

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032415\  
 Data File : BF077932.D  
 Acq On : 25 Mar 2015 3:09  
 Operator : TP/IZ  
 Sample : G1613-03 5X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-2-1

Quant Time: Mar 25 03:48:18 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF031115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 25 04:36:48 2015  
 Response via : Initial Calibration

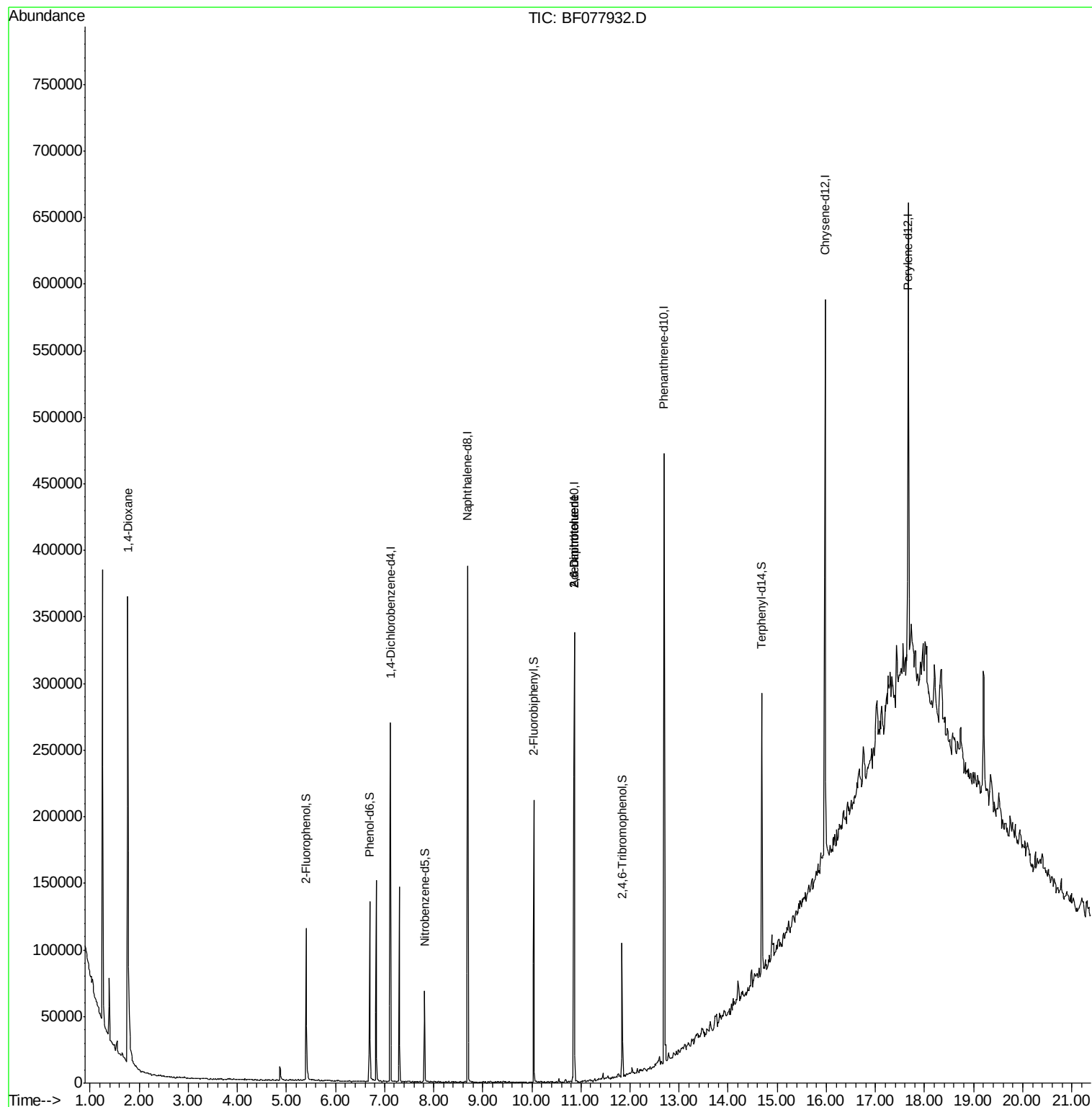
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.12  | 152  | 43886    | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.69  | 136  | 179360   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.86 | 164  | 88601    | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10        | 12.69 | 188  | 174456   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12            | 15.97 | 240  | 184267   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12            | 17.67 | 264  | 177912   | 20.00     | ng    | -0.08    |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.40  | 112  | 41787    | 16.62     | ng    | 0.00     |
| 7) Phenol-d6                | 6.69  | 99   | 56400    | 18.16     | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.81  | 82   | 30674    | 11.21     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.84 | 330  | 12520    | 14.77     | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 10.04 | 172  | 80664    | 13.38     | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.68 | 244  | 93746    | 12.43     | ng    | -0.01    |
| Target Compounds            |       |      |          |           |       |          |
| 2) 1,4-Dioxane              | 1.77  | 88   | 14692    | 12.87     | ng    | # 100    |
| 50) 2,6-Dinitrotoluene      | 10.86 | 165  | 11015    | 8.09      | ng    | # 24     |
| 56) 2,4-Dinitrotoluene      | 10.86 | 165  | 11015    | 6.20      | ng    | # 11     |
| 76) Benzidine               | 14.36 | 184  | 538      | Below Cal |       | # 1      |

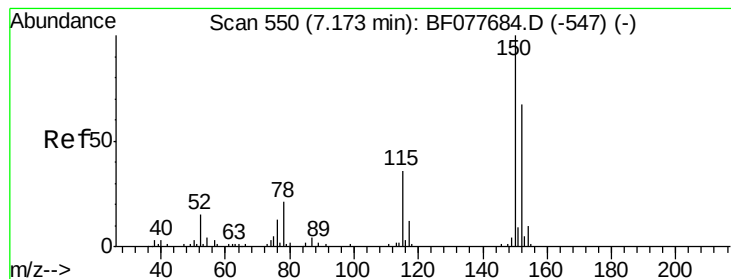
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 25 04:36:48 2015  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.12 min Scan# 545

Delta R.T. -0.00 min

Lab File: BF077932.D

Acq: 25 Mar 2015 3:09

Instrument :

BNA\_F

ClientSampleId :

SB-2-1

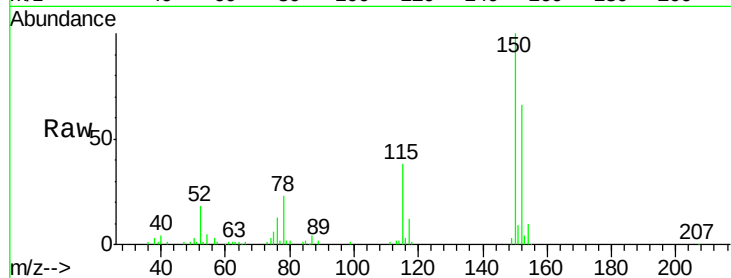
Tgt Ion:152 Resp: 43886

Ion Ratio Lower Upper

152 100

150 150.8 119.5 179.3

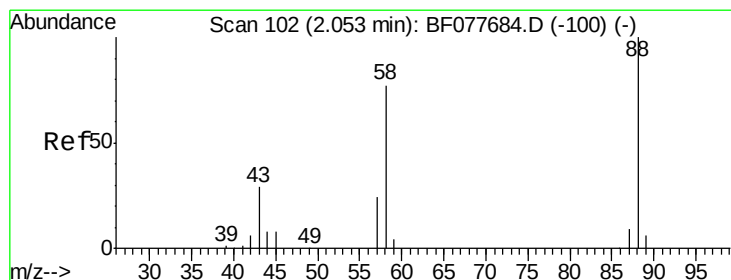
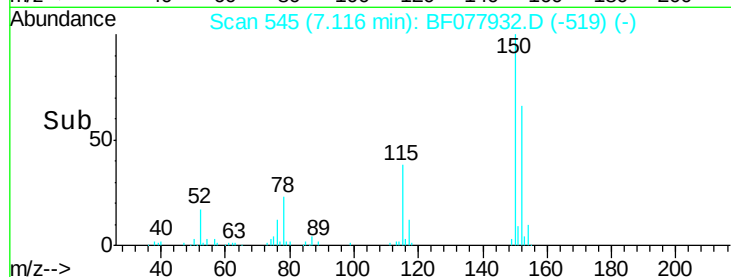
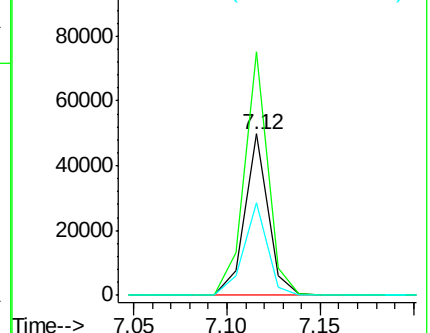
115 57.1 43.0 64.4



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



#2

1,4-Dioxane

Concen: 12.87 ng

RT: 1.77 min Scan# 77

Delta R.T. -0.22 min

Lab File: BF077932.D

Acq: 25 Mar 2015 3:09

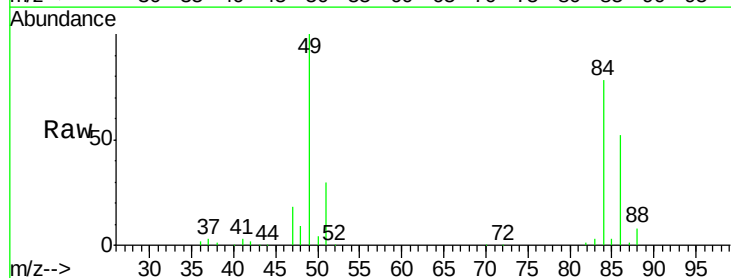
Tgt Ion: 88 Resp: 14692

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

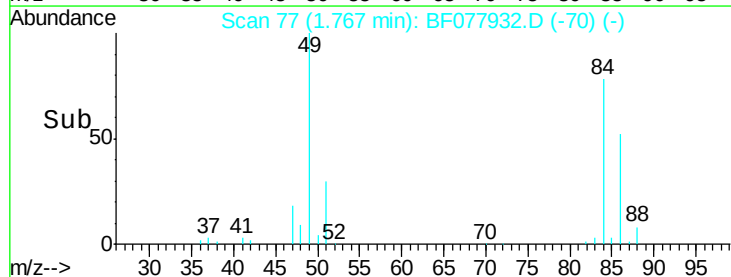
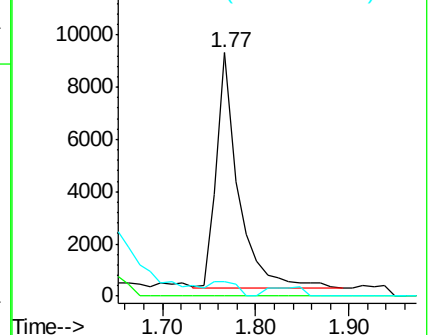
43 7.4 0.0 0.0#

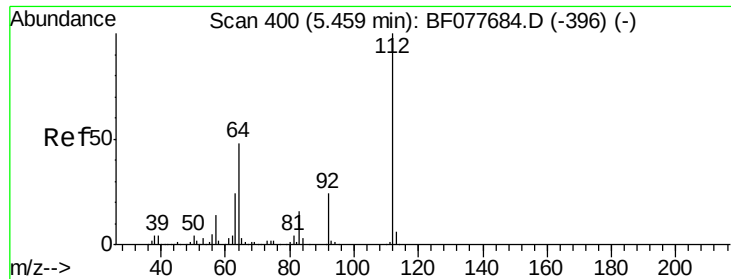


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 16.62 ng

RT: 5.40 min Scan# 395

Delta R.T. -0.00 min

Lab File: BF077932.D

Acq: 25 Mar 2015 3:09

Instrument :

BNA\_F

ClientSampled :

SB-2-1

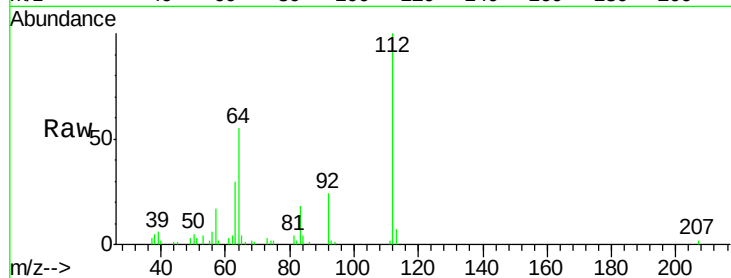
Tgt Ion: 112 Resp: 41787

Ion Ratio Lower Upper

112 100

64 54.6 38.6 57.8

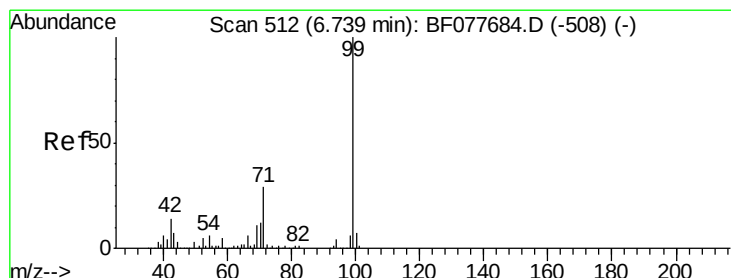
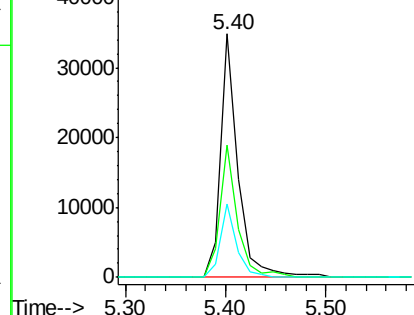
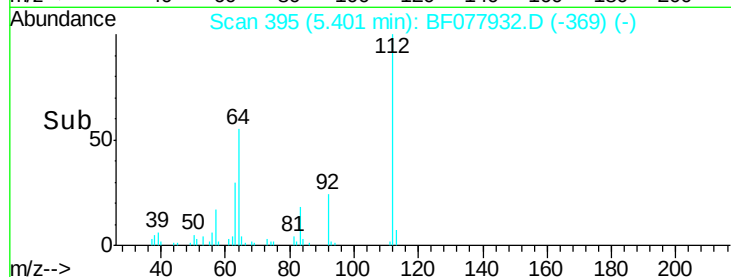
63 30.1 19.3 28.9#



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#7

Phenol-d6

Concen: 18.16 ng

RT: 6.69 min Scan# 508

Delta R.T. -0.00 min

Lab File: BF077932.D

Acq: 25 Mar 2015 3:09

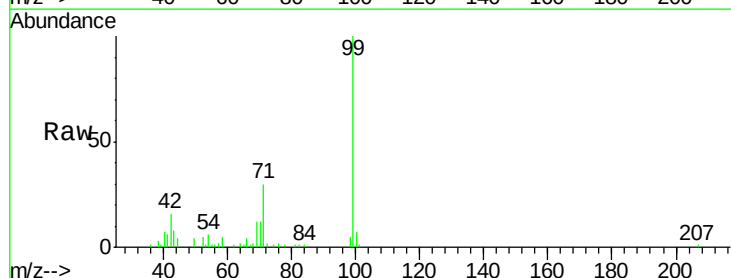
Tgt Ion: 99 Resp: 56400

Ion Ratio Lower Upper

99 100

42 15.9 11.0 16.4

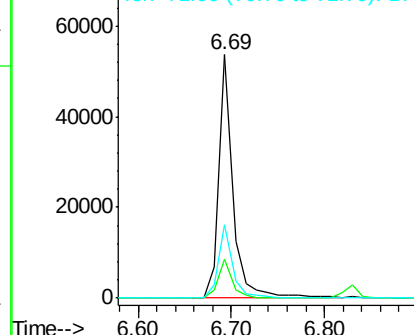
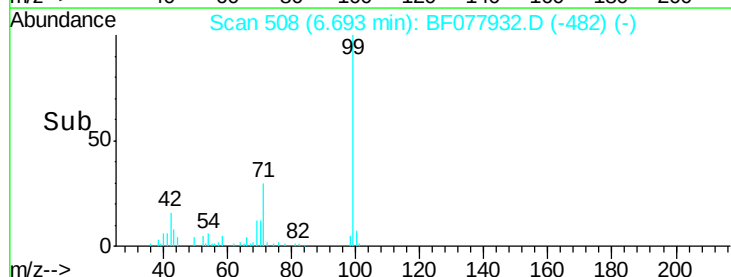
71 30.0 23.4 35.2

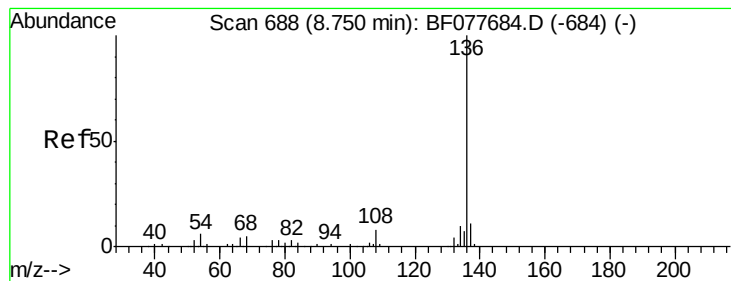


Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 8.69 min Scan# 683

Delta R.T. -0.00 min

Lab File: BF077932.D

Acq: 25 Mar 2015 3:09

Instrument :

BNA\_F

ClientSampleId :

SB-2-1

Tgt Ion:136 Resp: 179360

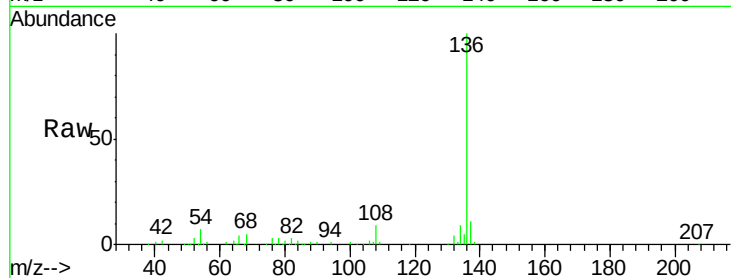
Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

54 6.8 4.6 6.8

68 5.3 3.7 5.5

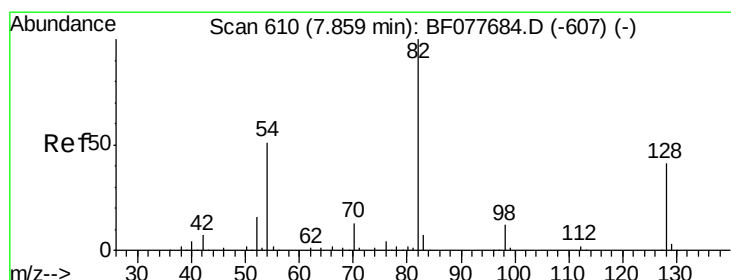
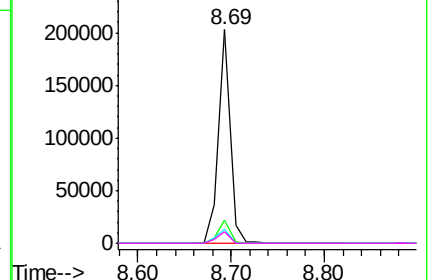
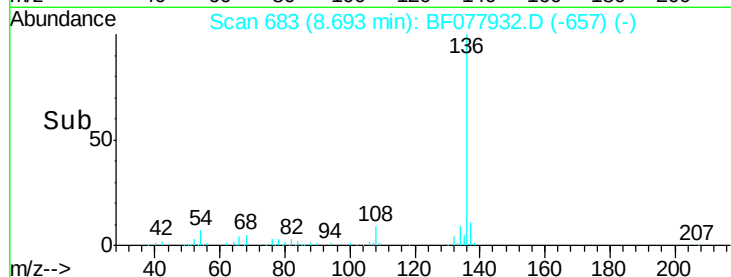


Abundance Ion 136.00 (135.70 to 136.70): E

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: 11.21 ng

RT: 7.81 min Scan# 606

Delta R.T. -0.00 min

Lab File: BF077932.D

Acq: 25 Mar 2015 3:09

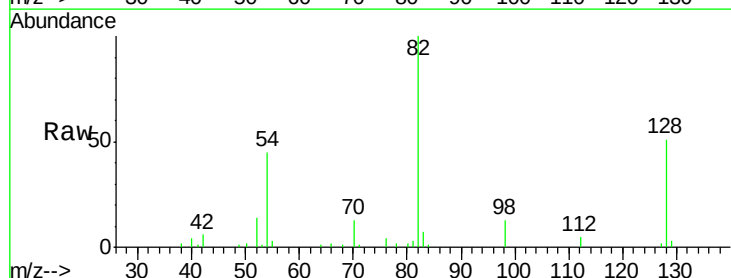
Tgt Ion: 82 Resp: 30674

Ion Ratio Lower Upper

82 100

128 50.7 32.8 49.2#

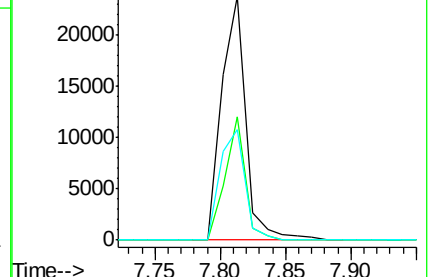
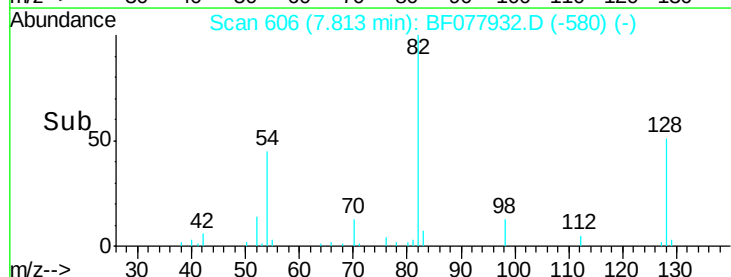
54 45.3 40.6 60.8

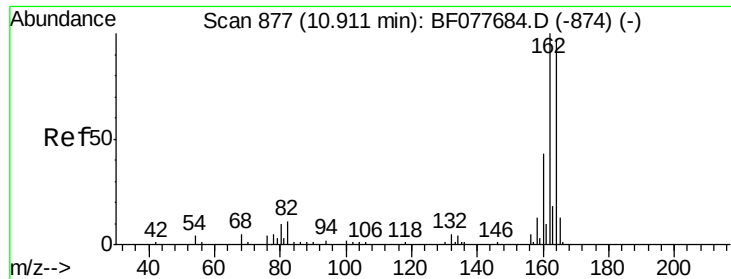


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 10.86 min Scan# 873

Delta R.T. -0.00 min

Lab File: BF077932.D

Acq: 25 Mar 2015 3:09

Instrument :

BNA\_F

ClientSampleId :

SB-2-1

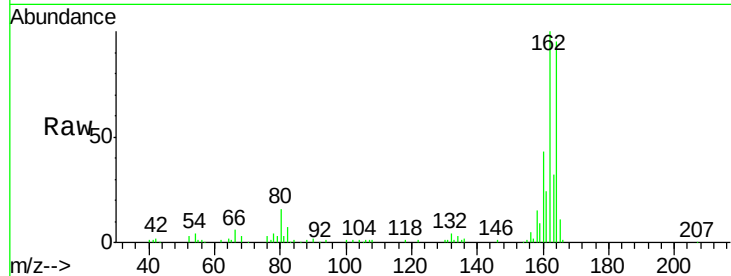
Tgt Ion:164 Resp: 88601

Ion Ratio Lower Upper

164 100

162 105.7 82.4 123.6

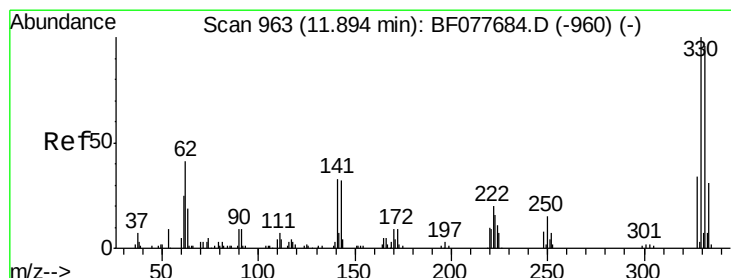
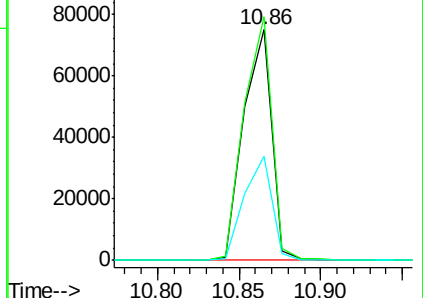
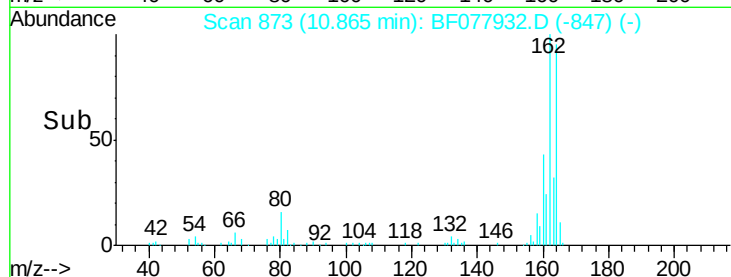
160 45.3 35.8 53.6



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: 14.77 ng

RT: 11.84 min Scan# 958

Delta R.T. -0.00 min

Lab File: BF077932.D

Acq: 25 Mar 2015 3:09

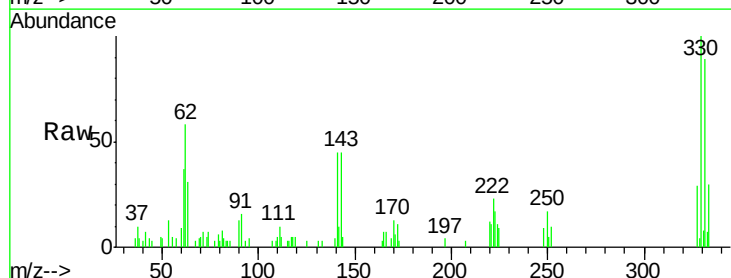
Tgt Ion:330 Resp: 12520

Ion Ratio Lower Upper

330 100

332 91.3 0.0 0.0#

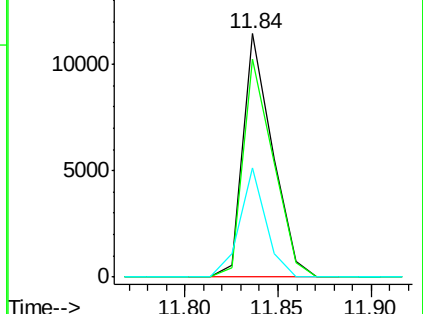
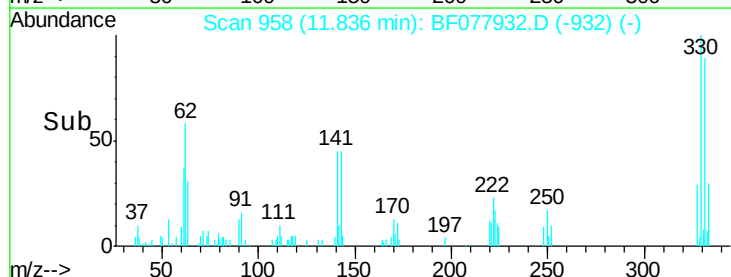
141 40.0 0.0 0.0#

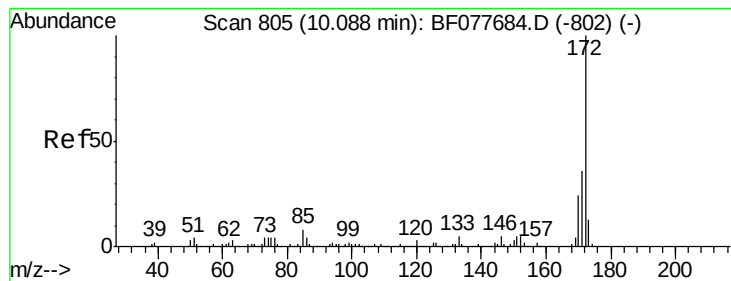


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 13.38 ng

RT: 10.04 min Scan# 801

Delta R.T. -0.00 min

Lab File: BF077932.D

Acq: 25 Mar 2015 3:09

Instrument :

BNA\_F

ClientSampled :

SB-2-1

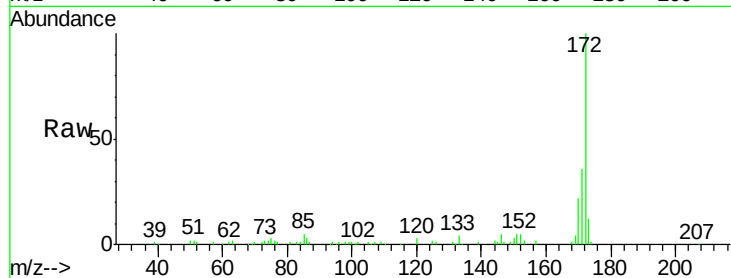
Tgt Ion:172 Resp: 80664

Ion Ratio Lower Upper

172 100

171 35.5 28.5 42.7

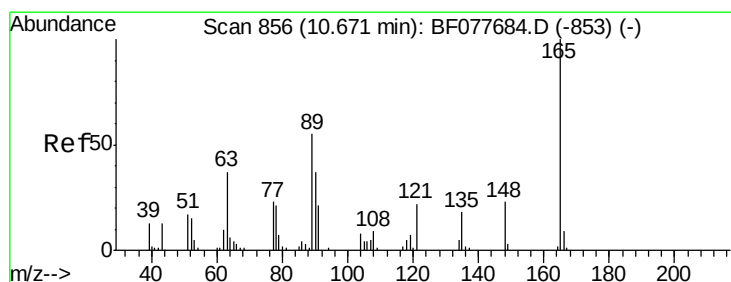
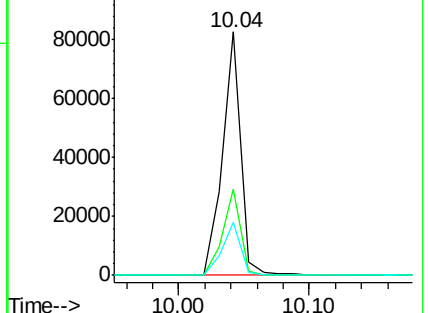
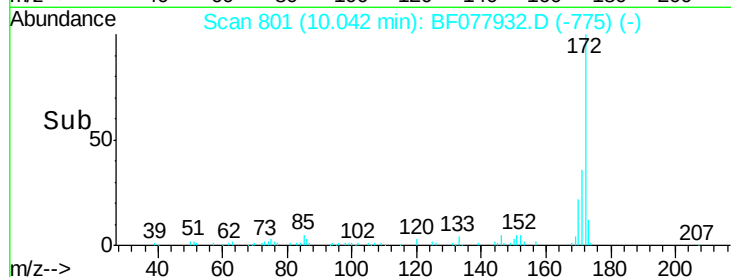
170 21.9 18.8 28.2



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: 8.09 ng

RT: 10.86 min Scan# 873

Delta R.T. 0.24 min

Lab File: BF077932.D

Acq: 25 Mar 2015 3:09

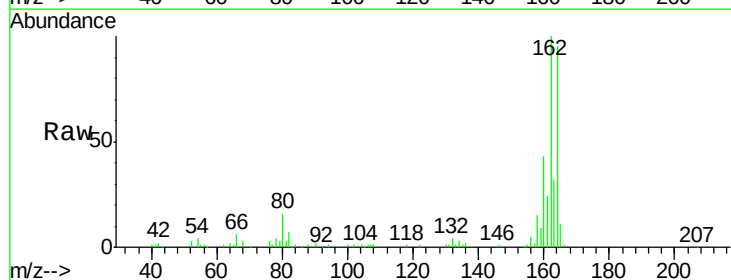
Tgt Ion:165 Resp: 11015

Ion Ratio Lower Upper

165 100

63 0.0 44.1 66.1#

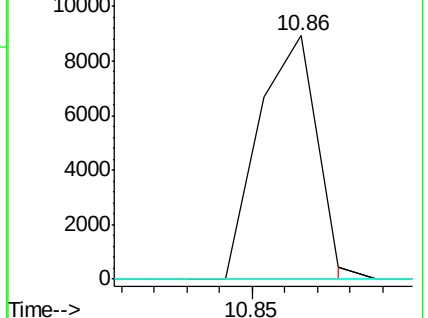
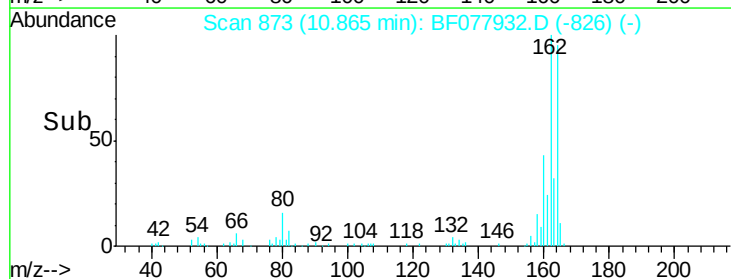
89 0.0 44.3 66.5#

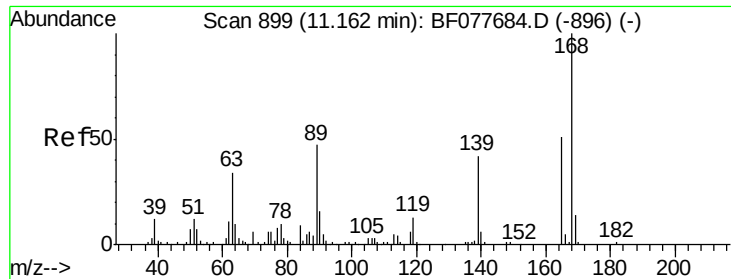


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

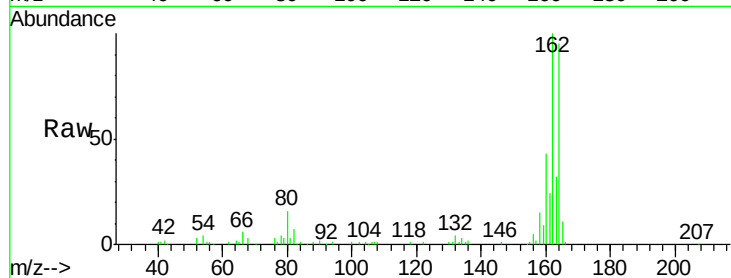




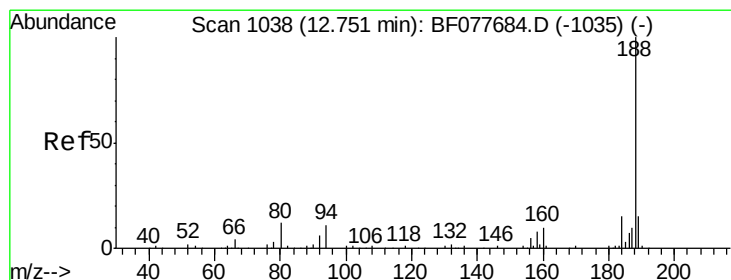
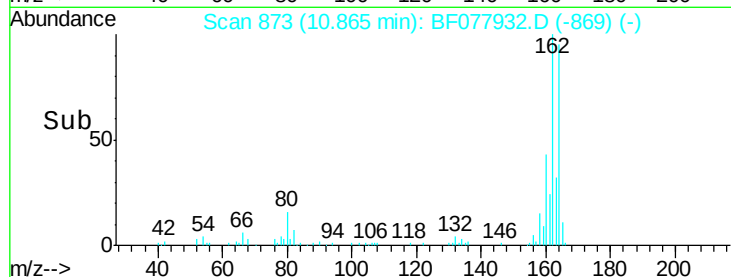
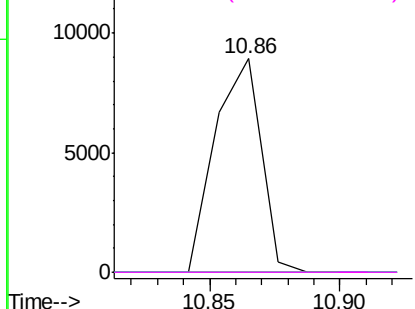
#56  
 2,4-Dinitrotoluene  
 Concen: 6.20 ng  
 RT: 10.86 min Scan# 873  
 Delta R.T. -0.25 min  
 Lab File: BF077932.D  
 Acq: 25 Mar 2015 3:09

Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-2-1

Tgt Ion:165 Resp: 11015  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.4 78.6#  
 89 0.0 72.4 108.6#  
 182 0.0 2.0 3.0#

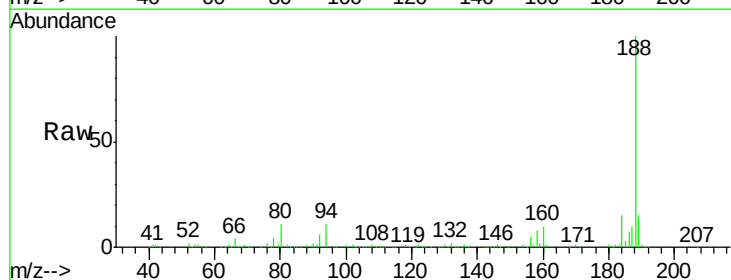


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

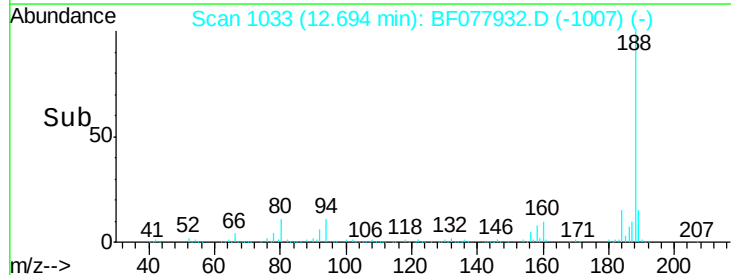
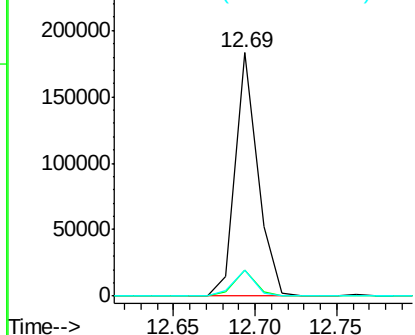


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 12.69 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: BF077932.D  
 Acq: 25 Mar 2015 3:09

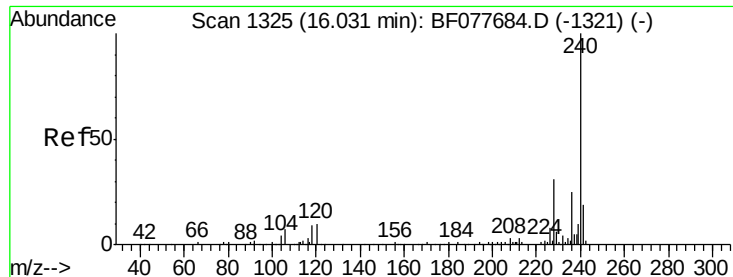
Tgt Ion:188 Resp: 174456  
 Ion Ratio Lower Upper  
 188 100  
 94 10.8 8.7 13.1  
 80 10.6 9.3 13.9



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: 15.97 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF077932.D

Acq: 25 Mar 2015 3:09

Instrument :

BNA\_F

ClientSampleId :

SB-2-1

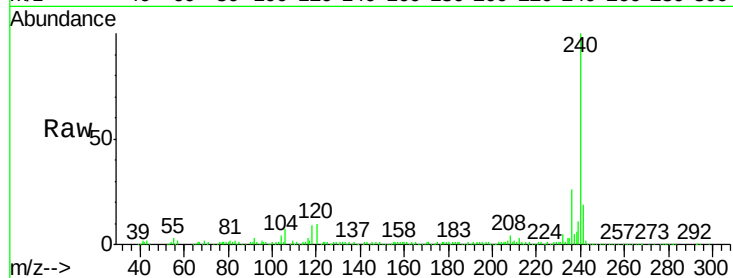
Tgt Ion:240 Resp: 184267

Ion Ratio Lower Upper

240 100

120 9.9 8.2 12.2

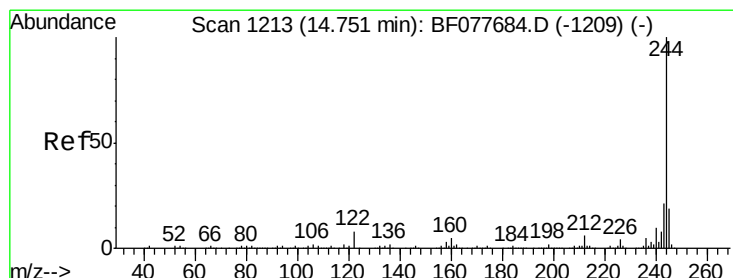
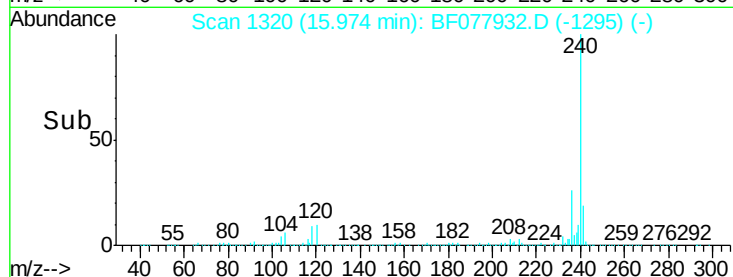
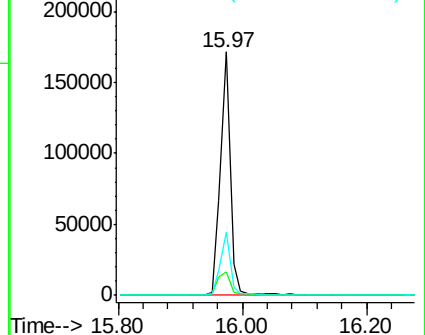
236 25.9 20.0 30.0



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: 12.43 ng

RT: 14.68 min Scan# 1207

Delta R.T. -0.01 min

Lab File: BF077932.D

Acq: 25 Mar 2015 3:09

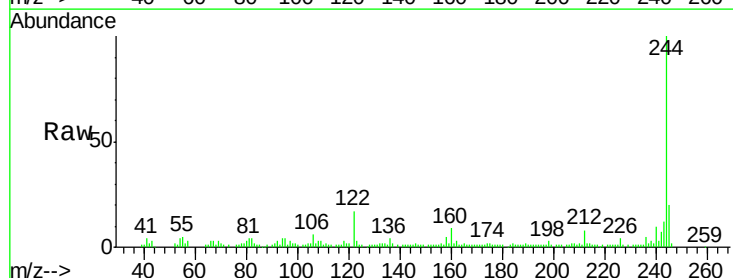
Tgt Ion:244 Resp: 93746

Ion Ratio Lower Upper

244 100

212 7.7 4.9 7.3#

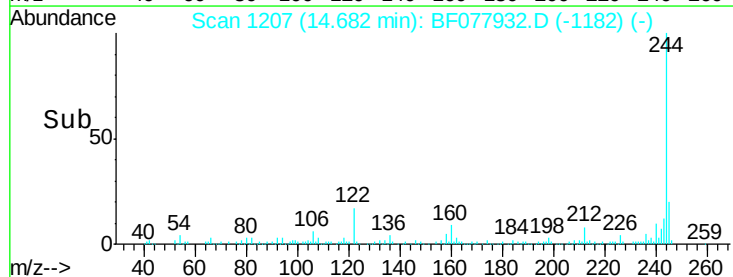
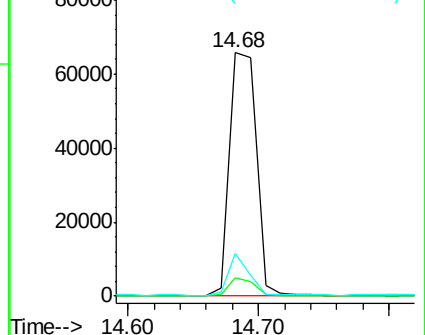
122 17.3 6.2 9.4#

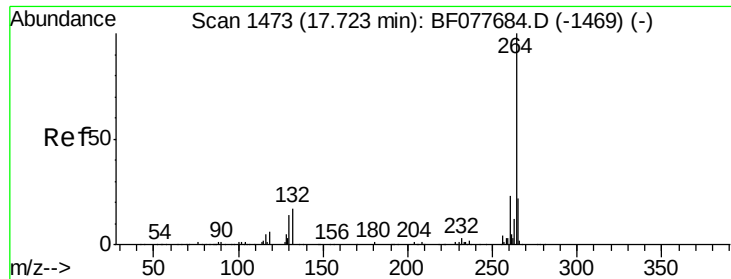


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

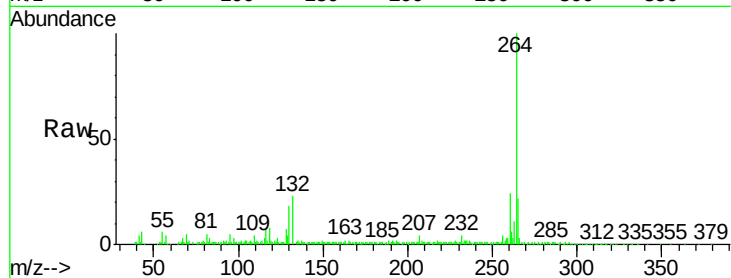




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 17.67 min Scan# 1468  
Delta R.T. -0.08 min  
Lab File: BF077932.D  
Acq: 25 Mar 2015 3:09

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2-1

Tgt Ion: 264 Resp: 177912  
Ion Ratio Lower Upper  
264 100  
260 23.8 18.6 27.8  
265 22.2 17.3 25.9



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

