

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102416\  
 Data File : BF090793.D  
 Acq On : 24 Oct 2016 17:53  
 Operator : UM/SJ  
 Sample : H5357-02  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 IDW-Z5-B545-161019

Quant Time: Oct 24 18:49:57 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 21 17:36:31 2016  
 Response via : Initial Calibration

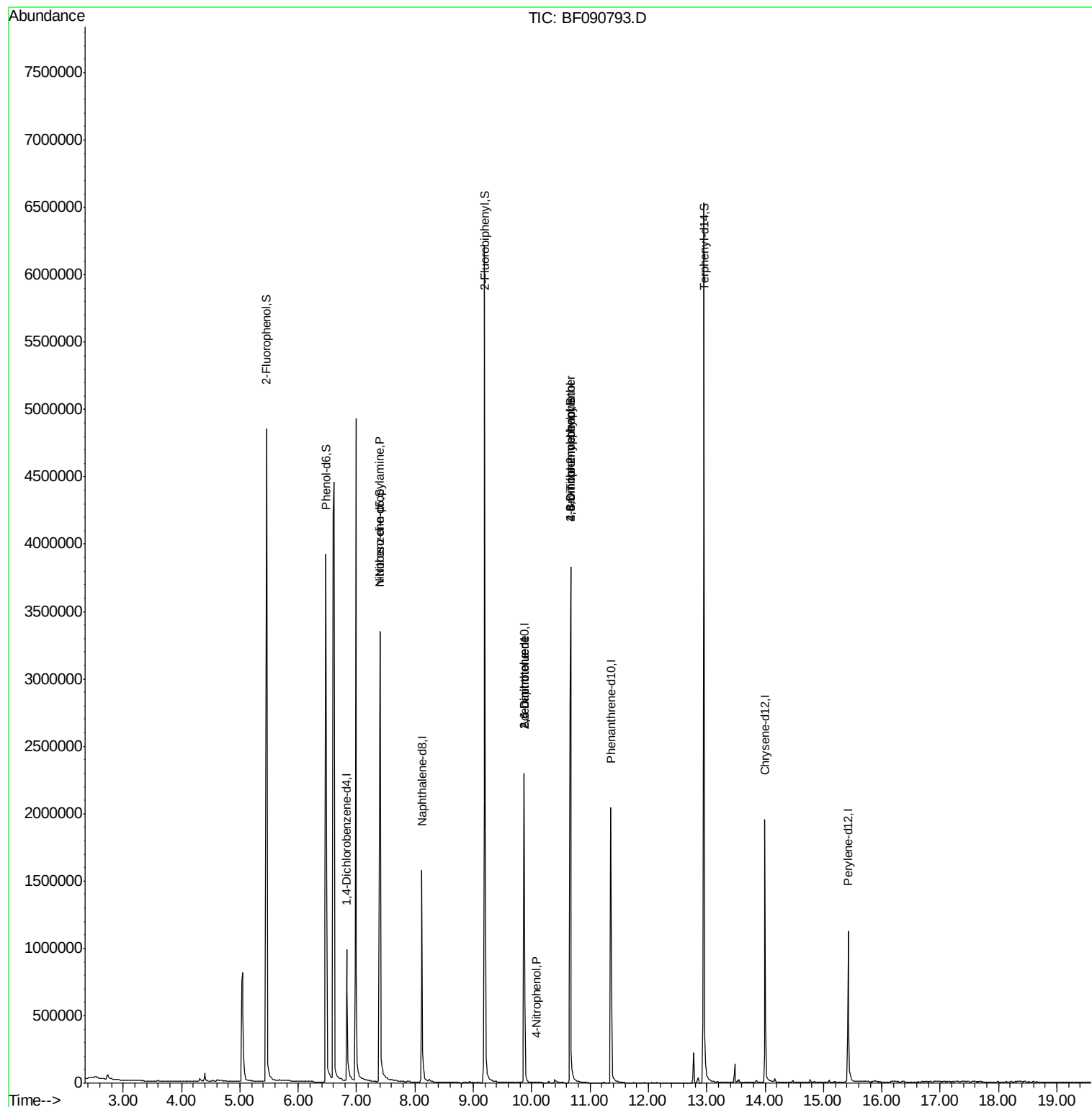
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.83  | 152  | 231696   | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 8.12  | 136  | 1000815  | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.87  | 164  | 543890   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10           | 11.35 | 188  | 897299   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12               | 14.00 | 240  | 710463   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.42 | 264  | 512847   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 1704909  | 118.67 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.47  | 99   | 2022164  | 103.92 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 1537829  | 84.28  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.67 | 330  | 778714   | 180.89 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.19  | 172  | 2536562  | 72.40  | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.96 | 244  | 2859918  | 92.26  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 202907   | 14.00  | ng    | # 51     |
| 50) 2,6-Dinitrotoluene         | 9.87  | 165  | 69318    | 9.43   | ng    | # 39     |
| 55) 4-Nitrophenol              | 10.09 | 139  | 341      | 6.00   | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 9.87  | 165  | 70200    | 7.81   | ng    | # 33     |
| 64) 4,6-Dinitro-2-methylphenol | 10.67 | 198  | 1363     | 4.39   | ng    | # 20     |
| 66) 4-Bromophenyl-phenylether  | 10.67 | 248  | 53233    | 6.12   | ng    | # 1      |

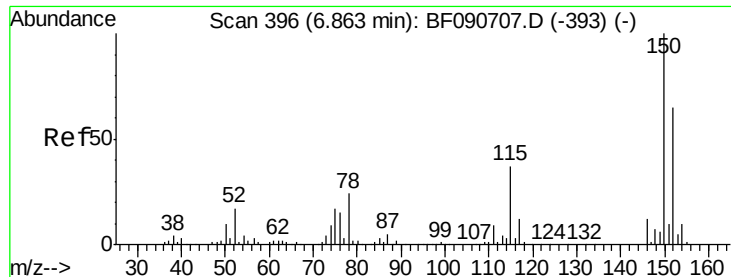
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102416\  
Data File : BF090793.D  
Acq On : 24 Oct 2016 17:53  
Operator : UM/SJ  
Sample : H5357-02  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
IDW-Z5-B545-161019

Quant Time: Oct 24 18:49:57 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 21 17:36:31 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 393

Delta R.T. -0.03 min

Lab File: BF090793.D

Acq: 24 Oct 2016 17:53

Instrument :

BNA\_F

ClientSampleId :

IDW-Z5-B545-161019

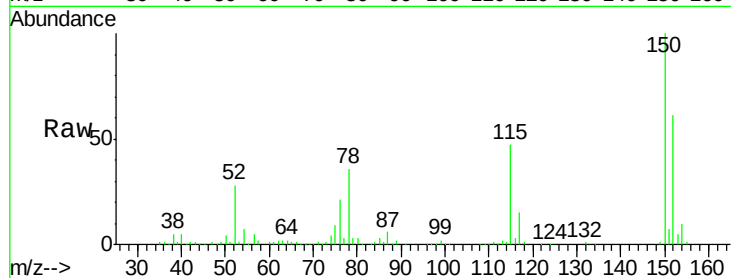
Tot Ion:152 Resp: 231696

Ion Ratio Lower Upper

152 100

150 162.7 124.7 187.1

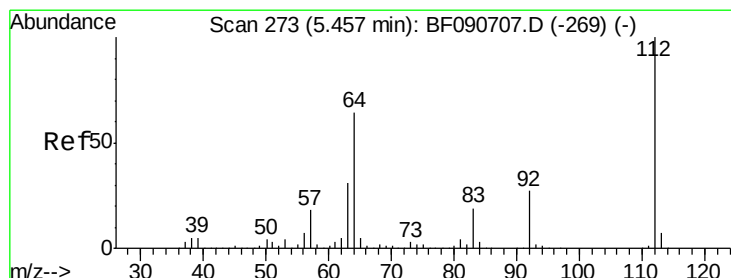
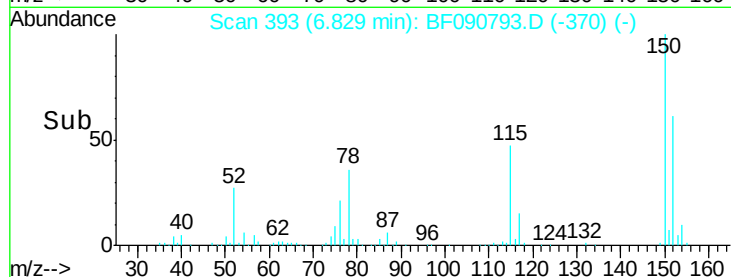
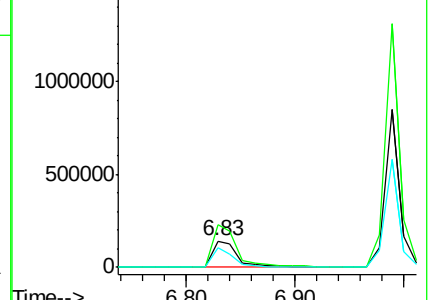
115 75.9 39.0 58.4#



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: 118.67 ng

RT: 5.46 min Scan# 273

Delta R.T. 0.00 min

Lab File: BF090793.D

Acq: 24 Oct 2016 17:53

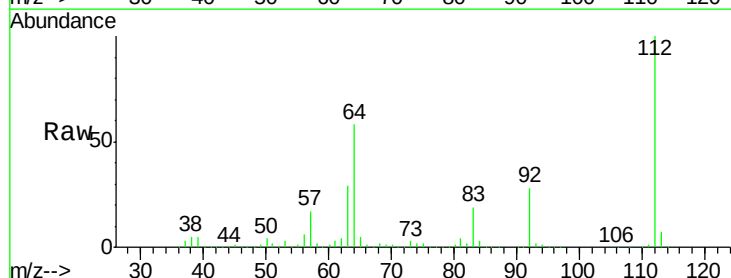
Tgt Ion:112 Resp: 1704909

Ion Ratio Lower Upper

112 100

64 58.2 39.7 59.5

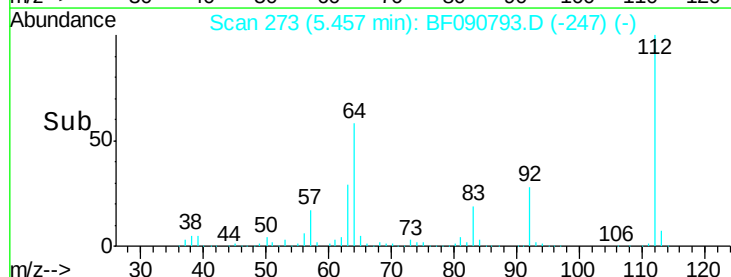
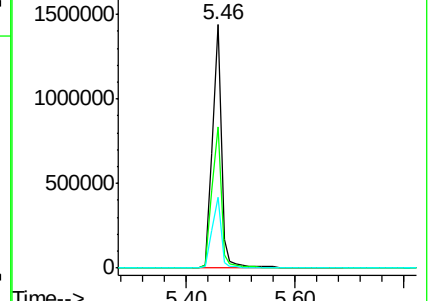
63 29.1 17.4 26.0#

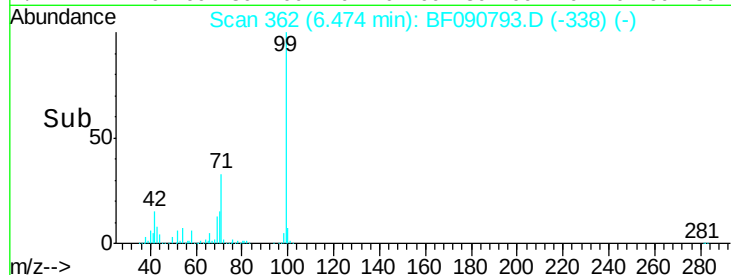
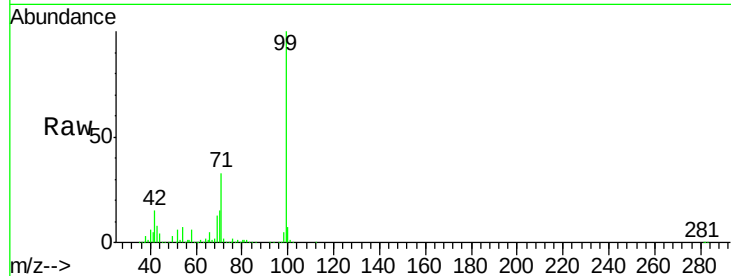
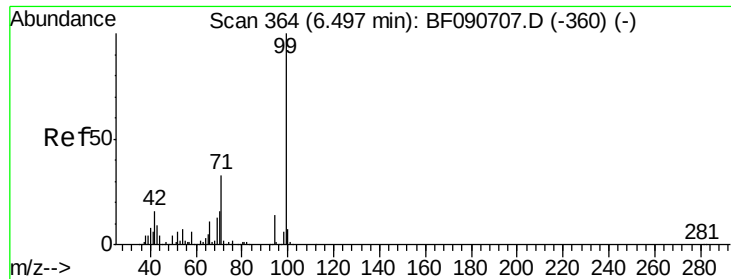


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 103.92 ng

RT: 6.47 min Scan# 362

Delta R.T. -0.02 min

Lab File: BF090793.D

Acq: 24 Oct 2016 17:53

Instrument :

BNA\_F

ClientSampleId :

IDW-Z5-B545-161019

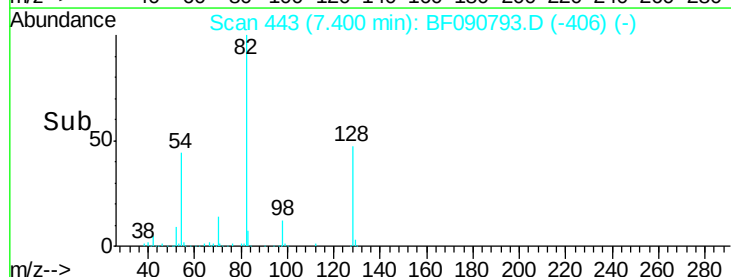
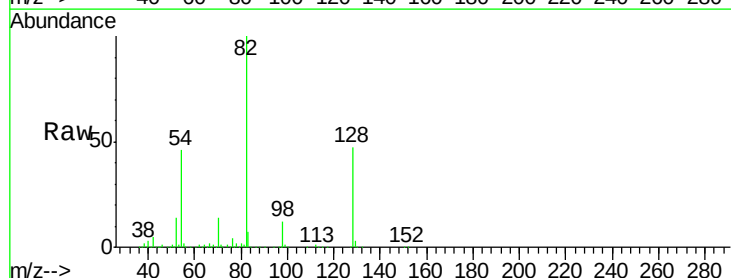
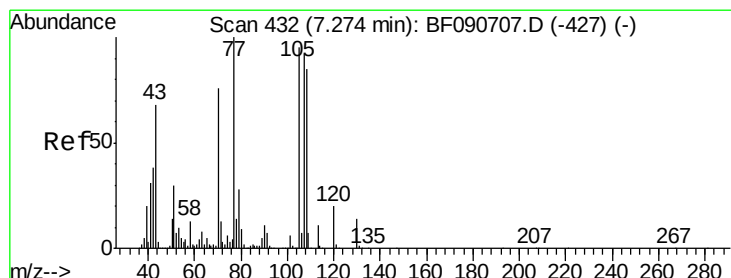
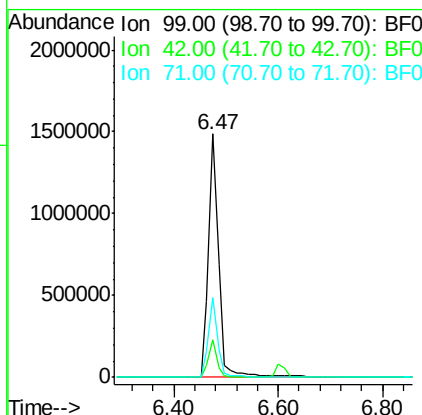
Tot Ion: 99 Resp: 2022164

Ion Ratio Lower Upper

99 100

42 15.4 13.7 20.5

71 32.7 14.2 21.2#



#19

n-Nitroso-di-n-propylamine

Concen: 14.00 ng

RT: 7.40 min Scan# 443

Delta R.T. 0.13 min

Lab File: BF090793.D

Acq: 24 Oct 2016 17:53

Tgt Ion: 70 Resp: 202907

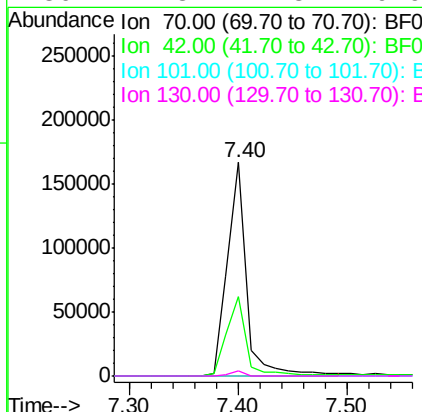
Ion Ratio Lower Upper

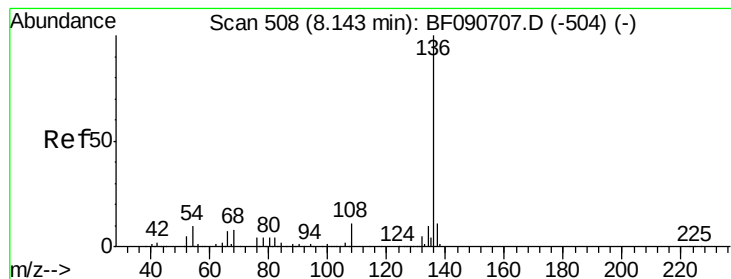
70 100

42 37.1 63.8 95.6#

101 0.0 9.2 13.8#

130 2.3 27.3 40.9#

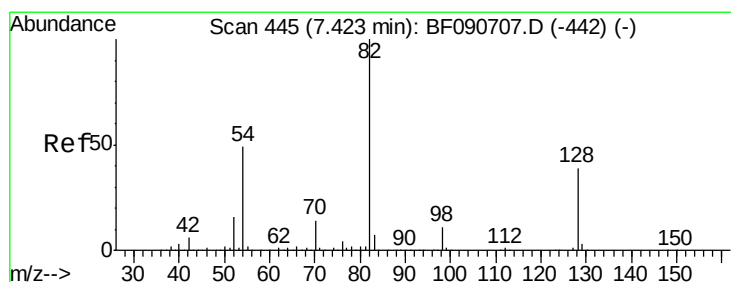
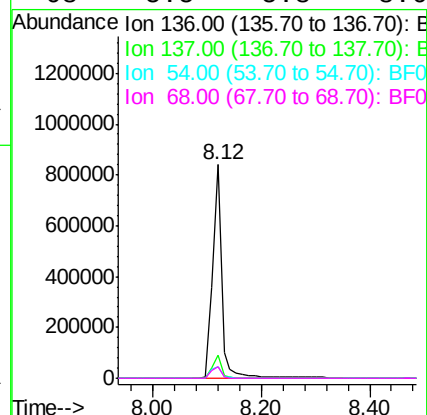
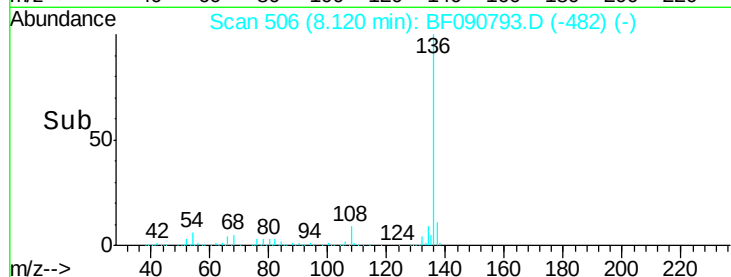
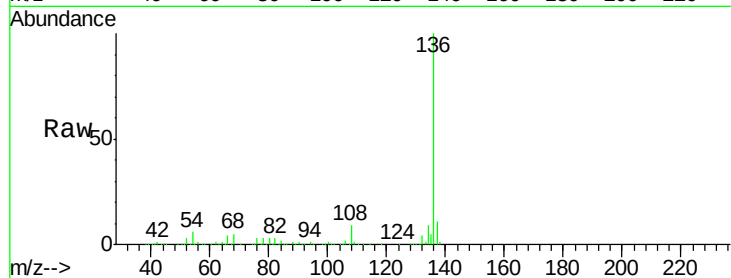




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.12 min Scan# 506  
Delta R.T. -0.02 min  
Lab File: BF090793.D  
Acq: 24 Oct 2016 17:53

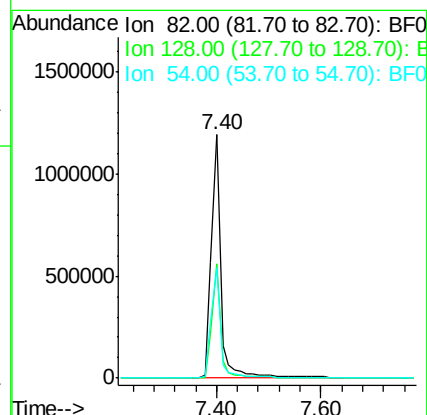
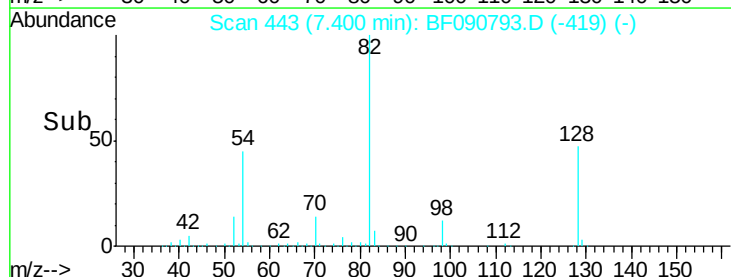
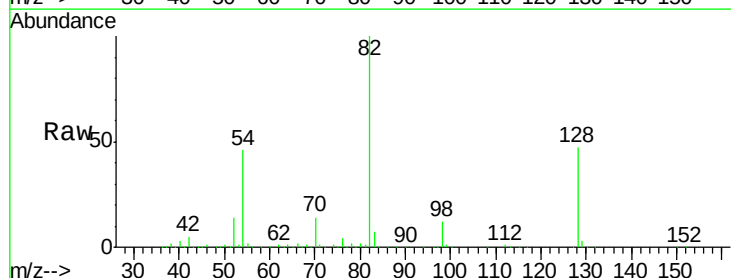
Instrument :  
BNA\_F  
ClientSampleId :  
IDW-Z5-B545-161019

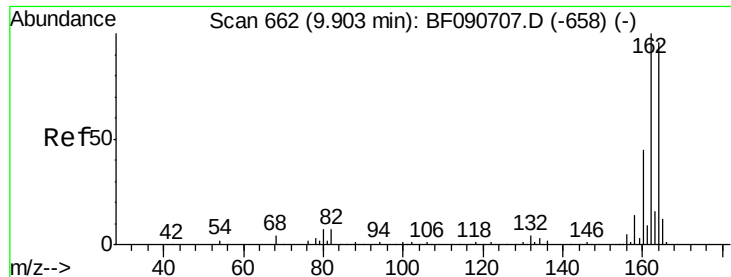
Tot Ion:136 Resp: 1000815  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.0 13.6  
54 5.6 8.2 12.2#  
68 5.5 5.8 8.6#



#23  
Nitrobenzene-d5  
Concen: 84.28 ng  
RT: 7.40 min Scan# 443  
Delta R.T. -0.02 min  
Lab File: BF090793.D  
Acq: 24 Oct 2016 17:53

Tgt Ion: 82 Resp: 1537829  
Ion Ratio Lower Upper  
82 100  
128 47.0 51.0 76.6#  
54 45.5 47.5 71.3#

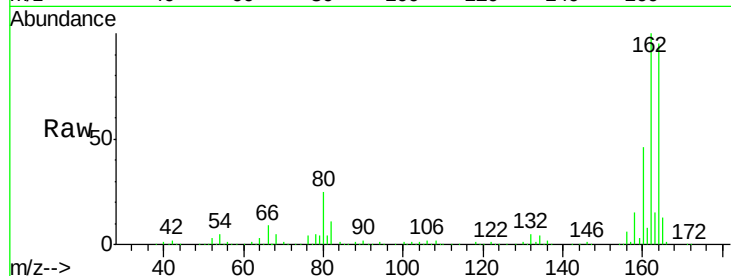




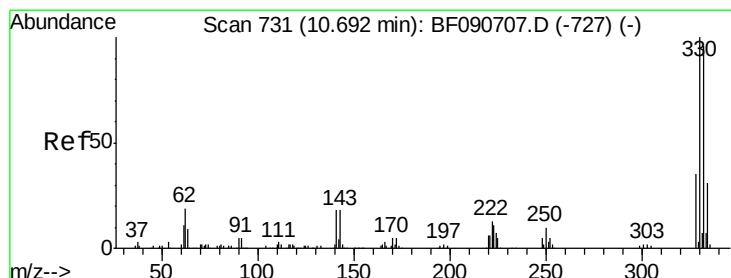
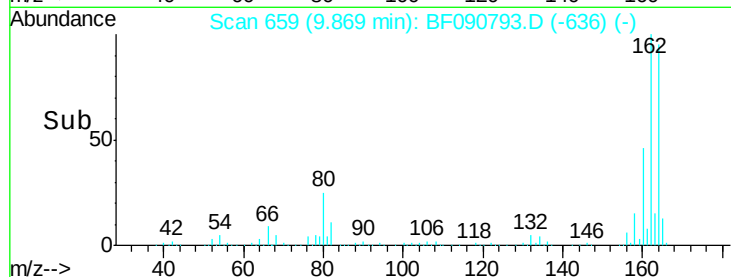
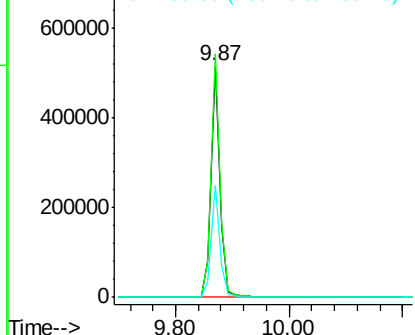
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.87 min Scan# 659  
 Delta R.T. -0.03 min  
 Lab File: BF090793.D  
 Acq: 24 Oct 2016 17:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 IDW-Z5-B545-161019

Tot Ion:164 Resp: 543890  
 Ion Ratio Lower Upper  
 164 100  
 162 105.4 75.2 112.8  
 160 48.5 31.5 47.3#

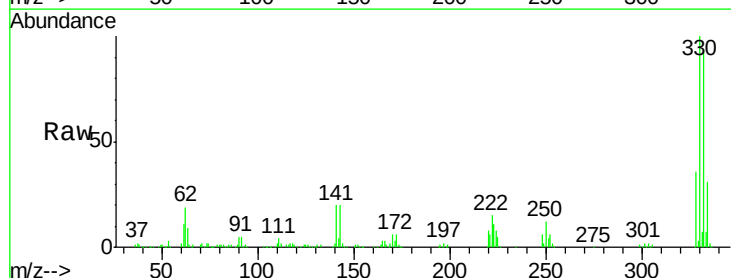


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

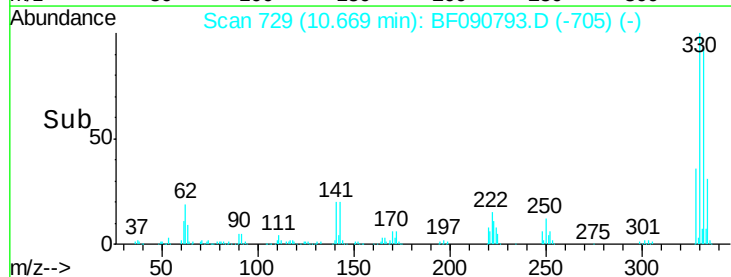
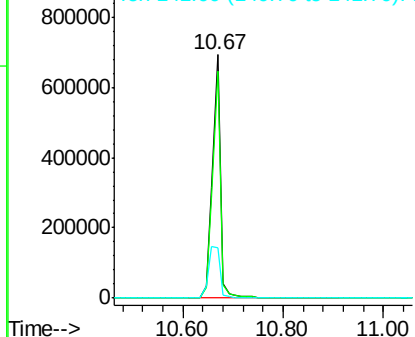


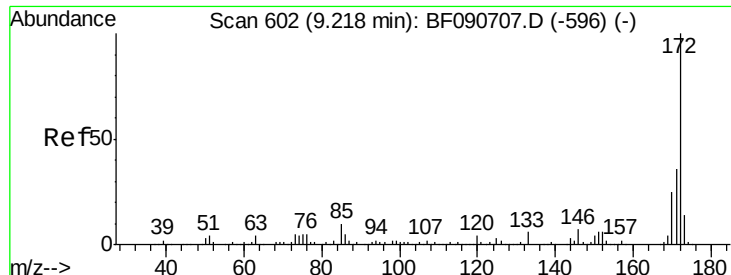
#41  
 2,4,6-Tribromophenol  
 Concen: 180.89 ng  
 RT: 10.67 min Scan# 729  
 Delta R.T. -0.02 min  
 Lab File: BF090793.D  
 Acq: 24 Oct 2016 17:53

Tgt Ion:330 Resp: 778714  
 Ion Ratio Lower Upper  
 330 100  
 332 93.4 76.6 114.8  
 141 31.1 29.7 44.5



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

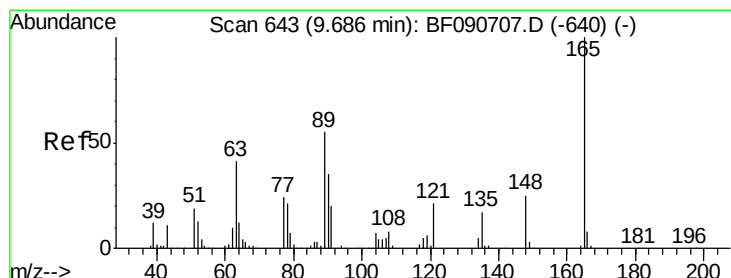
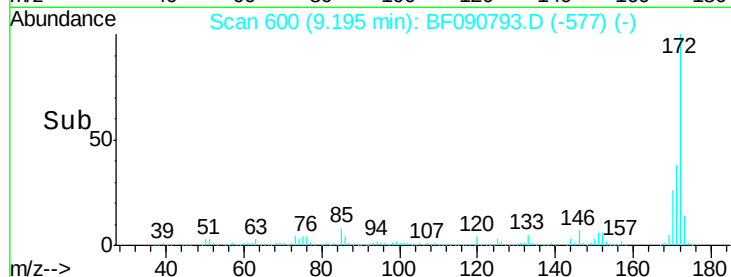
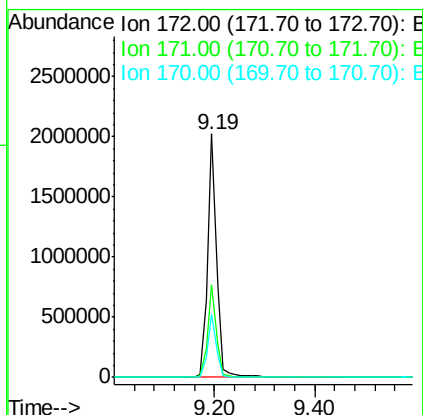
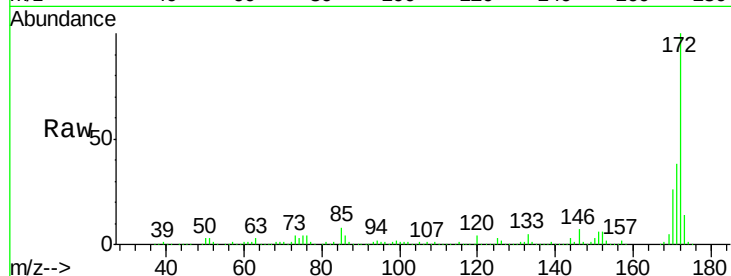




#44  
 2-Fluorobiphenyl  
 Concen: 72.40 ng  
 RT: 9.19 min Scan# 600  
 Delta R.T. -0.03 min  
 Lab File: BF090793.D  
 Acq: 24 Oct 2016 17:53

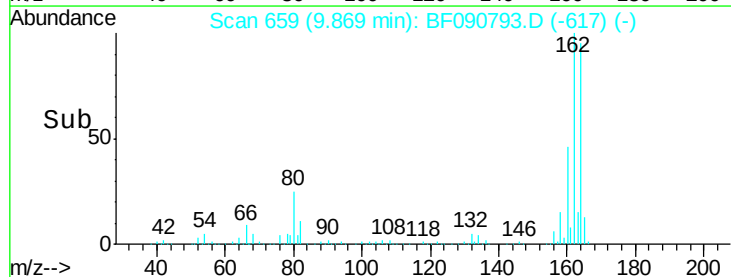
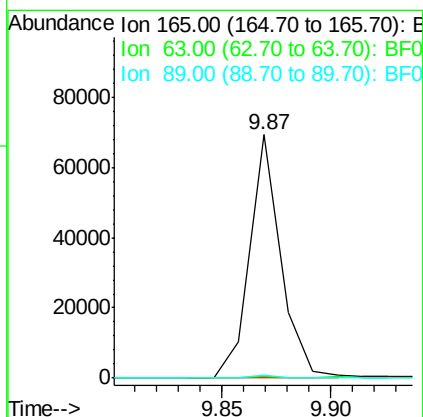
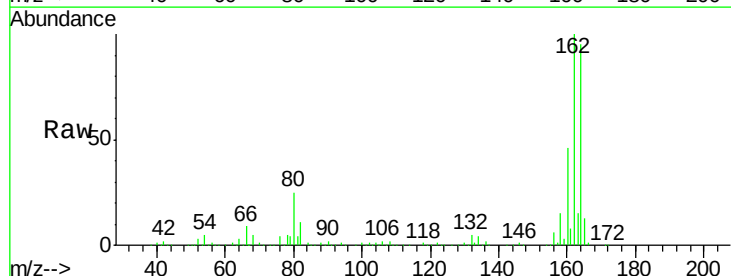
Instrument :  
 BNA\_F  
 ClientSampleId :  
 IDW-Z5-B545-161019

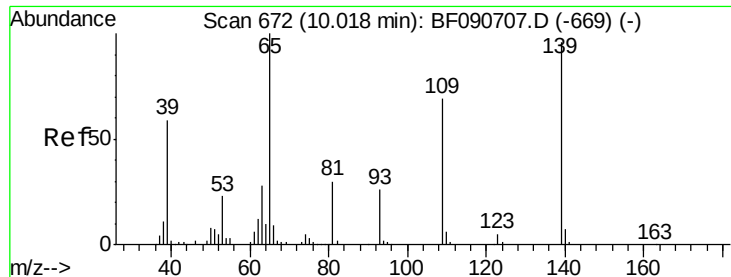
Tot Ion:172 Resp: 2536562  
 Ion Ratio Lower Upper  
 172 100  
 171 37.9 26.1 39.1  
 170 26.0 17.4 26.2



#50  
 2,6-Dinitrotoluene  
 Concen: 9.43 ng  
 RT: 9.87 min Scan# 659  
 Delta R.T. 0.18 min  
 Lab File: BF090793.D  
 Acq: 24 Oct 2016 17:53

Tgt Ion:165 Resp: 69318  
 Ion Ratio Lower Upper  
 165 100  
 63 0.9 32.3 48.5#  
 89 1.2 28.6 43.0#

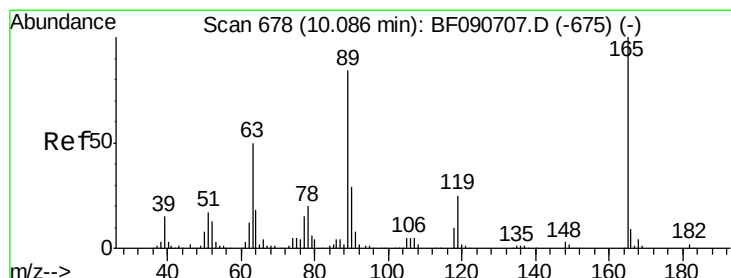
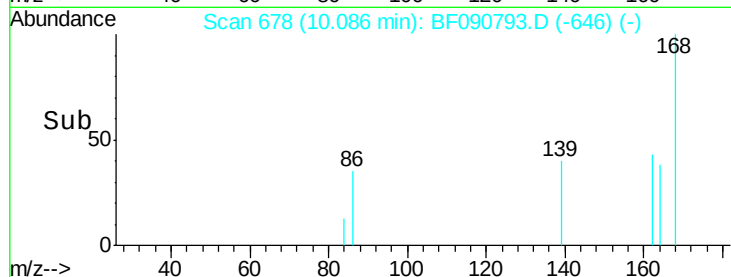
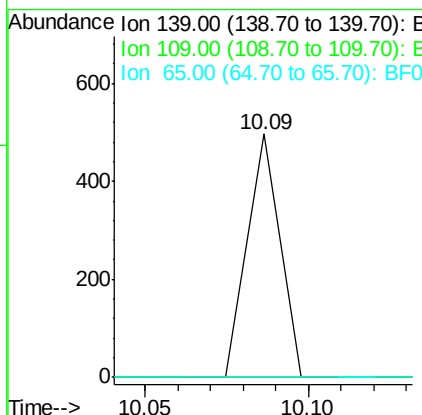
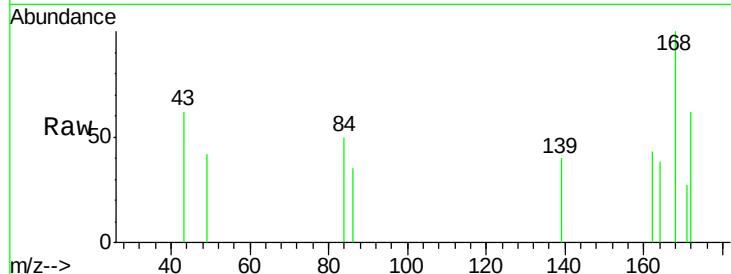




#55  
4-Nitrophenol  
Concen: 6.00 ng  
RT: 10.09 min Scan# 678  
Delta R.T. 0.07 min  
Lab File: BF090793.D  
Acq: 24 Oct 2016 17:53

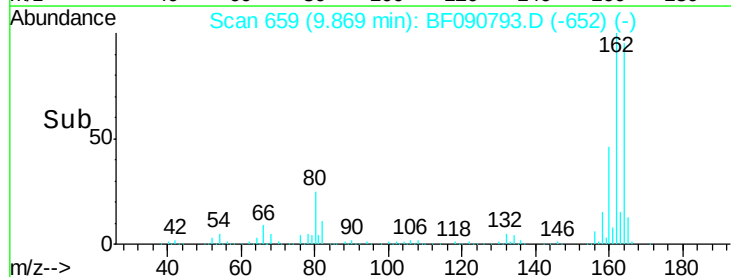
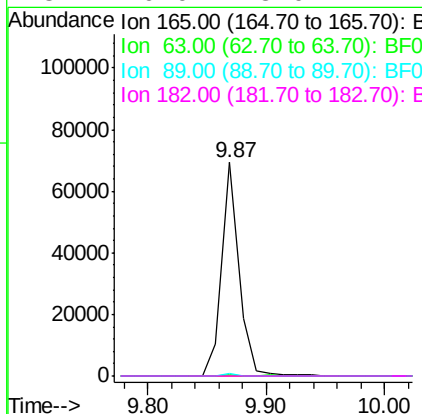
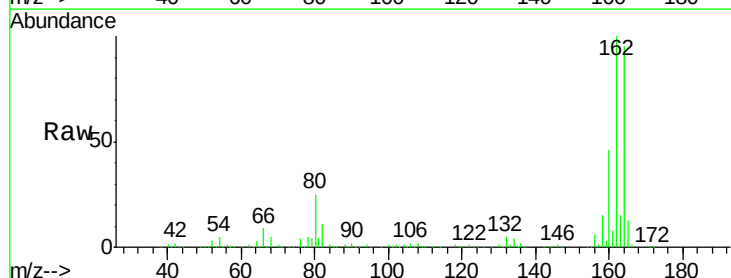
Instrument :  
BNA\_F  
ClientSampleId :  
IDW-Z5-B545-161019

Tot Ion:139 Resp: 341  
Ion Ratio Lower Upper  
139 100  
109 0.0 12.7 52.7#  
65 0.0 45.9 85.9#

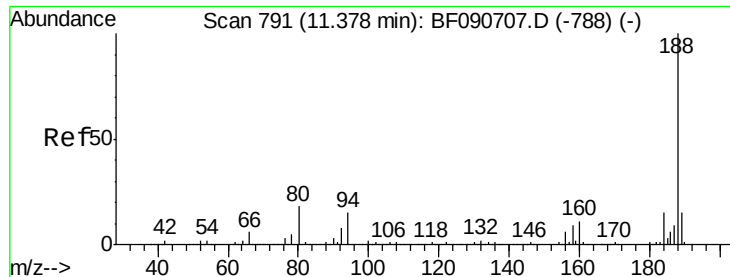


#56  
2,4-Dinitrotoluene  
Concen: 7.81 ng  
RT: 9.87 min Scan# 659  
Delta R.T. -0.22 min  
Lab File: BF090793.D  
Acq: 24 Oct 2016 17:53

Tgt Ion:165 Resp: 70200  
Ion Ratio Lower Upper  
165 100  
63 0.9 29.8 44.6#  
89 1.2 44.5 66.7#  
182 0.0 3.0 4.4#



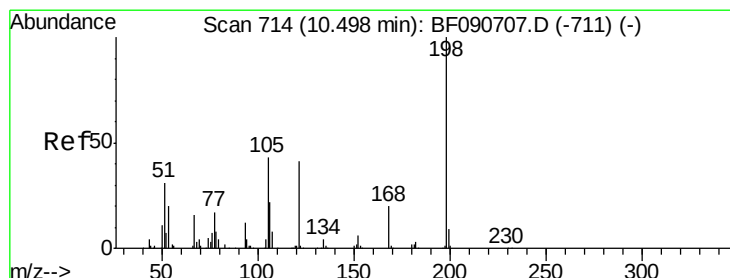
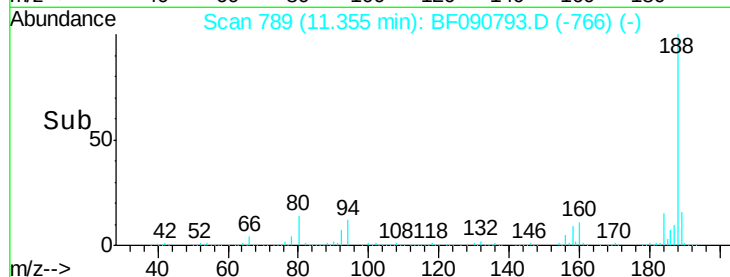
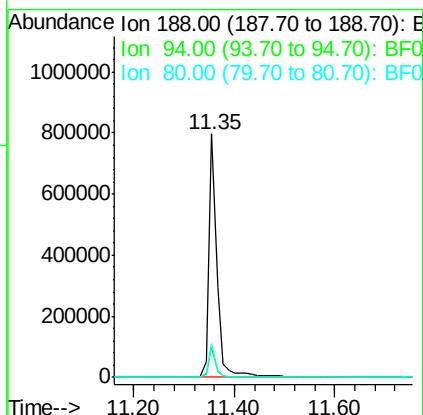
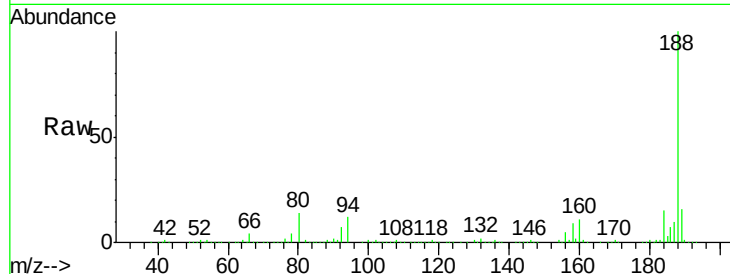




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.35 min Scan# 789  
Delta R.T. -0.03 min  
Lab File: BF090793.D  
Acq: 24 Oct 2016 17:53

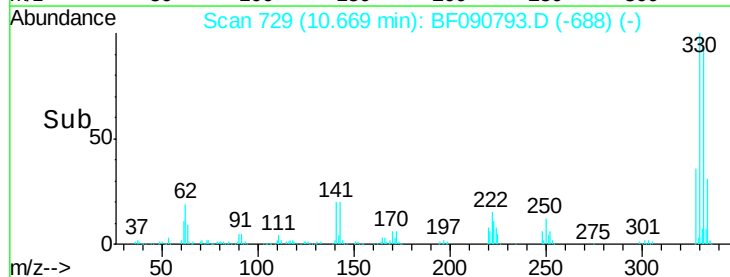
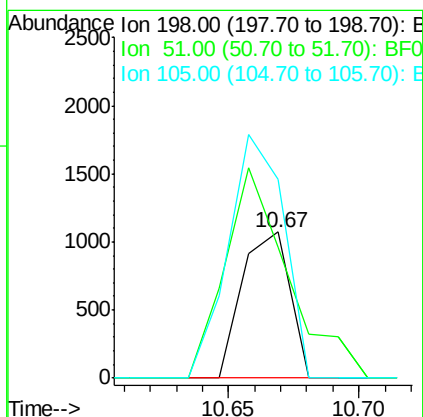
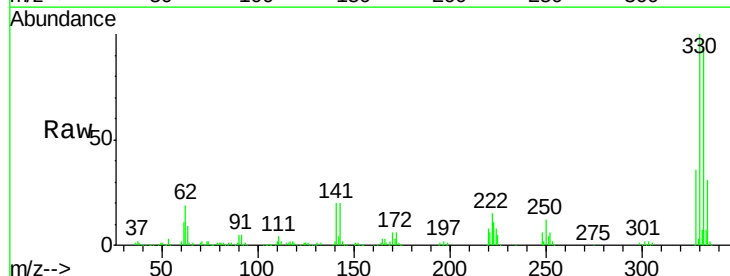
Instrument :  
BNA\_F  
ClientSampleId :  
IDW-Z5-B545-161019

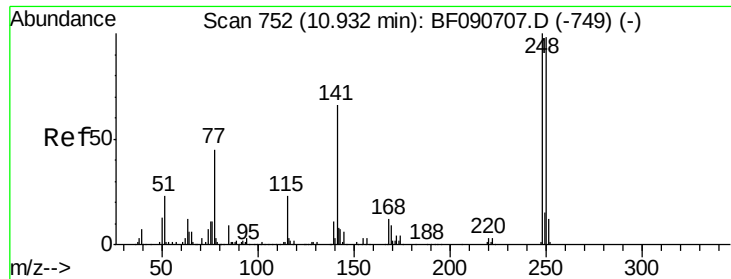
Tot Ion:188 Resp: 897299  
Ion Ratio Lower Upper  
188 100  
94 12.5 11.1 16.7  
80 14.0 11.0 16.4



#64  
4,6-Dinitro-2-methylphenol  
Concen: 4.39 ng  
RT: 10.67 min Scan# 729  
Delta R.T. 0.17 min  
Lab File: BF090793.D  
Acq: 24 Oct 2016 17:53

Tgt Ion:198 Resp: 1363  
Ion Ratio Lower Upper  
198 100  
51 89.4 39.6 79.6#  
105 136.6 28.5 68.5#

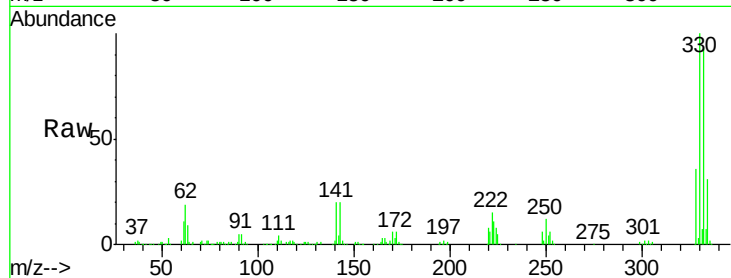




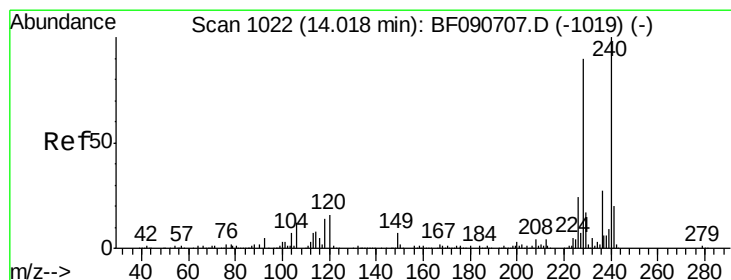
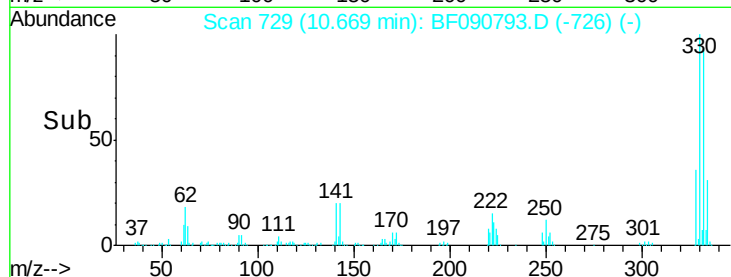
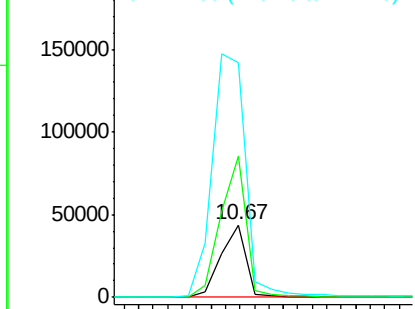
#66  
4-Bromophenyl-phenylether  
Concen: 6.12 ng  
RT: 10.67 min Scan# 729  
Delta R.T. -0.26 min  
Lab File: BF090793.D  
Acq: 24 Oct 2016 17:53

Instrument :  
BNA\_F  
ClientSampleId :  
IDW-Z5-B545-161019

Tot Ion:248 Resp: 53233  
Ion Ratio Lower Upper  
248 100  
250 195.2 78.5 117.7#  
141 323.6 59.0 88.6#

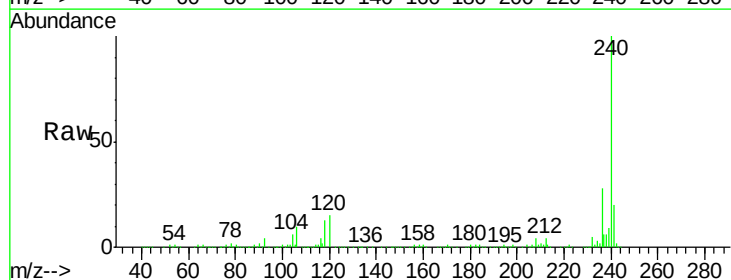


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

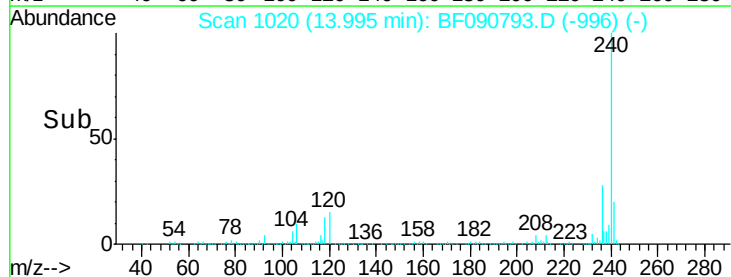
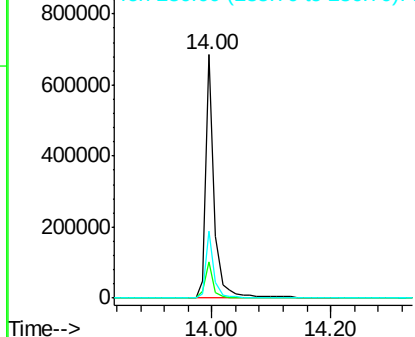


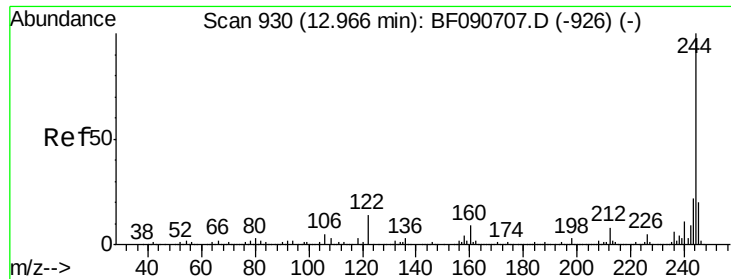
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.00 min Scan# 1020  
Delta R.T. -0.02 min  
Lab File: BF090793.D  
Acq: 24 Oct 2016 17:53

Tgt Ion:240 Resp: 710463  
Ion Ratio Lower Upper  
240 100  
120 14.9 16.2 24.2#  
236 27.7 18.4 27.6#



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

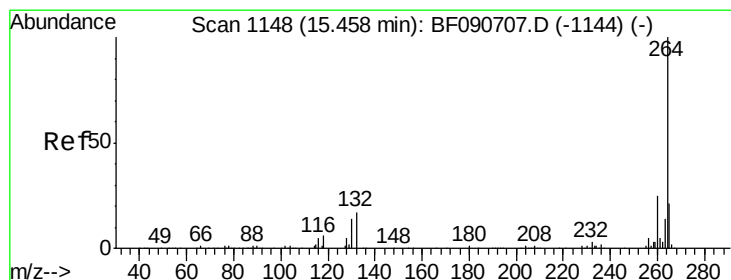
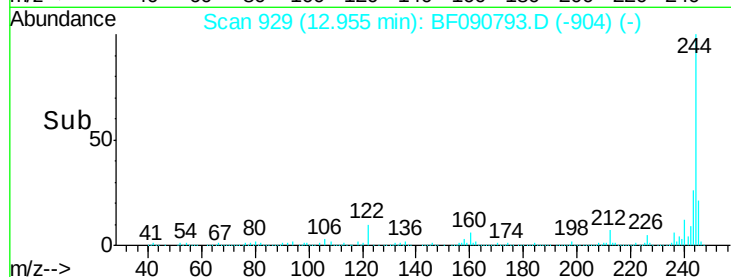
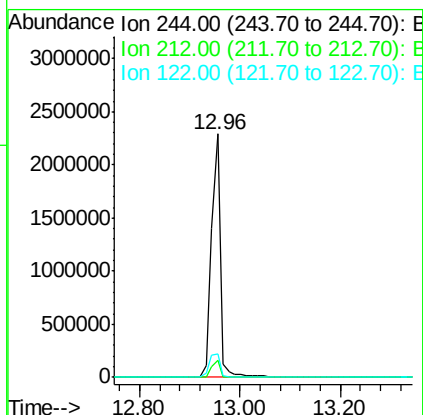
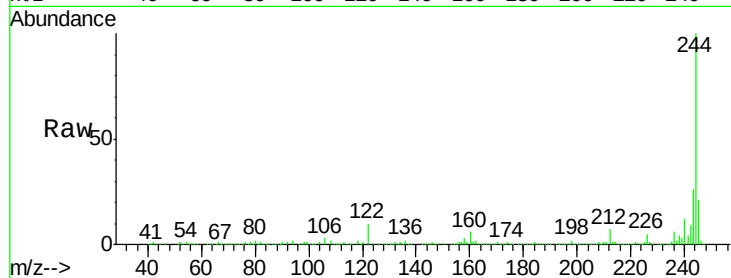




#78  
 Terphenyl-d14  
 Concen: 92.26 ng  
 RT: 12.96 min Scan# 929  
 Delta R.T. -0.01 min  
 Lab File: BF090793.D  
 Acq: 24 Oct 2016 17:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 IDW-Z5-B545-161019

Tot Ion:244 Resp: 2859918  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 4.3 6.5#  
 122 9.5 17.4 26.2#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.42 min Scan# 1145  
 Delta R.T. -0.03 min  
 Lab File: BF090793.D  
 Acq: 24 Oct 2016 17:53

Tgt Ion:264 Resp: 512847  
 Ion Ratio Lower Upper  
 264 100  
 260 24.9 16.7 25.1  
 265 22.1 17.2 25.8

