

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF072816\  
 Data File : BF089353.D  
 Acq On : 28 Jul 2016 8:24  
 Operator : UM/SJ  
 Sample : H4157-26  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 I-23

Quant Time: Jul 28 12:21:00 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF072716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 27 17:12:17 2016  
 Response via : Initial Calibration

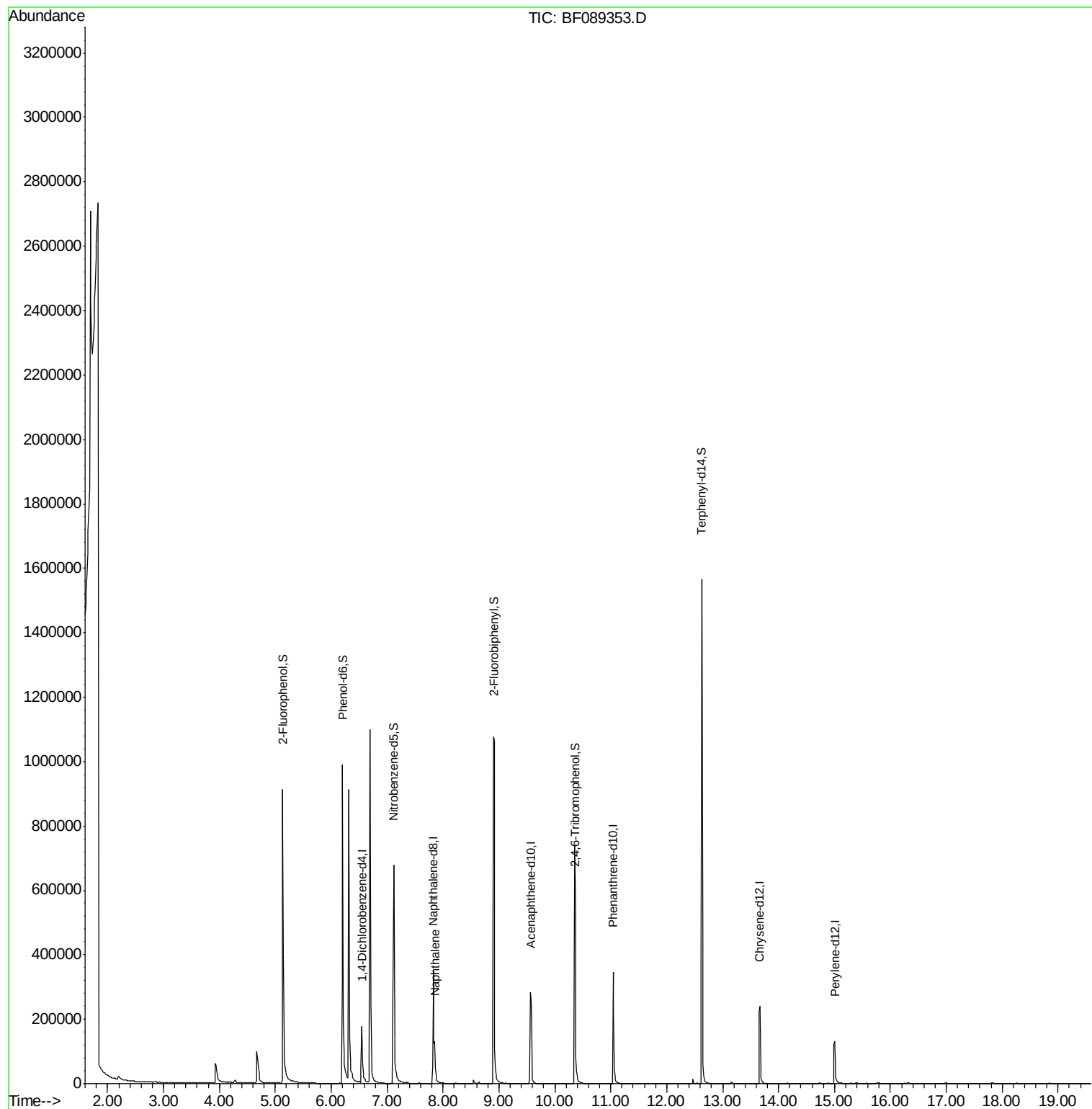
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.55  | 152  | 42293    | 20.00  | ng    | 0.00         |
| 21) Naphthalene-d8          | 7.83  | 136  | 198613   | 20.00  | ng    | 0.00         |
| 38) Acenaphthene-d10        | 9.56  | 164  | 88877    | 20.00  | ng    | -0.01        |
| 63) Phenanthrene-d10        | 11.04 | 188  | 192243   | 20.00  | ng    | -0.01        |
| 75) Chrysene-d12            | 13.67 | 240  | 139431   | 20.00  | ng    | 0.00         |
| 86) Perylene-d12            | 15.01 | 264  | 76534    | 20.00  | ng    | 0.00         |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.13  | 112  | 353227   | 133.36 | ng    | 0.02         |
| 7) Phenol-d6                | 6.20  | 99   | 462645   | 132.17 | ng    | 0.00         |
| 23) Nitrobenzene-d5         | 7.12  | 82   | 346732   | 103.05 | ng    | 0.00         |
| 41) 2,4,6-Tribromophenol    | 10.36 | 330  | 119312   | 162.09 | ng    | 0.00         |
| 44) 2-Fluorobiphenyl        | 8.91  | 172  | 619438   | 102.28 | ng    | 0.00         |
| 78) Terphenyl-d14           | 12.63 | 244  | 558787   | 93.80  | ng    | 0.00         |
| Target Compounds            |       |      |          |        |       |              |
| 31) Naphthalene             | 7.85  | 128  | 78910    | 8.02   | ng    | Qvalue<br>99 |

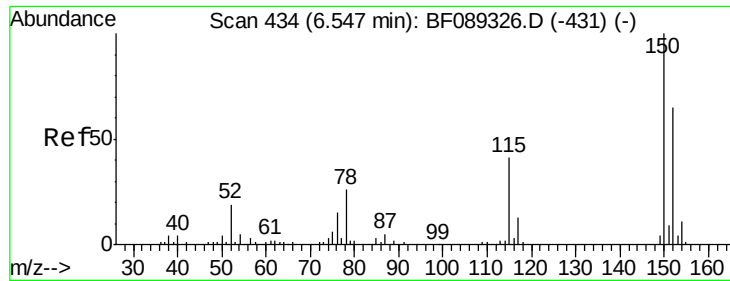
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 27 17:12:17 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.55 min Scan# 434

Delta R.T. 0.00 min

Lab File: BF089353.D

Acq: 28 Jul 2016 8:24

Instrument :

BNA\_F

ClientSampleId :

I-23

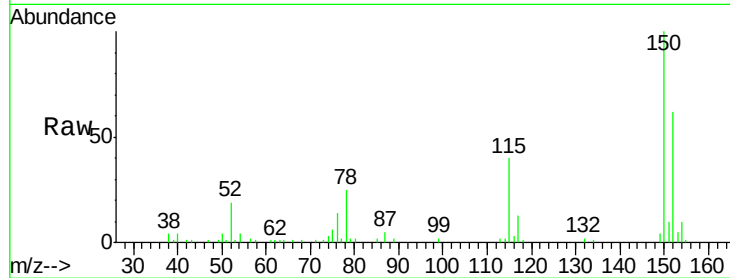
Tgt Ion:152 Resp: 42293

Ion Ratio Lower Upper

152 100

150 161.4 129.5 194.3

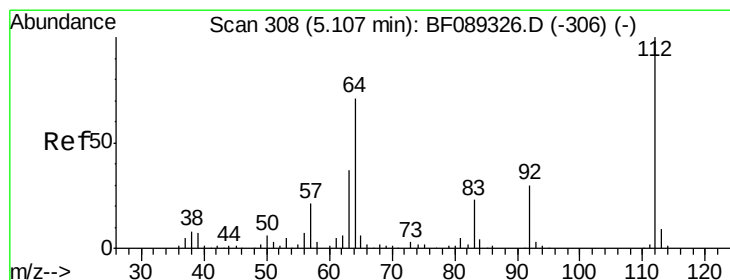
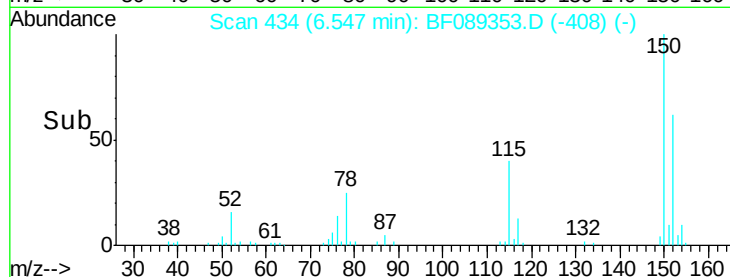
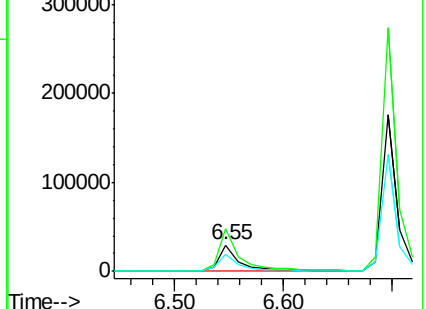
115 64.3 51.4 77.2



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: 133.36 ng

RT: 5.13 min Scan# 310

Delta R.T. 0.02 min

Lab File: BF089353.D

Acq: 28 Jul 2016 8:24

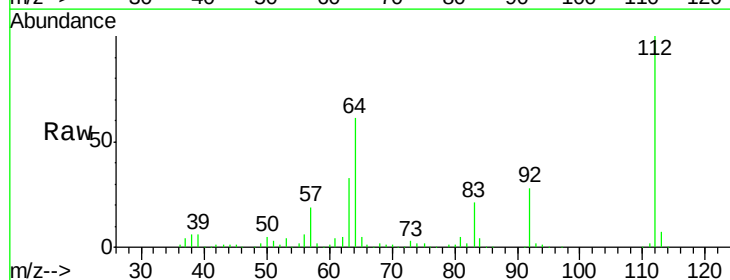
Tgt Ion:112 Resp: 353227

Ion Ratio Lower Upper

112 100

64 61.4 55.0 82.6

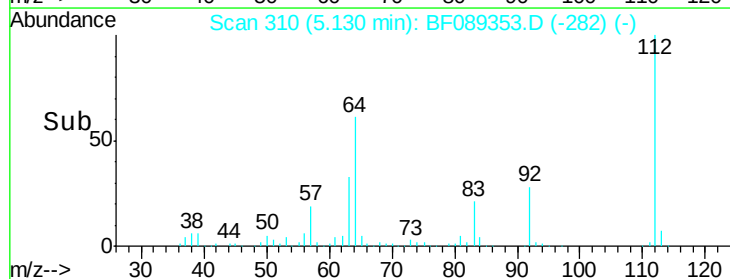
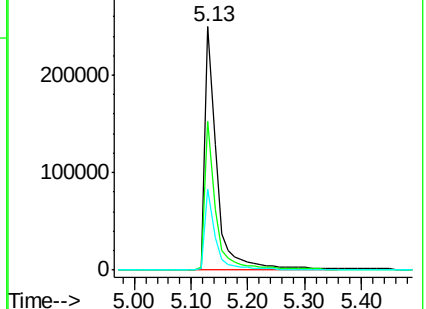
63 33.5 29.4 44.2

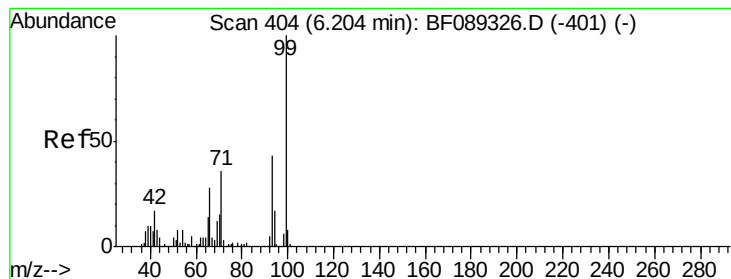


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 132.17 ng

RT: 6.20 min Scan# 404

Delta R.T. 0.00 min

Lab File: BF089353.D

Acq: 28 Jul 2016 8:24

Instrument :

BNA\_F

ClientSampleId :

I-23

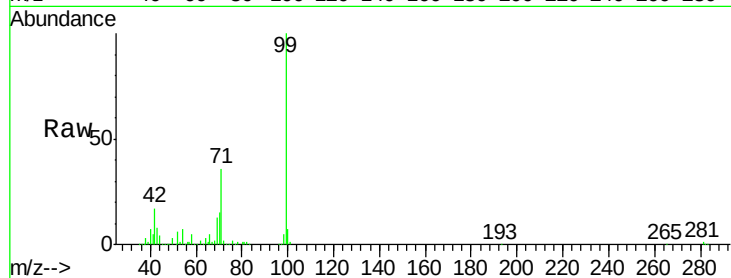
Tgt Ion: 99 Resp: 462645

Ion Ratio Lower Upper

99 100

42 16.5 13.6 20.4

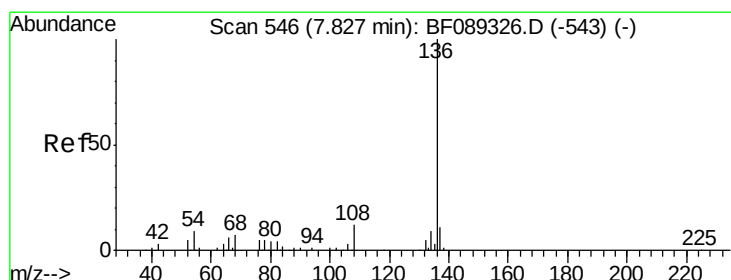
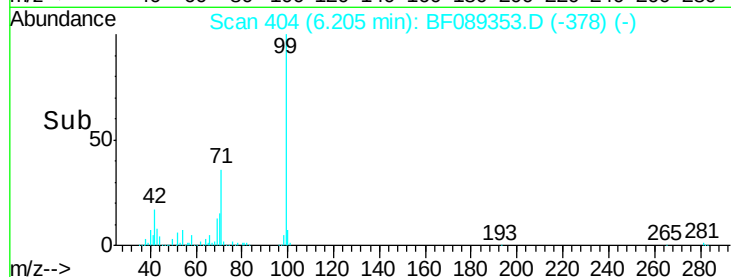
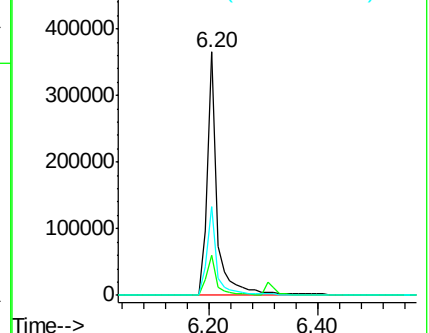
71 36.3 29.4 44.2



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: 7.83 min Scan# 546

Delta R.T. 0.00 min

Lab File: BF089353.D

Acq: 28 Jul 2016 8:24

Tgt Ion: 136 Resp: 198613

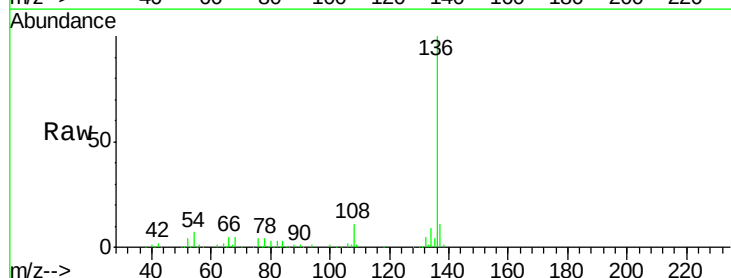
Ion Ratio Lower Upper

136 100

137 10.6 8.6 13.0

54 6.9 7.0 10.4

68 5.2 4.9 7.3

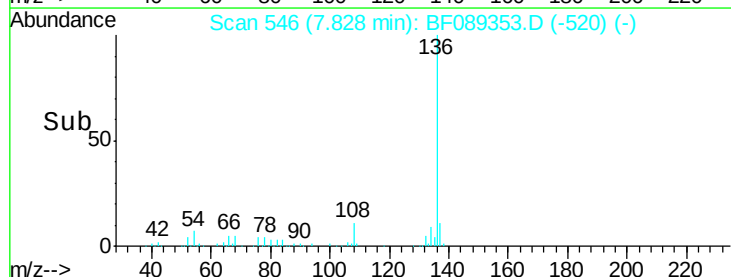
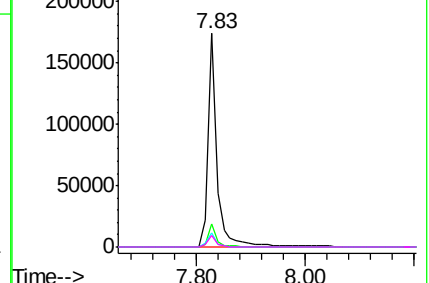


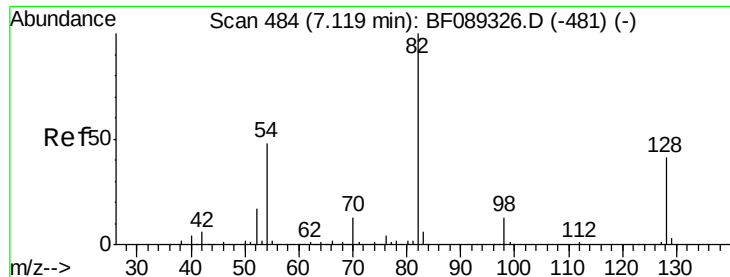
Abundance Ion 136.00 (135.70 to 136.70): E

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

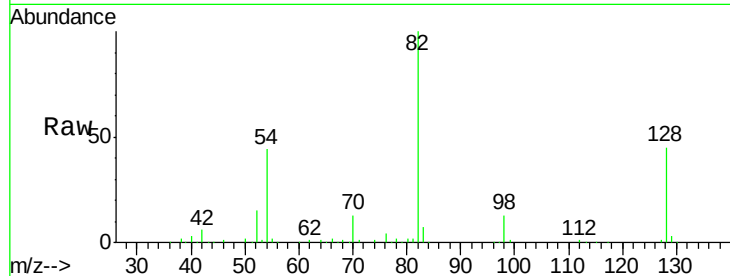




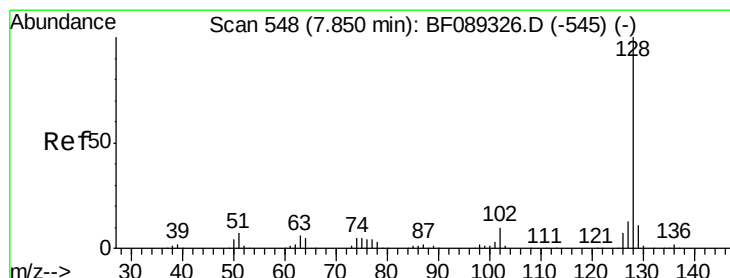
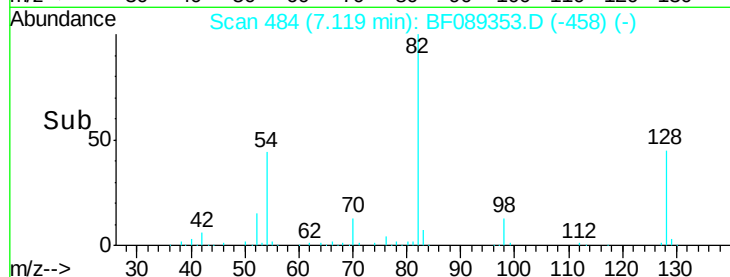
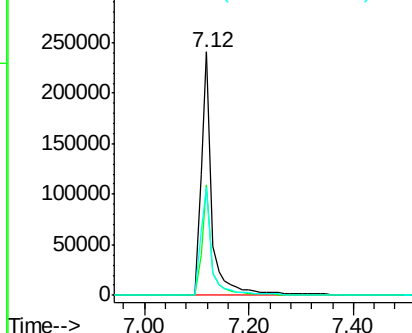
#23  
 Nitrobenzene-d5  
 Concen: 103.05 ng  
 RT: 7.12 min Scan# 484  
 Delta R.T. 0.00 min  
 Lab File: BF089353.D  
 Acq: 28 Jul 2016 8:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 I-23

Tgt Ion: 82 Resp: 346732  
 Ion Ratio Lower Upper  
 82 100  
 128 45.5 32.5 48.7  
 54 44.2 38.8 58.2

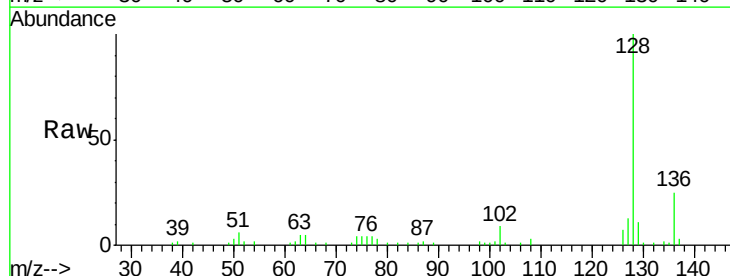


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

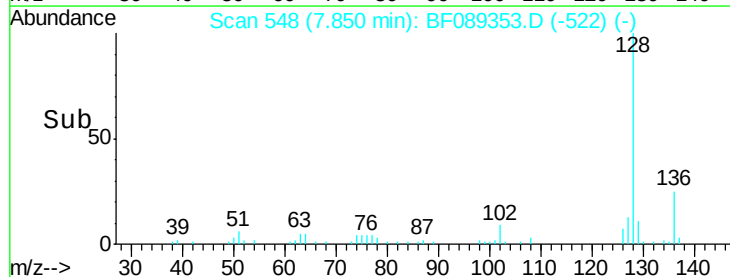
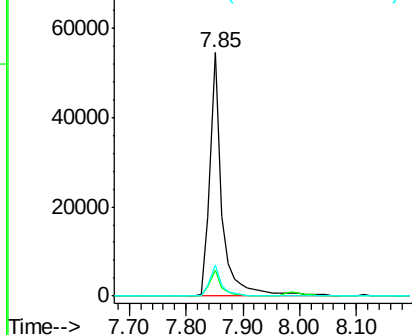


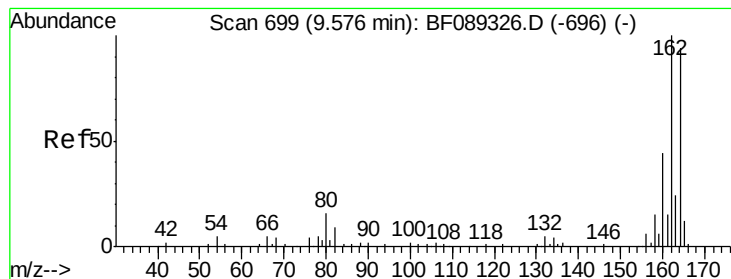
#31  
 Naphthalene  
 Concen: 8.02 ng  
 RT: 7.85 min Scan# 548  
 Delta R.T. 0.00 min  
 Lab File: BF089353.D  
 Acq: 28 Jul 2016 8:24

Tgt Ion: 128 Resp: 78910  
 Ion Ratio Lower Upper  
 128 100  
 129 10.9 8.8 13.2  
 127 13.0 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E  
 Ion 129.00 (128.70 to 129.70): E  
 Ion 127.00 (126.70 to 127.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.56 min Scan# 698

Delta R.T. -0.01 min

Lab File: BF089353.D

Acq: 28 Jul 2016 8:24

Instrument :

BNA\_F

ClientSampleId :

I-23

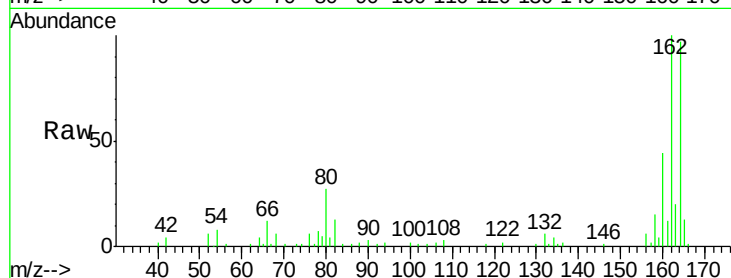
Tgt Ion:164 Resp: 88877

Ion Ratio Lower Upper

164 100

162 103.5 83.7 125.5

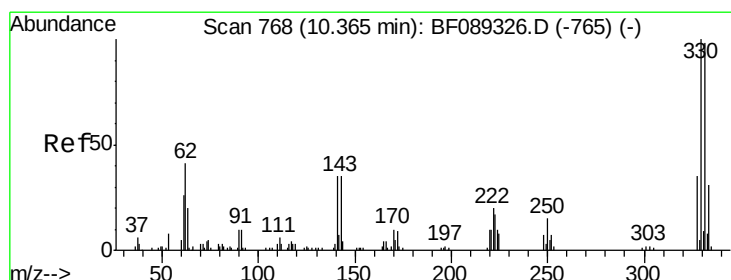
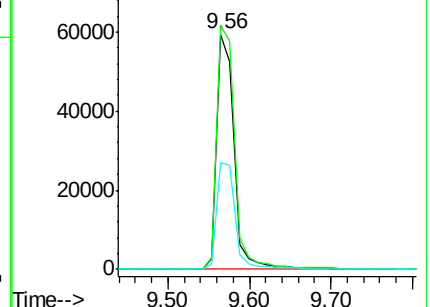
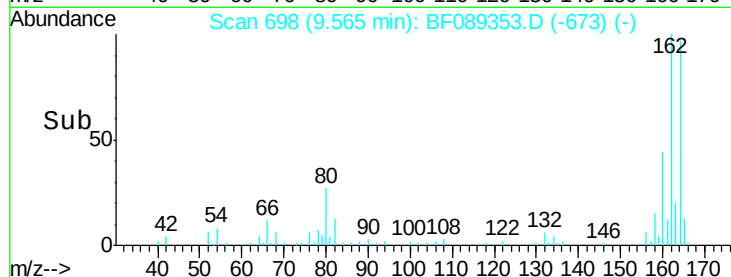
160 45.5 37.8 56.6



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: 162.09 ng

RT: 10.36 min Scan# 768

Delta R.T. 0.00 min

Lab File: BF089353.D

Acq: 28 Jul 2016 8:24

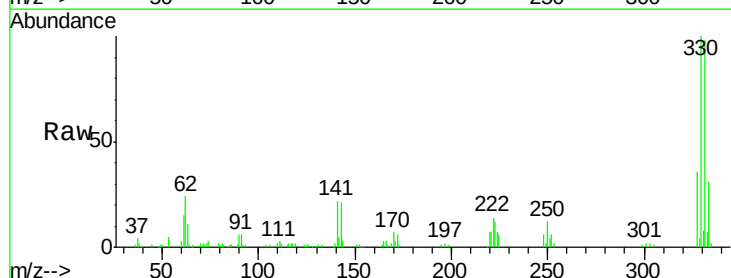
Tgt Ion:330 Resp: 119312

Ion Ratio Lower Upper

330 100

332 97.7 76.8 115.2

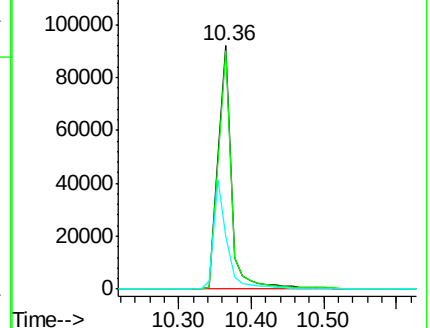
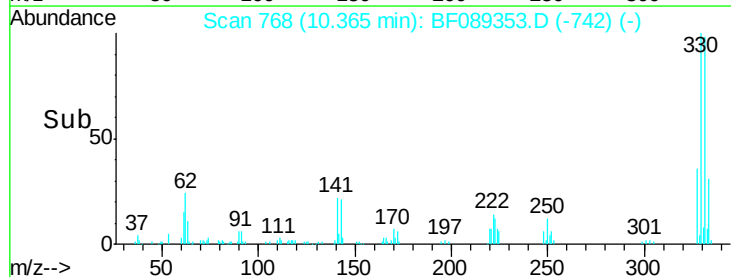
141 43.7 37.3 55.9

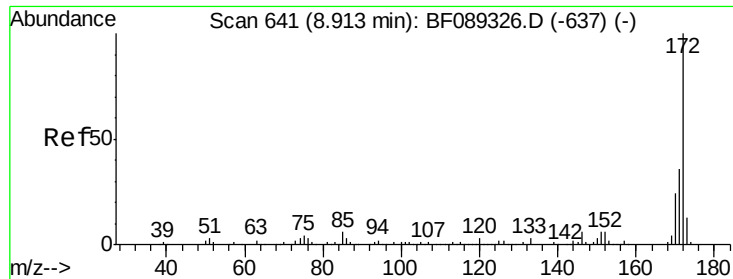


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

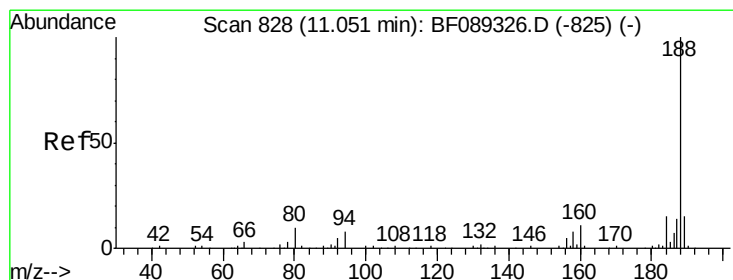
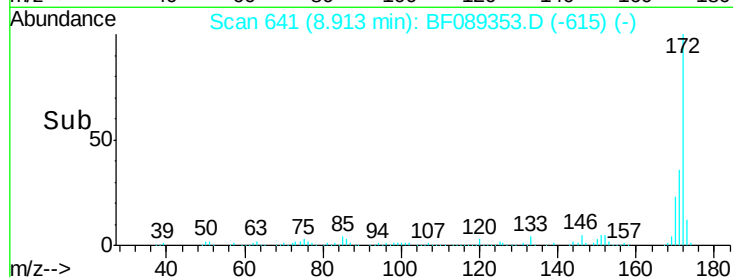
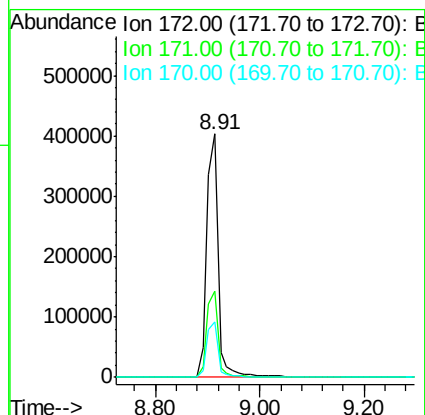
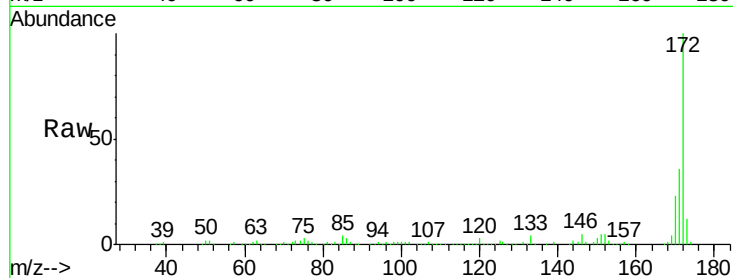




#44  
 2-Fluorobiphenyl  
 Concen: 102.28 ng  
 RT: 8.91 min Scan# 641  
 Delta R.T. 0.00 min  
 Lab File: BF089353.D  
 Acq: 28 Jul 2016 8:24

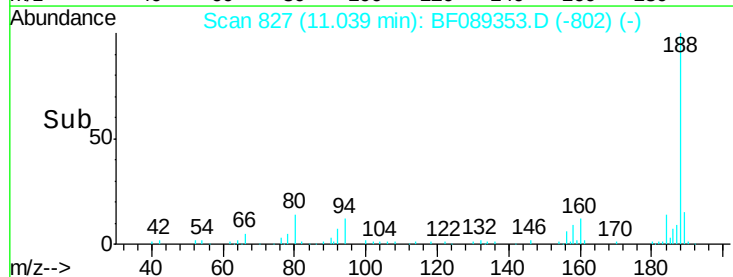
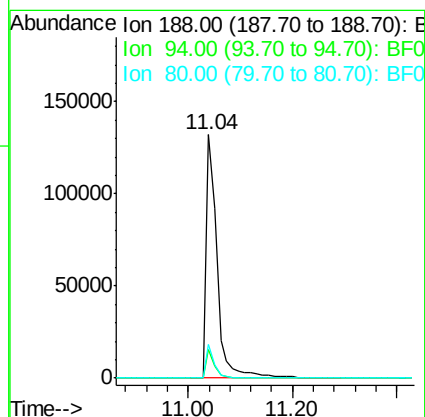
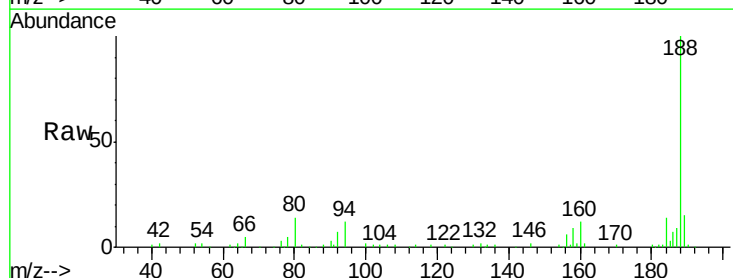
Instrument :  
 BNA\_F  
 ClientSampled :  
 I-23

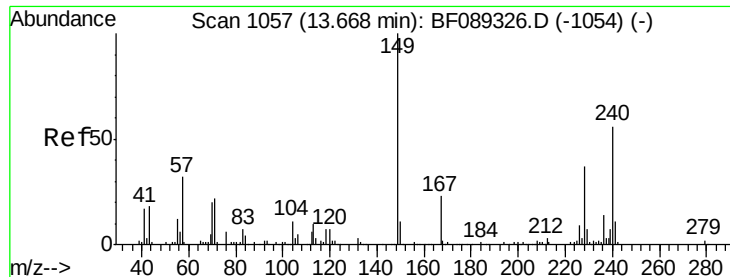
Tgt Ion:172 Resp: 619438  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 29.2 43.8  
 170 23.0 19.2 28.8



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.04 min Scan# 827  
 Delta R.T. -0.01 min  
 Lab File: BF089353.D  
 Acq: 28 Jul 2016 8:24

Tgt Ion:188 Resp: 192243  
 Ion Ratio Lower Upper  
 188 100  
 94 11.8 6.5 9.7#  
 80 13.9 7.2 10.8#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.67 min Scan# 1057

Delta R.T. 0.00 min

Lab File: BF089353.D

Acq: 28 Jul 2016 8:24

Instrument :

BNA\_F

ClientSampleId :

I-23

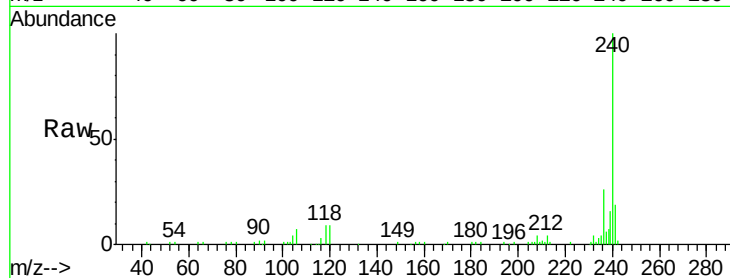
Tgt Ion:240 Resp: 139431

Ion Ratio Lower Upper

240 100

120 8.9 9.1 13.7#

236 25.5 20.6 30.8



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

120000

100000

80000

60000

40000

20000

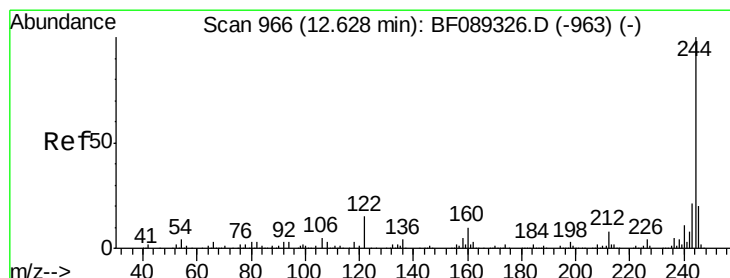
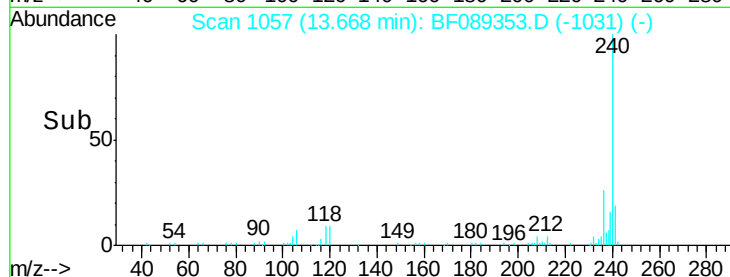
0

13.67

13.60

13.80

Time-->



#78

Terphenyl-d14

Concen: 93.80 ng

RT: 12.63 min Scan# 966

Delta R.T. 0.00 min

Lab File: BF089353.D

Acq: 28 Jul 2016 8:24

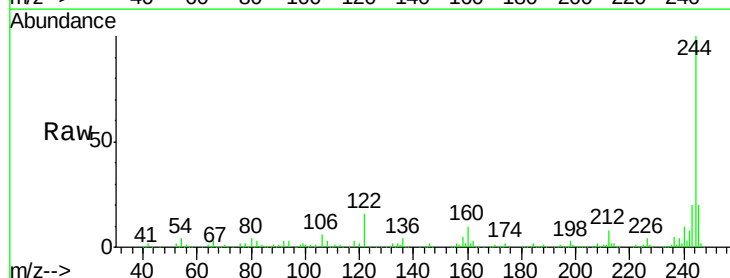
Tgt Ion:244 Resp: 558787

Ion Ratio Lower Upper

244 100

212 8.3 6.5 9.7

122 16.3 11.4 17.0



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

600000

500000

400000

300000

200000

100000

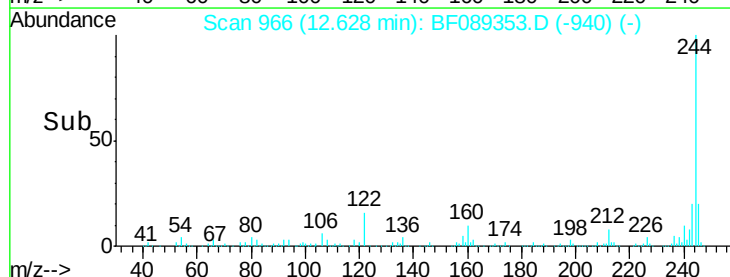
0

12.63

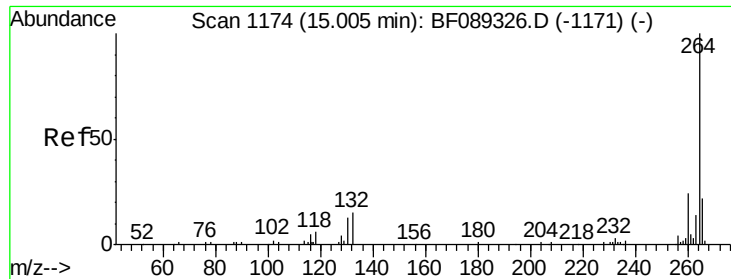
12.60

12.80

Time-->



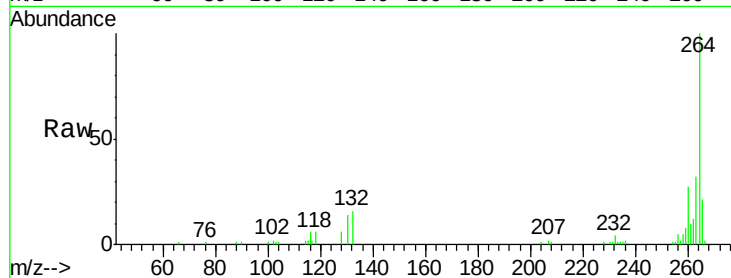




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.01 min Scan# 1174  
Delta R.T. 0.00 min  
Lab File: BF089353.D  
Acq: 28 Jul 2016 8:24

Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion: 264 Resp: 76534  
Ion Ratio Lower Upper  
264 100  
260 26.6 19.0 28.4  
265 20.6 17.5 26.3



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

