

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF010616\  
 Data File : BF084287.D  
 Acq On : 6 Jan 2016 14:00  
 Operator : SJ/UM  
 Sample : PB87652BL  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB87652BL

Quant Time: Jan 07 00:06:51 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF123115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 04 12:22:40 2016  
 Response via : Initial Calibration

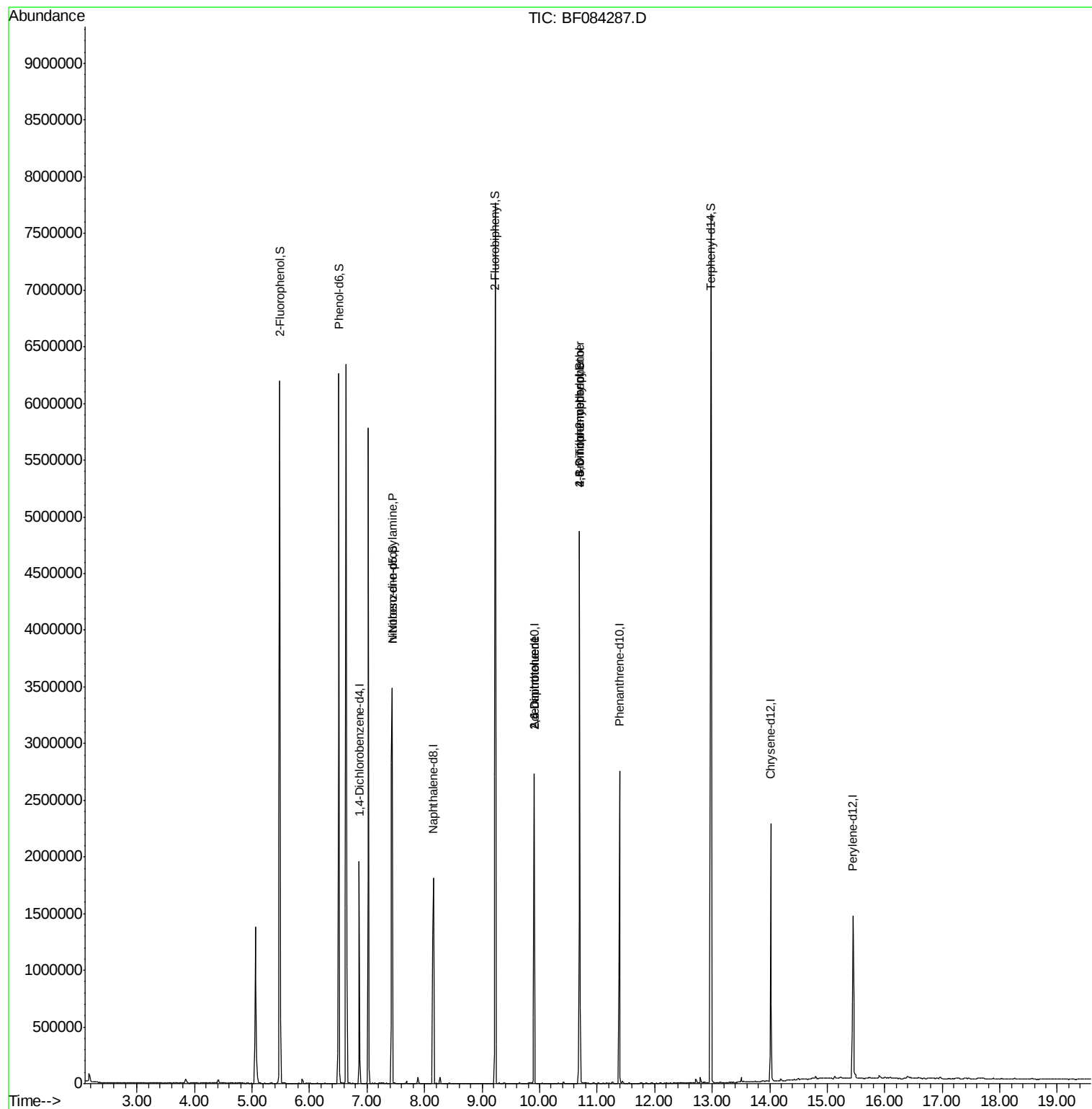
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 252502   | 20.00     | ng    | -0.03    |
| 21) Naphthalene-d8             | 8.16  | 136  | 1087123  | 20.00     | ng    | -0.03    |
| 38) Acenaphthene-d10           | 9.90  | 164  | 525555   | 20.00     | ng    | -0.05    |
| 63) Phenanthrene-d10           | 11.39 | 188  | 1012916  | 20.00     | ng    | -0.03    |
| 75) Chrysene-d12               | 14.02 | 240  | 804693   | 20.00     | ng    | -0.05    |
| 86) Perylene-d12               | 15.45 | 264  | 658052   | 20.00     | ng    | -0.06    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.48  | 112  | 1658614  | 106.25    | ng    | -0.01    |
| 7) Phenol-d6                   | 6.51  | 99   | 2176565  | 111.01    | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.44  | 82   | 1570393  | 80.40     | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol       | 10.69 | 330  | 568099   | 107.07    | ng    | -0.05    |
| 44) 2-Fluorobiphenyl           | 9.23  | 172  | 2356265  | 78.38     | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.98 | 244  | 2369430  | 65.73     | ng    | -0.03    |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 215792   | 16.26     | ng    | # 75     |
| 50) 2,6-Dinitrotoluene         | 9.90  | 165  | 69001    | 8.37      | ng    | # 37     |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165  | 69003    | 6.62      | ng    | # 21     |
| 57) Fluorene                   | 10.69 | 166  | 24179    | Below Cal | #     | 84       |
| 64) 4,6-Dinitro-2-methylphenol | 10.69 | 198  | 1384     | 6.59      | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.69 | 248  | 37099    | 3.40      | ng    | # 1      |
| 73) Di-n-butylphthalate        | 11.95 | 149  | 981      | Below Cal | #     | 79       |

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

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Quant Time: Jan 07 00:06:51 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF123115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 04 12:22:40 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.86 min Scan# 418

Delta R.T. -0.03 min

Lab File: BF084287.D

Acq: 6 Jan 2016 14:00

Instrument :

BNA\_F

ClientSampleId :

PB87652BL

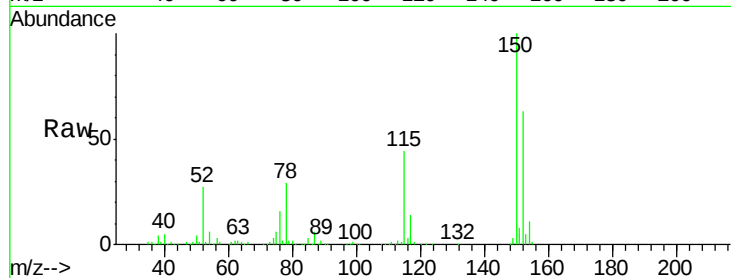
Tgt Ion:152 Resp: 252502

Ion Ratio Lower Upper

152 100

150 158.8 123.0 184.4

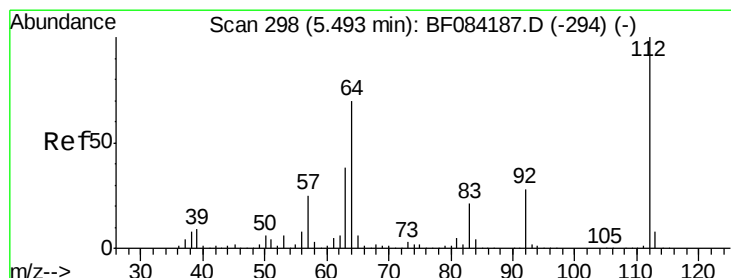
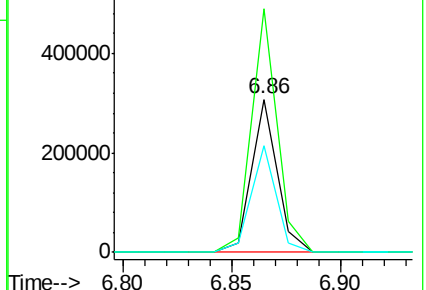
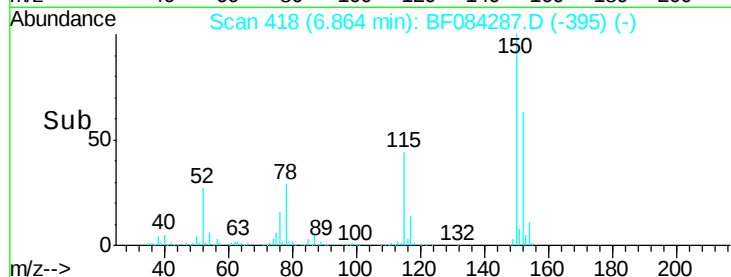
115 69.5 51.4 77.2



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: 106.25 ng

RT: 5.48 min Scan# 297

Delta R.T. -0.01 min

Lab File: BF084287.D

Acq: 6 Jan 2016 14:00

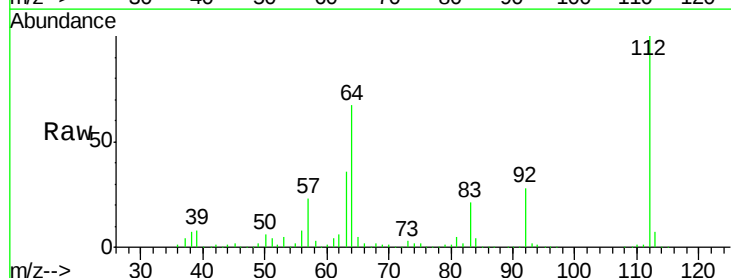
Tgt Ion:112 Resp: 1658614

Ion Ratio Lower Upper

112 100

64 67.3 36.6 55.0#

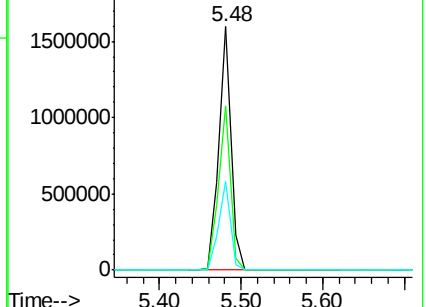
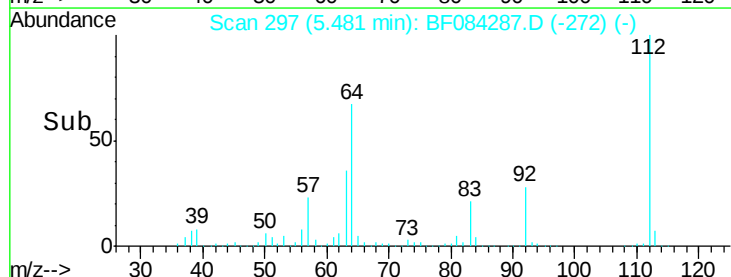
63 36.4 19.4 29.0#

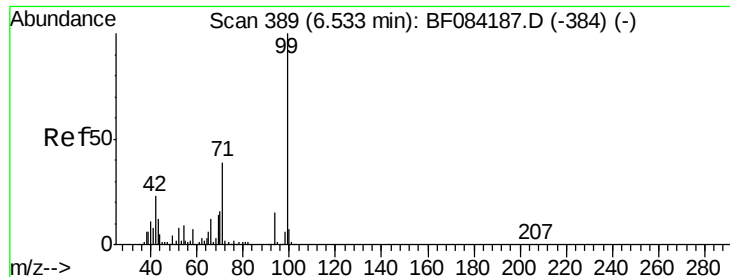


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 111.01 ng

RT: 6.51 min Scan# 387

Delta R.T. -0.02 min

Lab File: BF084287.D

Acq: 6 Jan 2016 14:00

Instrument :

BNA\_F

ClientSampled :

PB87652BL

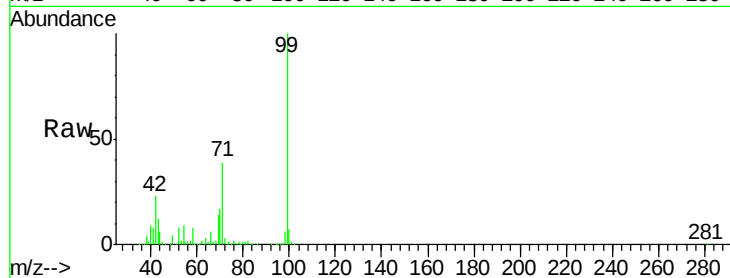
Tgt Ion: 99 Resp: 2176565

Ion Ratio Lower Upper

99 100

42 23.0 12.8 19.2#

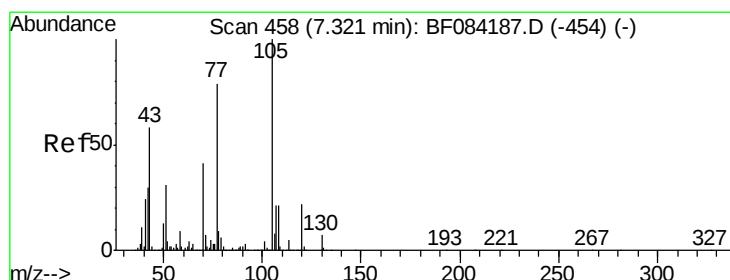
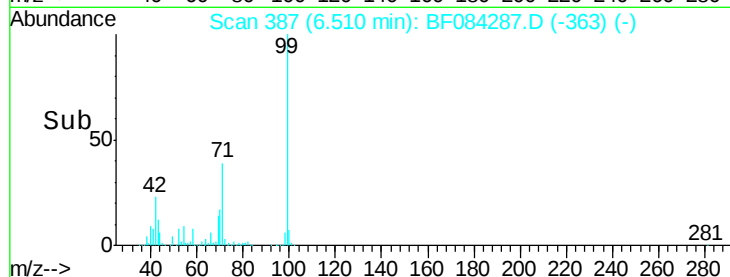
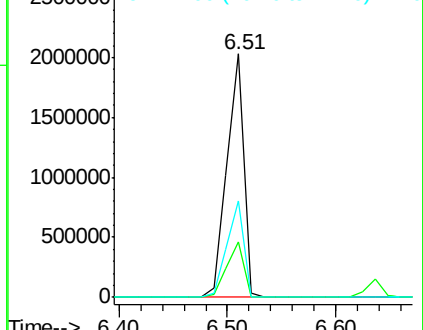
71 39.5 30.9 46.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 16.26 ng

RT: 7.44 min Scan# 468

Delta R.T. 0.11 min

Lab File: BF084287.D

Acq: 6 Jan 2016 14:00

Tgt Ion: 70 Resp: 215792

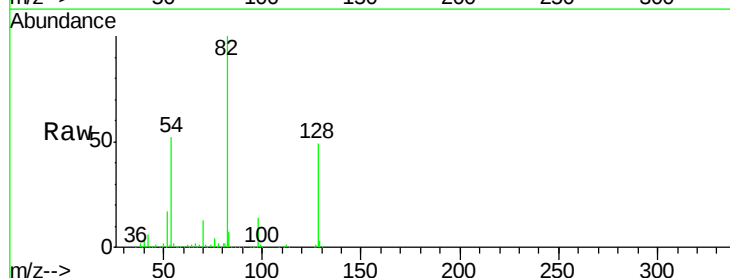
Ion Ratio Lower Upper

70 100

42 44.5 33.3 49.9

101 0.0 9.3 13.9#

130 2.1 23.4 35.0#

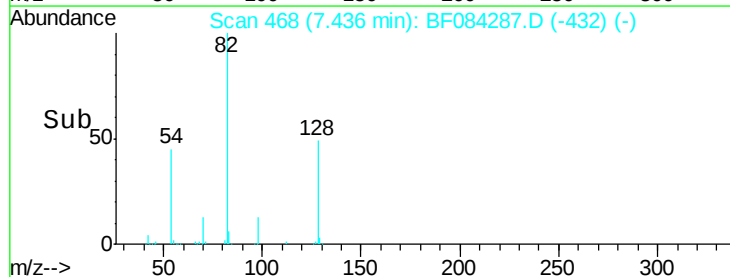
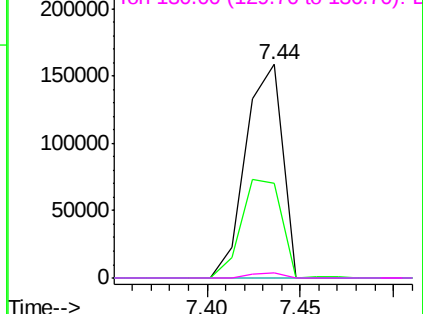


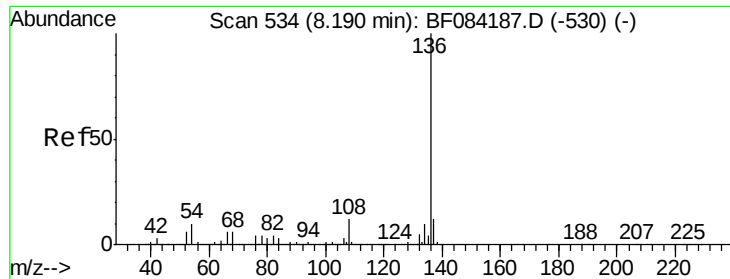
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 531

Delta R.T. -0.03 min

Lab File: BF084287.D

Acq: 6 Jan 2016 14:00

Instrument :

BNA\_F

ClientSampleId :

PB87652BL

Tgt Ion:136 Resp: 1087123

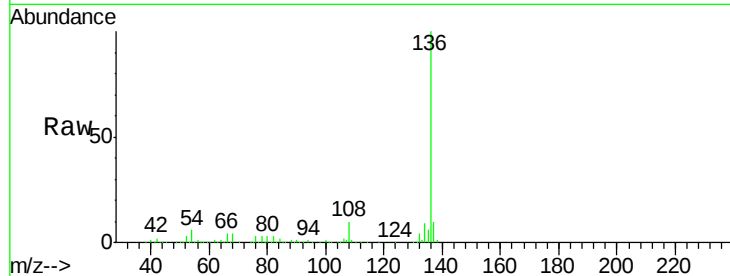
Ion Ratio Lower Upper

136 100

137 10.5 8.7 13.1

54 6.4 5.8 8.8

68 4.1 4.2 6.2#

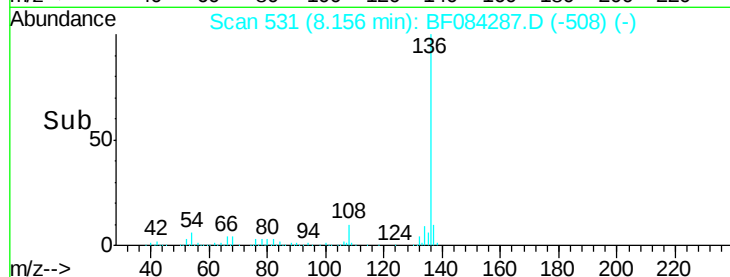


Abundance Ion 136.00 (135.70 to 136.70): E

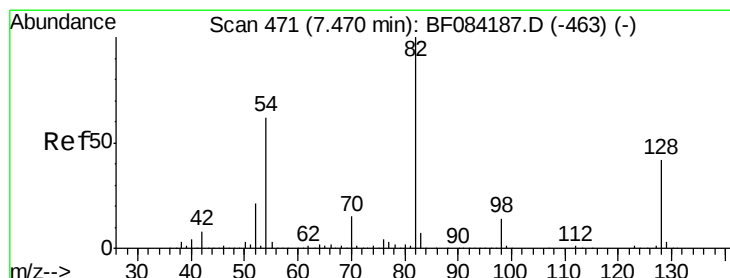
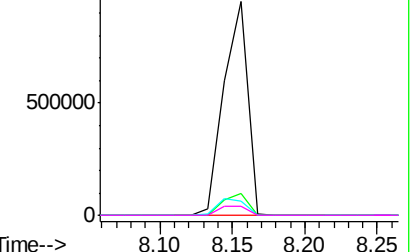
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 80.40 ng

RT: 7.44 min Scan# 468

Delta R.T. -0.03 min

Lab File: BF084287.D

Acq: 6 Jan 2016 14:00

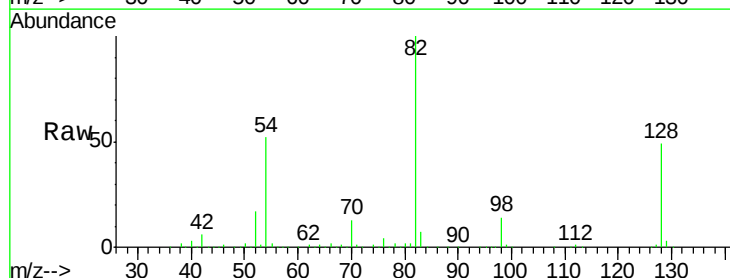
Tgt Ion: 82 Resp: 1570393

Ion Ratio Lower Upper

82 100

128 48.6 34.6 51.8

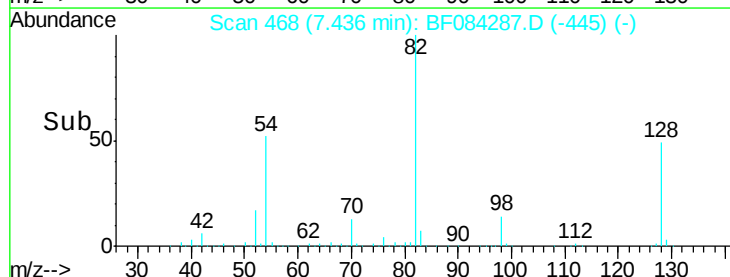
54 51.9 38.4 57.6



Abundance Ion 82.00 (81.70 to 82.70): BF0

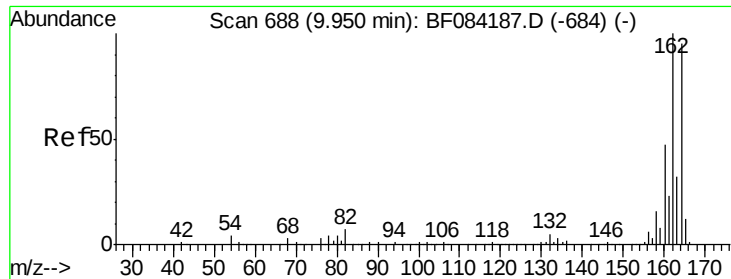
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.90 min Scan# 684

Delta R.T. -0.05 min

Lab File: BF084287.D

Acq: 6 Jan 2016 14:00

Instrument :

BNA\_F

ClientSampleId :

PB87652BL

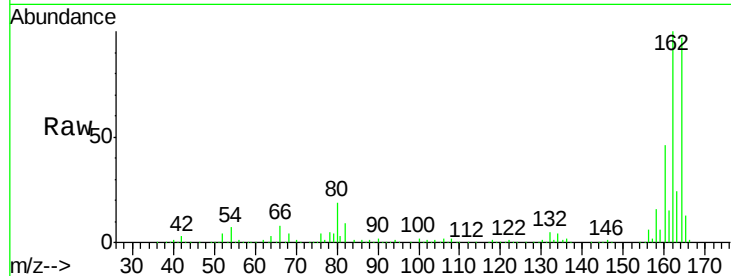
Tgt Ion:164 Resp: 525555

Ion Ratio Lower Upper

164 100

162 103.1 85.1 127.7

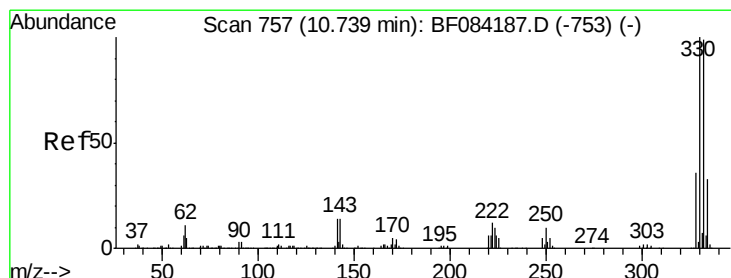
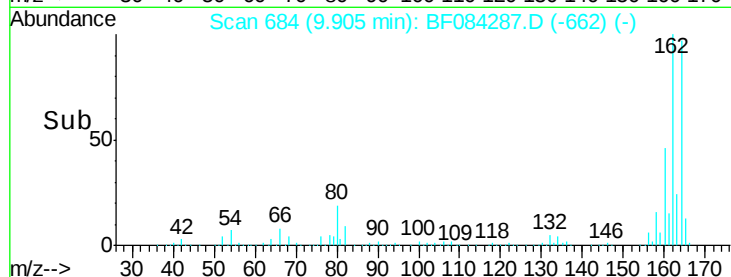
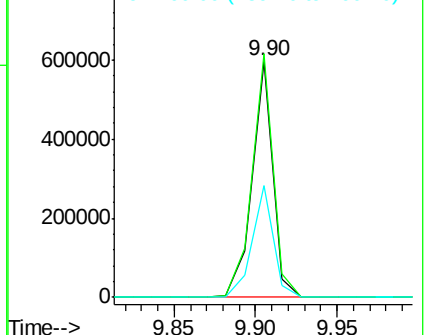
160 47.1 37.5 56.3



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: 107.07 ng

RT: 10.69 min Scan# 753

Delta R.T. -0.05 min

Lab File: BF084287.D

Acq: 6 Jan 2016 14:00

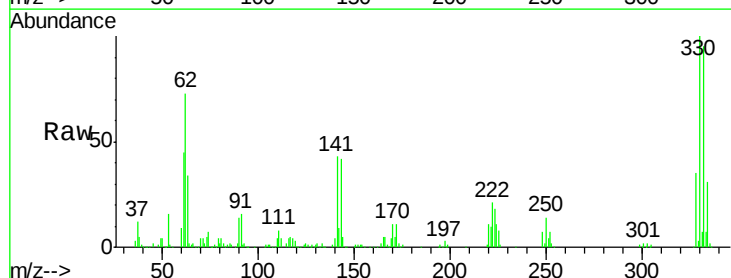
Tgt Ion:330 Resp: 568099

Ion Ratio Lower Upper

330 100

332 96.2 76.6 114.8

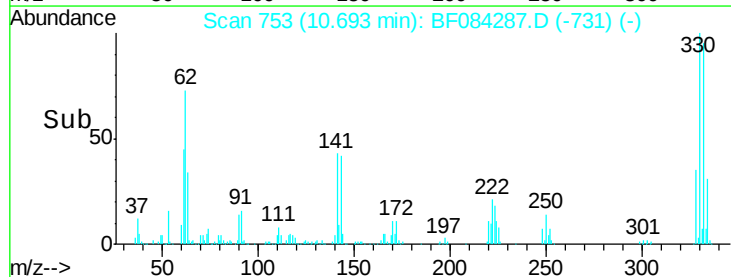
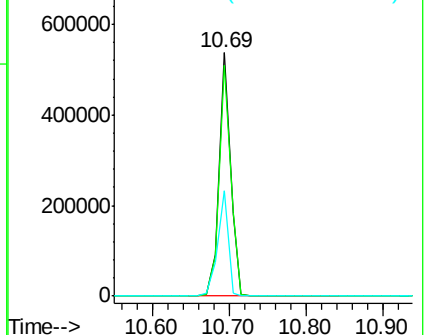
141 39.2 27.8 41.6

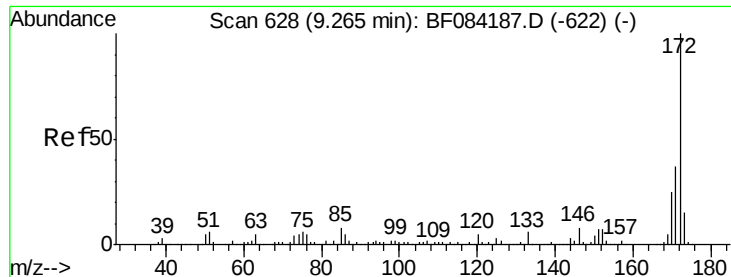


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

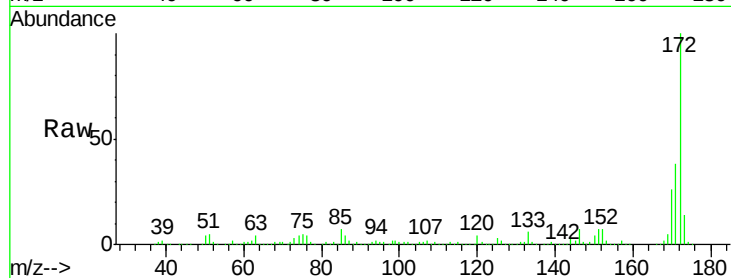




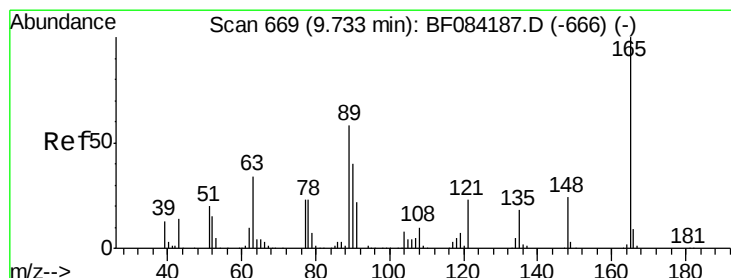
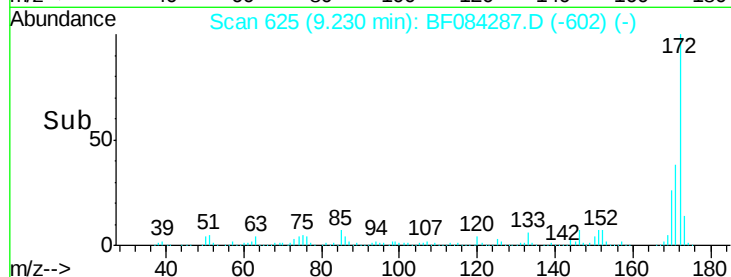
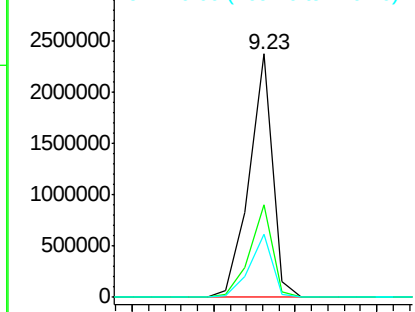
#44  
 2-Fluorobiphenyl  
 Concen: 78.38 ng  
 RT: 9.23 min Scan# 625  
 Delta R.T. -0.03 min  
 Lab File: BF084287.D  
 Acq: 6 Jan 2016 14:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB87652BL

Tgt Ion:172 Resp: 2356265  
 Ion Ratio Lower Upper  
 172 100  
 171 38.1 28.9 43.3  
 170 26.1 18.6 27.8

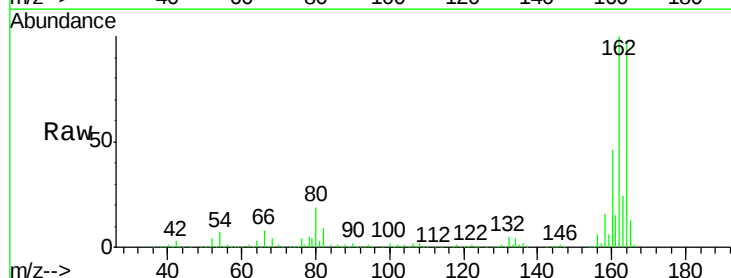


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

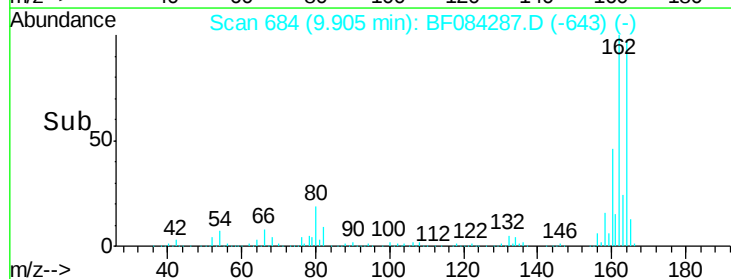
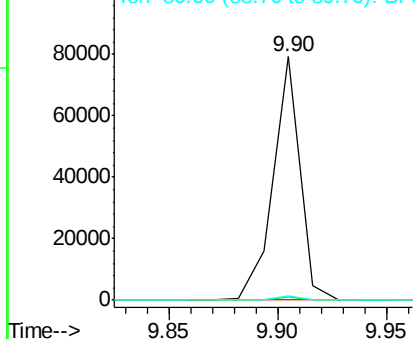


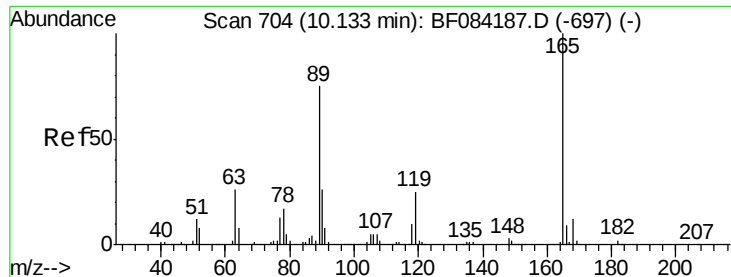
#50  
 2,6-Dinitrotoluene  
 Concen: 8.37 ng  
 RT: 9.90 min Scan# 684  
 Delta R.T. 0.17 min  
 Lab File: BF084287.D  
 Acq: 6 Jan 2016 14:00

Tgt Ion:165 Resp: 69001  
 Ion Ratio Lower Upper  
 165 100  
 63 1.4 28.8 43.2#  
 89 1.6 35.1 52.7#



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

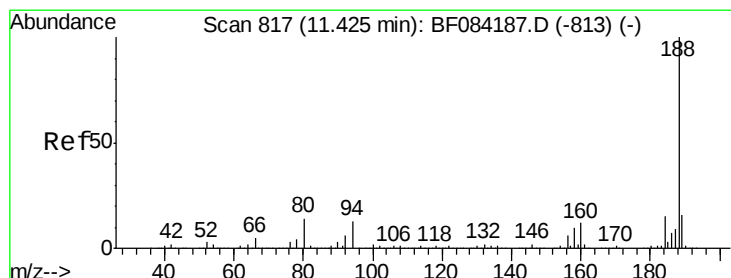
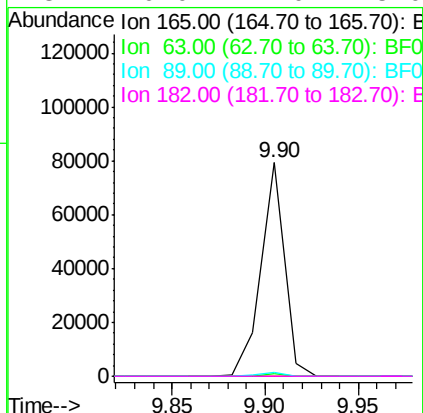
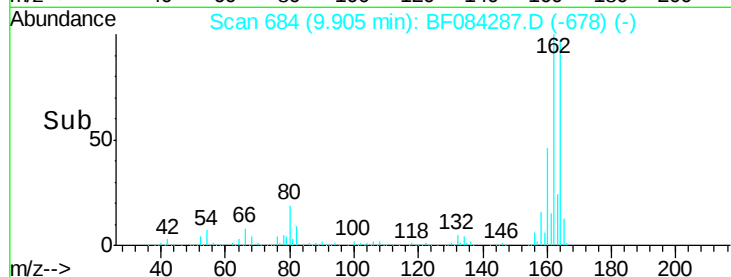
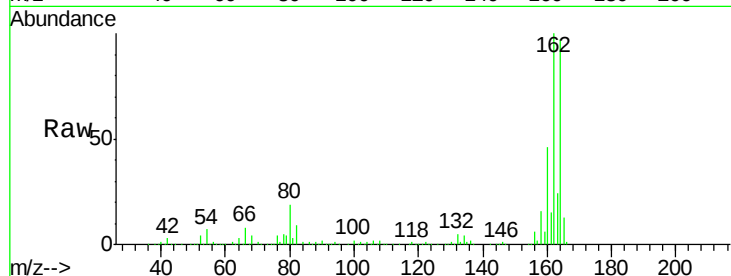




#56  
2,4-Dinitrotoluene  
Concen: 6.62 ng  
RT: 9.90 min Scan# 684  
Delta R.T. -0.23 min  
Lab File: BF084287.D  
Acq: 6 Jan 2016 14:00

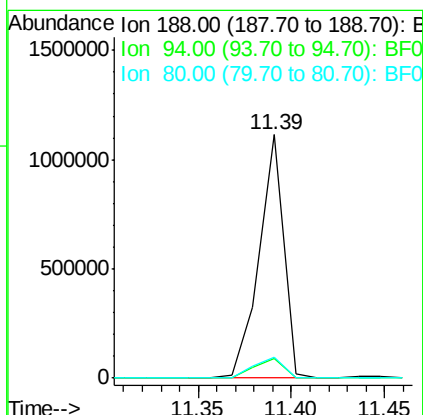
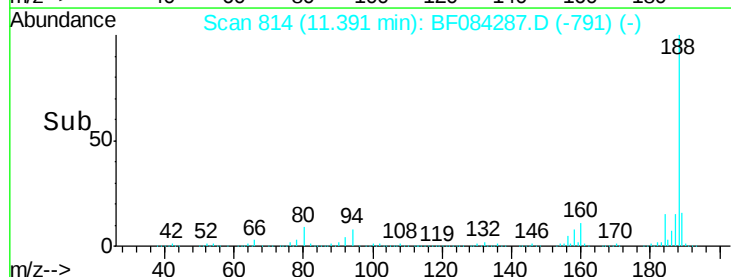
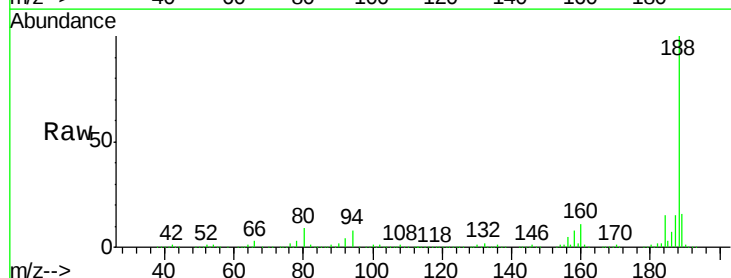
Instrument :  
BNA\_F  
ClientSampleId :  
PB87652BL

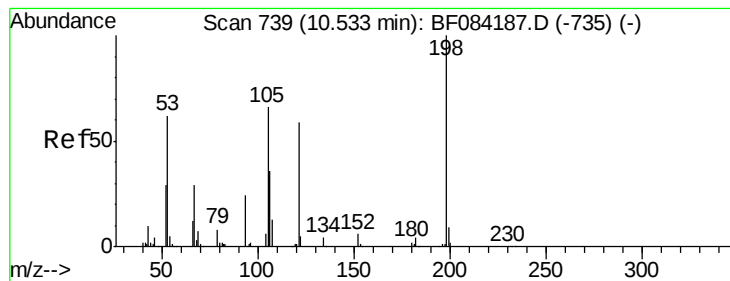
Tgt Ion:165 Resp: 69003  
Ion Ratio Lower Upper  
165 100  
63 1.4 36.7 55.1#  
89 1.6 61.9 92.9#  
182 0.0 2.0 3.0#



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.39 min Scan# 814  
Delta R.T. -0.03 min  
Lab File: BF084287.D  
Acq: 6 Jan 2016 14:00

Tgt Ion:188 Resp: 1012916  
Ion Ratio Lower Upper  
188 100  
94 8.0 9.0 13.4#  
80 8.7 9.6 14.4#





#64

4,6-Dinitro-2-methylphenol

Concen: 6.59 ng

RT: 10.69 min Scan# 753

Delta R.T. 0.16 min

Lab File: BF084287.D

Acq: 6 Jan 2016 14:00

Instrument :

BNA\_F

ClientSampleId :

PB87652BL

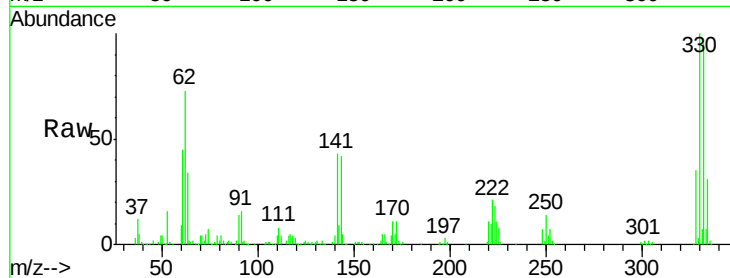
Tgt Ion:198 Resp: 1384

Ion Ratio Lower Upper

198 100

51 177.4 18.9 58.9#

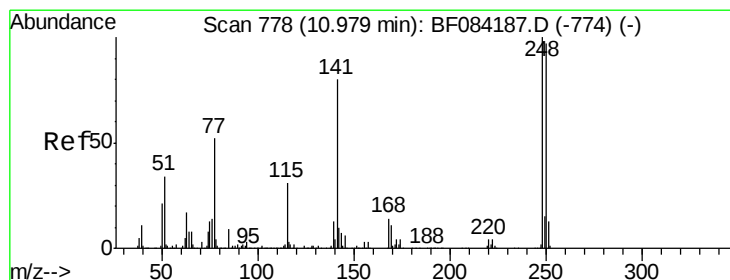
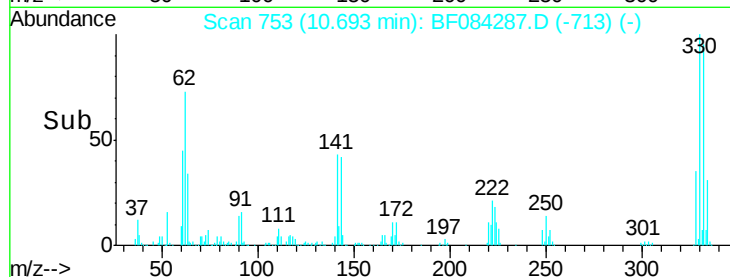
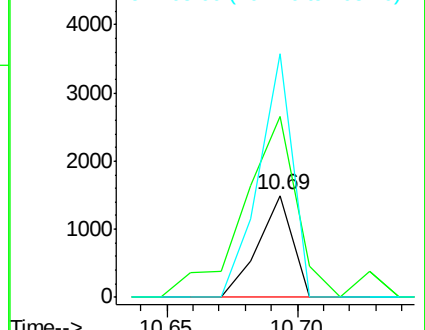
105 239.4 26.4 66.4#



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: 3.40 ng

RT: 10.69 min Scan# 753

Delta R.T. -0.29 min

Lab File: BF084287.D

Acq: 6 Jan 2016 14:00

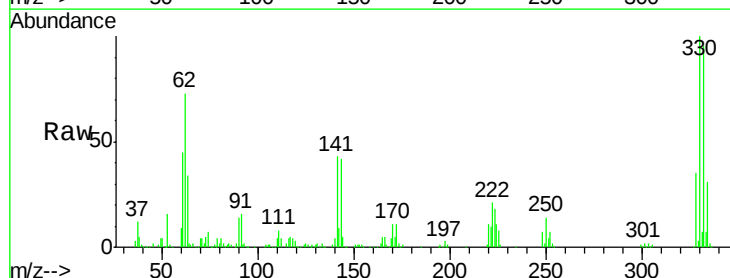
Tgt Ion:248 Resp: 37099

Ion Ratio Lower Upper

248 100

250 190.7 78.4 117.6#

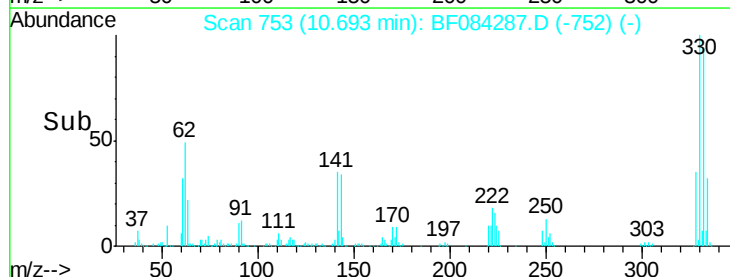
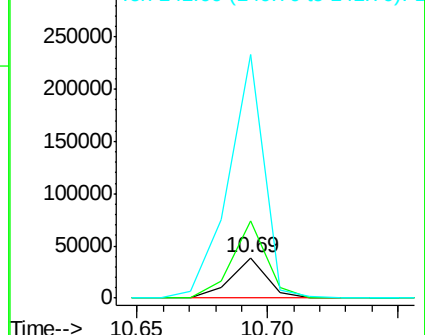
141 598.2 44.0 66.0#

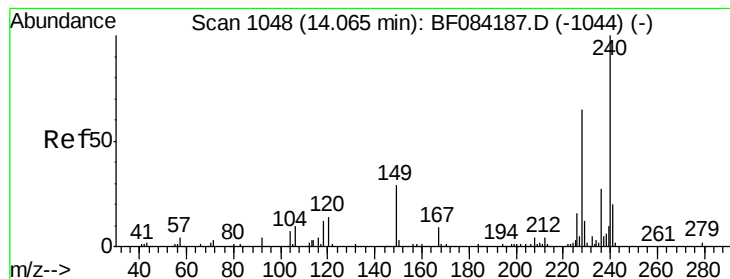


Abundance Ion 248.00 (247.70 to 248.70): E

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: 14.02 min Scan# 1044

Delta R.T. -0.05 min

Lab File: BF084287.D

Acq: 6 Jan 2016 14:00

Instrument :

BNA\_F

ClientSampleId :

PB87652BL

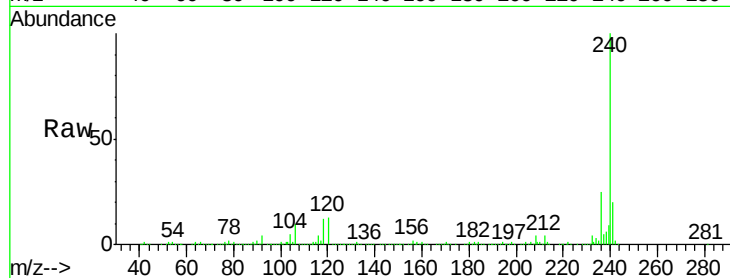
Tgt Ion:240 Resp: 804693

Ion Ratio Lower Upper

240 100

120 13.4 9.5 14.3

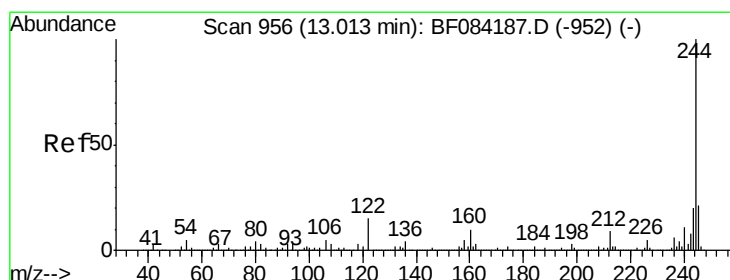
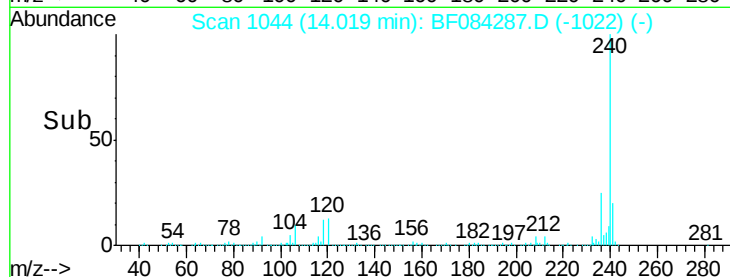
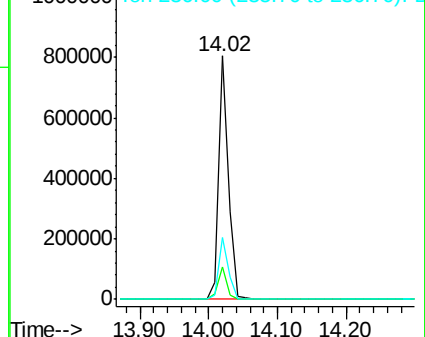
236 25.5 20.6 31.0



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: 65.73 ng

RT: 12.98 min Scan# 953

Delta R.T. -0.03 min

Lab File: BF084287.D

Acq: 6 Jan 2016 14:00

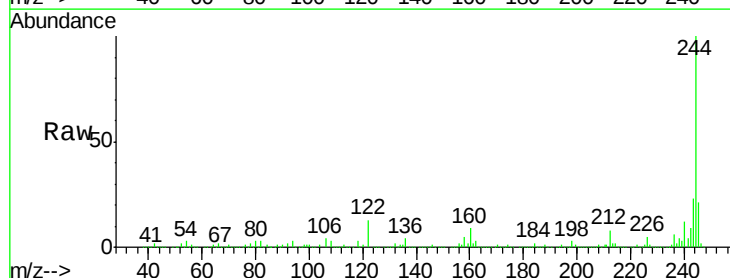
Tgt Ion:244 Resp: 2369430

Ion Ratio Lower Upper

244 100

212 8.1 5.7 8.5

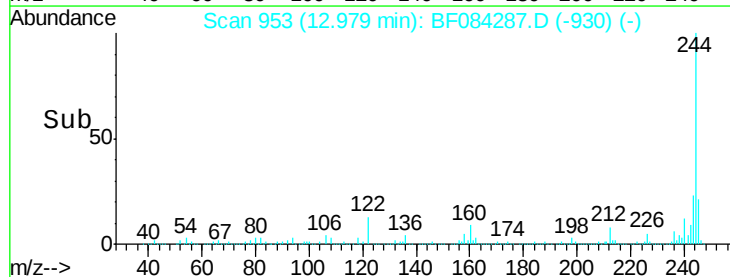
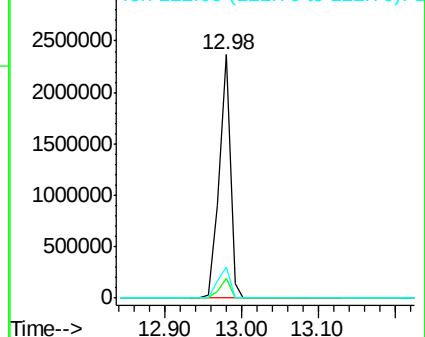
122 13.0 7.4 11.0#

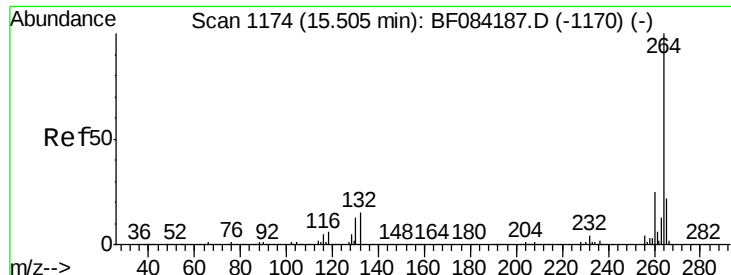


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

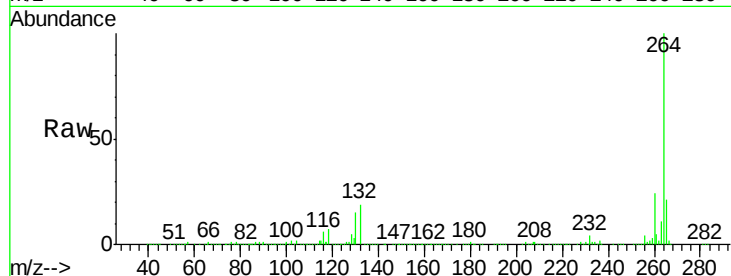




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.45 min Scan# 1169  
Delta R.T. -0.06 min  
Lab File: BF084287.D  
Acq: 6 Jan 2016 14:00

Instrument :  
BNA\_F  
ClientSampleId :  
PB87652BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.4  | 29.2  |
| 265     | 20.8  | 17.8  | 26.6  |



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

