

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032817\  
 Data File : BF093993.D  
 Acq On : 28 Mar 2017 15:31  
 Operator : SJ/MA  
 Sample : PB97829BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB97829BL

Quant Time: Mar 29 02:34:35 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 27 16:10:49 2017  
 Response via : Initial Calibration

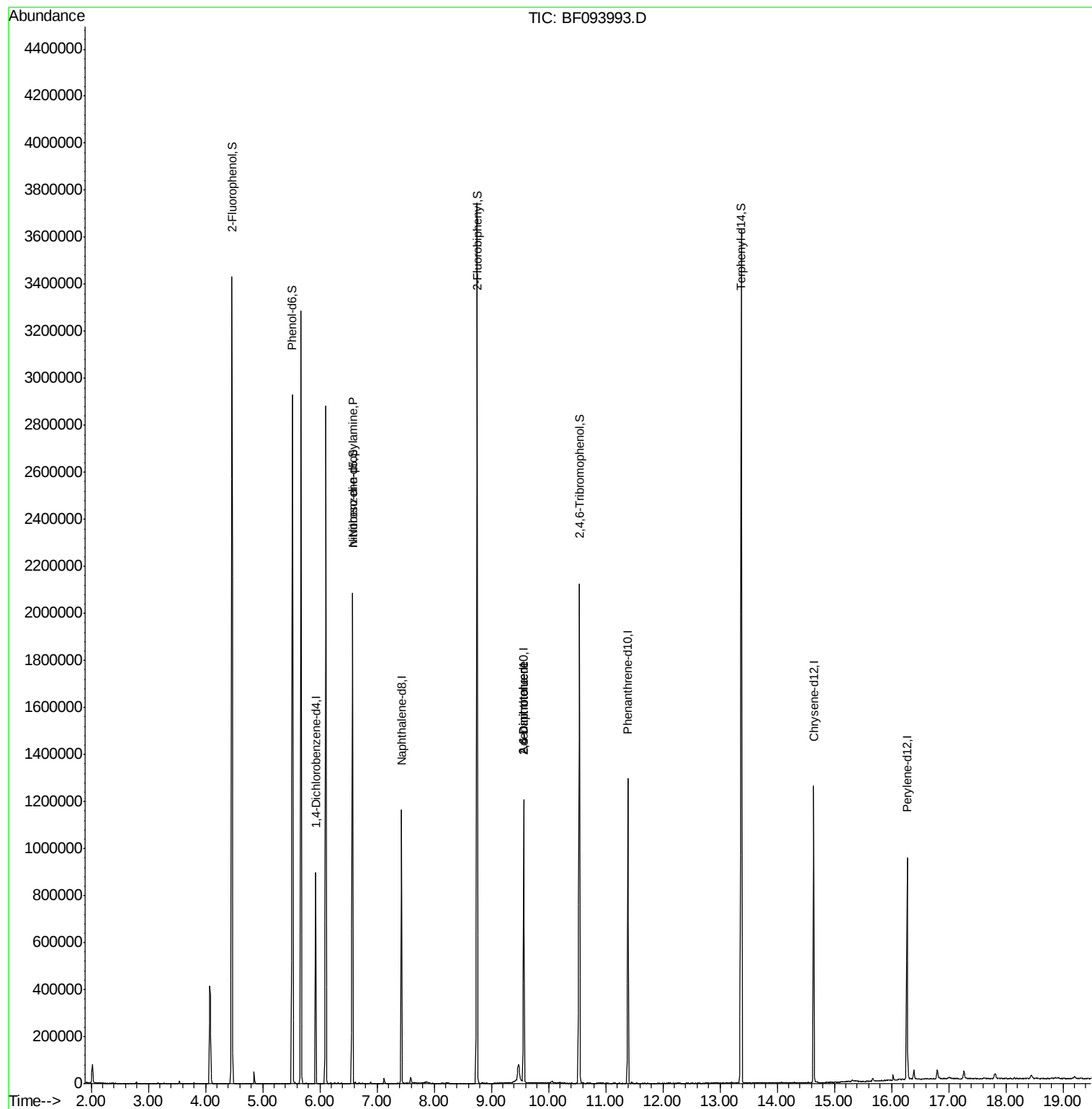
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 5.93  | 152  | 145960   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.43  | 136  | 590689   | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10           | 9.57  | 164  | 274661   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10           | 11.39 | 188  | 510310   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12               | 14.64 | 240  | 475281   | 20.00  | ng    | -0.04    |
| 86) Perylene-d12               | 16.27 | 264  | 402005   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 4.46  | 112  | 1084501  | 125.50 | ng    | -0.01    |
| 7) Phenol-d6                   | 5.52  | 99   | 1343509  | 125.67 | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 6.57  | 82   | 830514   | 80.24  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol       | 10.55 | 330  | 308786   | 142.27 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl           | 8.75  | 172  | 1546365  | 85.87  | ng    | -0.03    |
| 78) Terphenyl-d14              | 13.37 | 244  | 1441798  | 68.00  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 6.57  | 70   | 108330   | 15.77  | ng    | # 77     |
| 50) 2,6-Dinitrotoluene         | 9.57  | 165  | 34370    | 7.68   | ng    | # 33     |
| 56) 2,4-Dinitrotoluene         | 9.57  | 165  | 34370    | 6.11   | ng    | # 32     |

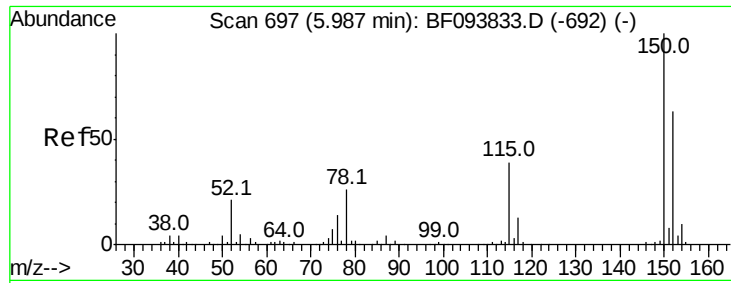
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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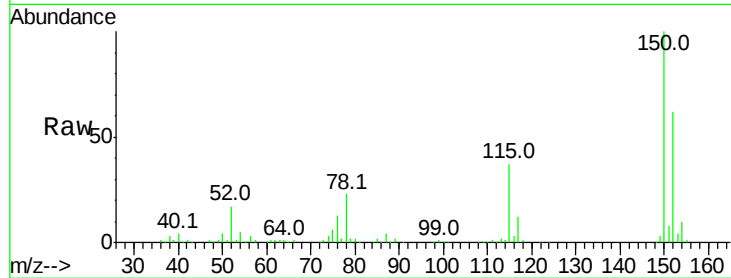


#1

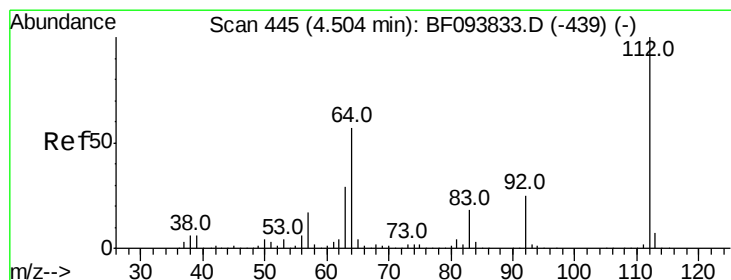
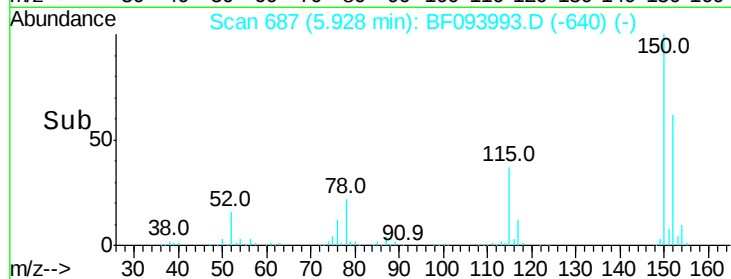
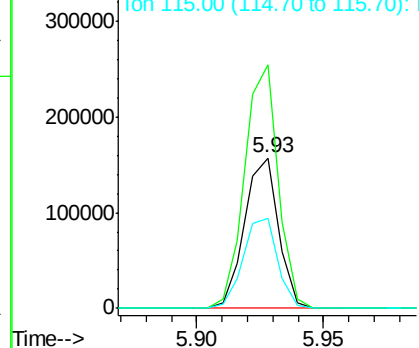
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 5.93 min Scan# 687  
 Delta R.T. -0.02 min  
 Lab File: BF093993.D  
 Acq: 28 Mar 2017 15:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB97829BL

Tot Ion:152 Resp: 145960  
 Ion Ratio Lower Upper  
 152 100  
 150 162.0 126.2 189.2  
 115 59.8 52.2 78.2



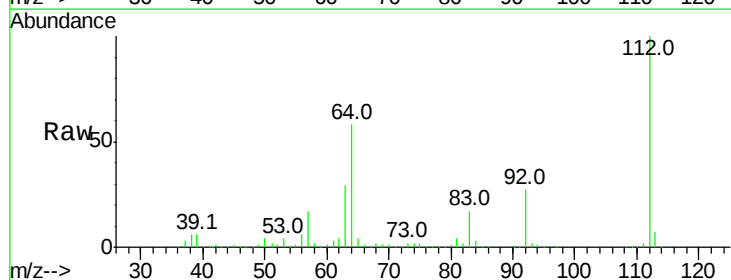
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



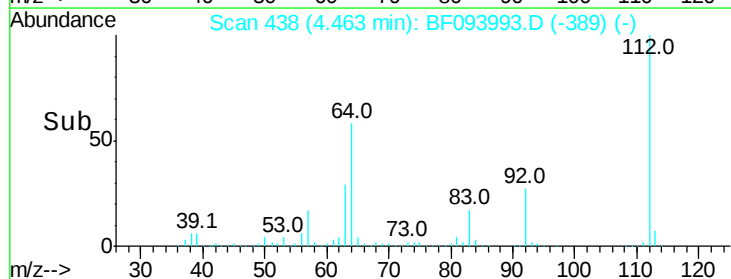
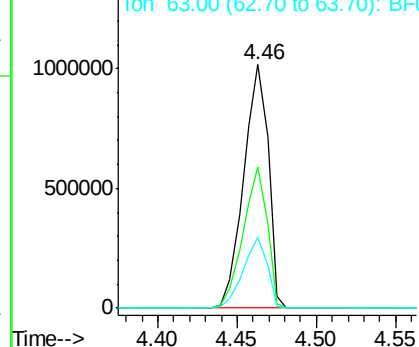
#5

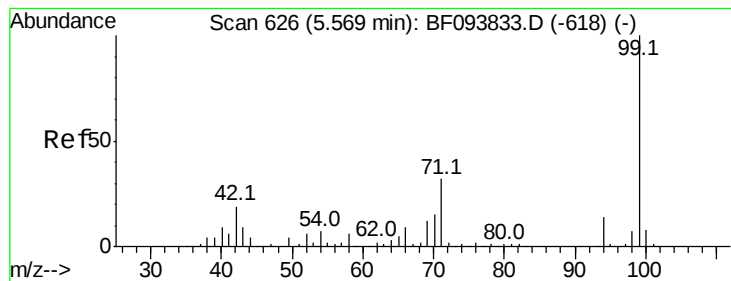
2-Fluorophenol  
 Concen: 125.50 ng  
 RT: 4.46 min Scan# 438  
 Delta R.T. -0.01 min  
 Lab File: BF093993.D  
 Acq: 28 Mar 2017 15:31

Tgt Ion:112 Resp: 1084501  
 Ion Ratio Lower Upper  
 112 100  
 64 57.8 46.0 69.0  
 63 29.2 23.4 35.0



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: 125.67 ng

RT: 5.52 min Scan# 618

Delta R.T. -0.03 min

Lab File: BF093993.D

Acq: 28 Mar 2017 15:31

Instrument :

BNA\_F

ClientSampleId :

PB97829BL

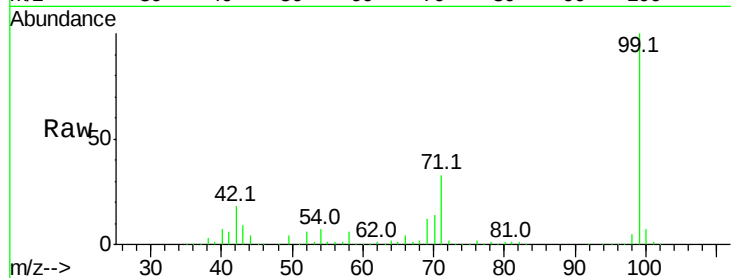
Tot Ion: 99 Resp: 1343509

Ion Ratio Lower Upper

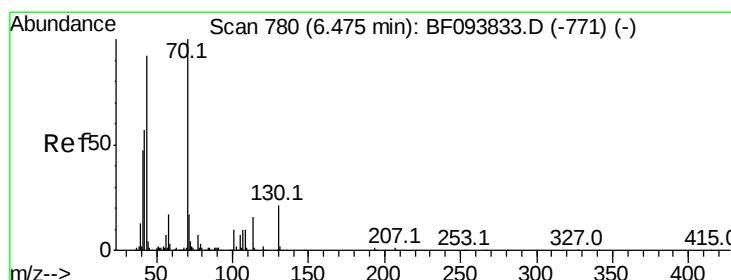
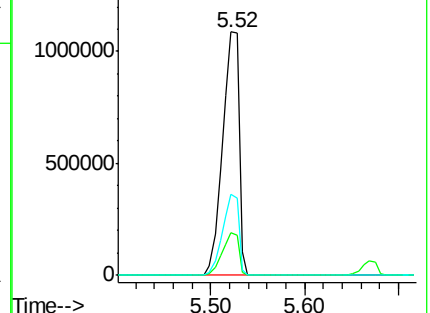
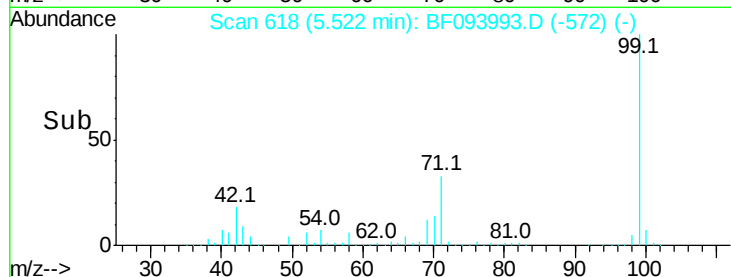
99 100

42 17.7 13.5 20.3

71 33.1 24.5 36.7



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: 15.77 ng

RT: 6.57 min Scan# 797

Delta R.T. 0.14 min

Lab File: BF093993.D

Acq: 28 Mar 2017 15:31

Tgt Ion: 70 Resp: 108330

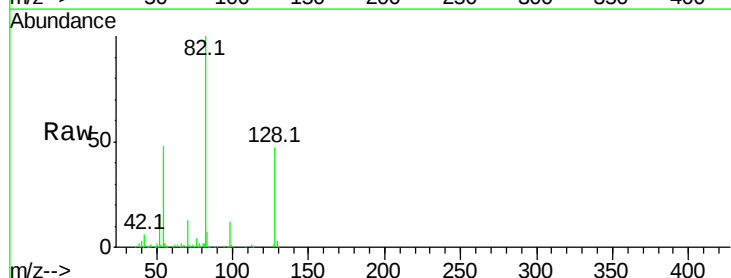
Ion Ratio Lower Upper

70 100

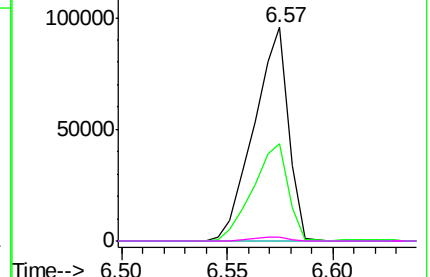
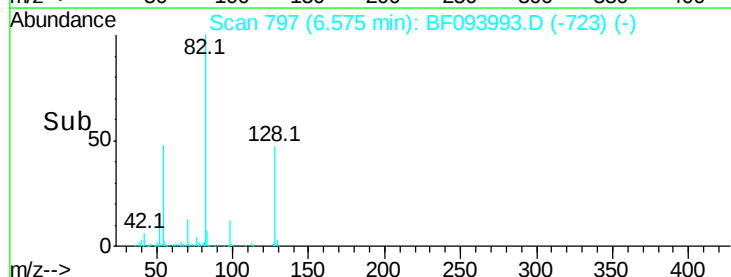
42 45.5 47.2 70.8#

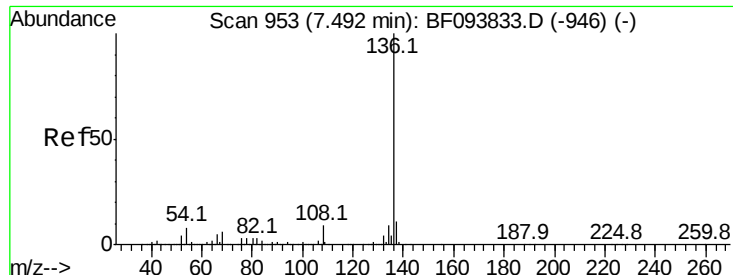
101 0.0 7.2 10.8#

130 1.9 15.9 23.9#



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

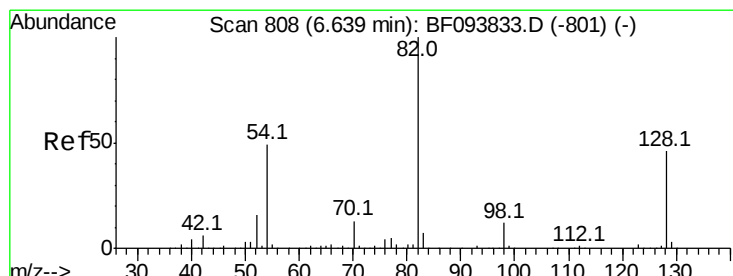
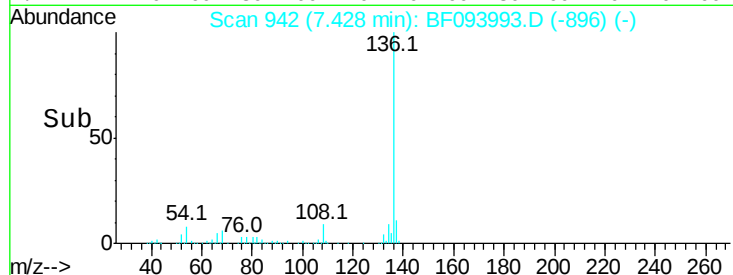
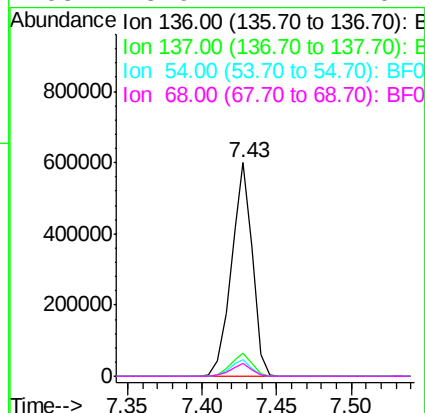
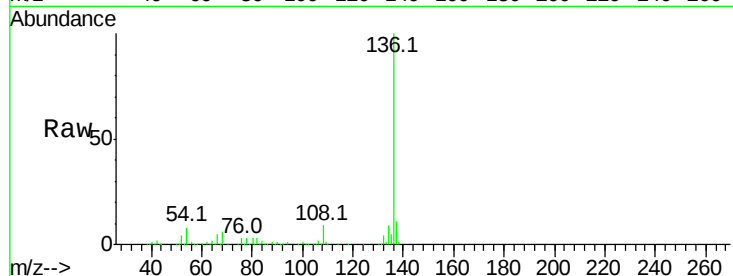




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.43 min Scan# 942  
Delta R.T. -0.03 min  
Lab File: BF093993.D  
Acq: 28 Mar 2017 15:31

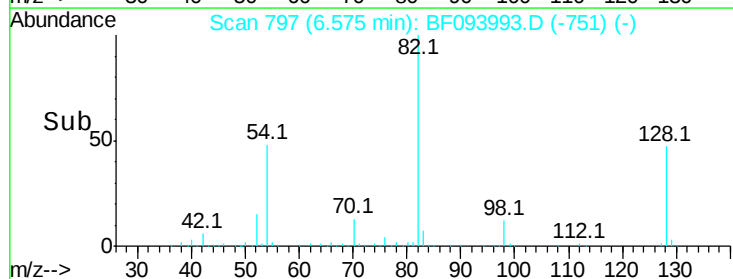
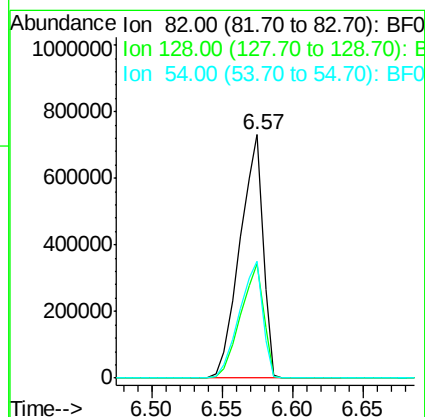
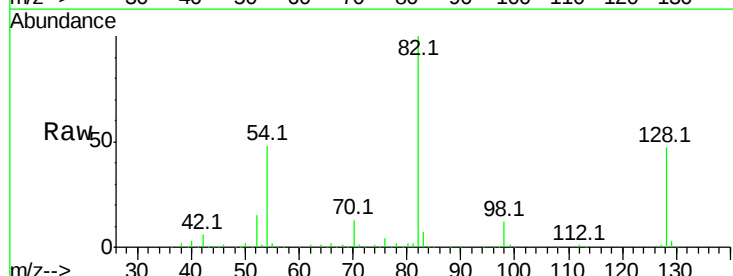
Instrument :  
BNA\_F  
ClientSampleId :  
PB97829BL

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 590689   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.9  | 8.5 12.7 |
| 54          | 7.6   | 4.9 7.3# |
| 68          | 5.9   | 4.1 6.1  |



#23  
Nitrobenzene-d5  
Concen: 80.24 ng  
RT: 6.57 min Scan# 797  
Delta R.T. -0.03 min  
Lab File: BF093993.D  
Acq: 28 Mar 2017 15:31

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 830514    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 47.0  | 34.0 51.0 |
| 54          | 48.2  | 42.2 63.2 |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.57 min Scan# 1306

Delta R.T. -0.03 min

Lab File: BF093993.D

Acq: 28 Mar 2017 15:31

Instrument :

BNA\_F

ClientSampleId :

PB97829BL

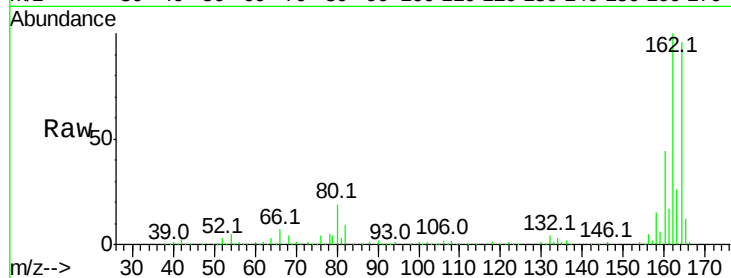
Tot Ion:164 Resp: 274661

Ion Ratio Lower Upper

164 100

162 104.2 82.6 123.8

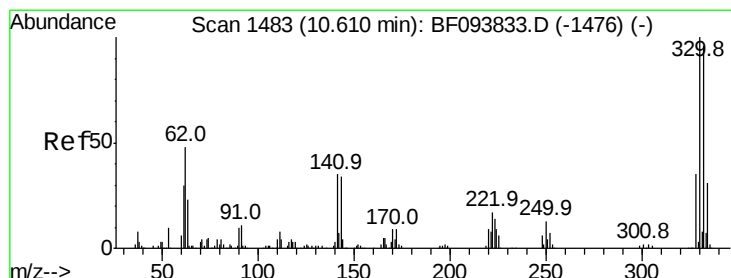
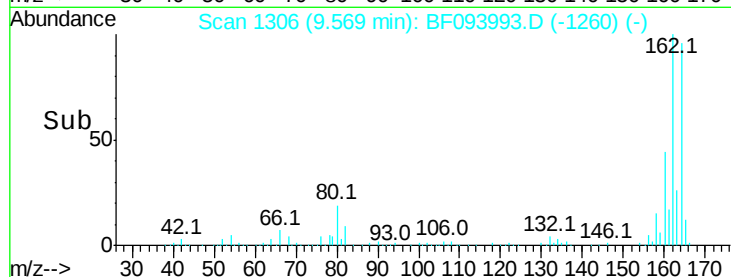
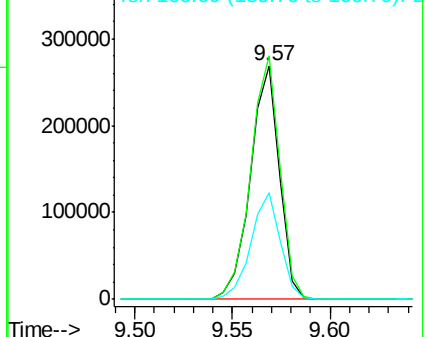
160 45.8 36.2 54.2



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: 142.27 ng

RT: 10.55 min Scan# 1472

Delta R.T. -0.03 min

Lab File: BF093993.D

Acq: 28 Mar 2017 15:31

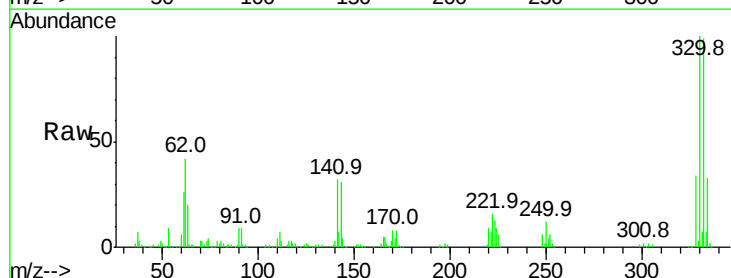
Tgt Ion:330 Resp: 308786

Ion Ratio Lower Upper

330 100

332 97.8 76.6 115.0

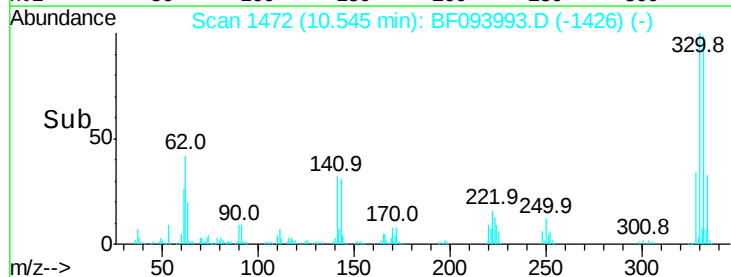
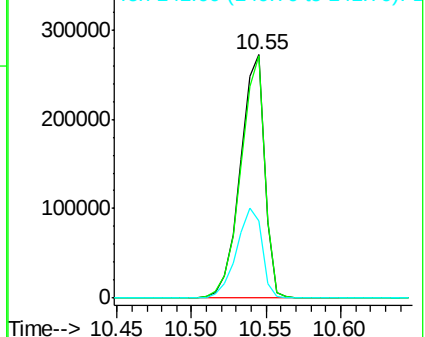
141 38.6 31.4 47.2

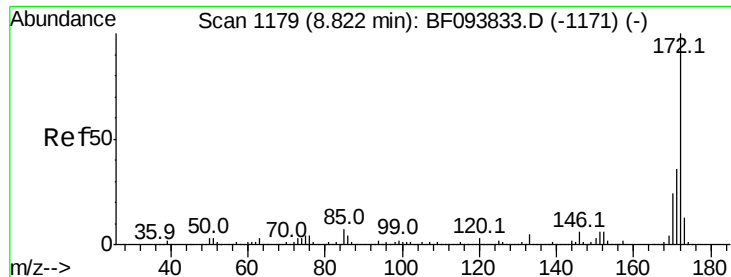


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

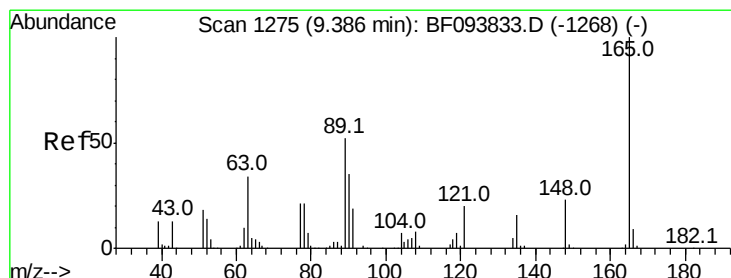
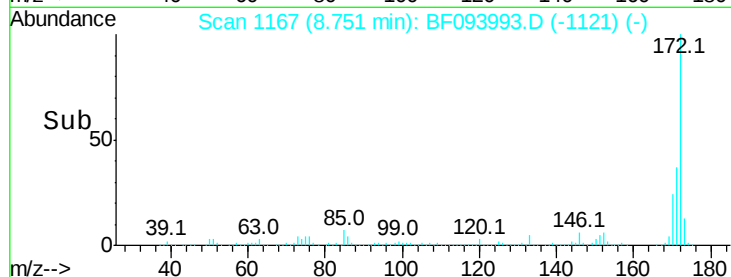
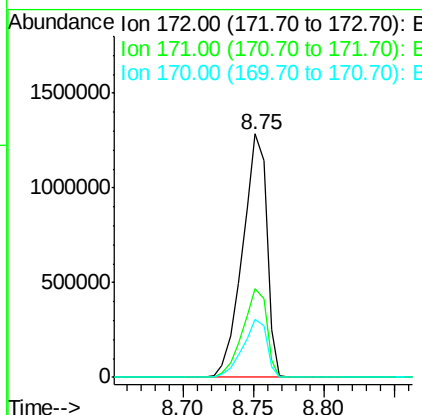
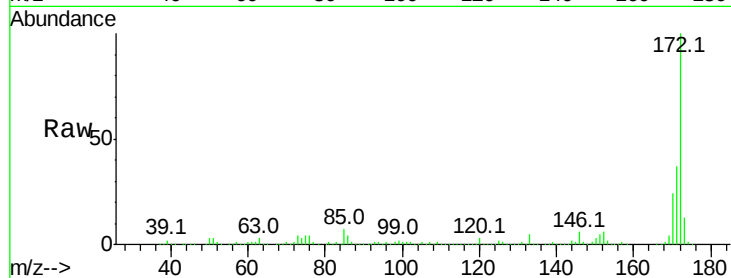




#44  
 2-Fluorobiphenyl  
 Concen: 85.87 ng  
 RT: 8.75 min Scan# 1167  
 Delta R.T. -0.03 min  
 Lab File: BF093993.D  
 Acq: 28 Mar 2017 15:31

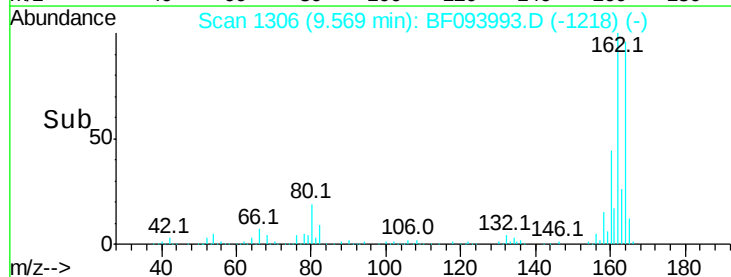
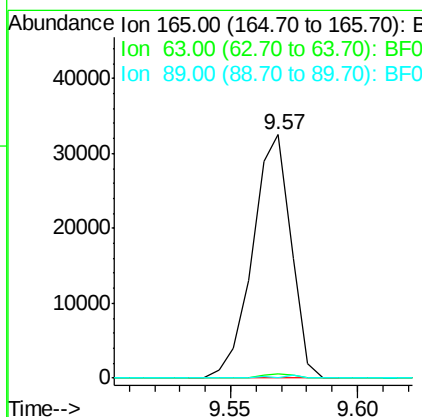
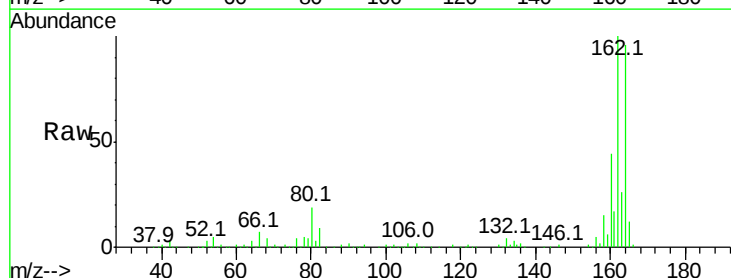
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB97829BL

Tot Ion:172 Resp: 1546365  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.6 44.4  
 170 23.9 19.8 29.8



#50  
 2,6-Dinitrotoluene  
 Concen: 7.68 ng  
 RT: 9.57 min Scan# 1306  
 Delta R.T. 0.22 min  
 Lab File: BF093993.D  
 Acq: 28 Mar 2017 15:31

Tgt Ion:165 Resp: 34370  
 Ion Ratio Lower Upper  
 165 100  
 63 1.9 34.3 51.5#  
 89 0.0 37.1 55.7#

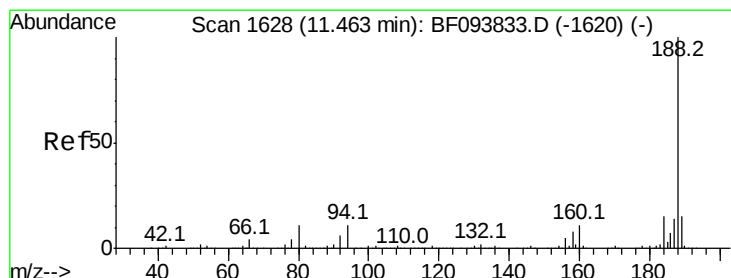
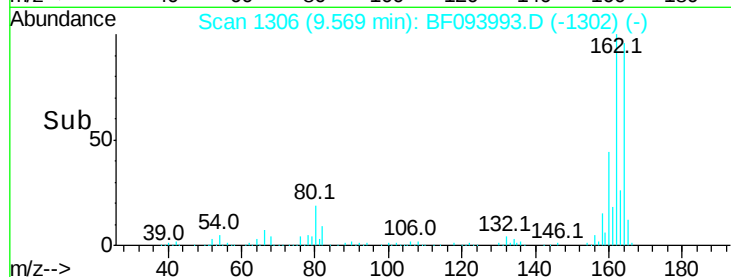
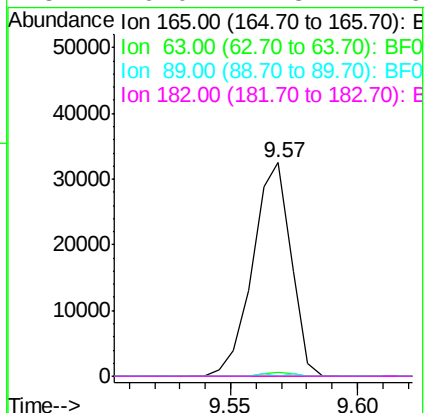
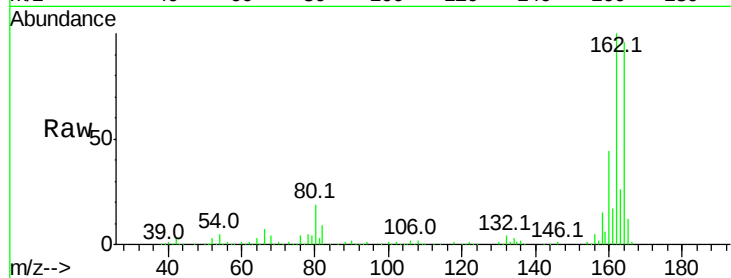




#56  
 2,4-Dinitrotoluene  
 Concen: 6.11 ng  
 RT: 9.57 min Scan# 1306  
 Delta R.T. -0.28 min  
 Lab File: BF093993.D  
 Acq: 28 Mar 2017 15:31

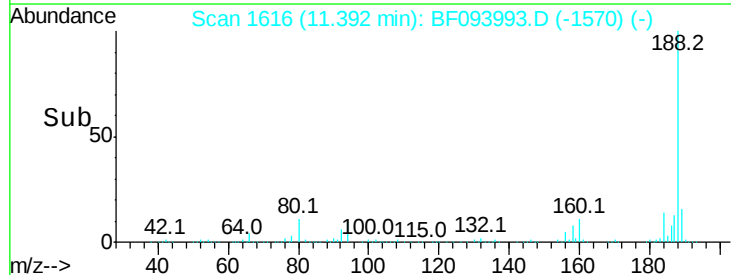
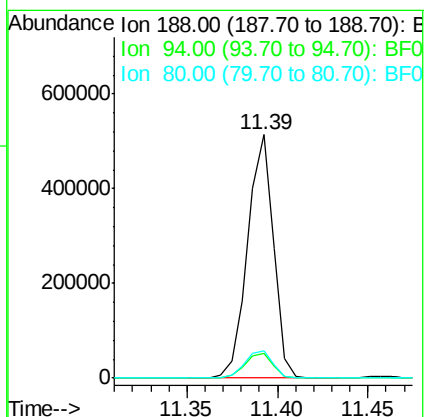
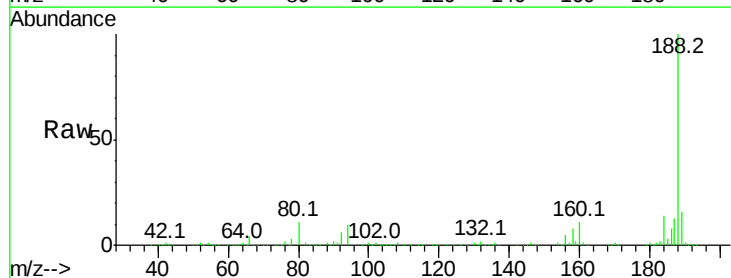
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB97829BL

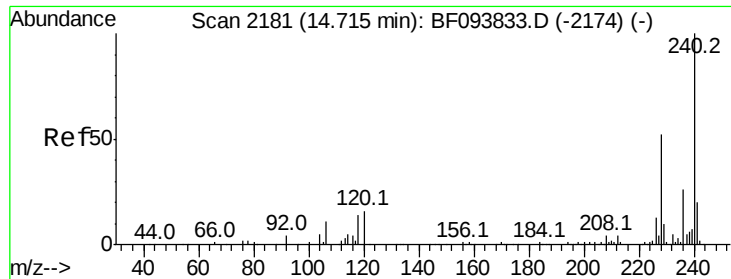
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 34370 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.9   | 25.4  | 38.0# |
| 89       | 0.0   | 46.4  | 69.6# |
| 182      | 0.0   | 1.8   | 2.6#  |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.39 min Scan# 1616  
 Delta R.T. -0.03 min  
 Lab File: BF093993.D  
 Acq: 28 Mar 2017 15:31

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 510310 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 10.3  | 9.4   | 14.2   |
| 80       | 11.0  | 10.2  | 15.2   |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.64 min Scan# 2168

Delta R.T. -0.04 min

Lab File: BF093993.D

Acq: 28 Mar 2017 15:31

Instrument :

BNA\_F

ClientSampleId :

PB97829BL

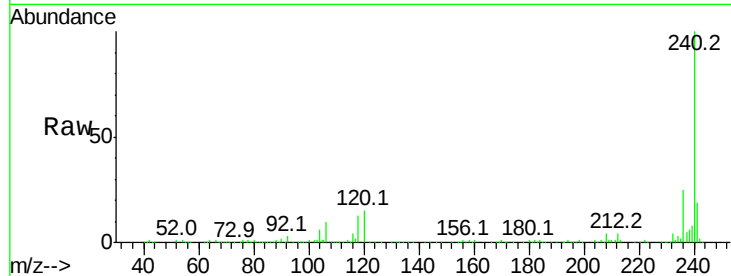
Tot Ion:240 Resp: 475281

Ion Ratio Lower Upper

240 100

120 14.8 5.8 8.8#

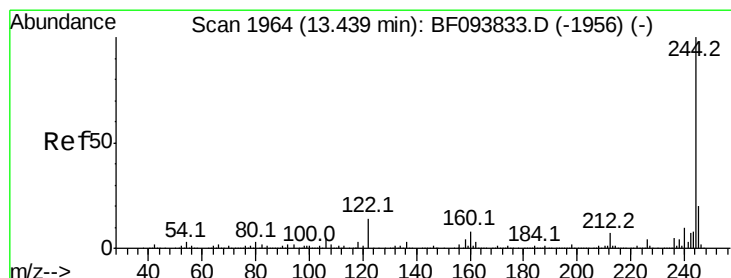
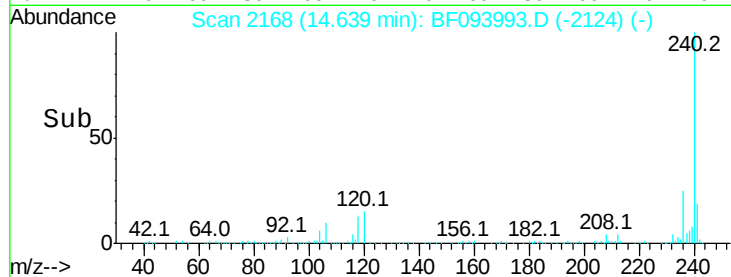
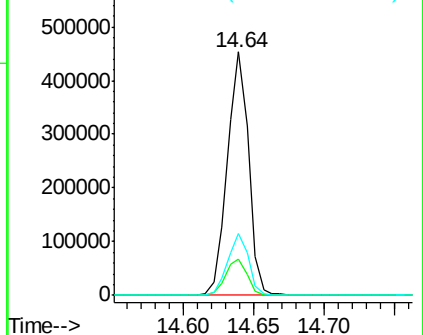
236 25.3 20.5 30.7



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: 68.00 ng

RT: 13.37 min Scan# 1953

Delta R.T. -0.03 min

Lab File: BF093993.D

Acq: 28 Mar 2017 15:31

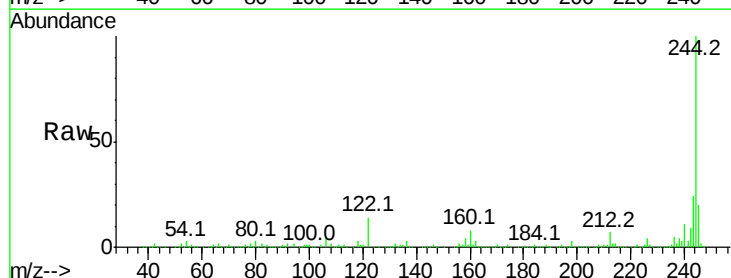
Tgt Ion:244 Resp: 1441798

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

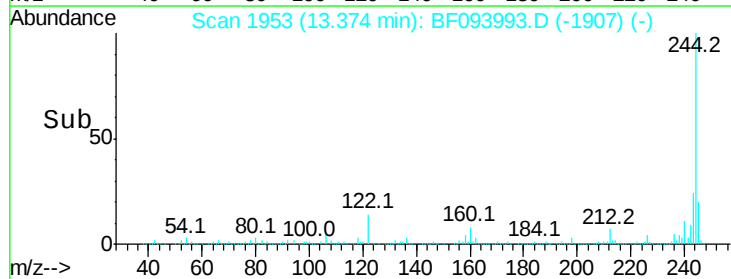
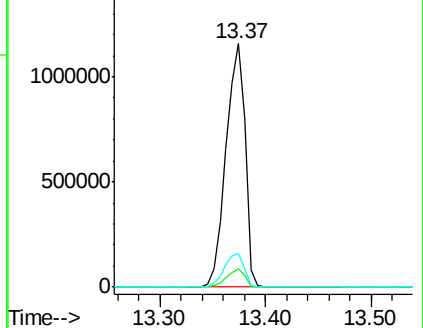
122 13.9 10.3 15.5

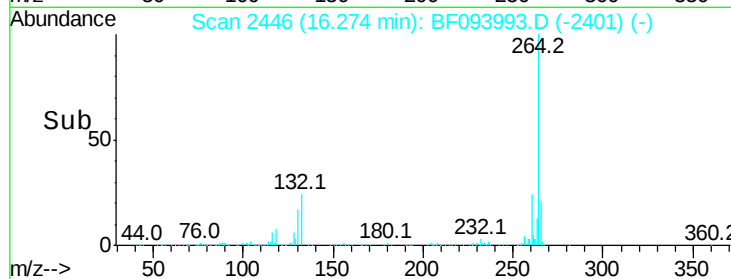
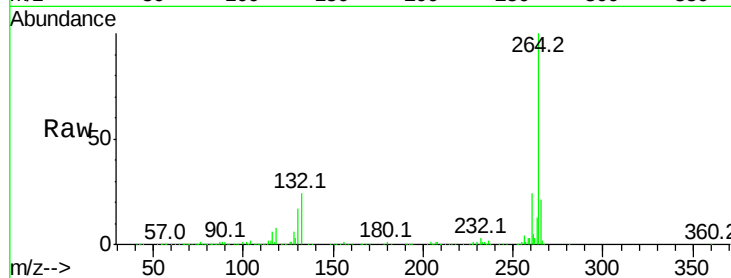
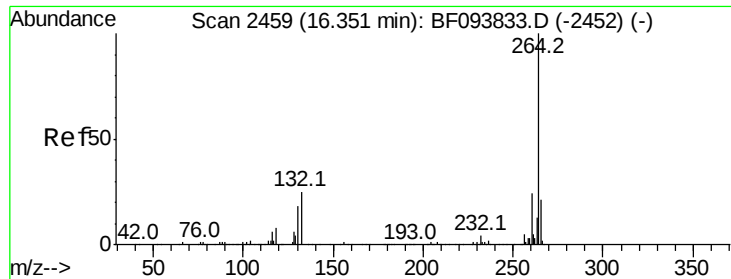


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 16.27 min Scan# 2446  
Delta R.T. -0.04 min  
Lab File: BF093993.D  
Acq: 28 Mar 2017 15:31

Instrument :  
BNA\_F  
ClientSampleId :  
PB97829BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.5  | 29.3  |
| 265     | 21.2  | 17.2  | 25.8  |

