

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121915\  
 Data File : BF083936.D  
 Acq On : 19 Dec 2015 2:25  
 Operator : UM/SJ  
 Sample : G4840-01  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-04

Quant Time: Dec 19 04:21:07 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 18 14:23:22 2015  
 Response via : Initial Calibration

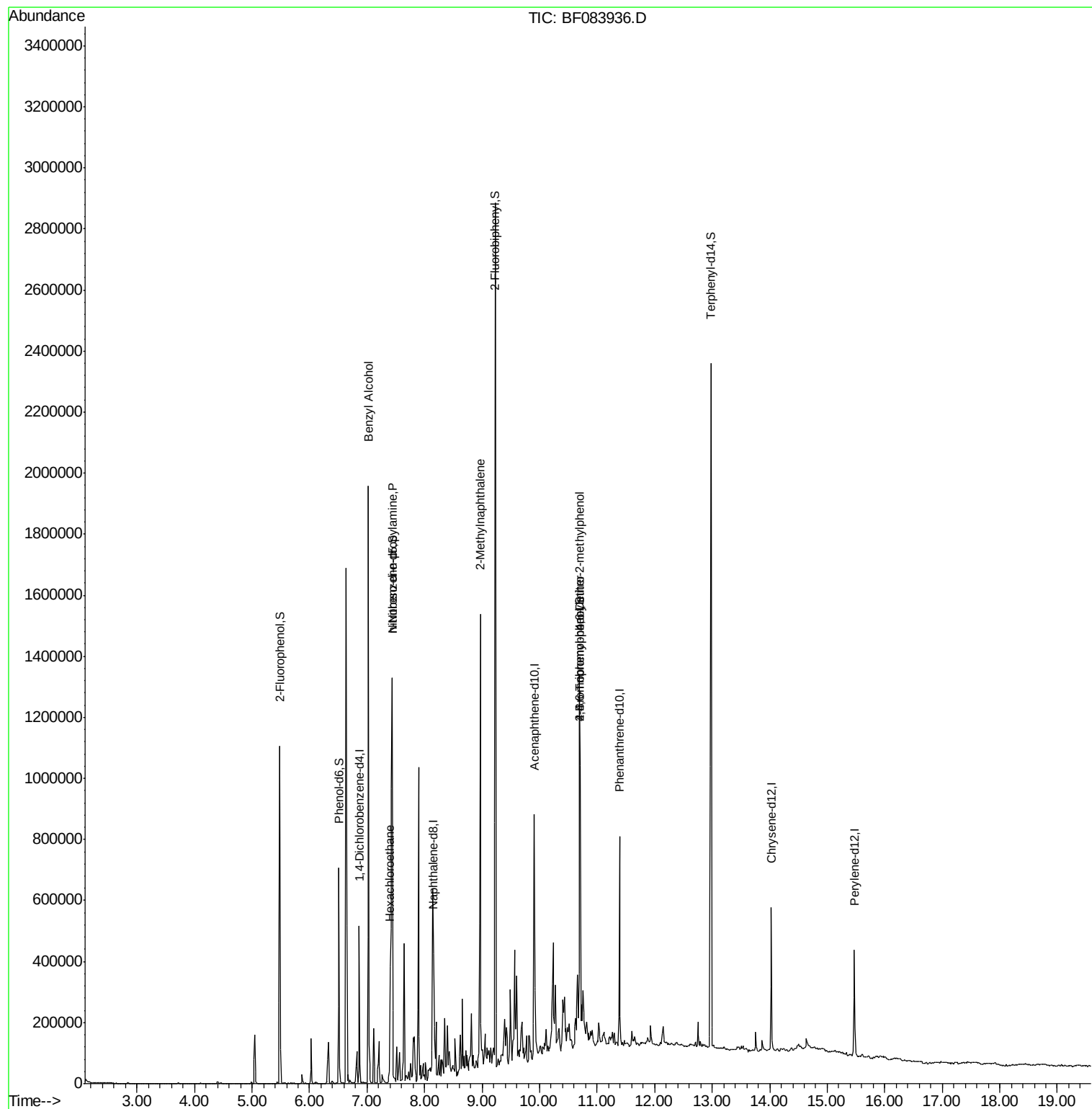
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 72482    | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.16  | 136  | 288222   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.90  | 164  | 163517   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.39 | 188  | 233534   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 14.03 | 240  | 176881   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.47 | 264  | 159437   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.48  | 112  | 305099   | 65.87     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.51  | 99   | 265073   | 46.76     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.44  | 82   | 513307   | 101.64    | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.70 | 330  | 214146   | 118.88    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.23  | 172  | 873302   | 73.39     | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.98 | 244  | 729003   | 97.26     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       | Qvalue   |
| 15) Benzyl Alcohol             | 7.02  | 79   | 9142     | 2.13      | ng    | # 39     |
| 18) Hexachloroethane           | 7.40  | 117  | 60619    | 27.30     | ng    | # 35     |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 70575    | 21.35     | ng    | # 73     |
| 31) Naphthalene                | 8.20  | 128  | 11823    | Below Cal |       | # 1      |
| 36) 4-Chloro-3-methylphenol    | 8.73  | 107  | 3541     | Below Cal |       | # 20     |
| 37) 2-Methylnaphthalene        | 8.97  | 142  | 387509   | 38.68     | ng    | 95       |
| 45) 1,1'-Biphenyl              | 9.23  | 154  | 2042     | Below Cal |       | # 1      |
| 46) 2-Chloronaphthalene        | 9.32  | 162  | 435      | Below Cal |       | # 1      |
| 57) Fluorene                   | 10.45 | 166  | 13477    | Below Cal |       | # 96     |
| 64) 4,6-Dinitro-2-methylphenol | 10.69 | 198  | 547      | 4.28      | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248  | 13453    | 4.71      | ng    | # 1      |
| 77) Pyrene                     | 12.83 | 202  | 737      | Below Cal |       | # 24     |

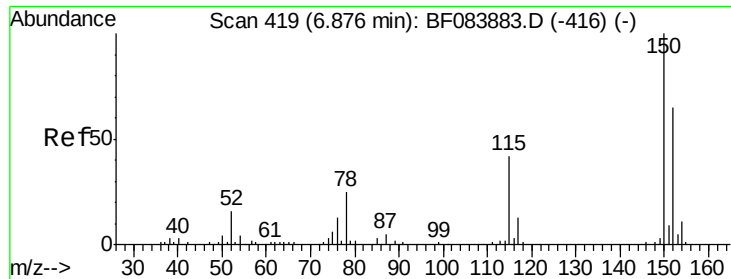
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121815.M  
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QLast Update : Fri Dec 18 14:23:22 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.86 min Scan# 418

Delta R.T. -0.01 min

Lab File: BF083936.D

Acq: 19 Dec 2015 2:25

Instrument :

BNA\_F

ClientSampleId :

W-04

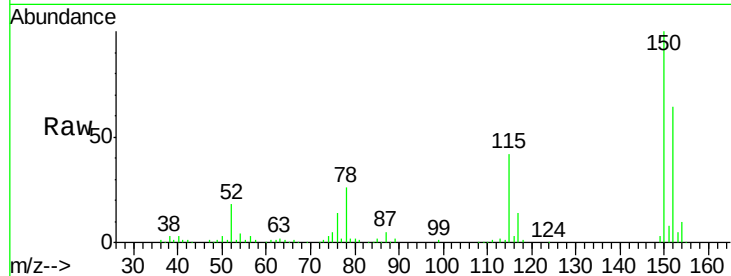
Tgt Ion:152 Resp: 72482

Ion Ratio Lower Upper

152 100

150 155.1 123.0 184.4

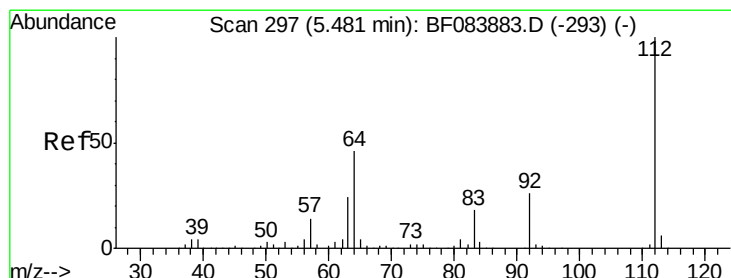
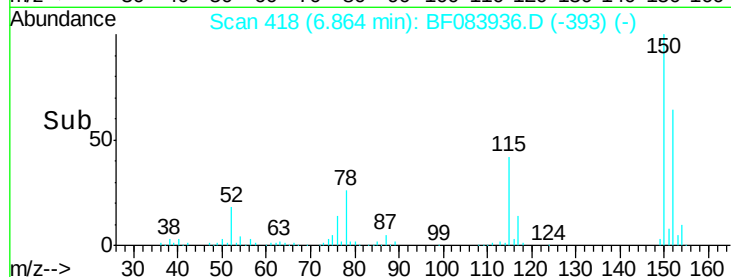
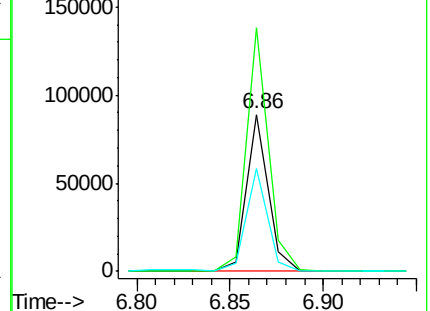
115 65.6 51.4 77.2



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: 65.87 ng

RT: 5.48 min Scan# 297

Delta R.T. -0.00 min

Lab File: BF083936.D

Acq: 19 Dec 2015 2:25

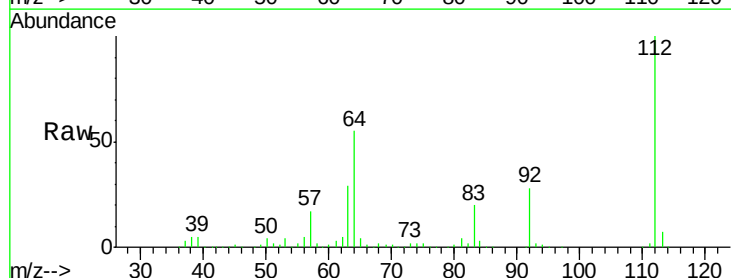
Tgt Ion:112 Resp: 305099

Ion Ratio Lower Upper

112 100

64 55.4 36.6 55.0#

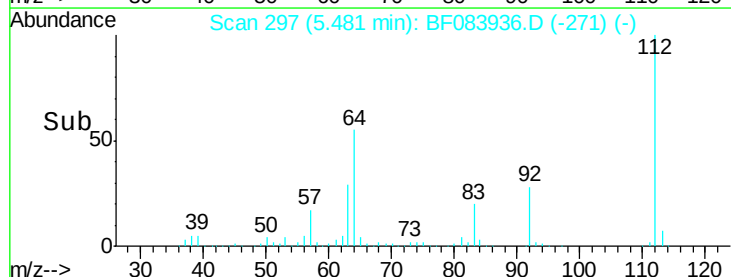
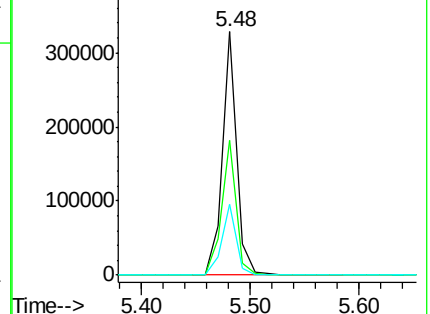
63 29.3 19.4 29.0#

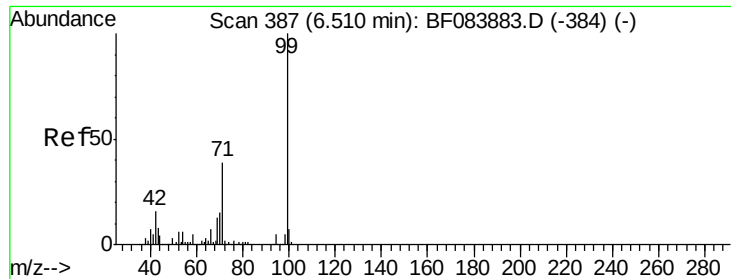


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 46.76 ng

RT: 6.51 min Scan# 387

Delta R.T. -0.00 min

Lab File: BF083936.D

Acq: 19 Dec 2015 2:25

Instrument :

BNA\_F

ClientSampleId :

W-04

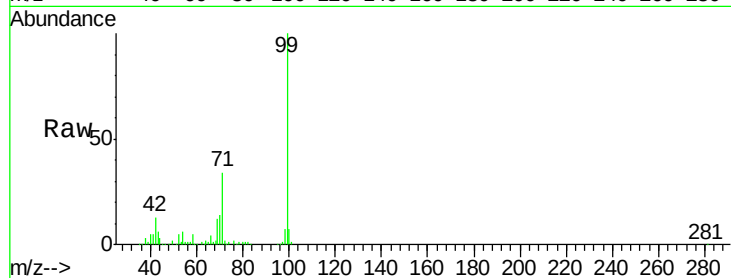
Tgt Ion: 99 Resp: 265073

Ion Ratio Lower Upper

99 100

42 13.4 12.8 19.2

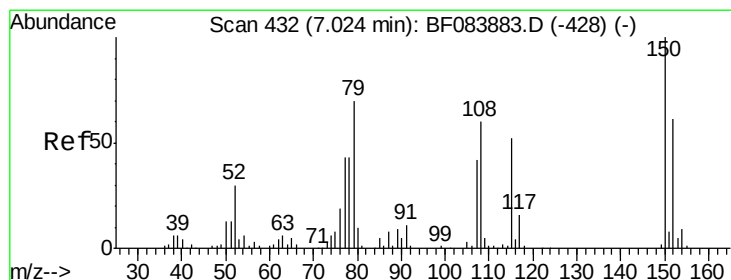
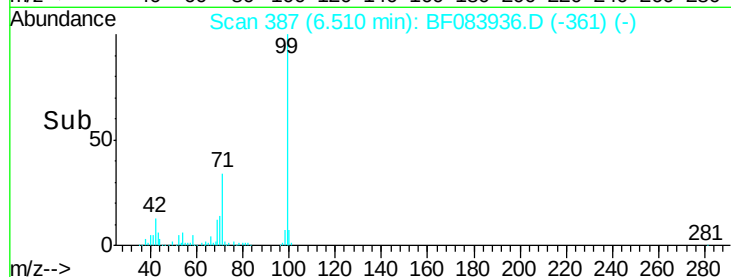
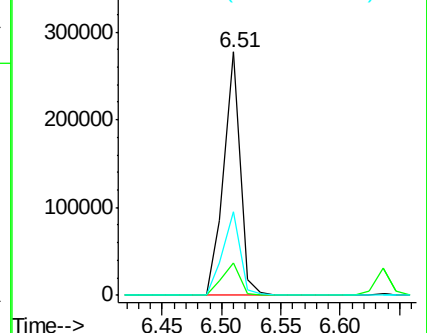
71 34.3 30.9 46.3



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



#15

Benzyl Alcohol

Concen: 2.13 ng

RT: 7.02 min Scan# 432

Delta R.T. -0.00 min

Lab File: BF083936.D

Acq: 19 Dec 2015 2:25

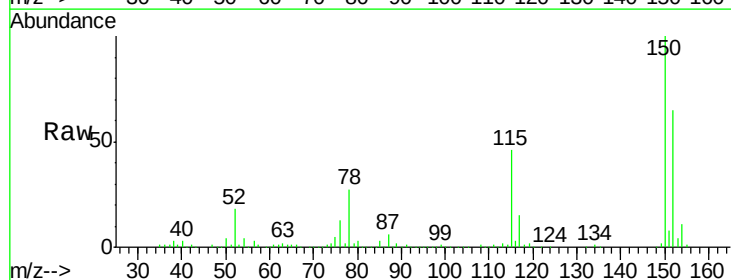
Tgt Ion: 79 Resp: 9142

Ion Ratio Lower Upper

79 100

108 31.6 69.0 103.4#

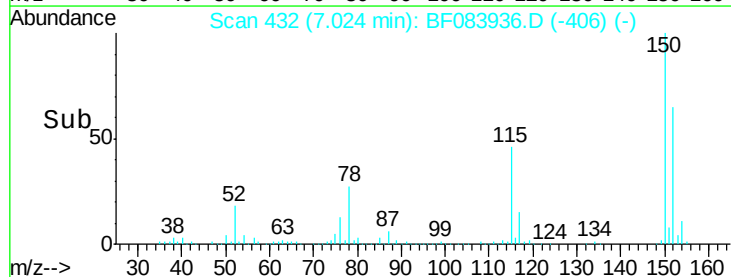
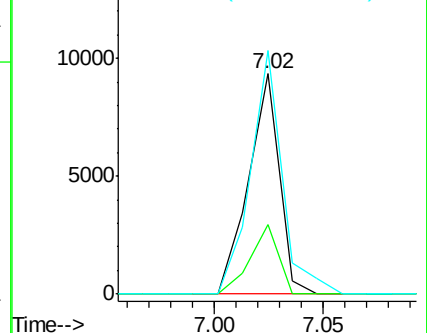
77 110.6 50.0 75.0#

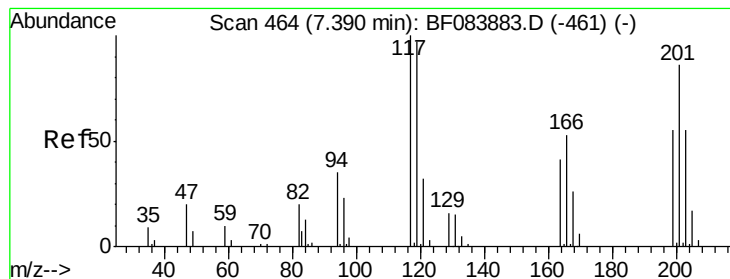


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0





#18

Hexachloroethane

Concen: 27.30 ng

RT: 7.40 min Scan# 465

Delta R.T. 0.01 min

Lab File: BF083936.D

Acq: 19 Dec 2015 2:25

Instrument :

BNA\_F

ClientSampled :

W-04

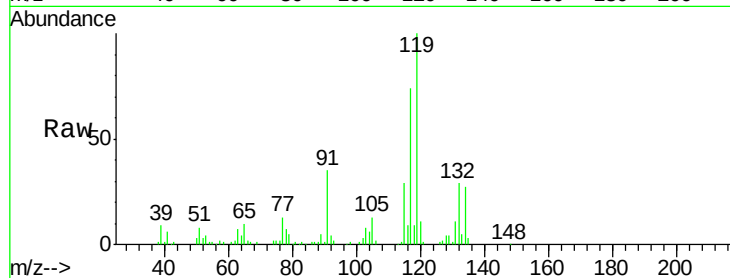
Tgt Ion: 117 Resp: 60619

Ion Ratio Lower Upper

117 100

119 135.4 77.4 116.0#

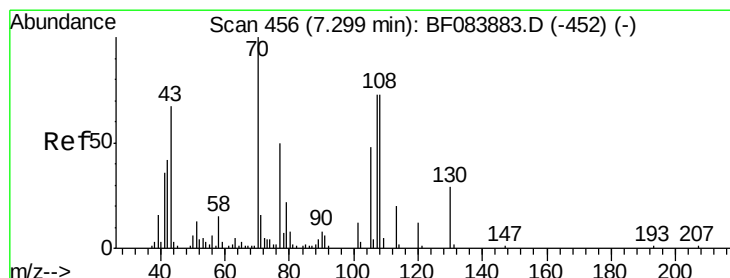
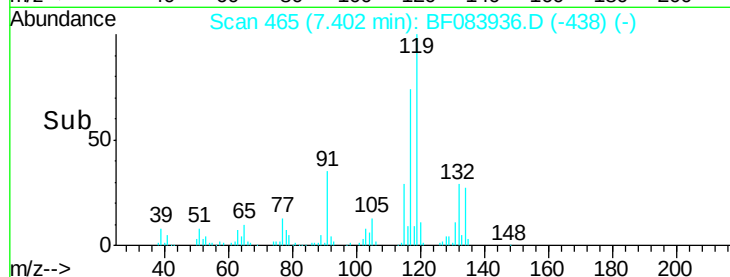
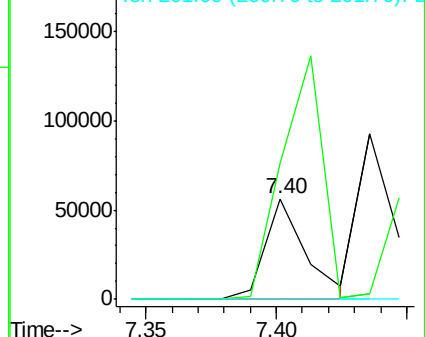
201 0.0 68.6 103.0#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E



#19

n-Nitroso-di-n-propylamine

Concen: 21.35 ng

RT: 7.44 min Scan# 468

Delta R.T. 0.14 min

Lab File: BF083936.D

Acq: 19 Dec 2015 2:25

Tgt Ion: 70 Resp: 70575

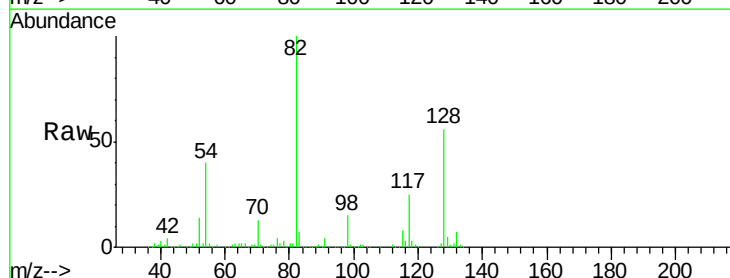
Ion Ratio Lower Upper

70 100

42 33.3 33.3 49.9

101 1.1 9.3 13.9#

130 4.0 23.4 35.0#

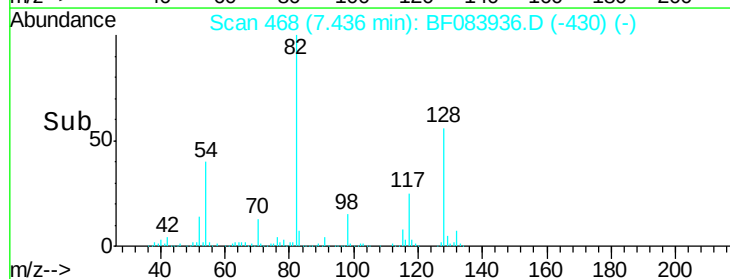
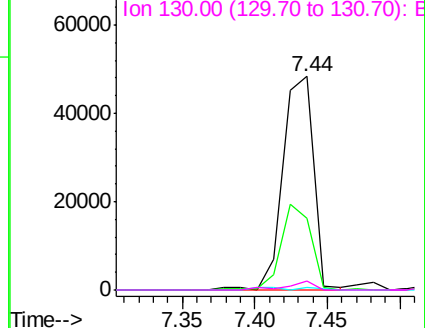


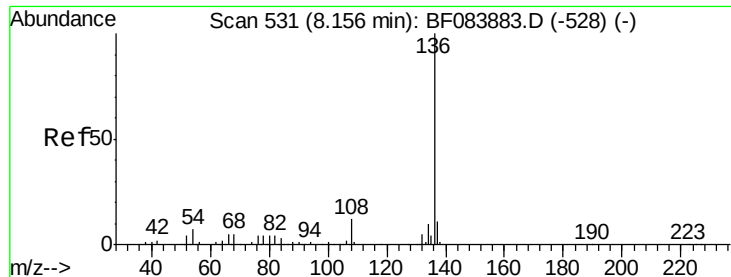
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 531

Delta R.T. -0.00 min

Lab File: BF083936.D

Acq: 19 Dec 2015 2:25

Instrument :

BNA\_F

ClientSampleId :

W-04

Tgt Ion:136 Resp: 288222

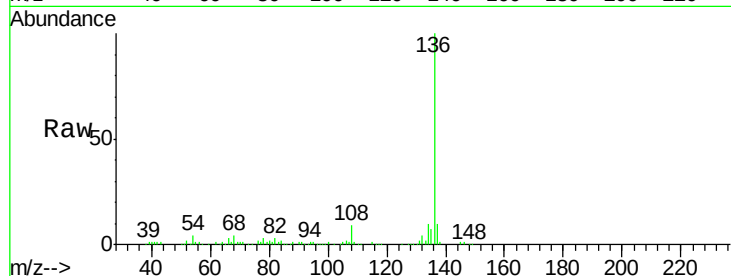
Ion Ratio Lower Upper

136 100

137 10.4 8.7 13.1

54 4.2 5.8 8.8#

68 3.9 4.2 6.2#

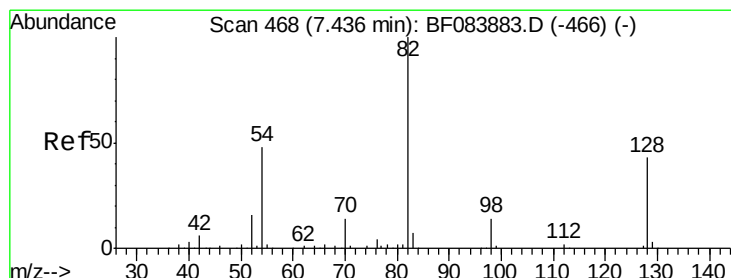
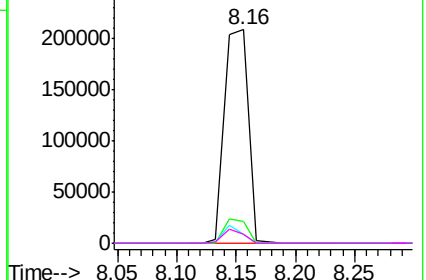
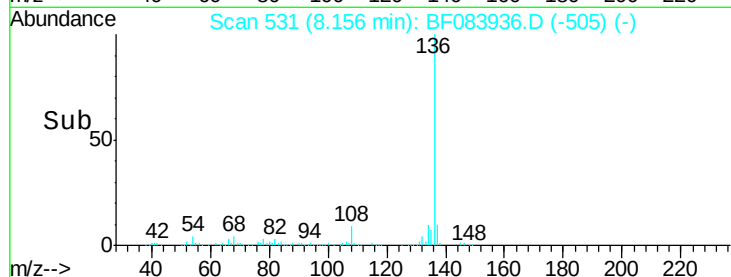


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 101.64 ng

RT: 7.44 min Scan# 468

Delta R.T. -0.00 min

Lab File: BF083936.D

Acq: 19 Dec 2015 2:25

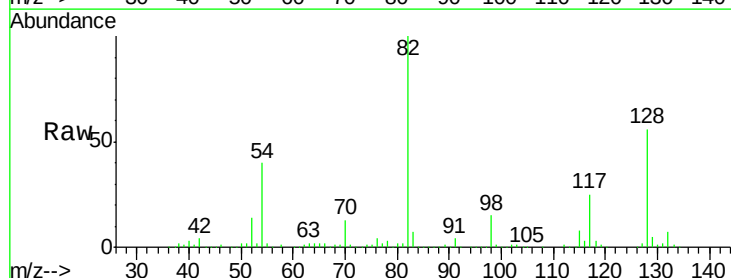
Tgt Ion: 82 Resp: 513307

Ion Ratio Lower Upper

82 100

128 56.4 34.6 51.8#

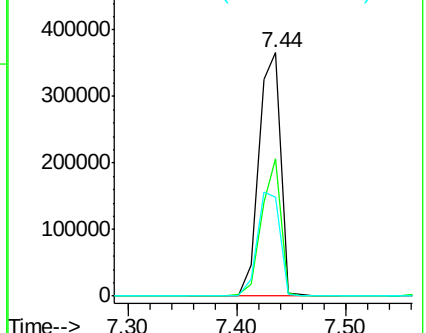
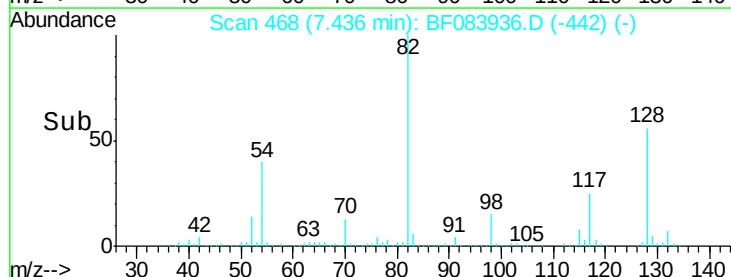
54 40.5 38.4 57.6

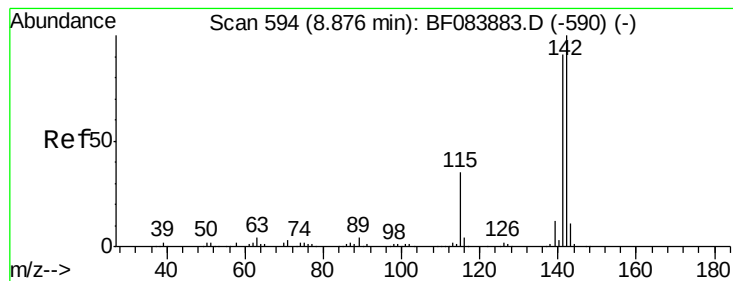


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

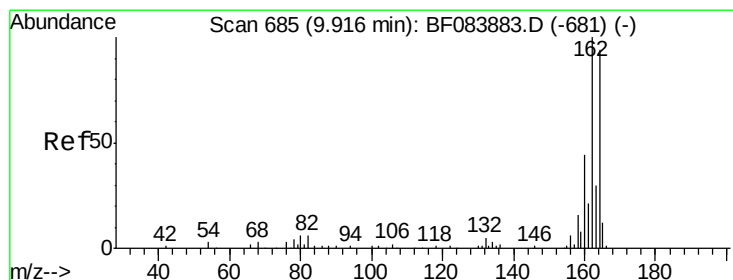
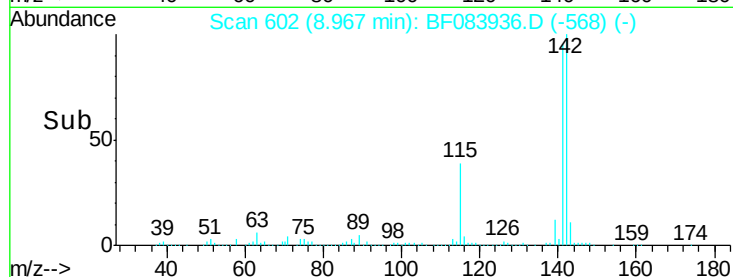
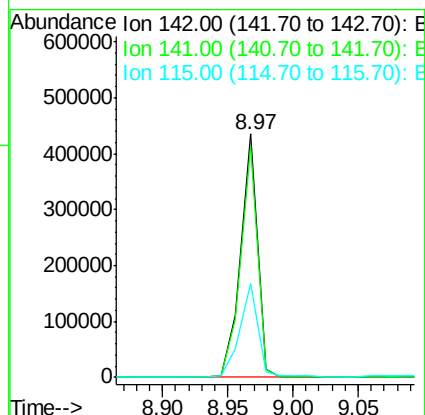
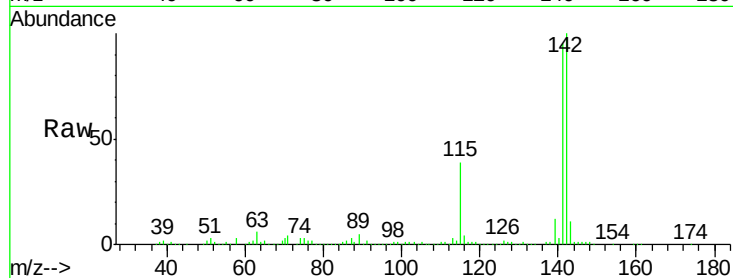




#37  
 2-Methylnaphthalene  
 Concen: 38.68 ng  
 RT: 8.97 min Scan# 602  
 Delta R.T. 0.09 min  
 Lab File: BF083936.D  
 Acq: 19 Dec 2015 2:25

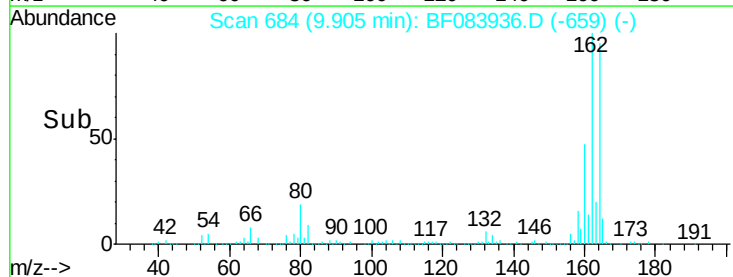
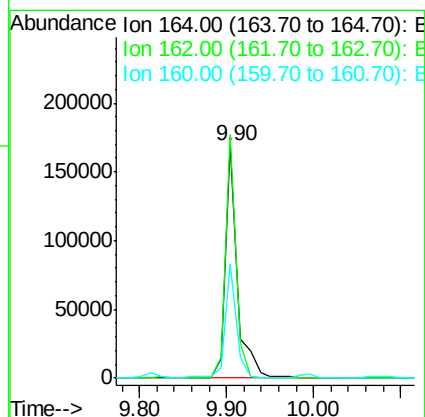
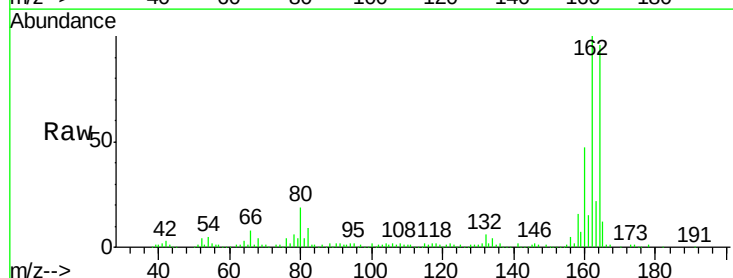
Instrument :  
 BNA\_F  
 ClientSampled :  
 W-04

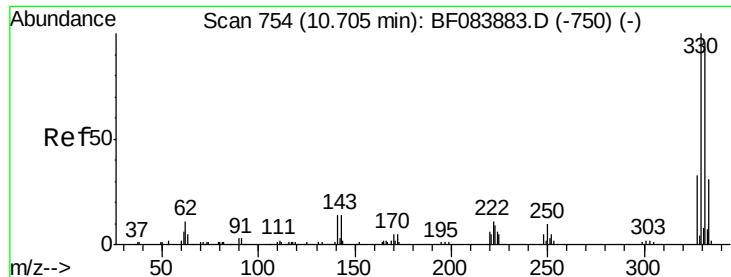
Tgt Ion:142 Resp: 387509  
 Ion Ratio Lower Upper  
 142 100  
 141 95.0 72.4 108.6  
 115 38.8 27.9 41.9



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.90 min Scan# 684  
 Delta R.T. -0.01 min  
 Lab File: BF083936.D  
 Acq: 19 Dec 2015 2:25

Tgt Ion:164 Resp: 163517  
 Ion Ratio Lower Upper  
 164 100  
 162 104.5 85.1 127.7  
 160 48.8 37.5 56.3

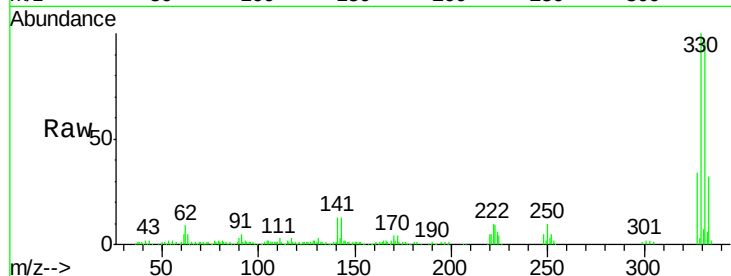




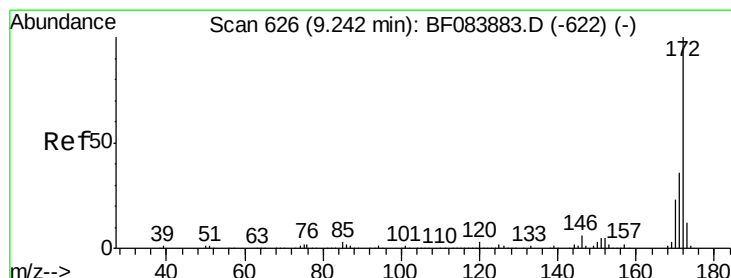
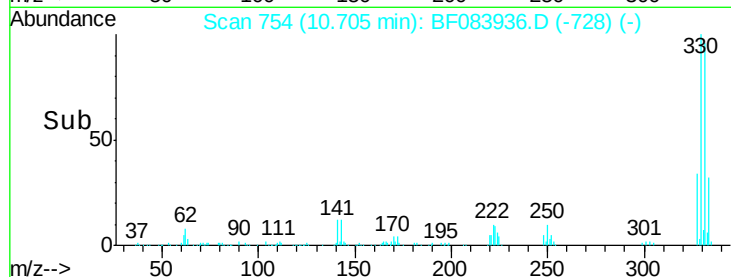
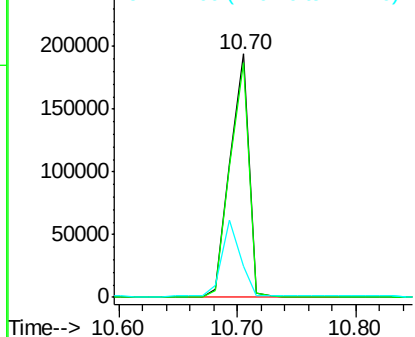
#41  
 2,4,6-Tribromophenol  
 Concen: 118.88 ng  
 RT: 10.70 min Scan# 754  
 Delta R.T. -0.00 min  
 Lab File: BF083936.D  
 Acq: 19 Dec 2015 2:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.9  | 76.6  | 114.8 |
| 141     | 31.0  | 27.8  | 41.6  |

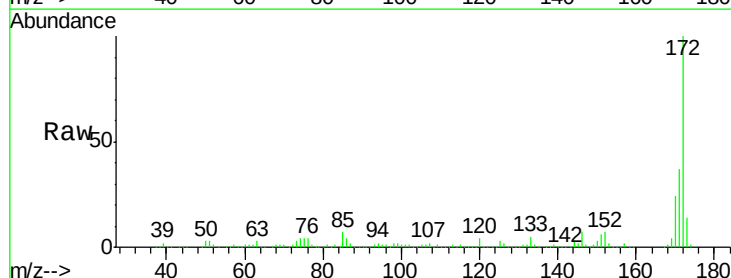


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

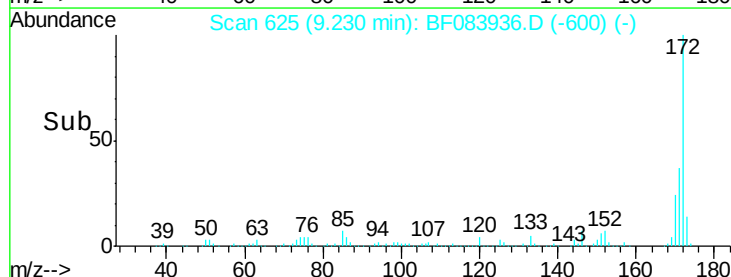
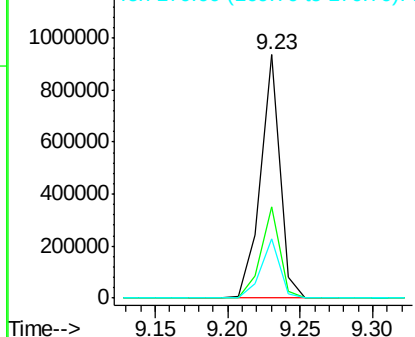


#44  
 2-Fluorobiphenyl  
 Concen: 73.39 ng  
 RT: 9.23 min Scan# 625  
 Delta R.T. -0.01 min  
 Lab File: BF083936.D  
 Acq: 19 Dec 2015 2:25

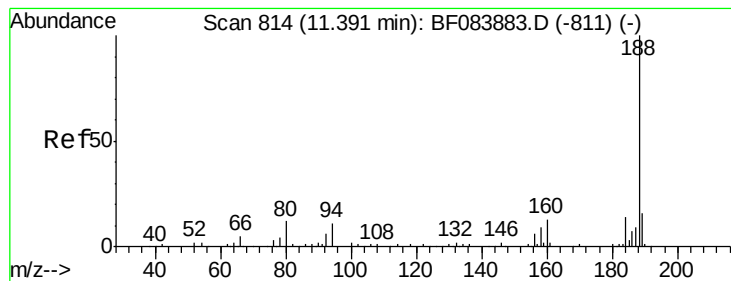
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.3  | 28.9  | 43.3  |
| 170     | 24.3  | 18.6  | 27.8  |



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







#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.39 min Scan# 814

Delta R.T. -0.00 min

Lab File: BF083936.D

Acq: 19 Dec 2015 2:25

Instrument :

BNA\_F

ClientSampleId :

W-04

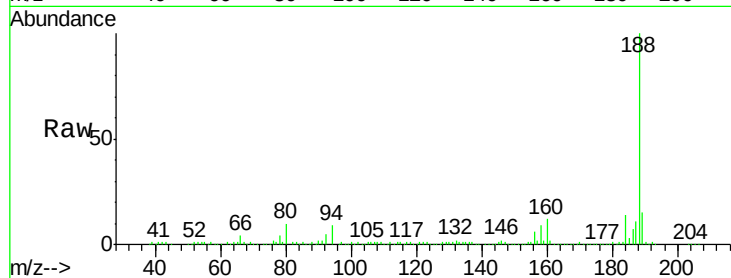
Tgt Ion:188 Resp: 233534

Ion Ratio Lower Upper

188 100

94 9.1 9.0 13.4

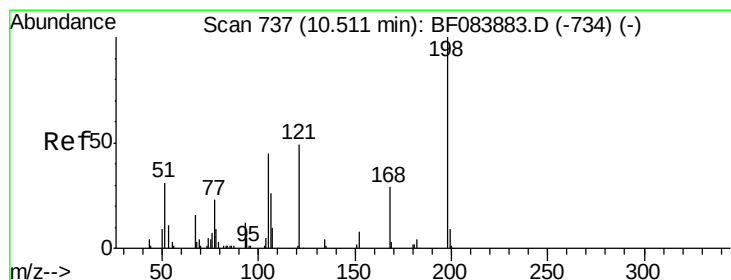
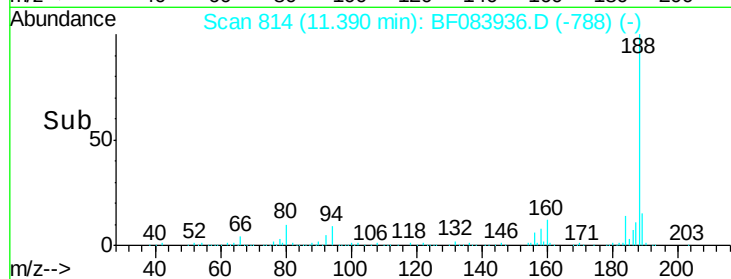
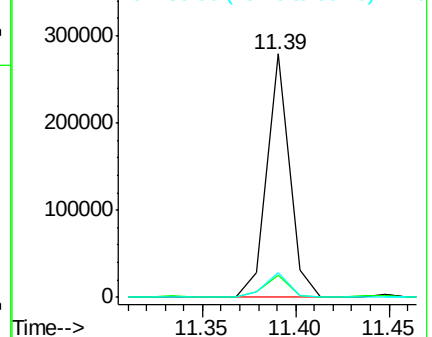
80 10.1 9.6 14.4



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: 4.28 ng

RT: 10.69 min Scan# 753

Delta R.T. 0.18 min

Lab File: BF083936.D

Acq: 19 Dec 2015 2:25

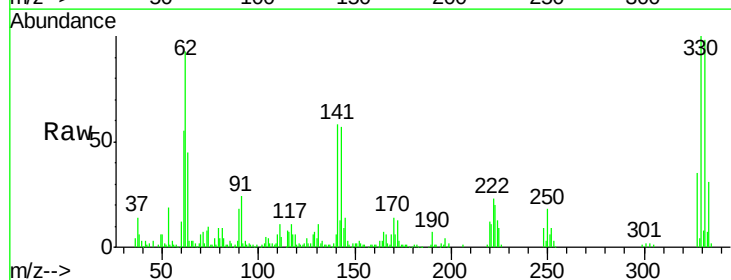
Tgt Ion:198 Resp: 547

Ion Ratio Lower Upper

198 100

51 515.3 18.9 58.9#

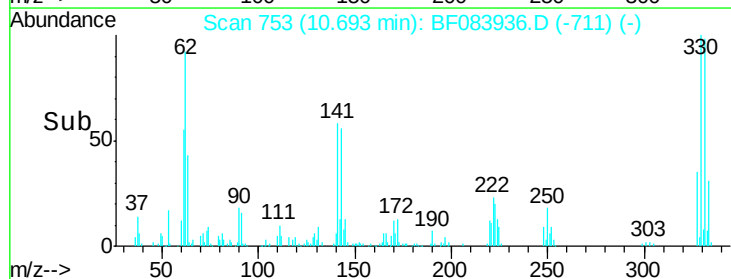
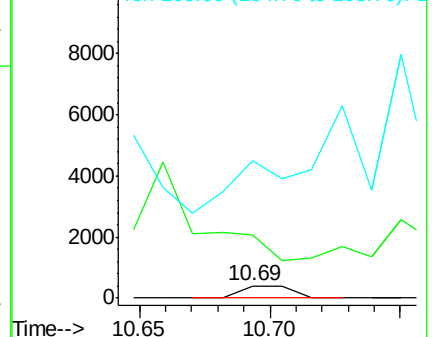
105 1108.1 26.4 66.4#

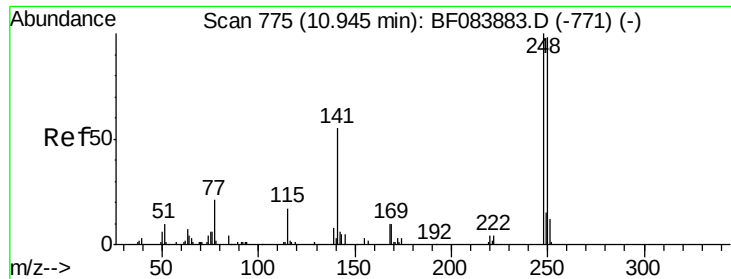


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

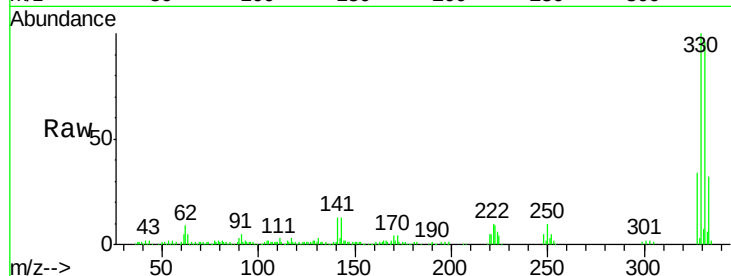




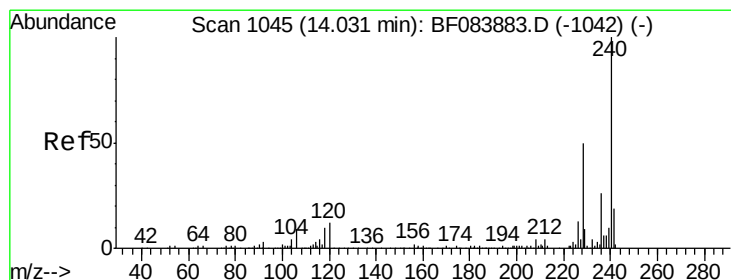
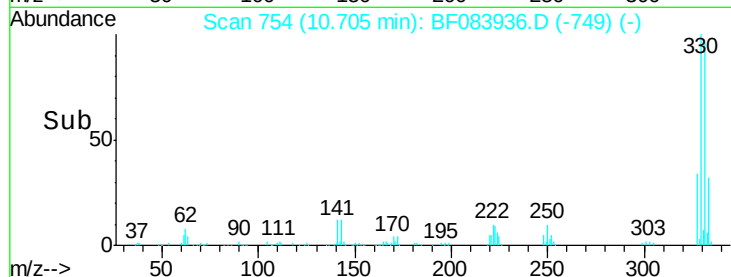
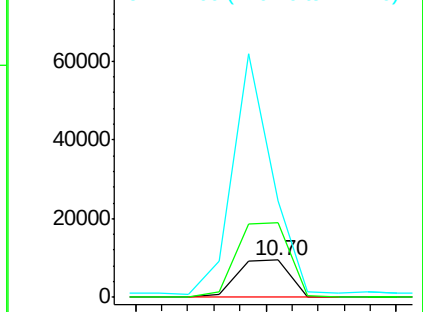
#66  
4-Bromophenyl-phenylether  
Concen: 4.71 ng  
RT: 10.70 min Scan# 754  
Delta R.T. -0.24 min  
Lab File: BF083936.D  
Acq: 19 Dec 2015 2:25

Instrument :  
BNA\_F  
ClientSampleId :  
W-04

Tgt Ion:248 Resp: 13453  
Ion Ratio Lower Upper  
248 100  
250 200.6 78.4 117.6#  
141 262.0 44.0 66.0#

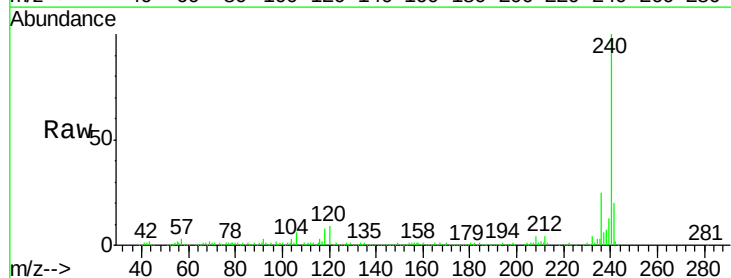


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

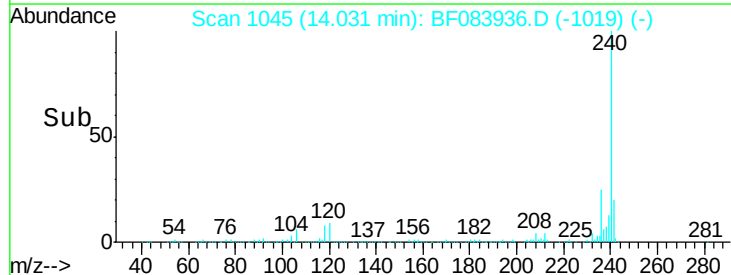
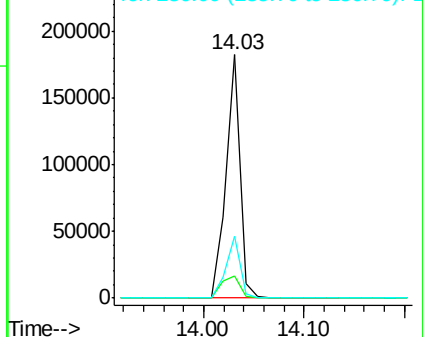


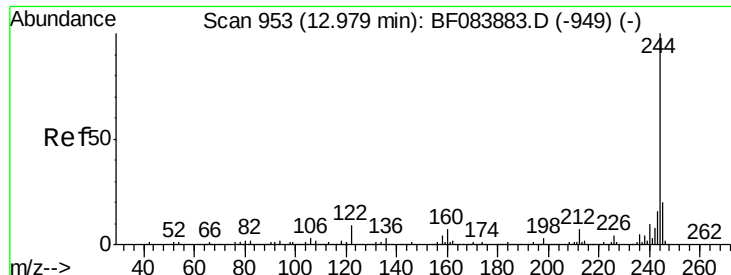
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.03 min Scan# 1045  
Delta R.T. -0.00 min  
Lab File: BF083936.D  
Acq: 19 Dec 2015 2:25

Tgt Ion:240 Resp: 176881  
Ion Ratio Lower Upper  
240 100  
120 9.1 9.5 14.3#  
236 25.4 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

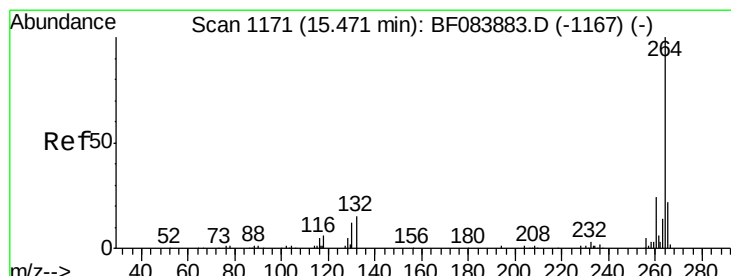
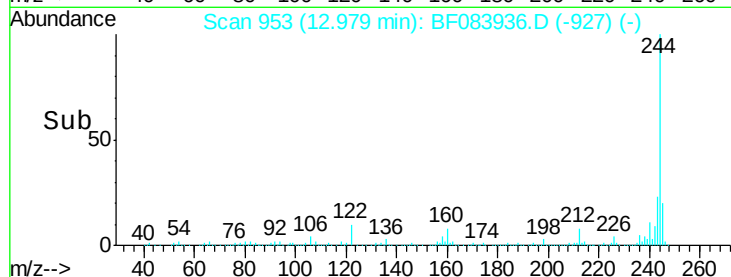
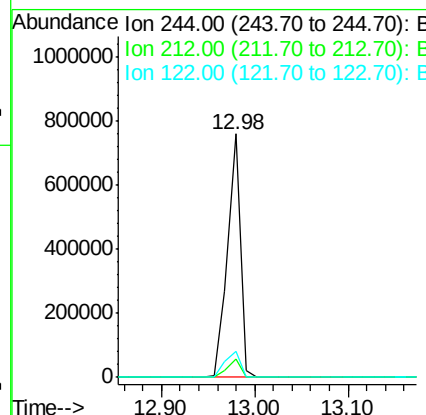
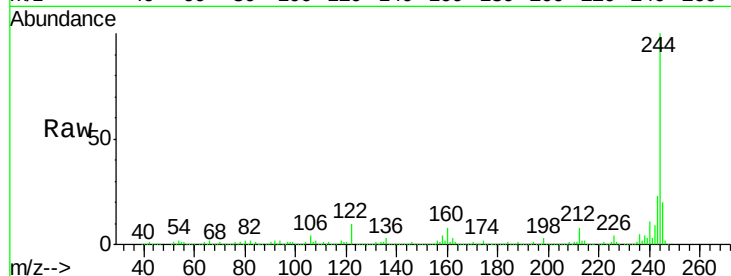




#78  
 Terphenyl-d14  
 Concen: 97.26 ng  
 RT: 12.98 min Scan# 953  
 Delta R.T. 0.00 min  
 Lab File: BF083936.D  
 Acq: 19 Dec 2015 2:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-04

Tgt Ion:244 Resp: 729003  
 Ion Ratio Lower Upper  
 244 100  
 212 7.6 5.7 8.5  
 122 10.4 7.4 11.0



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.47 min Scan# 1171  
 Delta R.T. -0.00 min  
 Lab File: BF083936.D  
 Acq: 19 Dec 2015 2:25

Tgt Ion:264 Resp: 159437  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 19.4 29.2  
 265 21.3 17.8 26.6

