

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032717\  
 Data File : BF093981.D  
 Acq On : 28 Mar 2017 9:19  
 Operator : SJ/MA  
 Sample : I2388-02  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 032217-PRRT-E-U-M

Quant Time: Mar 28 13:34:11 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   | 5.94  | 152  | 173980   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 7.44  | 136  | 694837   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.59  | 164  | 303226   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.41 | 188  | 497577   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12            | 14.66 | 240  | 334323   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12            | 16.29 | 264  | 294615   | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 4.46  | 112  | 562777   | 54.63 | ng    | -0.01    |
| 7) Phenol-d6                | 5.53  | 99   | 460714   | 36.15 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 6.59  | 82   | 985952   | 80.98 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.56 | 330  | 213466   | 89.09 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 8.77  | 172  | 1721024  | 86.57 | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.39 | 244  | 1199886  | 80.45 | ng    | -0.01    |

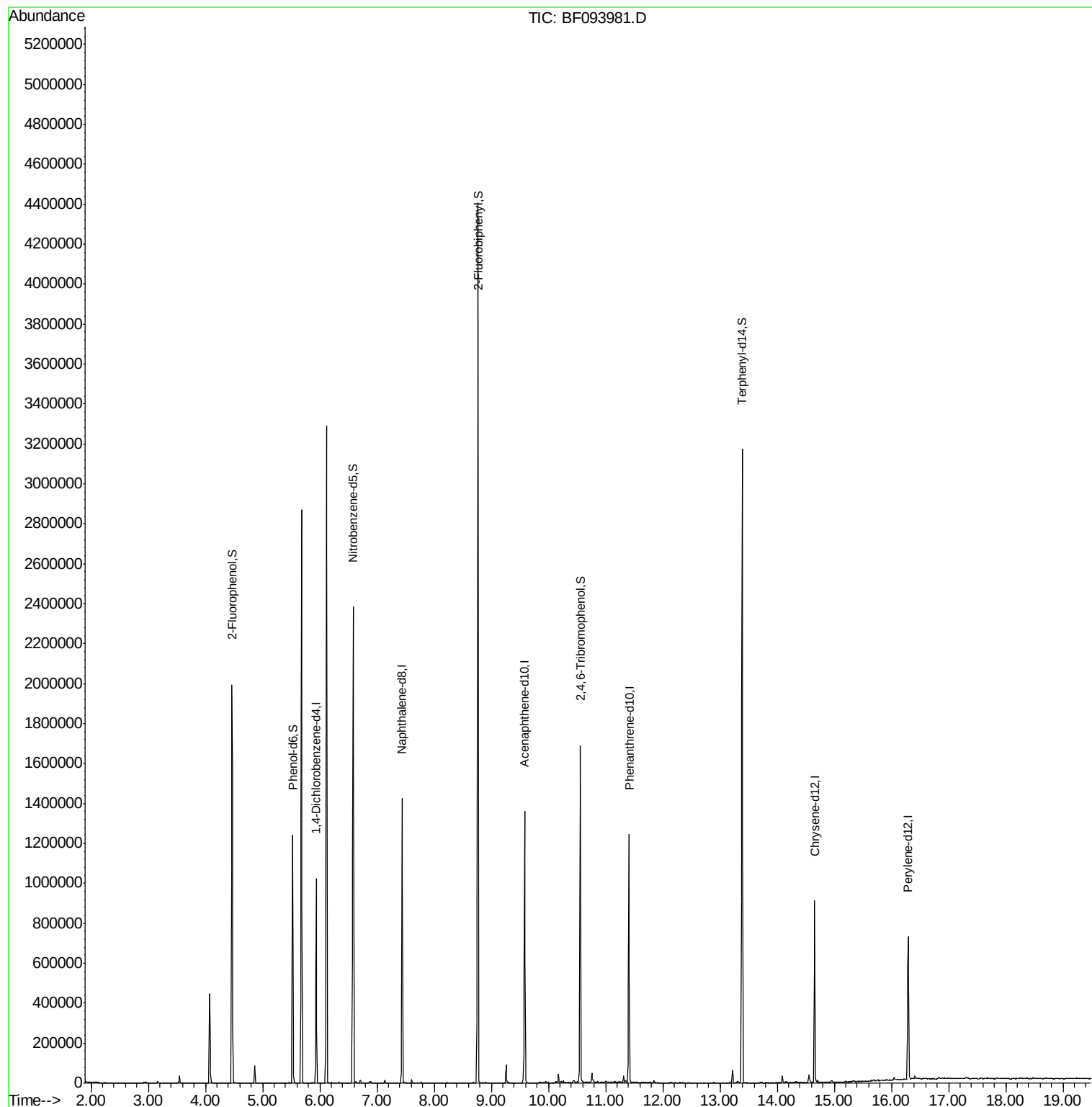
Target Compounds Qvalue

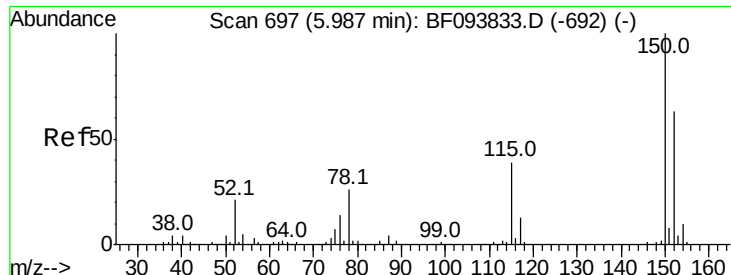
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.94 min Scan# 689

Delta R.T. -0.01 min

Lab File: BF093981.D

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Instrument :

BNA\_F

ClientSampleId :

032217-PRRT-E-U-M

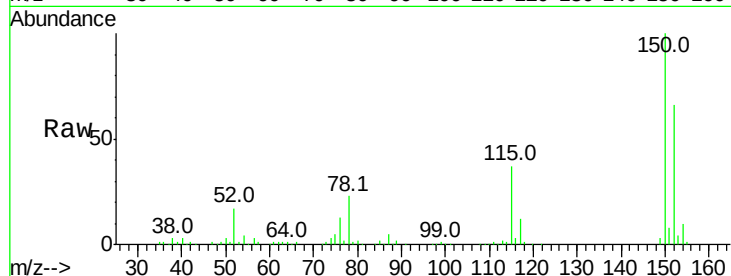
Tot Ion:152 Resp: 173980

Ion Ratio Lower Upper

152 100

150 152.4 126.2 189.2

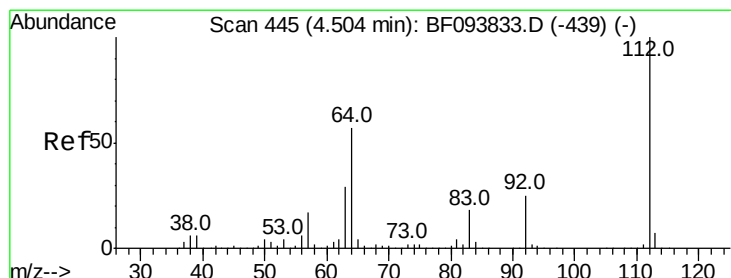
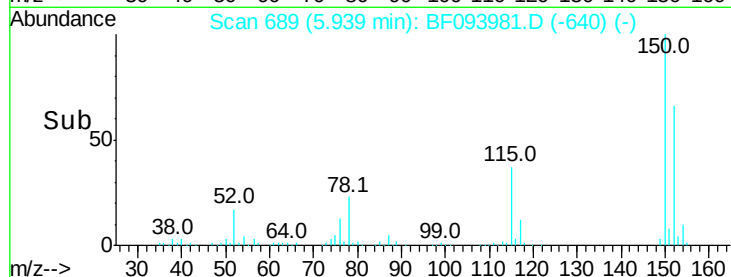
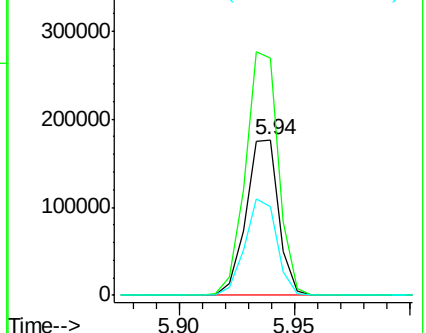
115 56.8 52.2 78.2



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: 54.63 ng

RT: 4.46 min Scan# 438

Delta R.T. -0.01 min

Lab File: BF093981.D

Acq: 28 Mar 2017 9:19

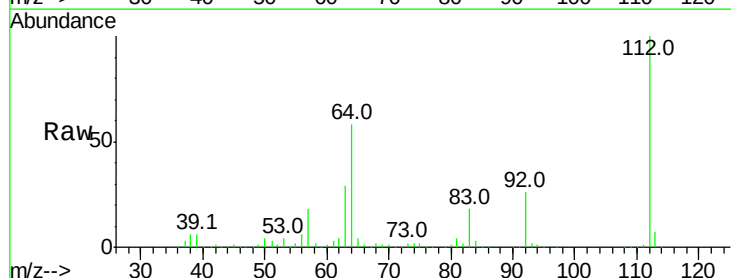
Tgt Ion:112 Resp: 562777

Ion Ratio Lower Upper

112 100

64 57.6 46.0 69.0

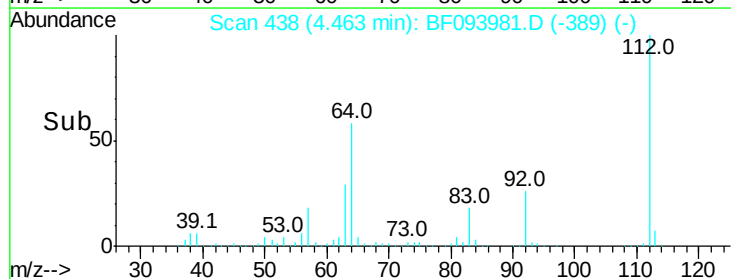
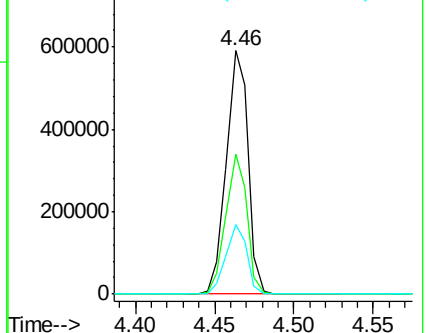
63 28.7 23.4 35.0

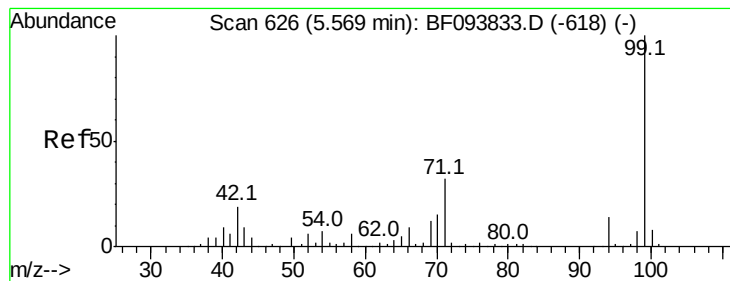


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 36.15 ng

RT: 5.53 min Scan# 619

Delta R.T. -0.02 min

Lab File: BF093981.D

Acq: 28 Mar 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

032217-PRRT-E-U-M

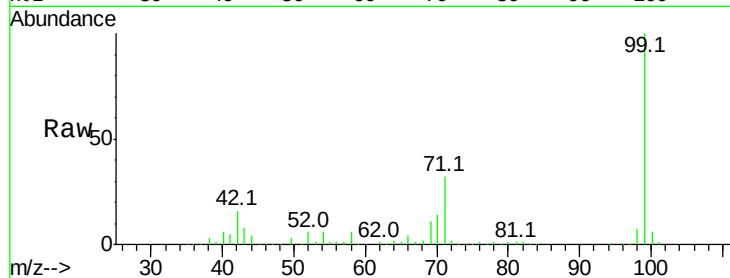
Tot Ion: 99 Resp: 460714

Ion Ratio Lower Upper

99 100

42 15.8 13.5 20.3

71 31.9 24.5 36.7

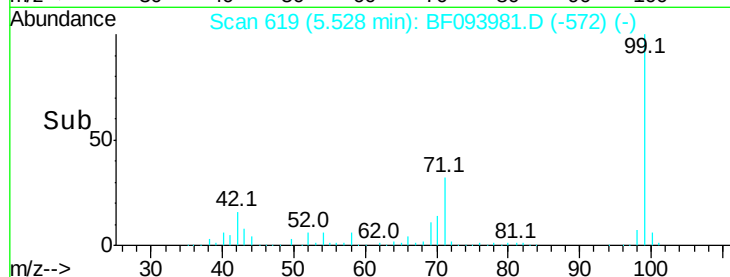


Abundance Ion 99.00 (98.70 to 99.70): BF0

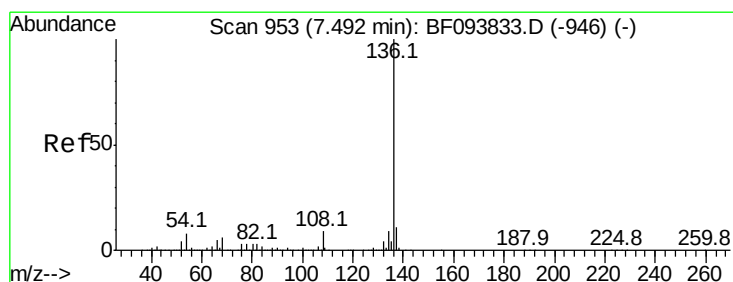
Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

5.53



Time--> 5.45 5.50 5.55 5.60



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.44 min Scan# 944

Delta R.T. -0.02 min

Lab File: BF093981.D

Acq: 28 Mar 2017 9:19

Tgt Ion: 136 Resp: 694837

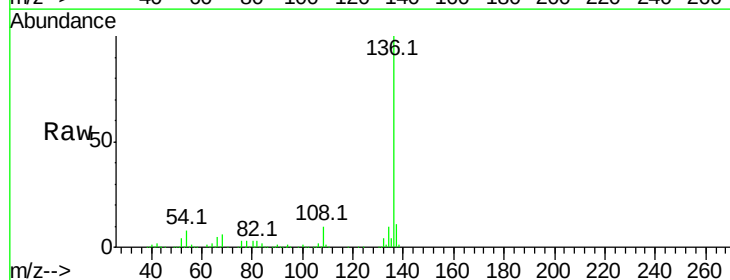
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.8 4.9 7.3#

68 6.1 4.1 6.1



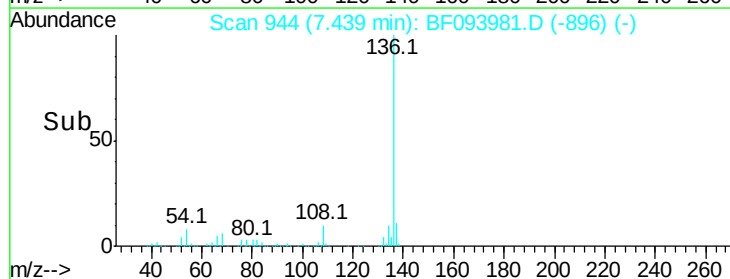
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

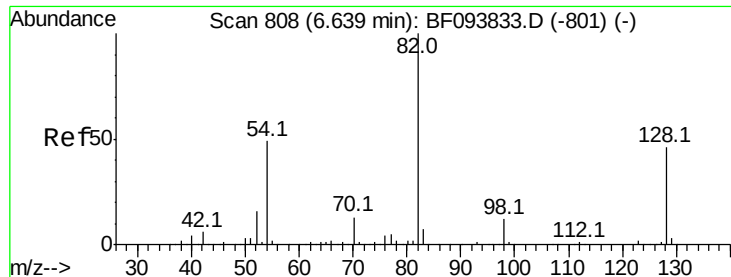
Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

7.44



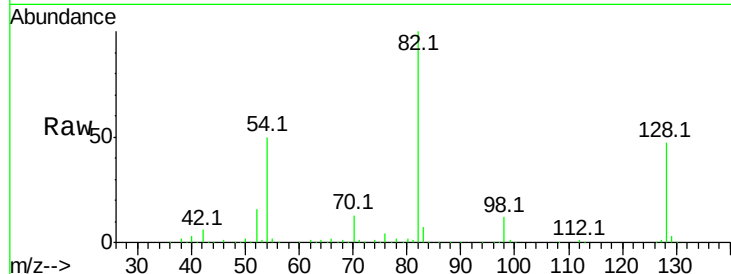
Time--> 7.35 7.40 7.45 7.50 7.55



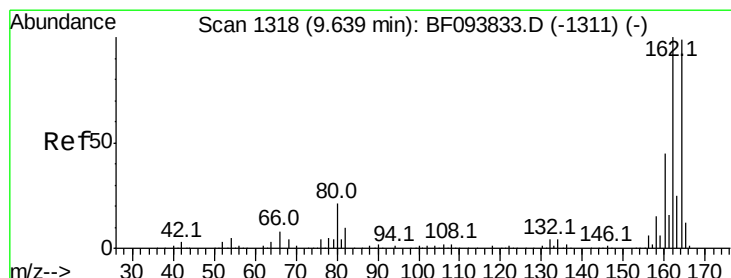
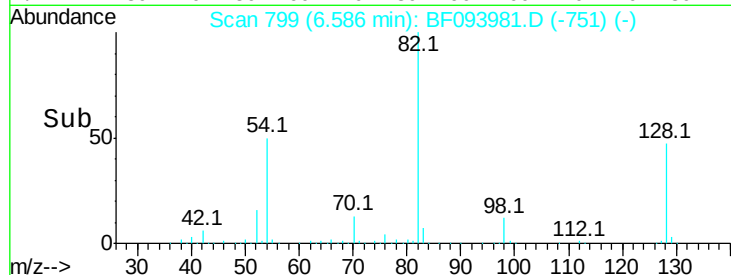
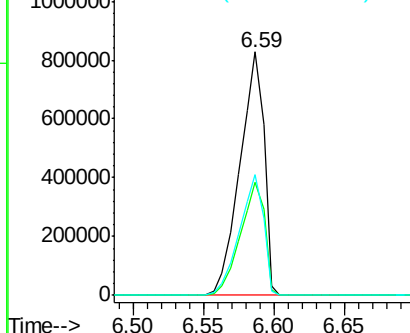
#23  
 Nitrobenzene-d5  
 Concen: 80.98 ng  
 RT: 6.59 min Scan# 799  
 Delta R.T. -0.02 min  
 Lab File: BF093981.D  
 Acq: 28 Mar 2017 9:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 032217-PRRT-E-U-M

Tot Ion: 82 Resp: 985952  
 Ion Ratio Lower Upper  
 82 100  
 128 46.5 34.0 51.0  
 54 49.7 42.2 63.2

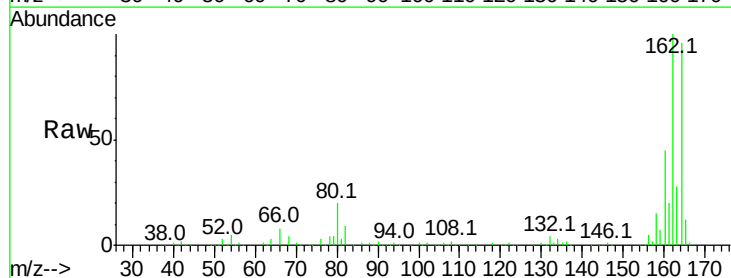


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

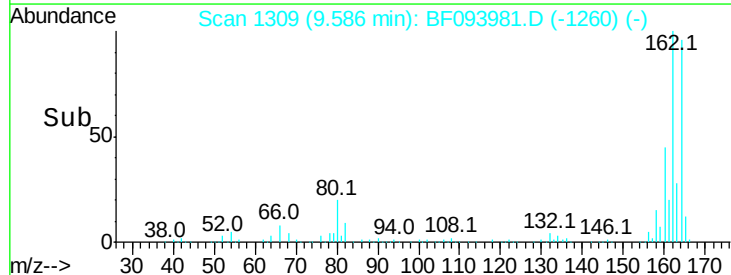
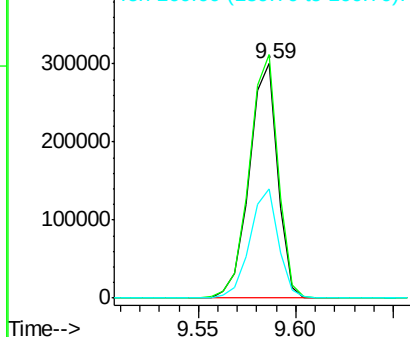


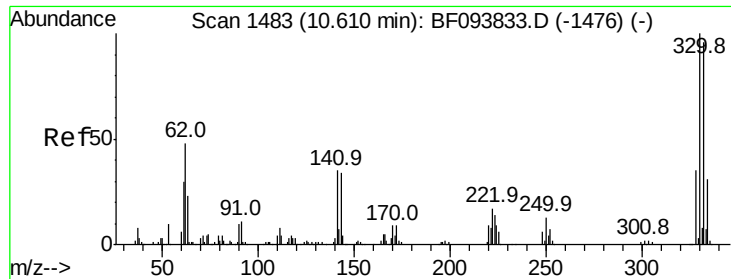
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.59 min Scan# 1309  
 Delta R.T. -0.01 min  
 Lab File: BF093981.D  
 Acq: 28 Mar 2017 9:19

Tgt Ion:164 Resp: 303226  
 Ion Ratio Lower Upper  
 164 100  
 162 103.8 82.6 123.8  
 160 46.8 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

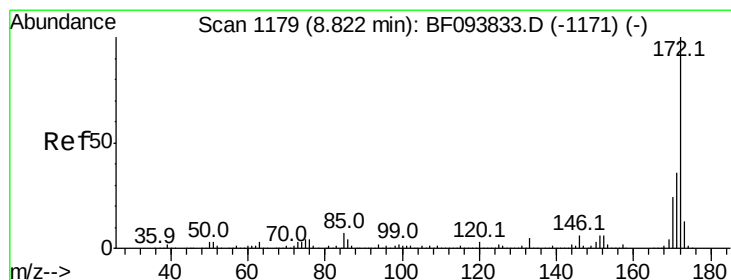
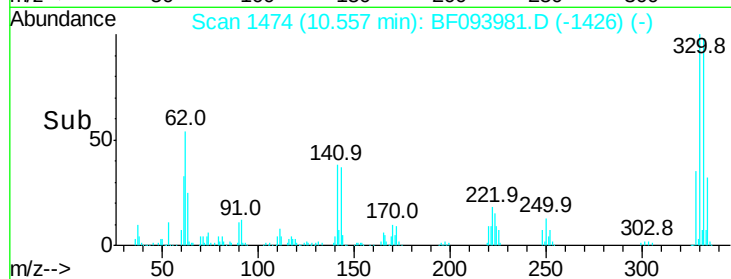
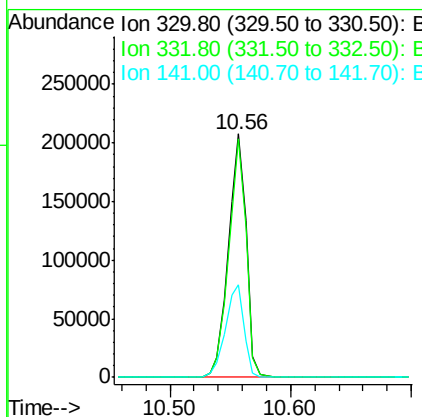
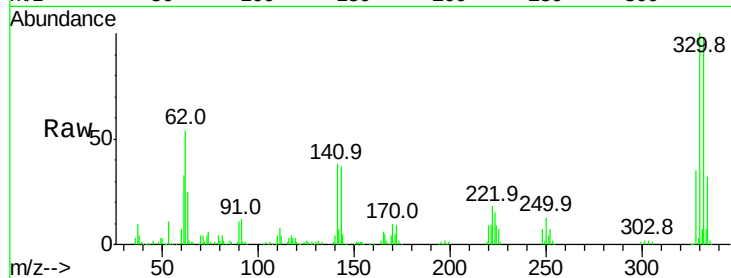




#41  
 2,4,6-Tribromophenol  
 Concen: 89.09 ng  
 RT: 10.56 min Scan# 1474  
 Delta R.T. -0.02 min  
 Lab File: BF093981.D  
 Acq: 28 Mar 2017 9:19

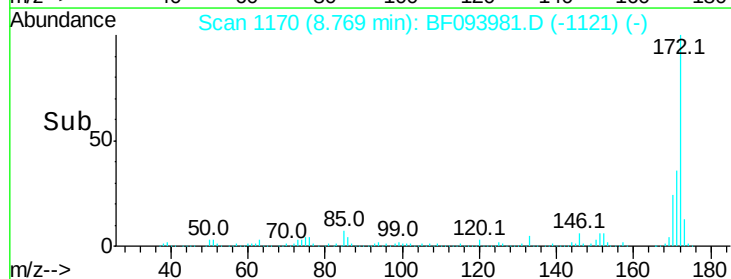
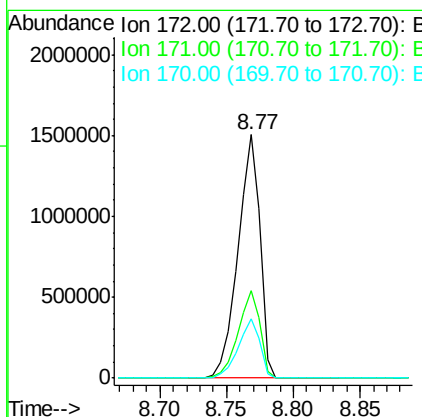
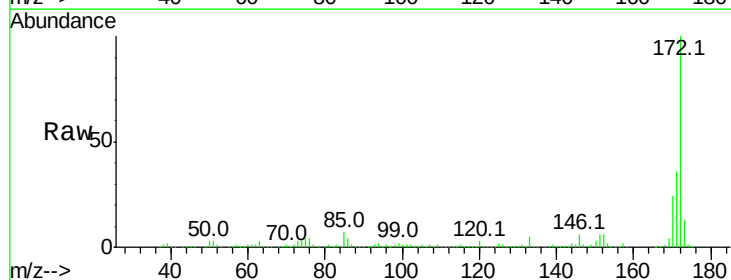
Instrument :  
 BNA\_F  
 ClientSampleId :  
 032217-PRRT-E-U-M

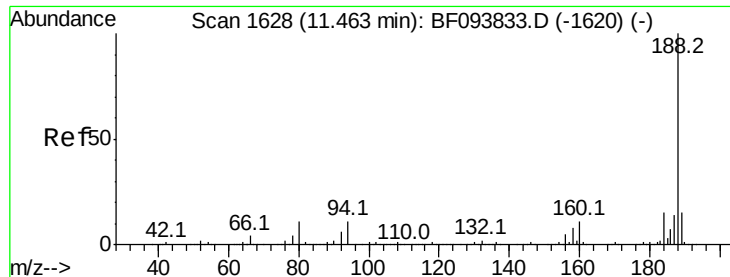
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.9  | 76.6  | 115.0 |
| 141     | 39.3  | 31.4  | 47.2  |



#44  
 2-Fluorobiphenyl  
 Concen: 86.57 ng  
 RT: 8.77 min Scan# 1170  
 Delta R.T. -0.01 min  
 Lab File: BF093981.D  
 Acq: 28 Mar 2017 9:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.6  | 44.4  |
| 170     | 24.1  | 19.8  | 29.8  |





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.41 min Scan# 1619

Delta R.T. -0.01 min

Lab File: BF093981.D

Acq: 28 Mar 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

032217-PRRT-E-U-M

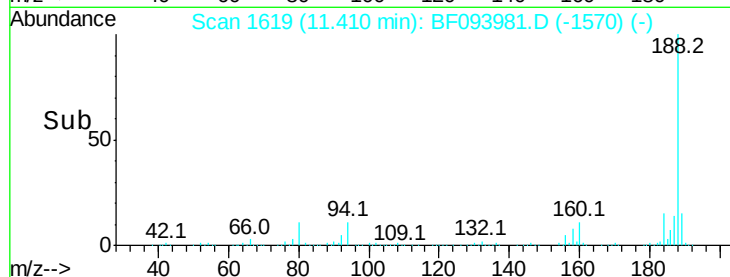
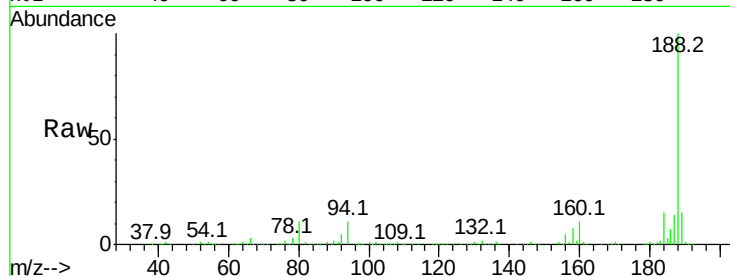
Tot Ion:188 Resp: 497577

Ion Ratio Lower Upper

188 100

94 10.6 9.4 14.2

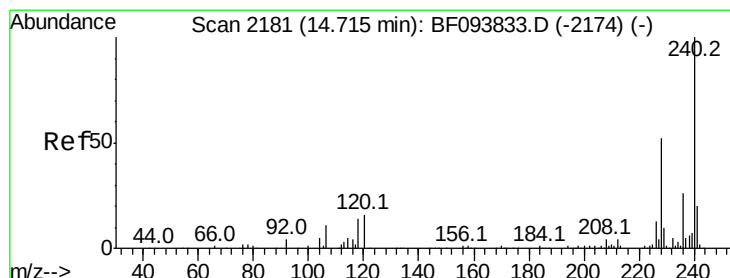
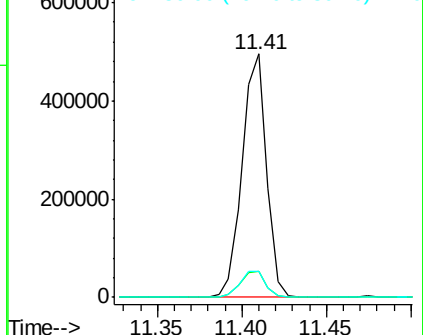
80 10.8 10.2 15.2



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: 14.66 min Scan# 2171

Delta R.T. -0.02 min

Lab File: BF093981.D

Acq: 28 Mar 2017 9:19

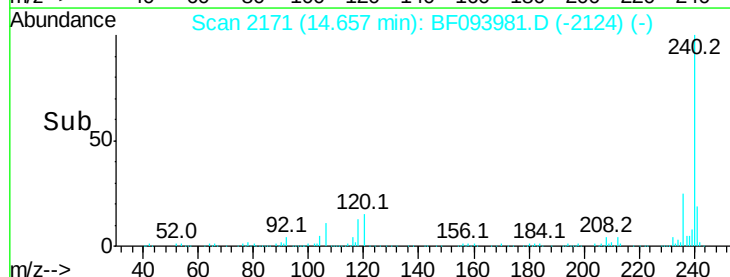
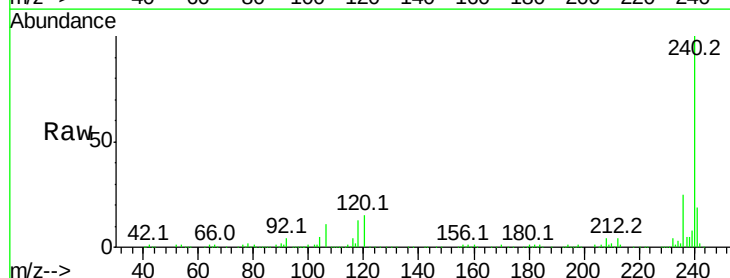
Tgt Ion:240 Resp: 334323

Ion Ratio Lower Upper

240 100

120 15.1 5.8 8.8#

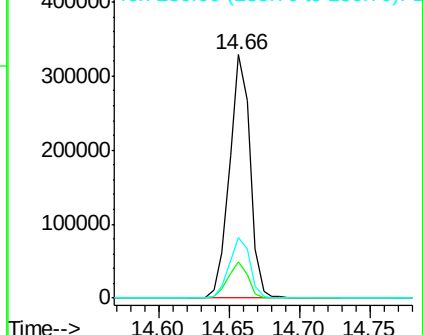
236 24.7 20.5 30.7

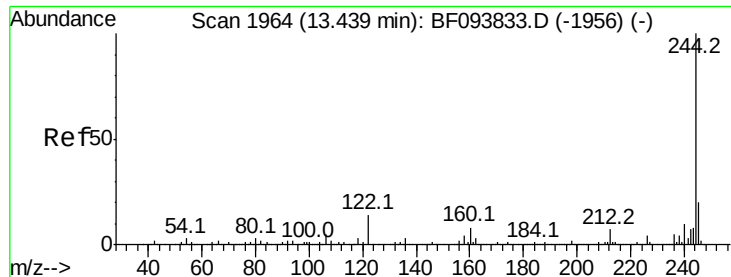


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 80.45 ng

RT: 13.39 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BF093981.D

Acq: 28 Mar 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

032217-PRRT-E-U-M

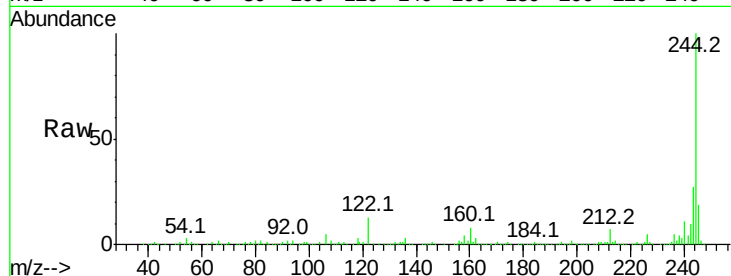
Tot Ion:244 Resp: 1199886

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

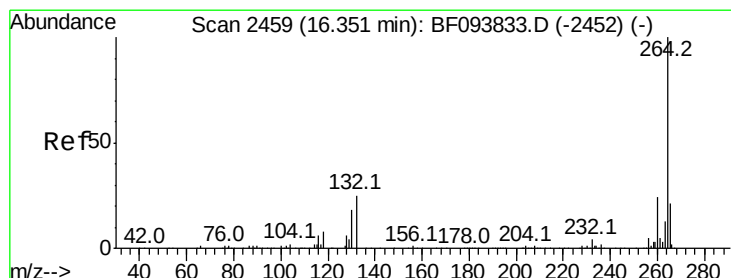
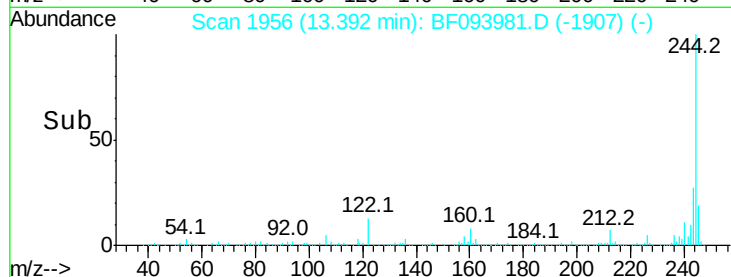
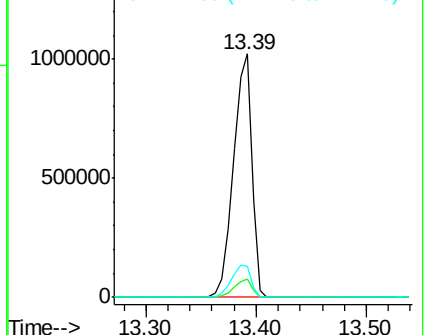
122 12.9 10.3 15.5



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

Perylene-d12

Concen: 20.00 ng

RT: 16.29 min Scan# 2449

Delta R.T. -0.02 min

Lab File: BF093981.D

Acq: 28 Mar 2017 9:19

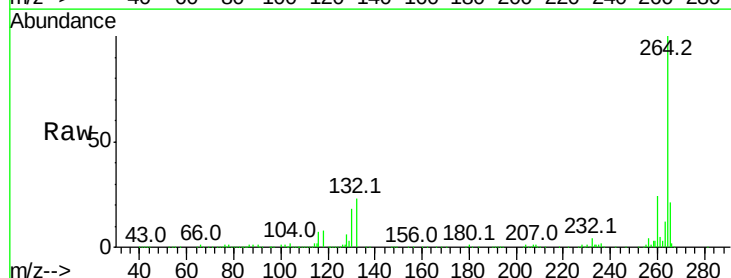
Tgt Ion:264 Resp: 294615

Ion Ratio Lower Upper

264 100

260 23.9 19.5 29.3

265 21.0 17.2 25.8



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

