

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060416\  
 Data File : BF087658.D  
 Acq On : 4 Jun 2016 11:13  
 Operator : UM/SJ  
 Sample : PB90993BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB90993BL

Quant Time: Jun 05 01:16:49 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jun 04 11:07:28 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.86  | 152  | 123699   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.15  | 136  | 519395   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.90  | 164  | 236722   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.38 | 188  | 474466   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.01 | 240  | 386762   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.44 | 264  | 306060   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.46  | 112  | 777368   | 101.58 | ng    | 0.01     |
| 7) Phenol-d6                | 6.49  | 99   | 1181747  | 123.13 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 661252   | 73.66  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.68 | 330  | 247960   | 104.35 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 1173872  | 72.70  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.97 | 244  | 1023264  | 64.56  | ng    | 0.00     |

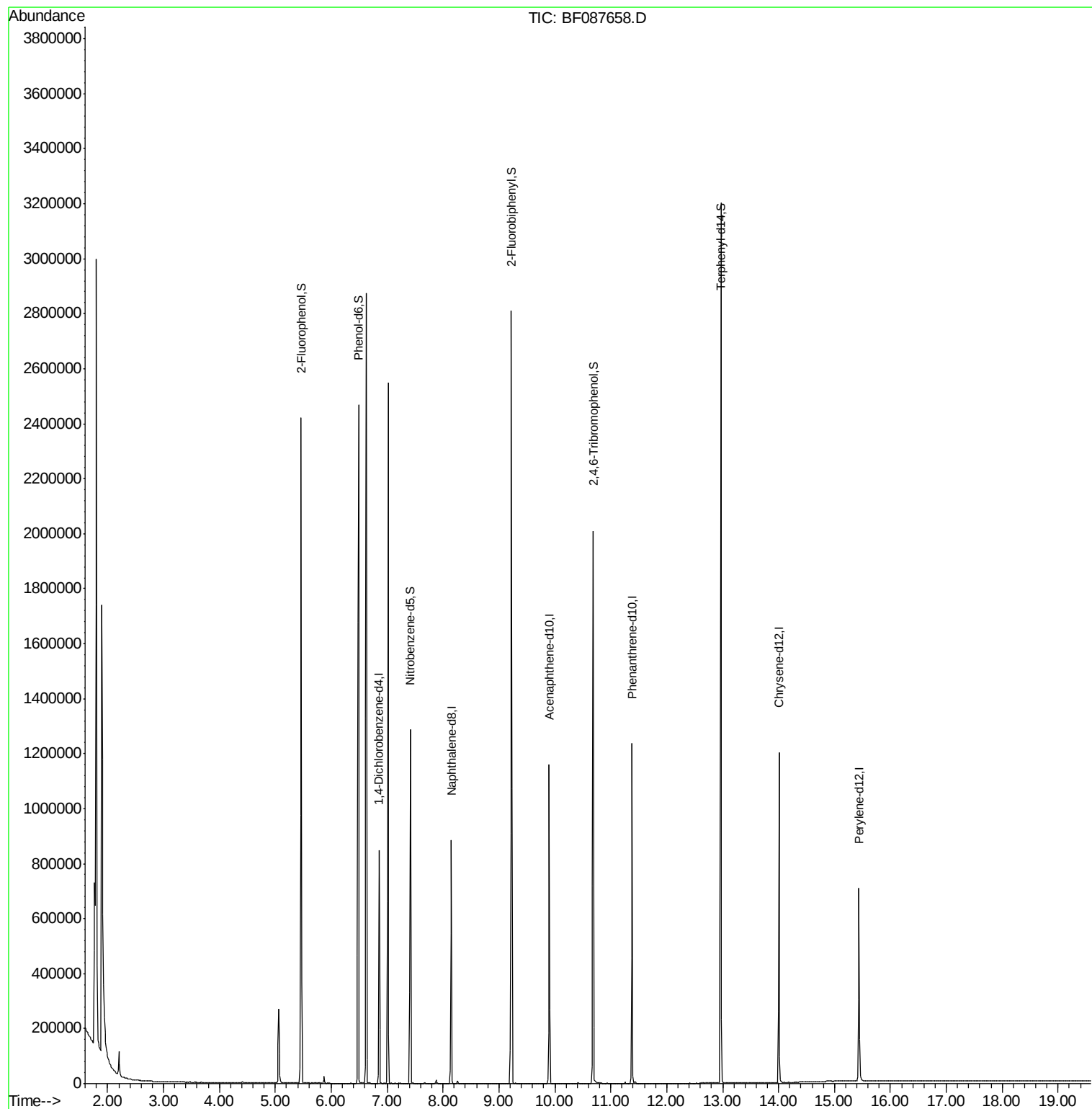
Target Compounds Qvalue

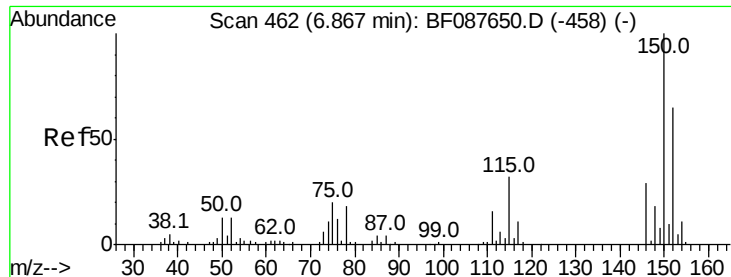
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jun 04 11:07:28 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.86 min Scan# 461

Delta R.T. -0.01 min

Lab File: BF087658.D

Acq: 4 Jun 2016 11:13

Instrument :

BNA\_F

ClientSampleId :

PB90993BL

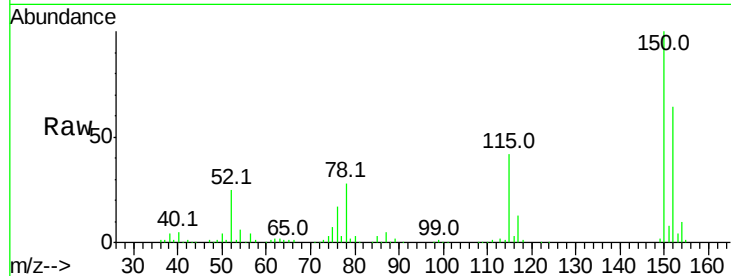
Tot Ion:152 Resp: 123699

Ion Ratio Lower Upper

152 100

150 157.2 123.8 185.6

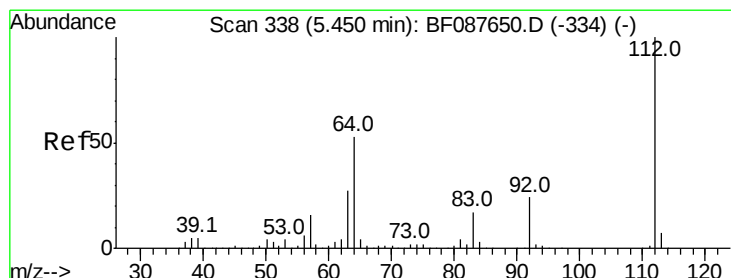
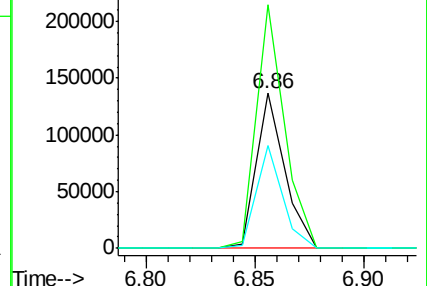
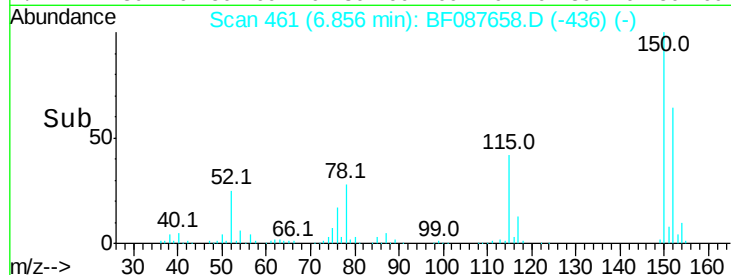
115 66.7 39.6 59.4#



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: 101.58 ng

RT: 5.46 min Scan# 339

Delta R.T. 0.01 min

Lab File: BF087658.D

Acq: 4 Jun 2016 11:13

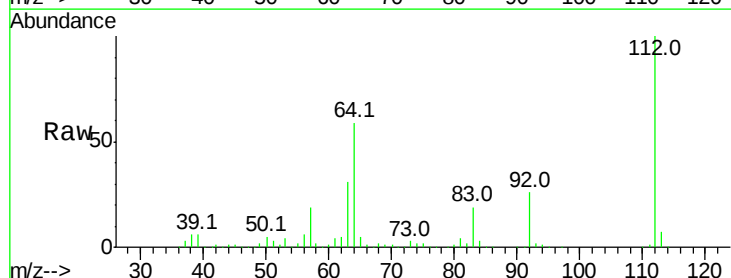
Tgt Ion:112 Resp: 777368

Ion Ratio Lower Upper

112 100

64 59.1 42.2 63.2

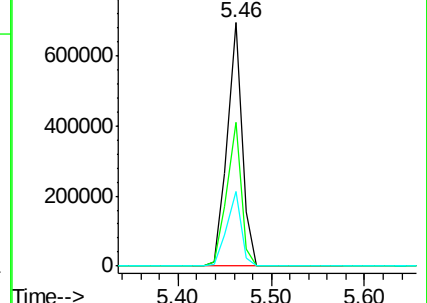
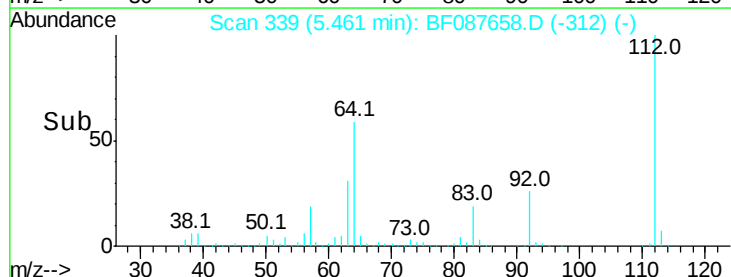
63 30.7 21.8 32.8

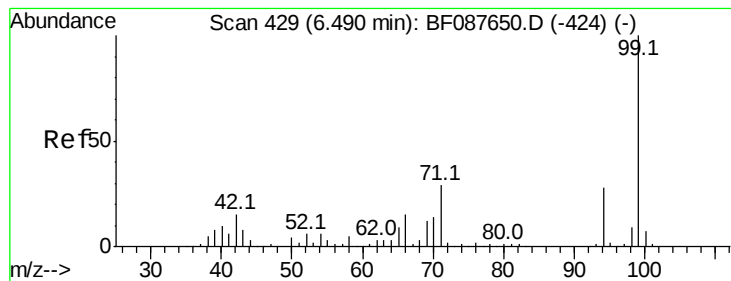


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 123.13 ng

RT: 6.49 min Scan# 429

Delta R.T. -0.00 min

Lab File: BF087658.D

Acq: 4 Jun 2016 11:13

Instrument :

BNA\_F

ClientSampleId :

PB90993BL

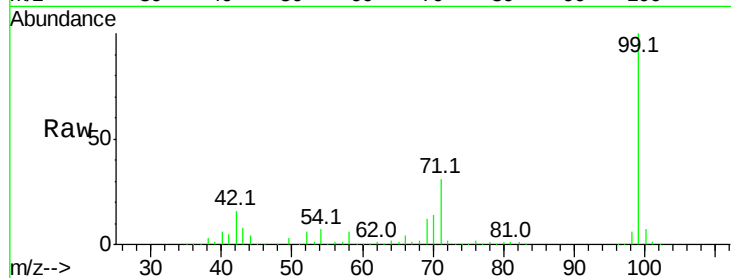
Tot Ion: 99 Resp: 1181747

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 15.8  | 12.2  | 18.2  |
| 71  | 31.5  | 23.4  | 35.0  |

99 100

42 15.8 12.2 18.2

71 31.5 23.4 35.0

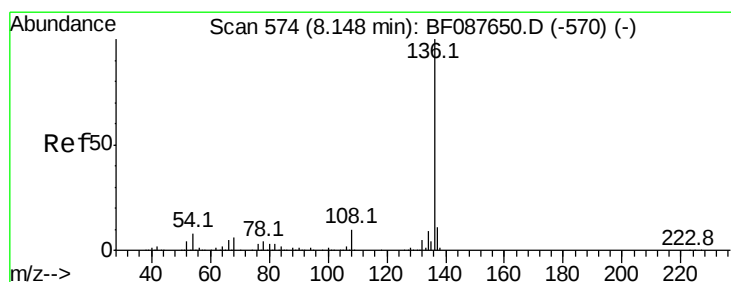
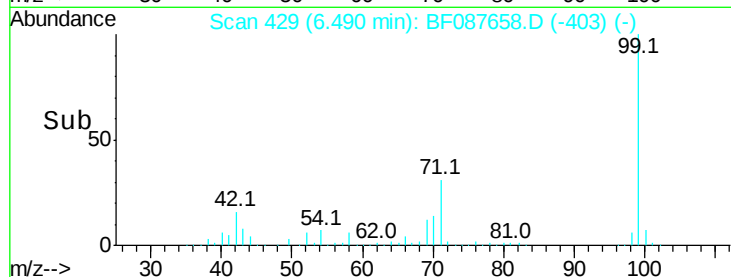
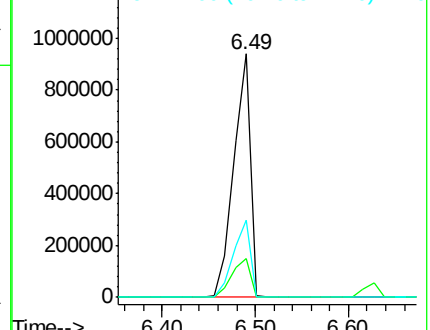


Abundance

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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.15 min Scan# 574

Delta R.T. -0.00 min

Lab File: BF087658.D

Acq: 4 Jun 2016 11:13

Tgt Ion: 136 Resp: 519395

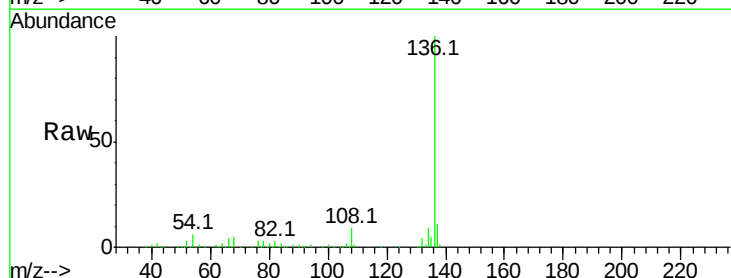
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.7  | 9.1   | 13.7  |
| 54  | 6.2   | 6.6   | 10.0# |
| 68  | 5.0   | 5.1   | 7.7#  |

136 100

137 10.7 9.1 13.7

54 6.2 6.6 10.0#

68 5.0 5.1 7.7#



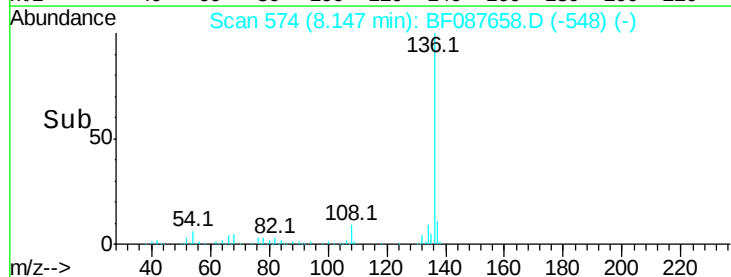
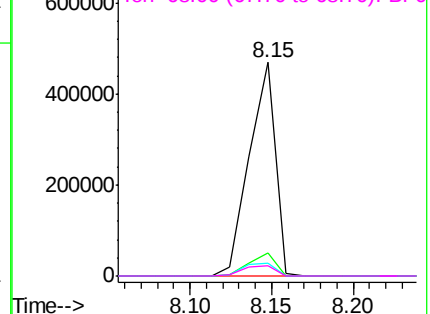
Abundance

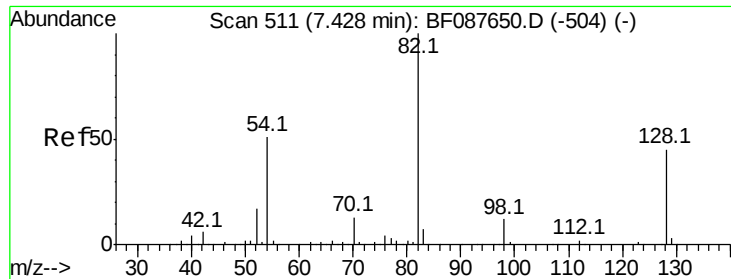
Ion 136.00 (135.70 to 136.70): E

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

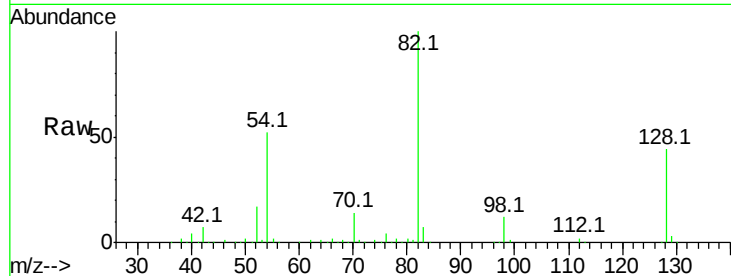




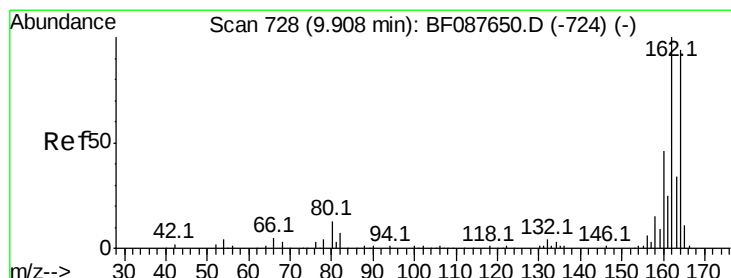
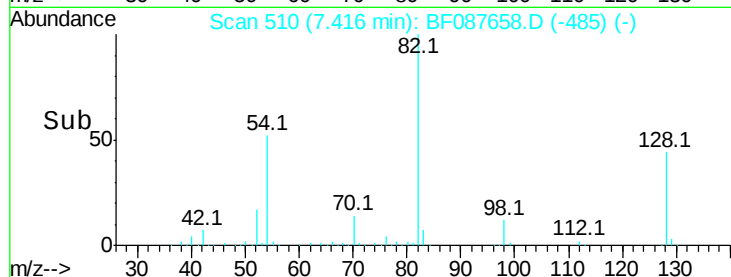
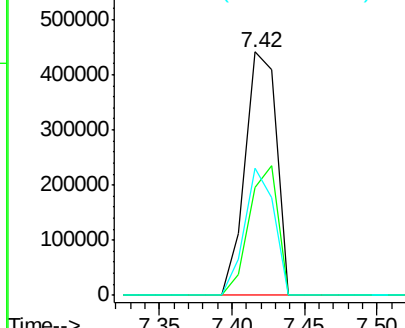
#23  
 Nitrobenzene-d5  
 Concen: 73.66 ng  
 RT: 7.42 min Scan# 510  
 Delta R.T. -0.01 min  
 Lab File: BF087658.D  
 Acq: 4 Jun 2016 11:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB90993BL

| Tot Ion   | 82   | Resp  | 661252 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 44.3 | 35.9  | 53.9   |
| 54        | 52.4 | 40.9  | 61.3   |

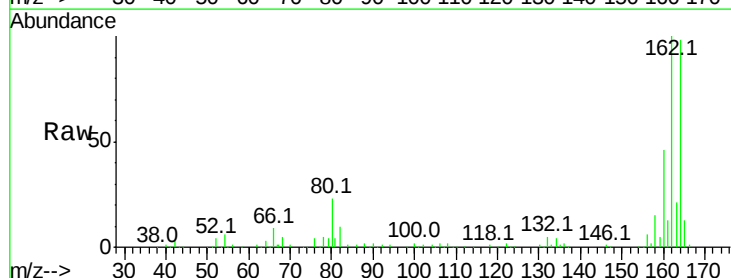


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

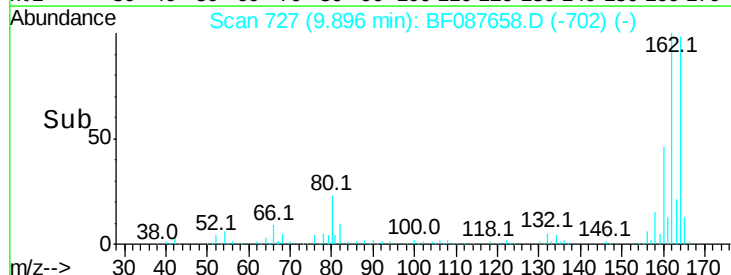
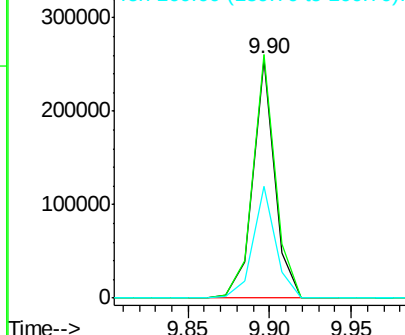


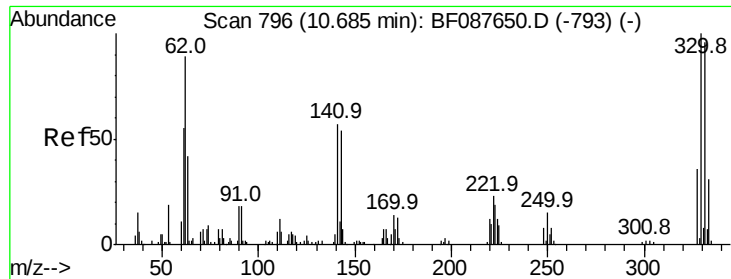
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.90 min Scan# 727  
 Delta R.T. -0.01 min  
 Lab File: BF087658.D  
 Acq: 4 Jun 2016 11:13

| Tgt Ion   | 164   | Resp  | 236722 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 162       | 102.1 | 85.4  | 128.2  |
| 160       | 46.8  | 39.5  | 59.3   |



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

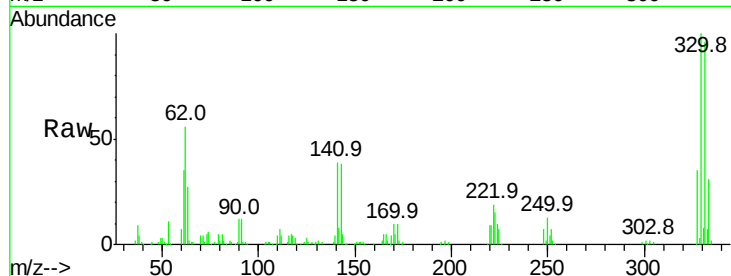




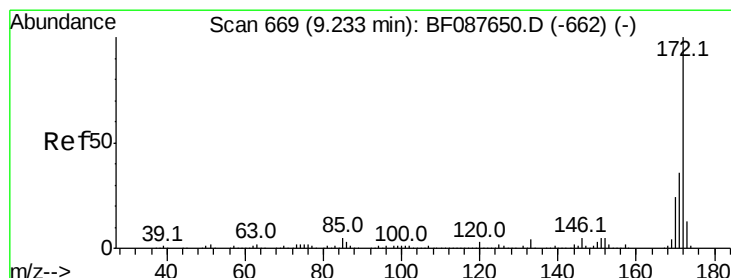
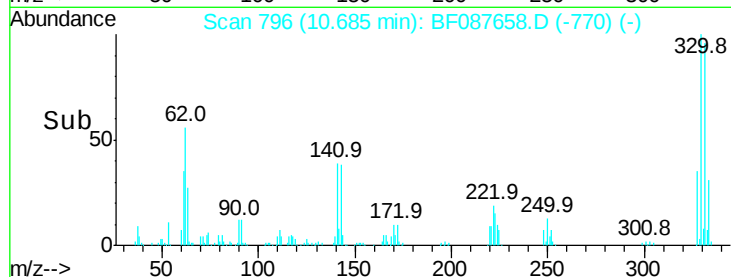
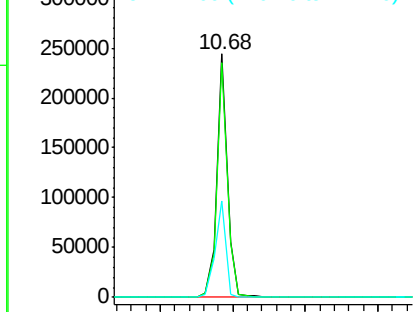
#41  
 2,4,6-Tribromophenol  
 Concen: 104.35 ng  
 RT: 10.68 min Scan# 796  
 Delta R.T. -0.00 min  
 Lab File: BF087658.D  
 Acq: 4 Jun 2016 11:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB90993BL

Tot Ion:330 Resp: 247960  
 Ion Ratio Lower Upper  
 330 100  
 332 96.0 0.0 0.0#  
 141 39.8 0.0 0.0#

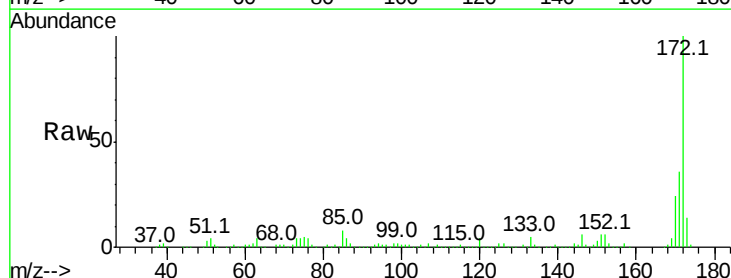


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

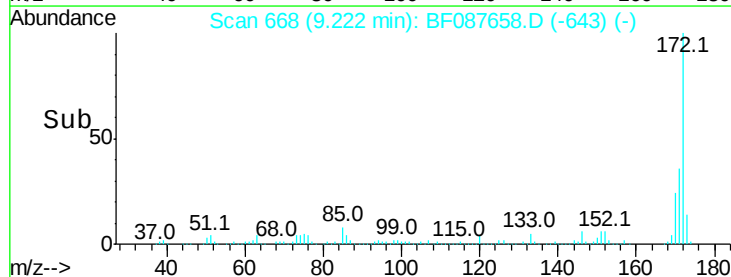
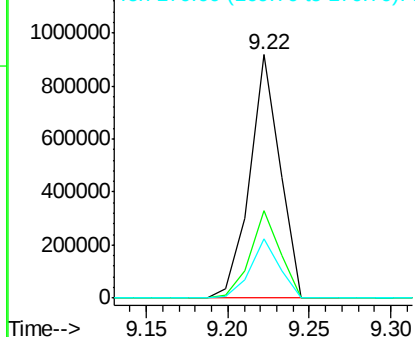


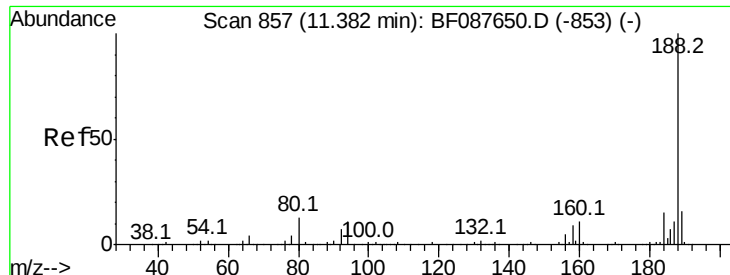
#44  
 2-Fluorobiphenyl  
 Concen: 72.70 ng  
 RT: 9.22 min Scan# 668  
 Delta R.T. -0.01 min  
 Lab File: BF087658.D  
 Acq: 4 Jun 2016 11:13

Tgt Ion:172 Resp: 1173872  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 28.6 43.0  
 170 24.3 19.2 28.8



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

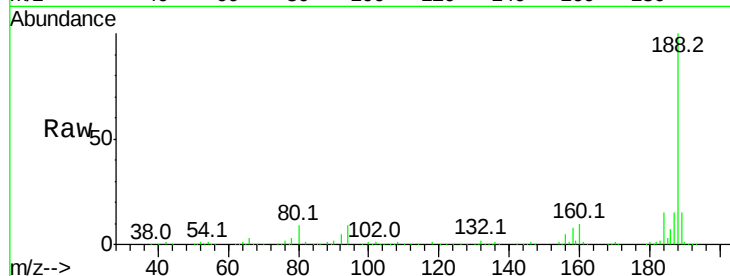




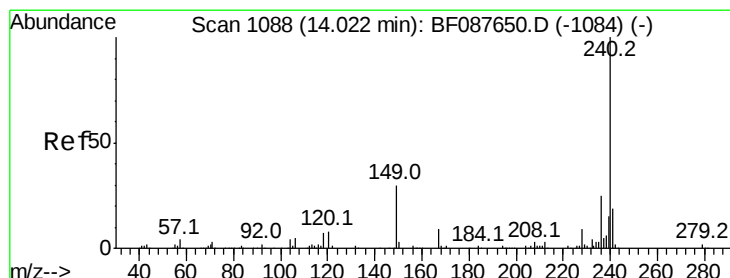
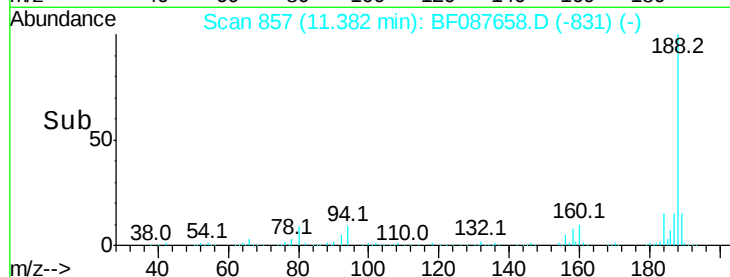
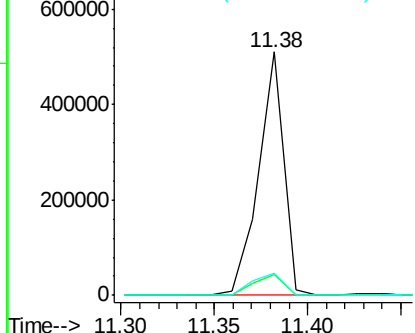
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.38 min Scan# 857  
Delta R.T. -0.00 min  
Lab File: BF087658.D  
Acq: 4 Jun 2016 11:13

Instrument :  
BNA\_F  
ClientSampleId :  
PB90993BL

Tot Ion:188 Resp: 474466  
Ion Ratio Lower Upper  
188 100  
94 8.8 9.0 13.6#  
80 9.0 10.0 15.0#

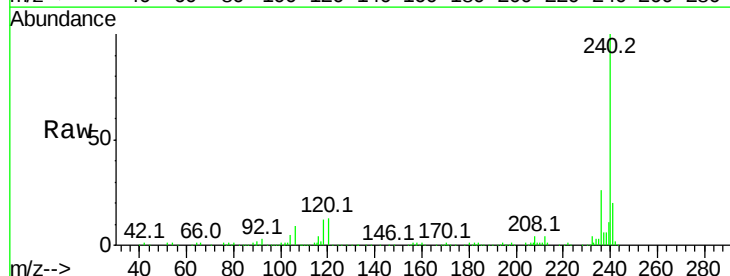


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

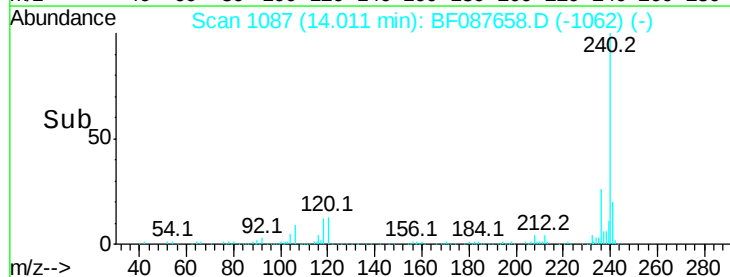
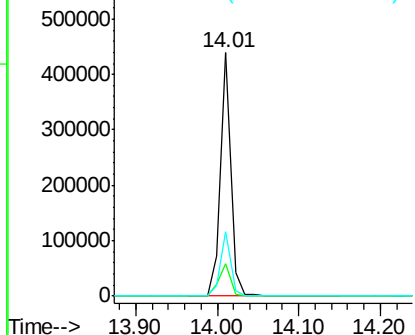


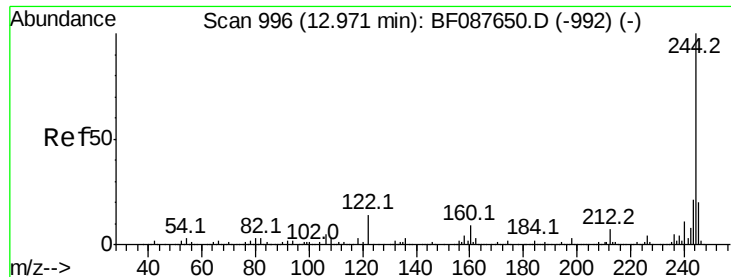
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.01 min Scan# 1087  
Delta R.T. -0.01 min  
Lab File: BF087658.D  
Acq: 4 Jun 2016 11:13

Tgt Ion:240 Resp: 386762  
Ion Ratio Lower Upper  
240 100  
120 13.4 6.8 10.2#  
236 26.2 20.2 30.2



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

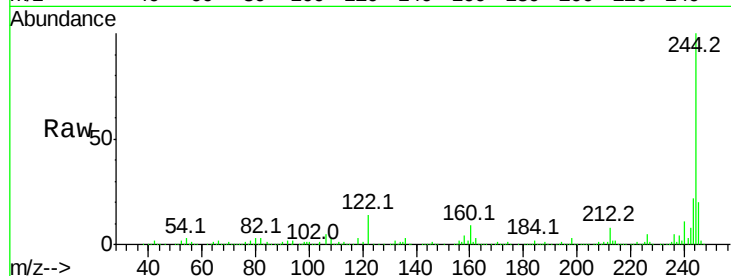




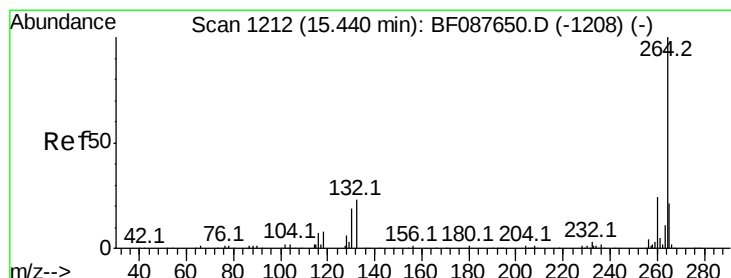
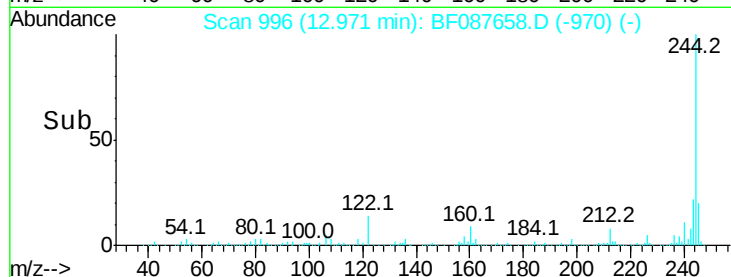
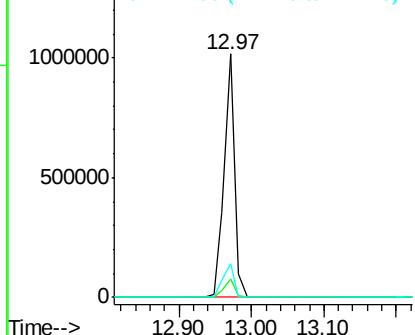
#78  
 Terphenyl-d14  
 Concen: 64.56 ng  
 RT: 12.97 min Scan# 996  
 Delta R.T. 0.00 min  
 Lab File: BF087658.D  
 Acq: 4 Jun 2016 11:13

Instrument :  
 BNA\_F  
 ClientSampleID :  
 PB90993BL

Tot Ion:244 Resp: 1023264  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 6.0 9.0  
 122 14.0 11.2 16.8

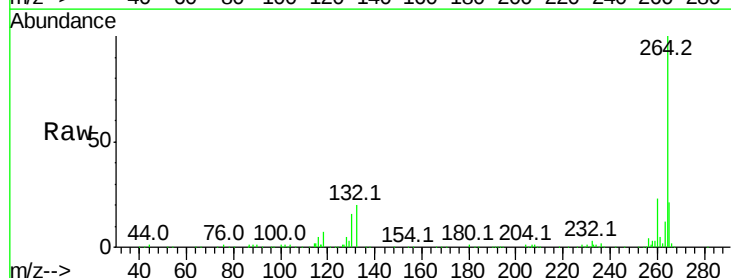


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.44 min Scan# 1212  
 Delta R.T. -0.00 min  
 Lab File: BF087658.D  
 Acq: 4 Jun 2016 11:13

Tgt Ion:264 Resp: 306060  
 Ion Ratio Lower Upper  
 264 100  
 260 23.3 19.2 28.8  
 265 21.2 16.9 25.3



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

