

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011817\  
 Data File : BF092345.D  
 Acq On : 18 Jan 2017 12:01  
 Operator : UM/SJ  
 Sample : PB96061TB  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB96061TB

Quant Time: Jan 18 23:57:12 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 06 15:43:51 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.70  | 152  | 524803   | 20.00 | ng    | 0.06     |
| 21) Naphthalene-d8        | 7.83  | 136  | 647389   | 20.00 | ng    | -0.10    |
| 38) Acenaphthene-d10      | 9.57  | 164  | 434681   | 20.00 | ng    | -0.11    |
| 63) Phenanthrene-d10      | 11.06 | 188  | 762359   | 20.00 | ng    | -0.10    |
| 75) Chrysene-d12          | 13.69 | 240  | 711048   | 20.00 | ng    | -0.10    |
| 86) Perylene-d12          | 15.03 | 264  | 638996   | 20.00 | ng    | -0.11    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.14  | 112  | 1130325  | 35.96  | ng    | -0.10    |
| 7) Phenol-d6                | 6.21  | 99   | 1713228  | 44.65  | ng    | -0.10    |
| 23) Nitrobenzene-d5         | 7.11  | 82   | 866886   | 74.46  | ng    | -0.10    |
| 41) 2,4,6-Tribromophenol    | 10.37 | 330  | 453740   | 126.13 | ng    | -0.10    |
| 44) 2-Fluorobiphenyl        | 8.91  | 172  | 1849013  | 87.54  | ng    | -0.10    |
| 78) Terphenyl-d14           | 12.65 | 244  | 2008051  | 68.49  | ng    | -0.10    |

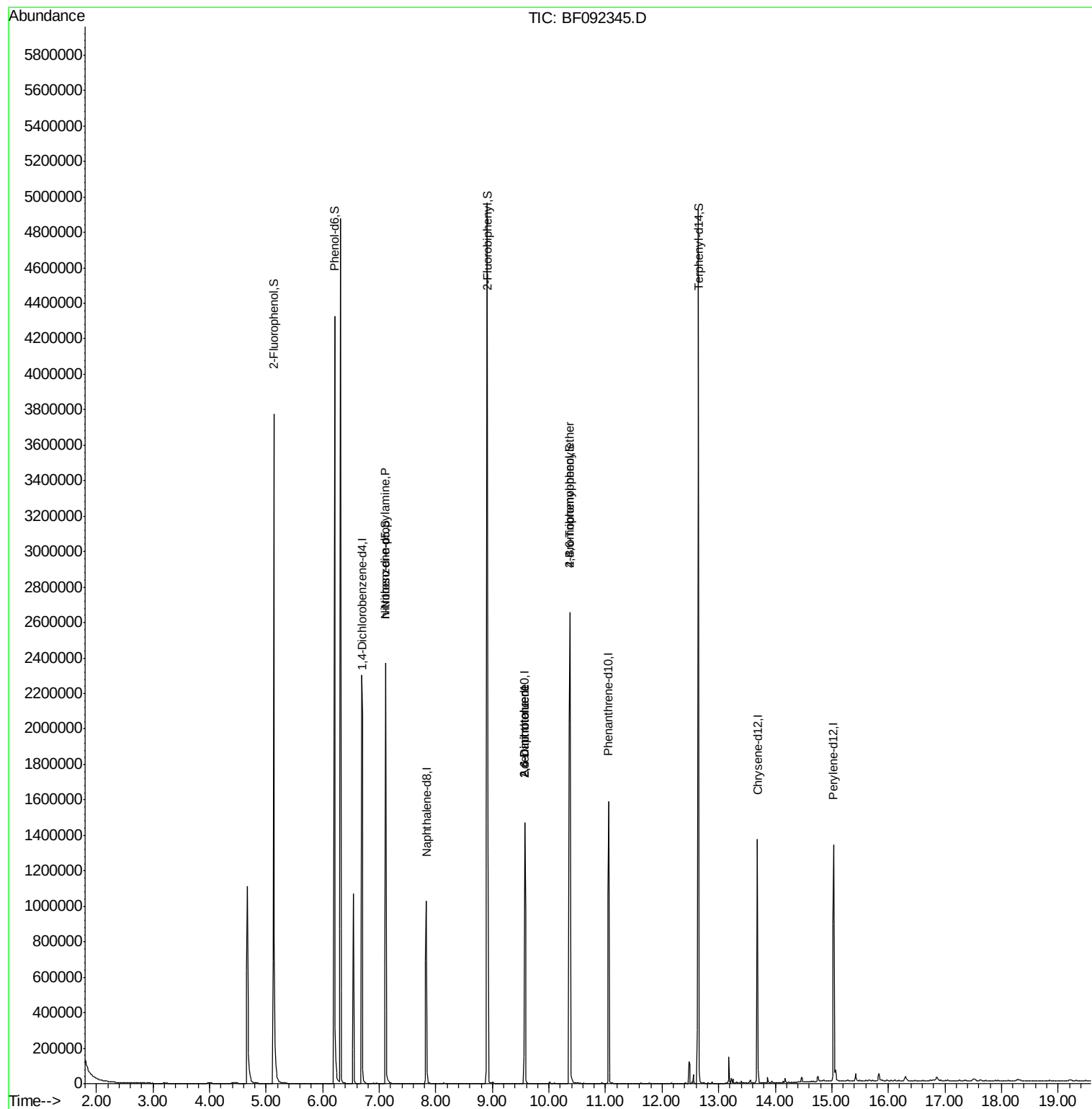
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.21  | 77   | 1998     | Below Cal | #     | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.11  | 70   | 116304   | 4.56      | ng    | 77     |
| 50) 2,6-Dinitrotoluene         | 9.57  | 165  | 56472    | 9.28      | ng    | 30     |
| 56) 2,4-Dinitrotoluene         | 9.57  | 165  | 56475    | 7.39      | ng    | 20     |
| 66) 4-Bromophenyl-phenylether  | 10.37 | 248  | 29109    | 3.67      | ng    | 1      |
| 71) Anthracene                 | 11.06 | 178  | 217      | Below Cal | #     | 1      |
| 73) Di-n-butylphthalate        | 11.63 | 149  | 774      | Below Cal | #     | 76     |
| 76) Benzidine                  | 12.41 | 184  | 3756     | Below Cal | #     | 97     |

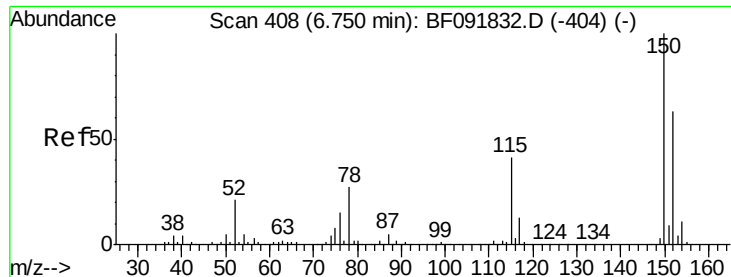
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jan 06 15:43:51 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.70 min Scan# 430

Delta R.T. 0.06 min

Lab File: BF092345.D

Acq: 18 Jan 2017 12:01

Instrument :

BNA\_F

ClientSampleId :

PB96061TB

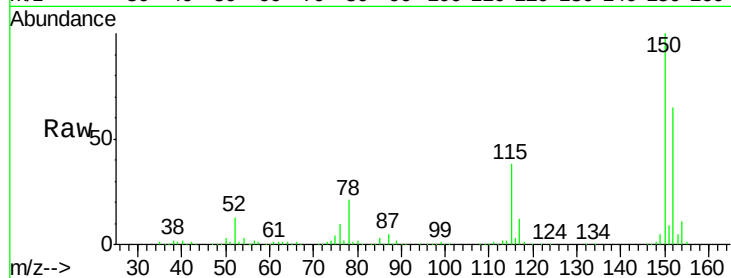
Tgt Ion:152 Resp: 524803

Ion Ratio Lower Upper

152 100

150 152.7 124.9 187.3

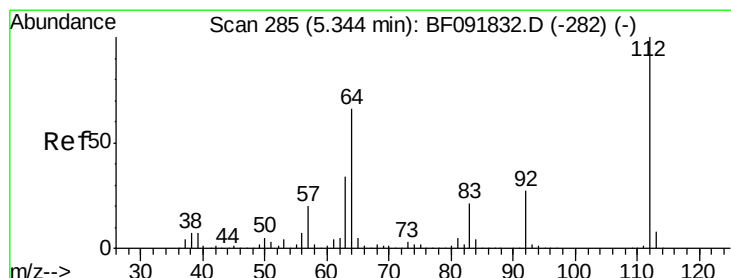
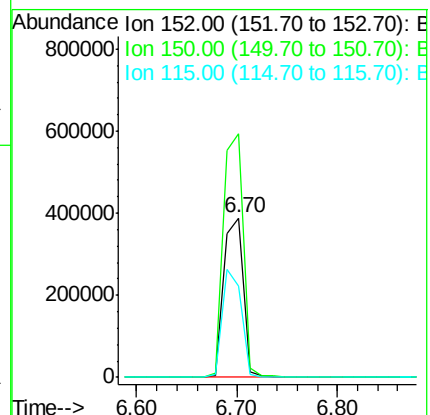
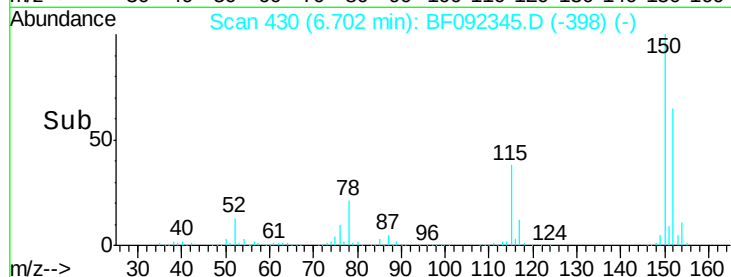
115 57.5 46.0 69.0



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: 35.96 ng

RT: 5.14 min Scan# 293

Delta R.T. -0.10 min

Lab File: BF092345.D

Acq: 18 Jan 2017 12:01

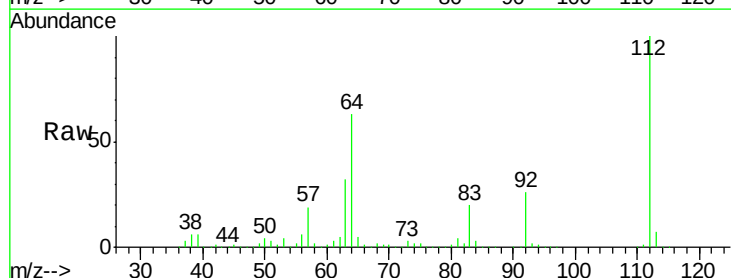
Tgt Ion:112 Resp: 1130325

Ion Ratio Lower Upper

112 100

64 62.9 46.1 69.1

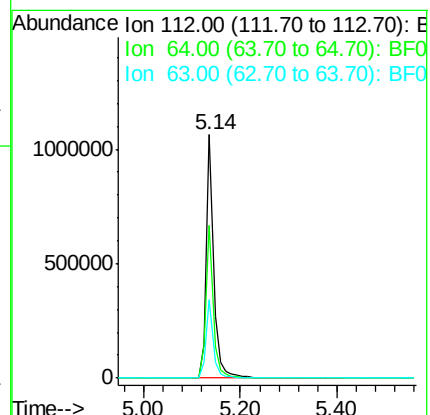
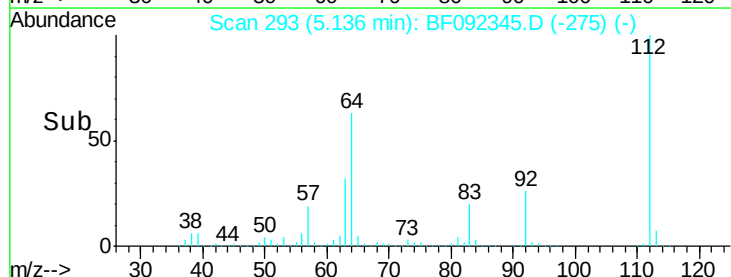
63 32.3 23.8 35.6

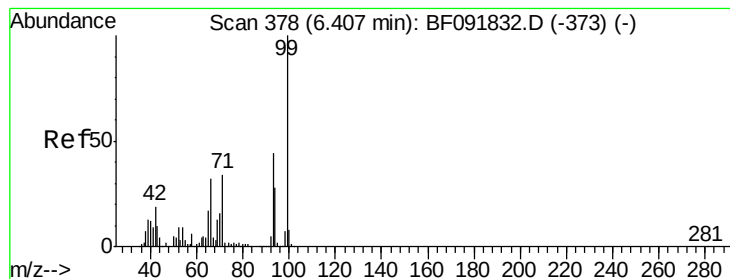


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 44.65 ng

RT: 6.21 min Scan# 387

Delta R.T. -0.10 min

Lab File: BF092345.D

Acq: 18 Jan 2017 12:01

Instrument :

BNA\_F

ClientSampleId :

PB96061TB

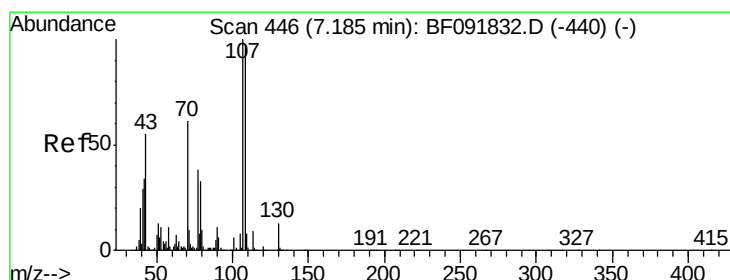
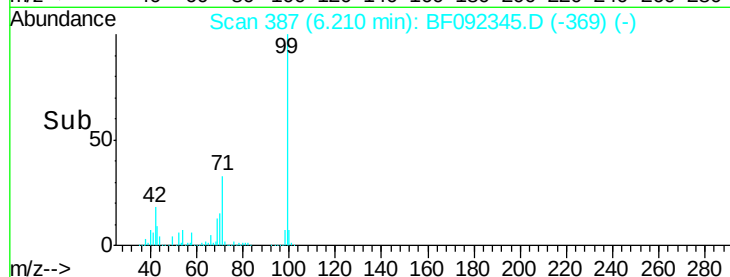
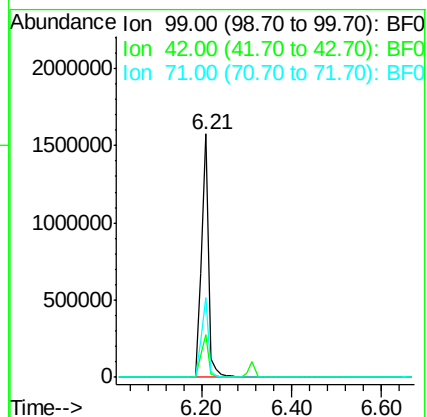
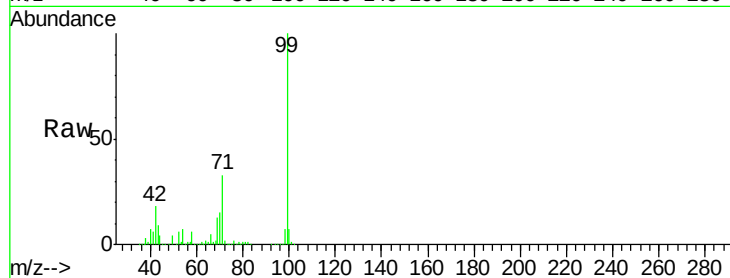
Tgt Ion: 99 Resp: 1713228

Ion Ratio Lower Upper

99 100

42 17.7 15.6 23.4

71 32.8 27.5 41.3



#19

n-Nitroso-di-n-propylamine

Concen: 4.56 ng

RT: 7.11 min Scan# 466

Delta R.T. 0.04 min

Lab File: BF092345.D

Acq: 18 Jan 2017 12:01

Tgt Ion: 70 Resp: 116304

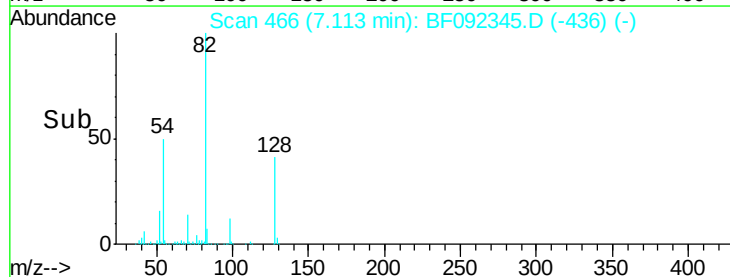
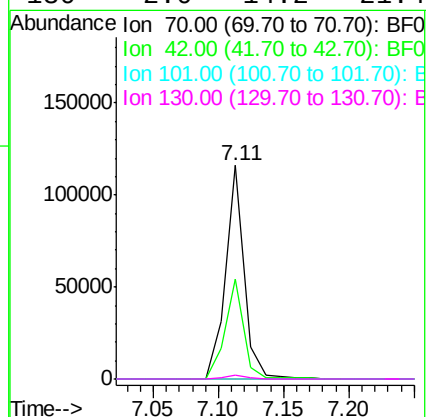
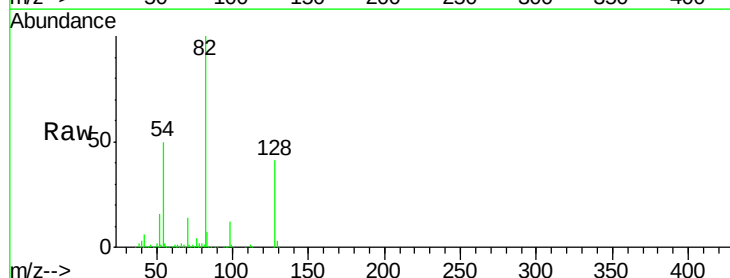
Ion Ratio Lower Upper

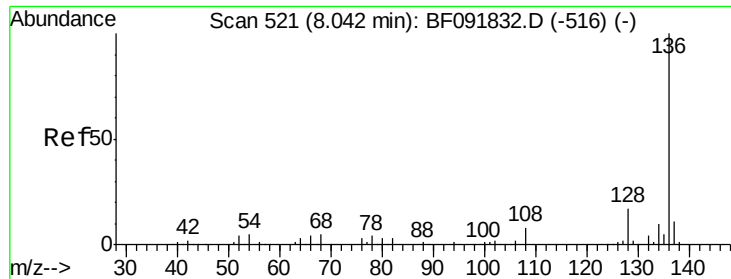
70 100

42 46.8 49.4 74.0#

101 0.0 7.4 11.2#

130 2.0 14.2 21.4#

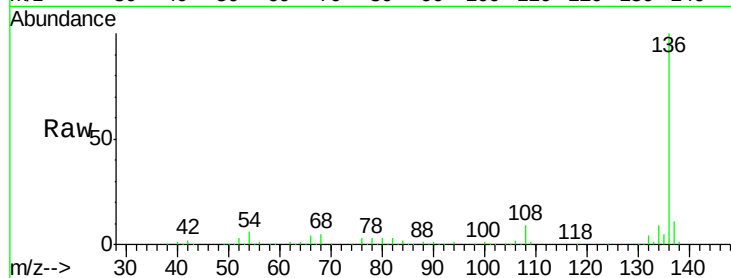




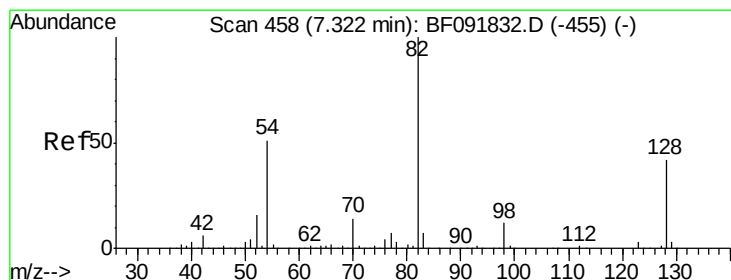
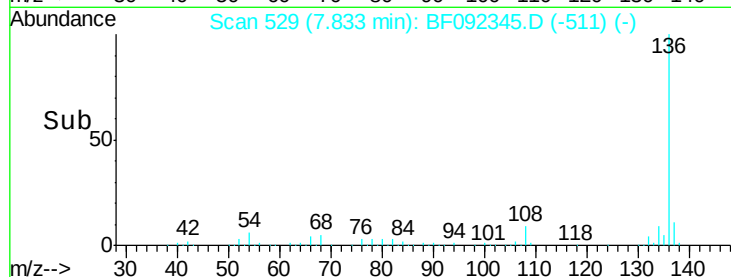
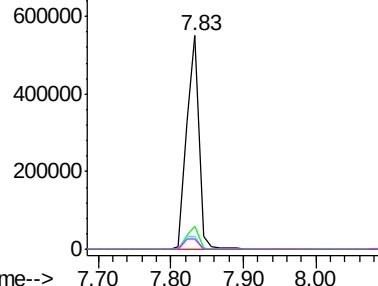
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.83 min Scan# 529  
Delta R.T. -0.10 min  
Lab File: BF092345.D  
Acq: 18 Jan 2017 12:01

Instrument :  
BNA\_F  
ClientSampleId :  
PB96061TB

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 647389 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.4   | 12.6   |
| 54       | 5.9   | 4.5   | 6.7    |
| 68       | 5.0   | 3.6   | 5.4    |

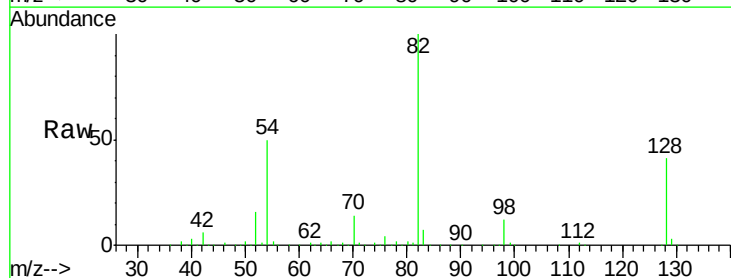


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

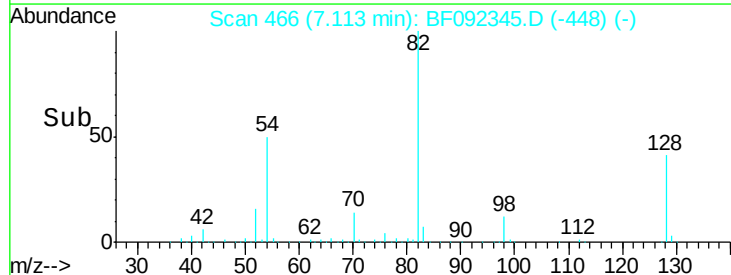
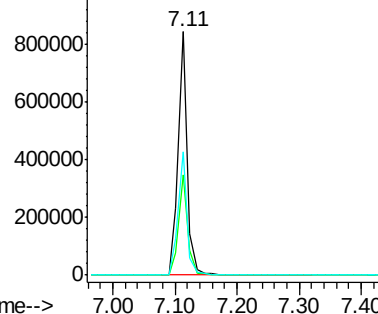


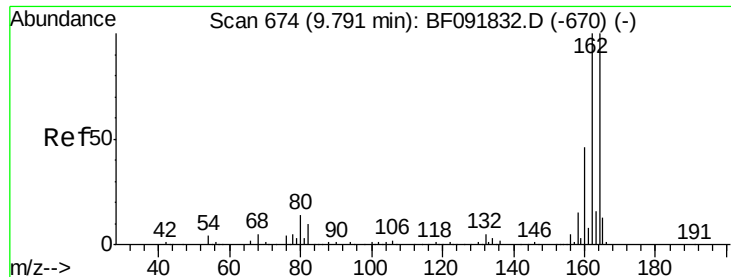
#23  
Nitrobenzene-d5  
Concen: 74.46 ng  
RT: 7.11 min Scan# 466  
Delta R.T. -0.10 min  
Lab File: BF092345.D  
Acq: 18 Jan 2017 12:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 866886 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.9  | 34.6  | 52.0   |
| 54       | 50.5  | 39.5  | 59.3   |



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.57 min Scan# 681

Delta R.T. -0.11 min

Lab File: BF092345.D

Acq: 18 Jan 2017 12:01

Instrument :

BNA\_F

ClientSampleId :

PB96061TB

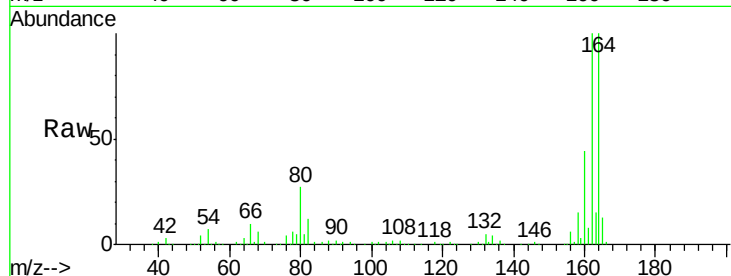
Tgt Ion:164 Resp: 434681

Ion Ratio Lower Upper

164 100

162 100.1 80.2 120.2

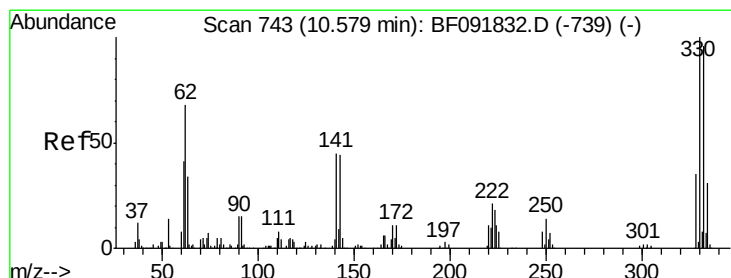
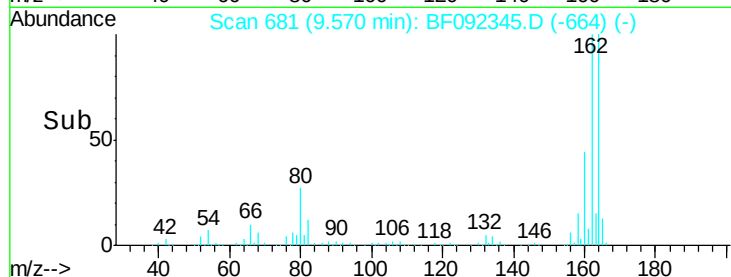
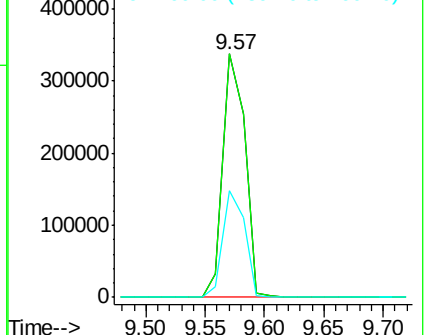
160 44.0 36.9 55.3



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: 126.13 ng

RT: 10.37 min Scan# 751

Delta R.T. -0.10 min

Lab File: BF092345.D

Acq: 18 Jan 2017 12:01

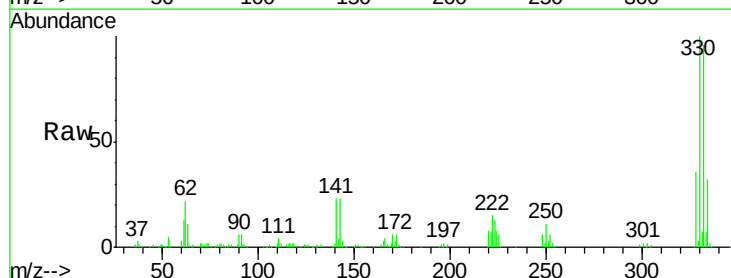
Tgt Ion:330 Resp: 453740

Ion Ratio Lower Upper

330 100

332 95.9 77.4 116.2

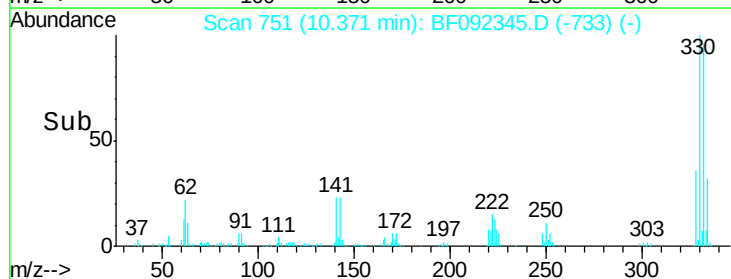
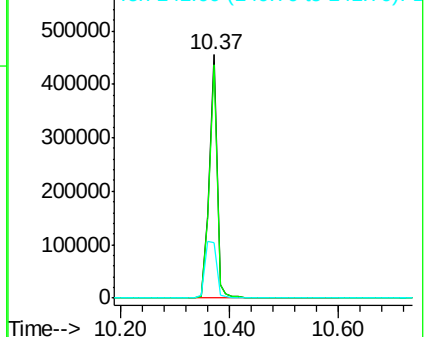
141 34.1 34.1 51.1#

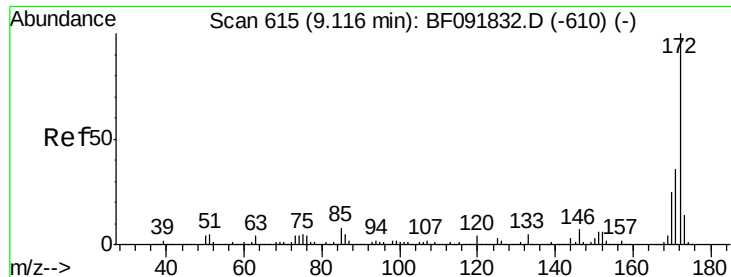


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

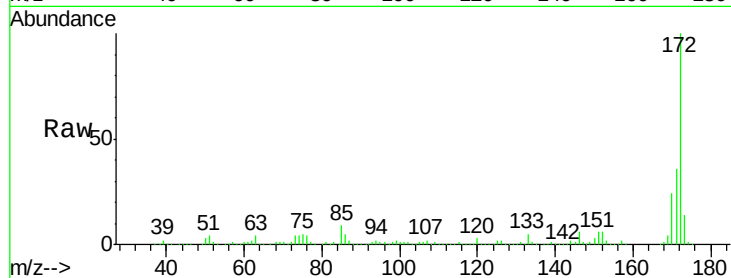




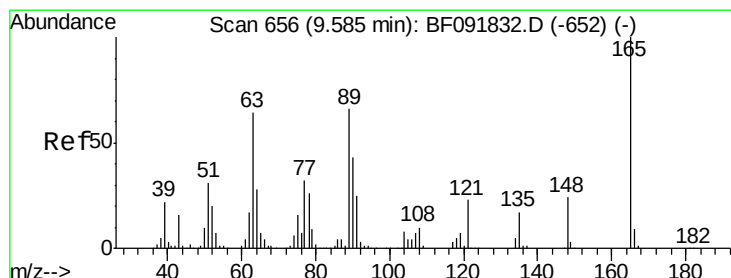
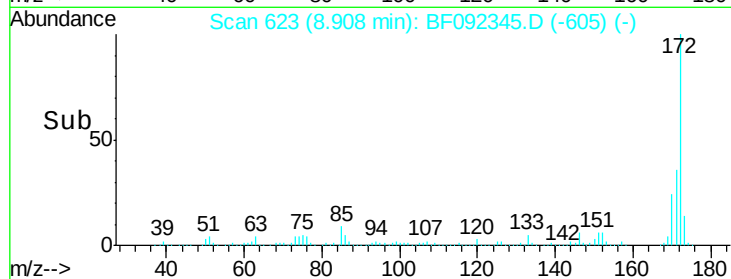
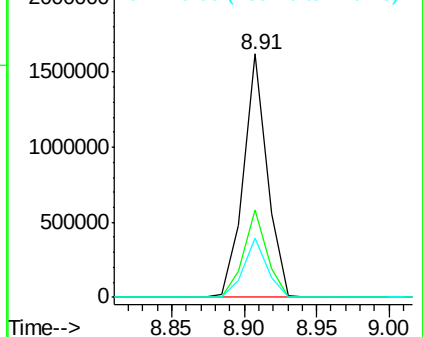
#44  
 2-Fluorobiphenyl  
 Concen: 87.54 ng  
 RT: 8.91 min Scan# 623  
 Delta R.T. -0.10 min  
 Lab File: BF092345.D  
 Acq: 18 Jan 2017 12:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB96061TB

Tgt Ion:172 Resp: 1849013  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 29.4 44.0  
 170 24.2 20.2 30.4

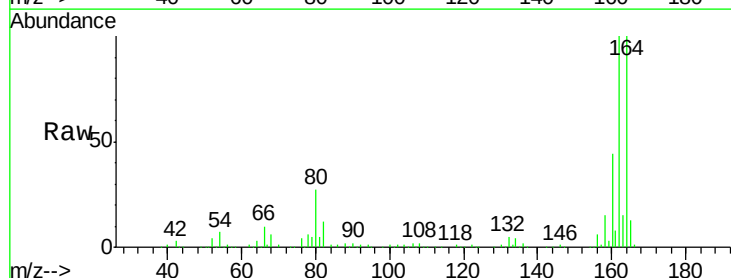


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

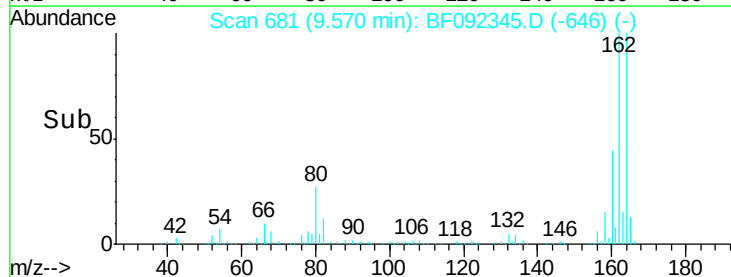
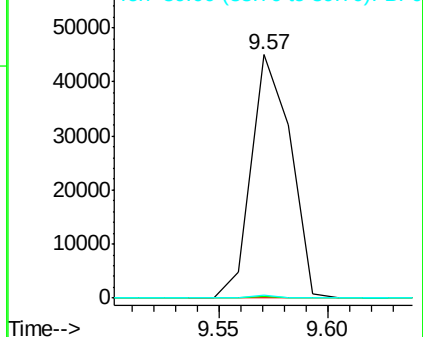


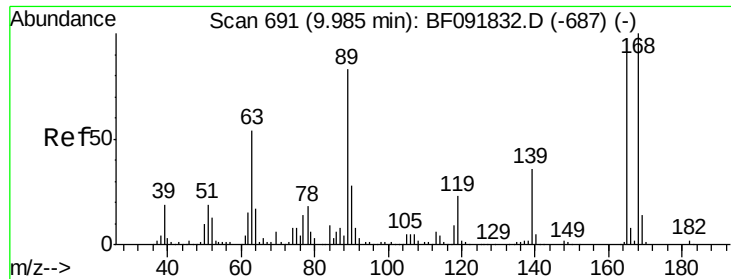
#50  
 2,6-Dinitrotoluene  
 Concen: 9.28 ng  
 RT: 9.57 min Scan# 681  
 Delta R.T. 0.09 min  
 Lab File: BF092345.D  
 Acq: 18 Jan 2017 12:01

Tgt Ion:165 Resp: 56472  
 Ion Ratio Lower Upper  
 165 100  
 63 0.9 36.2 54.4#  
 89 1.1 40.2 60.4#



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: 7.39 ng

RT: 9.57 min Scan# 681

Delta R.T. -0.32 min

Lab File: BF092345.D

Acq: 18 Jan 2017 12:01

Instrument :

BNA\_F

ClientSampleId :

PB96061TB

Tgt Ion:165 Resp: 56475

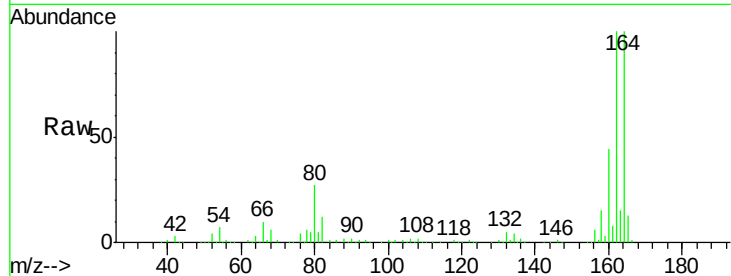
Ion Ratio Lower Upper

165 100

63 0.9 40.2 60.4#

89 1.1 62.5 93.7#

182 0.0 1.8 2.8#

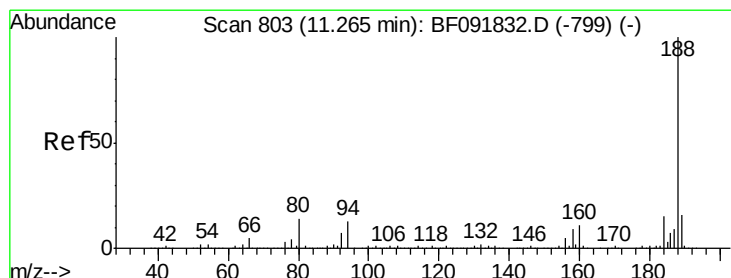
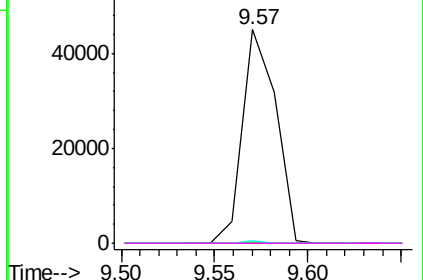
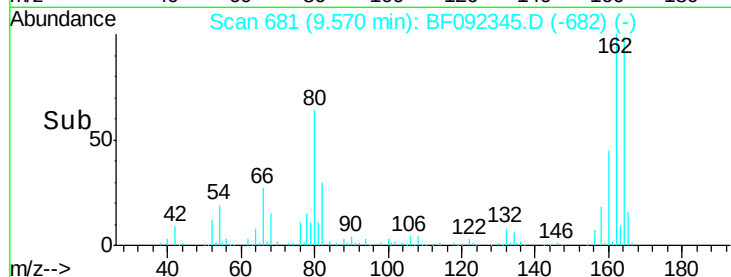


Abundance Ion 165.00 (164.70 to 165.70): E

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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.06 min Scan# 811

Delta R.T. -0.10 min

Lab File: BF092345.D

Acq: 18 Jan 2017 12:01

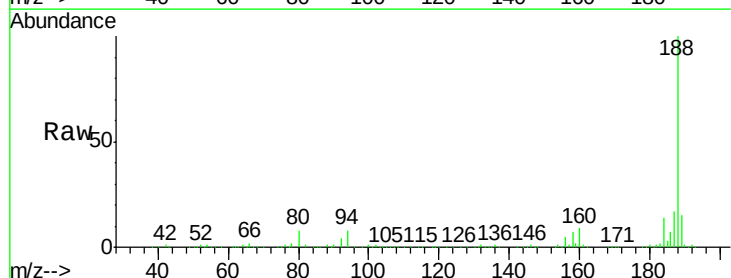
Tgt Ion:188 Resp: 762359

Ion Ratio Lower Upper

188 100

94 7.9 10.0 15.0#

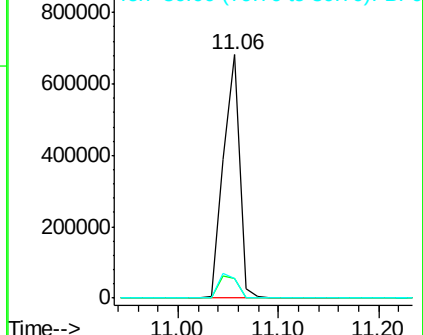
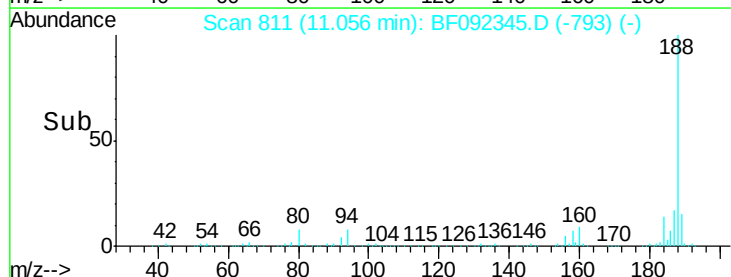
80 7.9 11.2 16.8#



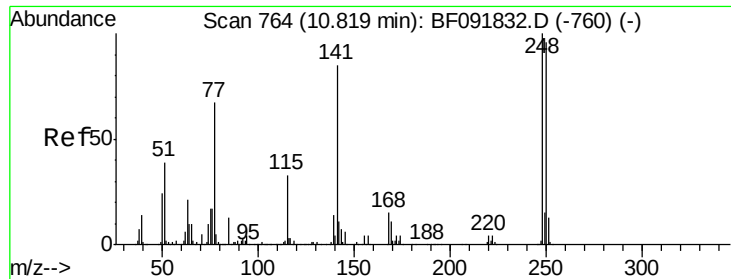
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



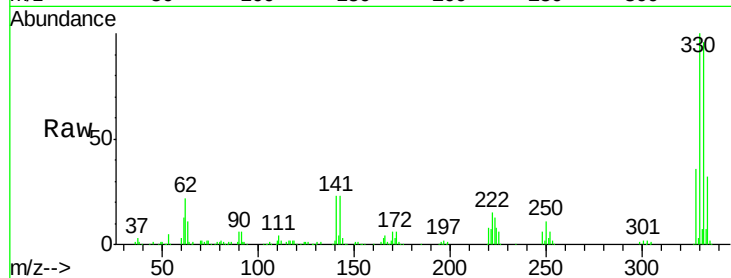




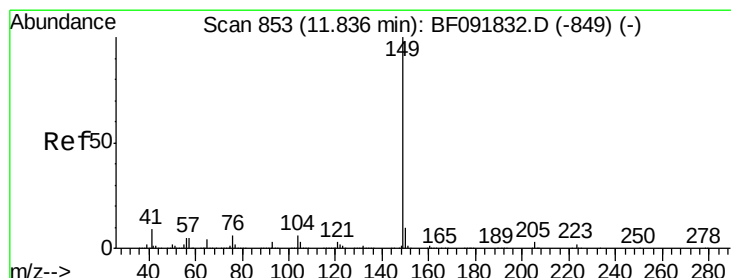
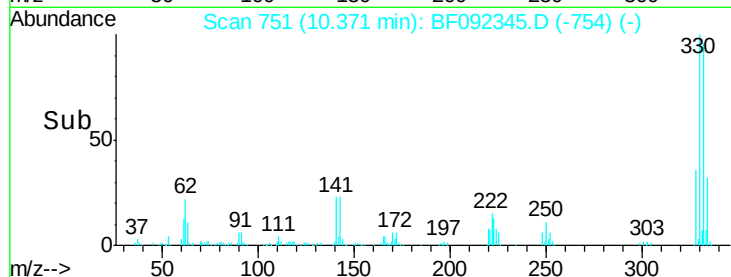
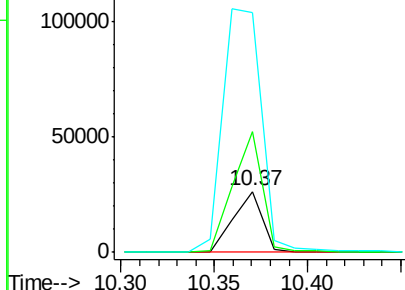
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.67 ng  
 RT: 10.37 min Scan# 751  
 Delta R.T. -0.34 min  
 Lab File: BF092345.D  
 Acq: 18 Jan 2017 12:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB96061TB

Tgt Ion:248 Resp: 29109  
 Ion Ratio Lower Upper  
 248 100  
 250 196.5 76.9 115.3#  
 141 391.2 68.2 102.4#

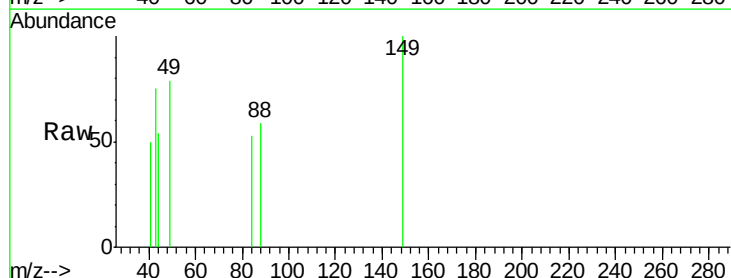


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

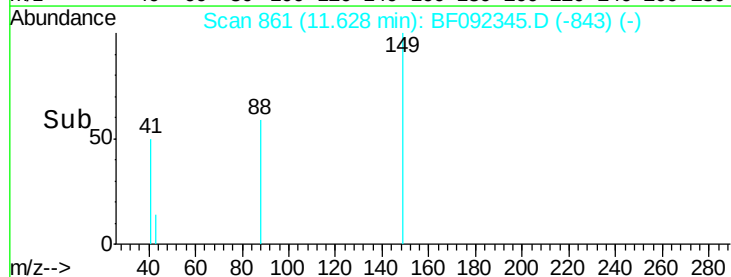
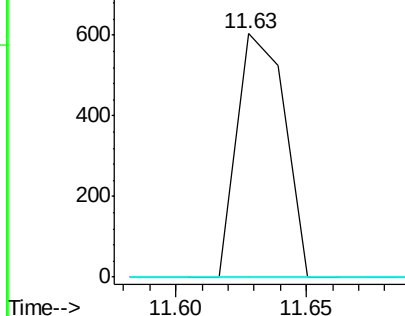


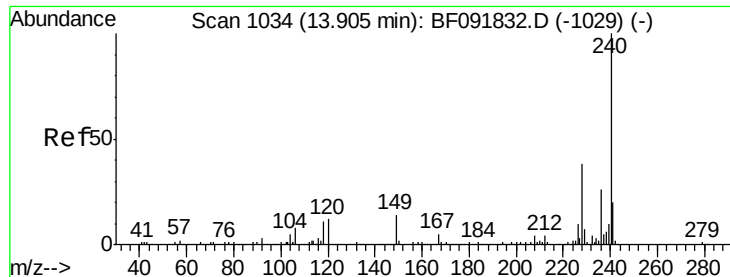
#73  
 Di-n-butylphthalate  
 Concen: Below Cal  
 RT: 11.63 min Scan# 861  
 Delta R.T. -0.10 min  
 Lab File: BF092345.D  
 Acq: 18 Jan 2017 12:01

Tgt Ion:149 Resp: 774  
 Ion Ratio Lower Upper  
 149 100  
 150 0.0 8.1 12.1#  
 104 0.0 4.6 7.0#



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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.69 min Scan# 1041

Delta R.T. -0.10 min

Lab File: BF092345.D

Acq: 18 Jan 2017 12:01

Instrument :

BNA\_F

ClientSampleId :

PB96061TB

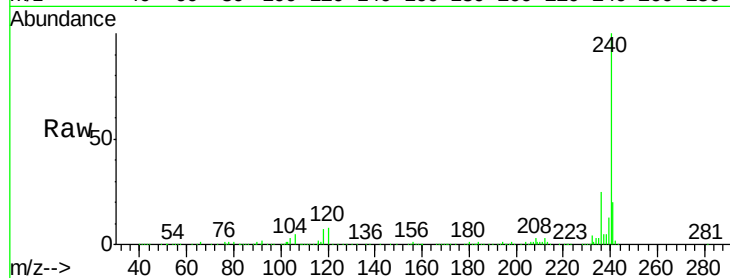
Tgt Ion:240 Resp: 711048

Ion Ratio Lower Upper

240 100

120 8.4 12.9 19.3#

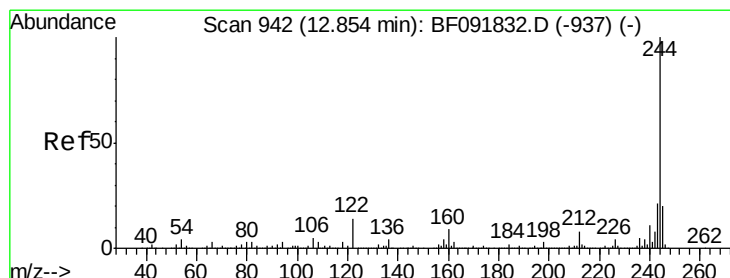
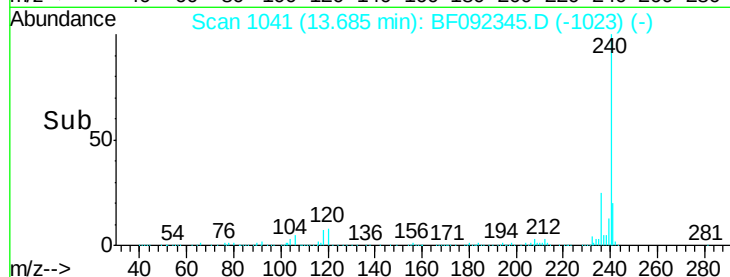
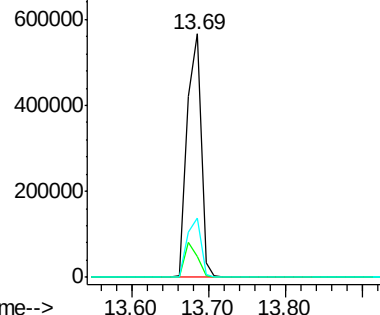
236 24.5 20.9 31.3



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: 68.49 ng

RT: 12.65 min Scan# 950

Delta R.T. -0.10 min

Lab File: BF092345.D

Acq: 18 Jan 2017 12:01

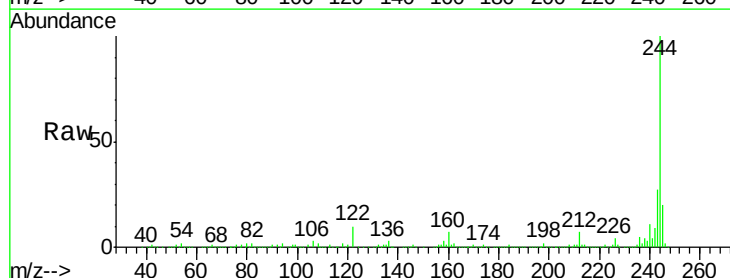
Tgt Ion:244 Resp: 2008051

Ion Ratio Lower Upper

244 100

212 7.0 6.2 9.2

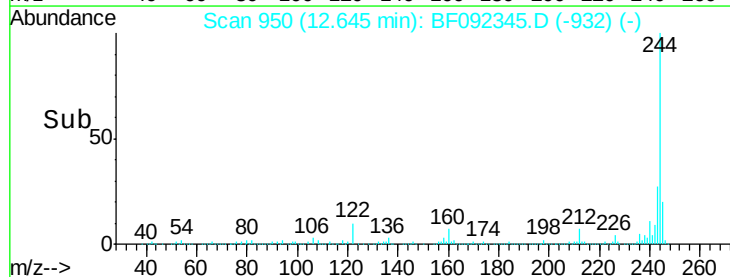
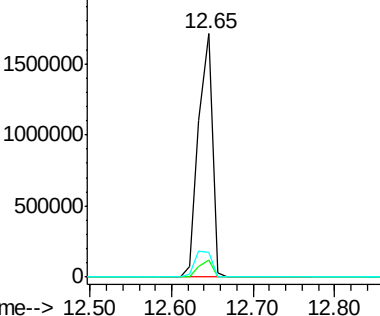
122 10.0 11.4 17.2#

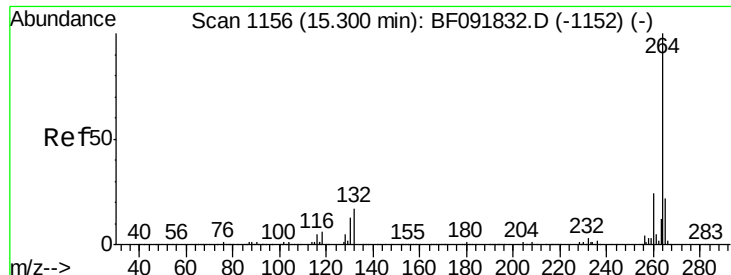


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

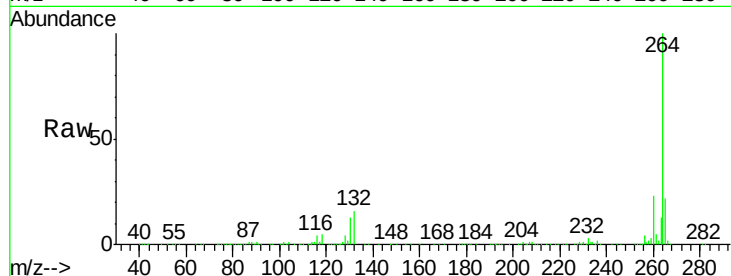




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.03 min Scan# 1159  
Delta R.T. -0.11 min  
Lab File: BF092345.D  
Acq: 18 Jan 2017 12:01

Instrument :  
BNA\_F  
ClientSampleId :  
PB96061TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.2  | 28.8  |
| 265     | 21.7  | 17.4  | 26.0  |



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

