

Data Path : Z:\HPCHEM1\BNA F\Data\BF060816\  
 Data File : BF087840.D  
 Acq On : 9 Jun 2016 8:12  
 Operator : UM/SJ  
 Sample : H3371-04  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 09 14:10:03 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 07 18:51:55 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.82  | 152  | 99626    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 8.11  | 136  | 405550   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.86  | 164  | 156439   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.35 | 188  | 250403   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.99 | 240  | 223371   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.41 | 264  | 166347   | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.43  | 112  | 789960   | 135.55 | ng    | 0.00     |
| 7) Phenol-d6                | 6.47  | 99   | 993754   | 140.71 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 639613   | 92.10  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.66 | 330  | 218597   | 132.34 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.20  | 172  | 1104634  | 112.73 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.95 | 244  | 859867   | 87.60  | ng    | 0.00     |

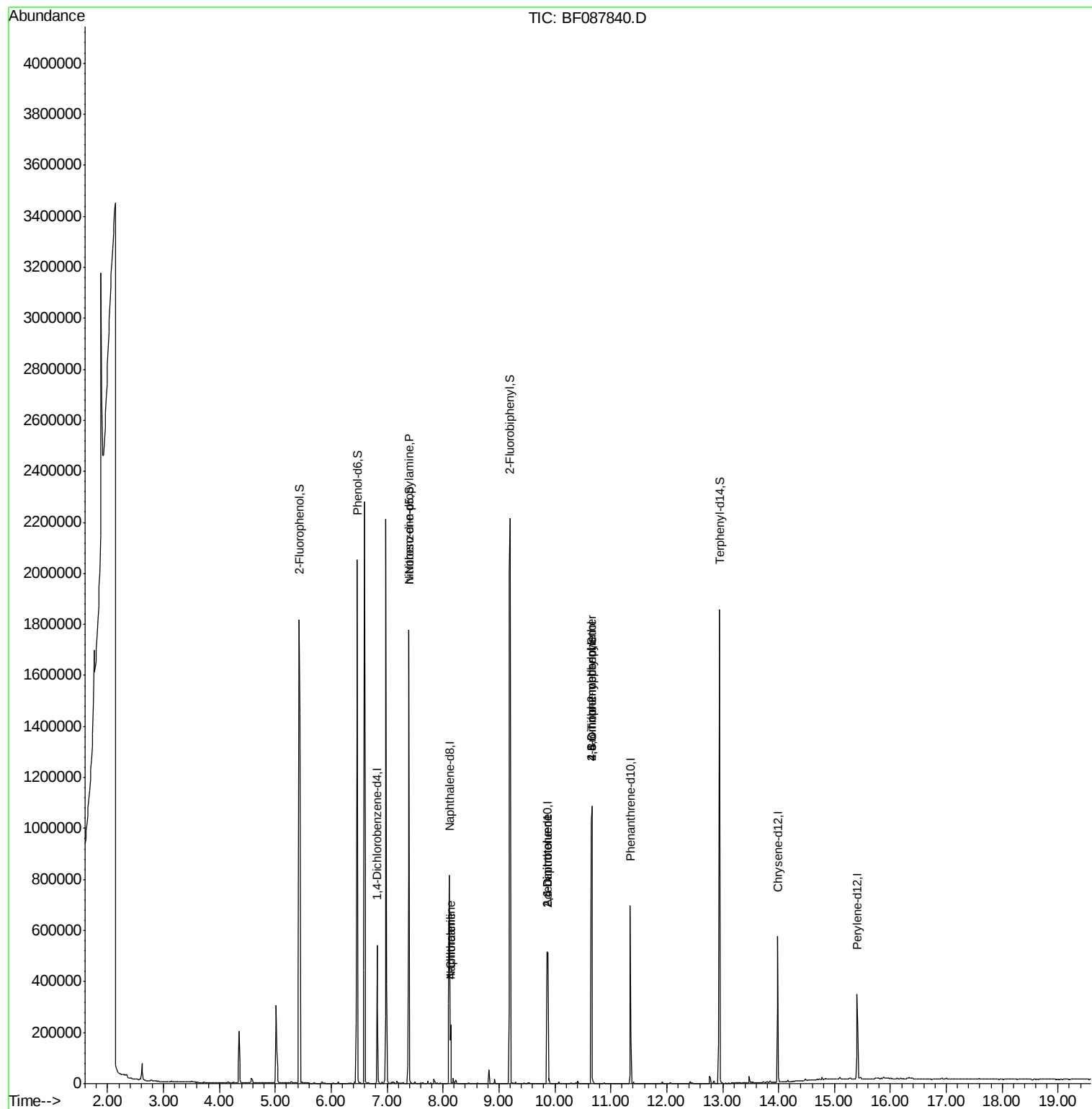
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 10) Phenol                     | 6.59  | 94   | 1179     | Below Cal | #     | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 85550    | 18.93     | ng    | 73     |
| 31) Naphthalene                | 8.14  | 128  | 139830   | 6.97      | ng    | 97     |
| 33) 4-Chloroaniline            | 8.14  | 127  | 18029    | 2.01      | ng    | 37     |
| 45) 1,1'-Biphenyl              | 9.29  | 154  | 2601     | Below Cal |       | 97     |
| 50) 2,6-Dinitrotoluene         | 9.86  | 165  | 19654    | 7.57      | ng    | 37     |
| 56) 2,4-Dinitrotoluene         | 9.86  | 165  | 19650    | 5.89      | ng    | 36     |
| 57) Fluorene                   | 10.41 | 166  | 3366     | Below Cal |       | 99     |
| 64) 4,6-Dinitro-2-methylphenol | 10.66 | 198  | 487      | 2.46      | ng    | 20     |
| 66) 4-Bromophenyl-phenylether  | 10.66 | 248  | 12671    | 4.72      | ng    | 1      |

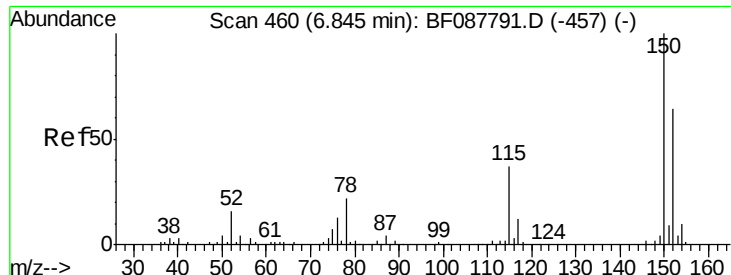
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 07 18:51:55 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 458

Delta R.T. -0.02 min

Lab File: BF087840.D

Acq: 9 Jun 2016 8:12

Instrument :

BNA\_F

ClientSampleId :

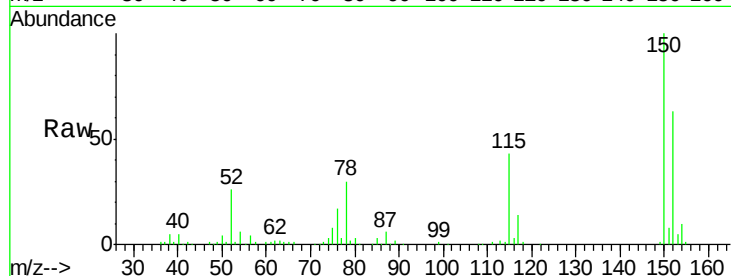
Tot Ion:152 Resp: 99626

Ion Ratio Lower Upper

152 100

150 159.7 123.8 185.6

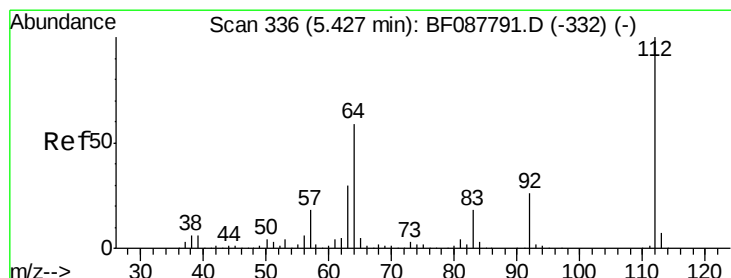
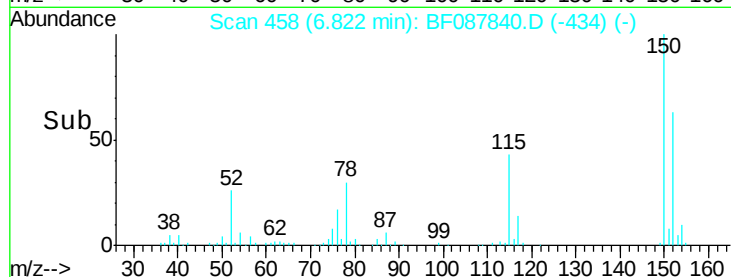
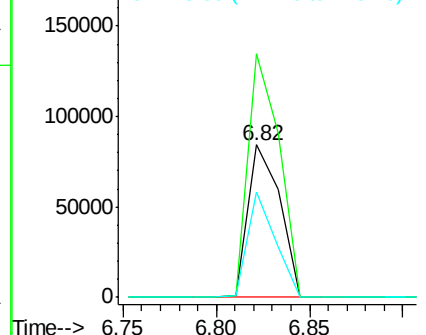
115 69.4 39.6 59.4#



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: 135.55 ng

RT: 5.43 min Scan# 336

Delta R.T. 0.00 min

Lab File: BF087840.D

Acq: 9 Jun 2016 8:12

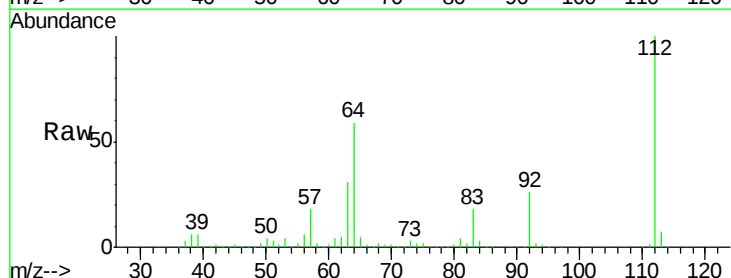
Tgt Ion:112 Resp: 789960

Ion Ratio Lower Upper

112 100

64 58.9 42.2 63.2

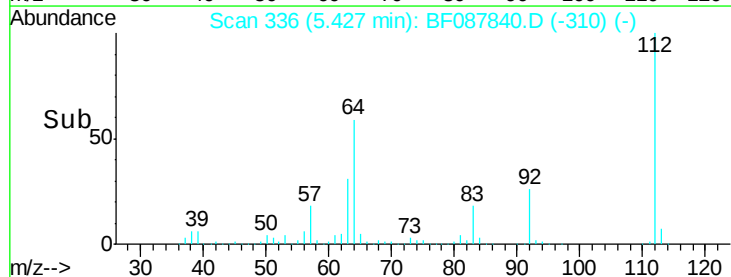
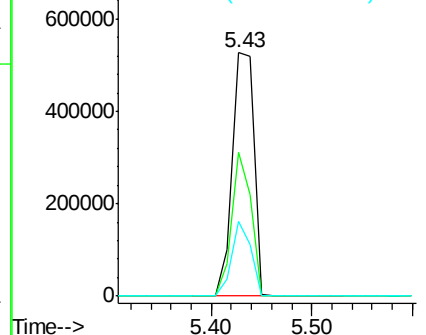
63 30.5 21.8 32.8



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: 140.71 ng

RT: 6.47 min Scan# 427

Delta R.T. -0.01 min

Lab File: BF087840.D

Acq: 9 Jun 2016 8:12

Instrument :

BNA\_F

ClientSampled :

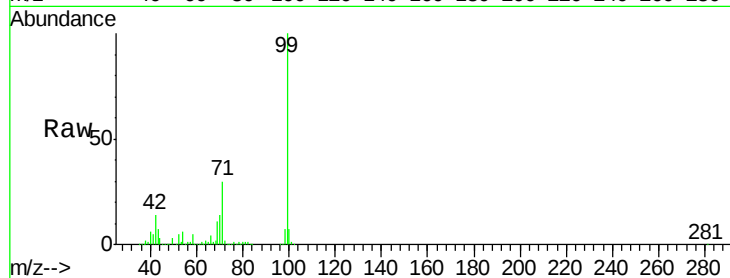
Tot Ion: 99 Resp: 993754

Ion Ratio Lower Upper

99 100

42 14.1 12.2 18.2

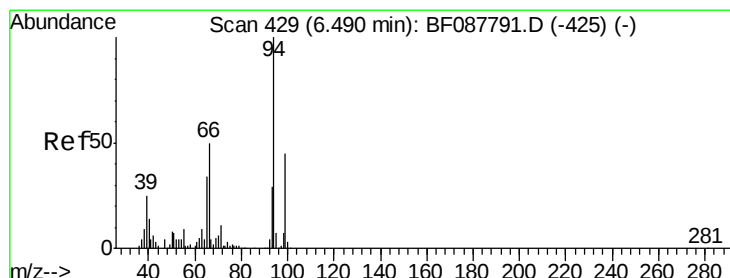
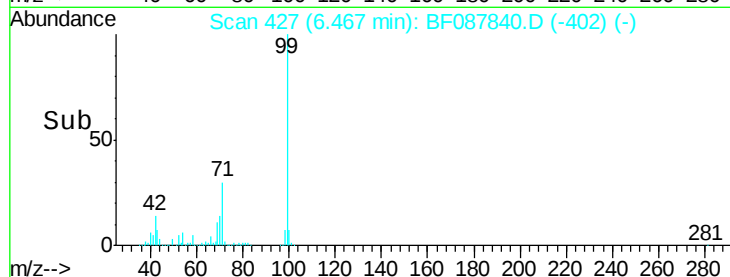
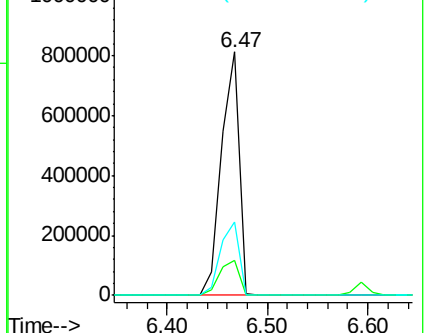
71 30.3 23.4 35.0



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



#10

Phenol

Concen: Below Cal

RT: 6.59 min Scan# 438

Delta R.T. 0.10 min

Lab File: BF087840.D

Acq: 9 Jun 2016 8:12

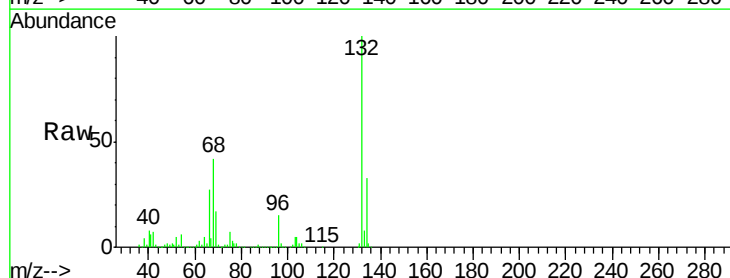
Tgt Ion: 94 Resp: 1179

Ion Ratio Lower Upper

94 100

65 1075.3 5.9 45.9#

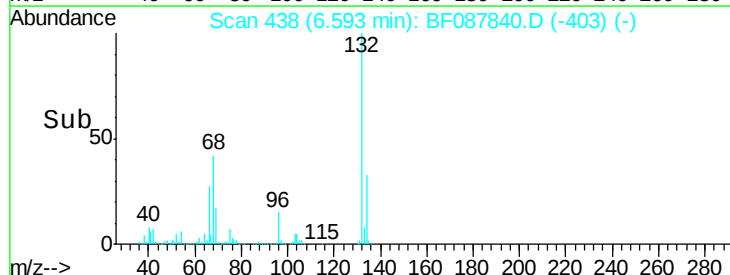
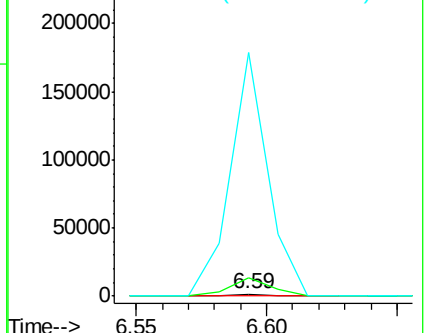
66 14215.4 14.0 54.0#



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

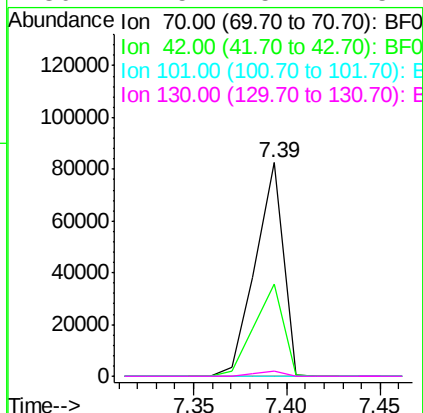
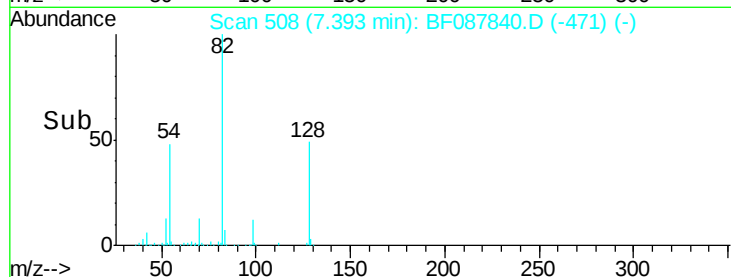
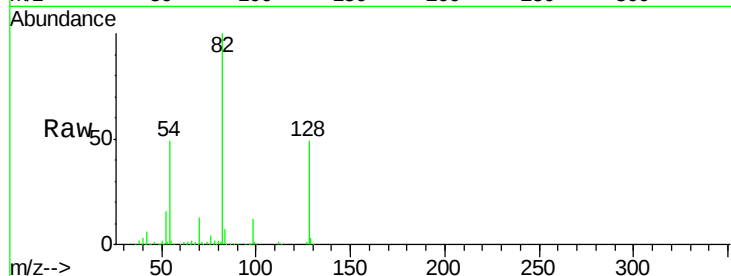




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.93 ng  
RT: 7.39 min Scan# 508  
Delta R.T. 0.13 min  
Lab File: BF087840.D  
Acq: 9 Jun 2016 8:12

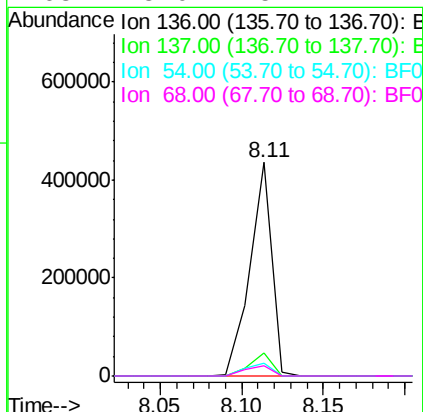
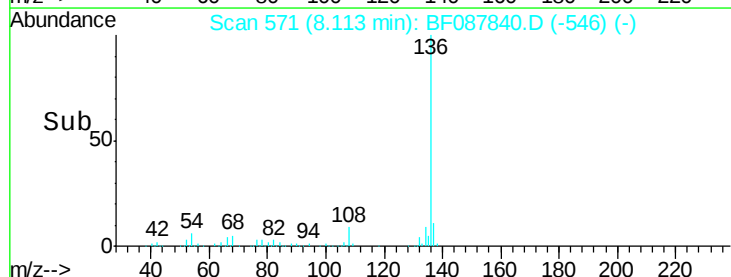
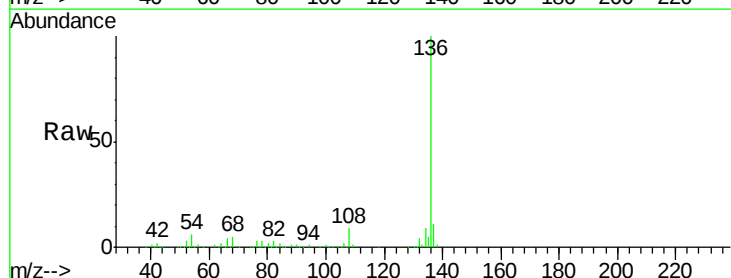
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 70 Resp: 85550  
Ion Ratio Lower Upper  
70 100  
42 42.9 49.6 74.4#  
101 0.0 7.1 10.7#  
130 2.5 15.4 23.2#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.11 min Scan# 571  
Delta R.T. -0.01 min  
Lab File: BF087840.D  
Acq: 9 Jun 2016 8:12

Tgt Ion:136 Resp: 405550  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.1 13.7  
54 5.7 6.6 10.0#  
68 5.0 5.1 7.7#

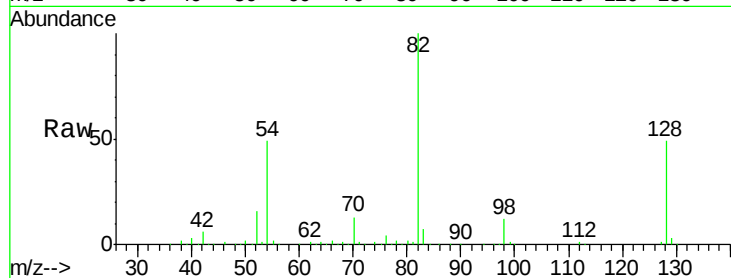




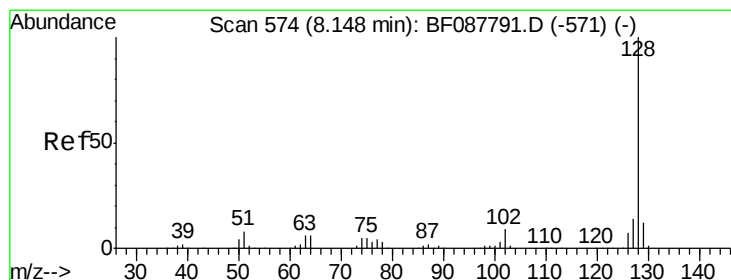
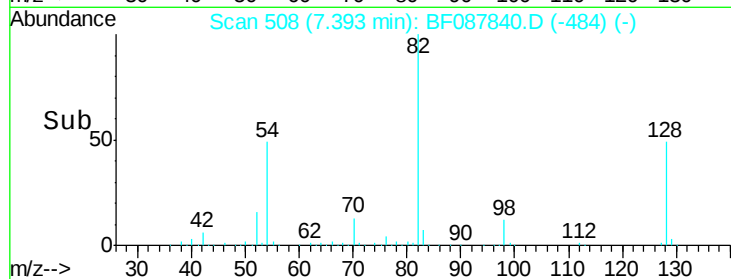
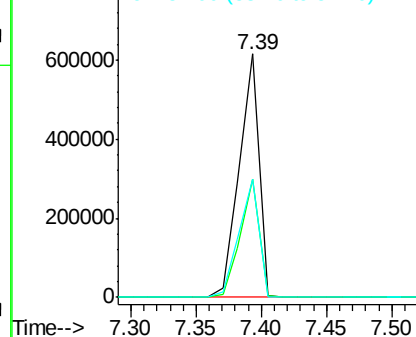
#23  
 Nitrobenzene-d5  
 Concen: 92.10 ng  
 RT: 7.39 min Scan# 508  
 Delta R.T. -0.02 min  
 Lab File: BF087840.D  
 Acq: 9 Jun 2016 8:12

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion: 82 Resp: 639613  
 Ion Ratio Lower Upper  
 82 100  
 128 48.8 35.9 53.9  
 54 48.6 40.9 61.3

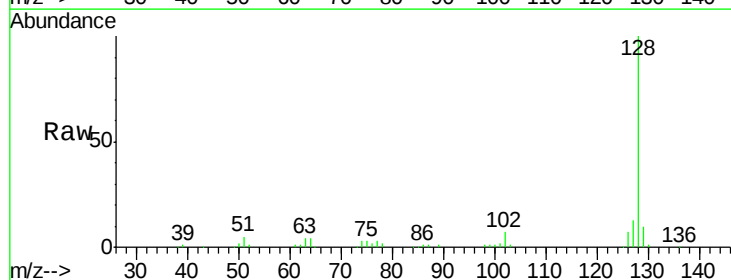


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

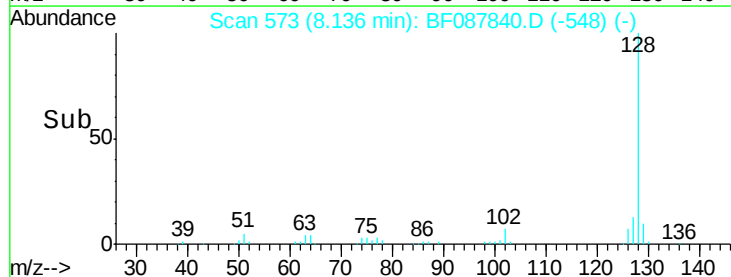
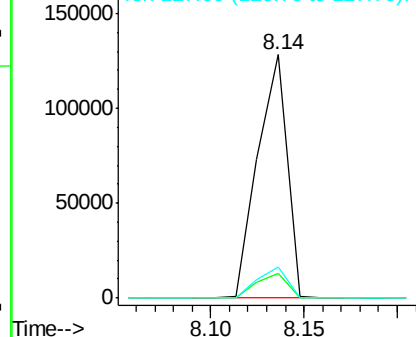


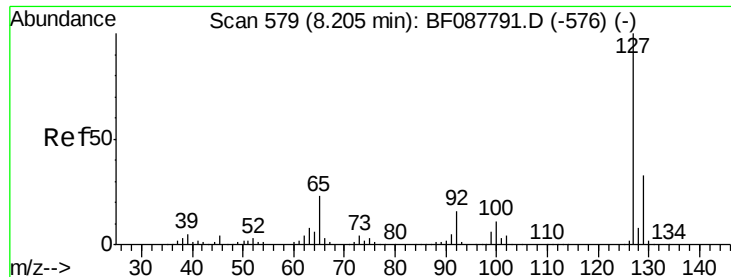
#31  
 Naphthalene  
 Concen: 6.97 ng  
 RT: 8.14 min Scan# 573  
 Delta R.T. -0.01 min  
 Lab File: BF087840.D  
 Acq: 9 Jun 2016 8:12

Tgt Ion: 128 Resp: 139830  
 Ion Ratio Lower Upper  
 128 100  
 129 10.3 9.4 14.2  
 127 12.7 10.9 16.3



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

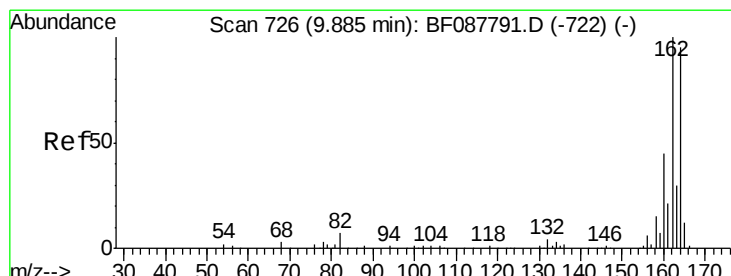
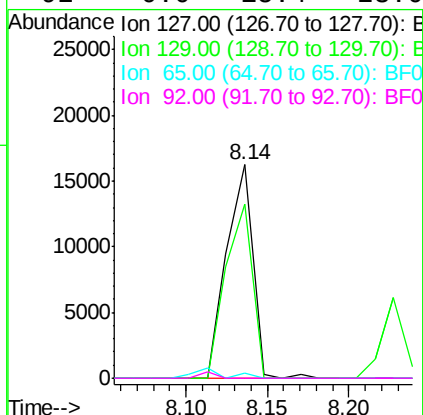
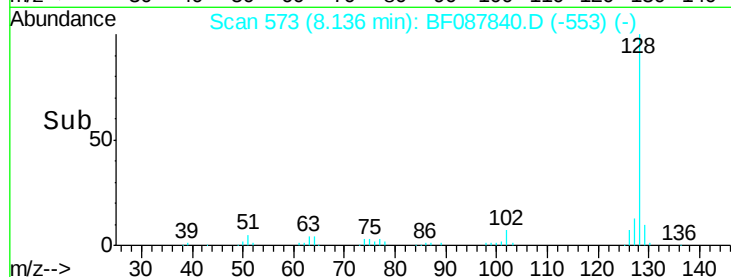
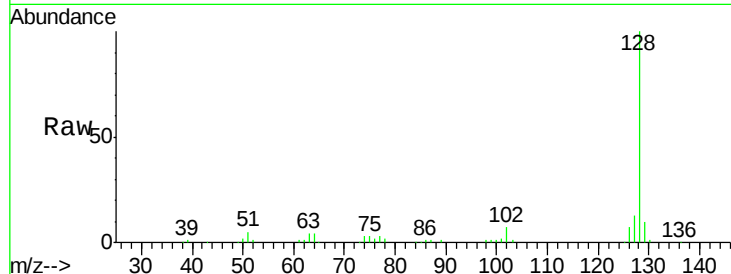




#33  
4-Chloroaniline  
Concen: 2.01 ng  
RT: 8.14 min Scan# 573  
Delta R.T. -0.07 min  
Lab File: BF087840.D  
Acq: 9 Jun 2016 8:12

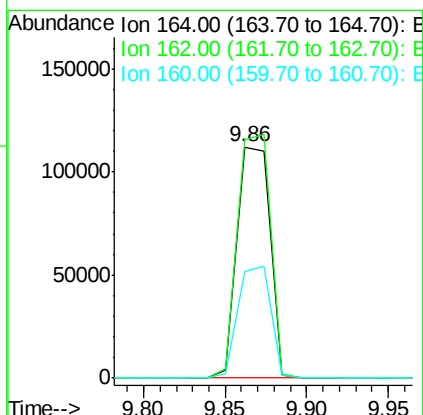
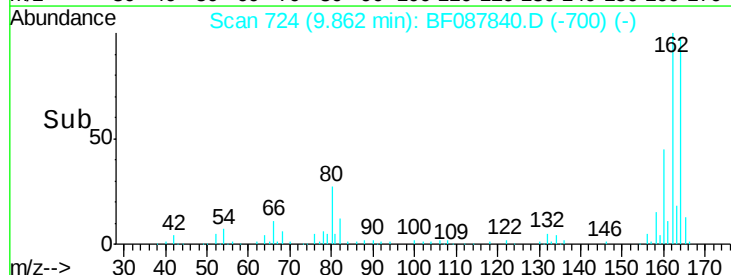
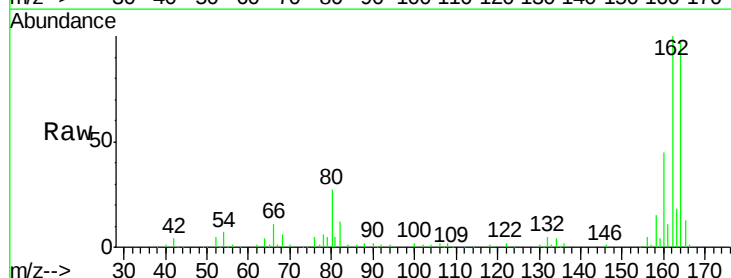
Instrument :  
BNA\_F  
ClientSampled :

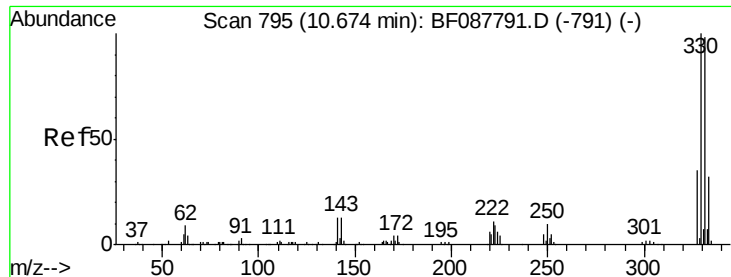
Tot Ion:127 Resp: 18029  
Ion Ratio Lower Upper  
127 100  
129 81.3 26.3 39.5#  
65 2.2 24.7 37.1#  
92 0.0 15.4 23.0#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.86 min Scan# 724  
Delta R.T. -0.02 min  
Lab File: BF087840.D  
Acq: 9 Jun 2016 8:12

Tgt Ion:164 Resp: 156439  
Ion Ratio Lower Upper  
164 100  
162 103.2 85.4 128.2  
160 46.3 39.5 59.3

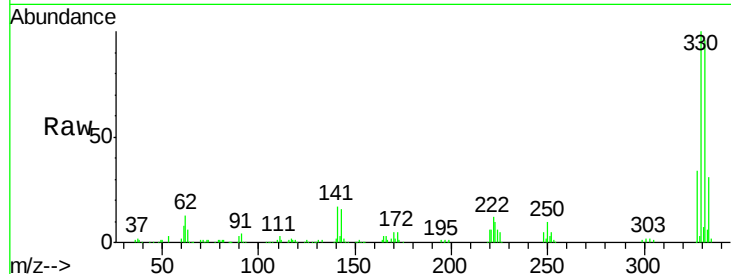




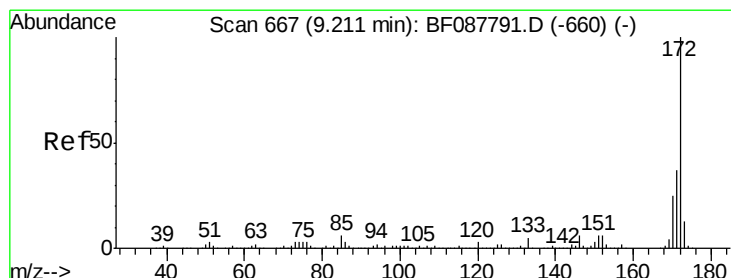
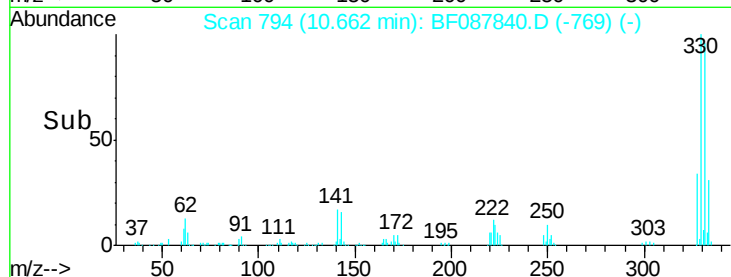
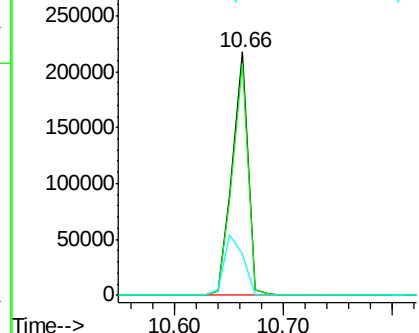
#41  
 2,4,6-Tribromophenol  
 Concen: 132.34 ng  
 RT: 10.66 min Scan# 794  
 Delta R.T. -0.01 min  
 Lab File: BF087840.D  
 Acq: 9 Jun 2016 8:12

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 0.0   | 0.0#  |
| 141     | 30.5  | 0.0   | 0.0#  |

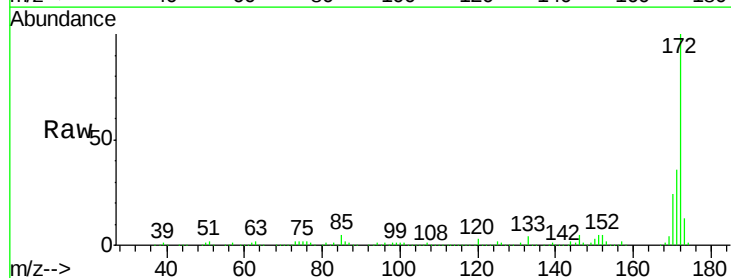


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

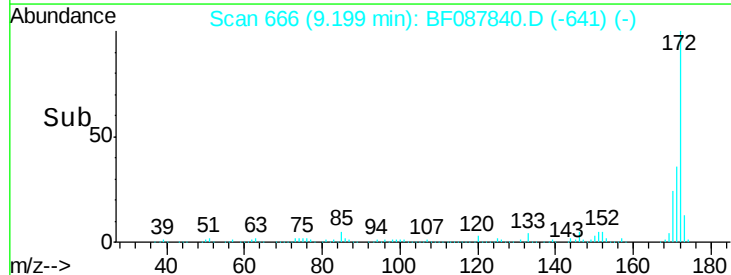
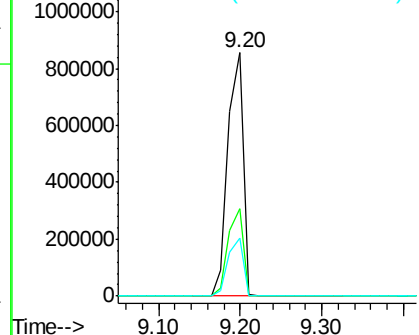


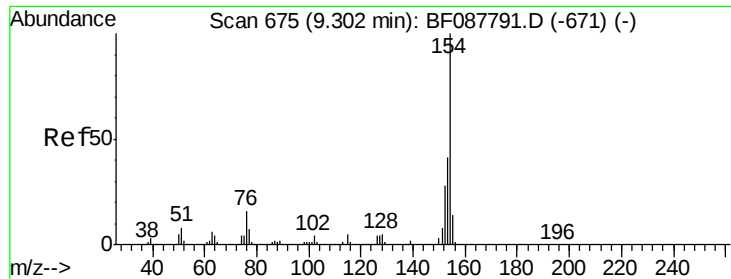
#44  
 2-Fluorobiphenyl  
 Concen: 112.73 ng  
 RT: 9.20 min Scan# 666  
 Delta R.T. -0.01 min  
 Lab File: BF087840.D  
 Acq: 9 Jun 2016 8:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 28.6  | 43.0  |
| 170     | 23.9  | 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





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.29 min Scan# 674

Delta R.T. -0.01 min

Lab File: BF087840.D

Acq: 9 Jun 2016 8:12

Instrument :

BNA\_F

ClientSampleId :

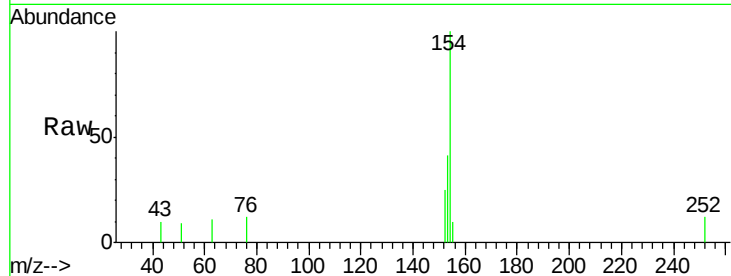
Tot Ion:154 Resp: 2601

Ion Ratio Lower Upper

154 100

153 41.3 20.6 60.6

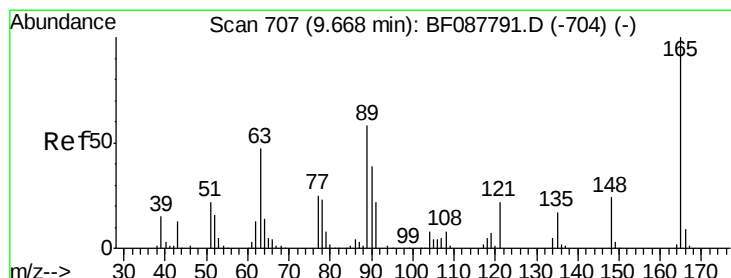
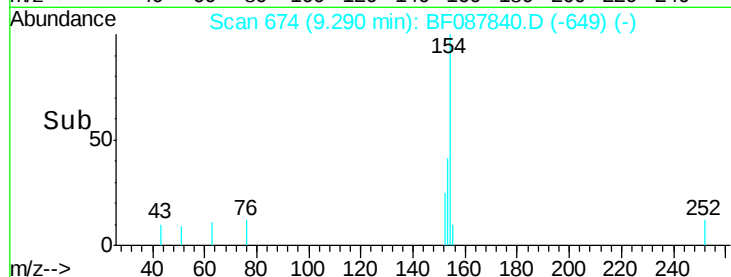
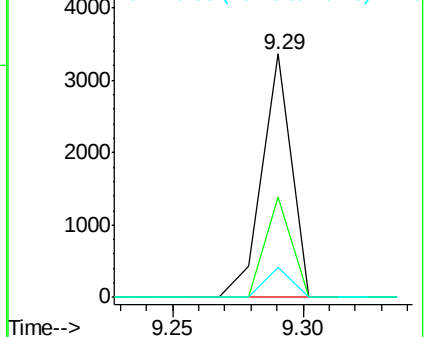
76 12.1 0.0 35.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#50

2,6-Dinitrotoluene

Concen: 7.57 ng

RT: 9.86 min Scan# 724

Delta R.T. 0.19 min

Lab File: BF087840.D

Acq: 9 Jun 2016 8:12

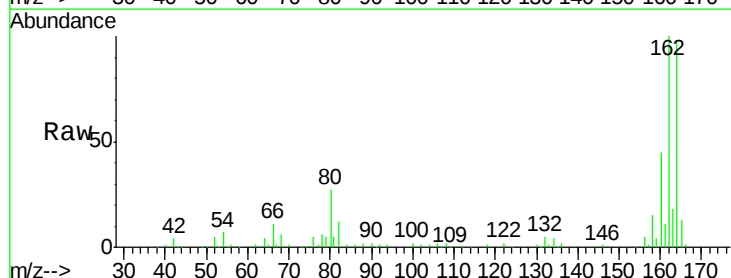
Tgt Ion:165 Resp: 19654

Ion Ratio Lower Upper

165 100

63 0.0 28.1 42.1#

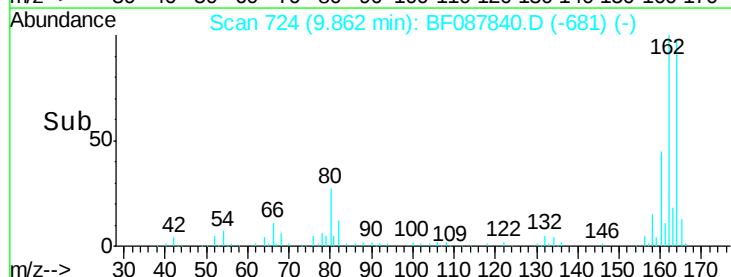
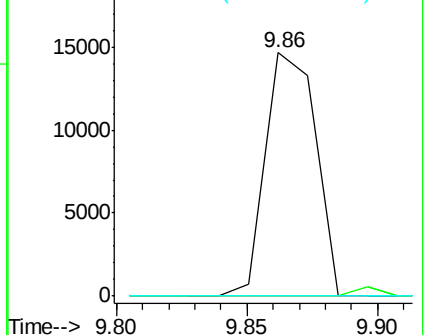
89 0.0 32.2 48.2#

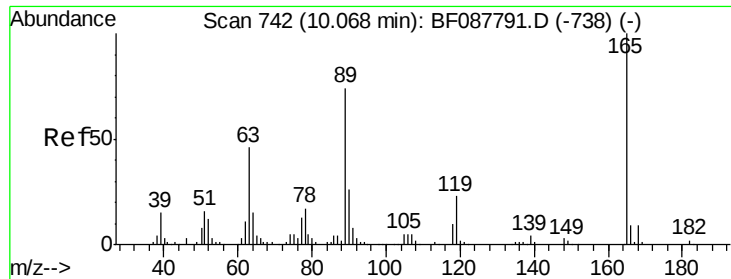


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

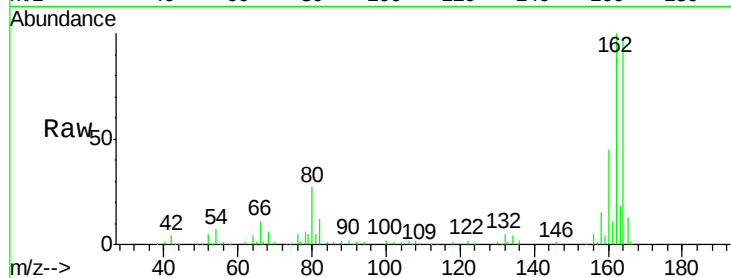




#56  
2,4-Dinitrotoluene  
Concen: 5.89 ng  
RT: 9.86 min Scan# 724  
Delta R.T. -0.21 min  
Lab File: BF087840.D  
Acq: 9 Jun 2016 8:12

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 22.0  | 33.0# |
| 89      | 0.0   | 41.1  | 61.7# |
| 182     | 0.0   | 2.0   | 3.0#  |

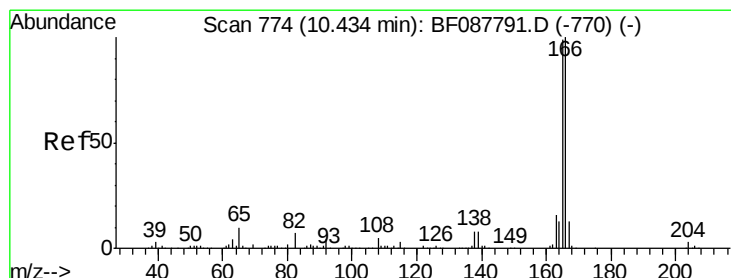
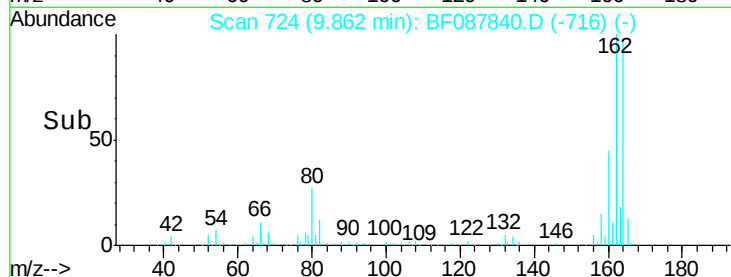
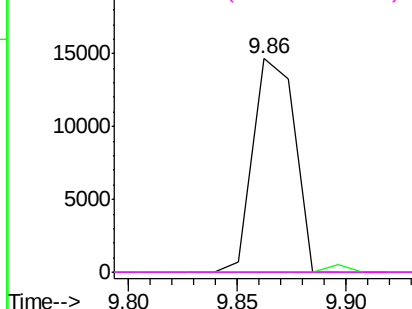


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

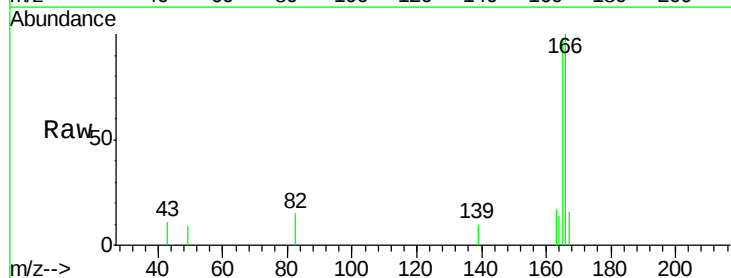
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57  
Fluorene  
Concen: Below Cal  
RT: 10.41 min Scan# 772  
Delta R.T. -0.02 min  
Lab File: BF087840.D  
Acq: 9 Jun 2016 8:12

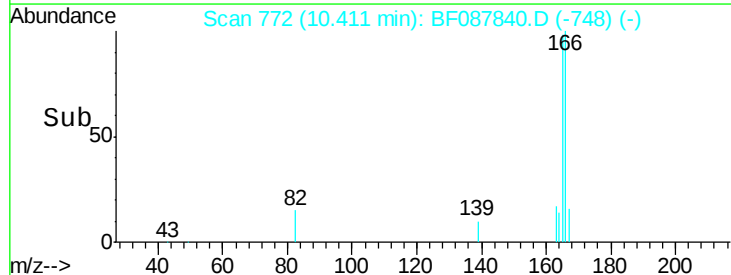
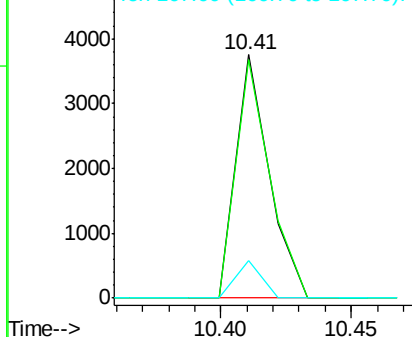
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.1  | 77.8  | 116.8 |
| 167     | 15.6  | 11.2  | 16.8  |

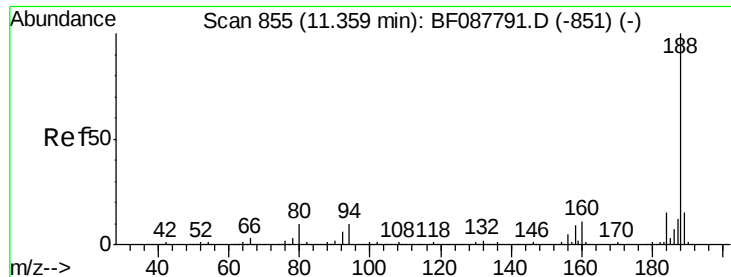


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

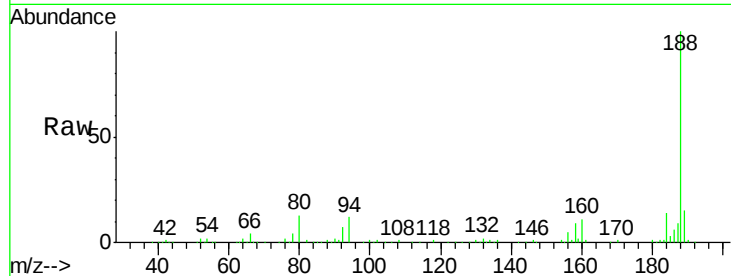




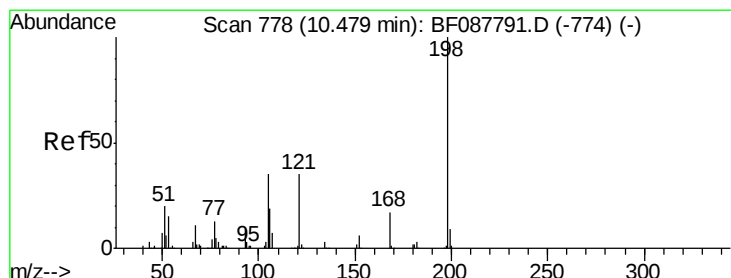
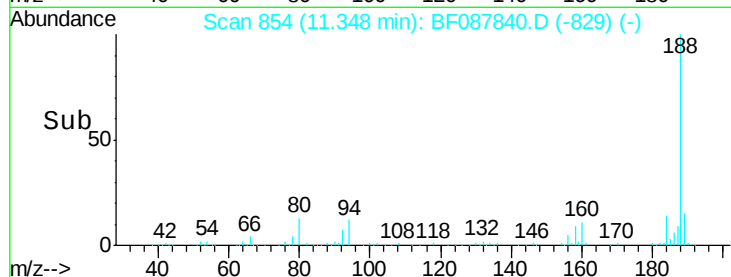
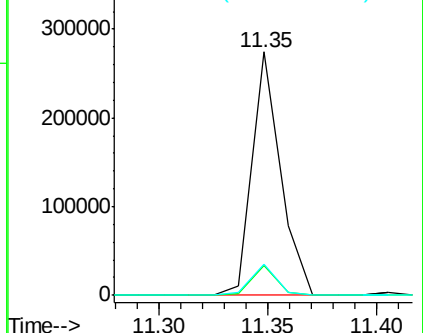
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.35 min Scan# 854  
Delta R.T. -0.01 min  
Lab File: BF087840.D  
Acq: 9 Jun 2016 8:12

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 250403  
Ion Ratio Lower Upper  
188 100  
94 12.1 9.0 13.6  
80 12.7 10.0 15.0

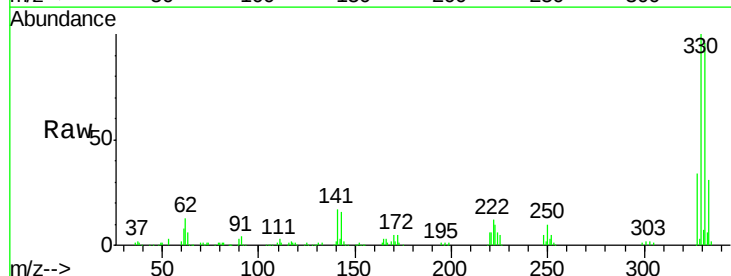


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

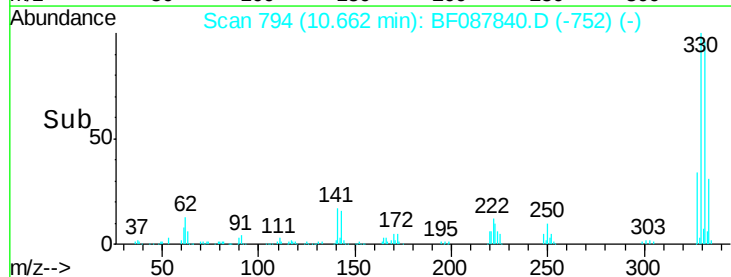
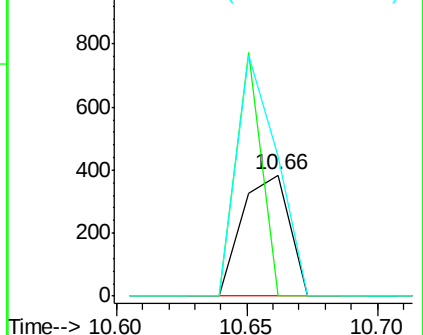


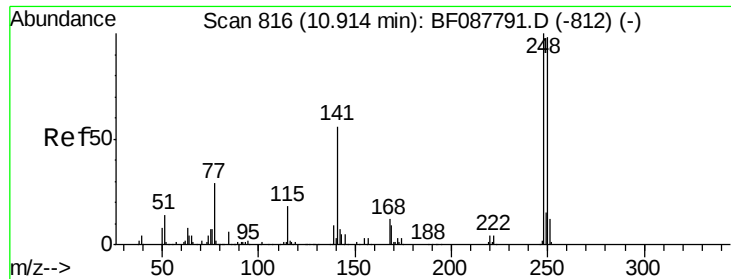
#64  
4,6-Dinitro-2-methylphenol  
Concen: 2.46 ng  
RT: 10.66 min Scan# 794  
Delta R.T. 0.18 min  
Lab File: BF087840.D  
Acq: 9 Jun 2016 8:12

Tgt Ion:198 Resp: 487  
Ion Ratio Lower Upper  
198 100  
51 0.0 39.6 79.6#  
105 115.4 36.6 76.6#



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





#66

4-Bromophenyl-phenylether

Concen: 4.72 ng

RT: 10.66 min Scan# 794

Delta R.T. -0.25 min

Lab File: BF087840.D

Acq: 9 Jun 2016 8:12

Instrument :

BNA\_F

ClientSampleId :

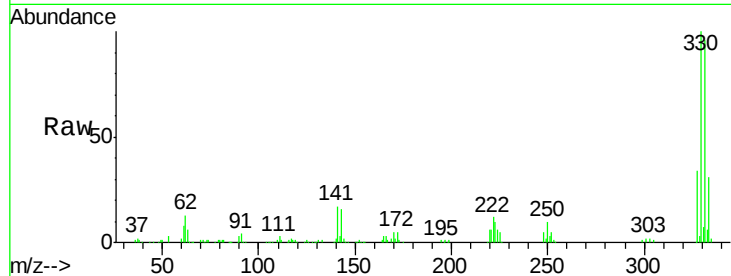
Tot Ion:248 Resp: 12671

Ion Ratio Lower Upper

248 100

250 200.7 77.1 115.7#

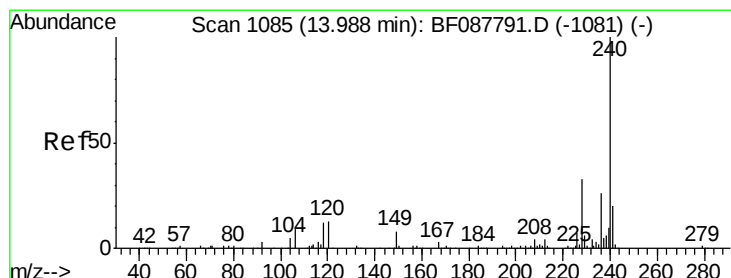
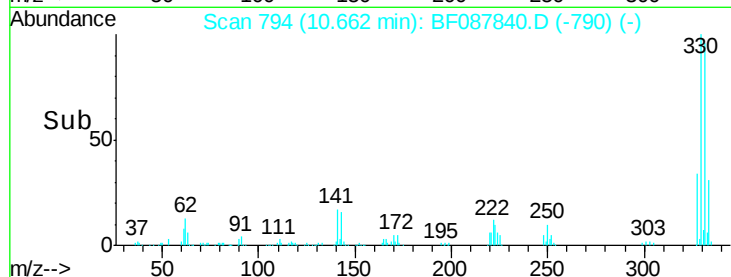
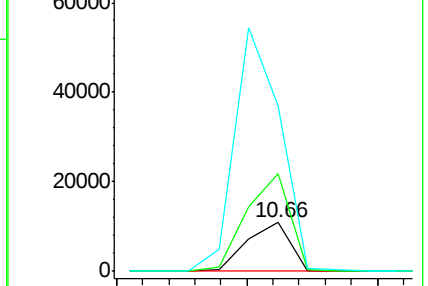
141 338.1 50.6 76.0#



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.99 min Scan# 1085

Delta R.T. -0.00 min

Lab File: BF087840.D

Acq: 9 Jun 2016 8:12

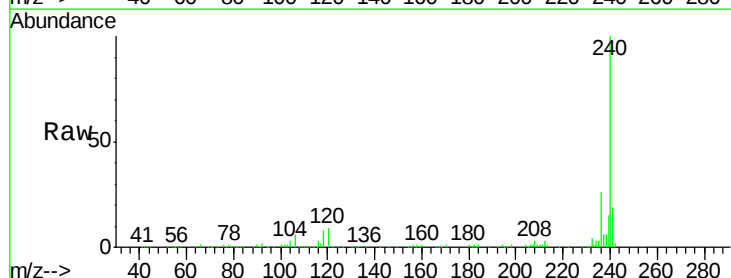
Tgt Ion:240 Resp: 223371

Ion Ratio Lower Upper

240 100

120 9.2 6.8 10.2

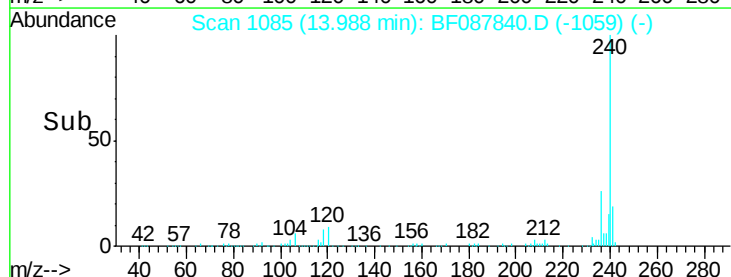
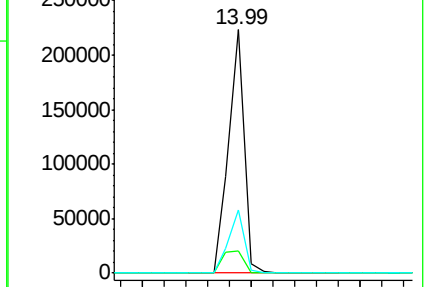
236 25.8 20.2 30.2

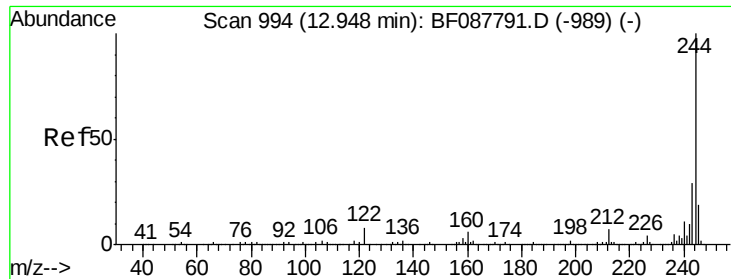


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

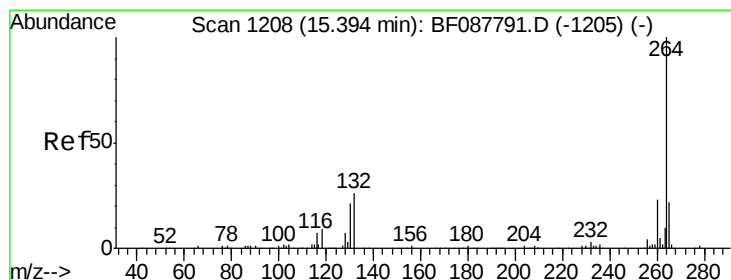
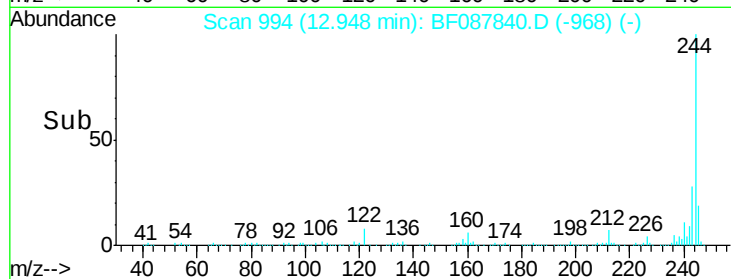
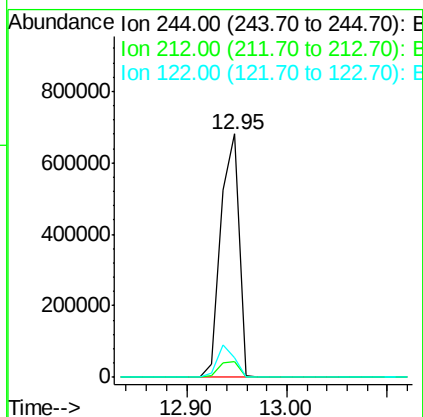
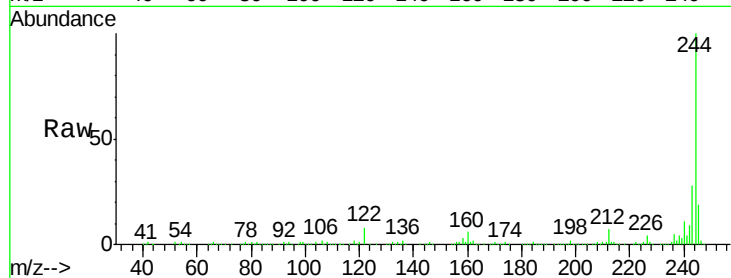




#78  
 Terphenyl-d14  
 Concen: 87.60 ng  
 RT: 12.95 min Scan# 994  
 Delta R.T. -0.00 min  
 Lab File: BF087840.D  
 Acq: 9 Jun 2016 8:12

Instrument :  
 BNA\_F  
 ClientSampleID :

Tot Ion:244 Resp: 859867  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 6.0 9.0  
 122 8.0 11.2 16.8#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.41 min Scan# 1209  
 Delta R.T. 0.01 min  
 Lab File: BF087840.D  
 Acq: 9 Jun 2016 8:12

Tgt Ion:264 Resp: 166347  
 Ion Ratio Lower Upper  
 264 100  
 260 23.2 19.2 28.8  
 265 21.5 16.9 25.3

