

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031117\  
 Data File : BF093592.D  
 Acq On : 12 Mar 2017 5:48  
 Operator : SJ/MA  
 Sample : I2132-01RE  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-21RE

Quant Time: Mar 13 18:09:43 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 13 15:05:08 2017  
 Response via : Initial Calibration

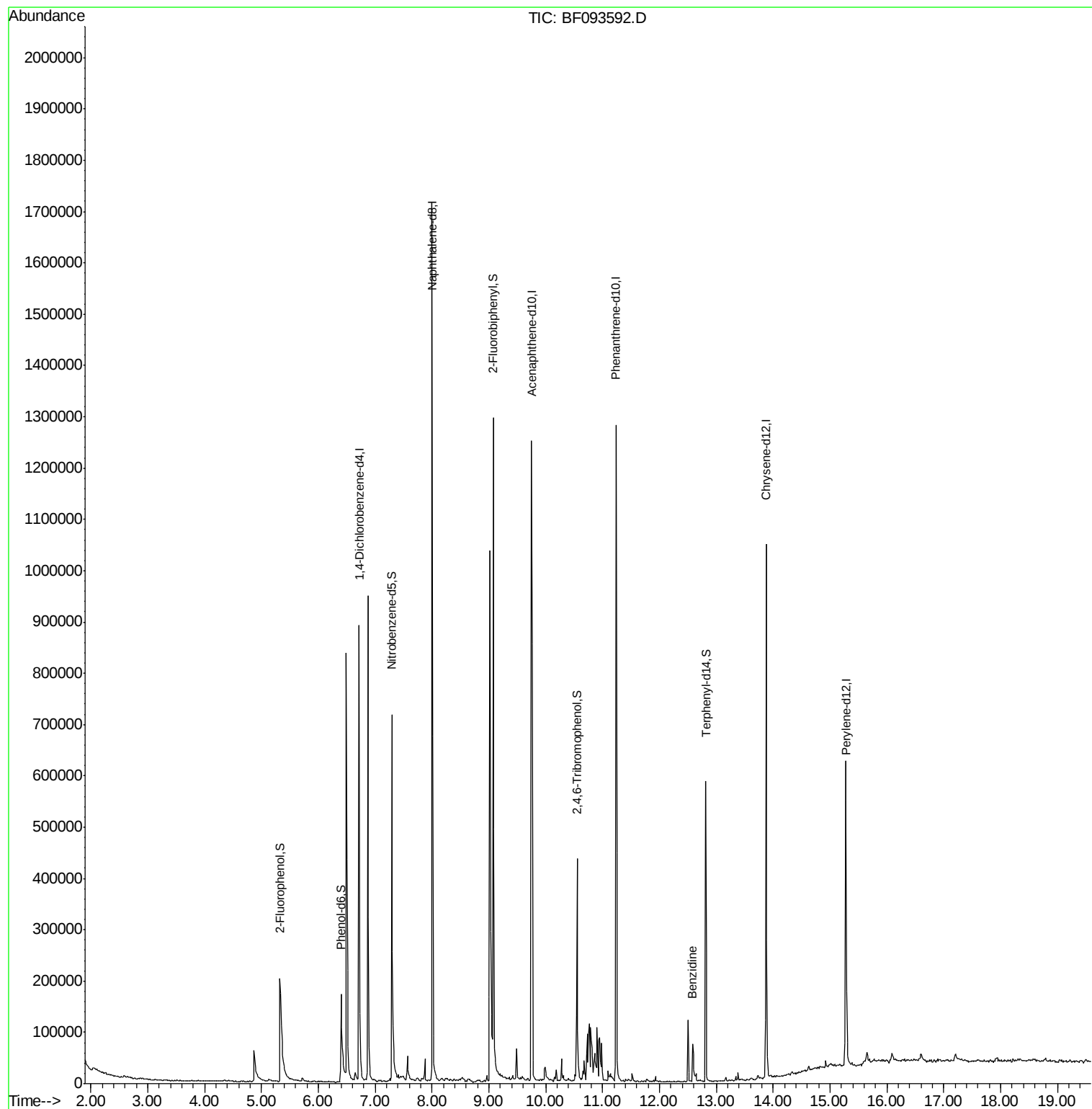
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|-------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.72  | 152  | 208674   | 20.00 | ng    | 0.00         |
| 21) Naphthalene-d8          | 8.00  | 136  | 824050   | 20.00 | ng    | -0.01        |
| 38) Acenaphthene-d10        | 9.75  | 164  | 314635   | 20.00 | ng    | -0.01        |
| 63) Phenanthrene-d10        | 11.24 | 188  | 500943   | 20.00 | ng    | -0.01        |
| 75) Chrysene-d12            | 13.88 | 240  | 381448   | 20.00 | ng    | -0.01        |
| 86) Perylene-d12            | 15.28 | 264  | 332709   | 20.00 | ng    | 0.00         |
| System Monitoring Compounds |       |      |          |       |       |              |
| 5) 2-Fluorophenol           | 5.33  | 112  | 151965   | 12.12 | ng    | 0.01         |
| 7) Phenol-d6                | 6.40  | 99   | 125269   | 7.92  | ng    | 0.02         |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 296337   | 19.95 | ng    | -0.01        |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 58762    | 28.67 | ng    | 0.00         |
| 44) 2-Fluorobiphenyl        | 9.08  | 172  | 418622   | 24.75 | ng    | -0.01        |
| 78) Terphenyl-d14           | 12.81 | 244  | 197946   | 13.49 | ng    | -0.01        |
| Target Compounds            |       |      |          |       |       |              |
| 76) Benzidine               | 12.59 | 184  | 53168    | 4.24  | ng    | Qvalue<br>97 |

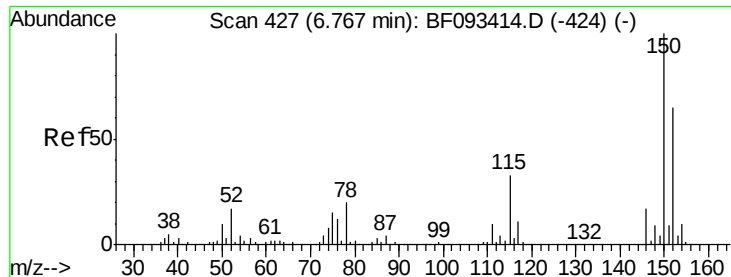
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 13 15:05:08 2017  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.72 min Scan# 423

Delta R.T. -0.00 min

Lab File: BF093592.D

Acq: 12 Mar 2017 5:48

Instrument :

BNA\_F

ClientSampleId :

W-21RE

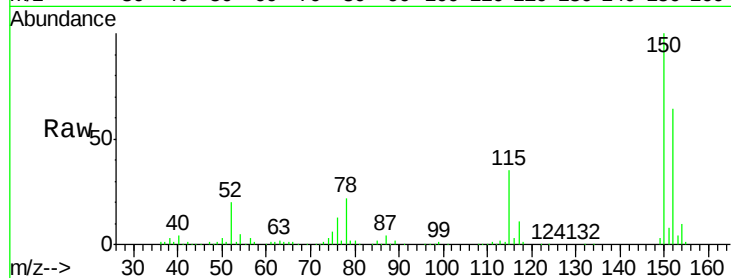
Tgt Ion:152 Resp: 208674

Ion Ratio Lower Upper

152 100

150 155.3 124.9 187.3

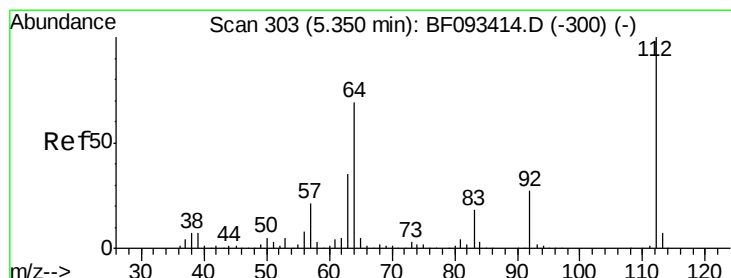
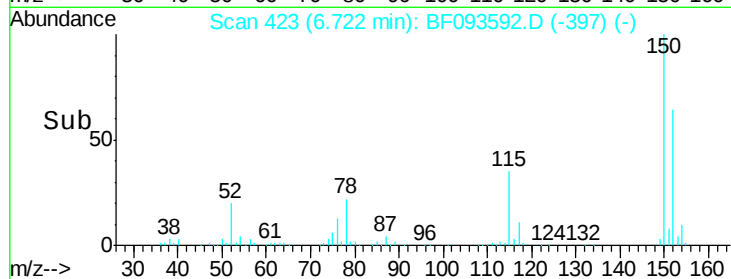
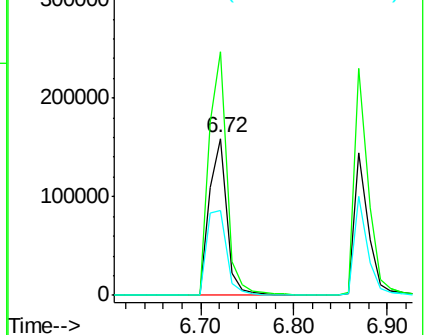
115 53.8 46.0 69.0



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: 12.12 ng

RT: 5.33 min Scan# 301

Delta R.T. 0.01 min

Lab File: BF093592.D

Acq: 12 Mar 2017 5:48

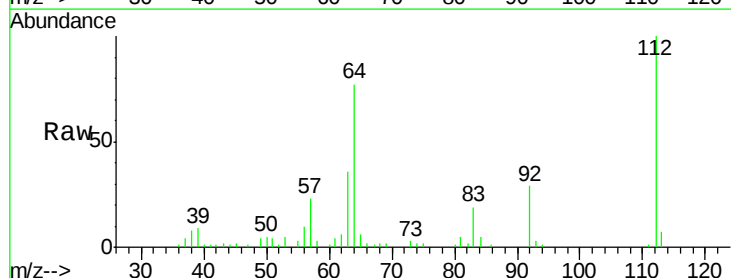
Tgt Ion:112 Resp: 151965

Ion Ratio Lower Upper

112 100

64 77.1 46.1 69.1#

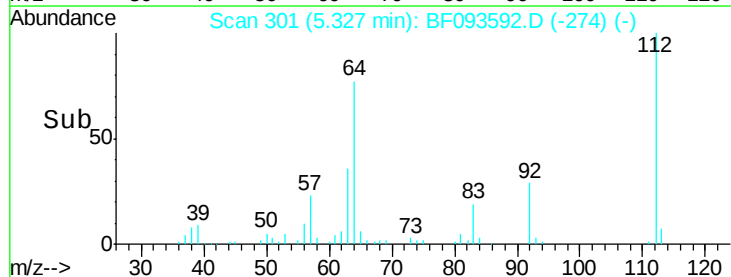
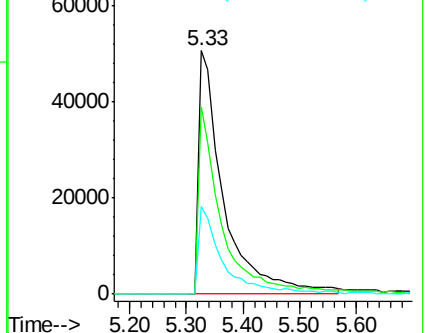
63 36.2 23.8 35.6#

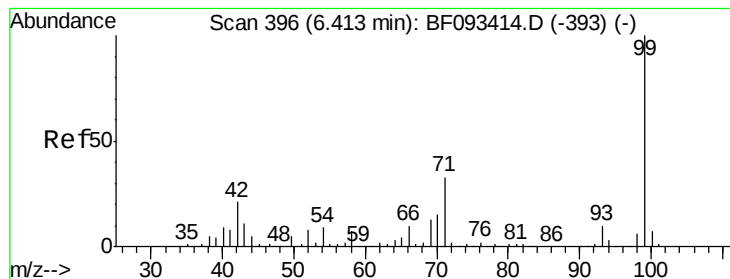


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 7.92 ng

RT: 6.40 min Scan# 395

Delta R.T. 0.02 min

Lab File: BF093592.D

Acq: 12 Mar 2017 5:48

Instrument :

BNA\_F

ClientSampleId :

W-21RE

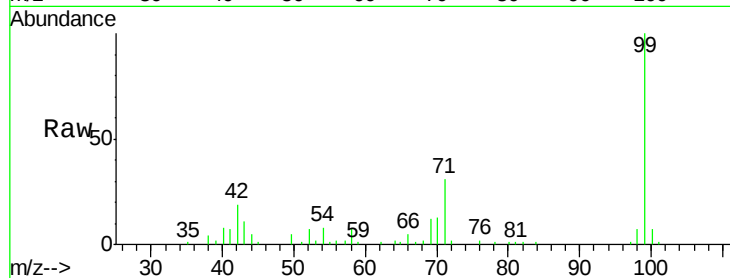
Tgt Ion: 99 Resp: 125269

Ion Ratio Lower Upper

99 100

42 19.3 15.6 23.4

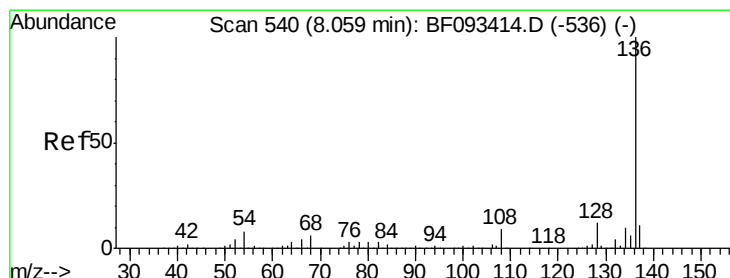
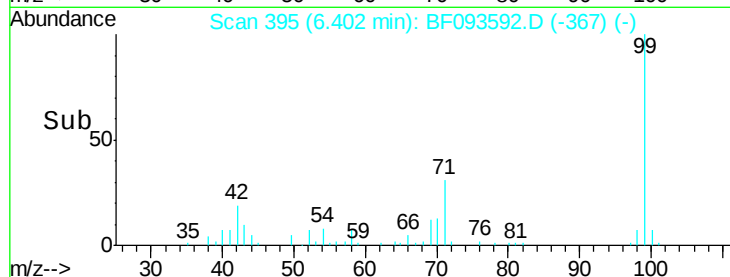
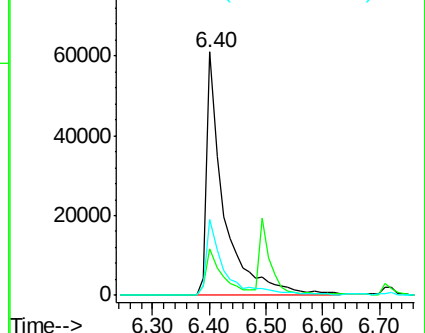
71 31.4 27.5 41.3



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: 8.00 min Scan# 535

Delta R.T. -0.01 min

Lab File: BF093592.D

Acq: 12 Mar 2017 5:48

Tgt Ion: 136 Resp: 824050

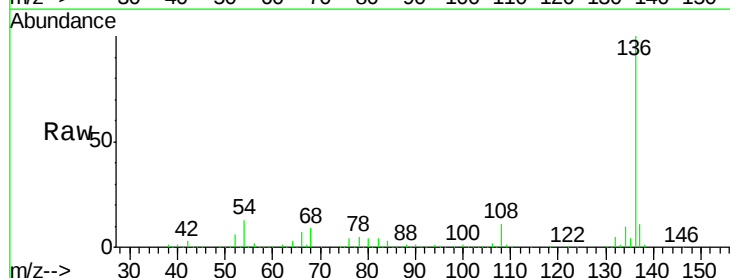
Ion Ratio Lower Upper

136 100

137 11.5 8.4 12.6

54 12.6 4.5 6.7#

68 8.8 3.6 5.4#

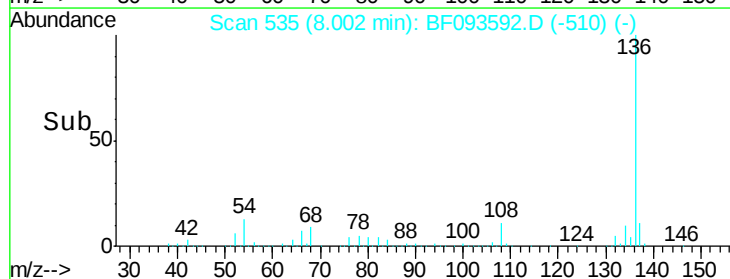
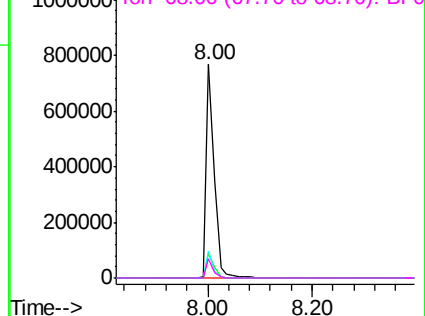


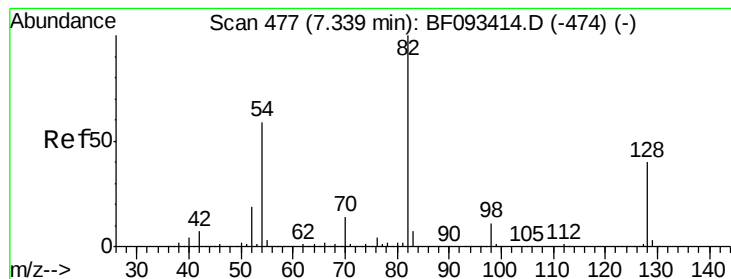
Abundance Ion 136.00 (135.70 to 136.70): E

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: 19.95 ng

RT: 7.29 min Scan# 473

Delta R.T. -0.01 min

Lab File: BF093592.D

Acq: 12 Mar 2017 5:48

Instrument :

BNA\_F

ClientSampleId :

W-21RE

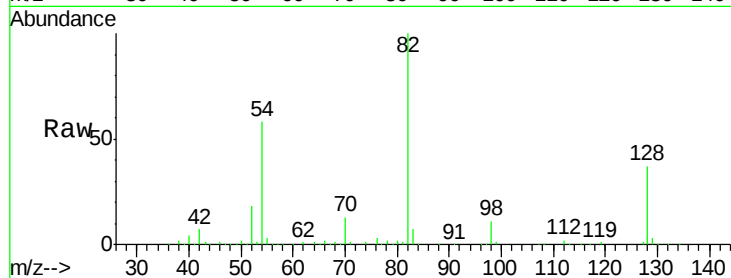
Tgt Ion: 82 Resp: 296337

Ion Ratio Lower Upper

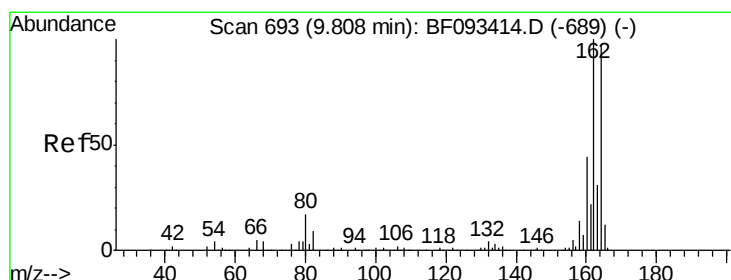
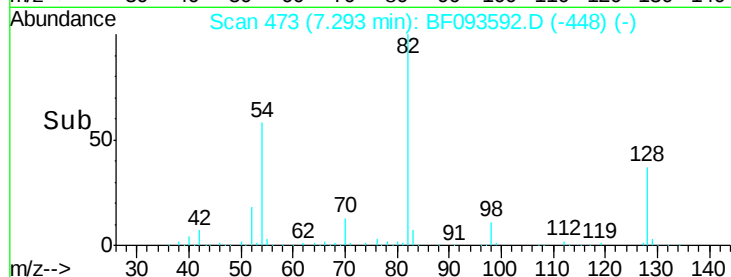
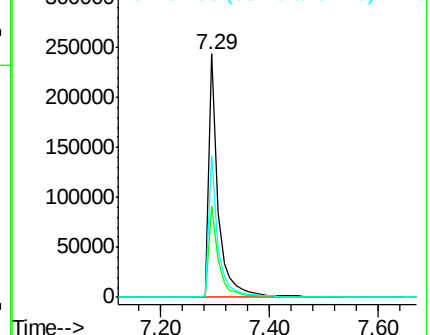
82 100

128 37.5 34.6 52.0

54 57.8 39.5 59.3



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: 9.75 min Scan# 688

Delta R.T. -0.01 min

Lab File: BF093592.D

Acq: 12 Mar 2017 5:48

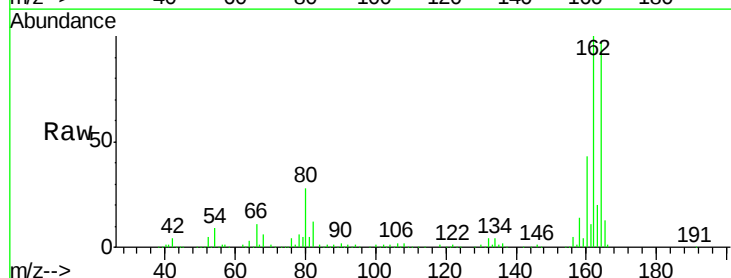
Tgt Ion: 164 Resp: 314635

Ion Ratio Lower Upper

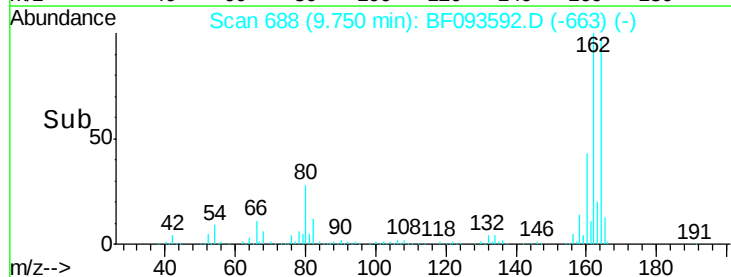
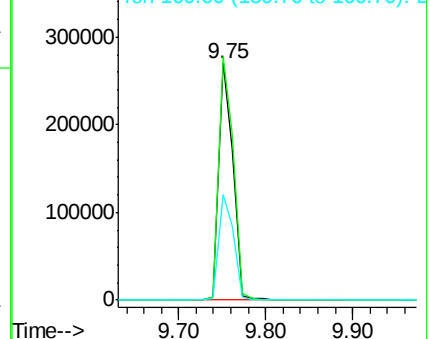
164 100

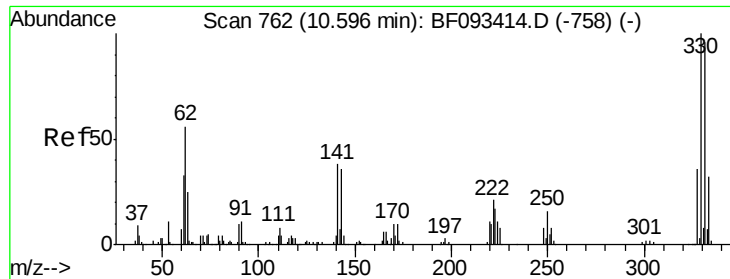
162 102.9 80.2 120.2

160 44.3 36.9 55.3



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

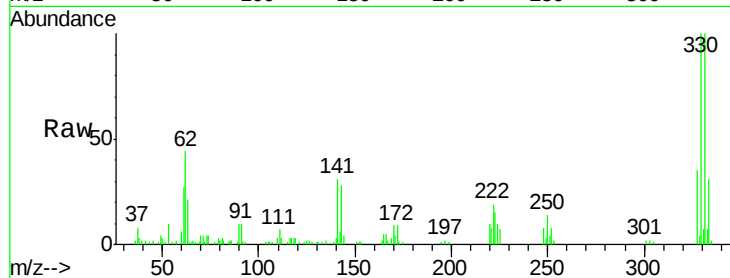




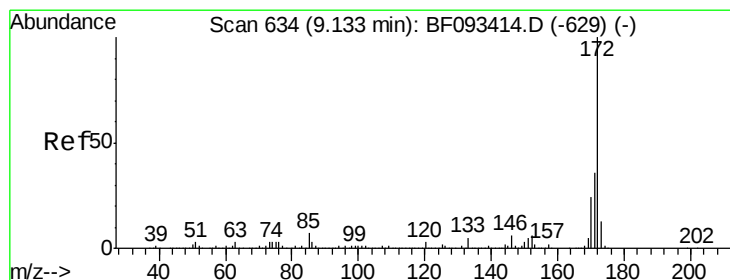
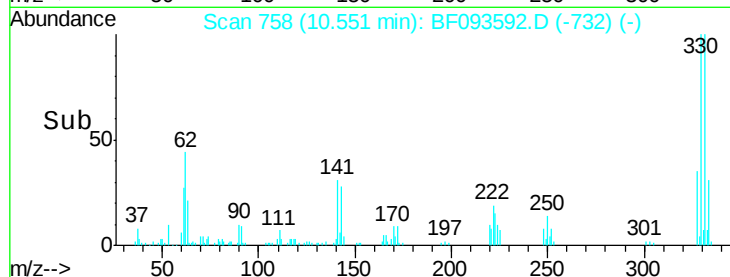
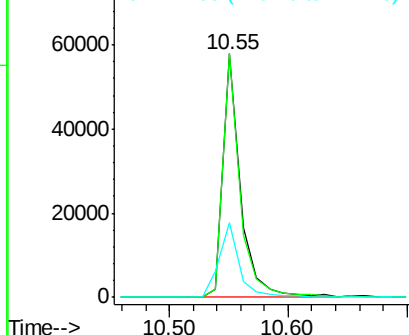
#41  
 2,4,6-Tribromophenol  
 Concen: 28.67 ng  
 RT: 10.55 min Scan# 758  
 Delta R.T. -0.00 min  
 Lab File: BF093592.D  
 Acq: 12 Mar 2017 5:48

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-21RE

Tgt Ion:330 Resp: 58762  
 Ion Ratio Lower Upper  
 330 100  
 332 97.6 77.4 116.2  
 141 35.9 34.1 51.1

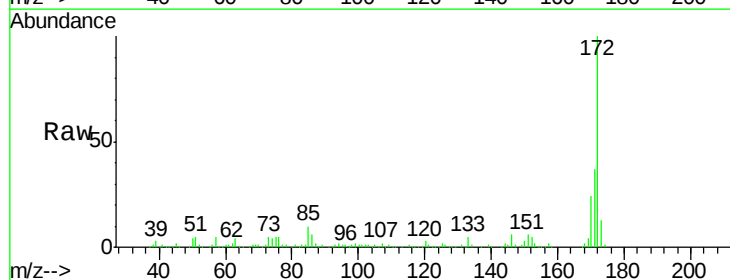


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

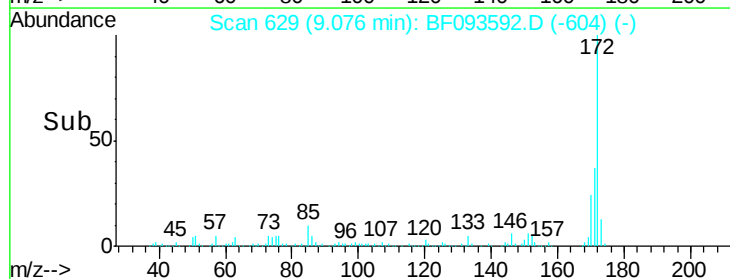
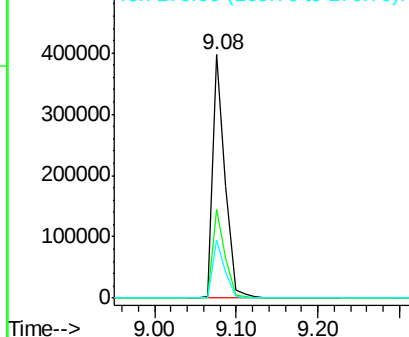


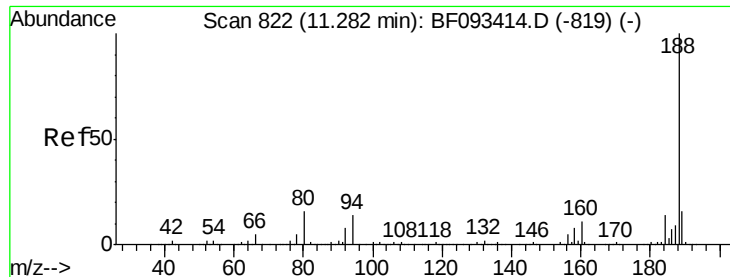
#44  
 2-Fluorobiphenyl  
 Concen: 24.75 ng  
 RT: 9.08 min Scan# 629  
 Delta R.T. -0.01 min  
 Lab File: BF093592.D  
 Acq: 12 Mar 2017 5:48

Tgt Ion:172 Resp: 418622  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.4 44.0  
 170 23.9 20.2 30.4



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

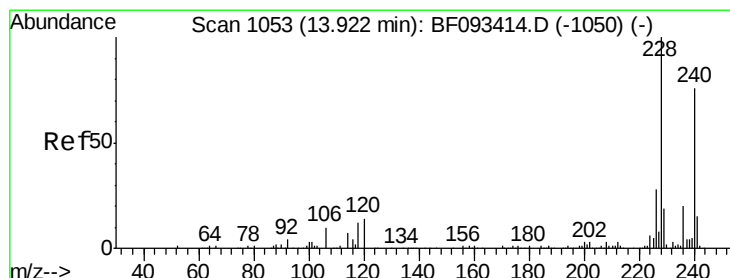
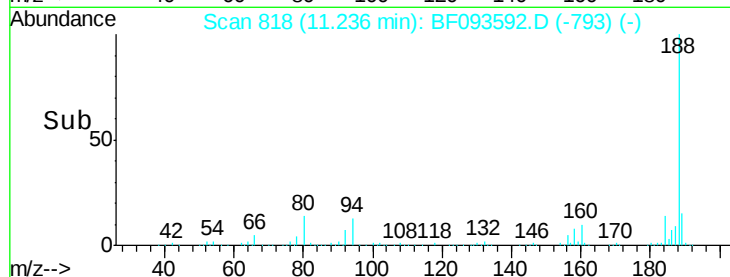
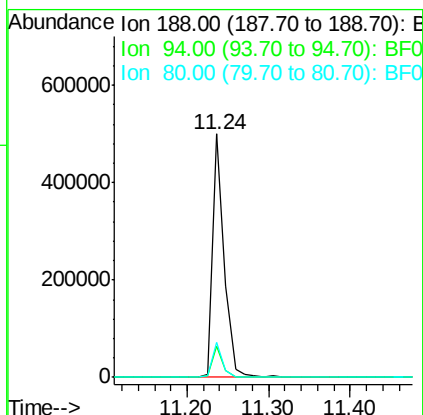
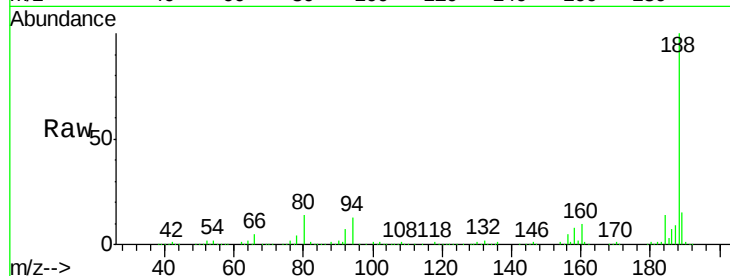




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.24 min Scan# 818  
Delta R.T. -0.01 min  
Lab File: BF093592.D  
Acq: 12 Mar 2017 5:48

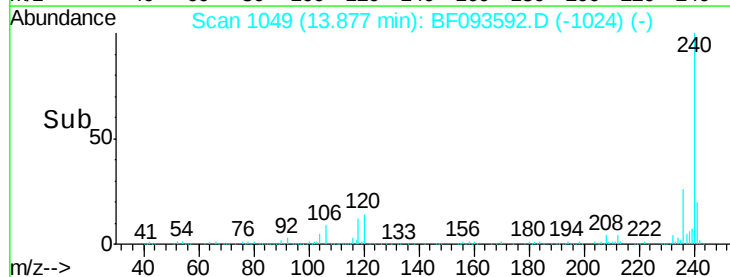
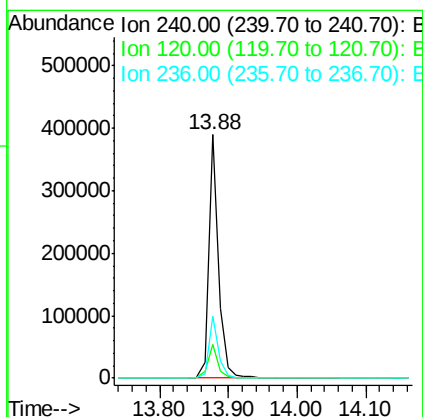
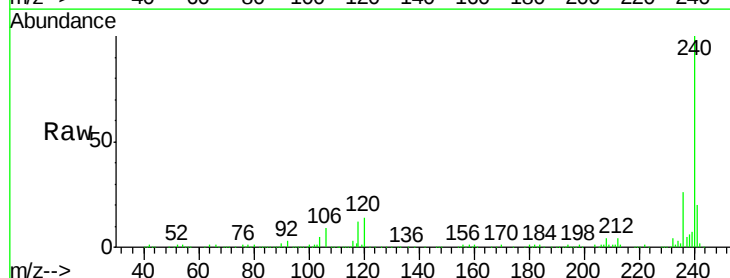
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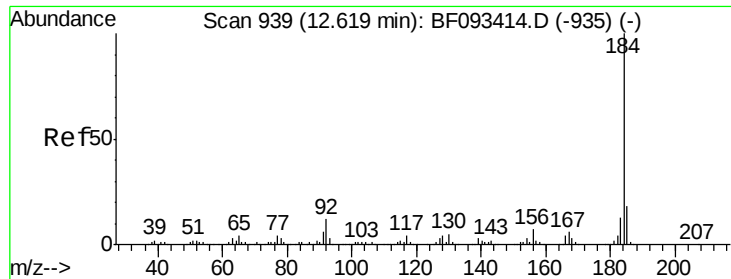
Tgt Ion:188 Resp: 500943  
Ion Ratio Lower Upper  
188 100  
94 13.0 10.0 15.0  
80 14.4 11.2 16.8



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.88 min Scan# 1049  
Delta R.T. -0.01 min  
Lab File: BF093592.D  
Acq: 12 Mar 2017 5:48

Tgt Ion:240 Resp: 381448  
Ion Ratio Lower Upper  
240 100  
120 13.8 12.9 19.3  
236 25.7 20.9 31.3

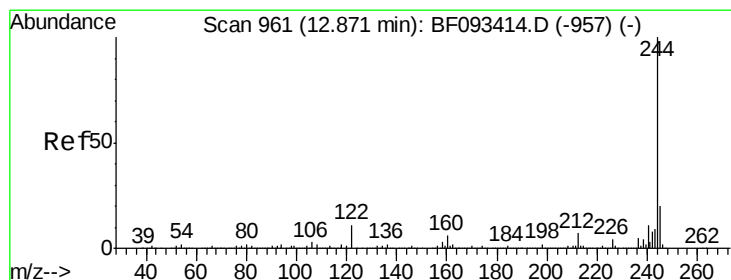
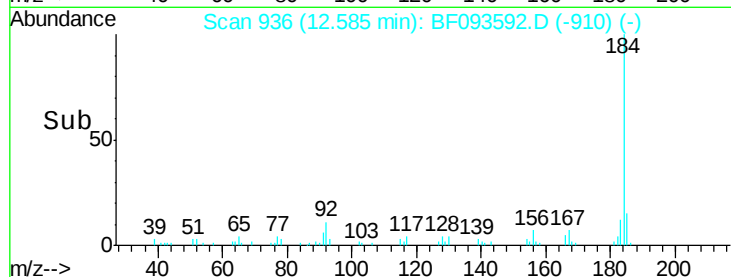
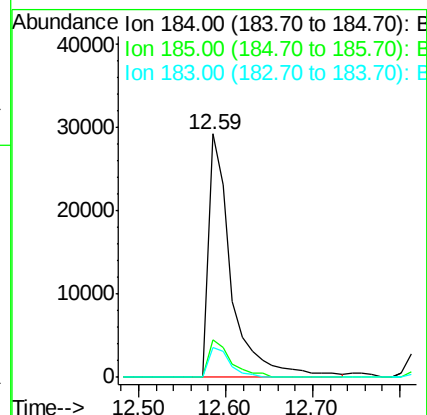
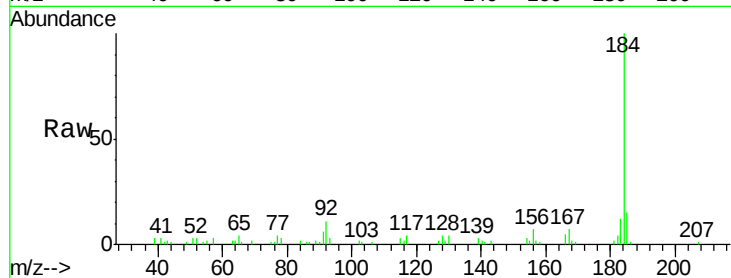




#76  
Benzidine  
Concen: 4.24 ng  
RT: 12.59 min Scan# 936  
Delta R.T. -0.00 min  
Lab File: BF093592.D  
Acq: 12 Mar 2017 5:48

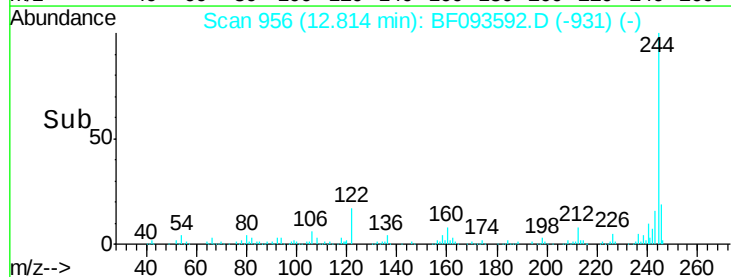
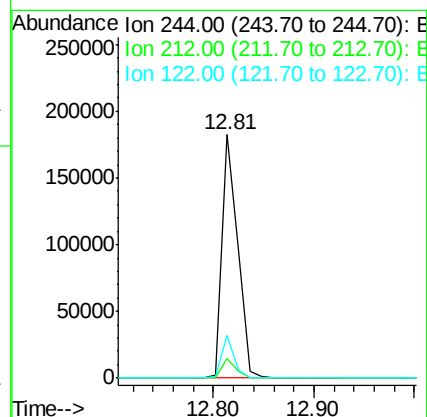
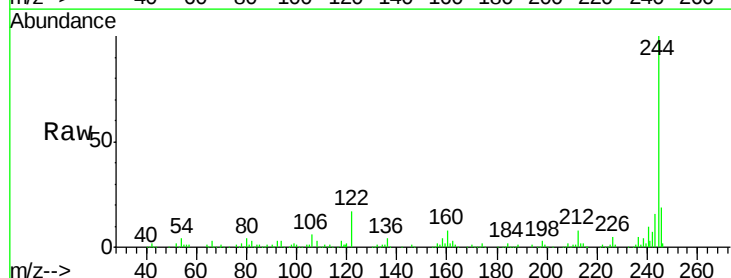
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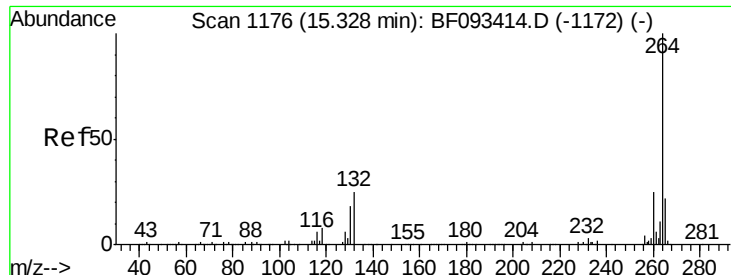
Tgt Ion:184 Resp: 53168  
Ion Ratio Lower Upper  
184 100  
185 15.5 13.4 20.0  
183 12.4 9.2 13.8



#78  
Terphenyl-d14  
Concen: 13.49 ng  
RT: 12.81 min Scan# 956  
Delta R.T. -0.01 min  
Lab File: BF093592.D  
Acq: 12 Mar 2017 5:48

Tgt Ion:244 Resp: 197946  
Ion Ratio Lower Upper  
244 100  
212 7.9 6.2 9.2  
122 17.4 11.4 17.2#

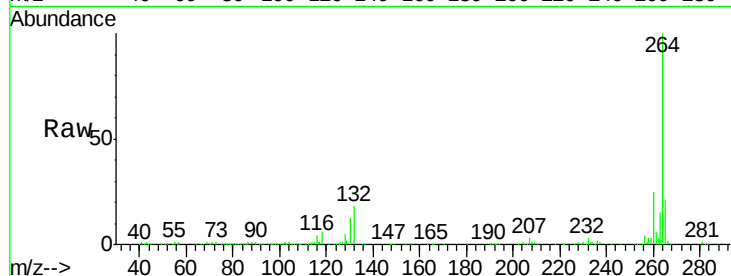




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.28 min Scan# 1172  
Delta R.T. -0.00 min  
Lab File: BF093592.D  
Acq: 12 Mar 2017 5:48

Instrument :  
BNA\_F  
ClientSampleId :  
W-21RE

Tgt Ion: 264 Resp: 332709  
Ion Ratio Lower Upper  
264 100  
260 24.8 19.2 28.8  
265 20.5 17.4 26.0



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

