

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040617\  
 Data File : BF094261.D  
 Acq On : 7 Apr 2017 8:44  
 Operator : SJ/MA  
 Sample : I2542-18  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 07 13:13:43 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 06 13:20:29 2017  
 Response via : Initial Calibration

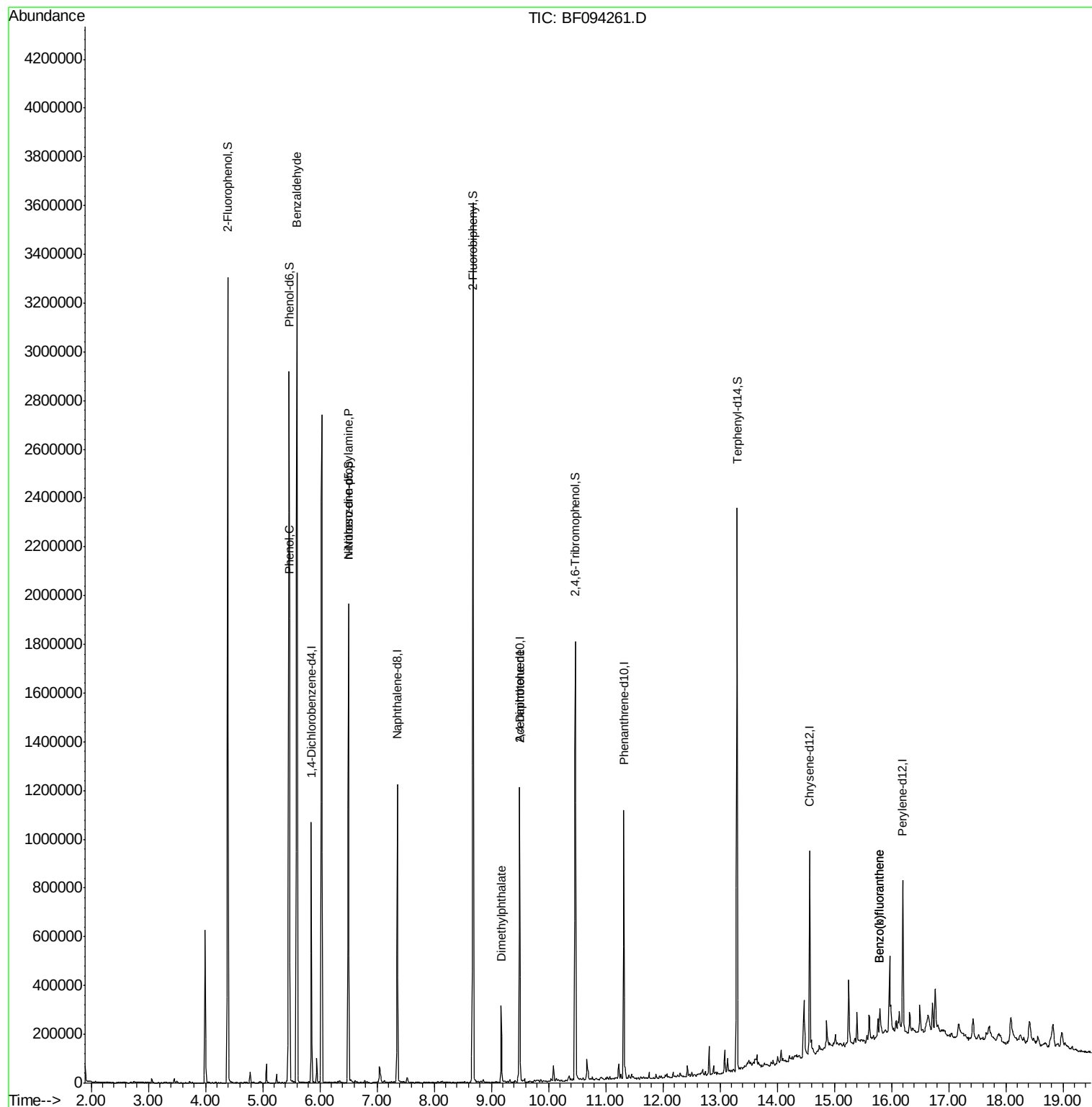
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 5.85  | 152  | 160621   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.36  | 136  | 652057   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.49  | 164  | 279878   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.32 | 188  | 441304   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.57 | 240  | 306545   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 16.20 | 264  | 255190   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 4.39  | 112  | 968720   | 101.87 | ng    | 0.00     |
| 7) Phenol-d6                   | 5.46  | 99   | 1241491  | 105.53 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 6.50  | 82   | 761009   | 66.60  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.47 | 330  | 229426   | 103.74 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 8.68  | 172  | 1289672  | 70.28  | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.30 | 244  | 778661   | 56.94  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 5.60  | 77   | 20768    | 2.61   | ng    | 81       |
| 10) Phenol                     | 5.47  | 94   | 90836    | 6.79   | ng    | 90       |
| 19) n-Nitroso-di-n-propylamine | 6.50  | 70   | 99021    | 13.10  | ng    | # 79     |
| 49) Dimethylphthalate          | 9.17  | 163  | 132142   | 6.64   | ng    | 98       |
| 56) 2,4-Dinitrotoluene         | 9.49  | 165  | 35385    | 6.18   | ng    | # 33     |
| 87) Benzo(b)fluoranthene       | 15.79 | 252  | 43374    | 2.77   | ng    | # 89     |
| 88) Benzo(k)fluoranthene       | 15.79 | 252  | 43374    | 2.83   | ng    | # 92     |

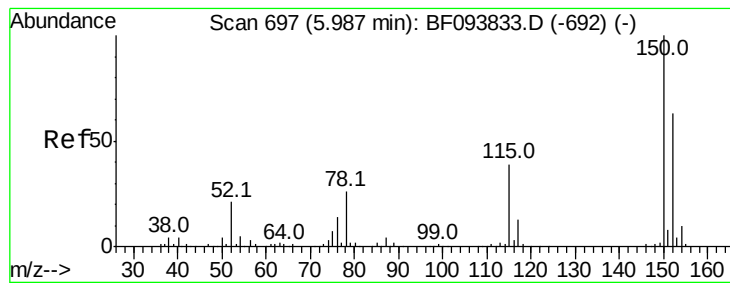
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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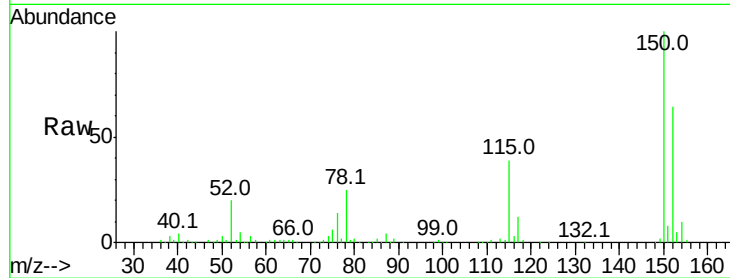


#1

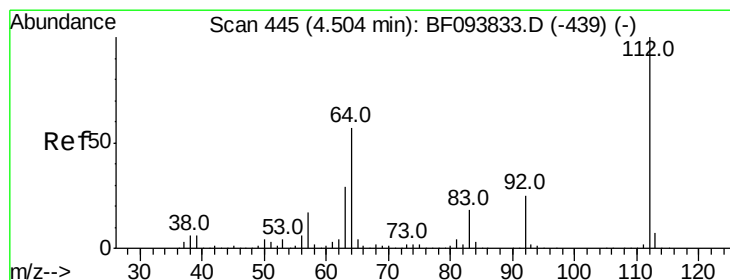
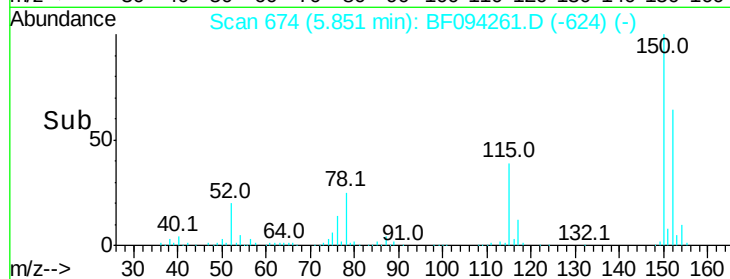
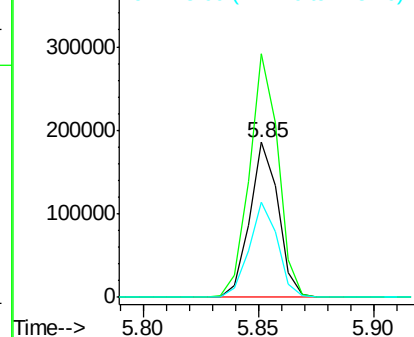
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 5.85 min Scan# 674  
 Delta R.T. -0.01 min  
 Lab File: BF094261.D  
 Acq: 7 Apr 2017 8:44

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 160621  
 Ion Ratio Lower Upper  
 152 100  
 150 157.4 126.2 189.2  
 115 61.4 52.2 78.2



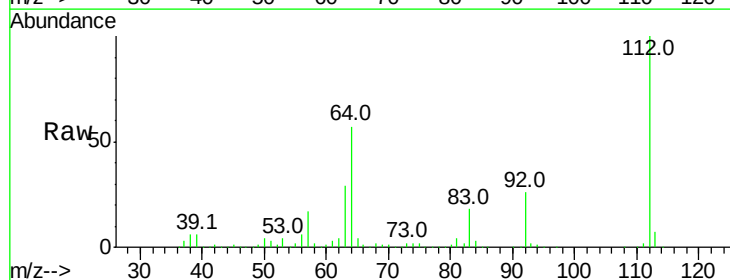
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



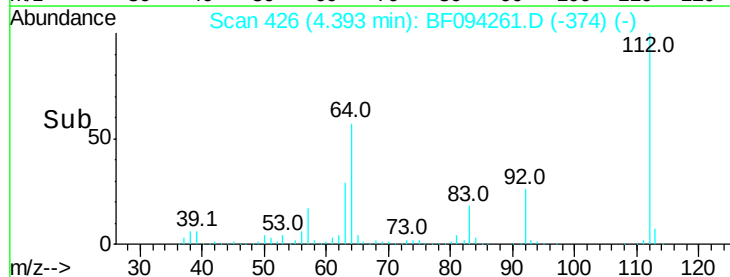
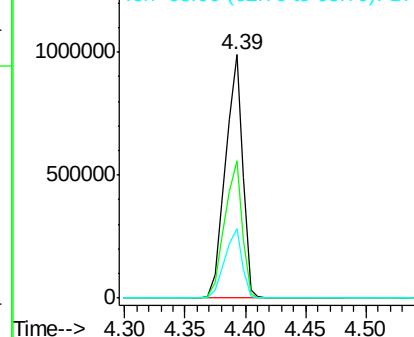
#5

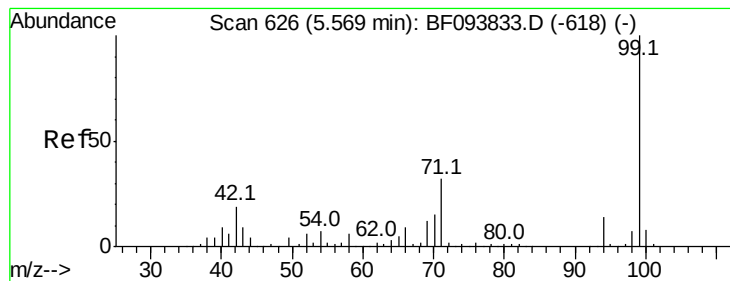
2-Fluorophenol  
 Concen: 101.87 ng  
 RT: 4.39 min Scan# 426  
 Delta R.T. 0.01 min  
 Lab File: BF094261.D  
 Acq: 7 Apr 2017 8:44

Tgt Ion:112 Resp: 968720  
 Ion Ratio Lower Upper  
 112 100  
 64 56.6 46.0 69.0  
 63 28.6 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: 105.53 ng

RT: 5.46 min Scan# 608

Delta R.T. -0.00 min

Lab File: BF094261.D

Acq: 7 Apr 2017 8:44

Instrument :

BNA\_F

ClientSampleId :

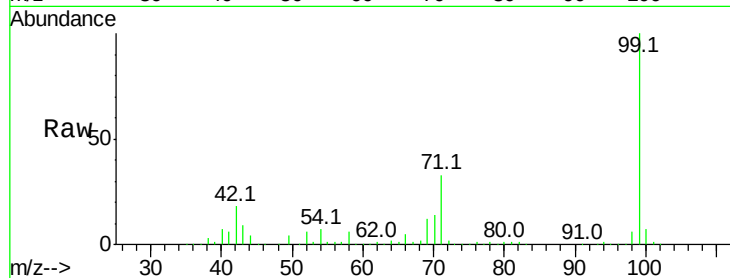
Tot Ion: 99 Resp: 1241491

Ion Ratio Lower Upper

99 100

42 17.9 13.5 20.3

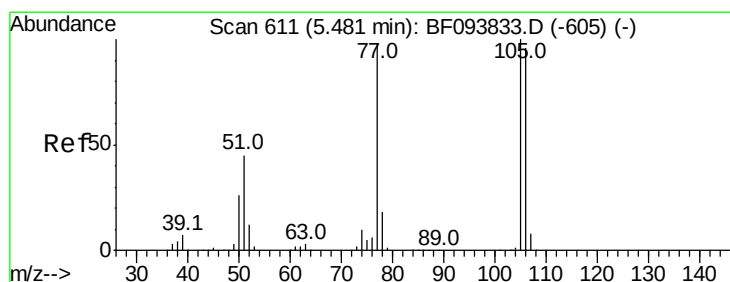
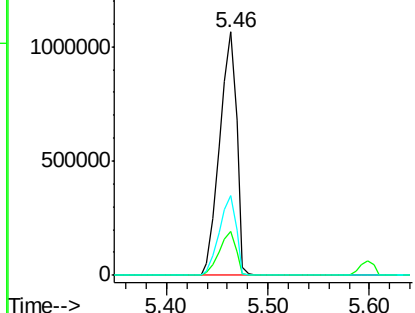
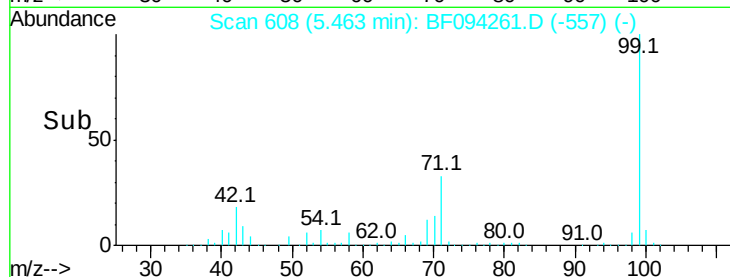
71 32.6 24.5 36.7



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



#9

Benzaldehyde

Concen: 2.61 ng

RT: 5.60 min Scan# 631

Delta R.T. 0.25 min

Lab File: BF094261.D

Acq: 7 Apr 2017 8:44

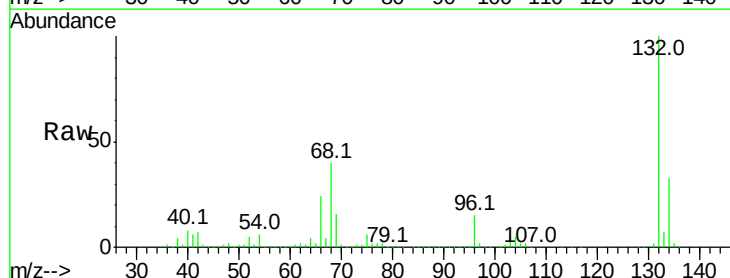
Tgt Ion: 77 Resp: 20768

Ion Ratio Lower Upper

77 100

105 84.6 83.8 123.8

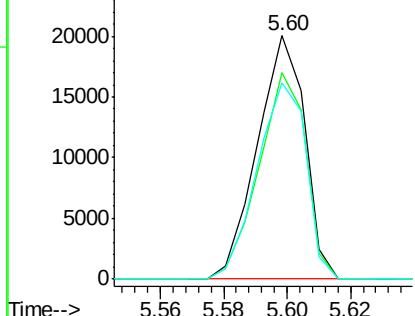
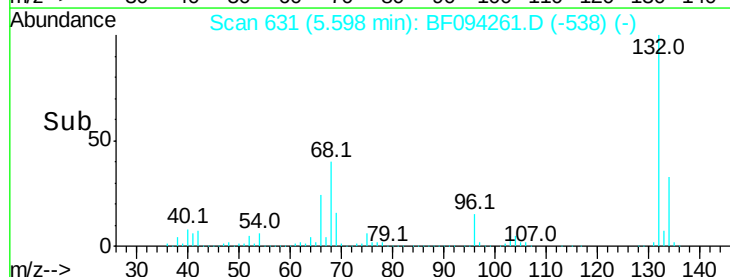
106 80.5 79.1 119.1

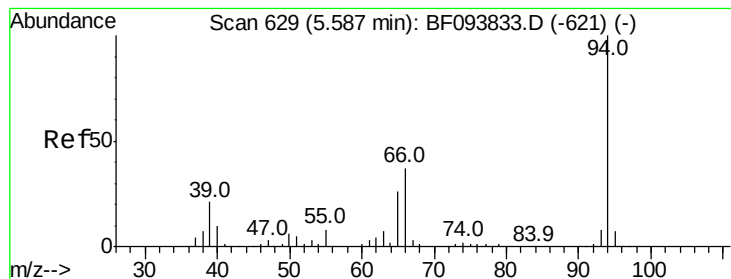


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): B

Ion 106.00 (105.70 to 106.70): B





#10

Phenol

Concen: 6.79 ng

RT: 5.47 min Scan# 610

Delta R.T. -0.01 min

Lab File: BF094261.D

Acq: 7 Apr 2017 8:44

Instrument :

BNA\_F

ClientSampleId :

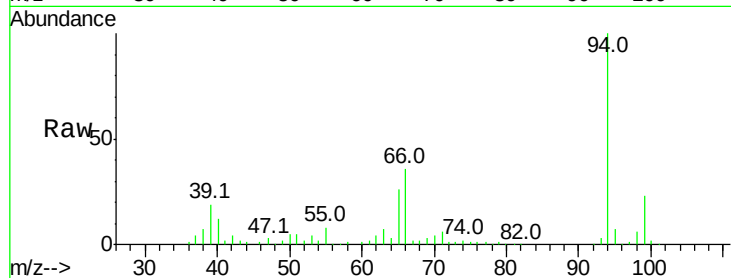
Tot Ion: 94 Resp: 90836

Ion Ratio Lower Upper

94 100

65 25.6 9.9 49.9

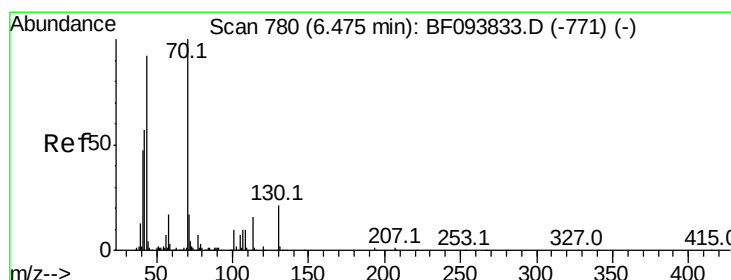
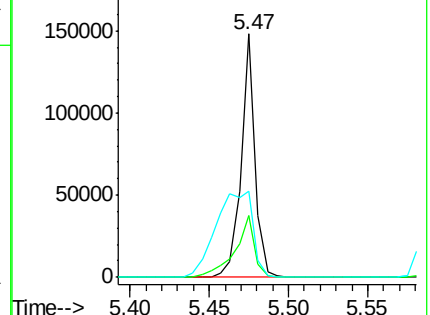
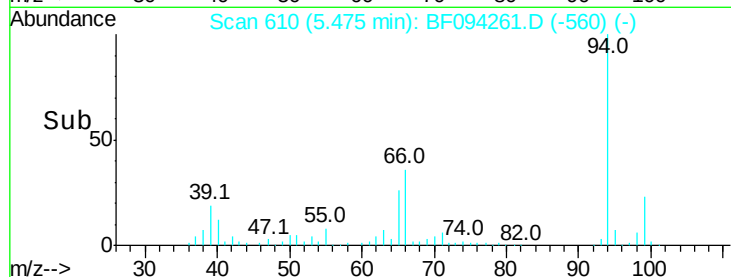
66 35.5 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 13.10 ng

RT: 6.50 min Scan# 785

Delta R.T. 0.16 min

Lab File: BF094261.D

Acq: 7 Apr 2017 8:44

Tgt Ion: 70 Resp: 99021

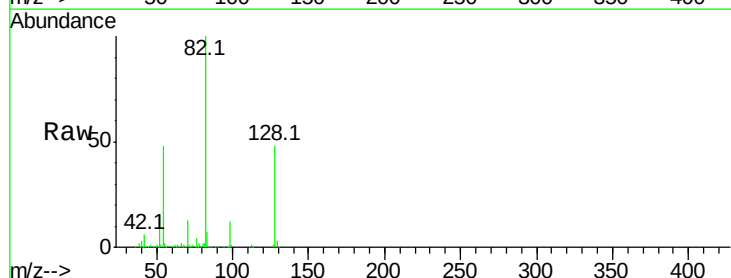
Ion Ratio Lower Upper

70 100

42 47.5 47.2 70.8

101 0.0 7.2 10.8#

130 2.8 15.9 23.9#

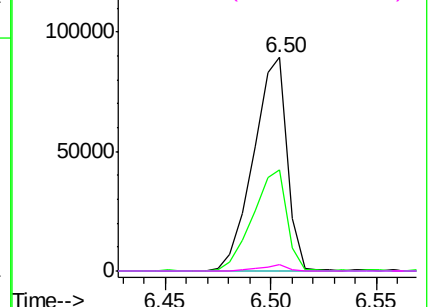
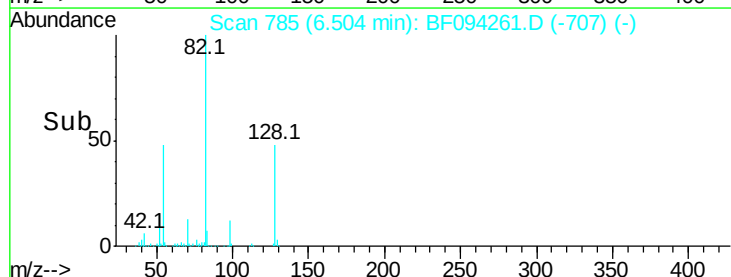


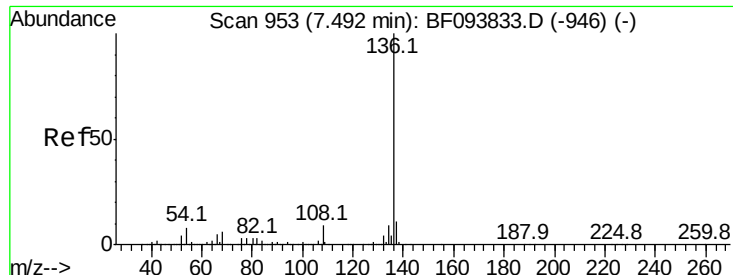
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

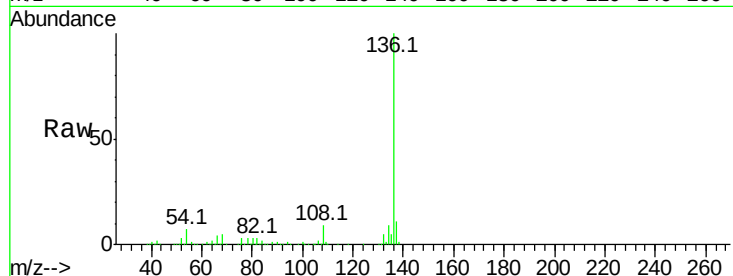




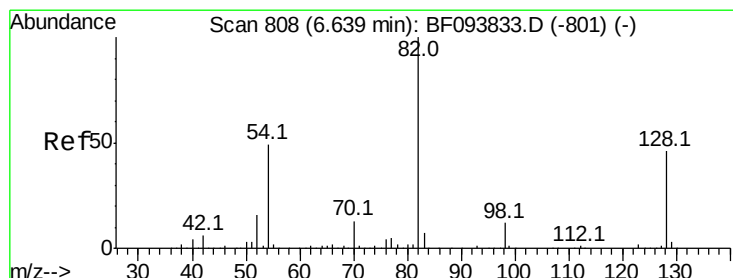
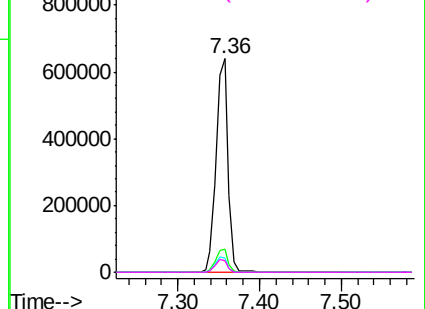
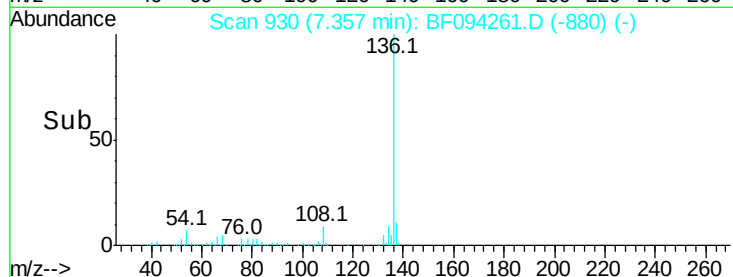
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.36 min Scan# 930  
Delta R.T. -0.01 min  
Lab File: BF094261.D  
Acq: 7 Apr 2017 8:44

Instrument :  
BNA\_F  
ClientSampled :

|             |              |
|-------------|--------------|
| Tot Ion:136 | Resp: 652057 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 10.6    | 8.5 12.7     |
| 54 6.7      | 4.9 7.3      |
| 68 5.3      | 4.1 6.1      |

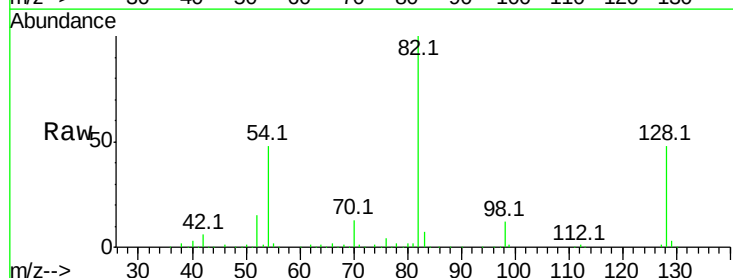


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

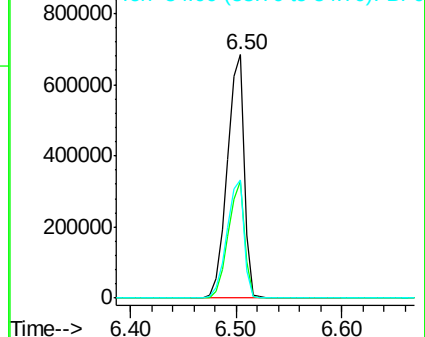
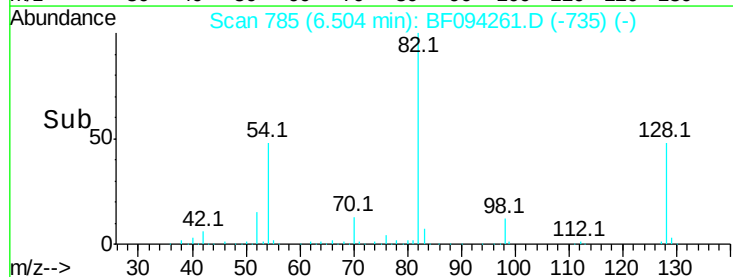


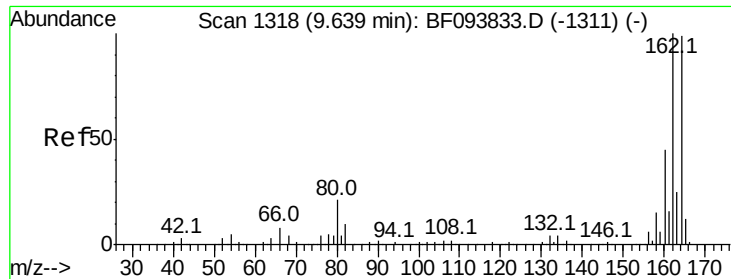
#23  
Nitrobenzene-d5  
Concen: 66.60 ng  
RT: 6.50 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: BF094261.D  
Acq: 7 Apr 2017 8:44

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 761009 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 47.8    | 34.0 51.0    |
| 54 48.5     | 42.2 63.2    |



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

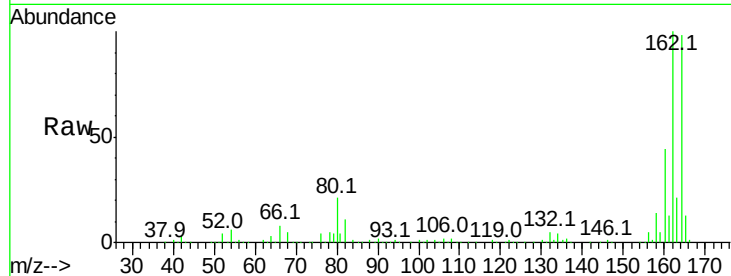




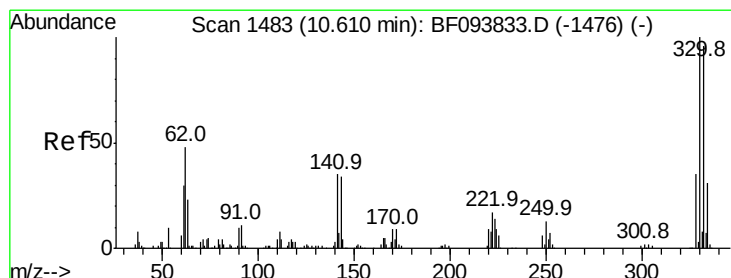
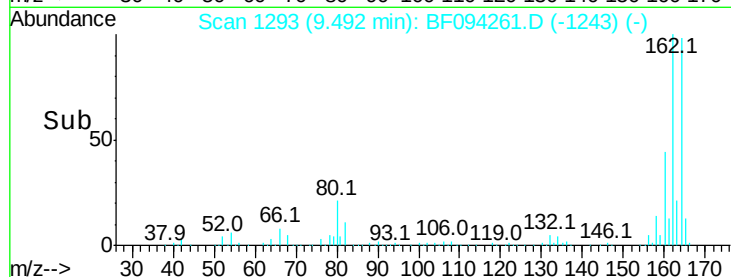
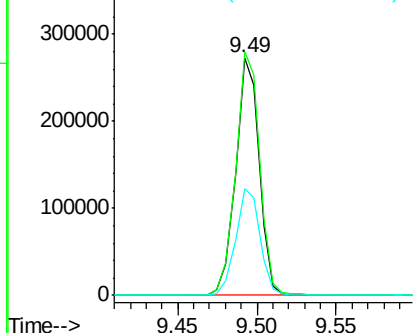
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.49 min Scan# 1293  
 Delta R.T. -0.01 min  
 Lab File: BF094261.D  
 Acq: 7 Apr 2017 8:44

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 279878  
 Ion Ratio Lower Upper  
 164 100  
 162 102.6 82.6 123.8  
 160 44.9 36.2 54.2

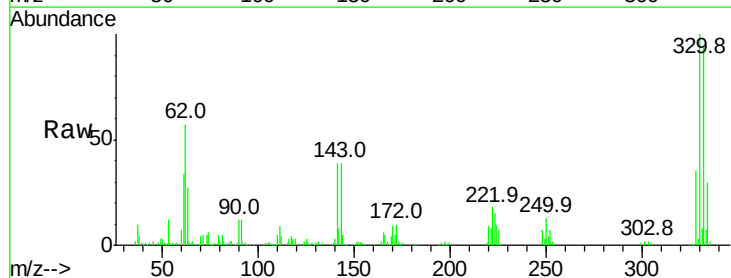


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

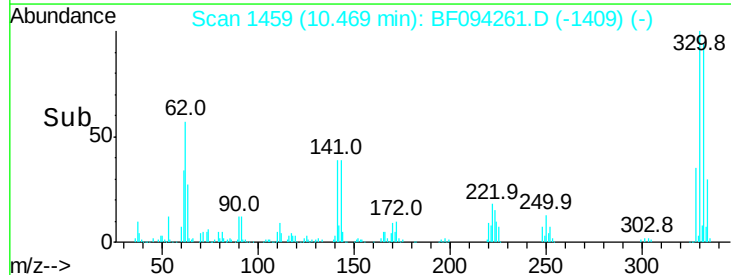
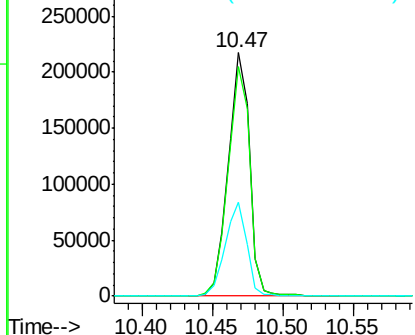


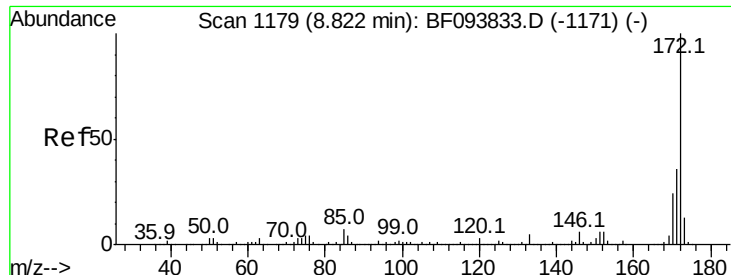
#41  
 2,4,6-Tribromophenol  
 Concen: 103.74 ng  
 RT: 10.47 min Scan# 1459  
 Delta R.T. -0.01 min  
 Lab File: BF094261.D  
 Acq: 7 Apr 2017 8:44

Tgt Ion:330 Resp: 229426  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 76.6 115.0  
 141 39.4 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

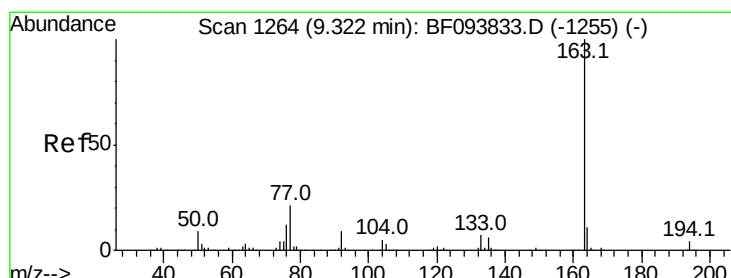
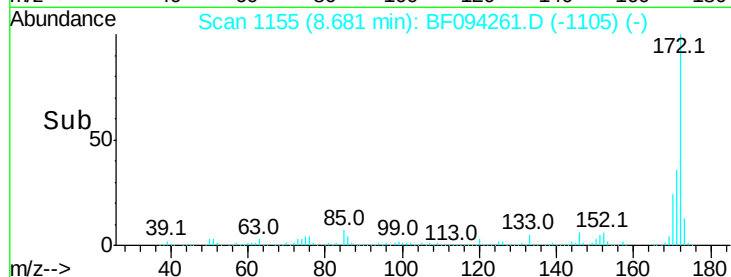
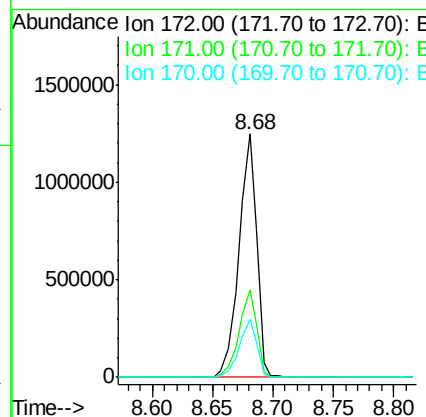
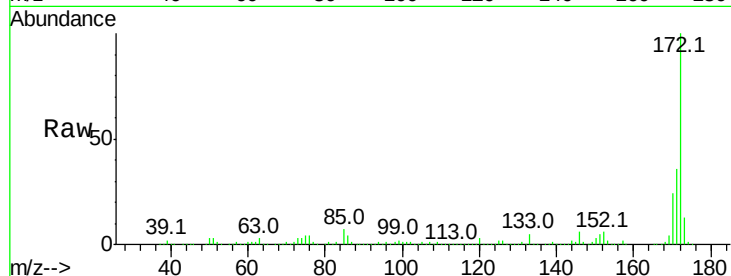




#44  
2-Fluorobiphenyl  
Concen: 70.28 ng  
RT: 8.68 min Scan# 1155  
Delta R.T. -0.01 min  
Lab File: BF094261.D  
Acq: 7 Apr 2017 8:44

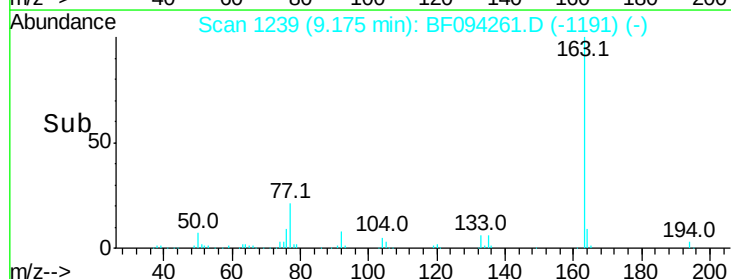
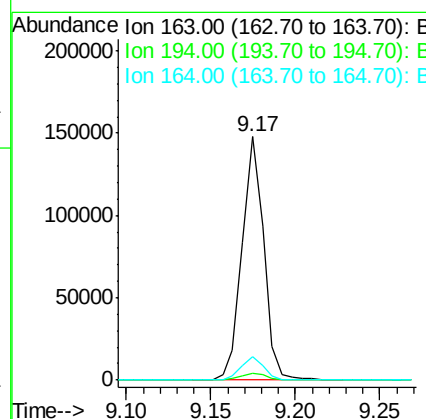
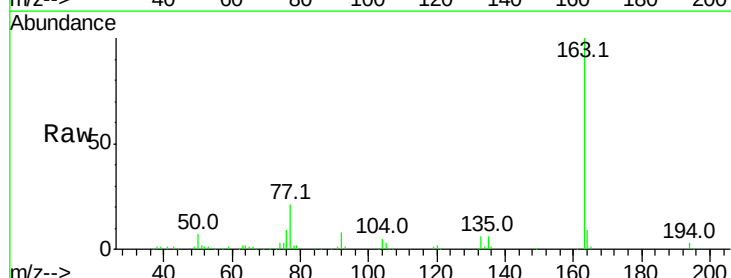
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1289672  
Ion Ratio Lower Upper  
172 100  
171 35.9 29.6 44.4  
170 23.9 19.8 29.8

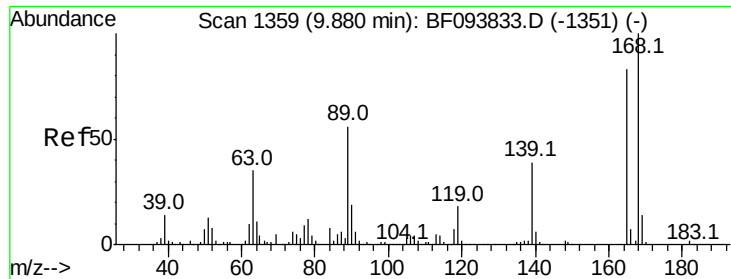


#49  
Dimethylphthalate  
Concen: 6.64 ng  
RT: 9.17 min Scan# 1239  
Delta R.T. -0.02 min  
Lab File: BF094261.D  
Acq: 7 Apr 2017 8:44

Tgt Ion:163 Resp: 132142  
Ion Ratio Lower Upper  
163 100  
194 2.9 2.6 4.0  
164 9.4 8.4 12.6



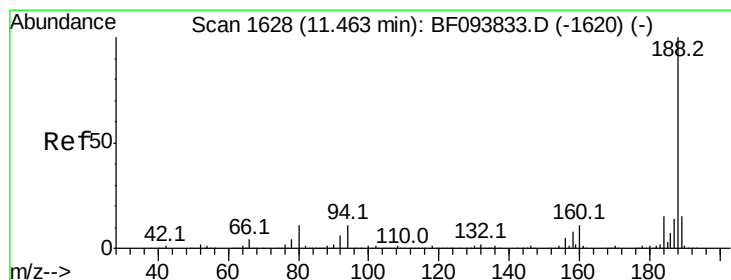
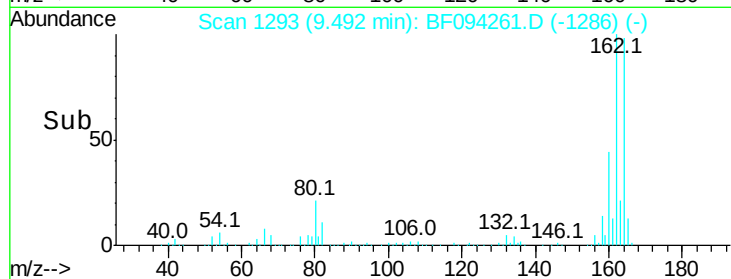
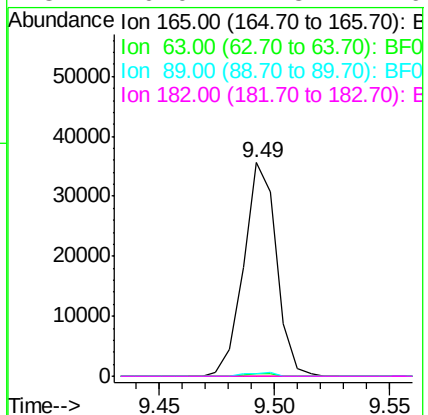
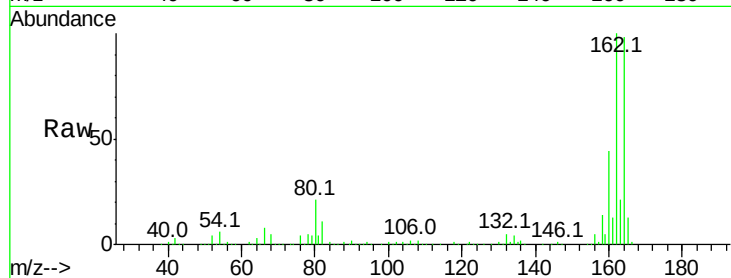




#56  
 2,4-Dinitrotoluene  
 Concen: 6.18 ng  
 RT: 9.49 min Scan# 1293  
 Delta R.T. -0.26 min  
 Lab File: BF094261.D  
 Acq: 7 Apr 2017 8:44

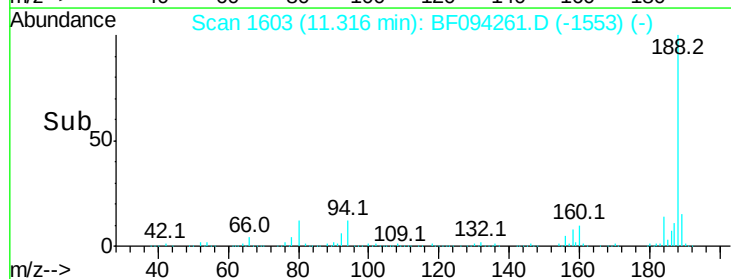
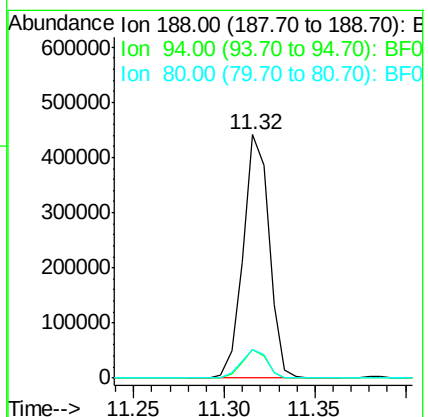
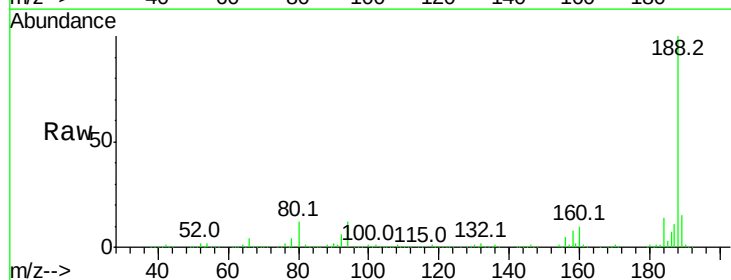
Instrument :  
 BNA\_F  
 ClientSampled :

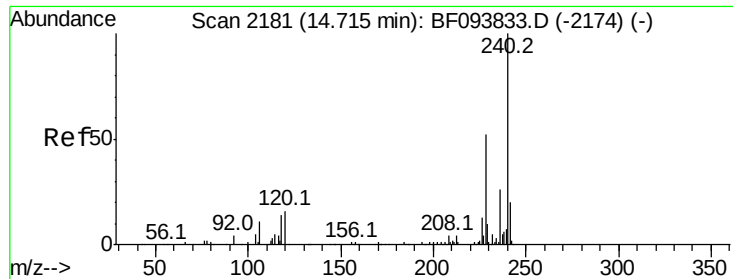
| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 165     | 100   | 35385 |       |       |
| 63      | 1.1   | 25.4  | 38.0# |       |
| 89      | 1.2   | 46.4  | 69.6# |       |
| 182     | 0.0   | 1.8   | 2.6#  |       |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.32 min Scan# 1603  
 Delta R.T. -0.01 min  
 Lab File: BF094261.D  
 Acq: 7 Apr 2017 8:44

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 441304 |       |       |
| 94      | 11.6  | 9.4    | 14.2  |       |
| 80      | 11.7  | 10.2   | 15.2  |       |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.57 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BF094261.D

Acq: 7 Apr 2017 8:44

Instrument :

BNA\_F

ClientSampleId :

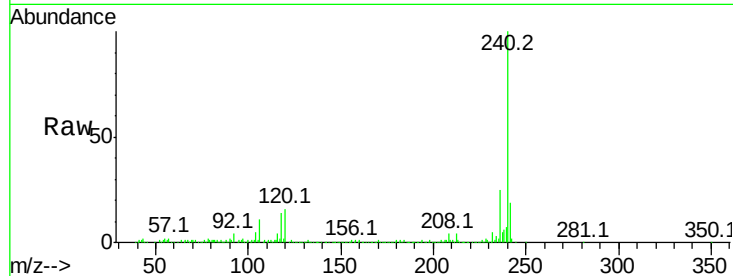
Tot Ion:240 Resp: 306545

Ion Ratio Lower Upper

240 100

120 16.3 5.8 8.8#

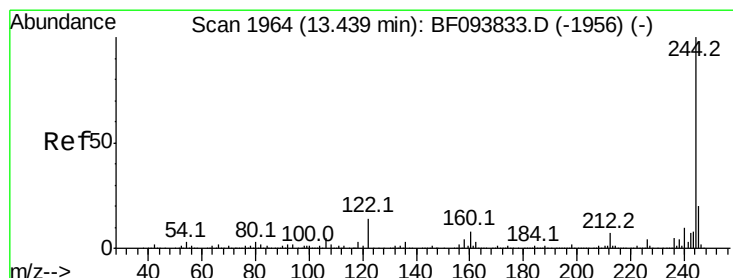
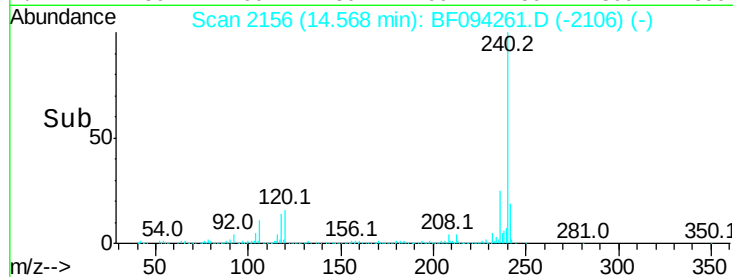
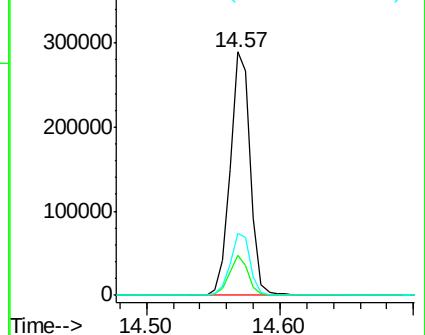
236 25.5 20.5 30.7



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: 56.94 ng

RT: 13.30 min Scan# 1940

Delta R.T. -0.00 min

Lab File: BF094261.D

Acq: 7 Apr 2017 8:44

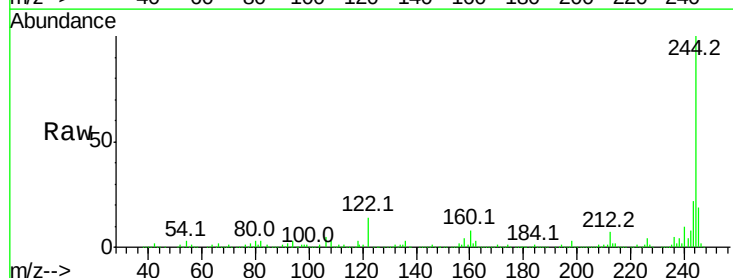
Tgt Ion:244 Resp: 778661

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

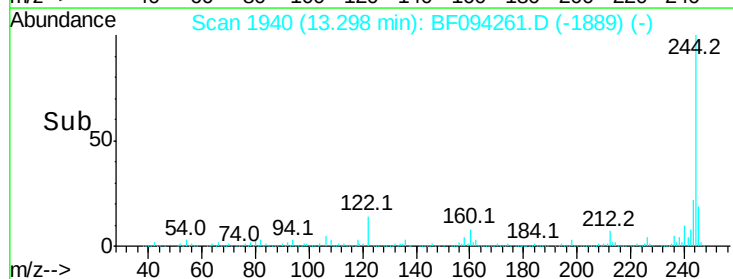
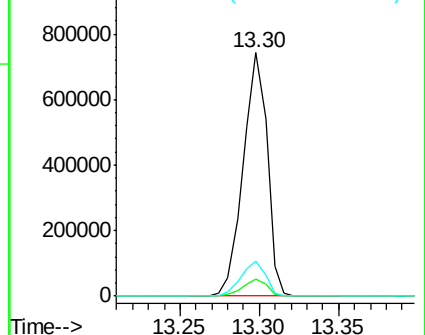
122 14.5 10.3 15.5

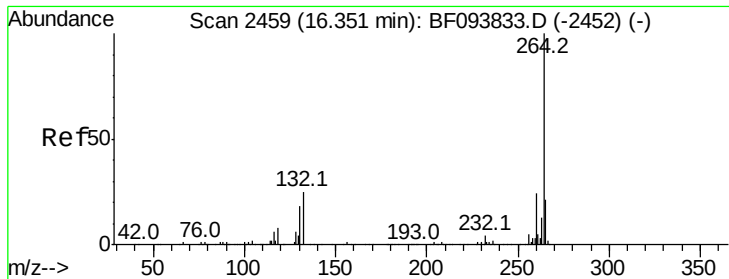


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

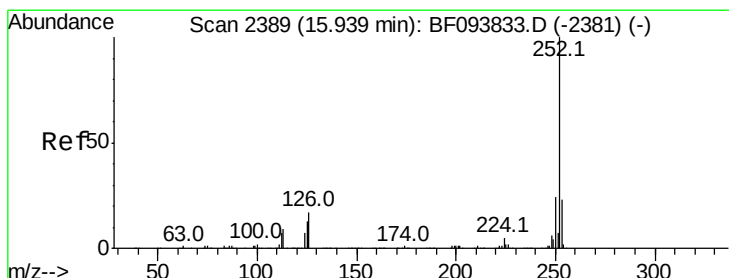
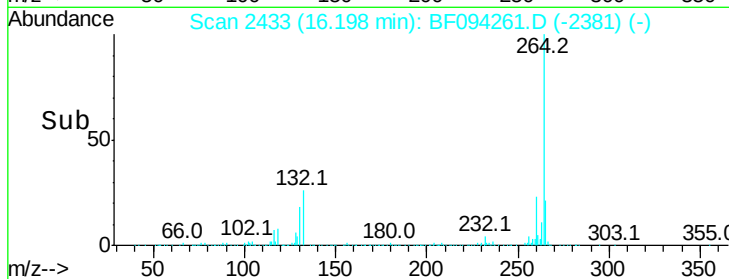
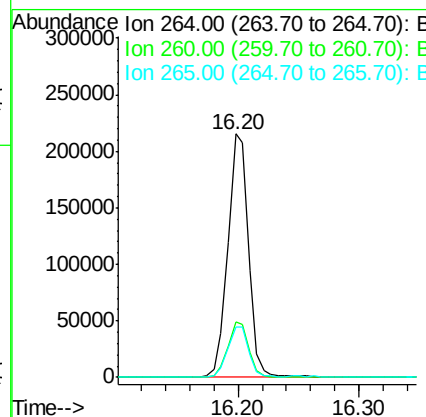
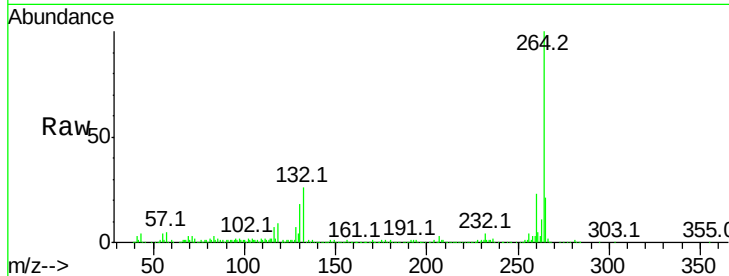




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 16.20 min Scan# 2433  
Delta R.T. 0.01 min  
Lab File: BF094261.D  
Acq: 7 Apr 2017 8:44

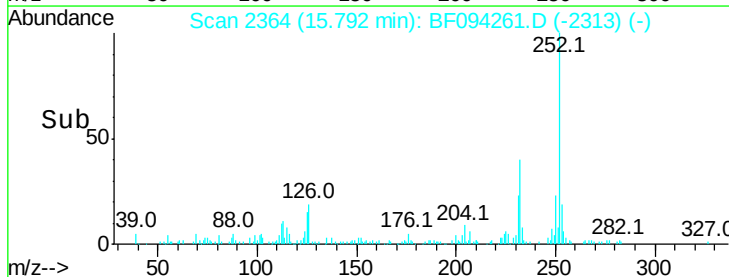
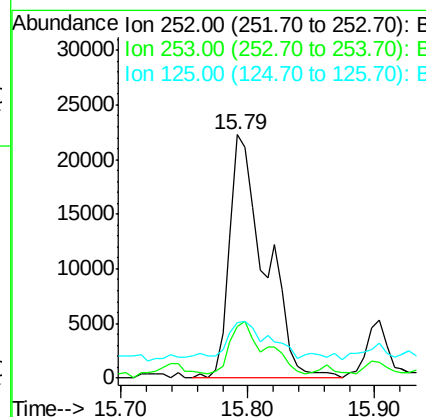
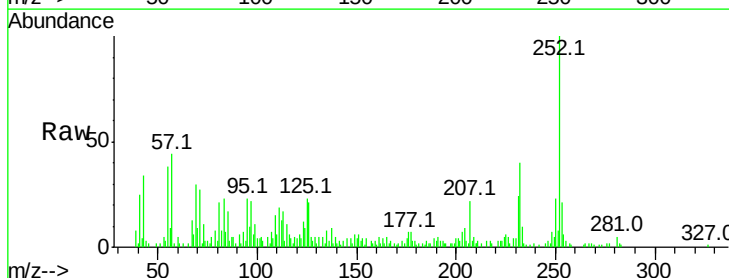
Instrument :  
BNA\_F  
ClientSampled :

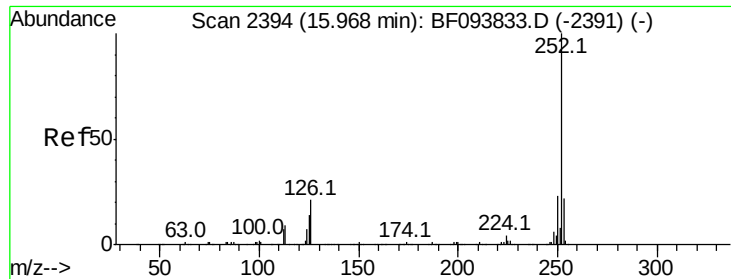
Tot Ion:264 Resp: 255190  
Ion Ratio Lower Upper  
264 100  
260 23.0 19.5 29.3  
265 20.7 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 2.77 ng  
RT: 15.79 min Scan# 2364  
Delta R.T. -0.00 min  
Lab File: BF094261.D  
Acq: 7 Apr 2017 8:44

Tgt Ion:252 Resp: 43374  
Ion Ratio Lower Upper  
252 100  
253 21.1 18.1 27.1  
125 22.8 9.8 14.8#





#88

Benzo(k)fluoranthene

Concen: 2.83 ng

RT: 15.79 min Scan# 2364

Delta R.T. -0.04 min

Lab File: BF094261.D

Acq: 7 Apr 2017 8:44

Instrument :

BNA\_F

ClientSampleId :

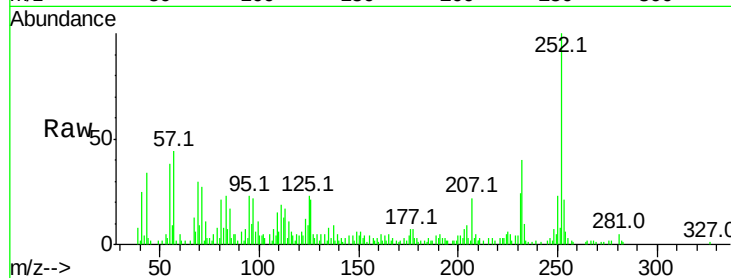
Tot Ion:252 Resp: 43374

Ion Ratio Lower Upper

252 100

253 21.1 18.4 27.6

125 22.8 13.1 19.7#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

