

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF072816\  
 Data File : BF089354.D  
 Acq On : 28 Jul 2016 8:53  
 Operator : UM/SJ  
 Sample : H4157-27  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 I-24

Quant Time: Jul 28 12:21:56 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

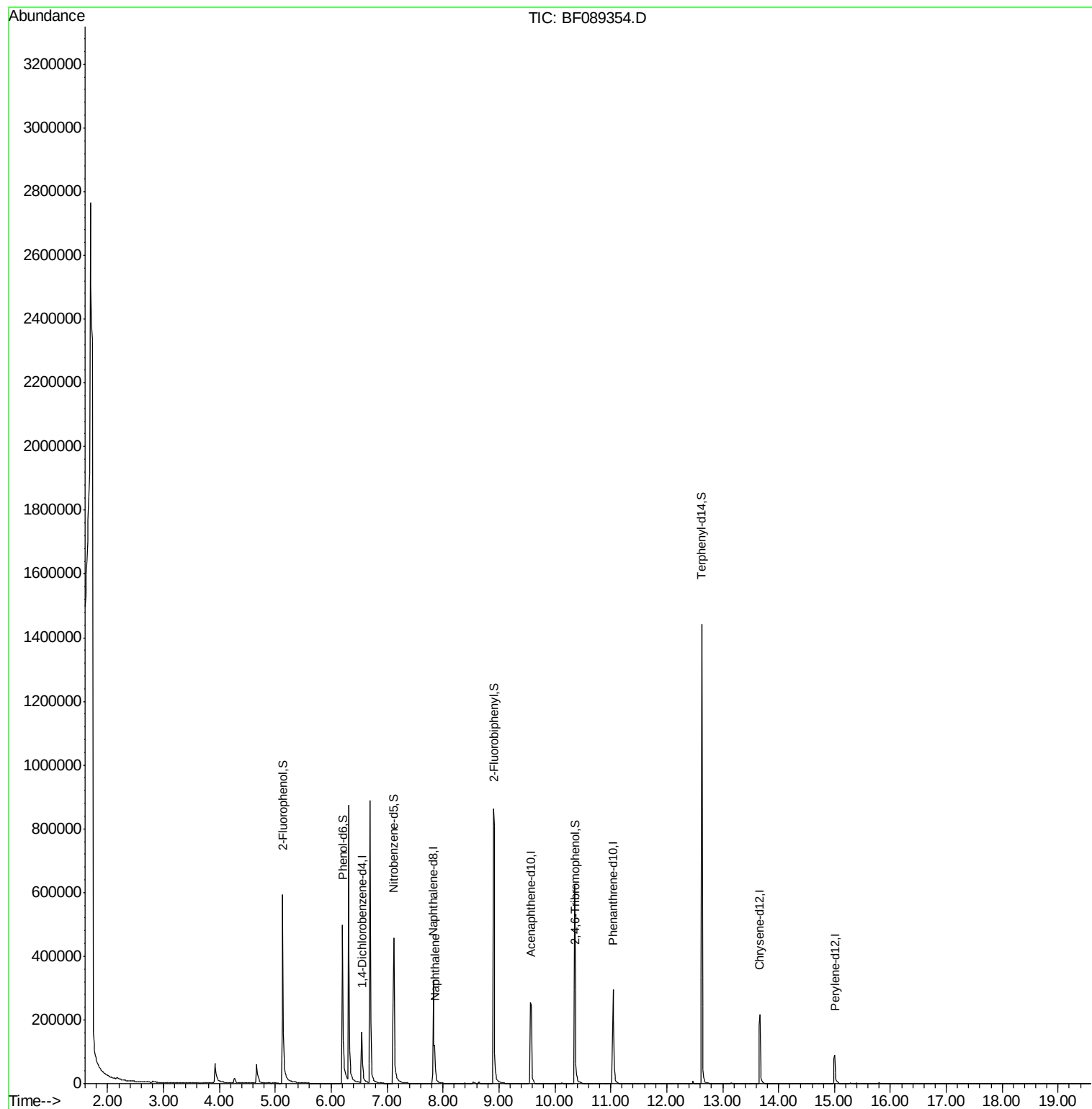
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.55  | 152  | 41542    | 20.00  | ng    | 0.00         |
| 21) Naphthalene-d8          | 7.83  | 136  | 190648   | 20.00  | ng    | 0.00         |
| 38) Acenaphthene-d10        | 9.56  | 164  | 82450    | 20.00  | ng    | -0.01        |
| 63) Phenanthrene-d10        | 11.04 | 188  | 170756   | 20.00  | ng    | -0.01        |
| 75) Chrysene-d12            | 13.67 | 240  | 124825   | 20.00  | ng    | 0.00         |
| 86) Perylene-d12            | 15.01 | 264  | 46157    | 20.00  | ng    | 0.00         |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.13  | 112  | 255977   | 98.39  | ng    | 0.02         |
| 7) Phenol-d6                | 6.20  | 99   | 324960   | 94.51  | ng    | 0.00         |
| 23) Nitrobenzene-d5         | 7.12  | 82   | 261651   | 81.01  | ng    | 0.00         |
| 41) 2,4,6-Tribromophenol    | 10.36 | 330  | 83493    | 122.27 | ng    | 0.00         |
| 44) 2-Fluorobiphenyl        | 8.91  | 172  | 474532   | 84.46  | ng    | 0.00         |
| 78) Terphenyl-d14           | 12.63 | 244  | 465150   | 87.22  | ng    | 0.00         |
| Target Compounds            |       |      |          |        |       |              |
| 31) Naphthalene             | 7.85  | 128  | 68714    | 7.28   | ng    | Qvalue<br>98 |

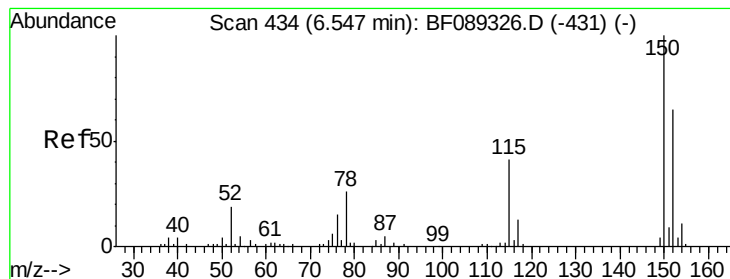
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF072816\  
Data File : BF089354.D  
Acq On : 28 Jul 2016 8:53  
Operator : UM/SJ  
Sample : H4157-27  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
I-24

Quant Time: Jul 28 12:21:56 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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.55 min Scan# 434

Delta R.T. -0.00 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

Instrument :

BNA\_F

ClientSampleId :

I-24

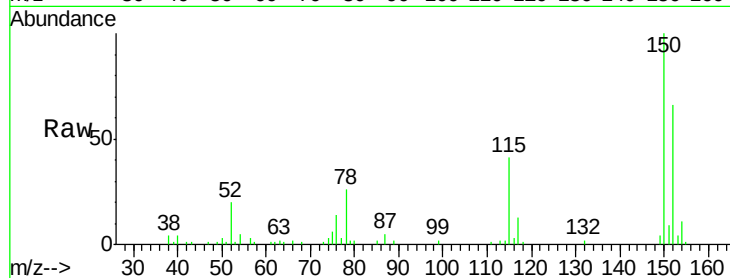
Tgt Ion:152 Resp: 41542

Ion Ratio Lower Upper

152 100

150 152.2 129.5 194.3

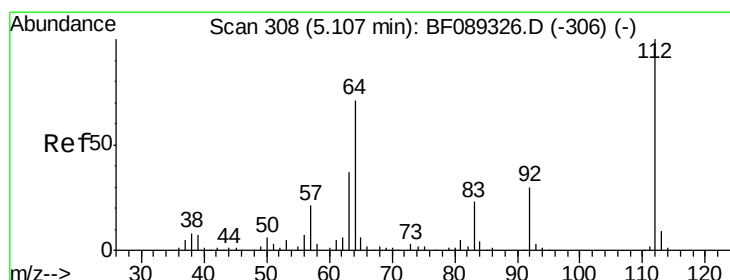
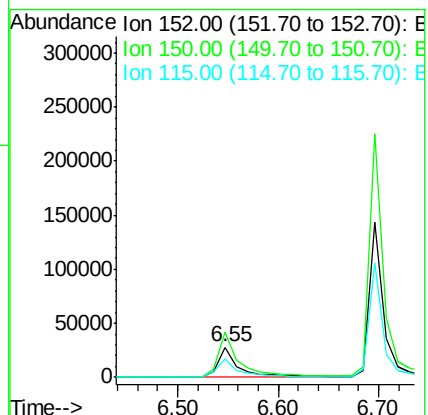
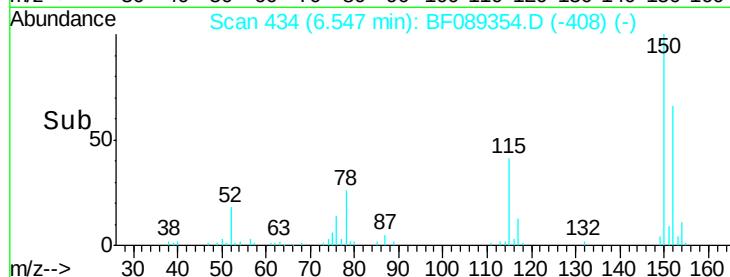
115 62.4 51.4 77.2



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: 98.39 ng

RT: 5.13 min Scan# 310

Delta R.T. 0.02 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

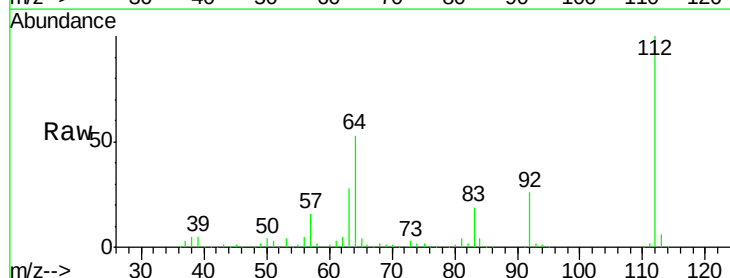
Tgt Ion:112 Resp: 255977

Ion Ratio Lower Upper

112 100

64 52.8 55.0 82.6#

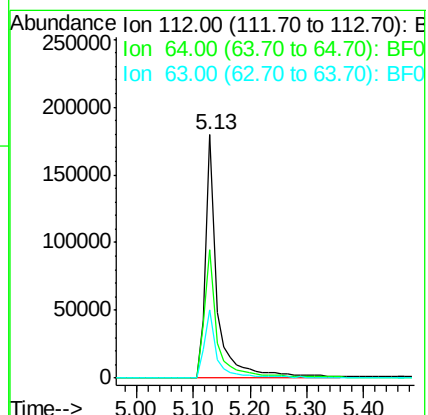
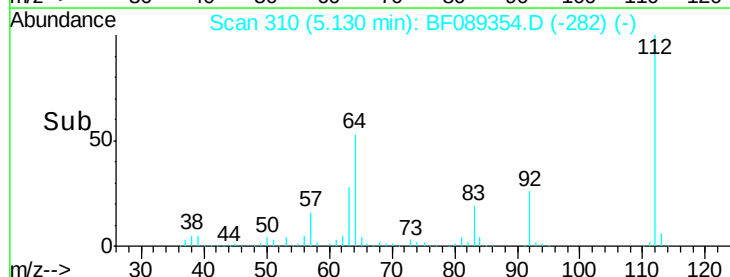
63 27.9 29.4 44.2#

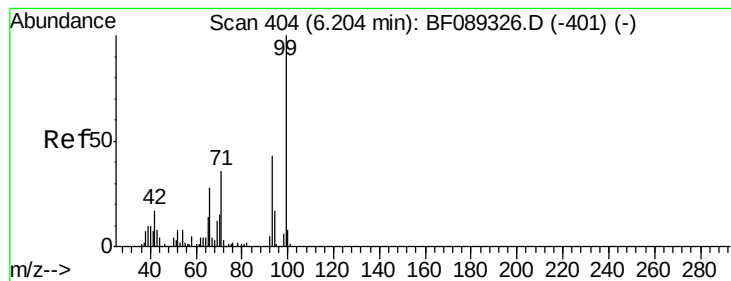


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 94.51 ng

RT: 6.20 min Scan# 404

Delta R.T. -0.00 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

Instrument :

BNA\_F

ClientSampleId :

I-24

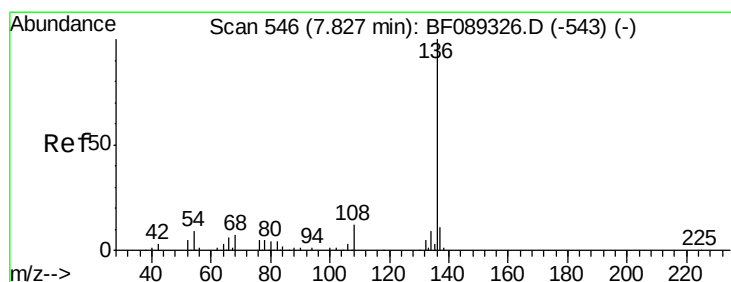
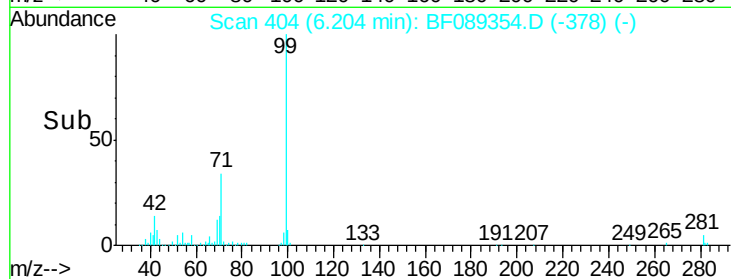
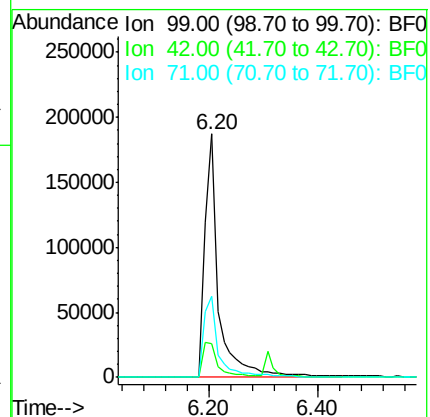
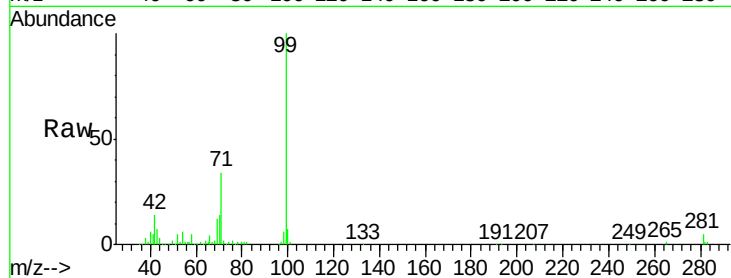
Tgt Ion: 99 Resp: 324960

Ion Ratio Lower Upper

99 100

42 14.0 13.6 20.4

71 33.5 29.4 44.2



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.83 min Scan# 546

Delta R.T. -0.00 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

Tgt Ion: 136 Resp: 190648

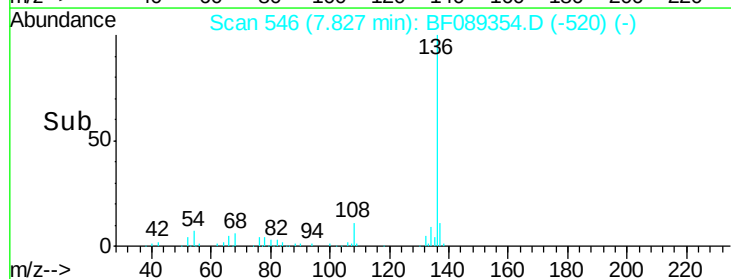
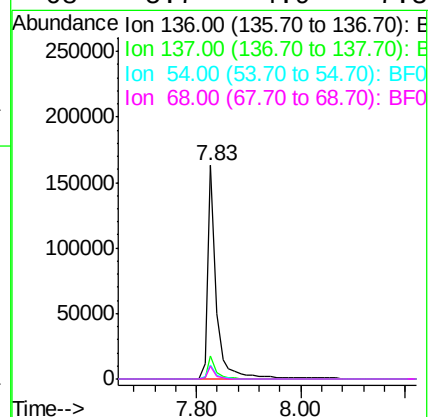
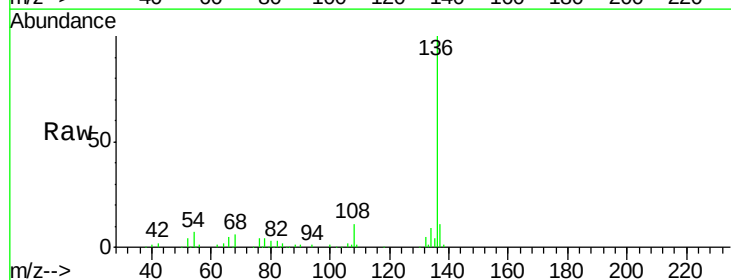
Ion Ratio Lower Upper

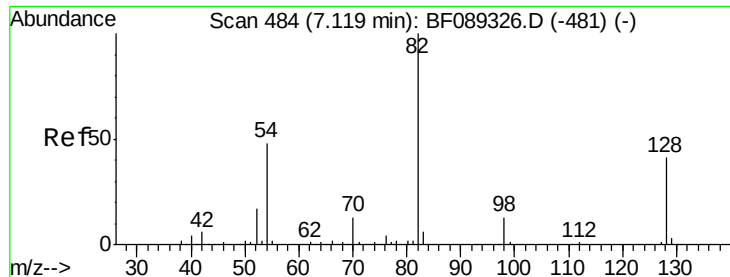
136 100

137 10.8 8.6 13.0

54 6.8 7.0 10.4#

68 5.7 4.9 7.3

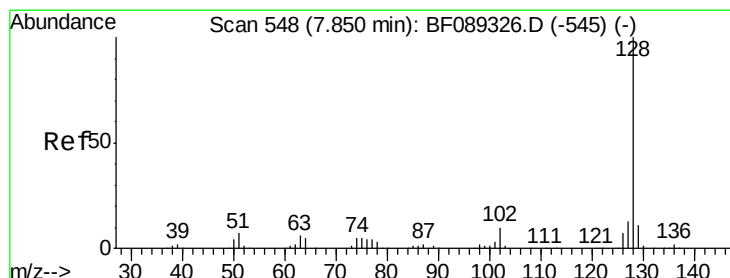
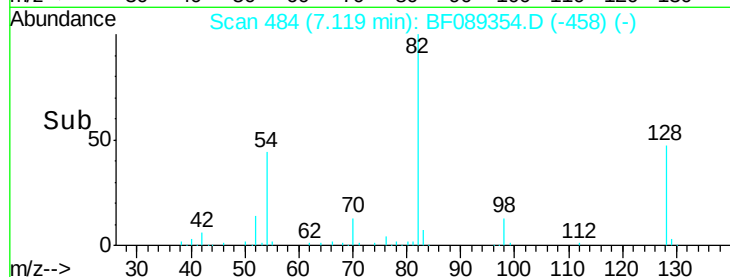
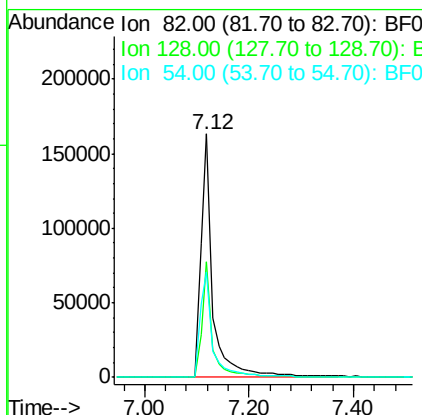
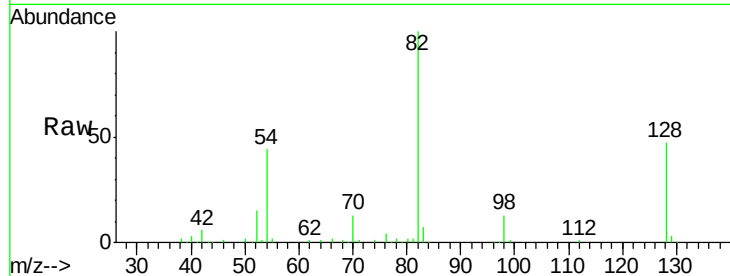




#23  
 Nitrobenzene-d5  
 Concen: 81.01 ng  
 RT: 7.12 min Scan# 484  
 Delta R.T. -0.00 min  
 Lab File: BF089354.D  
 Acq: 28 Jul 2016 8:53

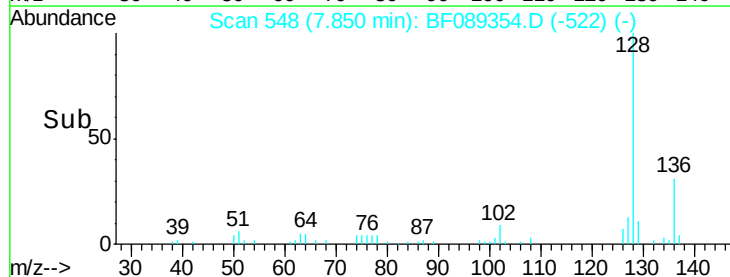
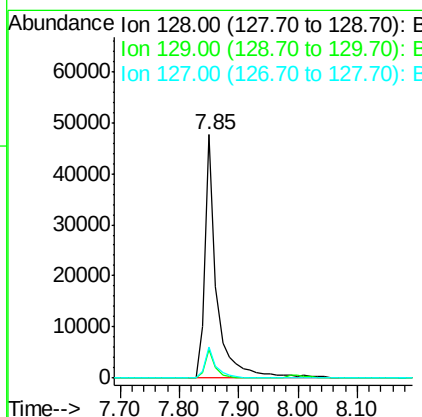
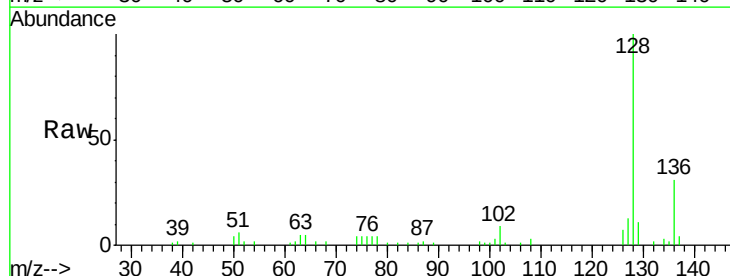
Instrument :  
 BNA\_F  
 ClientSampled :  
 I-24

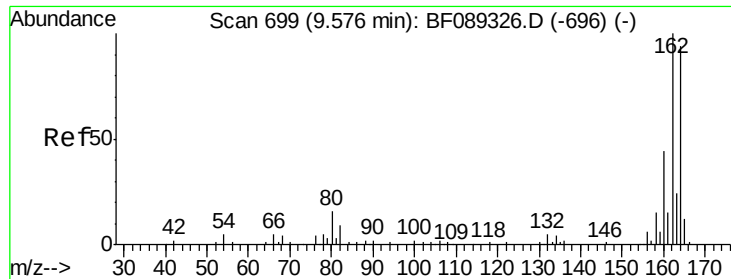
Tgt Ion: 82 Resp: 261651  
 Ion Ratio Lower Upper  
 82 100  
 128 47.4 32.5 48.7  
 54 43.5 38.8 58.2



#31  
 Naphthalene  
 Concen: 7.28 ng  
 RT: 7.85 min Scan# 548  
 Delta R.T. -0.00 min  
 Lab File: BF089354.D  
 Acq: 28 Jul 2016 8:53

Tgt Ion: 128 Resp: 68714  
 Ion Ratio Lower Upper  
 128 100  
 129 11.5 8.8 13.2  
 127 12.8 10.8 16.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.56 min Scan# 698

Delta R.T. -0.01 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

Instrument :

BNA\_F

ClientSampleId :

I-24

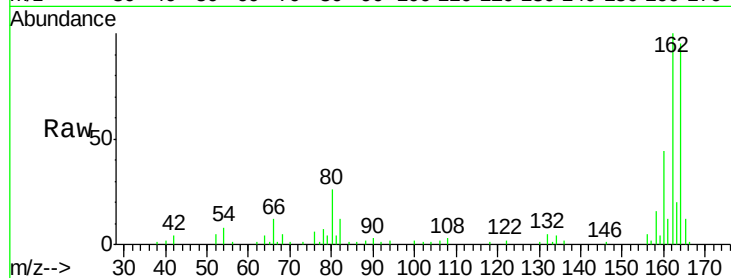
Tgt Ion:164 Resp: 82450

Ion Ratio Lower Upper

164 100

162 105.8 83.7 125.5

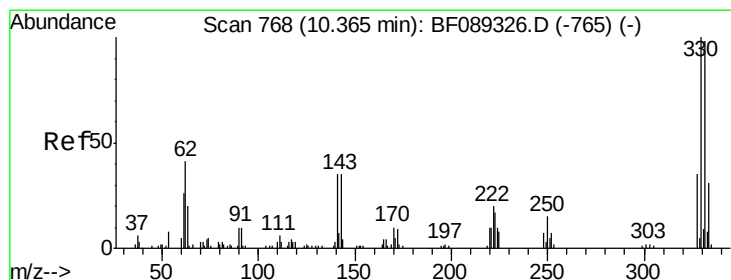
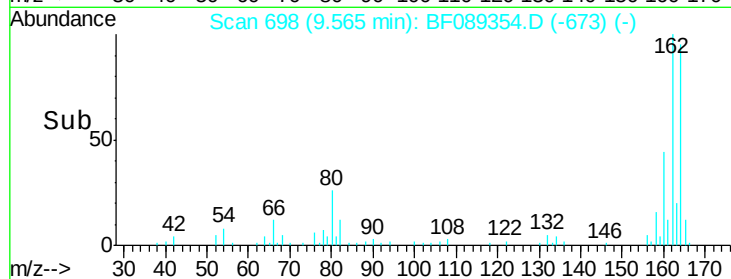
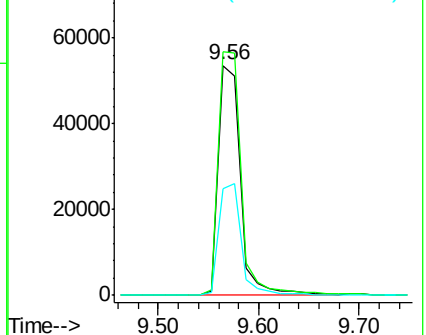
160 46.3 37.8 56.6



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: 122.27 ng

RT: 10.36 min Scan# 768

Delta R.T. -0.00 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

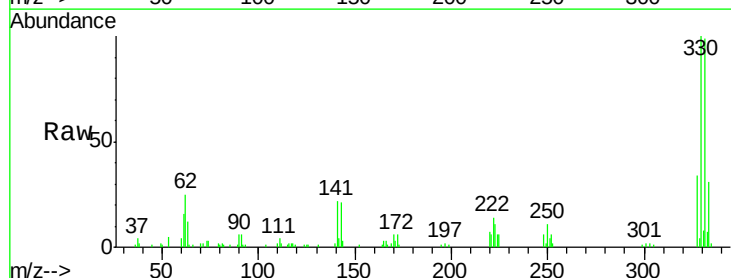
Tgt Ion:330 Resp: 83493

Ion Ratio Lower Upper

330 100

332 97.8 76.8 115.2

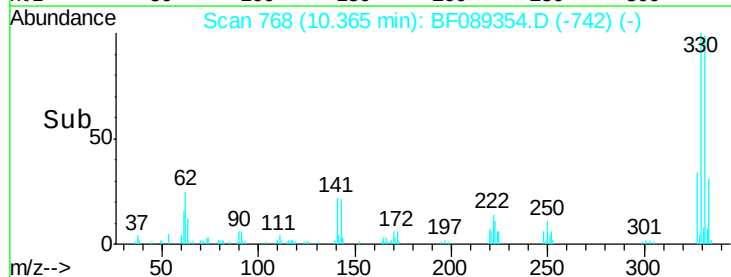
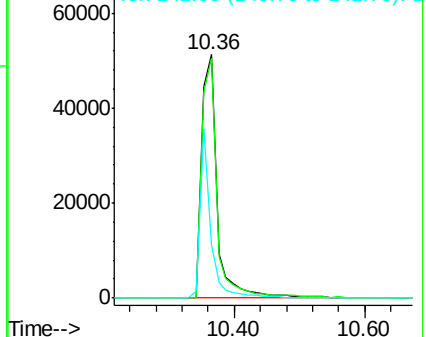
141 47.5 37.3 55.9

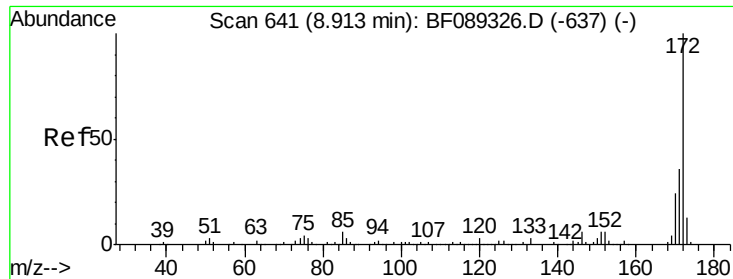


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

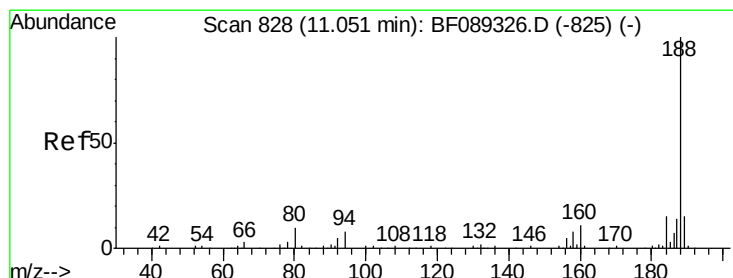
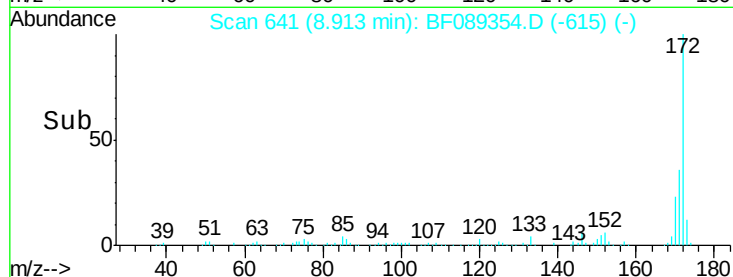
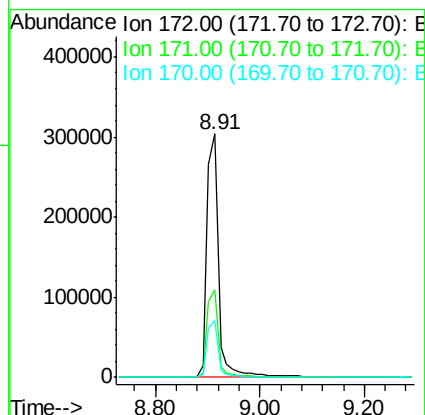
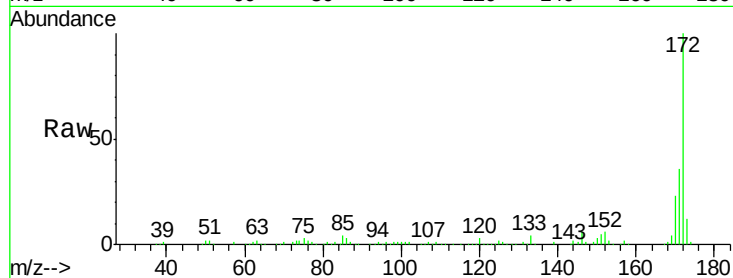




#44  
 2-Fluorobiphenyl  
 Concen: 84.46 ng  
 RT: 8.91 min Scan# 641  
 Delta R.T. -0.00 min  
 Lab File: BF089354.D  
 Acq: 28 Jul 2016 8:53

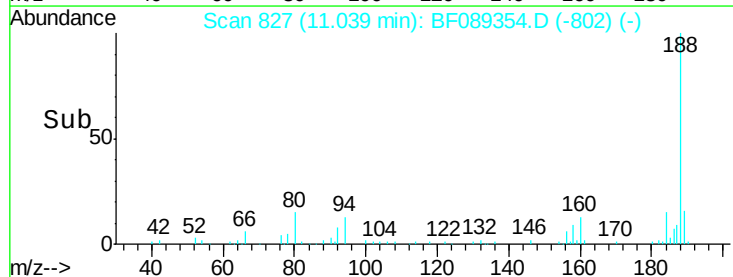
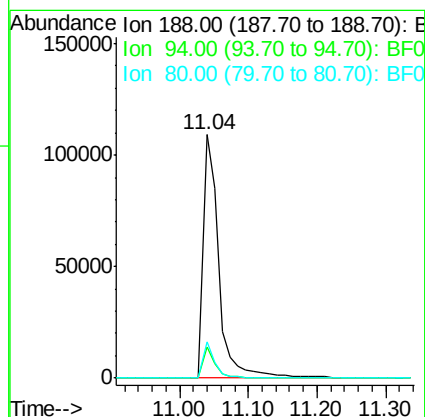
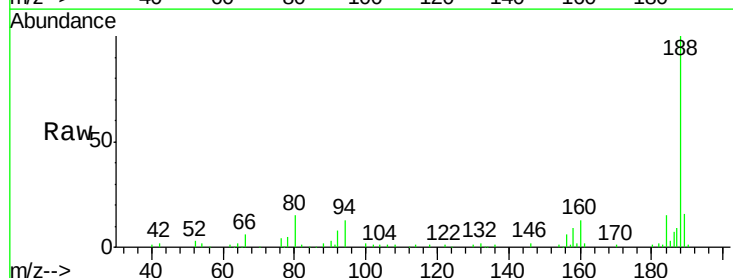
Instrument :  
 BNA\_F  
 ClientSampleId :  
 I-24

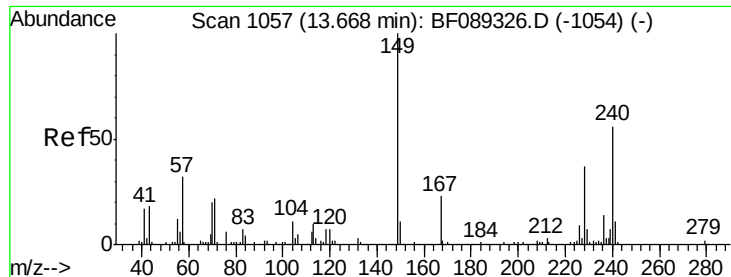
Tgt Ion:172 Resp: 474532  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 29.2 43.8  
 170 23.4 19.2 28.8



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.04 min Scan# 827  
 Delta R.T. -0.01 min  
 Lab File: BF089354.D  
 Acq: 28 Jul 2016 8:53

Tgt Ion:188 Resp: 170756  
 Ion Ratio Lower Upper  
 188 100  
 94 12.5 6.5 9.7#  
 80 15.0 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: BF089354.D

Acq: 28 Jul 2016 8:53

Instrument :

BNA\_F

ClientSampleId :

I-24

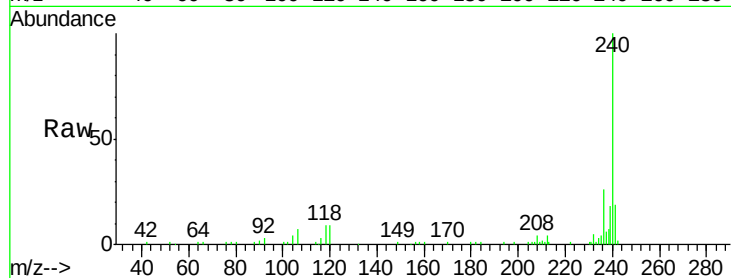
Tgt Ion:240 Resp: 124825

Ion Ratio Lower Upper

240 100

120 9.4 9.1 13.7

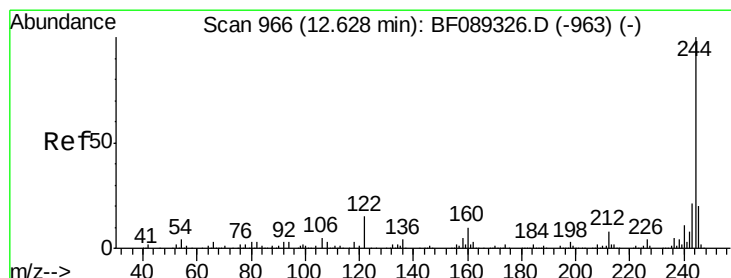
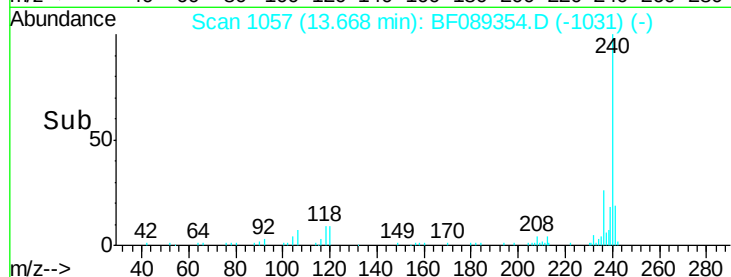
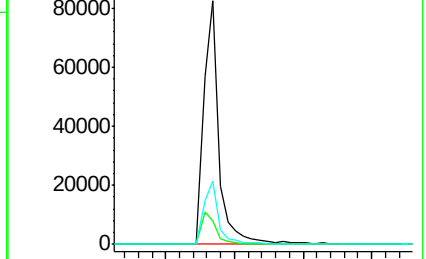
236 26.0 20.6 30.8



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



#78

Terphenyl-d14

Concen: 87.22 ng

RT: 12.63 min Scan# 966

Delta R.T. -0.00 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

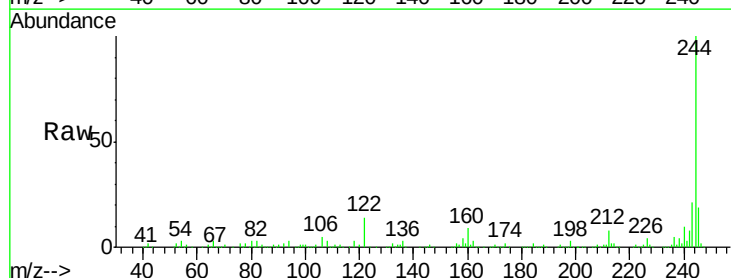
Tgt Ion:244 Resp: 465150

Ion Ratio Lower Upper

244 100

212 8.1 6.5 9.7

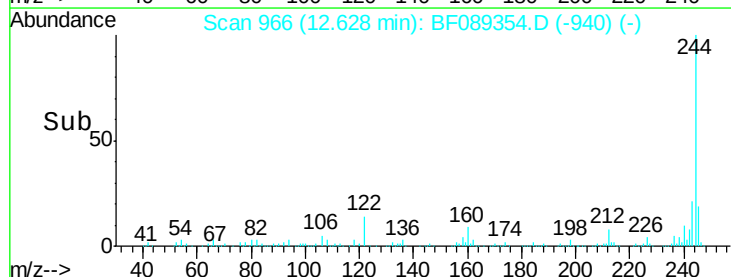
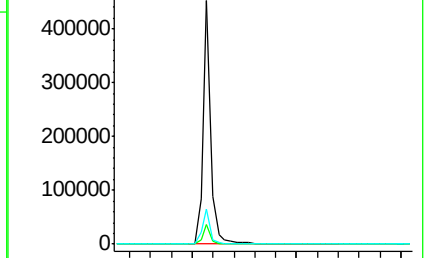
122 14.2 11.4 17.0



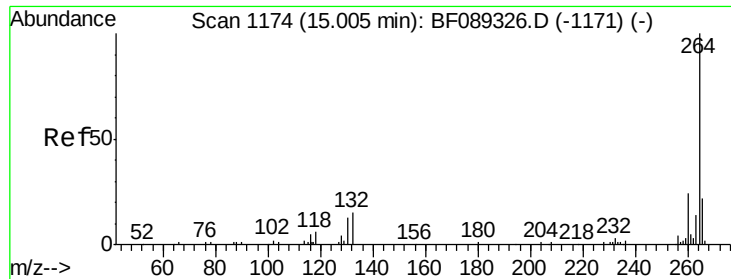
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



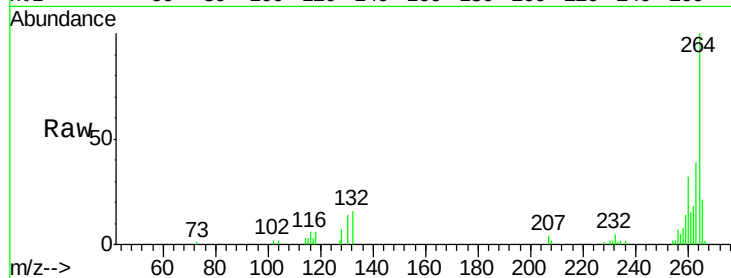




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.01 min Scan# 1174  
Delta R.T. -0.00 min  
Lab File: BF089354.D  
Acq: 28 Jul 2016 8:53

Instrument :  
BNA\_F  
ClientSampleId :  
I-24

Tgt Ion: 264 Resp: 46157  
Ion Ratio Lower Upper  
264 100  
260 31.8 19.0 28.4#  
265 20.9 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

