

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF010416\  
 Data File : BF084266.D  
 Acq On : 5 Jan 2016 5:31  
 Operator : UM/SJ  
 Sample : G4990-10  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-41

Quant Time: Jan 05 07:17:16 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

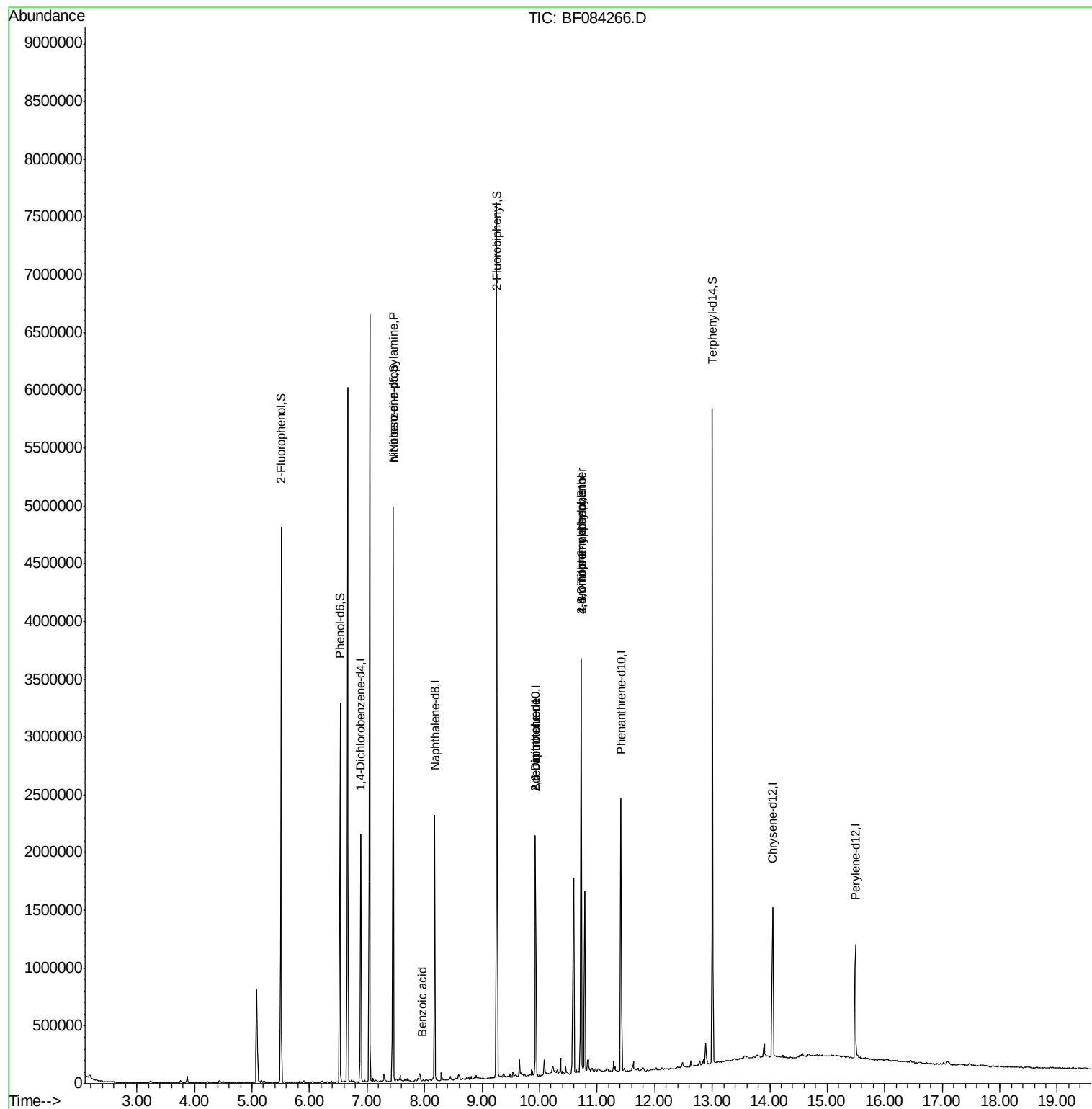
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.89  | 152  | 280281   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.18  | 136  | 1125003  | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.93  | 164  | 482354   | 20.00     | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.41 | 188  | 794875   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 14.05 | 240  | 548682   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.49 | 264  | 532494   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 1162893  | 67.11     | ng    | 0.01     |
| 7) Phenol-d6                   | 6.53  | 99   | 1124918  | 51.69     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.46  | 82   | 1811427  | 89.61     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.73 | 330  | 650334   | 133.54    | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.25  | 172  | 2486026  | 91.12     | ng    | -0.01    |
| 78) Terphenyl-d14              | 13.00 | 244  | 1659005  | 67.49     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 260526   | 17.68     | ng    | # 71     |
| 32) Benzoic acid               | 7.95  | 122  | 334      | 6.27      | ng    | # 31     |
| 50) 2,6-Dinitrotoluene         | 9.93  | 165  | 64335    | 8.51      | ng    | # 38     |
| 54) Dibenzofuran               | 10.13 | 168  | 889      | Below Cal | #     | 36       |
| 56) 2,4-Dinitrotoluene         | 9.93  | 165  | 64585    | 6.75      | ng    | # 21     |
| 57) Fluorene                   | 10.48 | 166  | 1781     | Below Cal | #     | 69       |
| 64) 4,6-Dinitro-2-methylphenol | 10.73 | 198  | 1693     | 6.68      | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.73 | 248  | 40556    | 4.74      | ng    | # 1      |
| 73) Di-n-butylphthalate        | 11.98 | 149  | 4411     | Below Cal | #     | 76       |

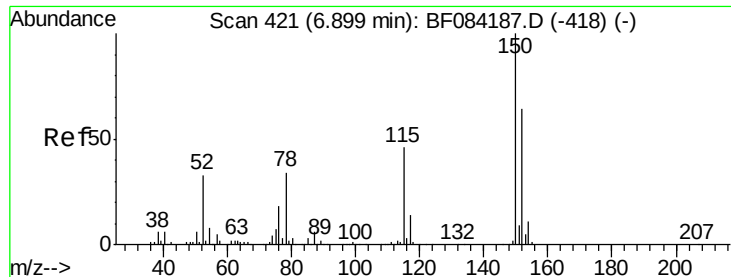
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF010416\  
Data File : BF084266.D  
Acq On : 5 Jan 2016 5:31  
Operator : UM/SJ  
Sample : G4990-10  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
W-41

Quant Time: Jan 05 07:17:16 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: 6.89 min Scan# 420

Delta R.T. -0.01 min

Lab File: BF084266.D

Acq: 5 Jan 2016 5:31

Instrument :

BNA\_F

ClientSampleId :

W-41

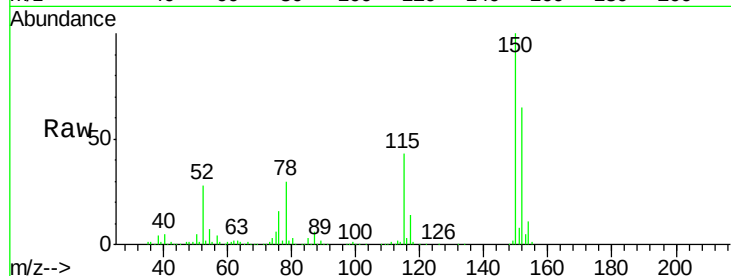
Tgt Ion:152 Resp: 280281

Ion Ratio Lower Upper

152 100

150 154.3 123.0 184.4

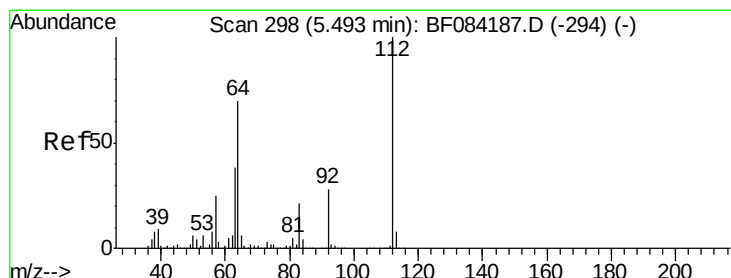
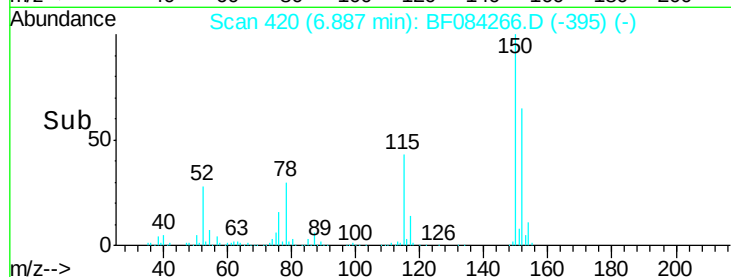
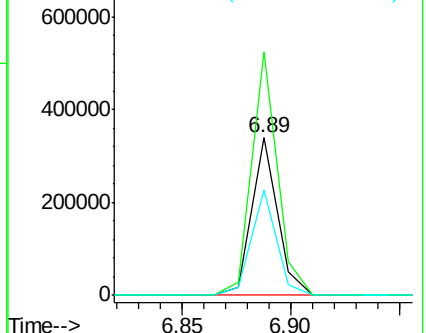
115 66.7 51.4 77.2



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: 67.11 ng

RT: 5.50 min Scan# 299

Delta R.T. 0.01 min

Lab File: BF084266.D

Acq: 5 Jan 2016 5:31

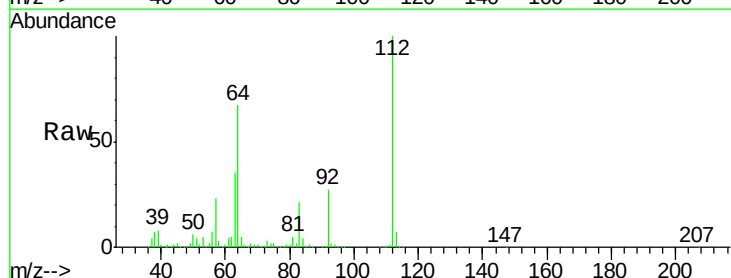
Tgt Ion:112 Resp: 1162893

Ion Ratio Lower Upper

112 100

64 67.1 36.6 55.0#

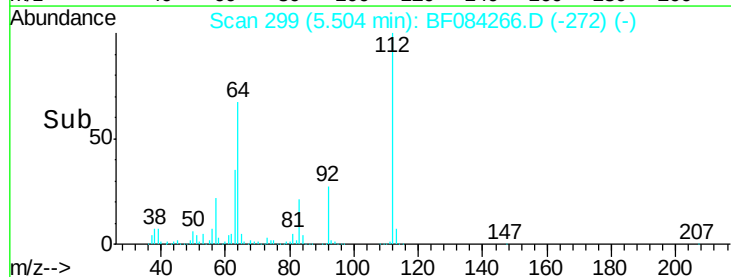
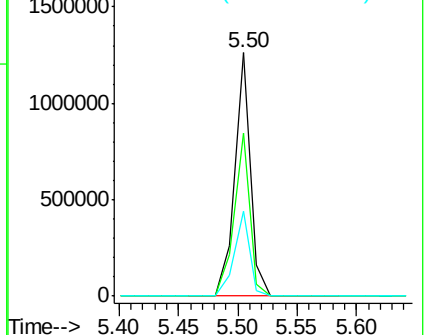
63 34.8 19.4 29.0#

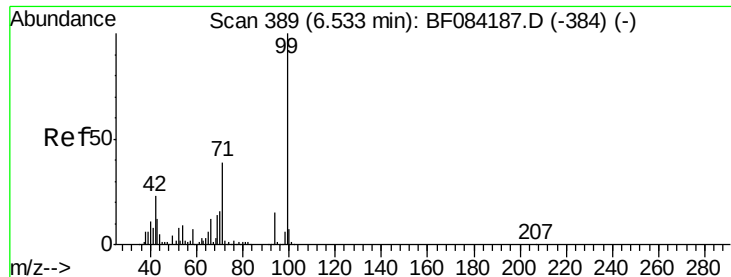


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 51.69 ng

RT: 6.53 min Scan# 389

Delta R.T. 0.00 min

Lab File: BF084266.D

Acq: 5 Jan 2016 5:31

Instrument :

BNA\_F

ClientSampleId :

W-41

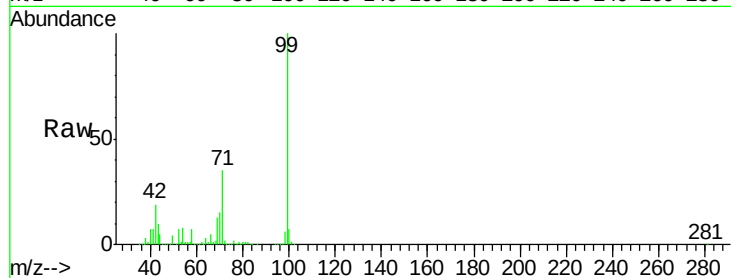
Tgt Ion: 99 Resp: 1124918

Ion Ratio Lower Upper

99 100

42 19.1 12.8 19.2

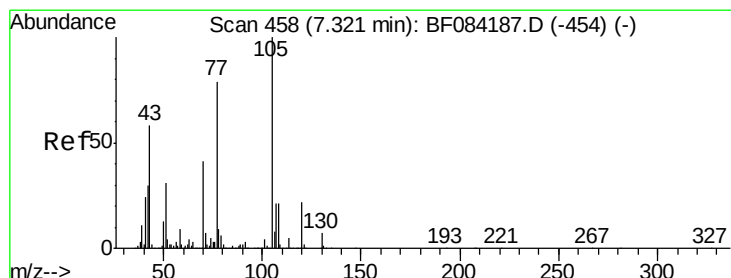
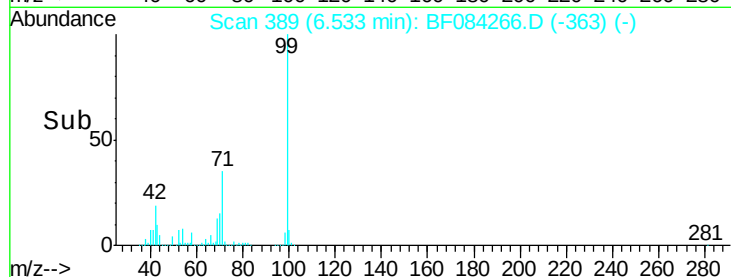
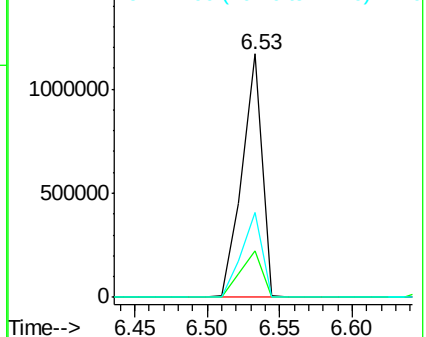
71 34.7 30.9 46.3



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: 17.68 ng

RT: 7.46 min Scan# 470

Delta R.T. 0.14 min

Lab File: BF084266.D

Acq: 5 Jan 2016 5:31

Tgt Ion: 70 Resp: 260526

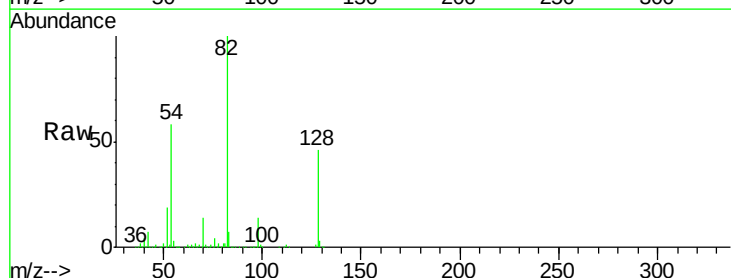
Ion Ratio Lower Upper

70 100

42 49.6 33.3 49.9

101 0.0 9.3 13.9#

130 2.0 23.4 35.0#

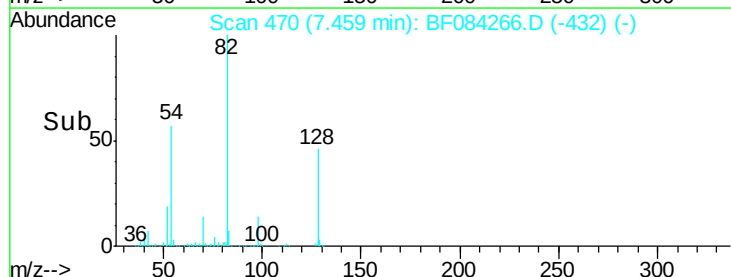
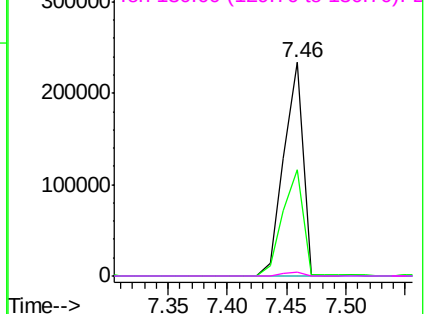


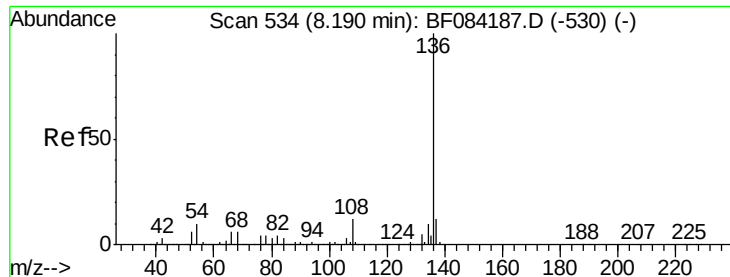
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 533

Delta R.T. -0.01 min

Lab File: BF084266.D

Acq: 5 Jan 2016 5:31

Instrument :

BNA\_F

ClientSampleId :

W-41

Tgt Ion:136 Resp: 1125003

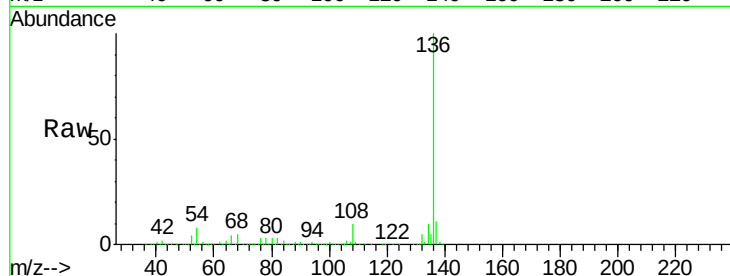
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 7.6 5.8 8.8

68 4.6 4.2 6.2

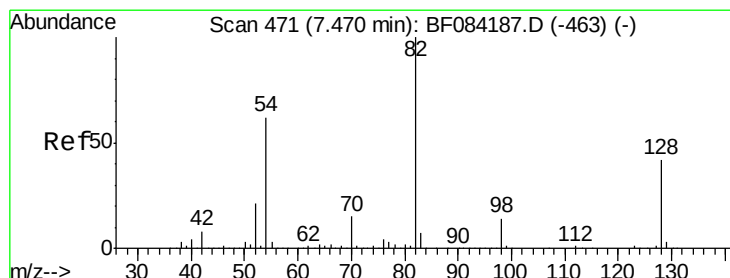
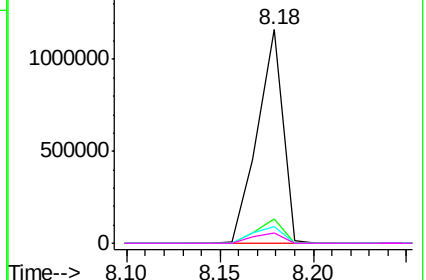
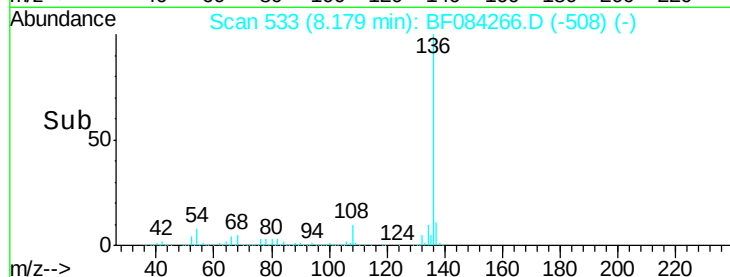


Abundance Ion 136.00 (135.70 to 136.70): E

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: 89.61 ng

RT: 7.46 min Scan# 470

Delta R.T. -0.01 min

Lab File: BF084266.D

Acq: 5 Jan 2016 5:31

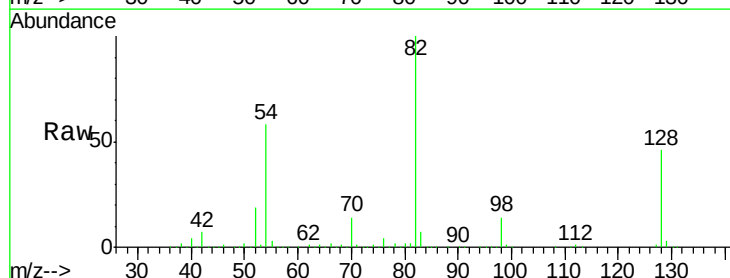
Tgt Ion: 82 Resp: 1811427

Ion Ratio Lower Upper

82 100

128 46.2 34.6 51.8

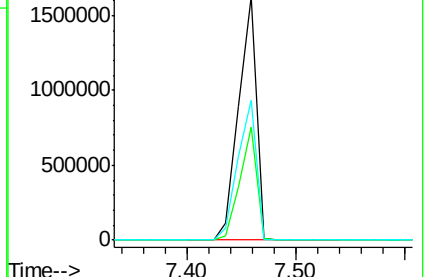
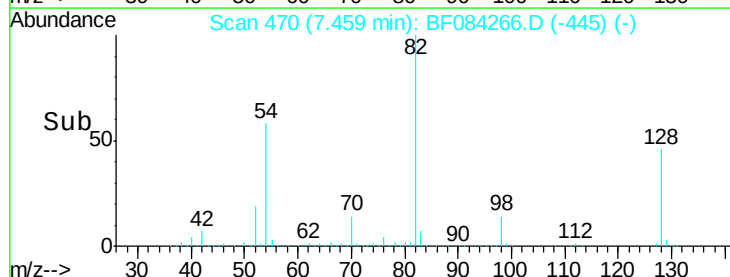
54 57.5 38.4 57.6

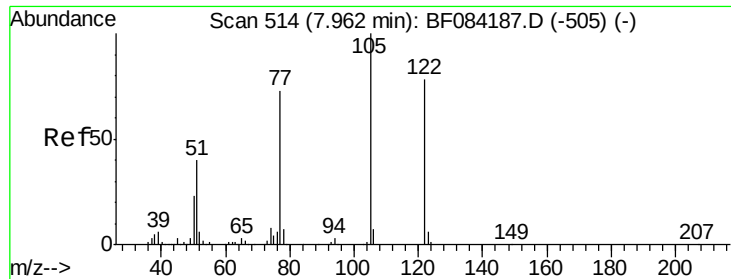


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

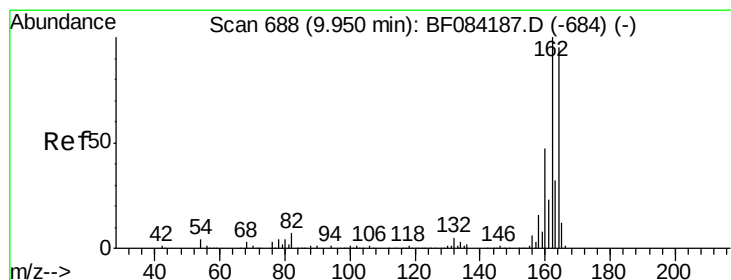
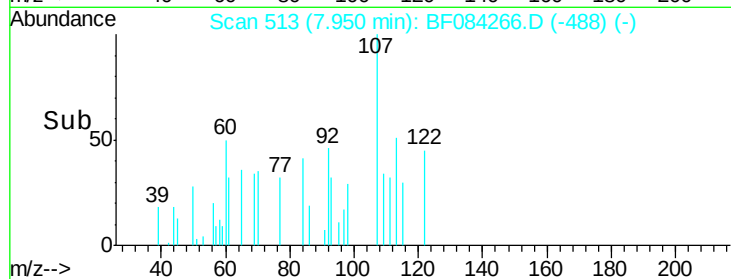
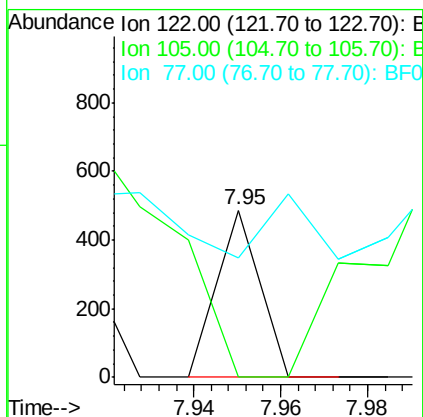
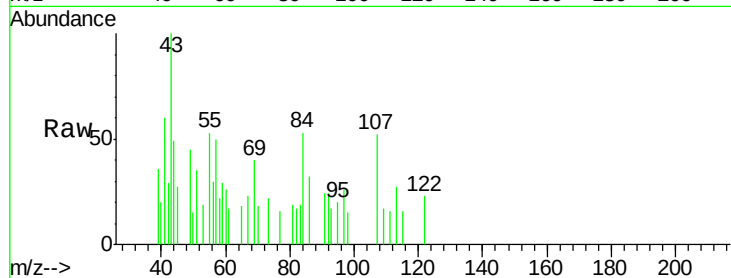




#32  
Benzoic acid  
Concen: 6.27 ng  
RT: 7.95 min Scan# 513  
Delta R.T. -0.01 min  
Lab File: BF084266.D  
Acq: 5 Jan 2016 5:31

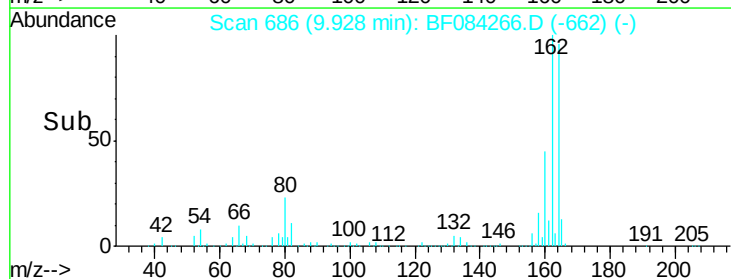
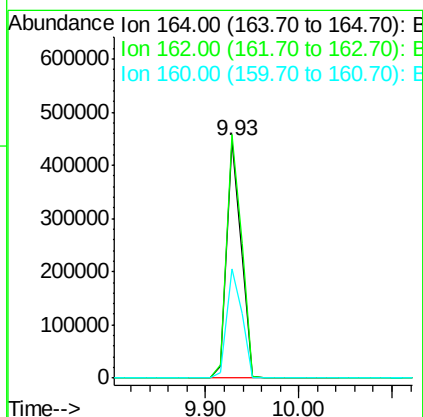
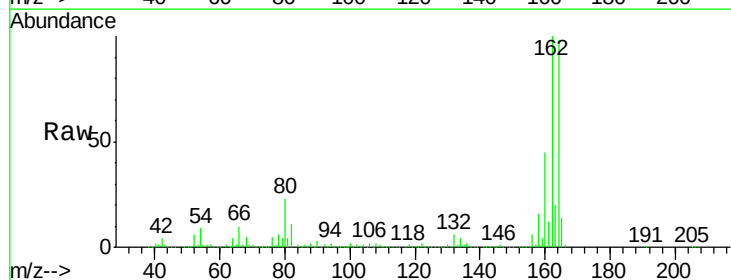
Instrument :  
BNA\_F  
ClientSampled :  
W-41

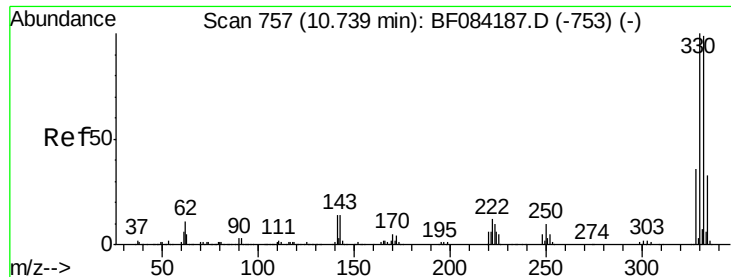
Tgt Ion:122 Resp: 334  
Ion Ratio Lower Upper  
122 100  
105 0.0 100.3 140.3#  
77 71.3 63.5 103.5



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.93 min Scan# 686  
Delta R.T. -0.02 min  
Lab File: BF084266.D  
Acq: 5 Jan 2016 5:31

Tgt Ion:164 Resp: 482354  
Ion Ratio Lower Upper  
164 100  
162 102.4 85.1 127.7  
160 46.0 37.5 56.3

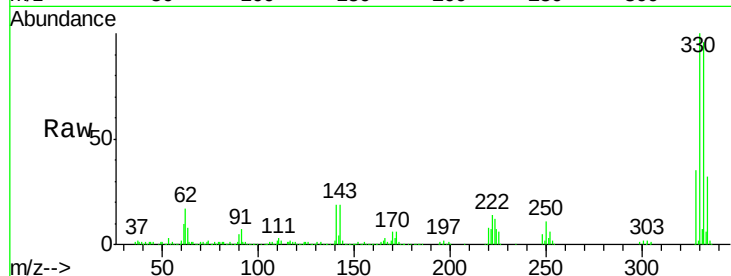




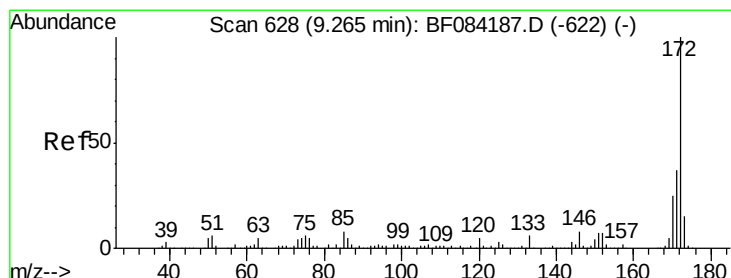
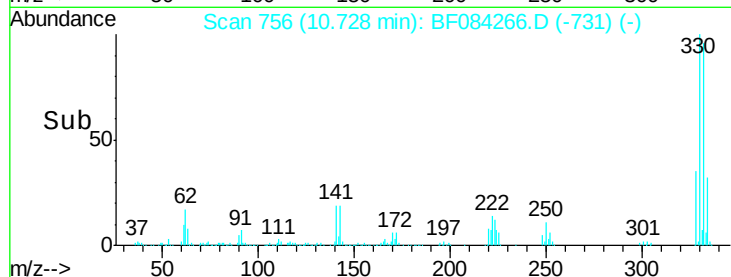
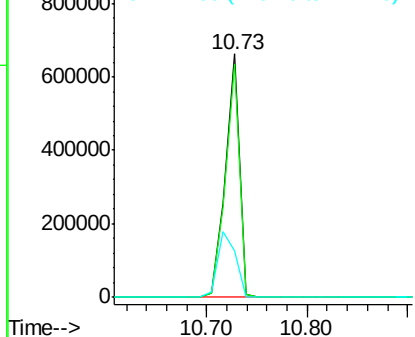
#41  
 2,4,6-Tribromophenol  
 Concen: 133.54 ng  
 RT: 10.73 min Scan# 756  
 Delta R.T. -0.01 min  
 Lab File: BF084266.D  
 Acq: 5 Jan 2016 5:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-41

Tgt Ion:330 Resp: 650334  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 76.6 114.8  
 141 34.0 27.8 41.6

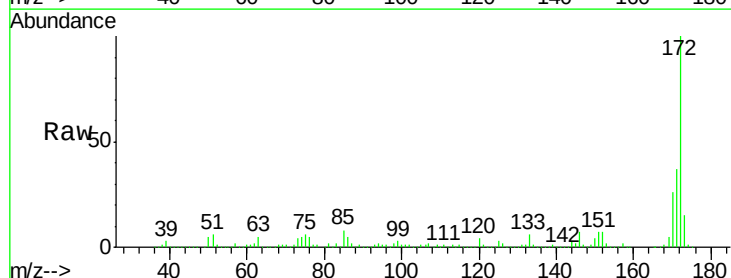


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

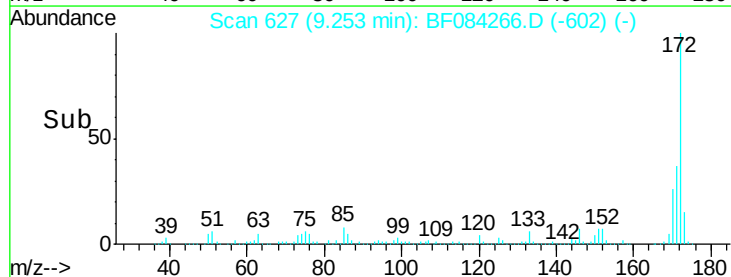
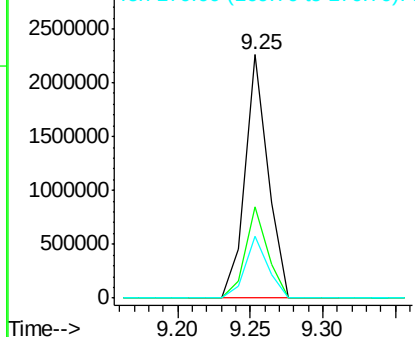


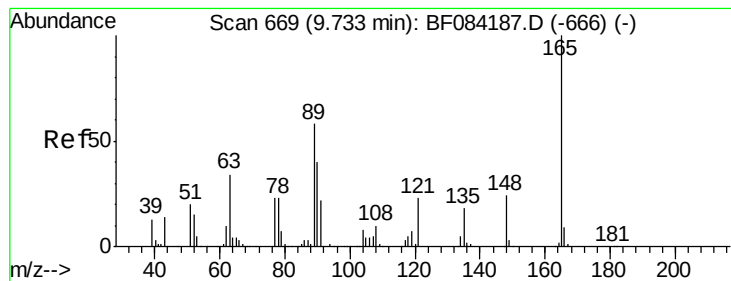
#44  
 2-Fluorobiphenyl  
 Concen: 91.12 ng  
 RT: 9.25 min Scan# 627  
 Delta R.T. -0.01 min  
 Lab File: BF084266.D  
 Acq: 5 Jan 2016 5:31

Tgt Ion:172 Resp: 2486026  
 Ion Ratio Lower Upper  
 172 100  
 171 37.3 28.9 43.3  
 170 25.7 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: 8.51 ng

RT: 9.93 min Scan# 686

Delta R.T. 0.19 min

Lab File: BF084266.D

Acq: 5 Jan 2016 5:31

Instrument :

BNA\_F

ClientSampleId :

W-41

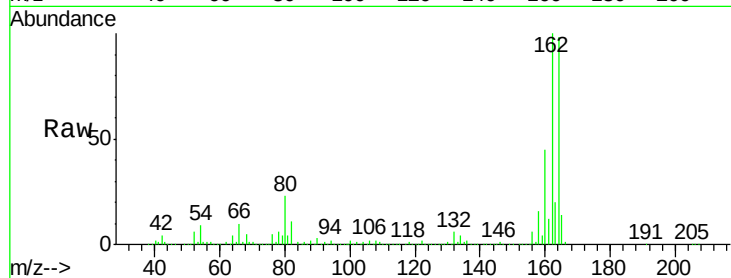
Tgt Ion:165 Resp: 64335

Ion Ratio Lower Upper

165 100

63 1.7 28.8 43.2#

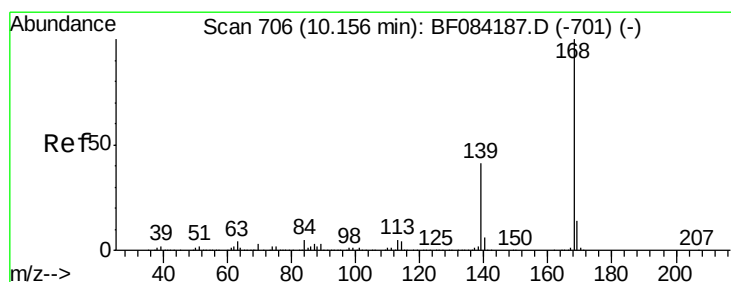
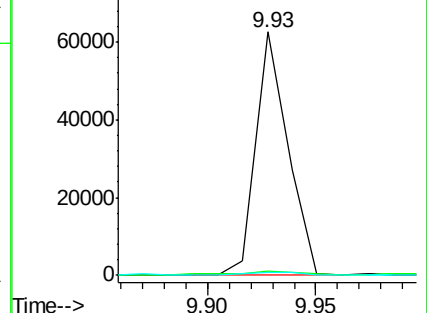
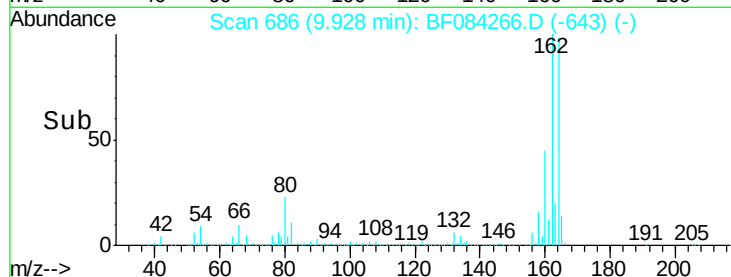
89 1.3 35.1 52.7#



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



#54

Dibenzofuran

Concen: Below Cal

RT: 10.13 min Scan# 704

Delta R.T. -0.02 min

Lab File: BF084266.D

Acq: 5 Jan 2016 5:31

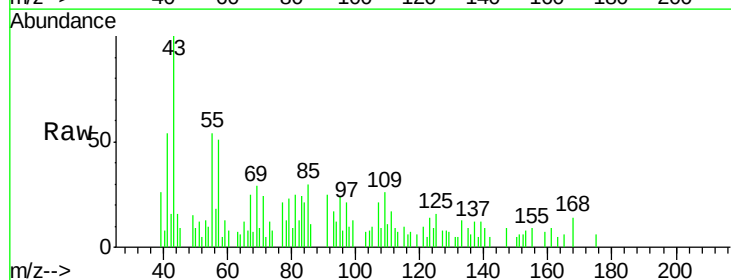
Tgt Ion:168 Resp: 889

Ion Ratio Lower Upper

168 100

139 82.9 30.5 45.7#

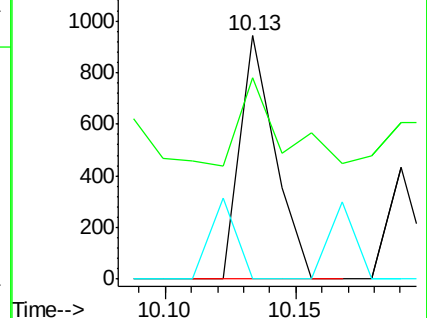
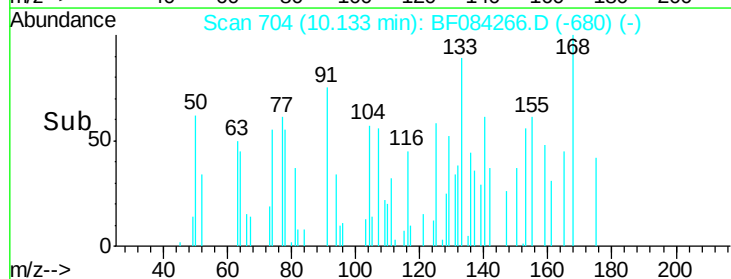
169 0.0 10.4 15.6#



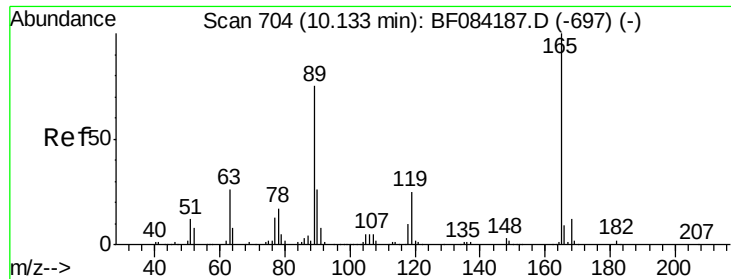
Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



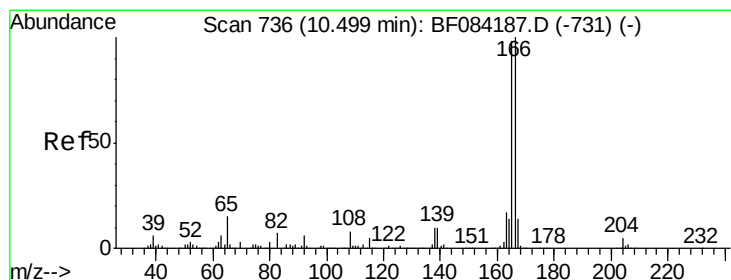
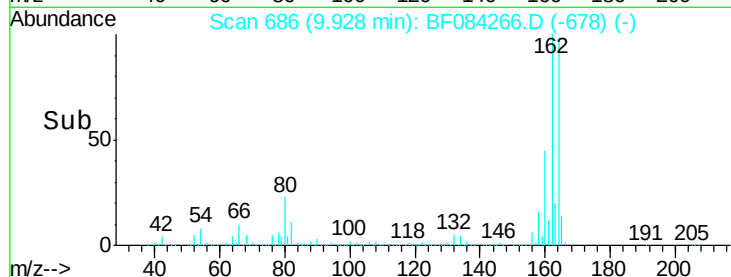
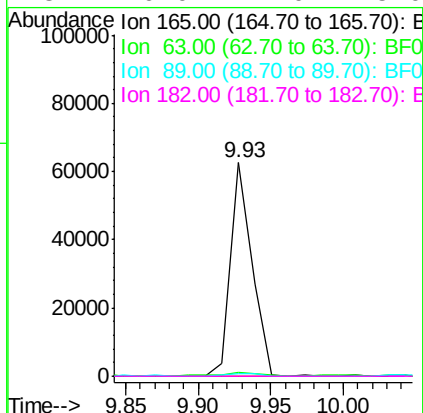
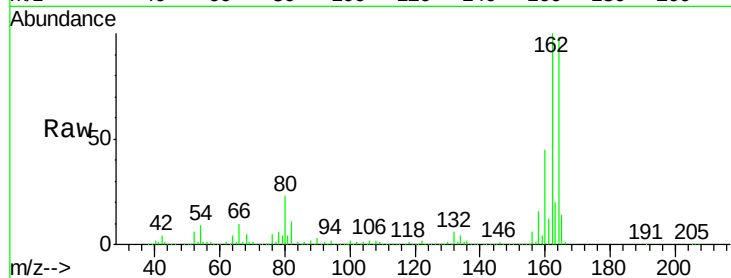




#56  
2,4-Dinitrotoluene  
Concen: 6.75 ng  
RT: 9.93 min Scan# 686  
Delta R.T. -0.21 min  
Lab File: BF084266.D  
Acq: 5 Jan 2016 5:31

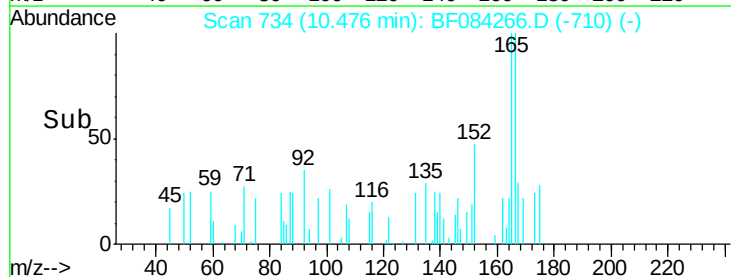
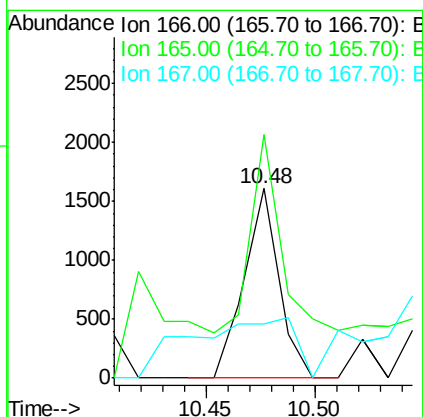
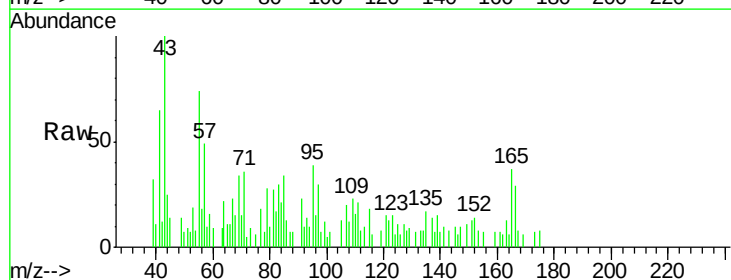
Instrument :  
BNA\_F  
ClientSampleId :  
W-41

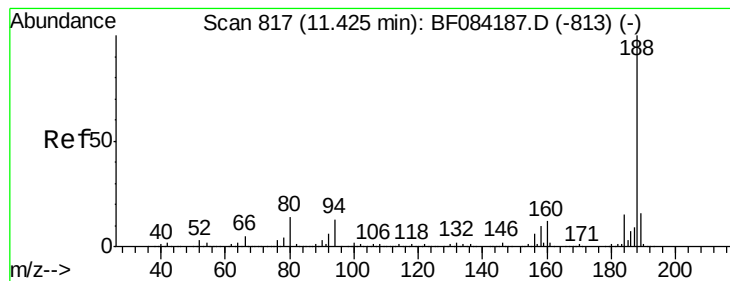
Tgt Ion:165 Resp: 64585  
Ion Ratio Lower Upper  
165 100  
63 1.7 36.7 55.1#  
89 1.3 61.9 92.9#  
182 0.0 2.0 3.0#



#57  
Fluorene  
Concen: Below Cal  
RT: 10.48 min Scan# 734  
Delta R.T. -0.02 min  
Lab File: BF084266.D  
Acq: 5 Jan 2016 5:31

Tgt Ion:166 Resp: 1781  
Ion Ratio Lower Upper  
166 100  
165 128.5 79.1 118.7#  
167 28.6 10.4 15.6#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.01 min

Lab File: BF084266.D

Acq: 5 Jan 2016 5:31

Instrument :

BNA\_F

ClientSampleId :

W-41

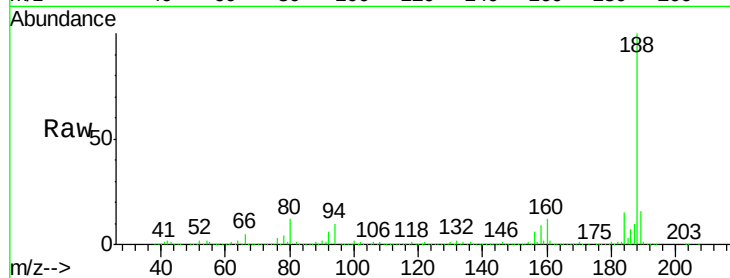
Tgt Ion:188 Resp: 794875

Ion Ratio Lower Upper

188 100

94 10.5 9.0 13.4

80 12.3 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

1200000

1000000

800000

600000

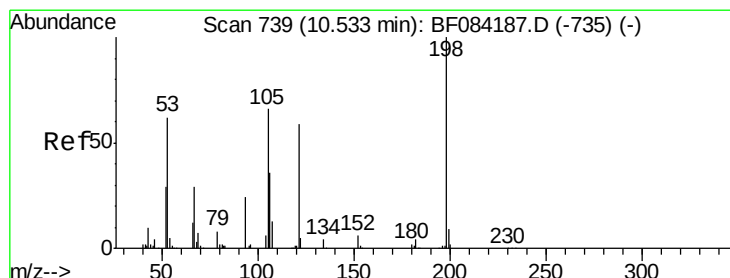
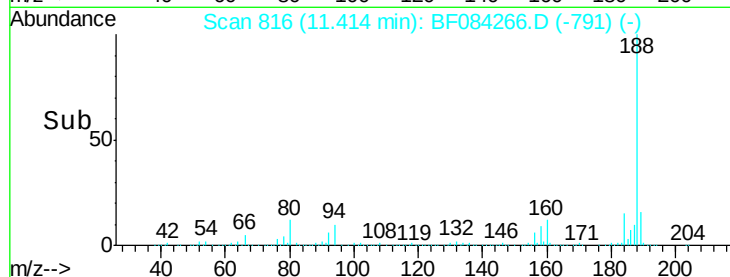
400000

200000

0

11.35 11.40 11.45

Time-->



#64

4,6-Dinitro-2-methylphenol

Concen: 6.68 ng

RT: 10.73 min Scan# 756

Delta R.T. 0.19 min

Lab File: BF084266.D

Acq: 5 Jan 2016 5:31

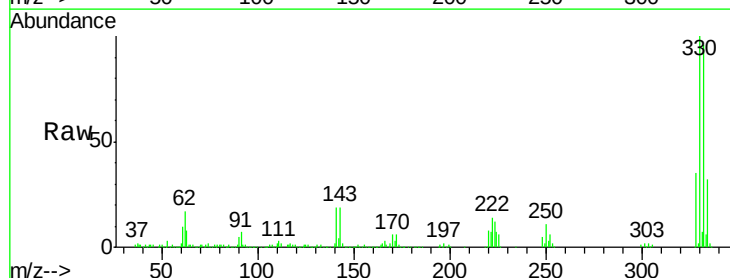
Tgt Ion:198 Resp: 1693

Ion Ratio Lower Upper

198 100

51 209.3 18.9 58.9#

105 148.8 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

40000

30000

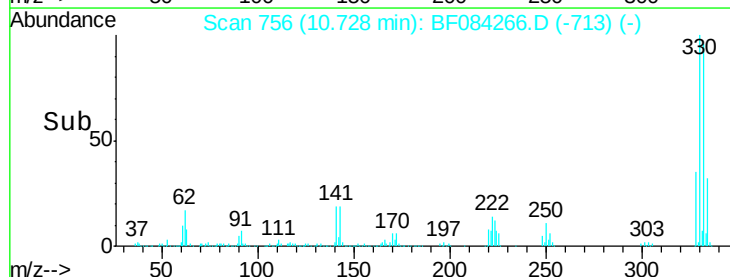
20000

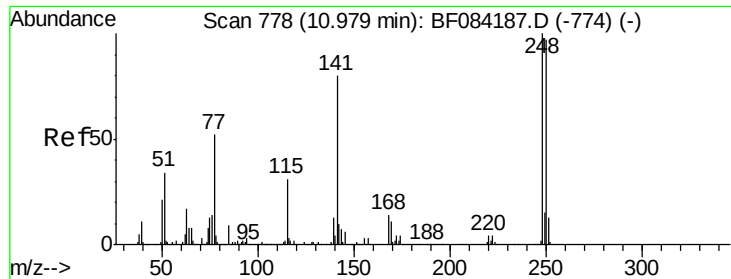
10000

0

10.70 10.75

Time-->

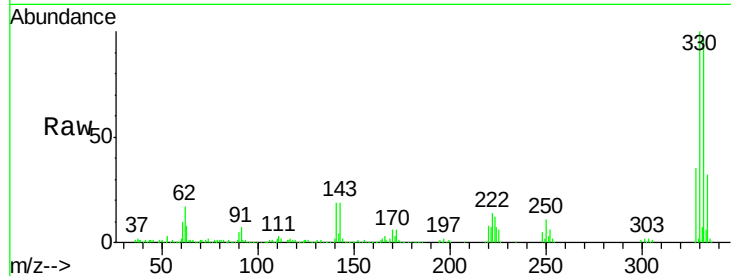




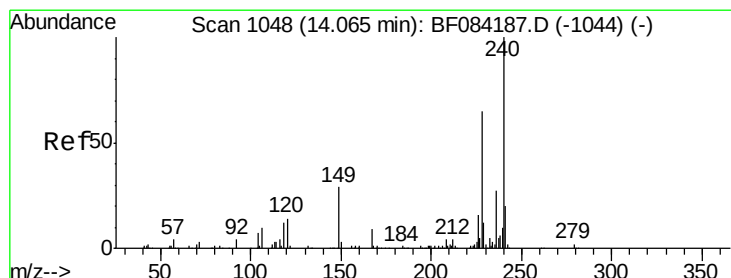
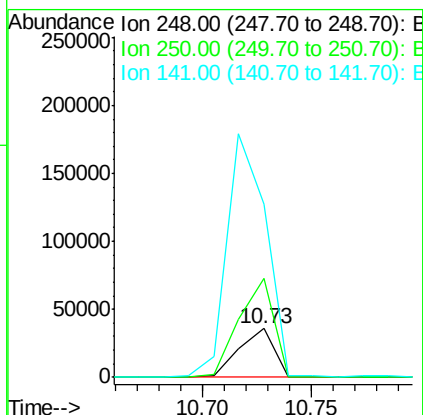
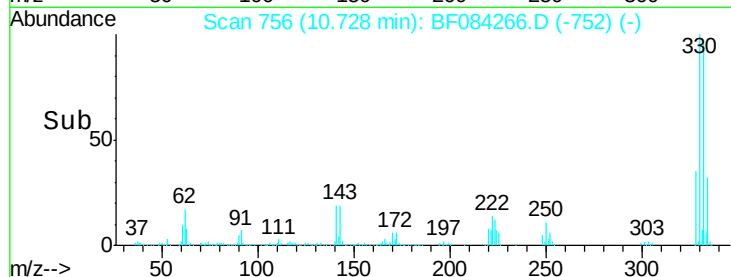
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.74 ng  
 RT: 10.73 min Scan# 756  
 Delta R.T. -0.25 min  
 Lab File: BF084266.D  
 Acq: 5 Jan 2016 5:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-41

Tgt Ion:248 Resp: 40556  
 Ion Ratio Lower Upper  
 248 100  
 250 202.3 78.4 117.6#  
 141 355.7 44.0 66.0#

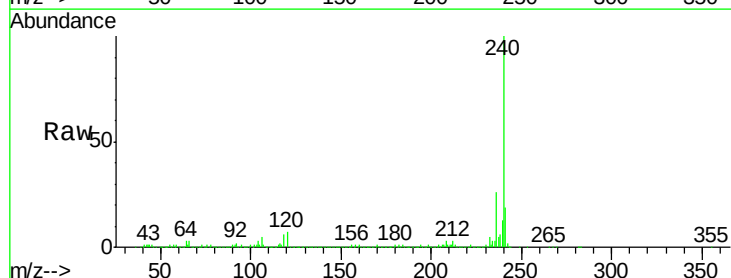


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

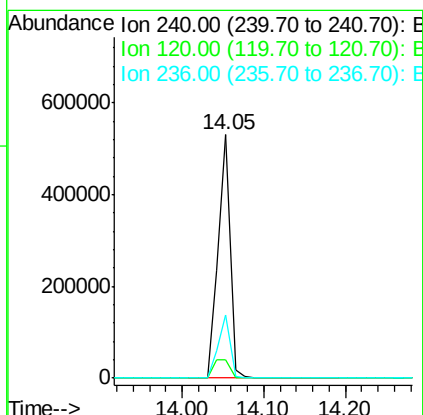
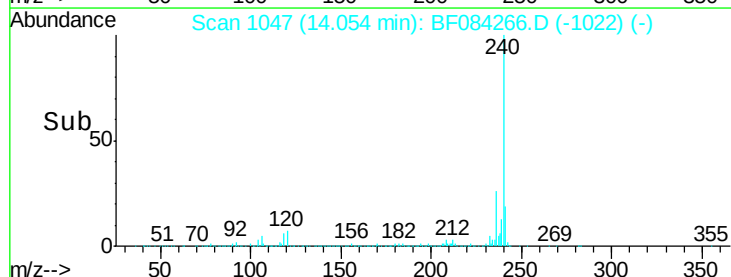


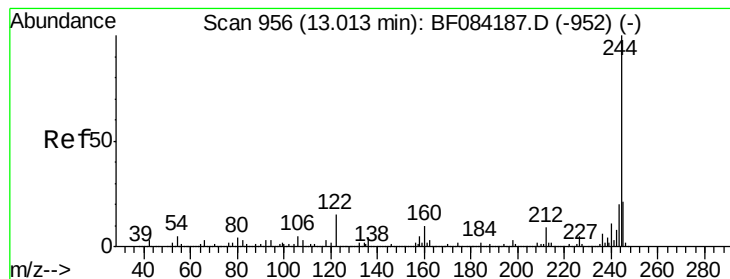
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.05 min Scan# 1047  
 Delta R.T. -0.01 min  
 Lab File: BF084266.D  
 Acq: 5 Jan 2016 5:31

Tgt Ion:240 Resp: 548682  
 Ion Ratio Lower Upper  
 240 100  
 120 7.4 9.5 14.3#  
 236 25.9 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: 67.49 ng

RT: 13.00 min Scan# 955

Delta R.T. -0.01 min

Lab File: BF084266.D

Acq: 5 Jan 2016 5:31

Instrument :

BNA\_F

ClientSampleId :

W-41

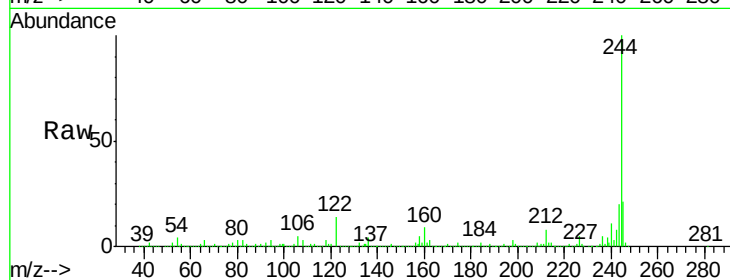
Tgt Ion:244 Resp: 1659005

Ion Ratio Lower Upper

244 100

212 7.8 5.7 8.5

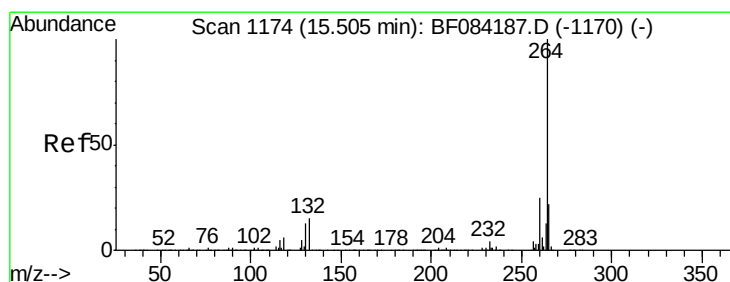
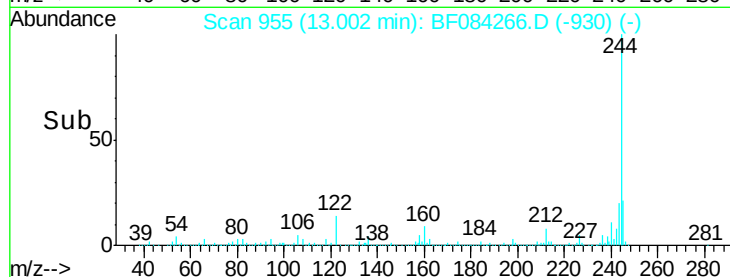
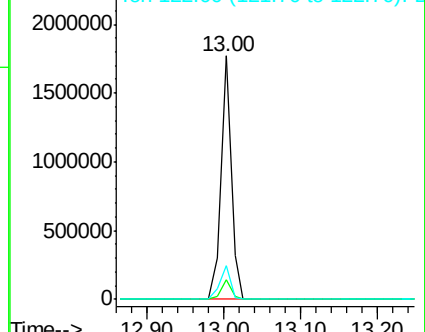
122 13.7 7.4 11.0#



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: 15.49 min Scan# 1173

Delta R.T. -0.01 min

Lab File: BF084266.D

Acq: 5 Jan 2016 5:31

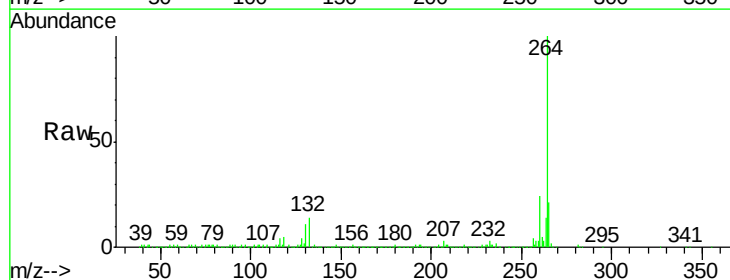
Tgt Ion:264 Resp: 532494

Ion Ratio Lower Upper

264 100

260 24.0 19.4 29.2

265 21.0 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

