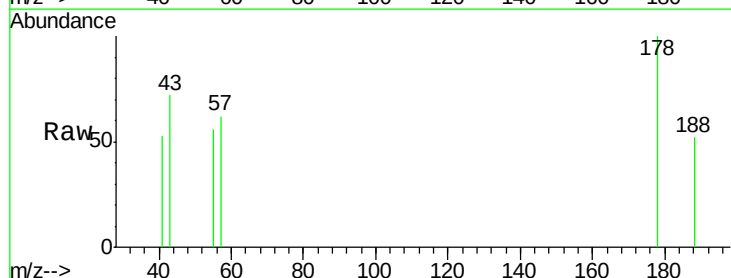
Tgt Ion:178 Resp: 575

Ion Ratio Lower Upper

178 100

176 0.0 15.3 22.9#

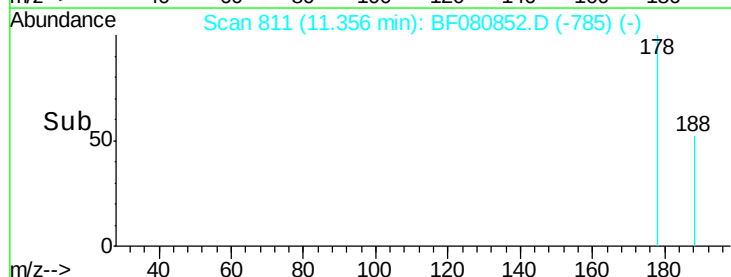
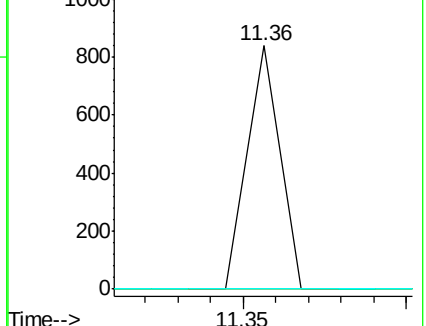
179 0.0 12.3 18.5#

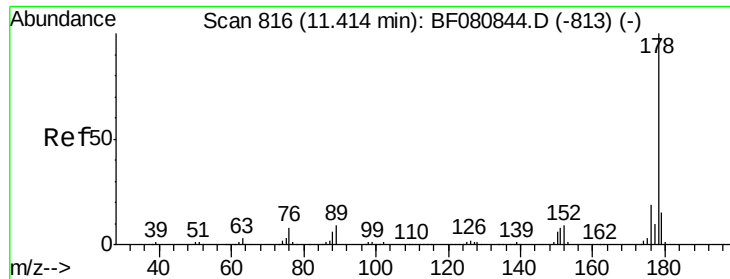


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 0.05 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.06 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

Instrument :

BNA\_F

ClientSampled :

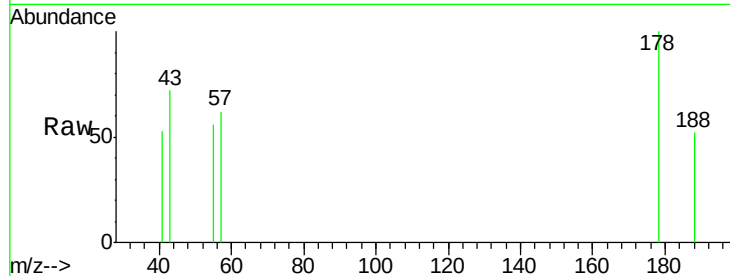
Tot Ion:178 Resp: 575

Ion Ratio Lower Upper

178 100

176 0.0 15.4 23.2#

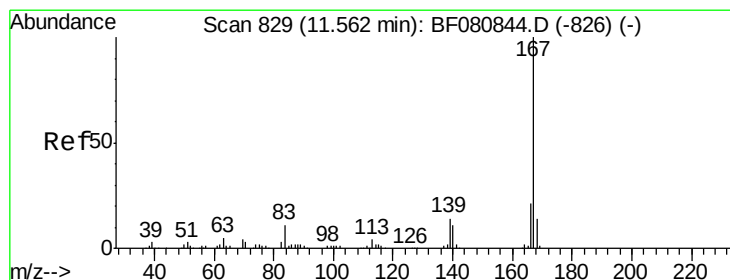
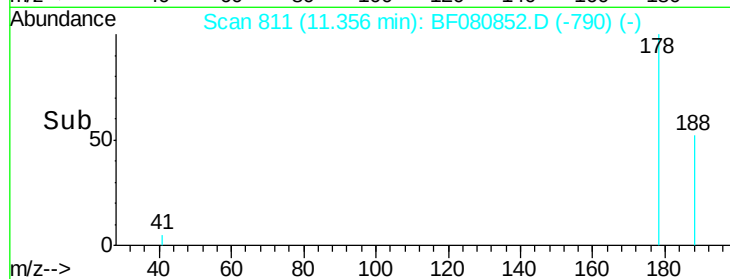
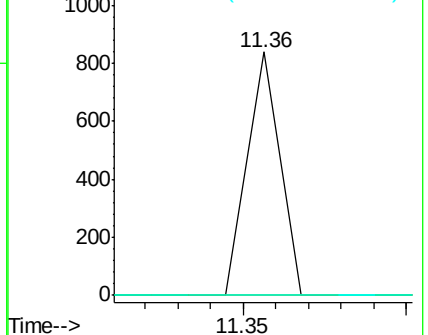
179 0.0 12.2 18.4#



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



#72

Carbazole

Concen: 0.03 ng

RT: 11.50 min Scan# 824

Delta R.T. -0.06 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

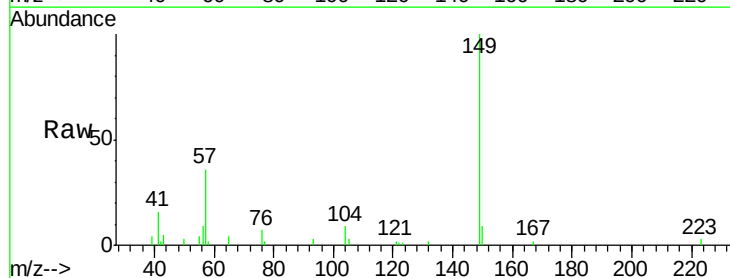
Tgt Ion:167 Resp: 398

Ion Ratio Lower Upper

167 100

166 0.0 16.6 25.0#

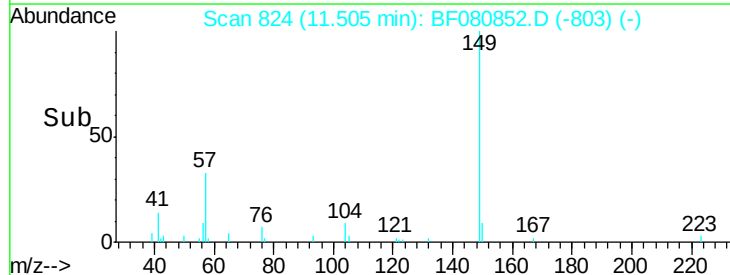
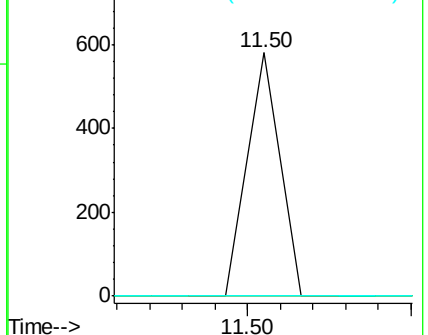
139 0.0 11.3 16.9#

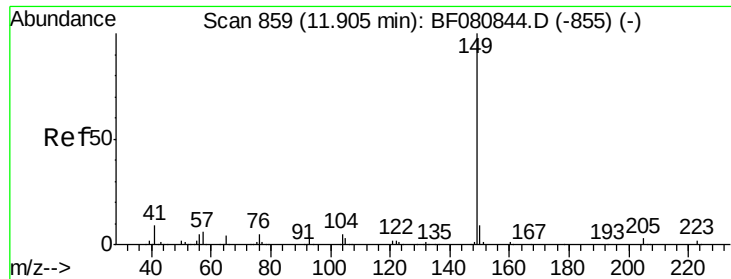


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#73

Di-n-butylphthalate

Concen: 0.09 ng

RT: 11.90 min Scan# 859

Delta R.T. -0.00 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

Instrument :

BNA\_F

ClientSampleId :

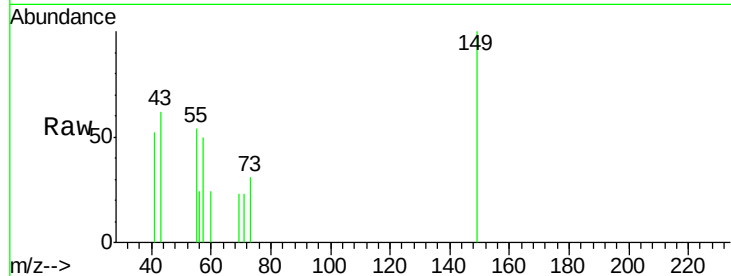
Tot Ion:149 Resp: 1173

Ion Ratio Lower Upper

149 100

150 0.0 7.4 11.2#

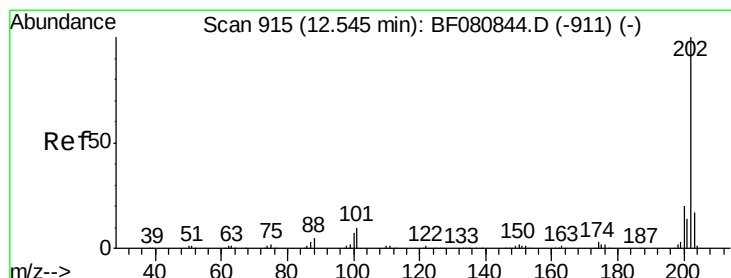
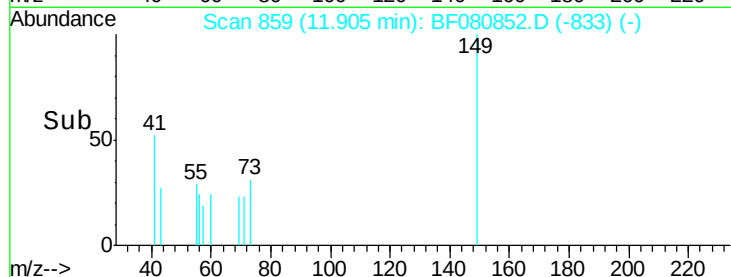
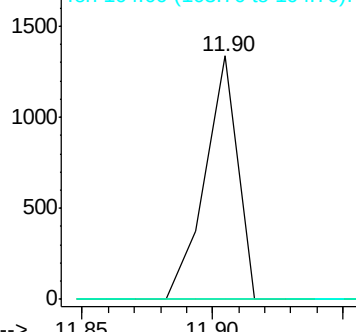
104 0.0 3.9 5.9#



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: 0.05 ng

RT: 12.54 min Scan# 915

Delta R.T. -0.00 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

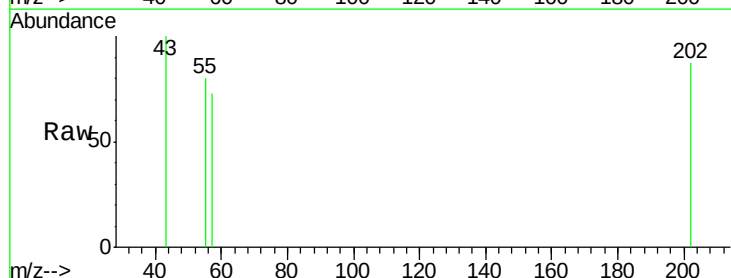
Tgt Ion:202 Resp: 564

Ion Ratio Lower Upper

202 100

101 0.0 0.0 29.9

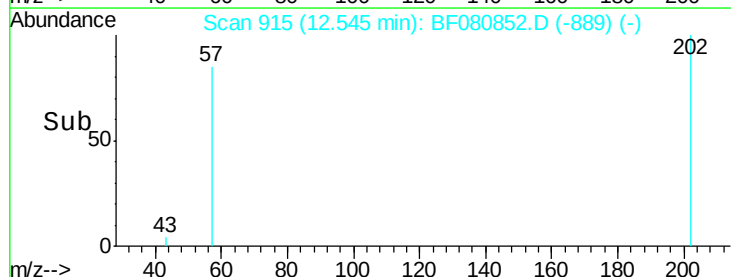
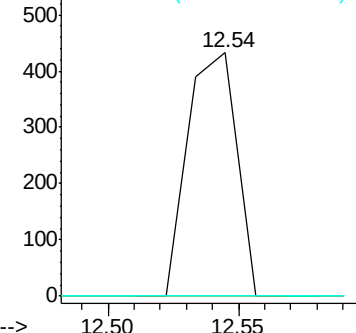
203 0.0 0.0 37.4

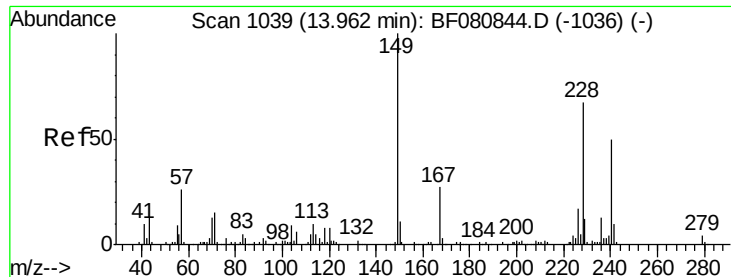


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.96 min Scan# 1039

Delta R.T. -0.00 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

Instrument :

BNA\_F

ClientSampleId :

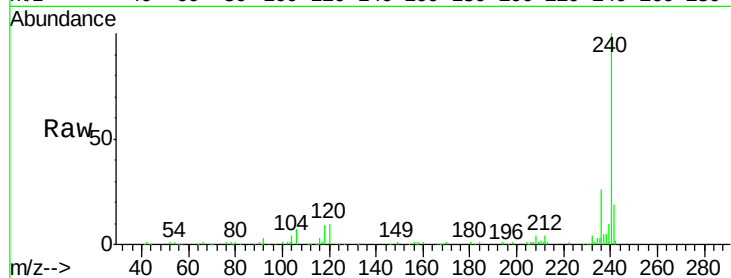
Tot Ion:240 Resp: 150636

Ion Ratio Lower Upper

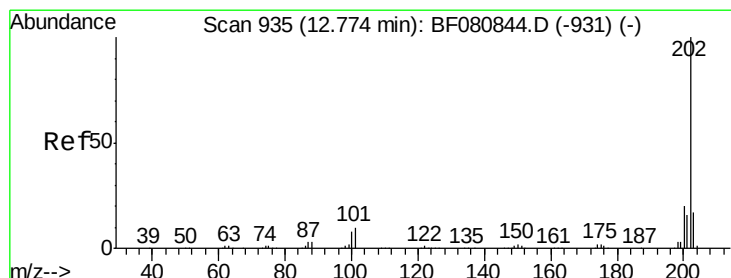
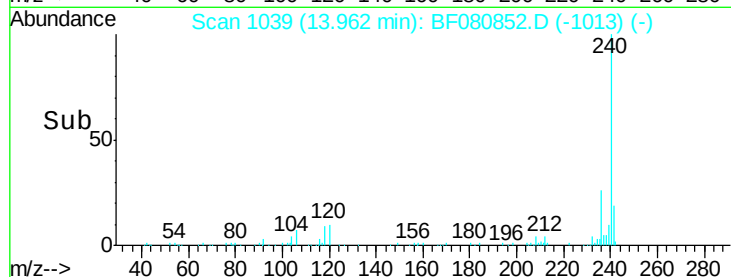
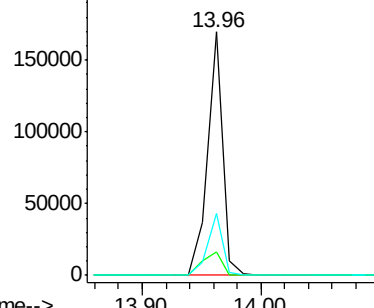
240 100

120 9.9 13.0 19.6#

236 25.5 20.7 31.1



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



#77

Pyrene

Concen: 0.02 ng

RT: 12.76 min Scan# 934

Delta R.T. -0.01 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

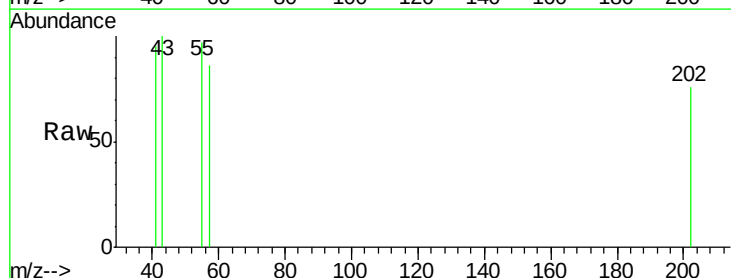
Tgt Ion:202 Resp: 239

Ion Ratio Lower Upper

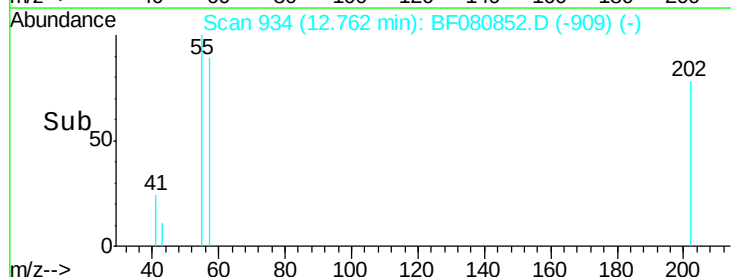
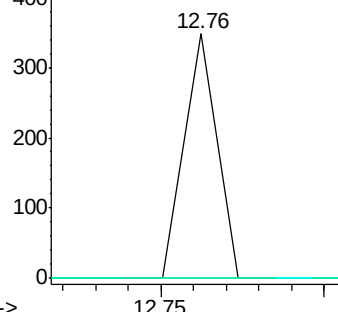
202 100

200 0.0 16.1 24.1#

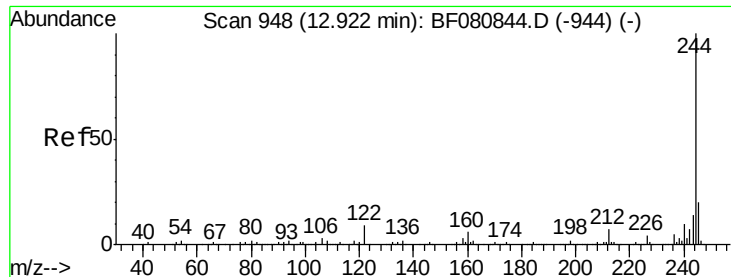
203 0.0 13.6 20.4#



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



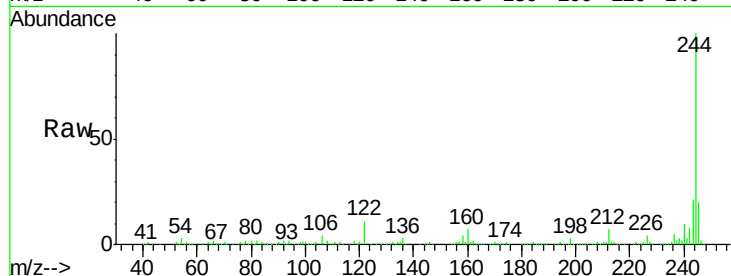




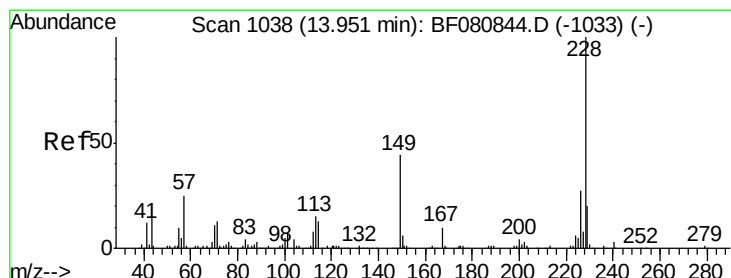
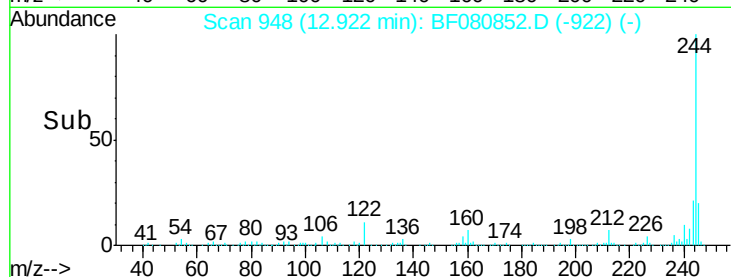
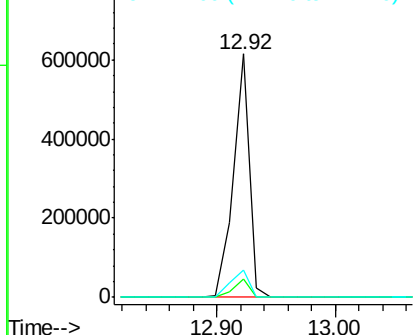
#78  
 Terphenyl-d14  
 Concen: 68.68 ng  
 RT: 12.92 min Scan# 948  
 Delta R.T. -0.00 min  
 Lab File: BF080852.D  
 Acq: 4 Aug 2015 22:23

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 571616  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 5.5 8.3  
 122 11.4 7.1 10.7#

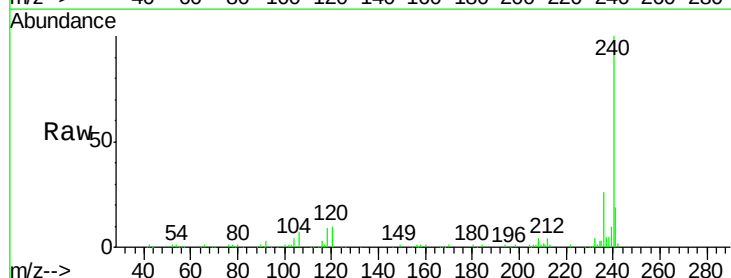


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E

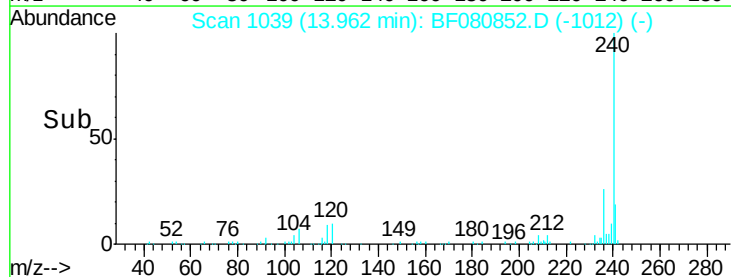
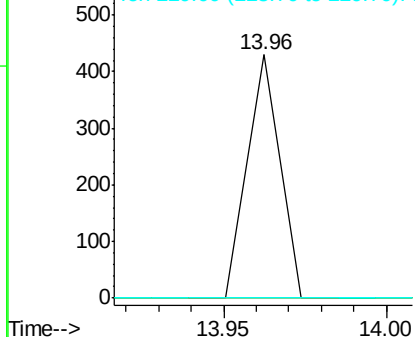


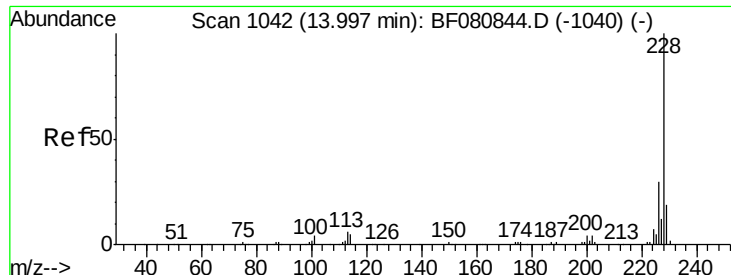
#80  
 Benzo(a)anthracene  
 Concen: 0.03 ng  
 RT: 13.96 min Scan# 1039  
 Delta R.T. 0.01 min  
 Lab File: BF080852.D  
 Acq: 4 Aug 2015 22:23

Tgt Ion:228 Resp: 295  
 Ion Ratio Lower Upper  
 228 100  
 226 0.0 21.5 32.3#  
 229 0.0 16.2 24.2#



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





#82

Chrysene

Concen: 0.03 ng

RT: 13.96 min Scan# 1039

Delta R.T. -0.03 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

Instrument :

BNA\_F

ClientSampleId :

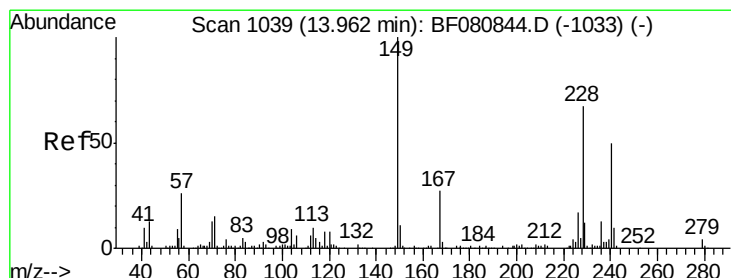
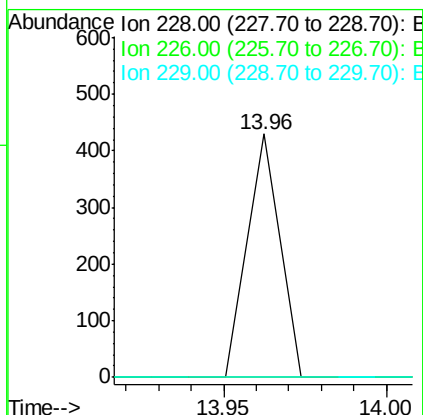
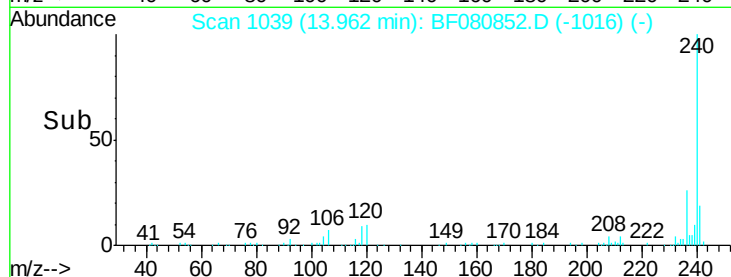
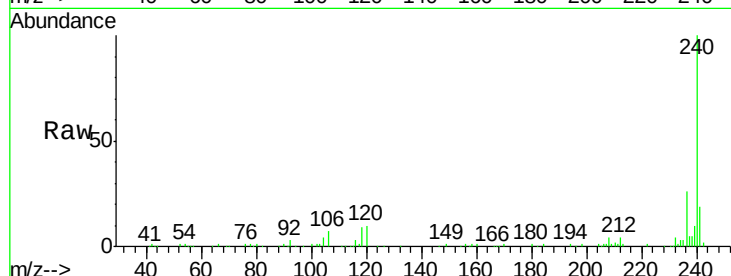
Tot Ion:228 Resp: 295

Ion Ratio Lower Upper

228 100

226 0.0 23.6 35.4#

229 0.0 15.1 22.7#



#83

Bis(2-ethylhexyl)phthalate

Concen: 0.24 ng

RT: 13.95 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

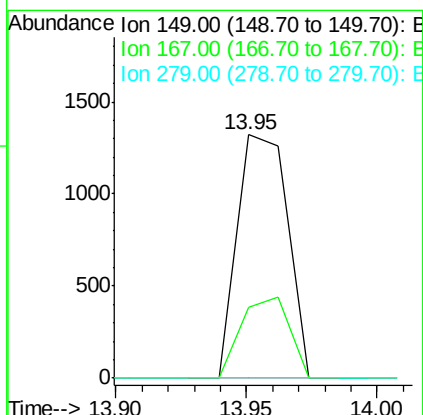
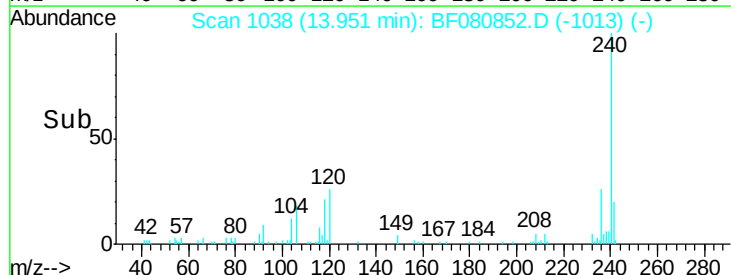
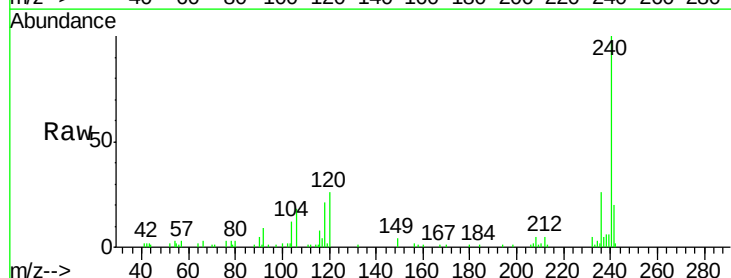
Tgt Ion:149 Resp: 1772

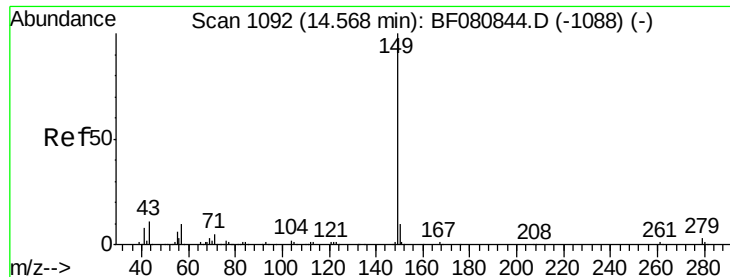
Ion Ratio Lower Upper

149 100

167 29.0 21.8 32.8

279 0.0 3.0 4.4#

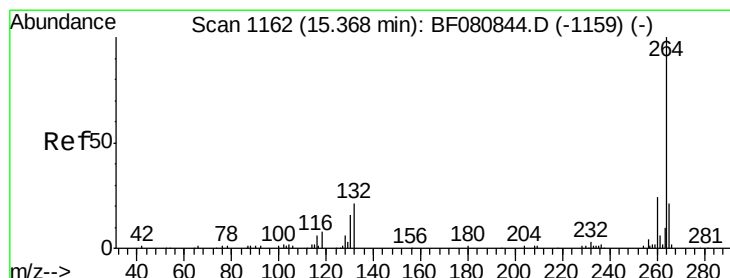
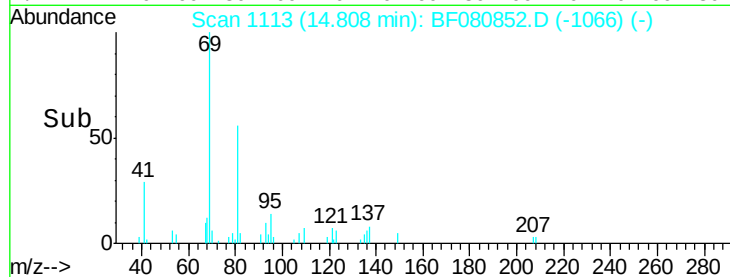
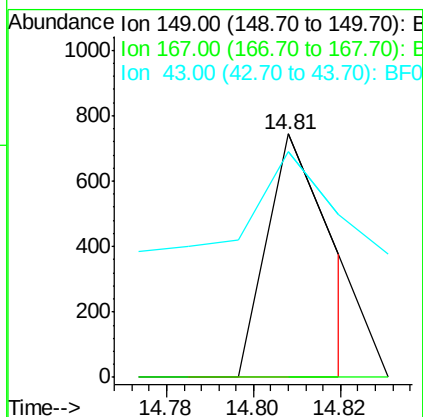
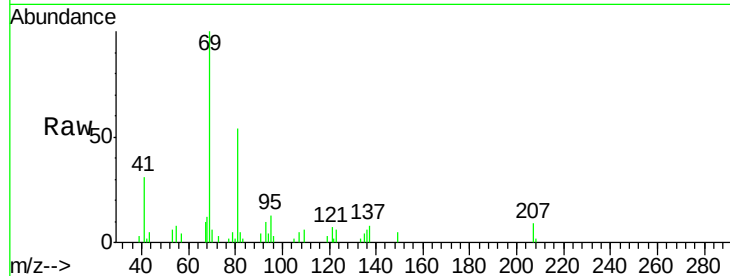




#84  
Di-n-octyl phthalate  
Concen: 0.06 ng  
RT: 14.81 min Scan# 1113  
Delta R.T. 0.24 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

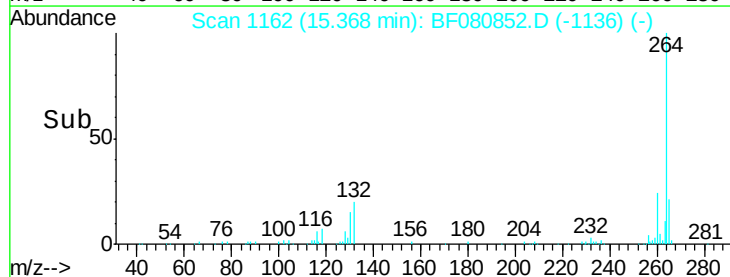
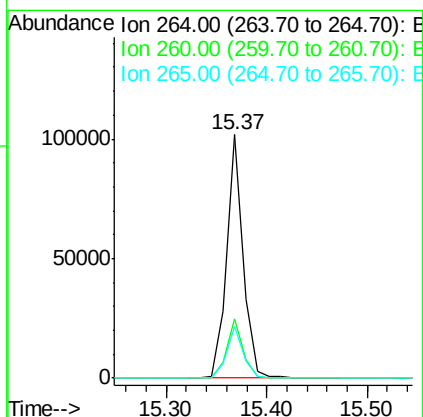
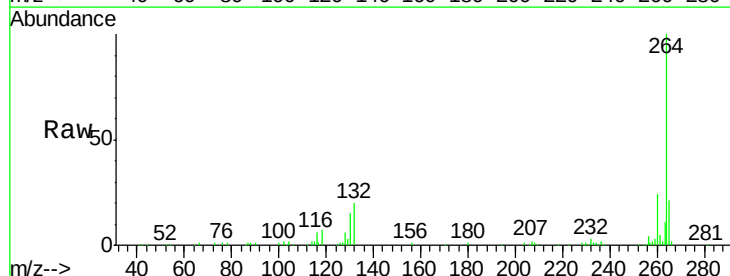
Instrument :  
BNA\_F  
ClientSampled :

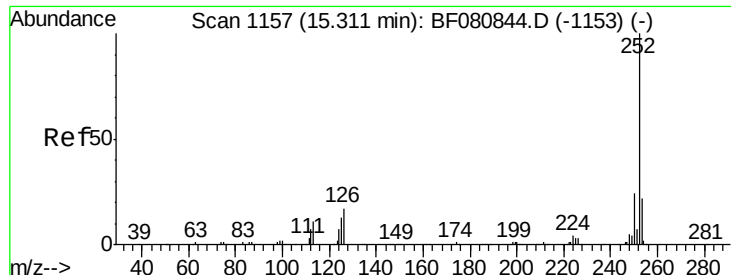
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 0.0   | 1.1   | 1.7#  |
| 43      | 42.2  | 10.3  | 15.5# |



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.37 min Scan# 1162  
Delta R.T. -0.00 min  
Lab File: BF080852.D  
Acq: 4 Aug 2015 22:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 18.9  | 28.3  |
| 265     | 21.4  | 16.8  | 25.2  |





#89

Benzo(a)pyrene

Concen: 0.03 ng

RT: 15.37 min Scan# 1162

Delta R.T. 0.06 min

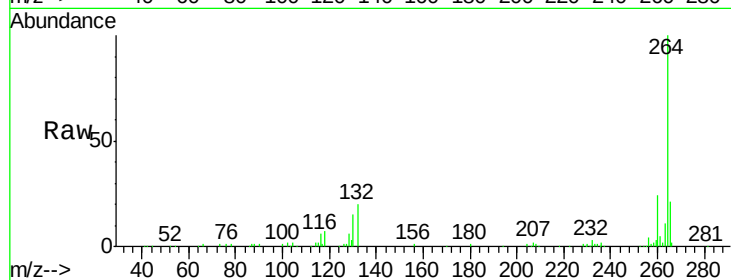
Lab File: BF080852.D

Acq: 4 Aug 2015 22:23

Instrument :

BNA\_F

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 252   | Resp: | 220   |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 0.0   | 17.4  | 26.0# |
| 125      | 0.0   | 10.6  | 16.0# |

