

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080216\  
 Data File : BE092122.D  
 Acq On : 2 Aug 2016 22:00  
 Operator : UM/SJ  
 Sample : H4152-03  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW-13-6.0-15.0

Quant Time: Aug 03 04:10:41 2016  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 02 16:59:37 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.18  | 152  | 8932     | 5.00  | ng    | 0.01     |
| 6) Naphthalene-d8           | 10.99 | 136  | 40608    | 5.00  | ng    | 0.00     |
| 10) Acenaphthene-d10        | 14.83 | 164  | 23038    | 5.00  | ng    | -0.02    |
| 16) Phenanthrene-d10        | 17.56 | 188  | 53116    | 5.00  | ng    | -0.02    |
| 22) Chrysene-d12            | 21.73 | 240  | 76185    | 5.00  | ng    | -0.02    |
| 28) Perylene-d12            | 24.14 | 264  | 77670    | 5.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.69  | 112  | 9444     | 4.12  | ng    | 0.00     |
| 5) Phenol-d6                | 7.34  | 99   | 7835     | 2.56  | ng    | -0.01    |
| 7) Nitrobenzene-d5          | 9.34  | 82   | 12958    | 4.04  | ng    | -0.01    |
| 11) 2,4,6-Tribromophenol    | 16.33 | 330  | 7702     | 10.30 | ng    | 0.00     |
| 12) 2-Fluorobiphenyl        | 13.46 | 172  | 30013    | 4.11  | ng    | 0.00     |
| 24) Terphenyl-d14           | 20.19 | 244  | 49754    | 4.55  | ng    | -0.02    |

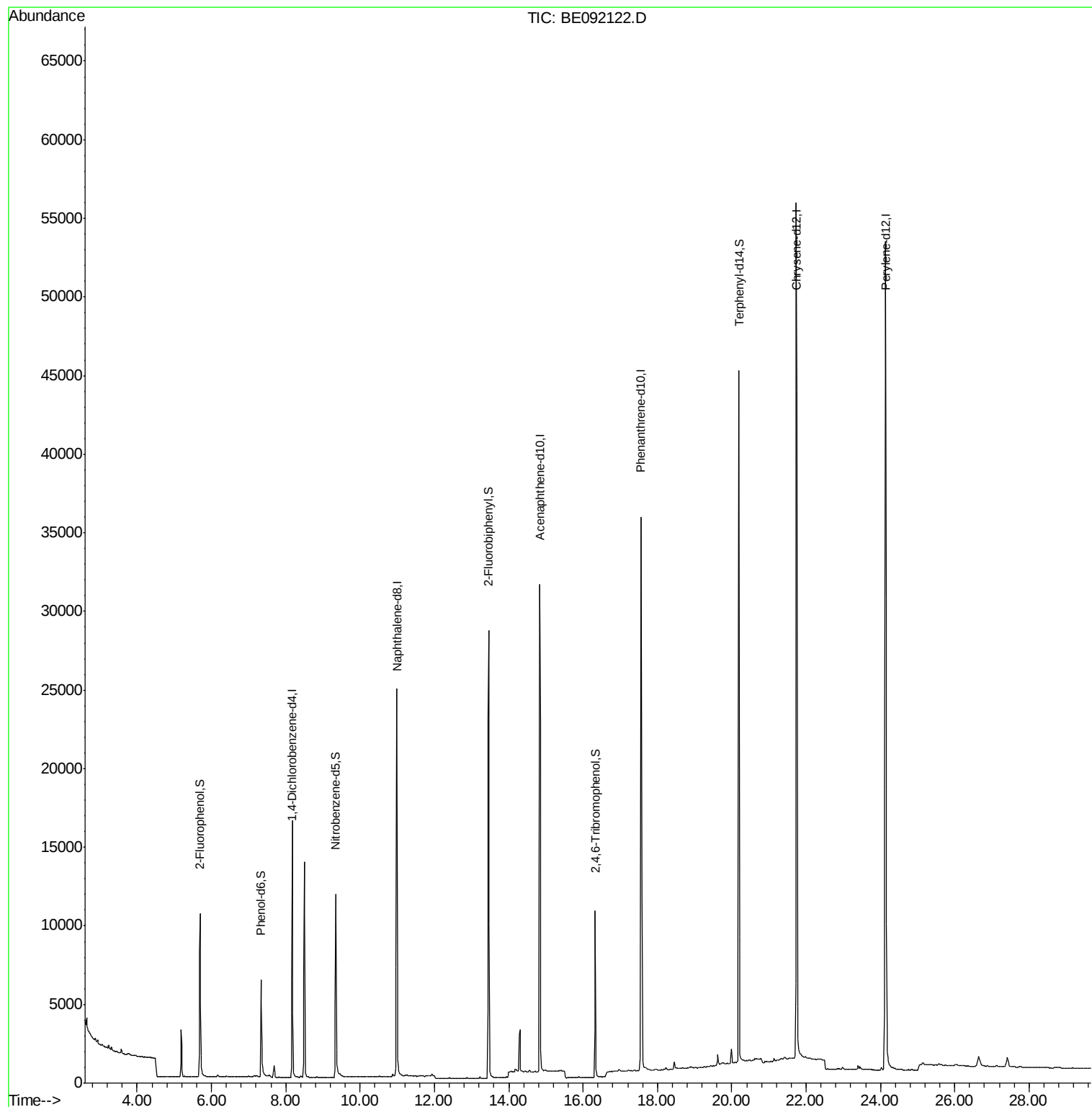
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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QLast Update : Tue Aug 02 16:59:37 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.18 min Scan# 480

Delta R.T. 0.01 min

Lab File: BE092122.D

Acq: 2 Aug 2016 22:00

Instrument :

BNA\_E

ClientSampleId :

GW-13-6.0-15.0

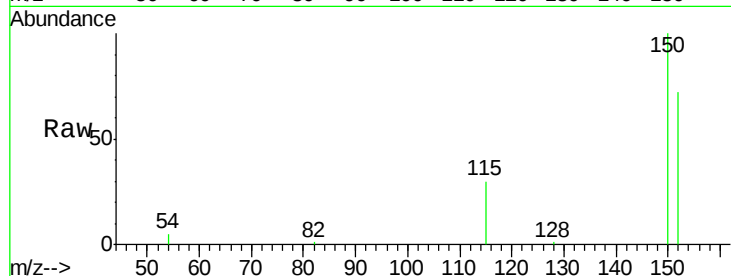
Tot Ion:152 Resp: 8932

Ion Ratio Lower Upper

152 100

150 139.2 106.0 159.0

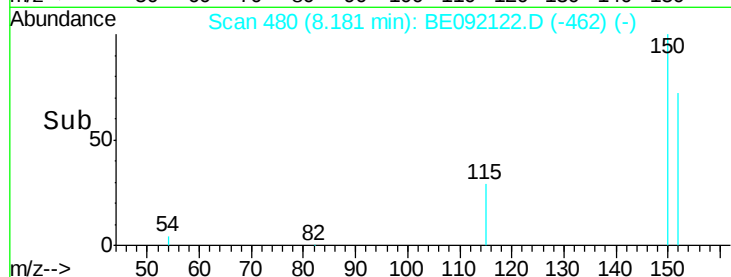
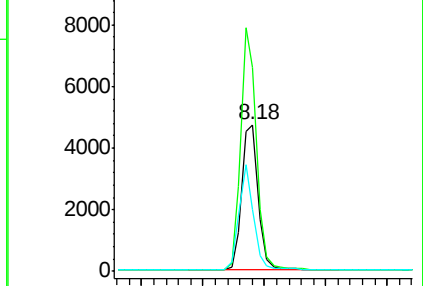
115 41.8 36.9 55.3



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



#4

2-Fluorophenol

Concen: 4.12 ng

RT: 5.69 min Scan# 267

Delta R.T. 0.00 min

Lab File: BE092122.D

Acq: 2 Aug 2016 22:00

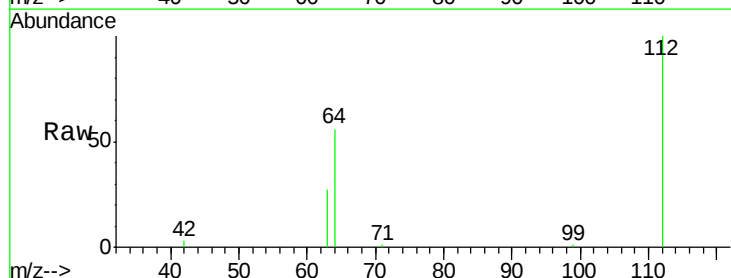
Tgt Ion:112 Resp: 9444

Ion Ratio Lower Upper

112 100

64 66.5 55.9 83.9

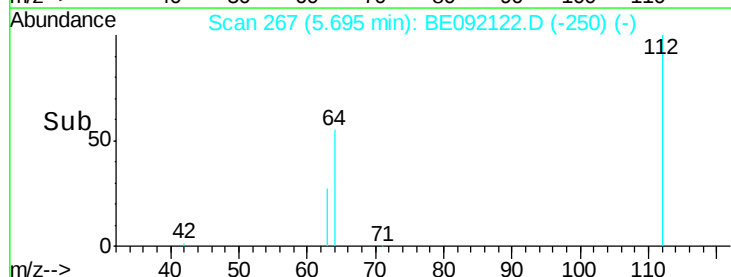
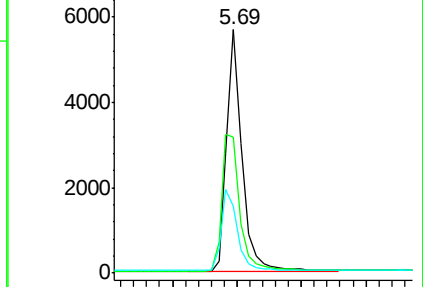
63 36.3 31.1 46.7



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 2.56 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092122.D

Acq: 2 Aug 2016 22:00

Instrument :

BNA\_E

ClientSampleId :

GW-13-6.0-15.0

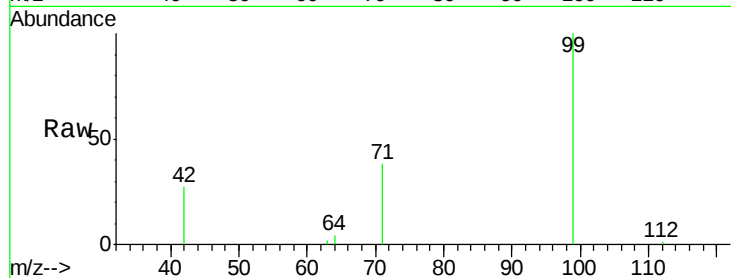
Tot Ion: 99 Resp: 7835

Ion Ratio Lower Upper

99 100

42 24.3 22.4 33.6

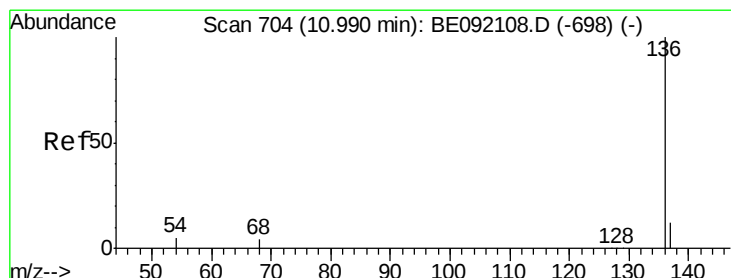
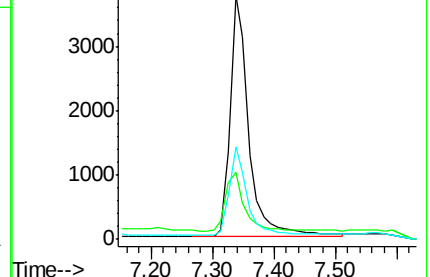
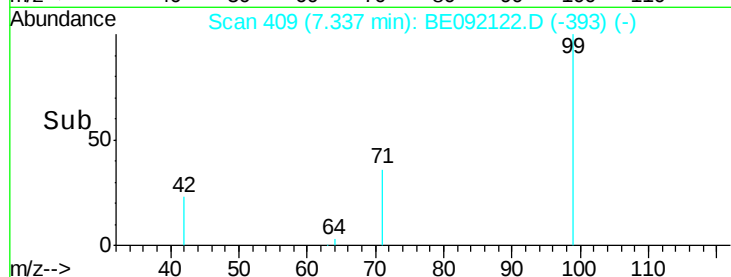
71 35.0 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BE092108.D (-403) (-)

Ion 42.00 (41.70 to 42.70): BE092108.D (-403) (-)

Ion 71.00 (70.70 to 71.70): BE092108.D (-403) (-)



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.99 min Scan# 704

Delta R.T. -0.00 min

Lab File: BE092122.D

Acq: 2 Aug 2016 22:00

Tgt Ion: 136 Resp: 40608

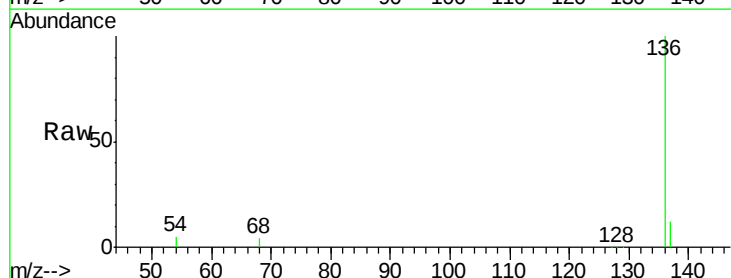
Ion Ratio Lower Upper

136 100

137 11.9 9.1 13.7

54 4.8 2.7 4.1#

68 4.1 2.2 3.4#

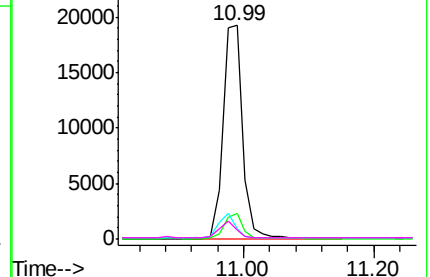
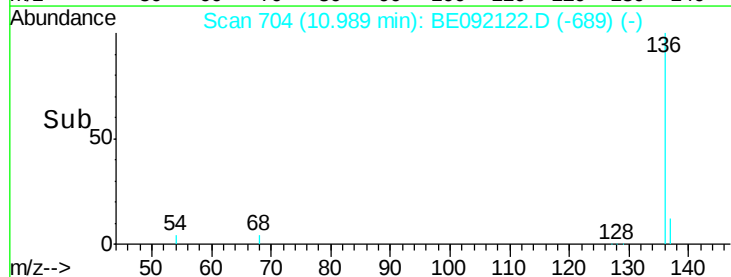


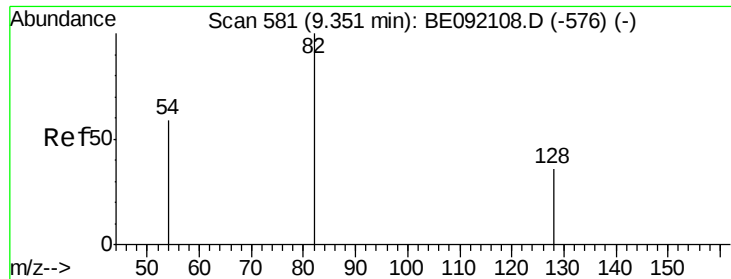
Abundance Ion 136.00 (135.70 to 136.70): BE092108.D (-698) (-)

Ion 137.00 (136.70 to 137.70): BE092108.D (-698) (-)

Ion 54.00 (53.70 to 54.70): BE092108.D (-698) (-)

Ion 68.00 (67.70 to 68.70): BE092108.D (-698) (-)





#7

Nitrobenzene-d5

Concen: 4.04 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092122.D

Acq: 2 Aug 2016 22:00

Instrument :

BNA\_E

ClientSampleId :

GW-13-6.0-15.0

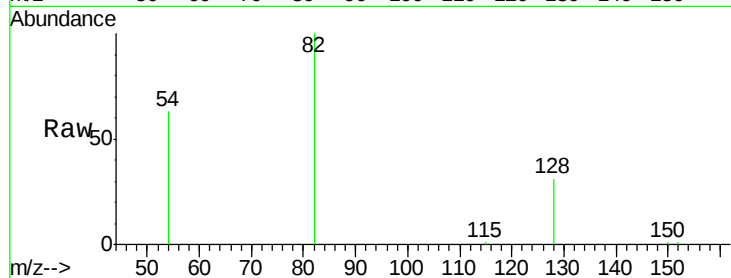
Tot Ion: 82 Resp: 12958

Ion Ratio Lower Upper

82 100

128 31.5 33.0 49.4#

54 63.3 42.6 63.8

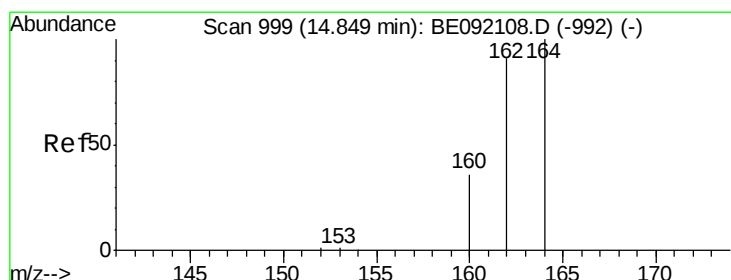
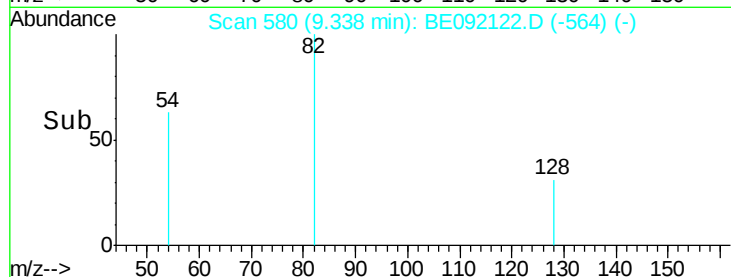


Abundance Ion 82.00 (81.70 to 82.70): BE092108.D (-576) (-)

Ion 128.00 (127.70 to 128.70): BE092108.D (-576) (-)

Ion 54.00 (53.70 to 54.70): BE092108.D (-576) (-)

Time-->



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 998

Delta R.T. -0.02 min

Lab File: BE092122.D

Acq: 2 Aug 2016 22:00

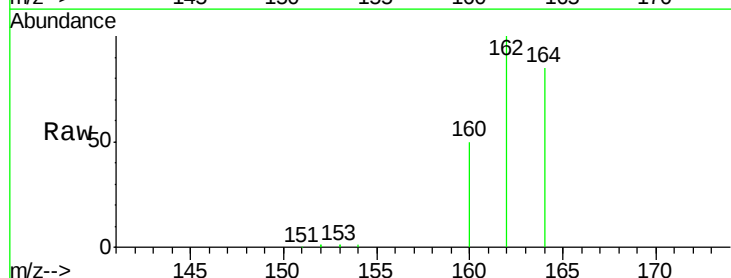
Tgt Ion: 164 Resp: 23038

Ion Ratio Lower Upper

164 100

162 117.3 69.5 104.3#

160 59.0 27.6 41.4#

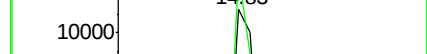
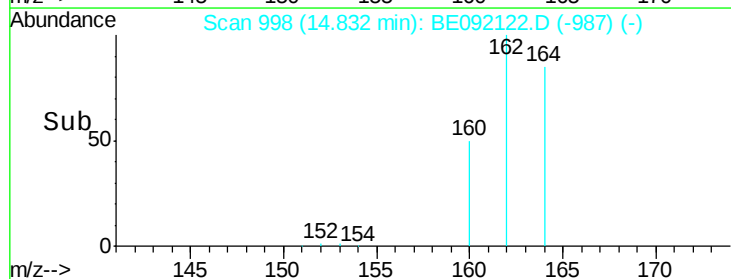


Abundance Ion 164.00 (163.70 to 164.70): BE092108.D (-992) (-)

Ion 162.00 (161.70 to 162.70): BE092108.D (-992) (-)

Ion 160.00 (159.70 to 160.70): BE092108.D (-992) (-)

Time-->

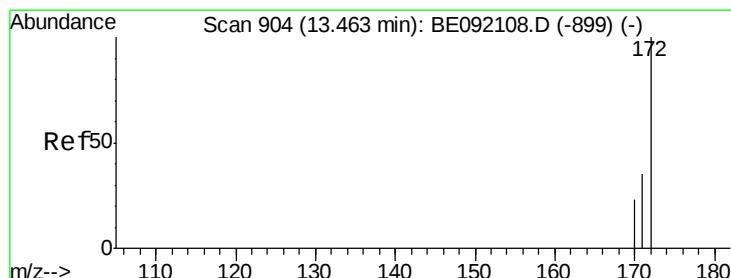
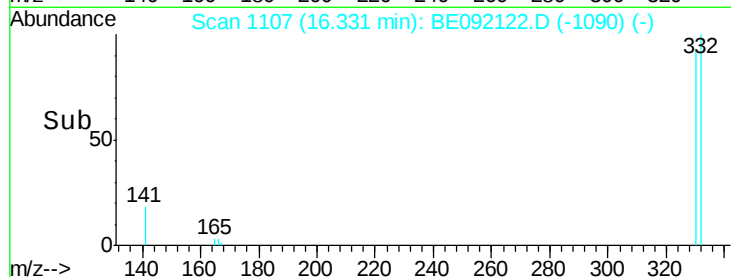
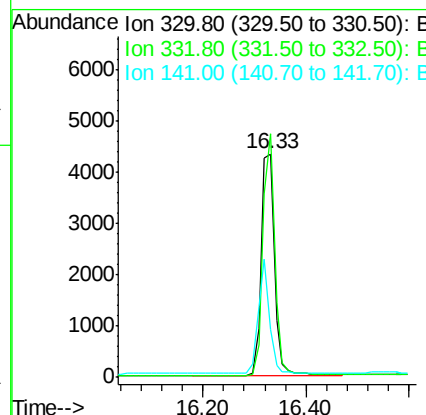
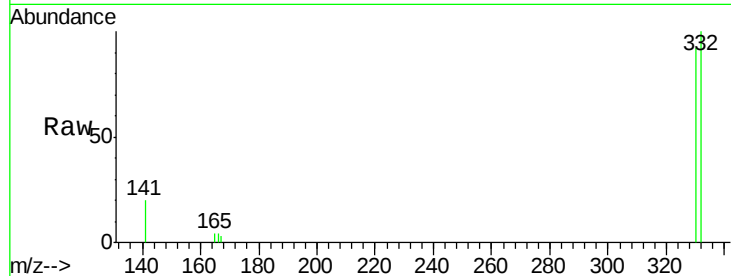




#11  
 2,4,6-Tribromophenol  
 Concen: 10.30 ng  
 RT: 16.33 min Scan# 1107  
 Delta R.T. 0.00 min  
 Lab File: BE092122.D  
 Acq: 2 Aug 2016 22:00

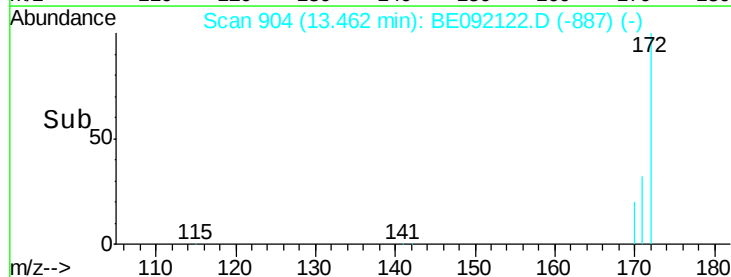
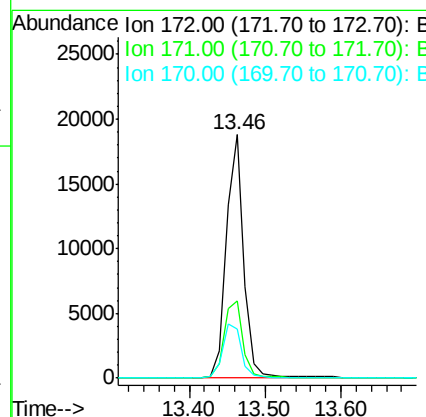
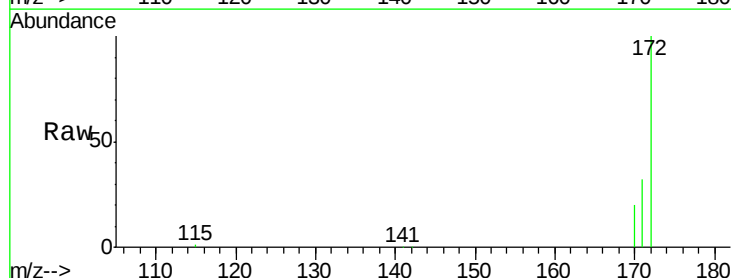
Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW-13-6.0-15.0

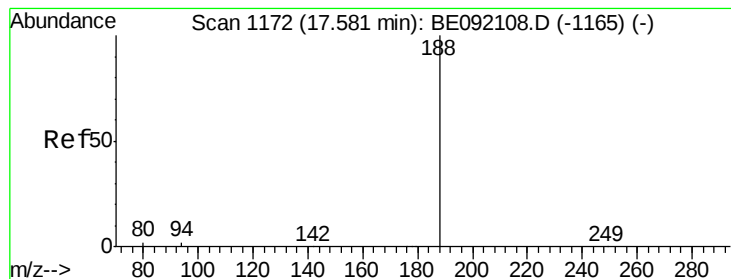
Tot Ion:330 Resp: 7702  
 Ion Ratio Lower Upper  
 330 100  
 332 97.3 74.2 111.4  
 141 43.4 139.8 209.8#



#12  
 2-Fluorobiphenyl  
 Concen: 4.11 ng  
 RT: 13.46 min Scan# 904  
 Delta R.T. -0.00 min  
 Lab File: BE092122.D  
 Acq: 2 Aug 2016 22:00

Tgt Ion:172 Resp: 30013  
 Ion Ratio Lower Upper  
 172 100  
 171 31.9 30.3 45.5  
 170 20.0 21.6 32.4#





#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1171

Delta R.T. -0.02 min

Lab File: BE092122.D

Acq: 2 Aug 2016 22:00

Instrument :

BNA\_E

ClientSampleId :

GW-13-6.0-15.0

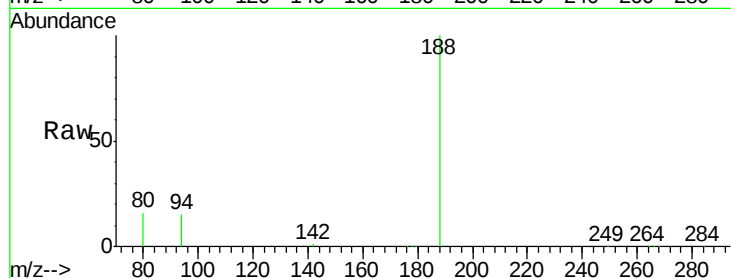
Tot Ion:188 Resp: 53116

Ion Ratio Lower Upper

188 100

94 15.3 3.9 5.9#

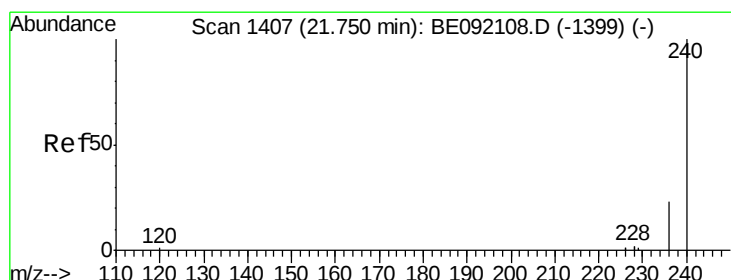
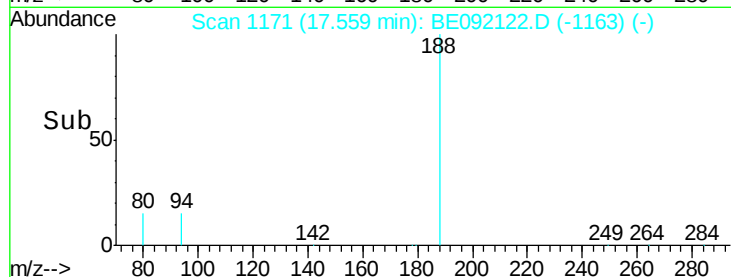
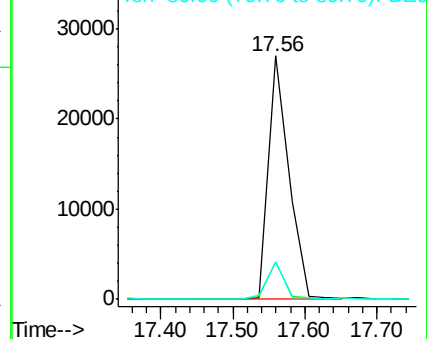
80 15.5 3.4 5.0#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.73 min Scan# 1406

Delta R.T. -0.02 min

Lab File: BE092122.D

Acq: 2 Aug 2016 22:00

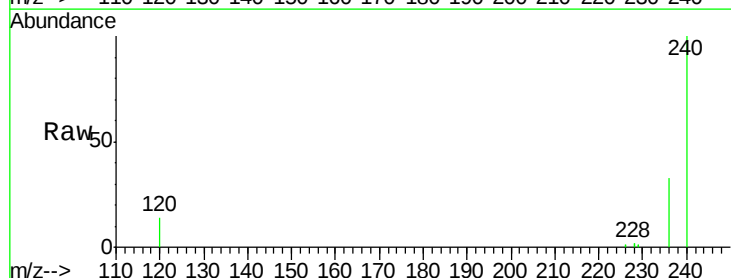
Tgt Ion:240 Resp: 76185

Ion Ratio Lower Upper

240 100

120 14.5 0.6 1.0#

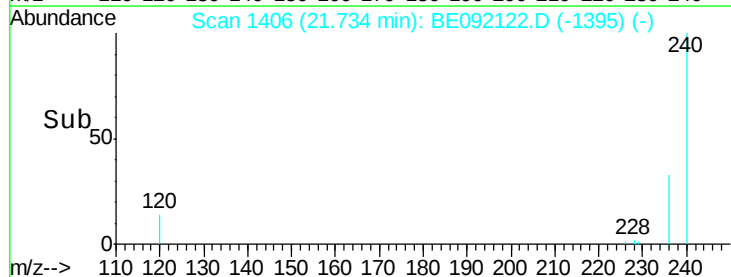
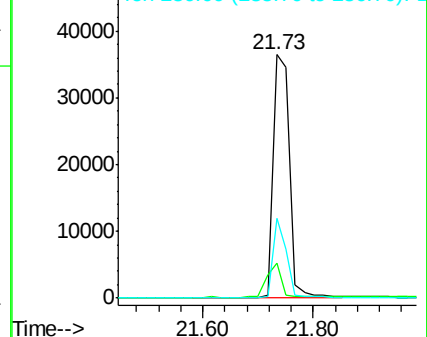
236 33.0 18.2 27.4#

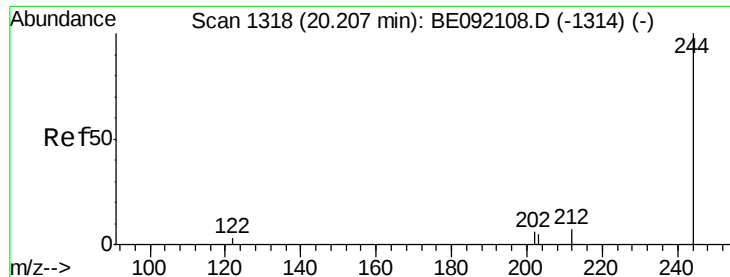


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#24

Terphenyl-d14

Concen: 4.55 ng

RT: 20.19 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BE092122.D

Acq: 2 Aug 2016 22:00

Instrument :

BNA\_E

ClientSampleId :

GW-13-6.0-15.0

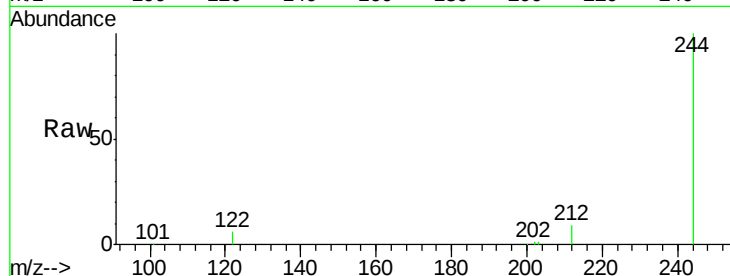
Tot Ion:244 Resp: 49754

Ion Ratio Lower Upper

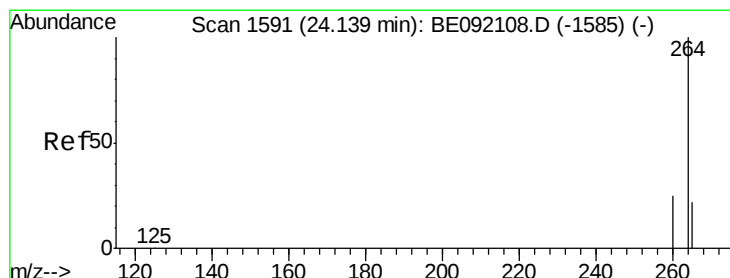
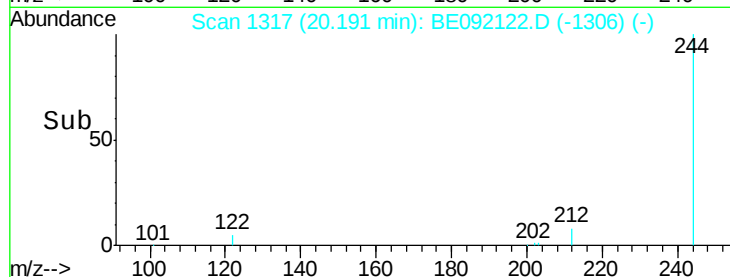
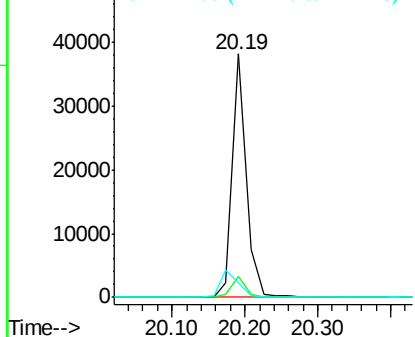
244 100

212 8.6 9.1 13.7#

122 5.8 11.0 16.4#



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



#28

Perylene-d12

Concen: 5.00 ng

RT: 24.14 min Scan# 1591

Delta R.T. 0.00 min

Lab File: BE092122.D

Acq: 2 Aug 2016 22:00

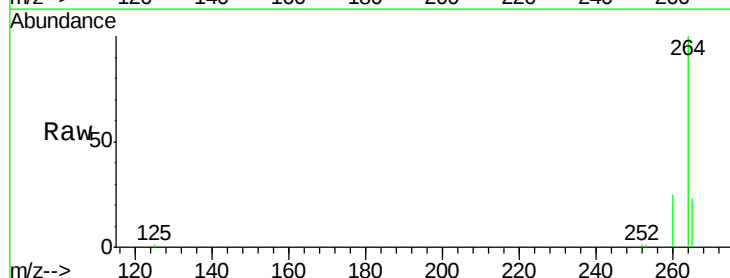
Tgt Ion:264 Resp: 77670

Ion Ratio Lower Upper

264 100

260 24.5 20.8 31.2

265 22.5 16.6 25.0



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

