

Data Path : V:\HPCHEM1\BNA F\DATA\BF121515\  
 Data File : BF083837.D  
 Acq On : 16 Dec 2015 2:18  
 Operator : UM/IZ  
 Sample : G4797-03  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TPMW3

Quant Time: Dec 16 05:44:03 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 14 01:30:12 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.90  | 152  | 93792    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.19  | 136  | 354698   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.94  | 164  | 145163   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.43 | 188  | 236194   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 14.05 | 240  | 212376   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 15.49 | 264  | 146995   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.50  | 112  | 285191   | 49.05  | ng    | -0.02    |
| 7) Phenol-d6                | 6.52  | 99   | 203557   | 27.65  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.46  | 82   | 449732   | 70.94  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.73 | 330  | 157672   | 106.59 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.26  | 172  | 837280   | 84.29  | ng    | -0.02    |
| 78) Terphenyl-d14           | 13.00 | 244  | 645328   | 65.36  | ng    | -0.02    |

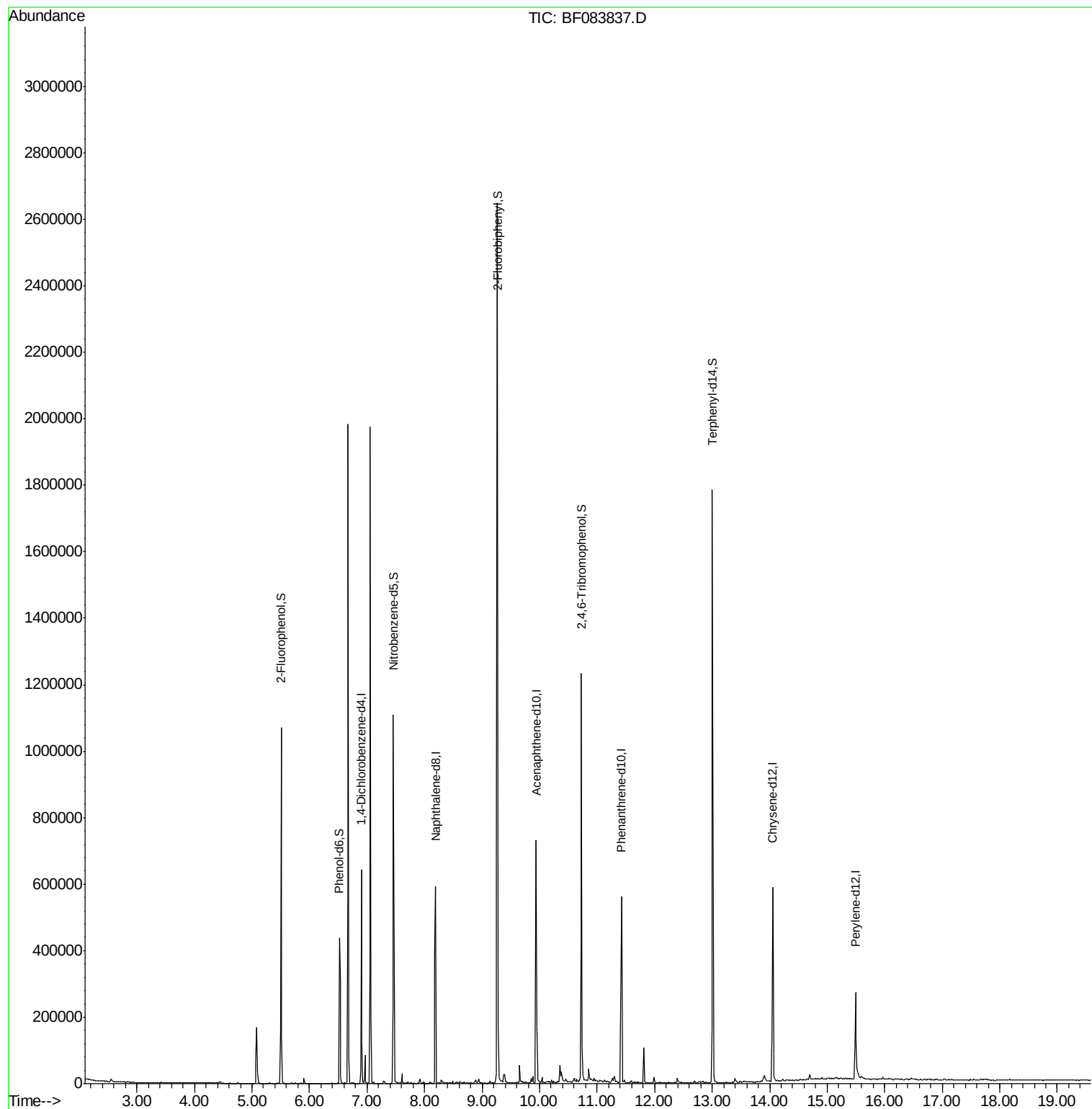
Target Compounds Qvalue

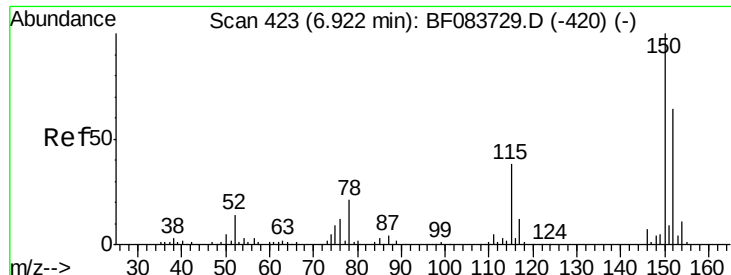
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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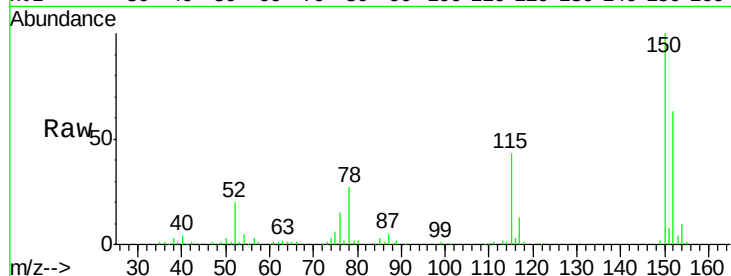




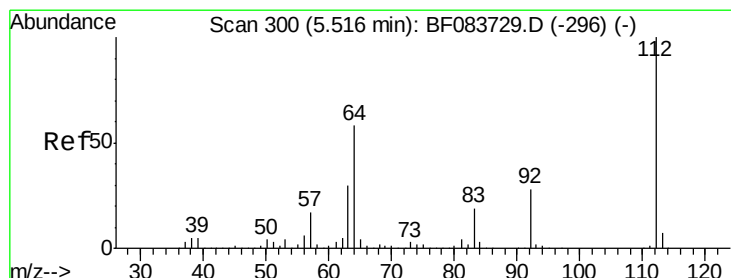
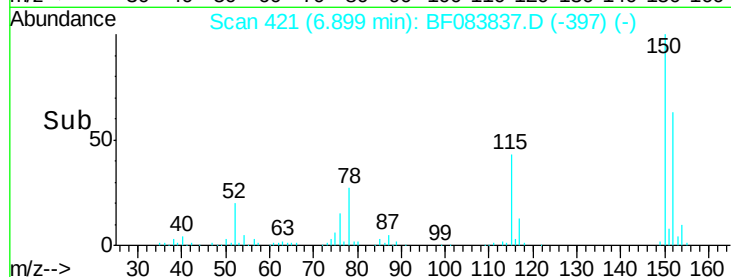
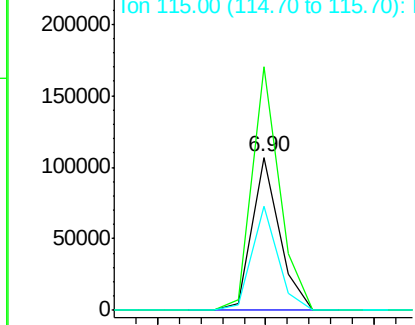
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.90 min Scan# 421  
 Delta R.T. -0.02 min  
 Lab File: BF083837.D  
 Acq: 16 Dec 2015 2:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TPMW3

Tot Ion:152 Resp: 93792  
 Ion Ratio Lower Upper  
 152 100  
 150 159.2 126.5 189.7  
 115 67.7 52.3 78.5

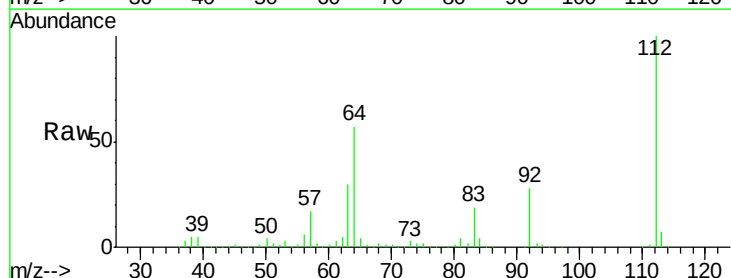


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

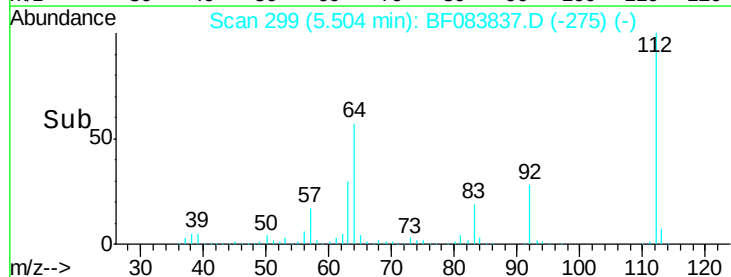
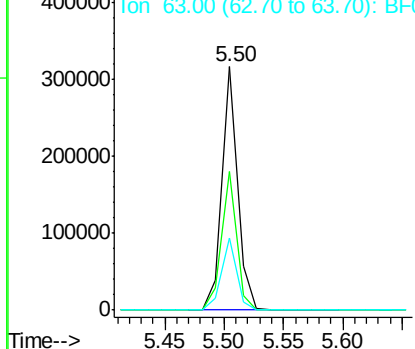


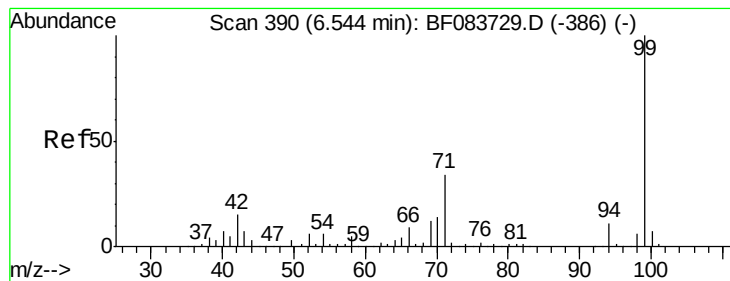
#5  
 2-Fluorophenol  
 Concen: 49.05 ng  
 RT: 5.50 min Scan# 299  
 Delta R.T. -0.02 min  
 Lab File: BF083837.D  
 Acq: 16 Dec 2015 2:18

Tgt Ion:112 Resp: 285191  
 Ion Ratio Lower Upper  
 112 100  
 64 56.8 50.5 75.7  
 63 29.7 25.8 38.6



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: 27.65 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF083837.D

Acq: 16 Dec 2015 2:18

Instrument :

BNA\_F

ClientSampleId :

TPMW3

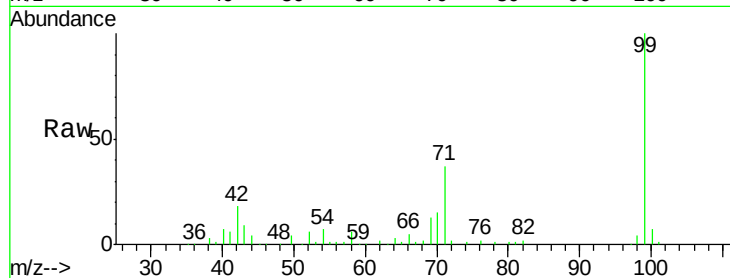
Tot Ion: 99 Resp: 203557

Ion Ratio Lower Upper

99 100

42 17.7 17.3 25.9

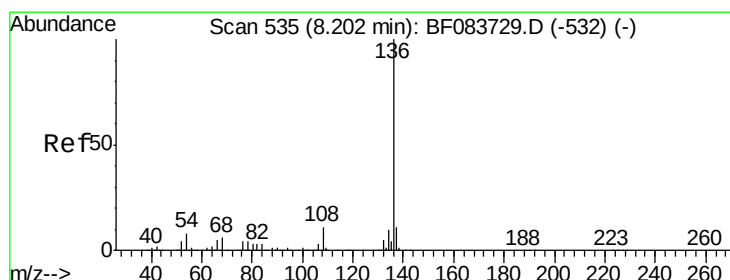
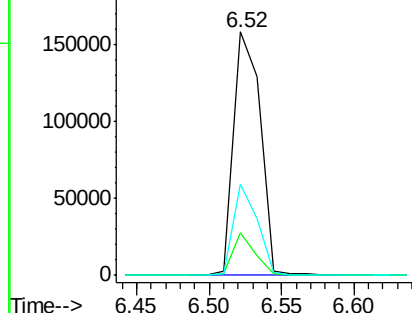
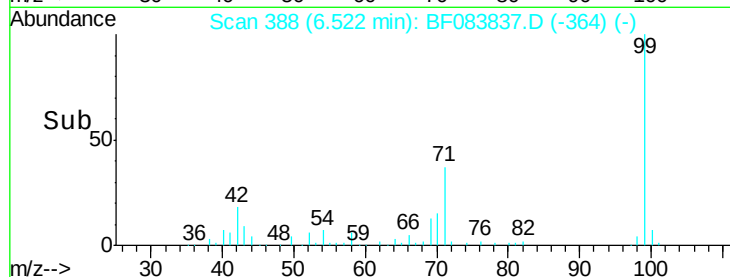
71 37.3 26.6 40.0



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: 8.19 min Scan# 534

Delta R.T. -0.02 min

Lab File: BF083837.D

Acq: 16 Dec 2015 2:18

Tgt Ion: 136 Resp: 354698

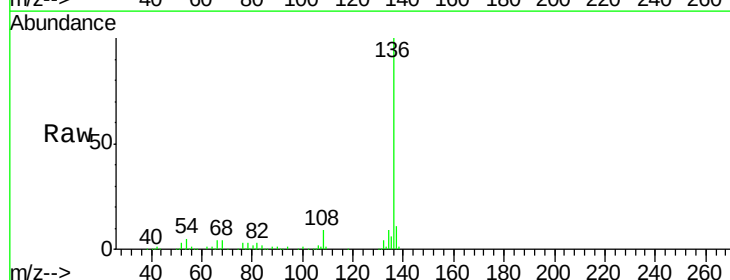
Ion Ratio Lower Upper

136 100

137 10.5 8.7 13.1

54 4.8 7.8 11.6#

68 4.2 5.7 8.5#

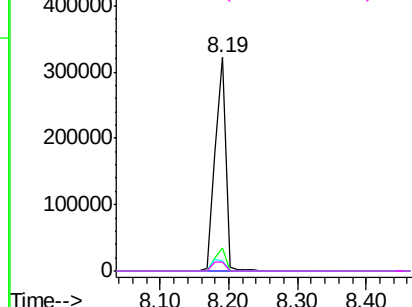
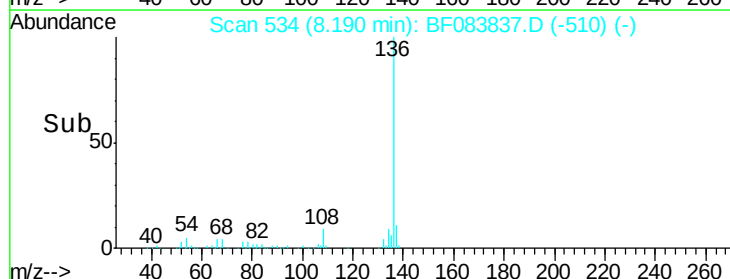


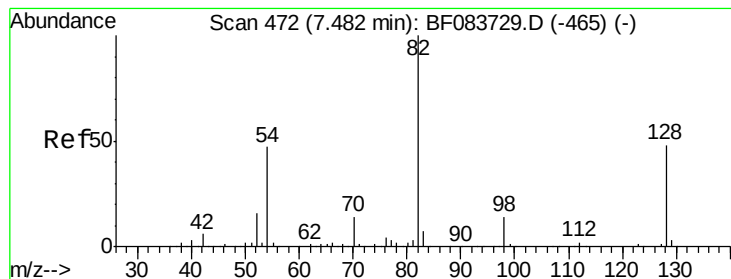
Abundance Ion 136.00 (135.70 to 136.70): E

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: 70.94 ng

RT: 7.46 min Scan# 470

Delta R.T. -0.02 min

Lab File: BF083837.D

Acq: 16 Dec 2015 2:18

Instrument :

BNA\_F

ClientSampleId :

TPMW3

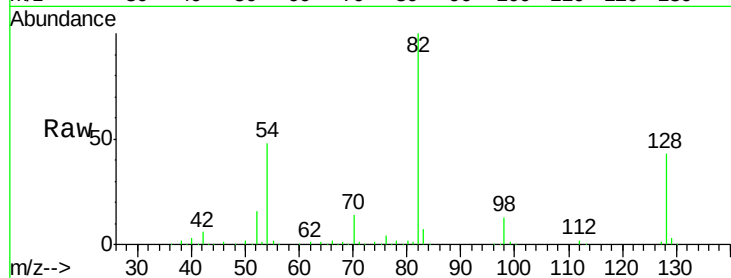
Tot Ion: 82 Resp: 449732

Ion Ratio Lower Upper

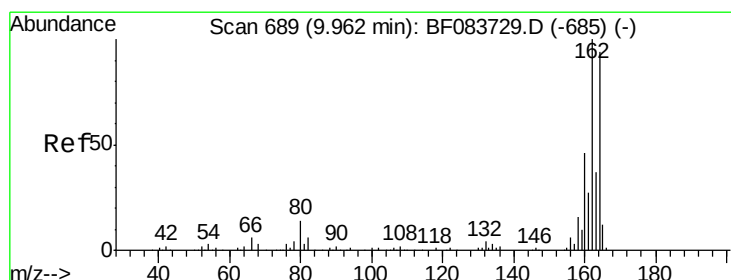
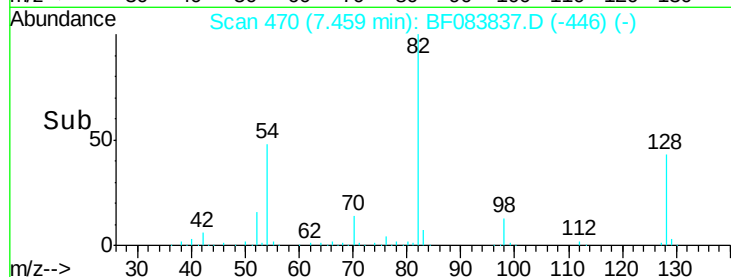
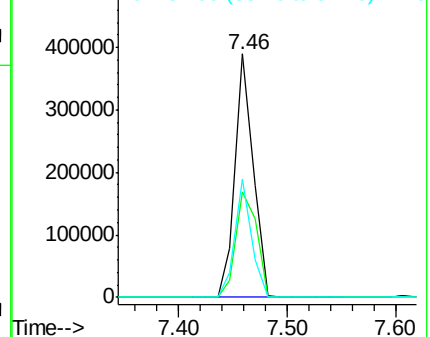
82 100

128 43.4 30.7 46.1

54 48.5 42.5 63.7



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): B  
Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.02 min

Lab File: BF083837.D

Acq: 16 Dec 2015 2:18

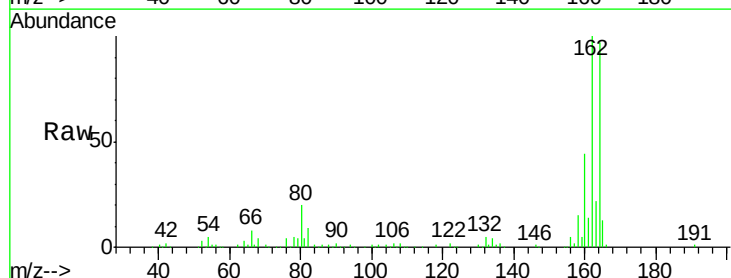
Tgt Ion: 164 Resp: 145163

Ion Ratio Lower Upper

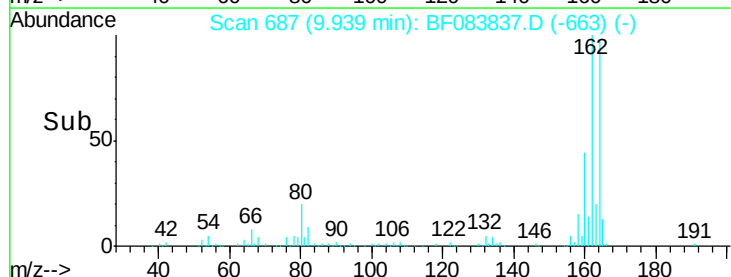
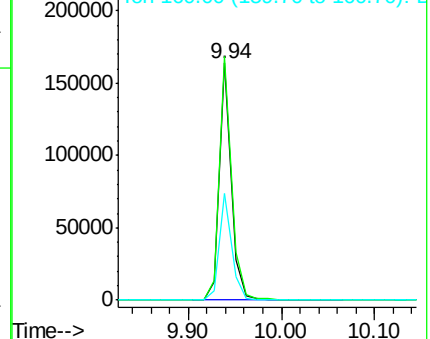
164 100

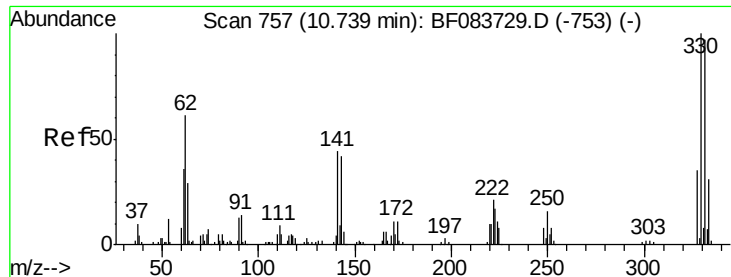
162 102.9 78.8 118.2

160 45.0 33.4 50.2



Abundance Ion 164.00 (163.70 to 164.70): B  
Ion 162.00 (161.70 to 162.70): B  
Ion 160.00 (159.70 to 160.70): B

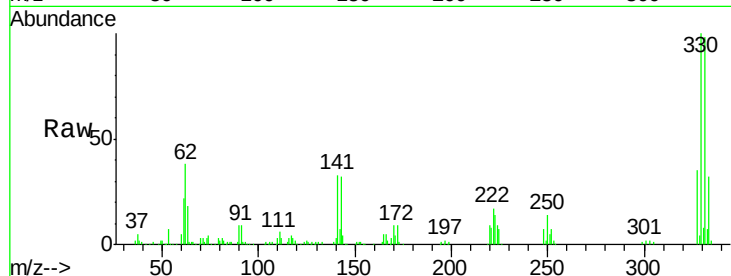




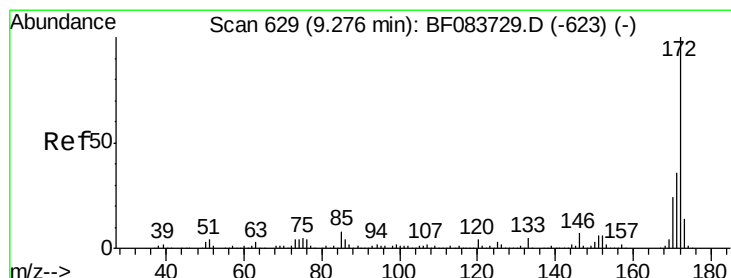
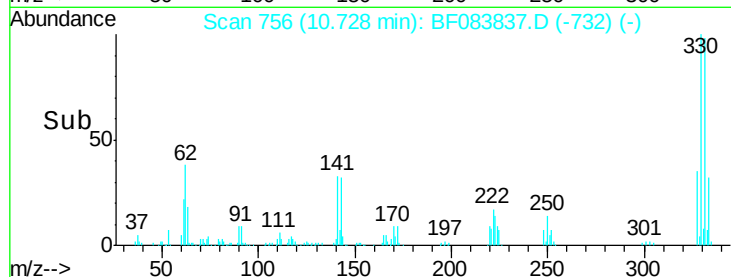
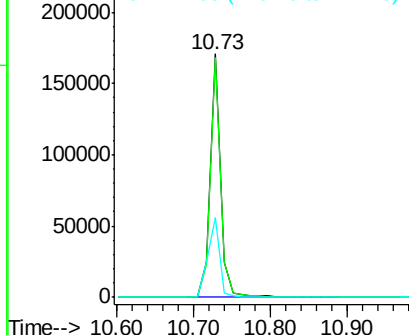
#41  
 2,4,6-Tribromophenol  
 Concen: 106.59 ng  
 RT: 10.73 min Scan# 756  
 Delta R.T. -0.02 min  
 Lab File: BF083837.D  
 Acq: 16 Dec 2015 2:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TPMW3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.7  | 0.0   | 0.0#  |
| 141     | 37.7  | 0.0   | 0.0#  |

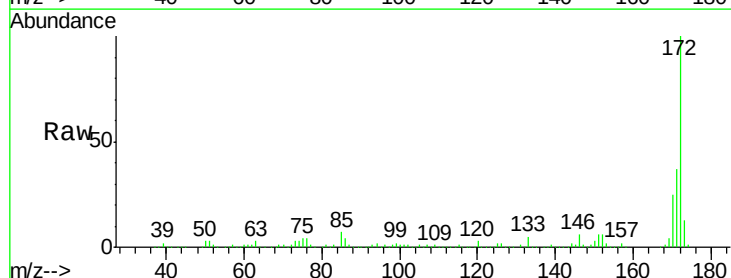


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

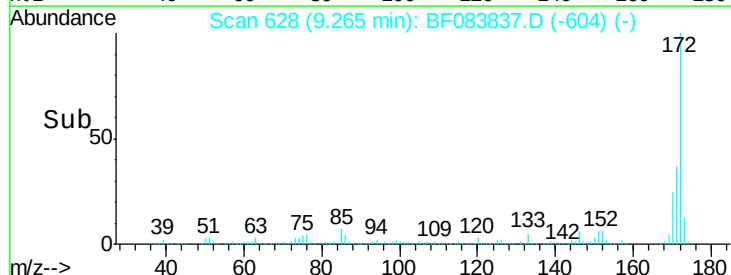
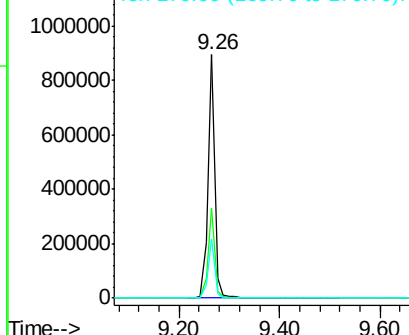


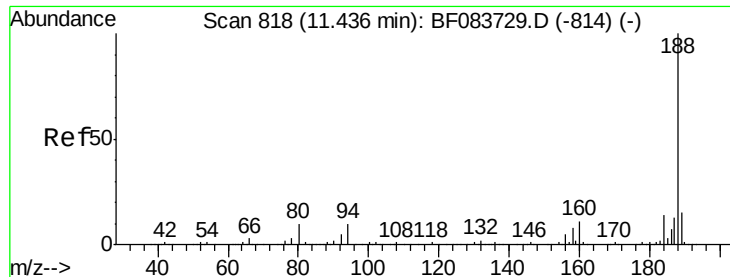
#44  
 2-Fluorobiphenyl  
 Concen: 84.29 ng  
 RT: 9.26 min Scan# 628  
 Delta R.T. -0.02 min  
 Lab File: BF083837.D  
 Acq: 16 Dec 2015 2:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.1  | 28.6  | 42.8  |
| 170     | 24.6  | 19.4  | 29.0  |



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

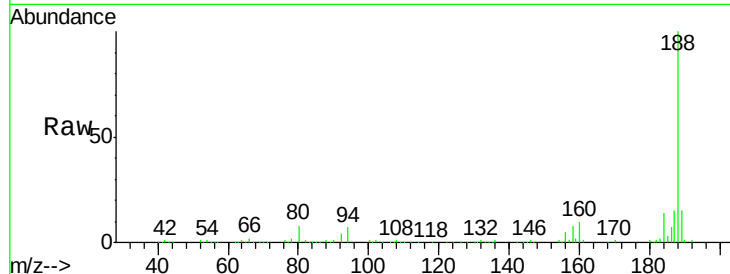




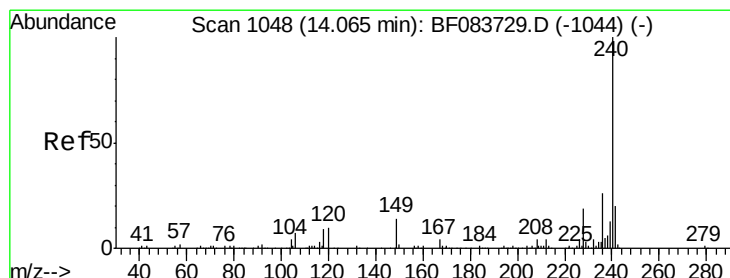
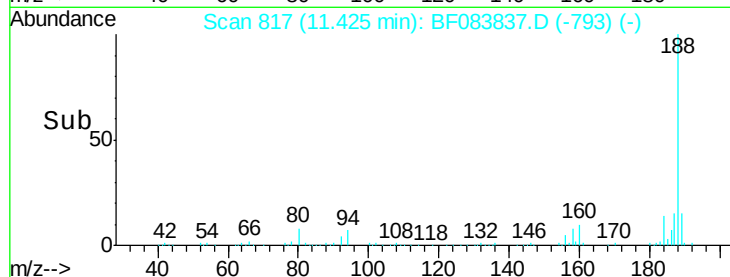
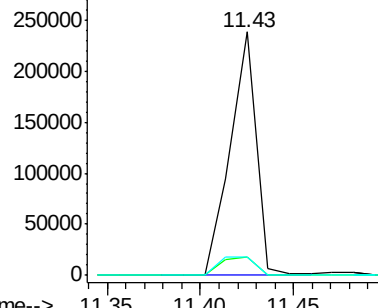
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.43 min Scan# 817  
Delta R.T. -0.02 min  
Lab File: BF083837.D  
Acq: 16 Dec 2015 2:18

Instrument :  
BNA\_F  
ClientSampleId :  
TPMW3

Tot Ion:188 Resp: 236194  
Ion Ratio Lower Upper  
188 100  
94 7.4 9.4 14.2#  
80 7.6 10.6 16.0#

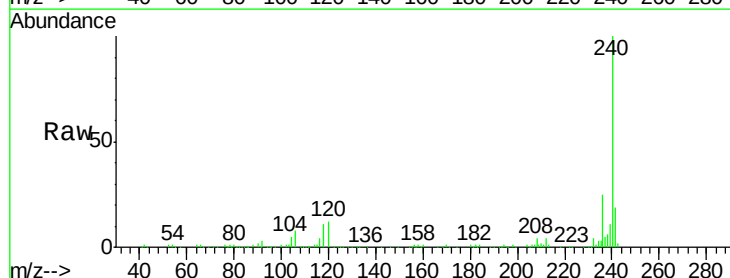


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

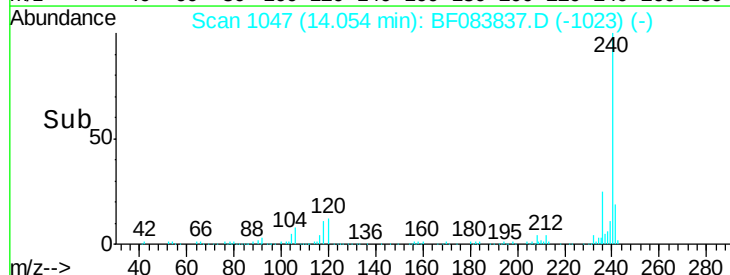
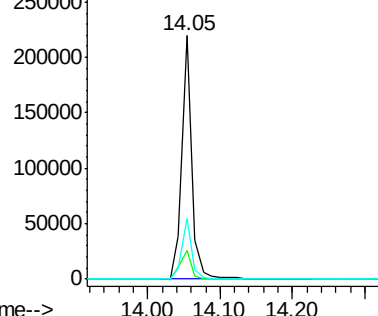


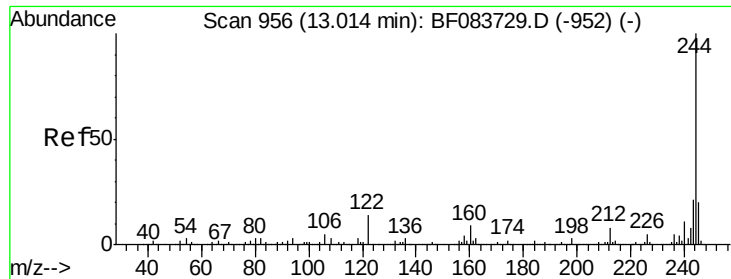
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.05 min Scan# 1047  
Delta R.T. -0.02 min  
Lab File: BF083837.D  
Acq: 16 Dec 2015 2:18

Tgt Ion:240 Resp: 212376  
Ion Ratio Lower Upper  
240 100  
120 11.7 8.1 12.1  
236 25.1 20.8 31.2



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

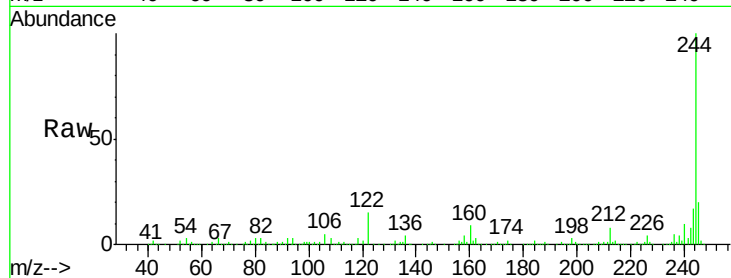




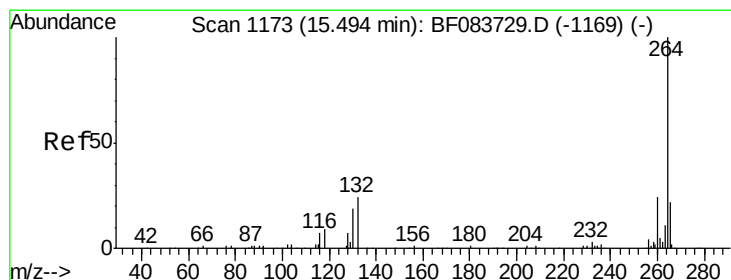
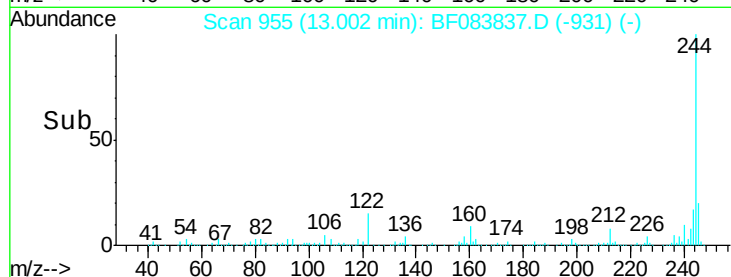
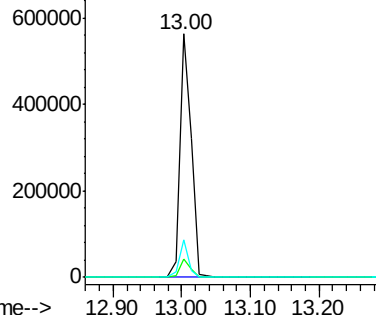
#78  
 Terphenyl-d14  
 Concen: 65.36 ng  
 RT: 13.00 min Scan# 955  
 Delta R.T. -0.02 min  
 Lab File: BF083837.D  
 Acq: 16 Dec 2015 2:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TPMW3

Tot Ion:244 Resp: 645328  
 Ion Ratio Lower Upper  
 244 100  
 212 7.5 6.1 9.1  
 122 15.3 11.0 16.6

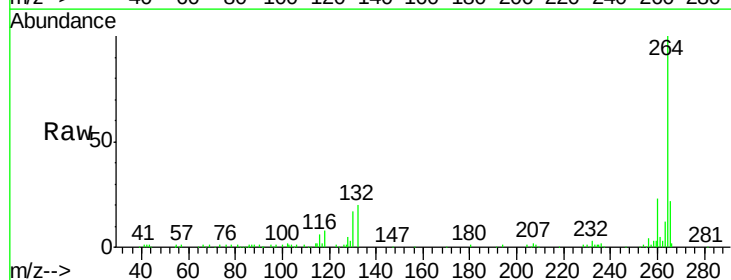


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.49 min Scan# 1173  
 Delta R.T. -0.01 min  
 Lab File: BF083837.D  
 Acq: 16 Dec 2015 2:18

Tgt Ion:264 Resp: 146995  
 Ion Ratio Lower Upper  
 264 100  
 260 23.5 19.4 29.0  
 265 21.7 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

