

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
 Data File : BF086248.D  
 Acq On : 16 Apr 2016 7:00  
 Operator : UM/SJ  
 Sample : PB89850BL  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB89850BL

Quant Time: Apr 18 03:56:07 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF041516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 15 15:56:31 2016  
 Response via : Initial Calibration

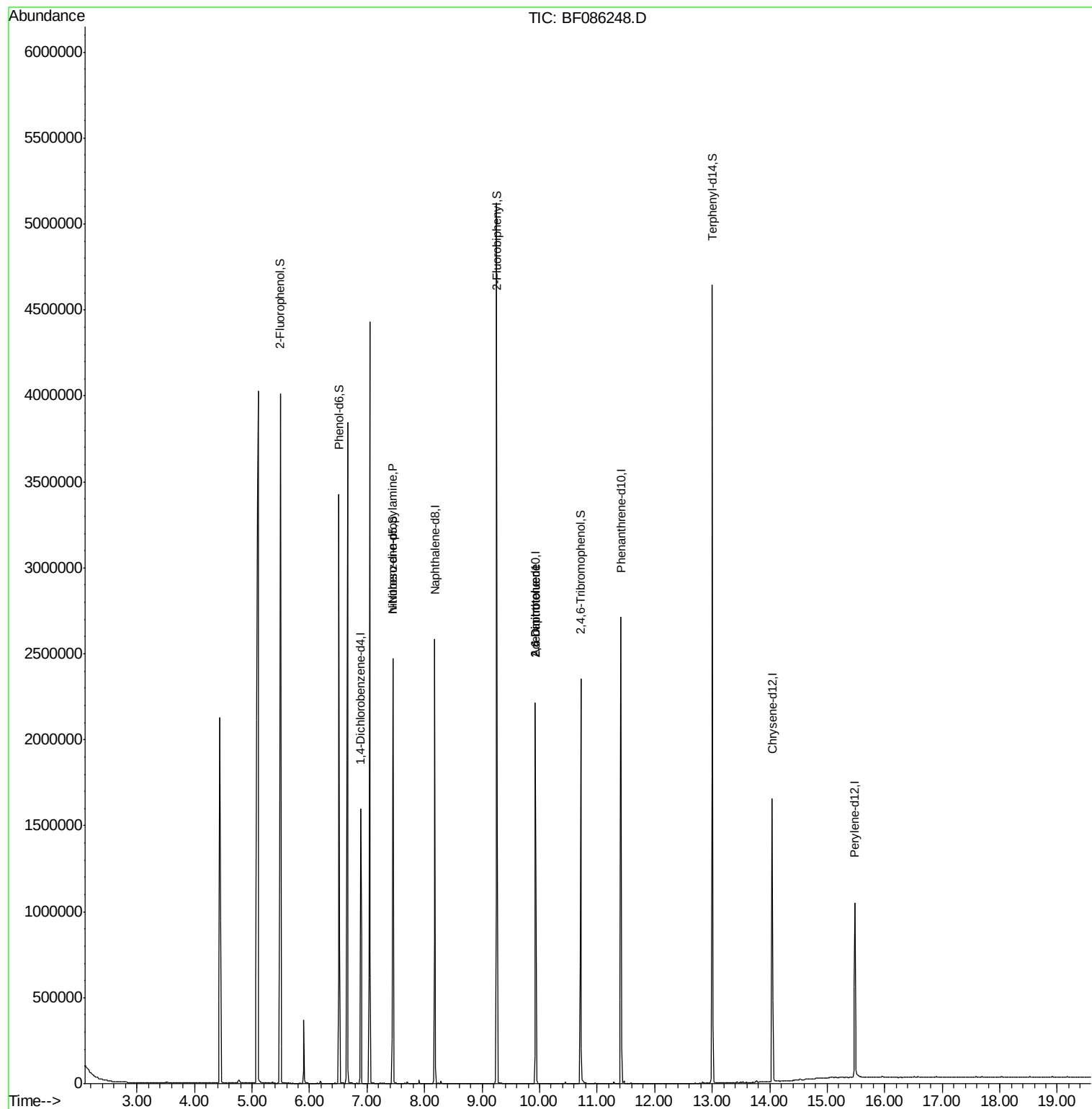
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.89  | 152  | 279888   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.18  | 136  | 1201148  | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.93  | 164  | 504628   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.41 | 188  | 895710   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 14.04 | 240  | 541191   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.48 | 264  | 470812   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 1072469  | 62.78     | ng    | 0.01     |
| 7) Phenol-d6                   | 6.51  | 99   | 1225347  | 57.35     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.45  | 82   | 1241502  | 59.62     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.72 | 330  | 243145   | 60.00     | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.25  | 172  | 1745909  | 63.84     | ng    | -0.01    |
| 78) Terphenyl-d14              | 13.00 | 244  | 1416444  | 65.81     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 163455   | 11.95     | ng    | # 80     |
| 22) Acetophenone               | 7.05  | 105  | 251      | Below Cal | #     | 1        |
| 50) 2,6-Dinitrotoluene         | 9.93  | 165  | 66024    | 8.13      | ng    | # 32     |
| 56) 2,4-Dinitrotoluene         | 9.93  | 165  | 66029    | 6.35      | ng    | # 31     |
| 57) Fluorene                   | 10.72 | 166  | 13983    | Below Cal | #     | 91       |
| 71) Anthracene                 | 11.48 | 178  | 217      | Below Cal | #     | 59       |
| 74) Fluoranthene               | 12.61 | 202  | 819      | Below Cal |       | 61       |

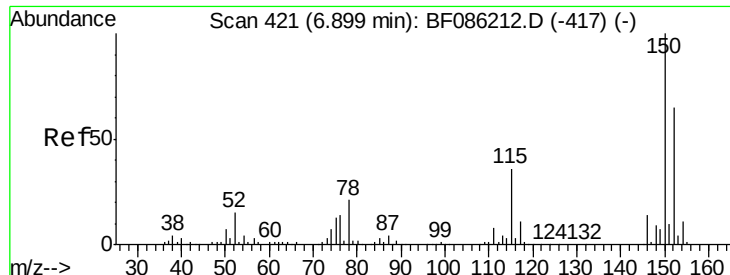
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Apr 15 15:56:31 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: BF086248.D

Acq: 16 Apr 2016 7:00

Instrument :

BNA\_F

ClientSampleId :

PB89850BL

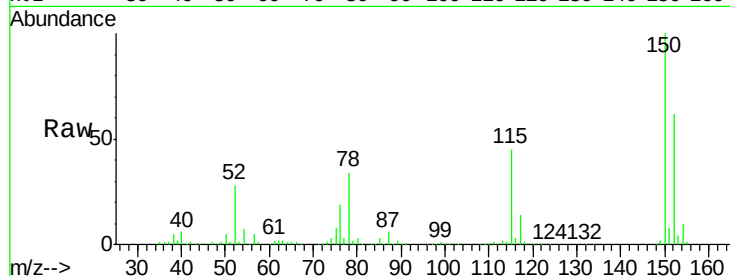
Tgt Ion:152 Resp: 279888

Ion Ratio Lower Upper

152 100

150 161.0 124.1 186.1

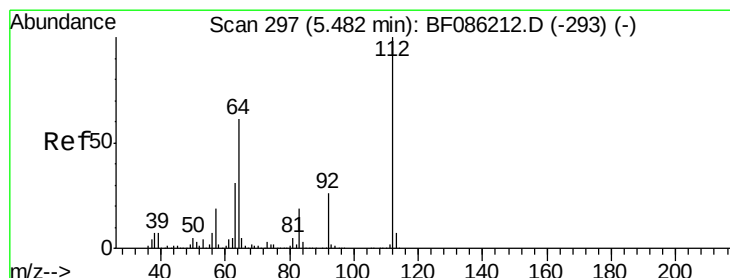
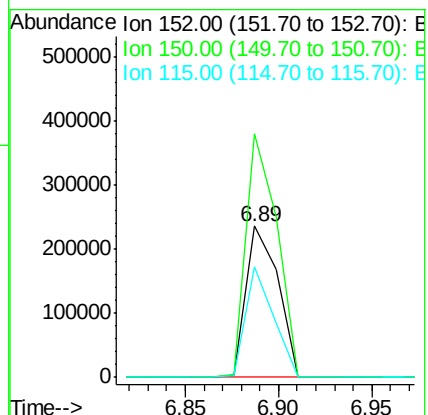
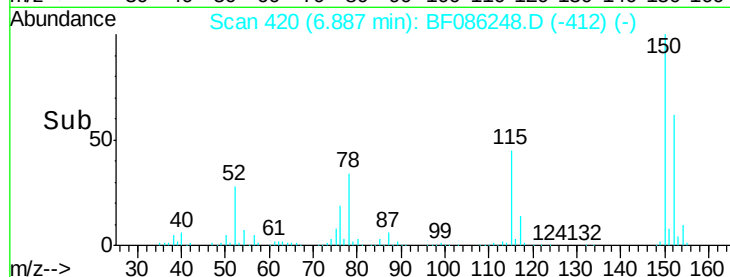
115 72.7 43.9 65.9#



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: 62.78 ng

RT: 5.49 min Scan# 298

Delta R.T. 0.01 min

Lab File: BF086248.D

Acq: 16 Apr 2016 7:00

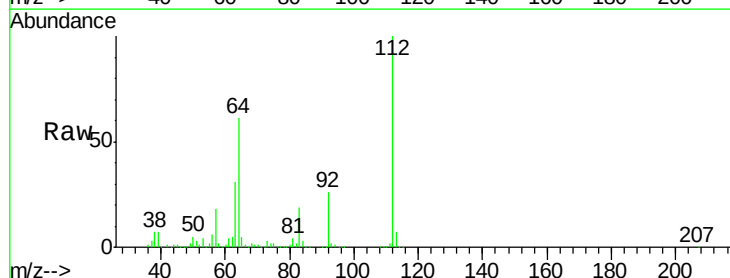
Tgt Ion:112 Resp: 1072469

Ion Ratio Lower Upper

112 100

64 61.0 48.1 72.1

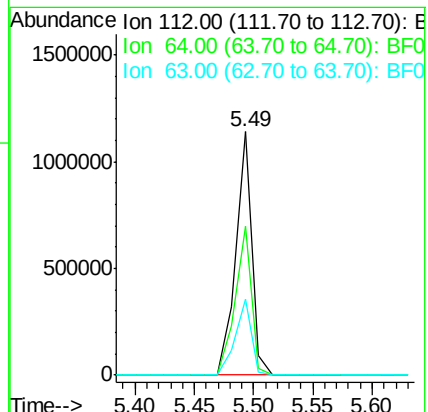
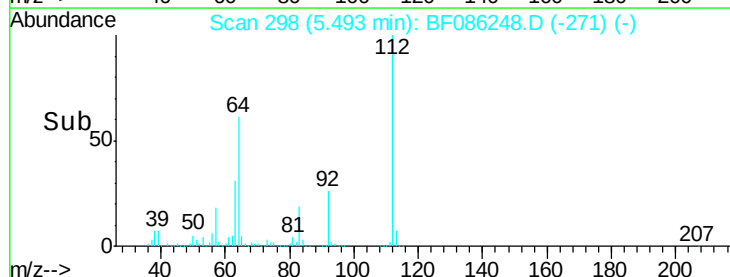
63 30.9 25.5 38.3

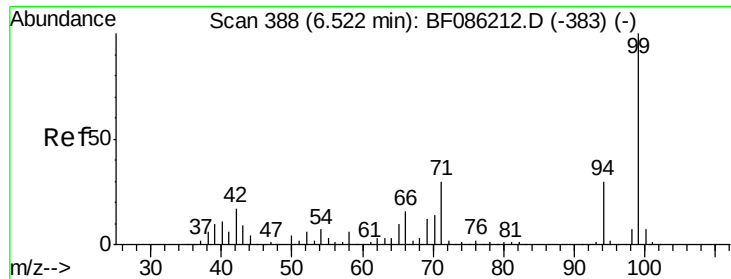


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 57.35 ng

RT: 6.51 min Scan# 387

Delta R.T. -0.01 min

Lab File: BF086248.D

Acq: 16 Apr 2016 7:00

Instrument :

BNA\_F

ClientSampleId :

PB89850BL

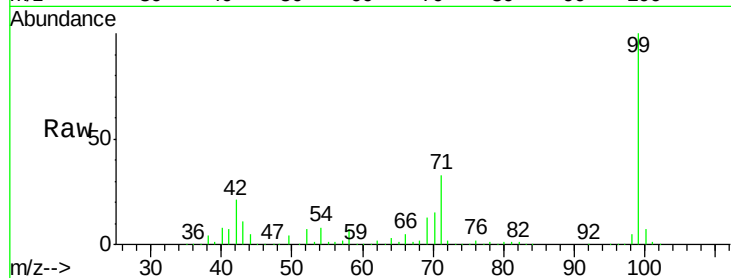
Tgt Ion: 99 Resp: 1225347

Ion Ratio Lower Upper

99 100

42 20.5 15.4 23.2

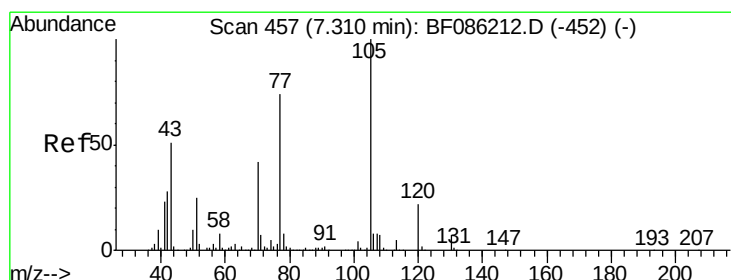
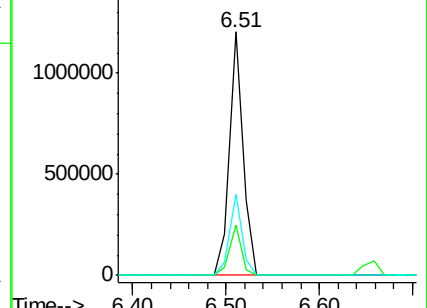
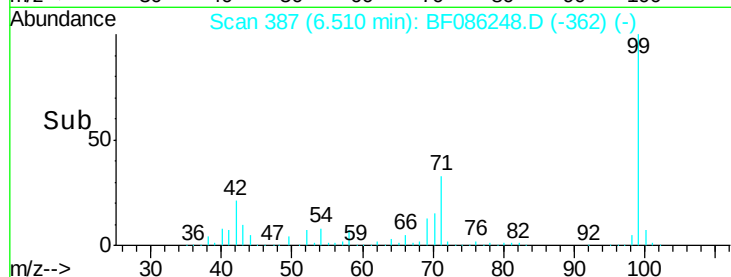
71 33.4 25.6 38.4



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: 11.95 ng

RT: 7.45 min Scan# 469

Delta R.T. 0.14 min

Lab File: BF086248.D

Acq: 16 Apr 2016 7:00

Tgt Ion: 70 Resp: 163455

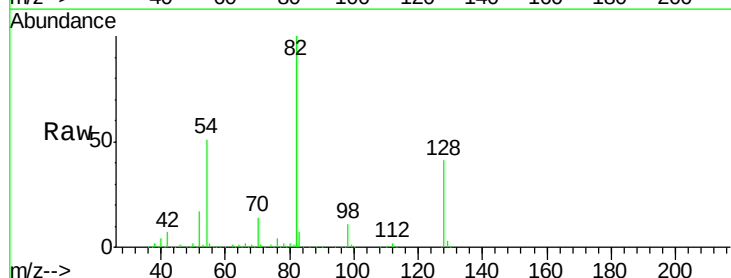
Ion Ratio Lower Upper

70 100

42 49.2 43.0 64.4

101 0.0 8.1 12.1#

130 2.1 20.1 30.1#

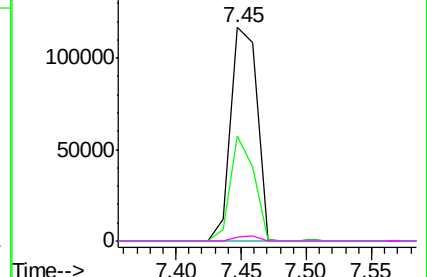
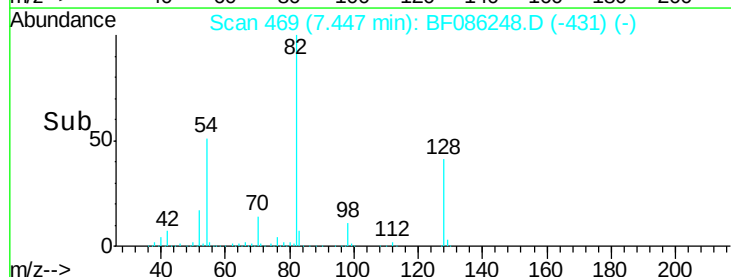


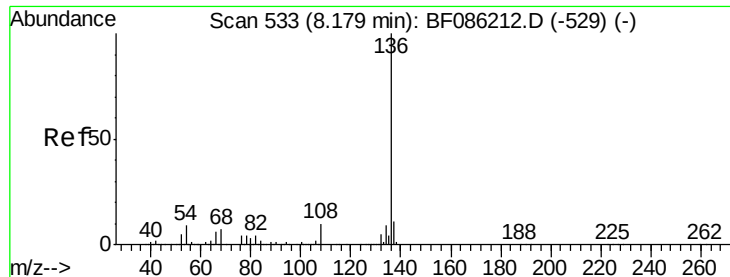
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

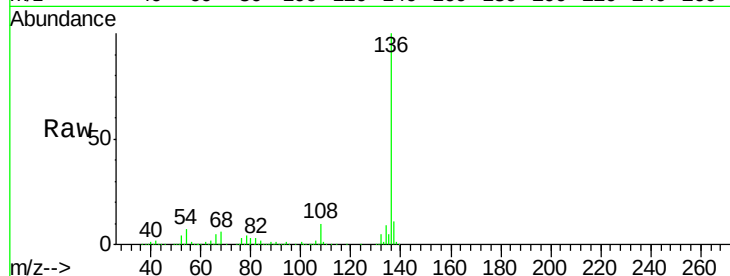




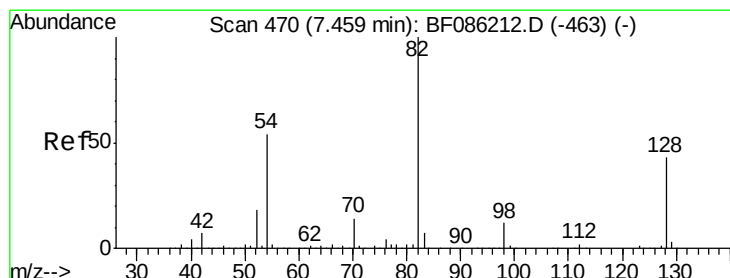
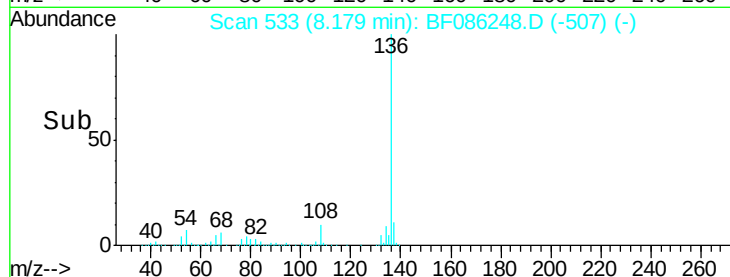
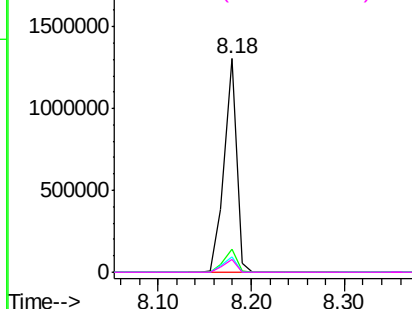
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.18 min Scan# 533  
Delta R.T. -0.00 min  
Lab File: BF086248.D  
Acq: 16 Apr 2016 7:00

Instrument :  
BNA\_F  
ClientSampleId :  
PB89850BL

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 136   | Resp: | 1201148 |
| Ion      | Ratio | Lower | Upper   |
| 136      | 100   |       |         |
| 137      | 11.0  | 9.1   | 13.7    |
| 54       | 7.3   | 7.3   | 10.9    |
| 68       | 6.2   | 5.7   | 8.5     |

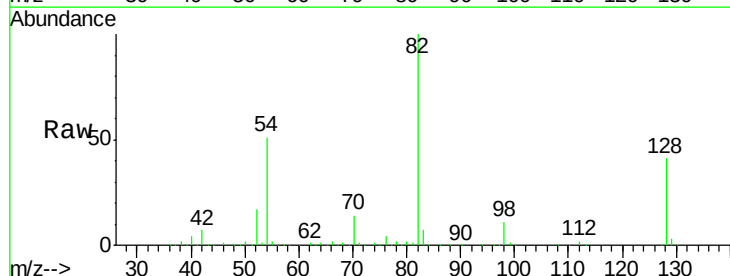


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

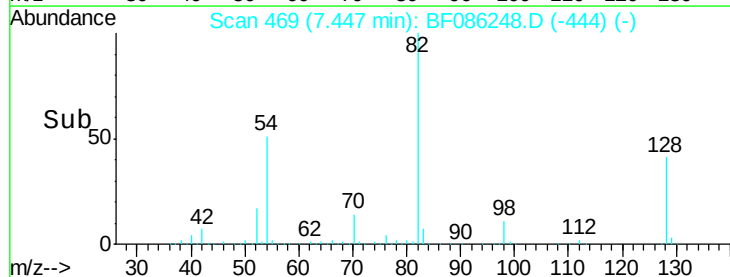
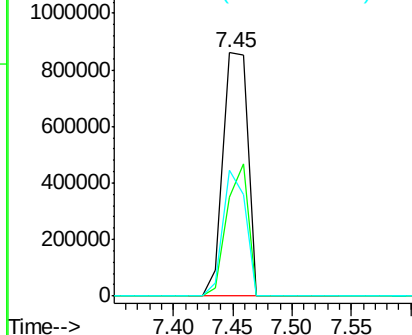


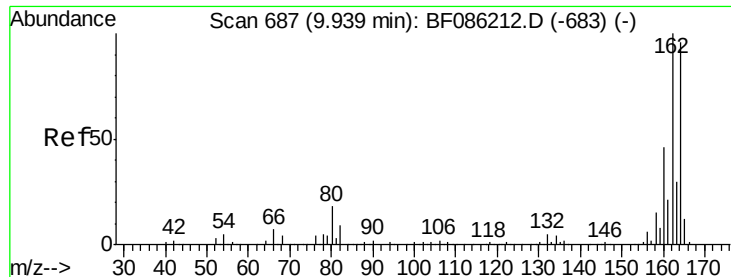
#23  
Nitrobenzene-d5  
Concen: 59.62 ng  
RT: 7.45 min Scan# 469  
Delta R.T. -0.01 min  
Lab File: BF086248.D  
Acq: 16 Apr 2016 7:00

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1241502 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 40.9  | 35.4  | 53.2    |
| 54       | 51.5  | 43.4  | 65.0    |



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: 9.93 min Scan# 686

Delta R.T. -0.01 min

Lab File: BF086248.D

Acq: 16 Apr 2016 7:00

Instrument :

BNA\_F

ClientSampleId :

PB89850BL

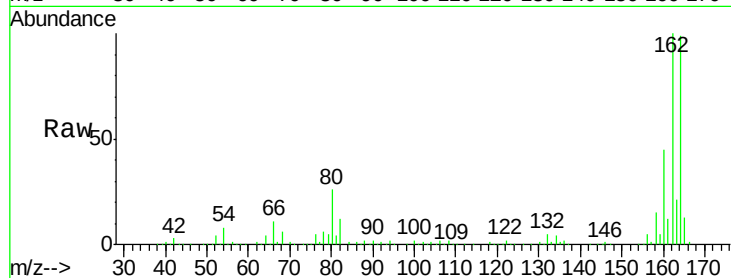
Tgt Ion:164 Resp: 504628

Ion Ratio Lower Upper

164 100

162 101.4 82.8 124.2

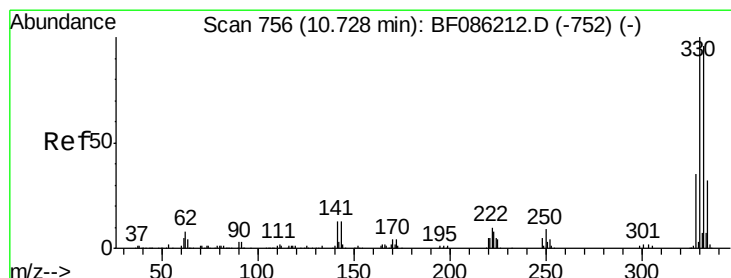
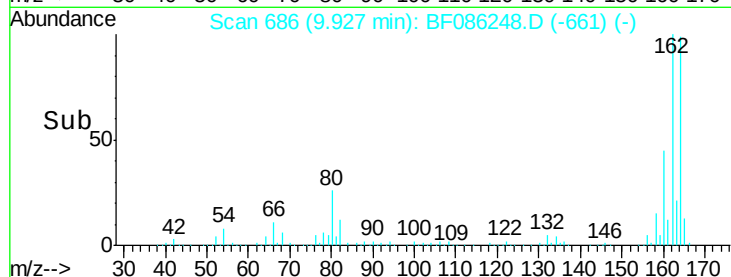
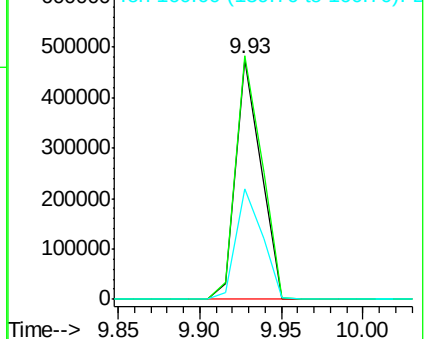
160 46.0 38.9 58.3



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: 60.00 ng

RT: 10.72 min Scan# 755

Delta R.T. -0.01 min

Lab File: BF086248.D

Acq: 16 Apr 2016 7:00

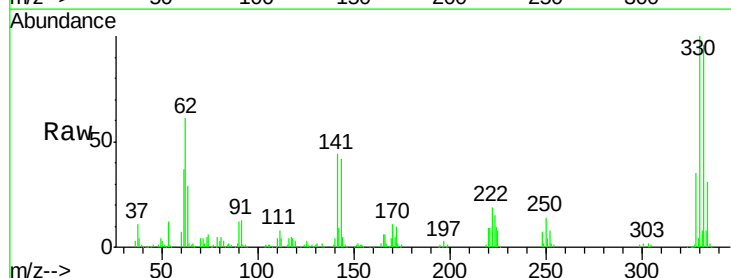
Tgt Ion:330 Resp: 243145

Ion Ratio Lower Upper

330 100

332 95.9 78.7 118.1

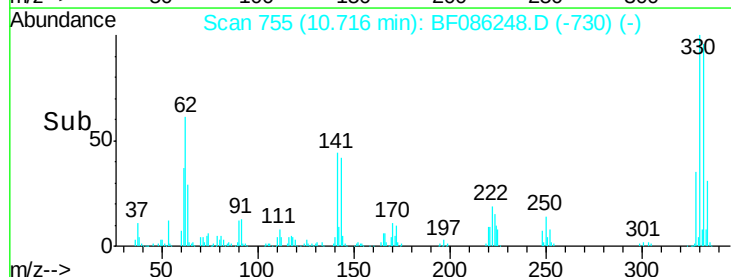
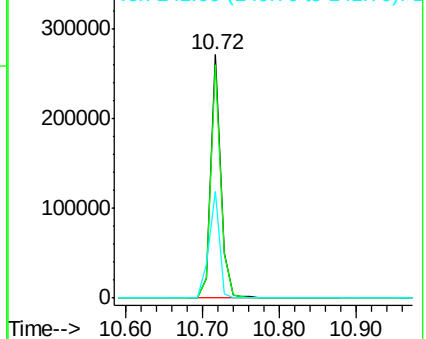
141 46.3 28.6 42.8#

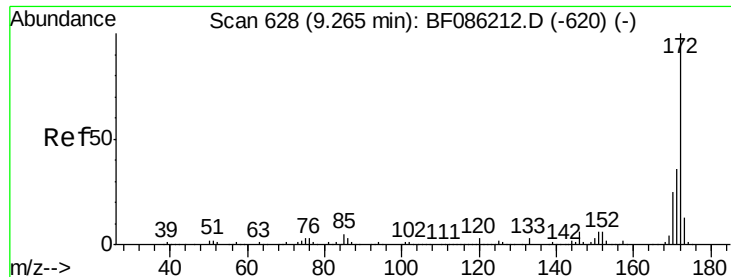


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

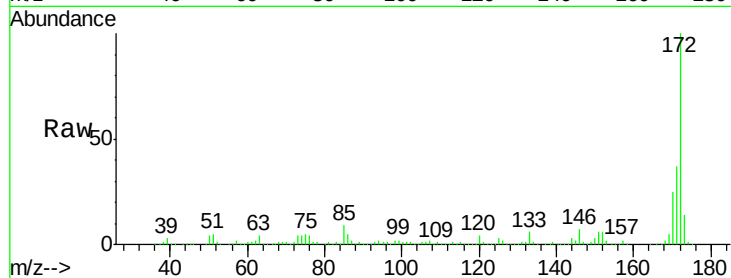




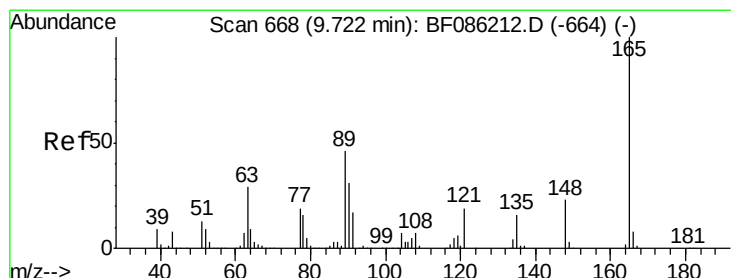
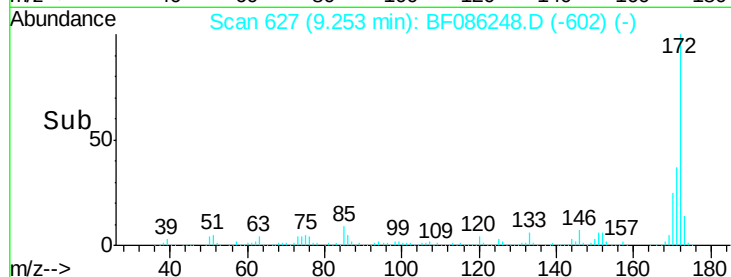
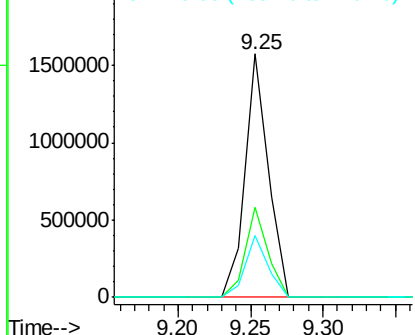
#44  
 2-Fluorobiphenyl  
 Concen: 63.84 ng  
 RT: 9.25 min Scan# 627  
 Delta R.T. -0.01 min  
 Lab File: BF086248.D  
 Acq: 16 Apr 2016 7:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB89850BL

Tgt Ion:172 Resp: 1745909  
 Ion Ratio Lower Upper  
 172 100  
 171 36.9 29.1 43.7  
 170 25.2 19.9 29.9

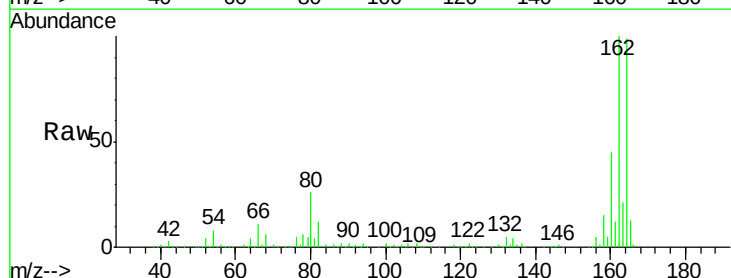


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

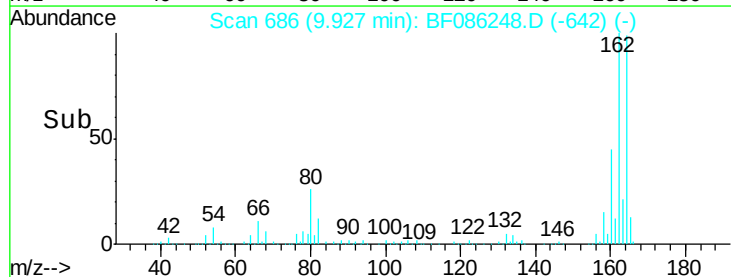
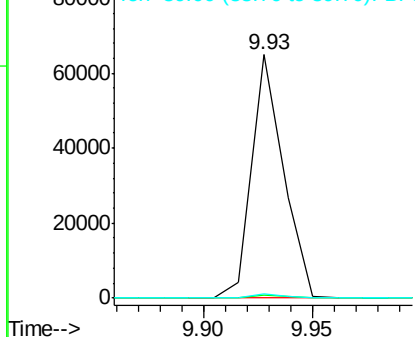


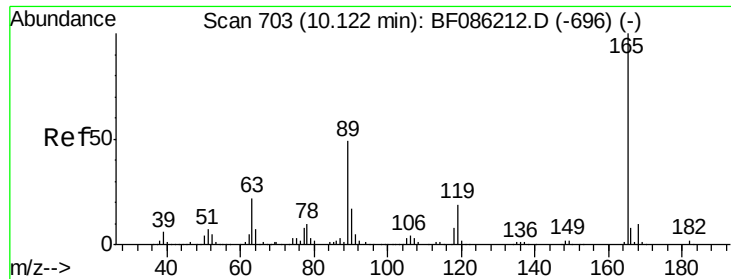
#50  
 2,6-Dinitrotoluene  
 Concen: 8.13 ng  
 RT: 9.93 min Scan# 686  
 Delta R.T. 0.21 min  
 Lab File: BF086248.D  
 Acq: 16 Apr 2016 7:00

Tgt Ion:165 Resp: 66024  
 Ion Ratio Lower Upper  
 165 100  
 63 1.2 35.1 52.7#  
 89 1.6 39.8 59.6#



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

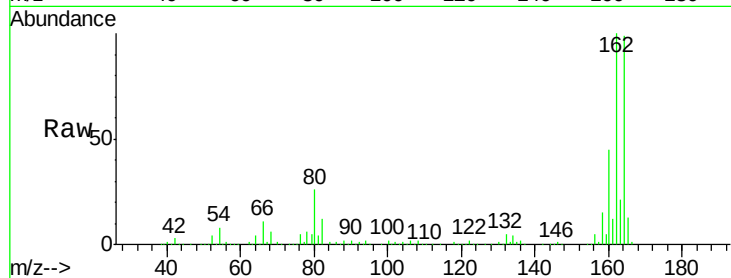




#56  
2,4-Dinitrotoluene  
Concen: 6.35 ng  
RT: 9.93 min Scan# 686  
Delta R.T. -0.19 min  
Lab File: BF086248.D  
Acq: 16 Apr 2016 7:00

Instrument :  
BNA\_F  
ClientSampleId :  
PB89850BL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 66029 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.2   | 26.6  | 40.0# |
| 89       | 1.6   | 49.5  | 74.3# |
| 182      | 0.0   | 1.9   | 2.9#  |

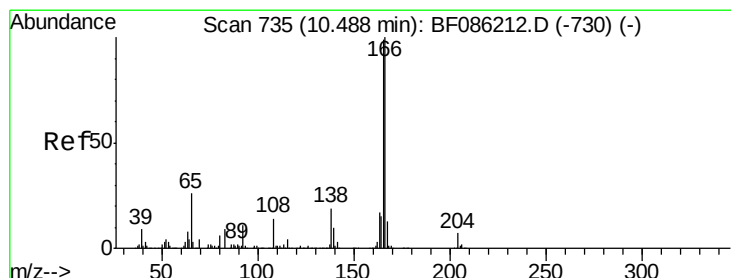
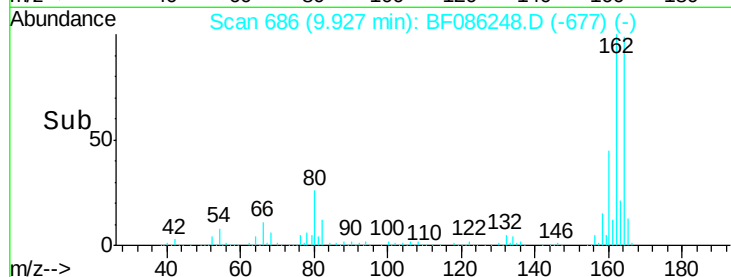
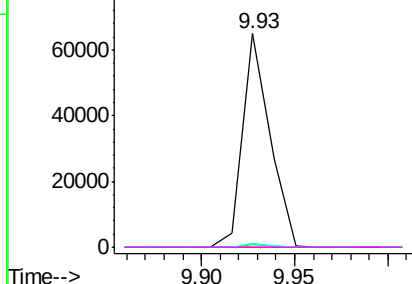


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

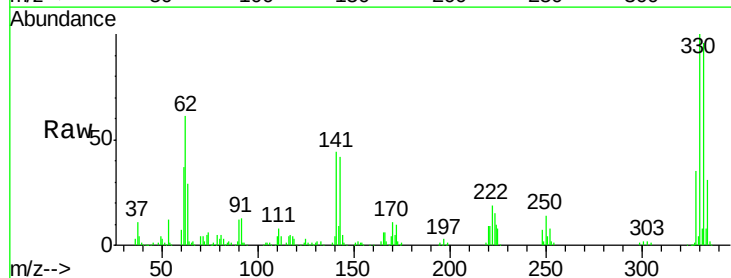
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57  
Fluorene  
Concen: Below Cal  
RT: 10.72 min Scan# 755  
Delta R.T. 0.23 min  
Lab File: BF086248.D  
Acq: 16 Apr 2016 7:00

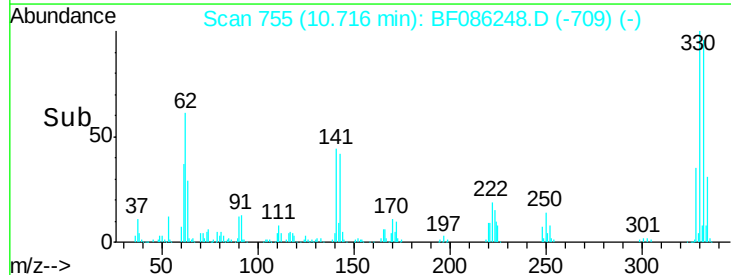
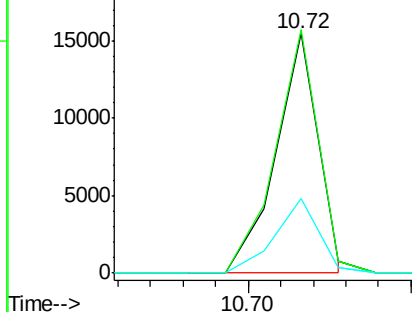
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 13983 |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 101.7 | 78.6  | 117.8 |
| 167      | 31.2  | 10.4  | 15.6# |



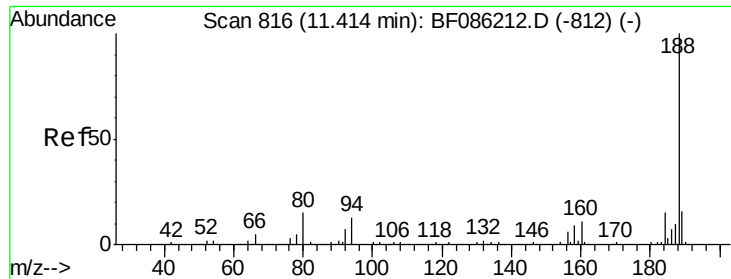
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



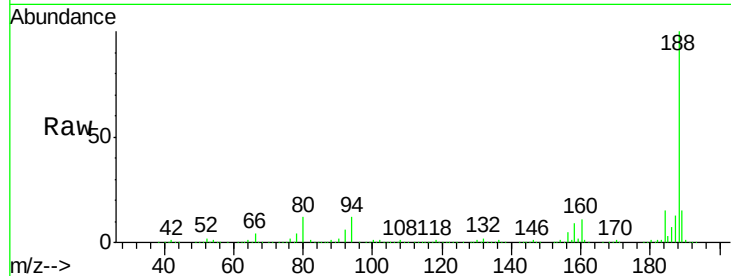




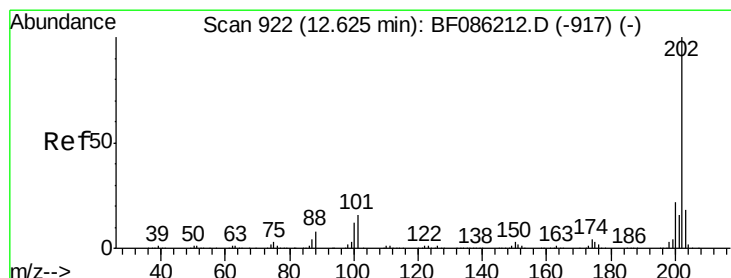
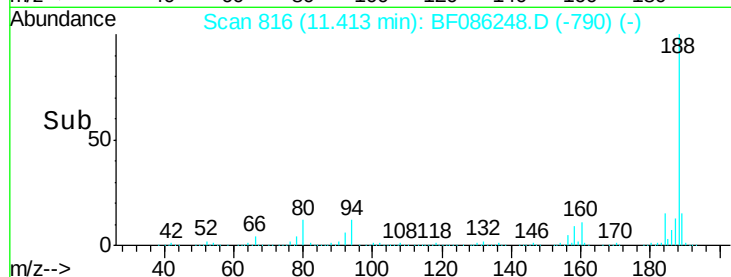
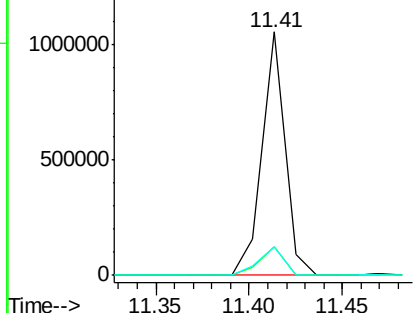
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.41 min Scan# 816  
Delta R.T. -0.00 min  
Lab File: BF086248.D  
Acq: 16 Apr 2016 7:00

Instrument :  
BNA\_F  
ClientSampleId :  
PB89850BL

Tgt Ion:188 Resp: 895710  
Ion Ratio Lower Upper  
188 100  
94 11.7 9.8 14.8  
80 11.5 10.5 15.7

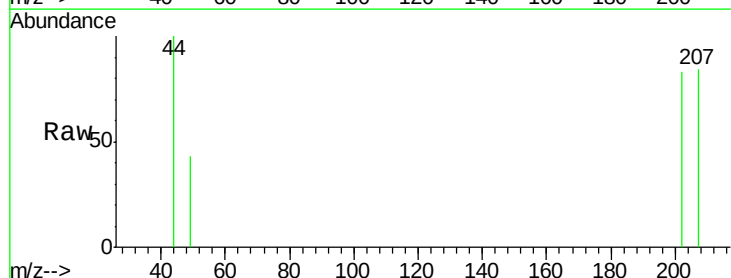


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

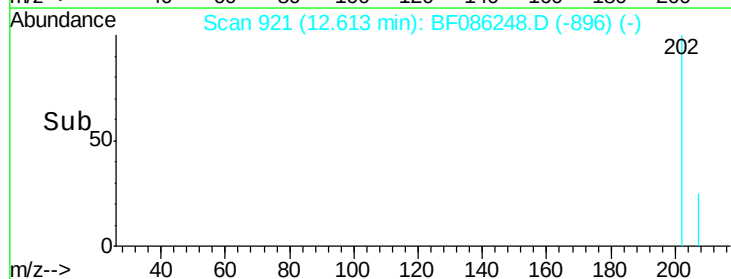
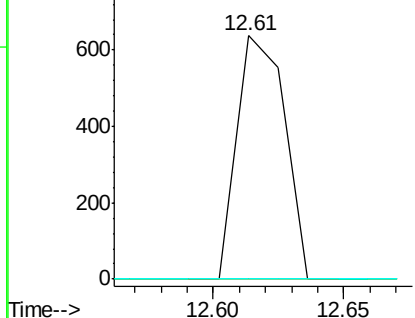


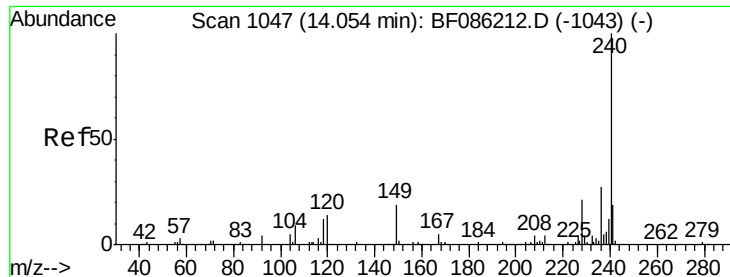
#74  
Fluoranthene  
Concen: Below Cal  
RT: 12.61 min Scan# 921  
Delta R.T. -0.01 min  
Lab File: BF086248.D  
Acq: 16 Apr 2016 7:00

Tgt Ion:202 Resp: 819  
Ion Ratio Lower Upper  
202 100  
101 0.0 0.0 35.2  
203 0.0 0.0 38.2



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BF086248.D

Acq: 16 Apr 2016 7:00

Instrument :

BNA\_F

ClientSampleId :

PB89850BL

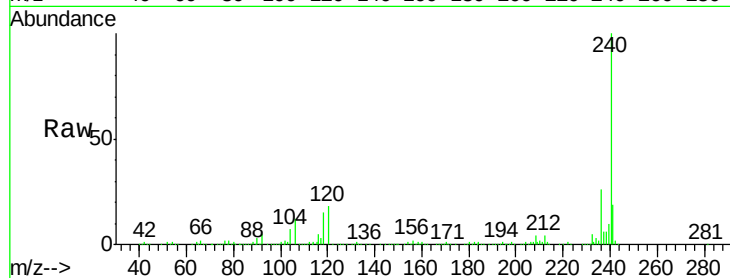
Tgt Ion:240 Resp: 541191

Ion Ratio Lower Upper

240 100

120 17.9 9.3 13.9#

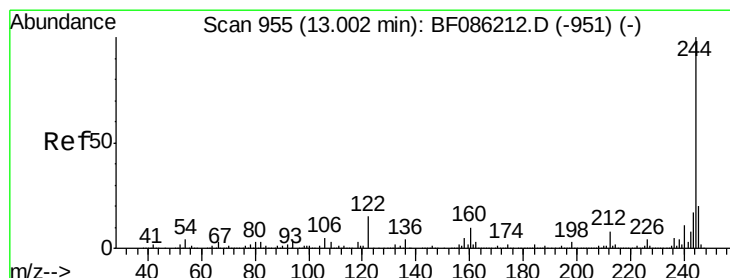
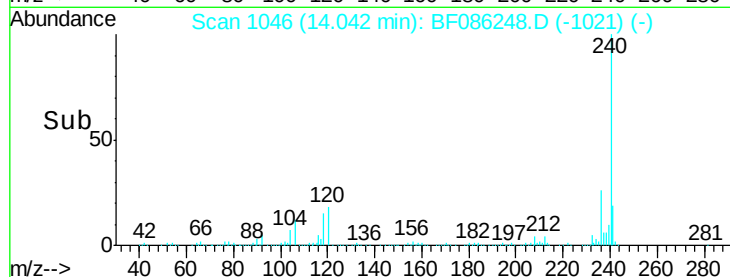
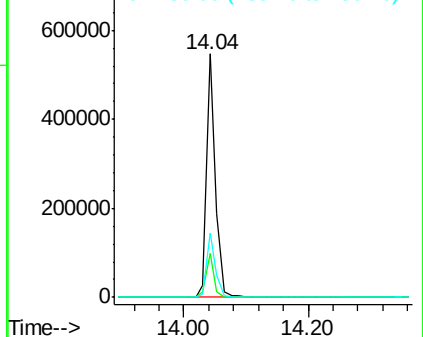
236 26.3 21.1 31.7



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: 65.81 ng

RT: 13.00 min Scan# 955

Delta R.T. 0.00 min

Lab File: BF086248.D

Acq: 16 Apr 2016 7:00

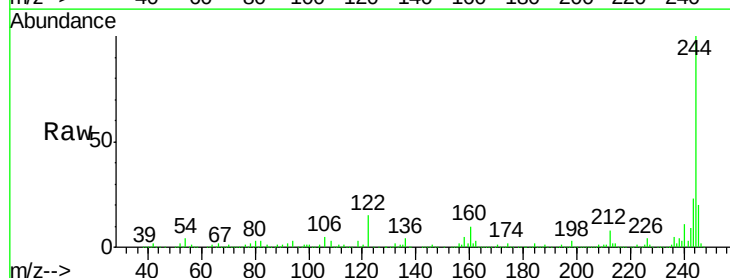
Tgt Ion:244 Resp: 1416444

Ion Ratio Lower Upper

244 100

212 7.8 6.4 9.6

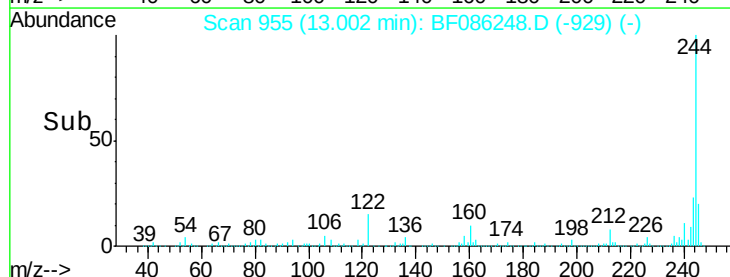
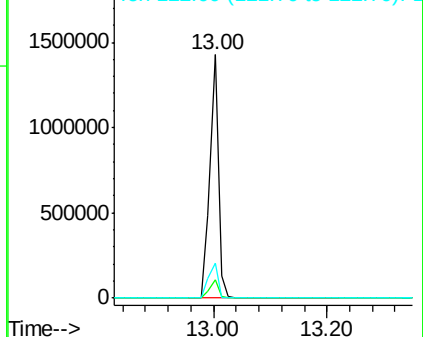
122 14.6 11.7 17.5

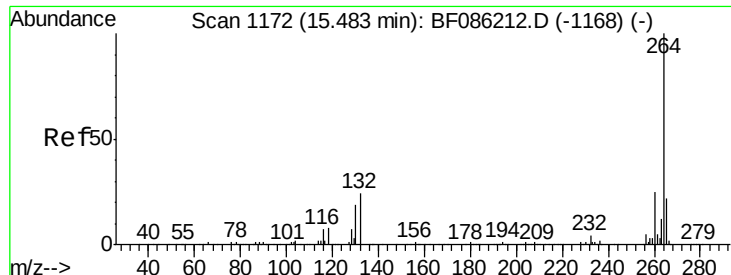


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.48 min Scan# 1172  
Delta R.T. -0.00 min  
Lab File: BF086248.D  
Acq: 16 Apr 2016 7:00

Instrument :  
BNA\_F  
ClientSampleId :  
PB89850BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 20.0  | 30.0  |
| 265     | 21.5  | 17.4  | 26.0  |

