

Data Path : Z:\HPCHEM1\BNA E\DATA\BE070516\  
 Data File : BE091970.D  
 Acq On : 5 Jul 2016 20:29  
 Operator : UM/SJ  
 Sample : PB91781BL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB91781BL

Quant Time: Jul 06 05:57:43 2016  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE070516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 05 16:14:58 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.20  | 152  | 21914    | 5.00 | ng    | 0.00     |
| 8) Naphthalene-d8           | 10.99 | 136  | 98910    | 5.00 | ng    | 0.00     |
| 15) Acenaphthene-d10        | 14.86 | 164  | 70035    | 5.00 | ng    | 0.00     |
| 24) Phenanthrene-d10        | 17.59 | 188  | 153164   | 5.00 | ng    | 0.00     |
| 31) Chrysene-d12            | 21.76 | 240  | 291433   | 5.00 | ng    | 0.00     |
| 40) Perylene-d12            | 24.18 | 264  | 227108   | 5.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |      |       |          |
| 4) 2-Fluorophenol           | 5.70  | 112  | 31392    | 5.99 | ng    | -0.02    |
| 5) Phenol-d6                | 7.35  | 99   | 41969    | 5.76 | ng    | -0.02    |
| 9) Nitrobenzene-d5          | 9.36  | 82   | 22474    | 3.34 | ng    | -0.02    |
| 16) 2,4,6-Tribromophenol    | 16.35 | 330  | 11176    | 4.52 | ng    | 0.00     |
| 17) 2-Fluorobiphenyl        | 13.49 | 172  | 59493    | 3.48 | ng    | 0.00     |
| 34) Terphenyl-d14           | 20.22 | 244  | 115306   | 3.35 | ng    | 0.00     |

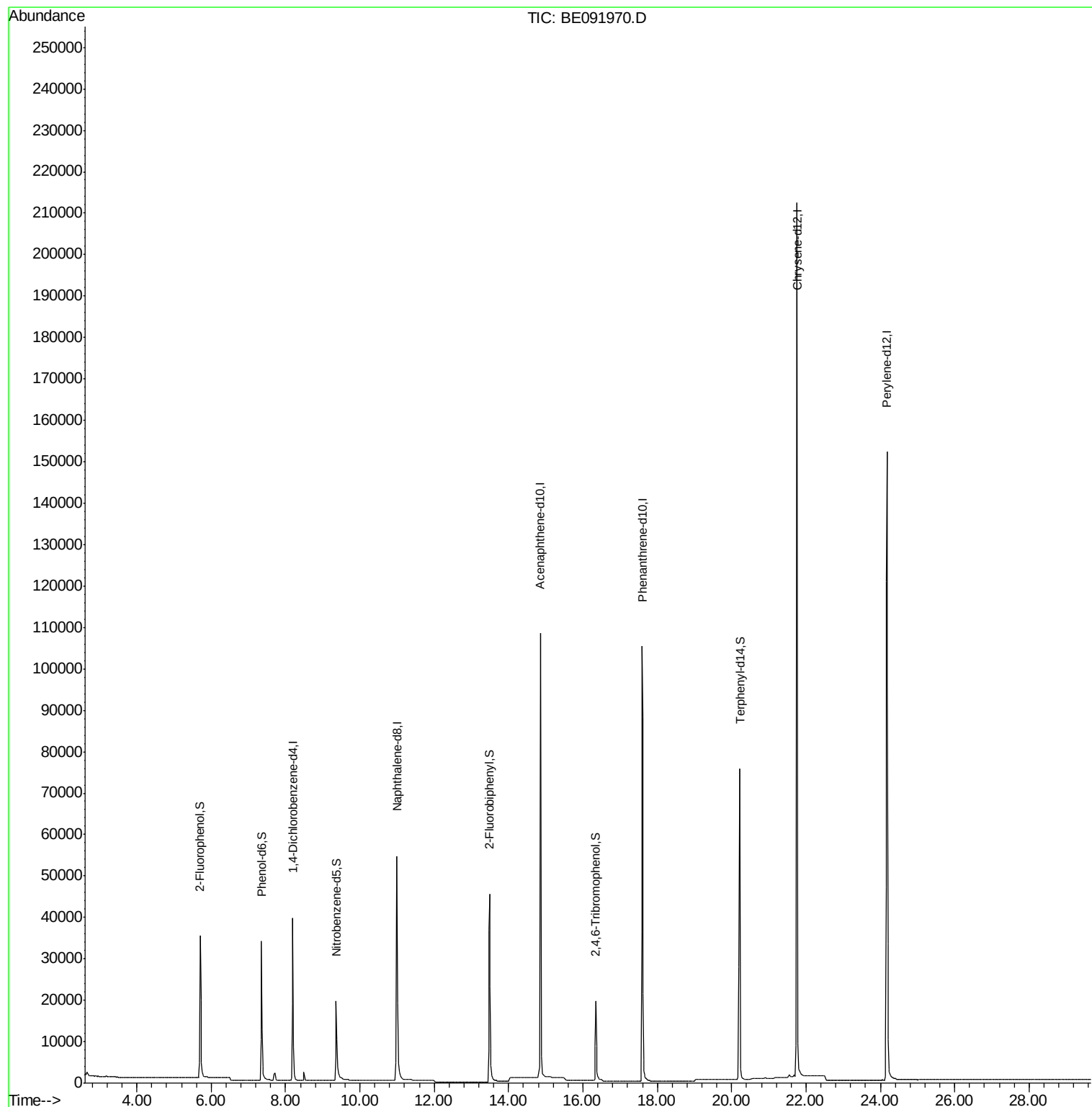
Target Compounds Qvalue

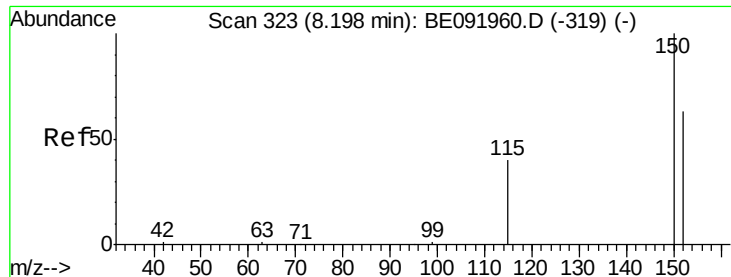
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE070516\  
Data File : BE091970.D  
Acq On : 5 Jul 2016 20:29  
Operator : UM/SJ  
Sample : PB91781BL  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
PB91781BL

Quant Time: Jul 06 05:57:43 2016  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE070516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 05 16:14:58 2016  
Response via : Initial Calibration



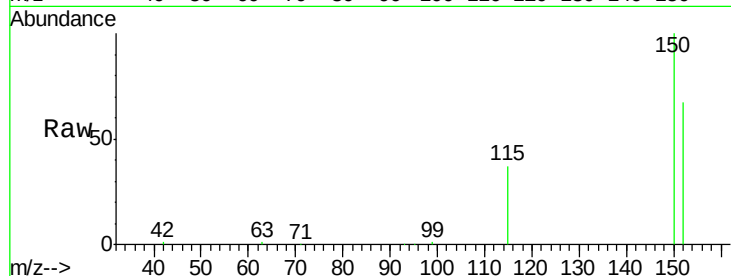


#1

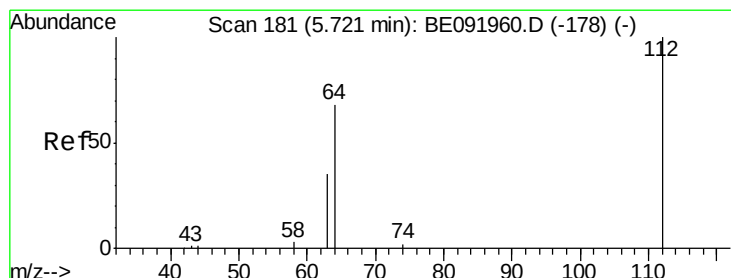
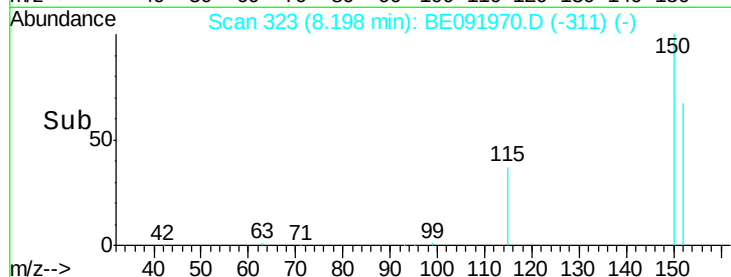
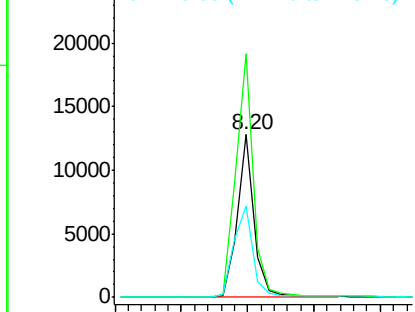
1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 8.20 min Scan# 323  
Delta R.T. -0.00 min  
Lab File: BE091970.D  
Acq: 5 Jul 2016 20:29

Instrument :  
BNA\_E  
ClientSampleId :  
PB91781BL

Tot Ion:152 Resp: 21914  
Ion Ratio Lower Upper  
152 100  
150 149.9 123.9 185.9  
115 56.1 48.3 72.5



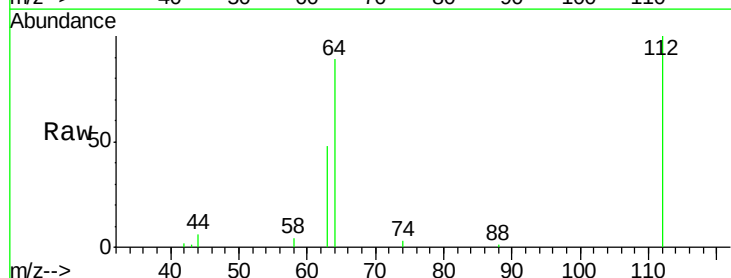
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



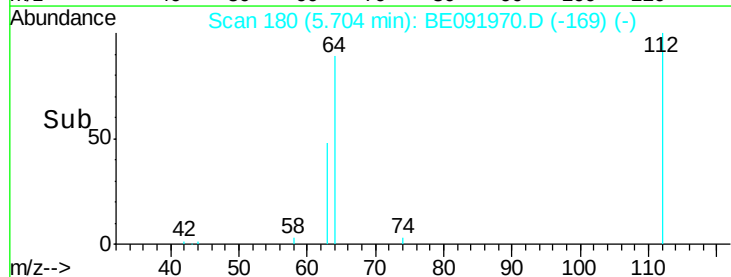
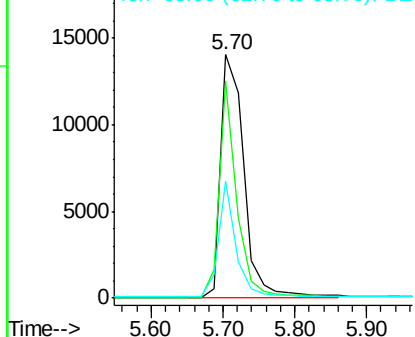
#4

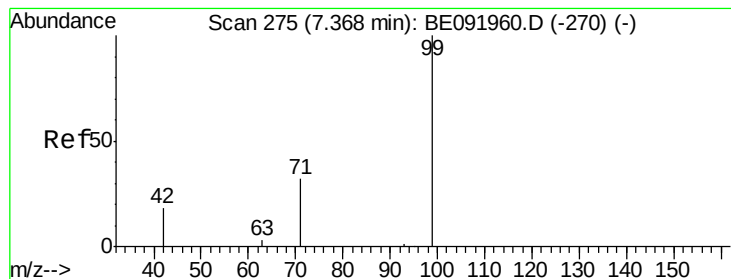
2-Fluorophenol  
Concen: 5.99 ng  
RT: 5.70 min Scan# 180  
Delta R.T. -0.02 min  
Lab File: BE091970.D  
Acq: 5 Jul 2016 20:29

Tgt Ion:112 Resp: 31392  
Ion Ratio Lower Upper  
112 100  
64 67.9 53.7 80.5  
63 36.4 29.5 44.3



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: 5.76 ng

RT: 7.35 min Scan# 274

Delta R.T. -0.02 min

Lab File: BE091970.D

Acq: 5 Jul 2016 20:29

Instrument :

BNA\_E

ClientSampleId :

PB91781BL

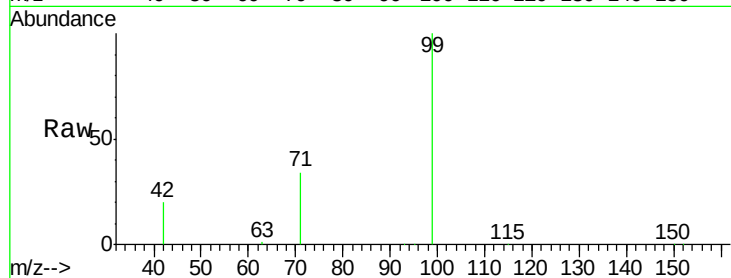
Tot Ion: 99 Resp: 41969

Ion Ratio Lower Upper

99 100

42 24.2 19.6 29.4

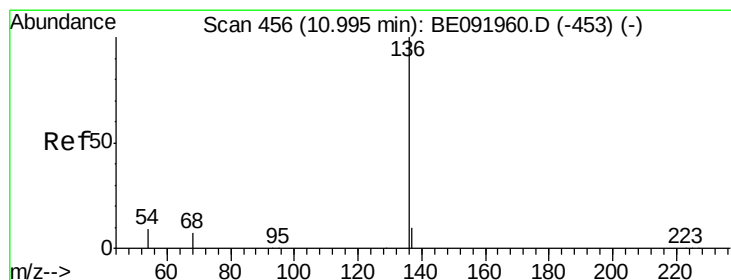
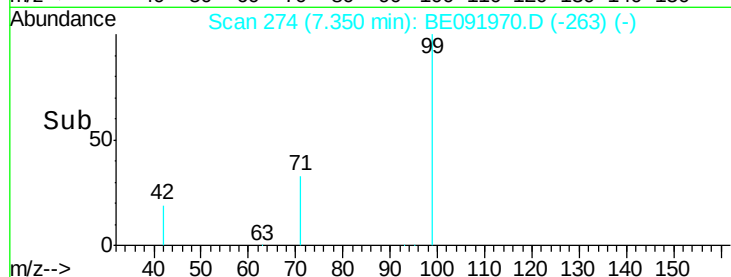
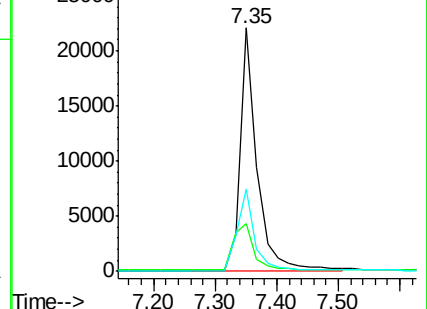
71 35.2 28.1 42.1



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.99 min Scan# 456

Delta R.T. -0.00 min

Lab File: BE091970.D

Acq: 5 Jul 2016 20:29

Tgt Ion: 136 Resp: 98910

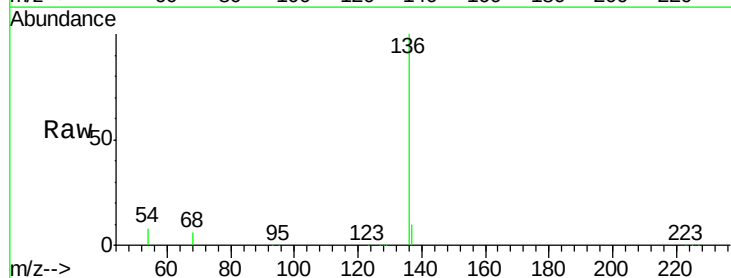
Ion Ratio Lower Upper

136 100

137 10.4 8.3 12.5

54 8.0 8.2 12.4#

68 6.1 5.9 8.9

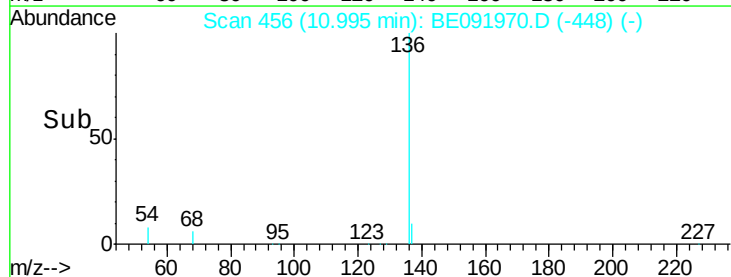
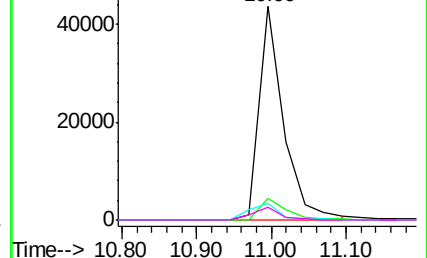


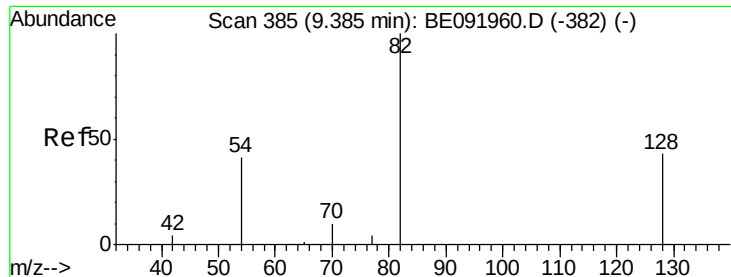
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#9

Nitrobenzene-d5

Concen: 3.34 ng

RT: 9.36 min Scan# 384

Delta R.T. -0.02 min

Lab File: BE091970.D

Acq: 5 Jul 2016 20:29

Instrument :

BNA\_E

ClientSampled :

PB91781BL

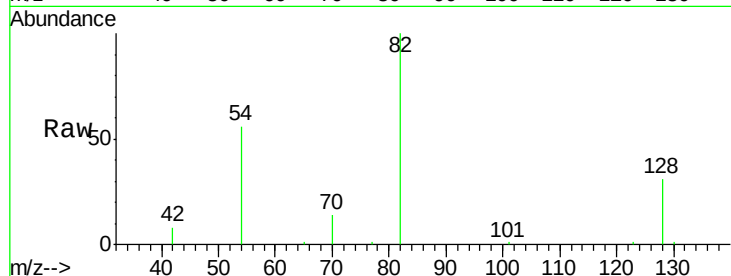
Tot Ion: 82 Resp: 22474

Ion Ratio Lower Upper

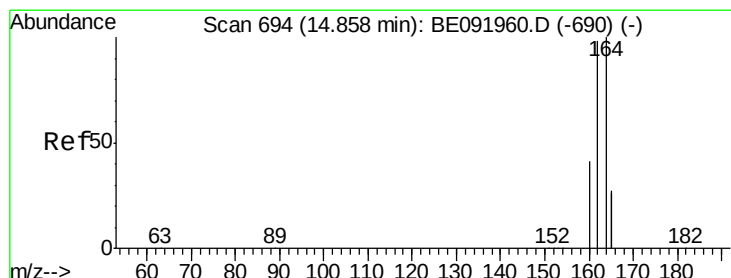
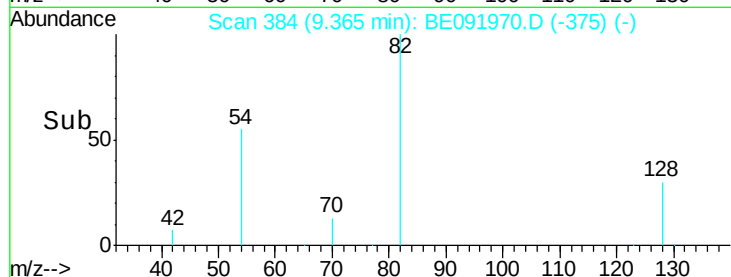
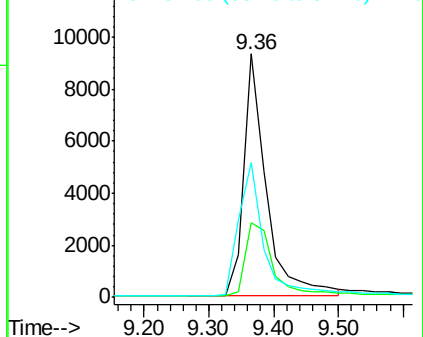
82 100

128 30.5 39.5 59.3#

54 55.6 30.3 45.5#



Abundance Ion 82.00 (81.70 to 82.70): BE0  
Ion 128.00 (127.70 to 128.70): BE0  
Ion 54.00 (53.70 to 54.70): BE0



#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.86 min Scan# 694

Delta R.T. -0.00 min

Lab File: BE091970.D

Acq: 5 Jul 2016 20:29

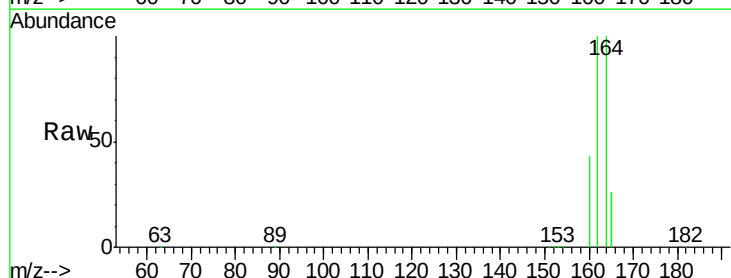
Tgt Ion: 164 Resp: 70035

Ion Ratio Lower Upper

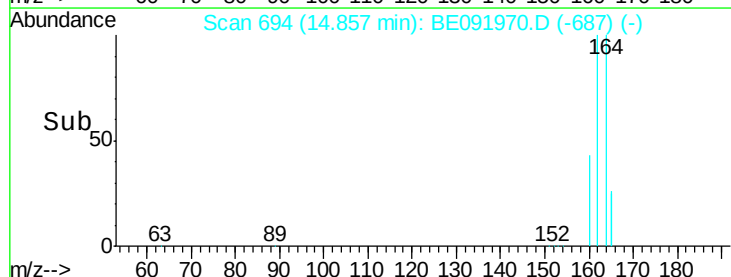
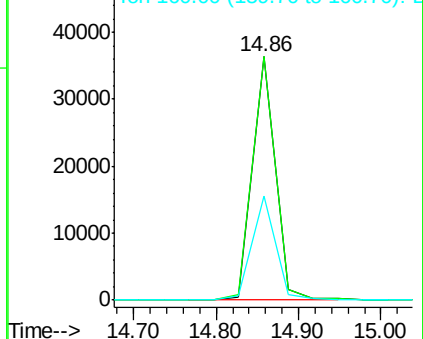
164 100

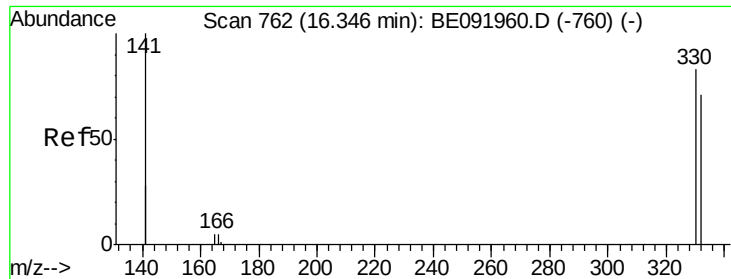
162 100.2 71.8 107.8

160 42.8 28.0 42.0#



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

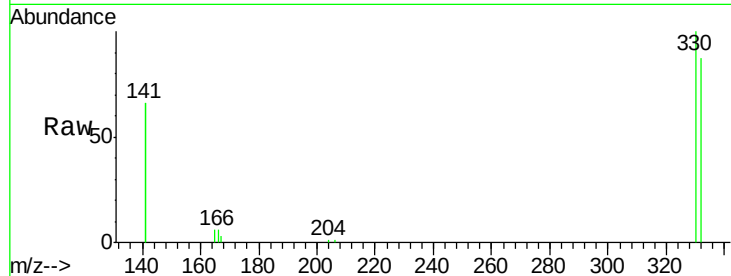




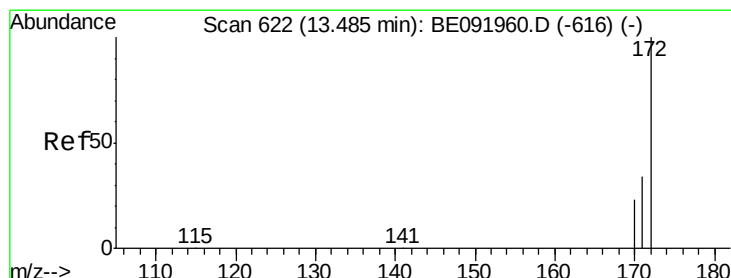
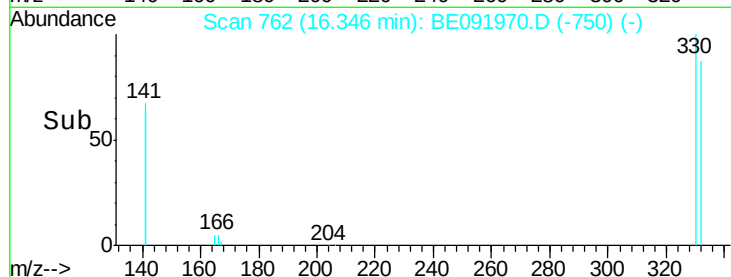
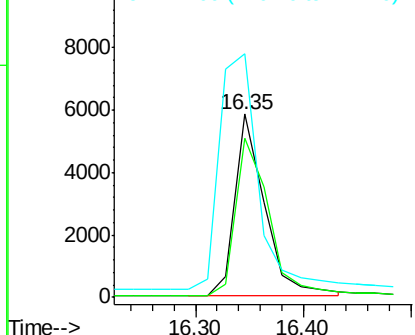
#16  
 2,4,6-Tribromophenol  
 Concen: 4.52 ng  
 RT: 16.35 min Scan# 762  
 Delta R.T. -0.00 min  
 Lab File: BE091970.D  
 Acq: 5 Jul 2016 20:29

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB91781BL

Tot Ion:330 Resp: 11176  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 77.0 115.6  
 141 167.8 138.4 207.6

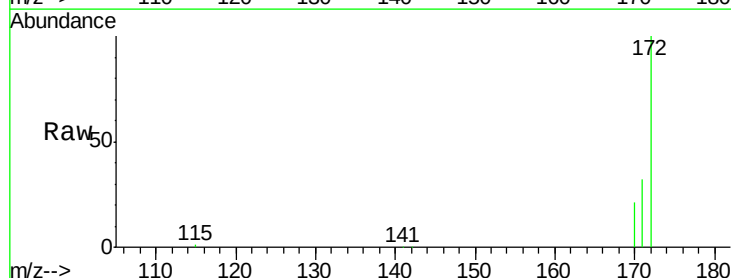


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

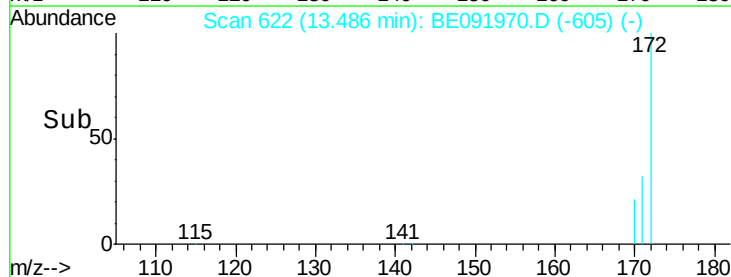
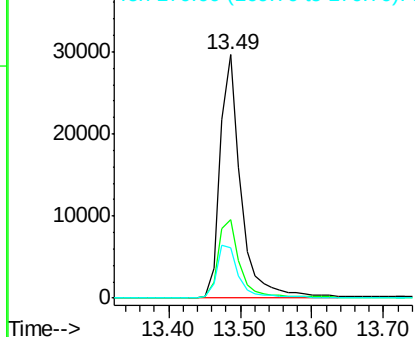


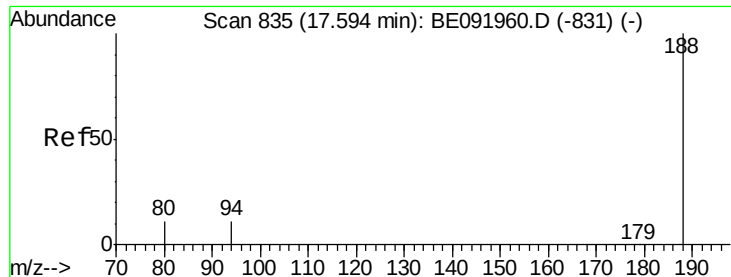
#17  
 2-Fluorobiphenyl  
 Concen: 3.48 ng  
 RT: 13.49 min Scan# 622  
 Delta R.T. 0.00 min  
 Lab File: BE091970.D  
 Acq: 5 Jul 2016 20:29

Tgt Ion:172 Resp: 59493  
 Ion Ratio Lower Upper  
 172 100  
 171 32.2 24.3 36.5  
 170 20.8 14.9 22.3



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

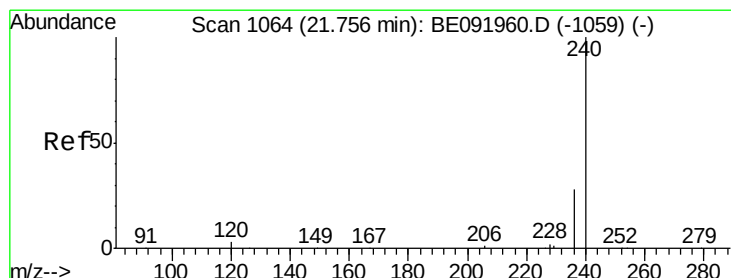
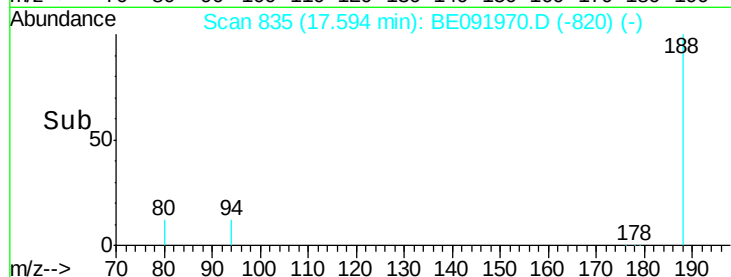
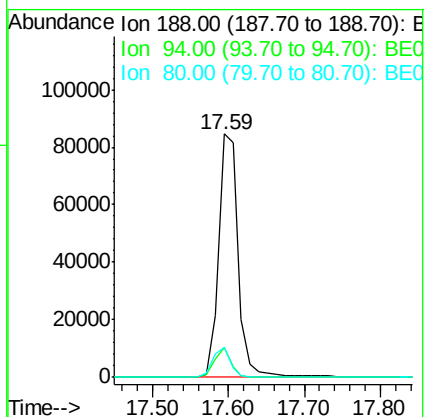
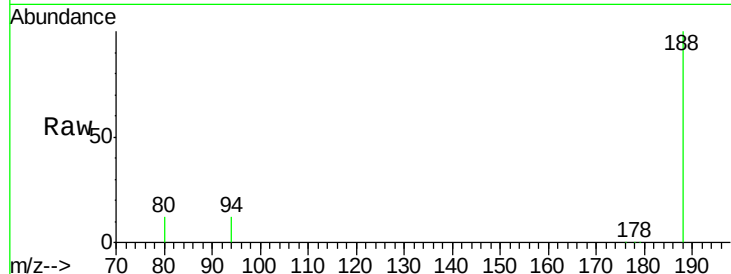




#24  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.59 min Scan# 835  
Delta R.T. -0.00 min  
Lab File: BE091970.D  
Acq: 5 Jul 2016 20:29

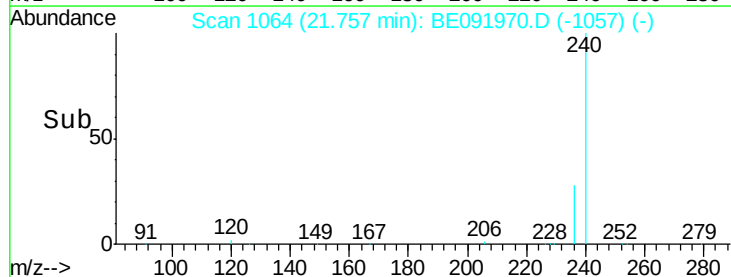
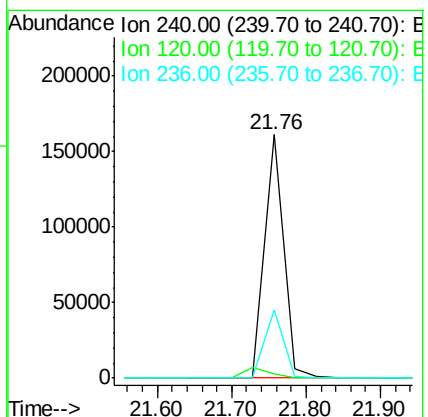
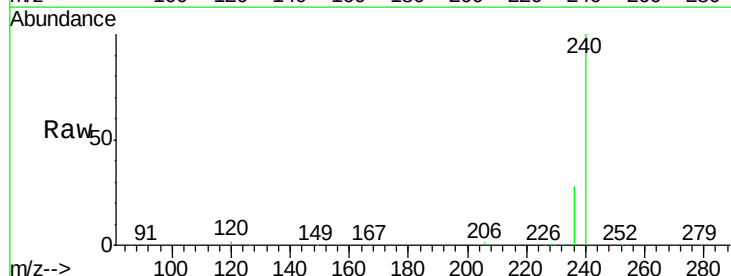
Instrument :  
BNA\_E  
ClientSampled :  
PB91781BL

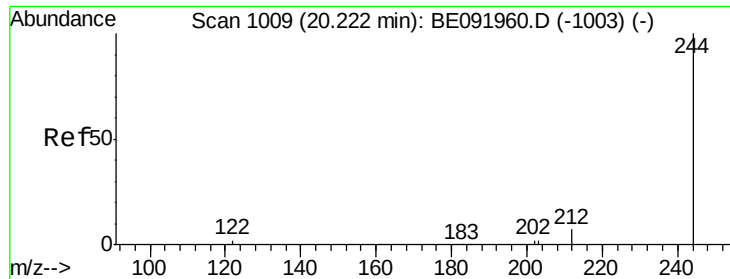
Tot Ion:188 Resp: 153164  
Ion Ratio Lower Upper  
188 100  
94 12.0 4.1 6.1#  
80 12.2 3.4 5.2#



#31  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.76 min Scan# 1064  
Delta R.T. 0.00 min  
Lab File: BE091970.D  
Acq: 5 Jul 2016 20:29

Tgt Ion:240 Resp: 291433  
Ion Ratio Lower Upper  
240 100  
120 1.9 1.2 1.8#  
236 28.0 19.8 29.8





#34

Terphenyl-d14

Concen: 3.35 ng

RT: 20.22 min Scan# 1009

Delta R.T. -0.00 min

Lab File: BE091970.D

Acq: 5 Jul 2016 20:29

Instrument :

BNA\_E

ClientSampleId :

PB91781BL

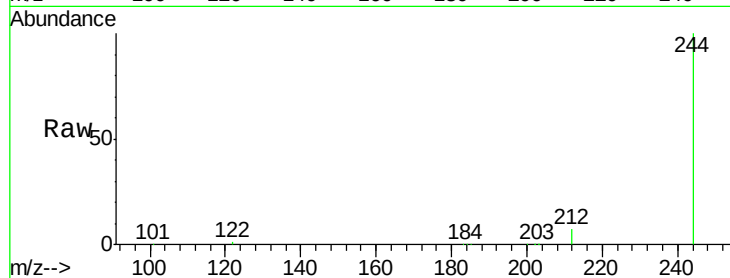
Tot Ion:244 Resp: 115306

Ion Ratio Lower Upper

244 100

212 6.8 6.5 9.7

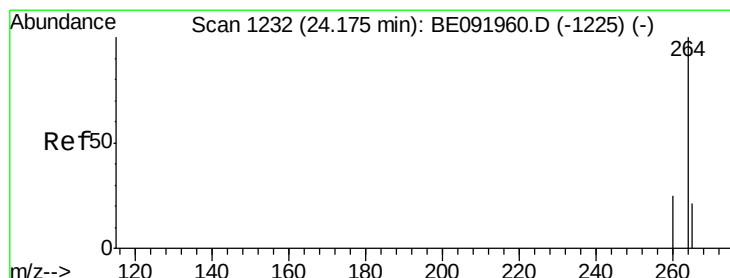
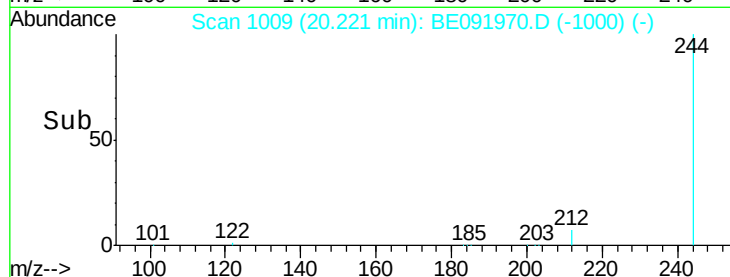
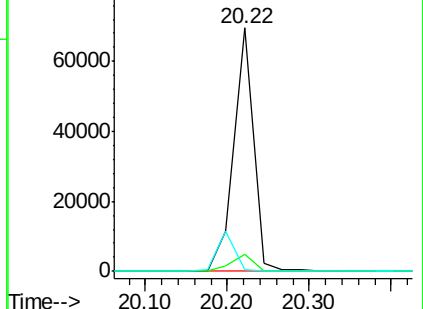
122 0.7 2.9 4.3#



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



#40

Perylene-d12

Concen: 5.00 ng

RT: 24.18 min Scan# 1232

Delta R.T. 0.00 min

Lab File: BE091970.D

Acq: 5 Jul 2016 20:29

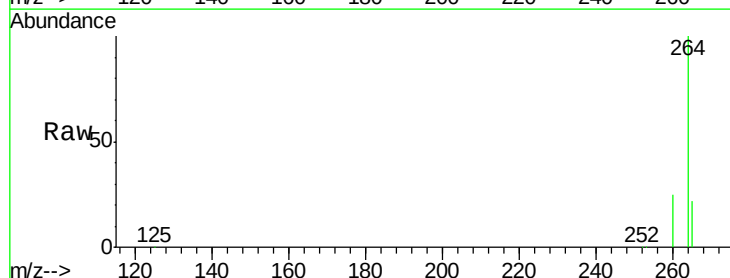
Tgt Ion:264 Resp: 227108

Ion Ratio Lower Upper

264 100

260 24.9 20.3 30.5

265 22.0 17.6 26.4



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

