

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE020117\  
 Data File : BE092710.D  
 Acq On : 1 Feb 2017 11:51  
 Operator : SJ/MA  
 Sample : I1505-07DL 10X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SB-01BDL

Quant Time: Feb 01 14:26:01 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE011617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 17 10:14:01 2017  
 Response via : Initial Calibration

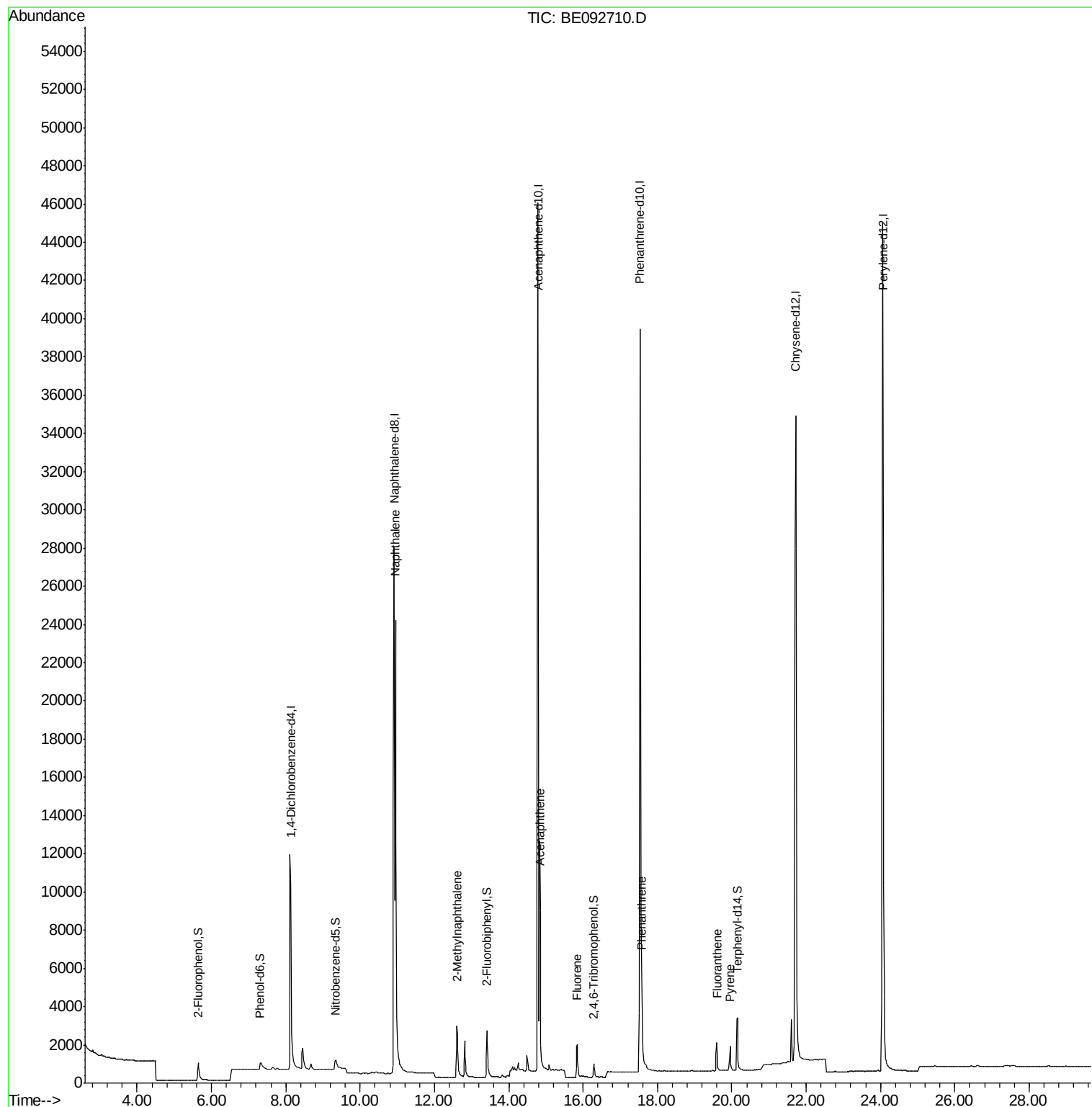
| Internal Standards          | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.14  | 152  | 10323    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.91 | 136  | 47150    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10        | 14.78 | 164  | 29053    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10        | 17.53 | 188  | 61527    | 5.00 | ng    | 0.00     |
| 24) Chrysene-d12            | 21.72 | 240  | 64230    | 5.00 | ng    | 0.00     |
| 31) Perylene-d12            | 24.06 | 264  | 72859    | 5.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |      |       |          |
| 4) 2-Fluorophenol           | 5.64  | 112  | 1304     | 0.57 | ng    | -0.01    |
| 5) Phenol-d6                | 7.31  | 99   | 1027     | 0.36 | ng    | -0.02    |
| 8) Nitrobenzene-d5          | 9.34  | 82   | 1365     | 0.45 | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol    | 16.28 | 330  | 717      | 0.95 | ng    | -0.01    |
| 14) 2-Fluorobiphenyl        | 13.41 | 172  | 3767     | 0.53 | ng    | -0.01    |
| 26) Terphenyl-d14           | 20.16 | 244  | 5497     | 0.61 | ng    | 0.00     |
| Target Compounds            |       |      |          |      |       | Qvalue   |
| 9) Naphthalene              | 10.95 | 128  | 38972    | 3.96 | ng    | # 95     |
| 11) 2-Methylnaphthalene     | 12.60 | 142  | 3509     | 0.57 | ng    | 98       |
| 16) Acenaphthene            | 14.85 | 154  | 2974     | 0.46 | ng    | 95       |
| 17) Fluorene                | 15.84 | 166  | 1959     | 0.24 | ng    | 96       |
| 21) Phenanthrene            | 17.58 | 178  | 3605     | 0.27 | ng    | 96       |
| 23) Fluoranthene            | 19.59 | 202  | 2636     | 0.04 | ng    | 99       |
| 25) Pyrene                  | 19.95 | 202  | 1992     | 0.03 | ng    | 94       |

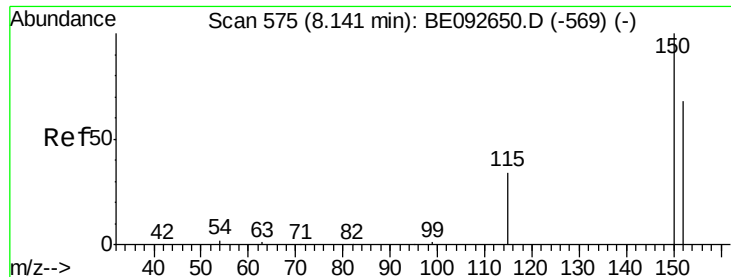
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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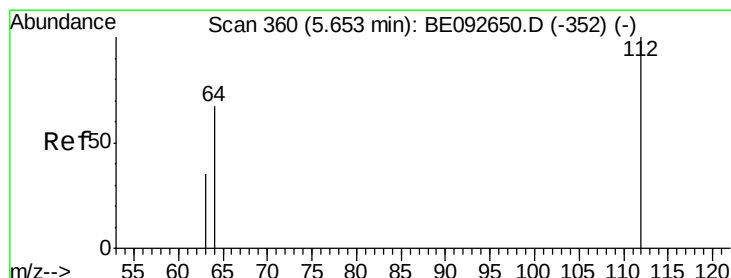
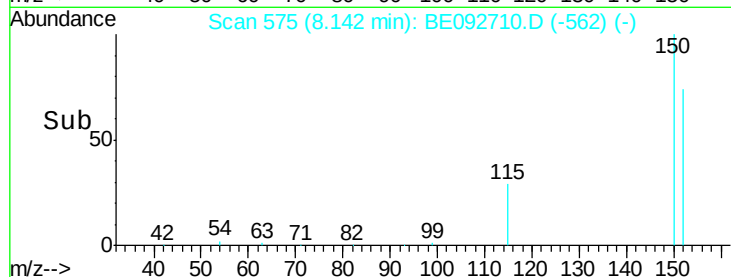
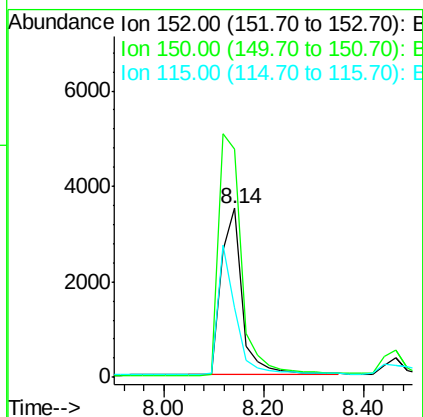
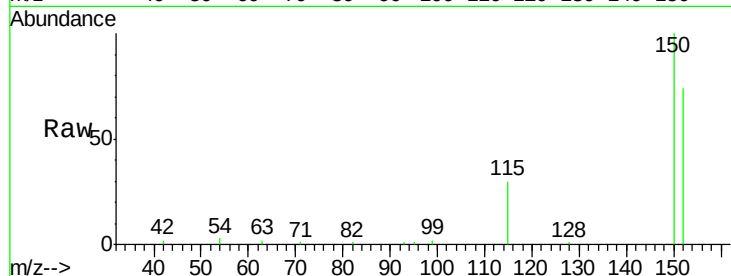


#1

1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 8.14 min Scan# 575  
Delta R.T. 0.00 min  
Lab File: BE092710.D  
Acq: 1 Feb 2017 11:51

Instrument :  
BNA\_E  
ClientSampleId :  
SB-01BDL

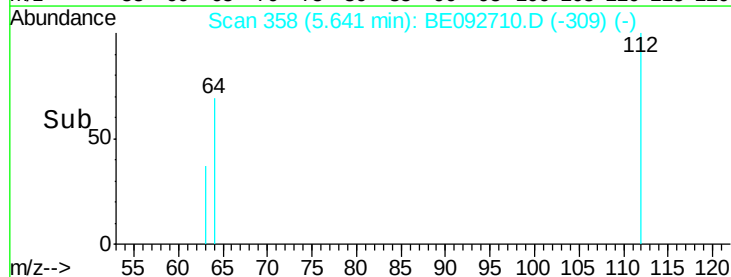
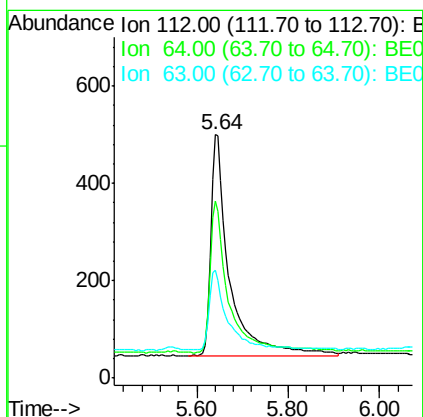
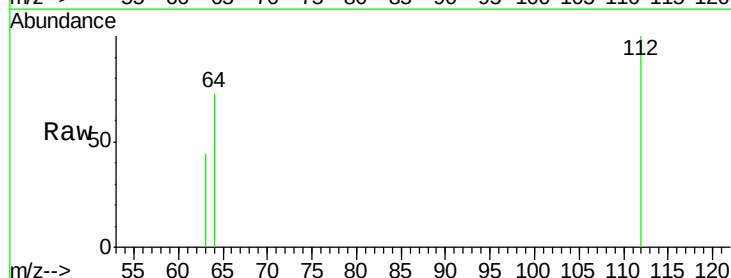
Tgt Ion:152 Resp: 10323  
Ion Ratio Lower Upper  
152 100  
150 135.0 106.0 159.0  
115 41.0 31.2 46.8

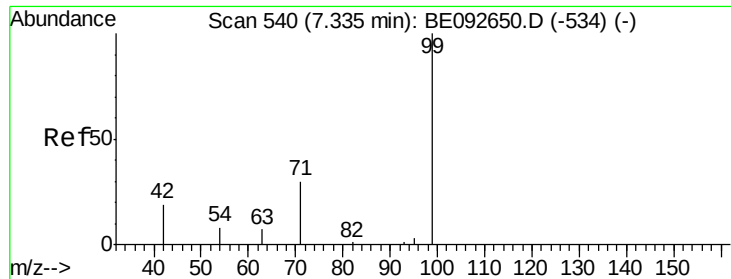


#4

2-Fluorophenol  
Concen: 0.57 ng  
RT: 5.64 min Scan# 358  
Delta R.T. -0.01 min  
Lab File: BE092710.D  
Acq: 1 Feb 2017 11:51

Tgt Ion:112 Resp: 1304  
Ion Ratio Lower Upper  
112 100  
64 66.6 53.5 80.3  
63 35.7 27.9 41.9





#5

Phenol-d6

Concen: 0.36 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.02 min

Lab File: BE092710.D

Acq: 1 Feb 2017 11:51

Instrument :

BNA\_E

ClientSampled :

SB-01BDL

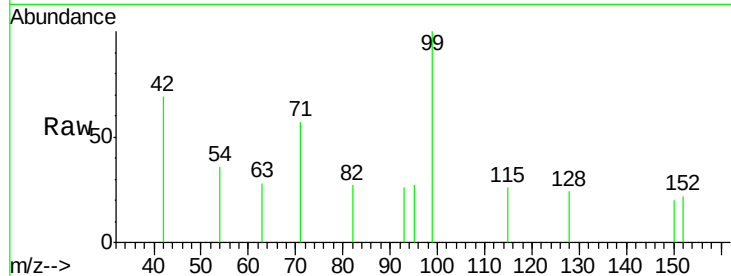
Tgt Ion: 99 Resp: 1027

Ion Ratio Lower Upper

99 100

42 28.4 16.0 24.0#

71 34.5 30.6 45.8



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

7.31

250

200

150

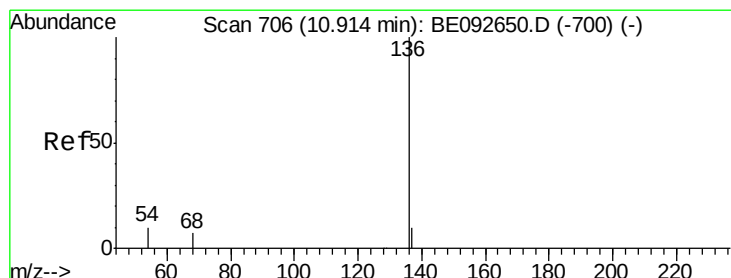
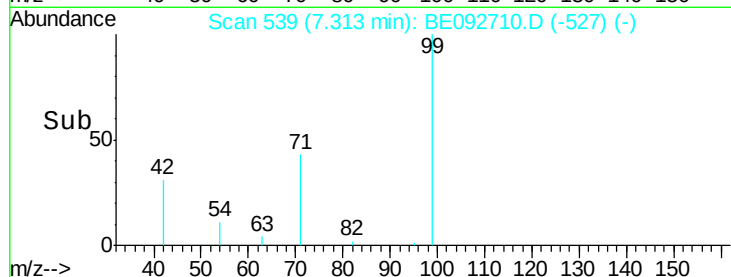
100

50

0

7.00 7.20 7.40 7.60

Time-->



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.91 min Scan# 706

Delta R.T. -0.00 min

Lab File: BE092710.D

Acq: 1 Feb 2017 11:51

Tgt Ion: 136 Resp: 47150

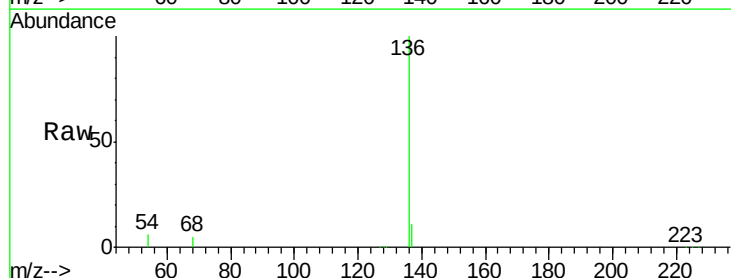
Ion Ratio Lower Upper

136 100

137 11.5 8.2 12.4

54 6.0 9.6 14.4#

68 4.7 6.7 10.1#



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

10.91

30000

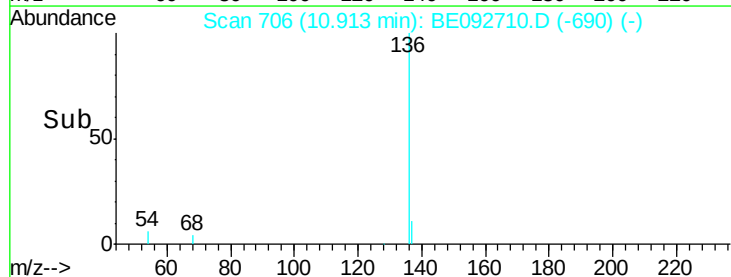
20000

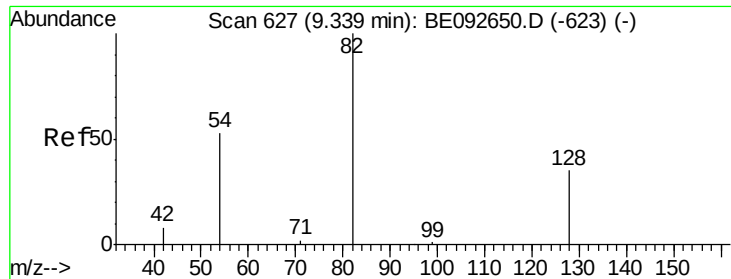
10000

0

10.60 10.80 11.00 11.20

Time-->





#8

Nitrobenzene-d5

Concen: 0.45 ng

RT: 9.34 min Scan# 627

Delta R.T. 0.00 min

Lab File: BE092710.D

Acq: 1 Feb 2017 11:51

Instrument :

BNA\_E

ClientSampleId :

SB-01BDL

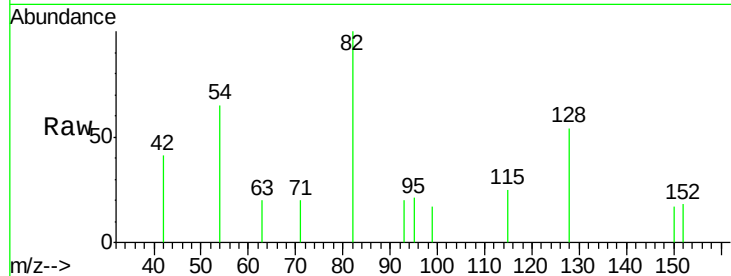
Tgt Ion: 82 Resp: 1365

Ion Ratio Lower Upper

82 100

128 54.2 39.0 58.4

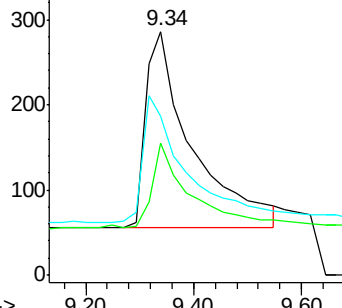
54 65.0 44.8 67.2



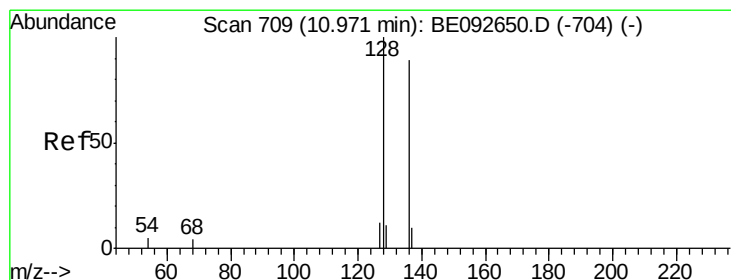
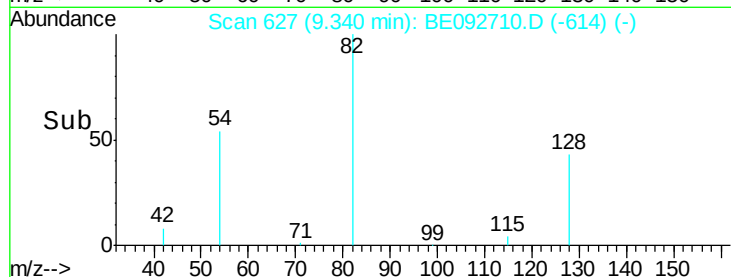
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



Time-->



#9

Naphthalene

Concen: 3.96 ng

RT: 10.95 min Scan# 708

Delta R.T. -0.02 min

Lab File: BE092710.D

Acq: 1 Feb 2017 11:51

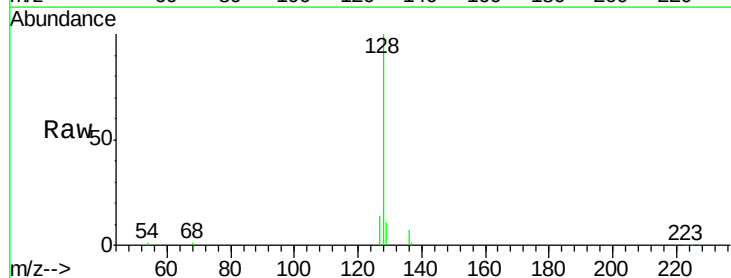
Tgt Ion: 128 Resp: 38972

Ion Ratio Lower Upper

128 100

129 10.8 11.2 16.8#

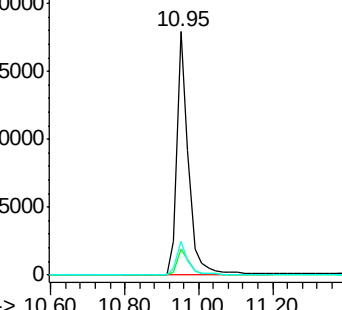
127 13.6 11.6 17.4



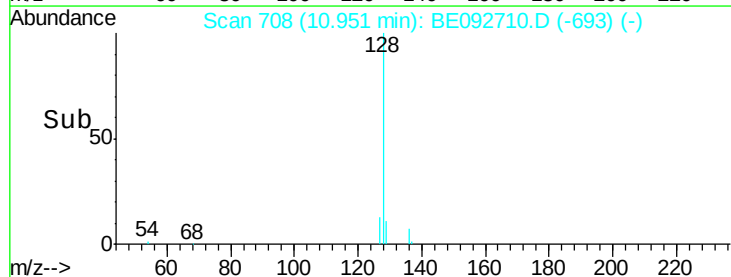
Abundance Ion 128.00 (127.70 to 128.70): E

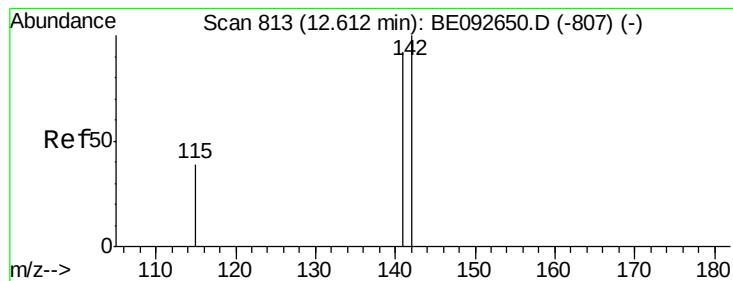
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



Time-->





#11

2-Methylnaphthalene

Concen: 0.57 ng

RT: 12.60 min Scan# 812

Delta R.T. -0.01 min

Lab File: BE092710.D

Acq: 1 Feb 2017 11:51

Instrument :

BNA\_E

ClientSampleId :

SB-01BDL

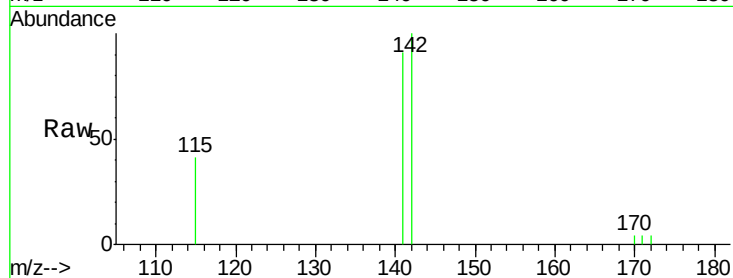
Tgt Ion:142 Resp: 3509

Ion Ratio Lower Upper

142 100

141 90.9 73.7 110.5

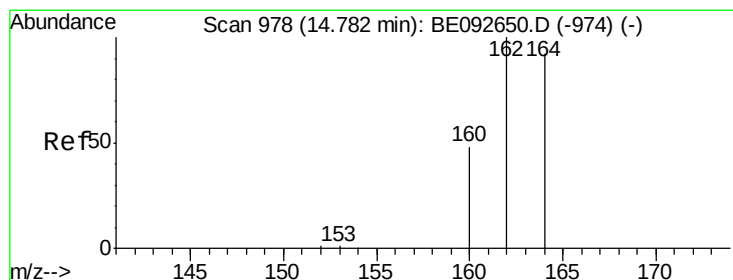
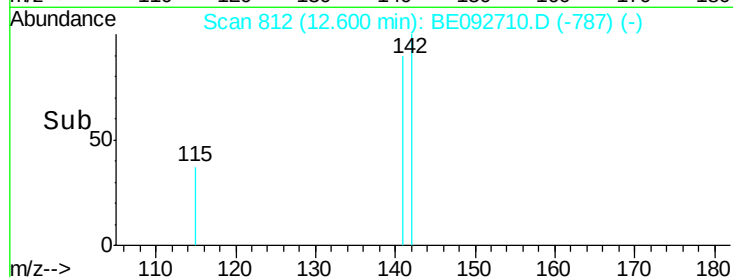
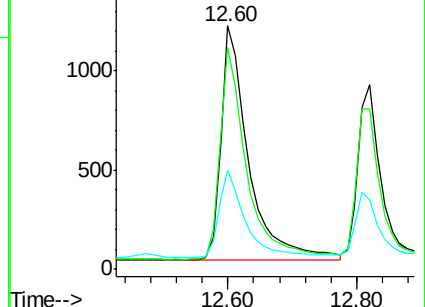
115 40.6 34.0 51.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.78 min Scan# 978

Delta R.T. -0.00 min

Lab File: BE092710.D

Acq: 1 Feb 2017 11:51

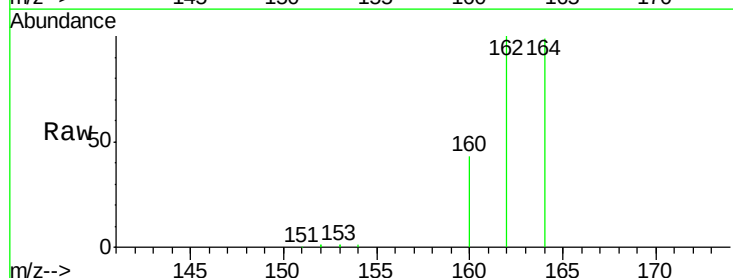
Tgt Ion:164 Resp: 29053

Ion Ratio Lower Upper

164 100

162 101.4 71.4 107.0

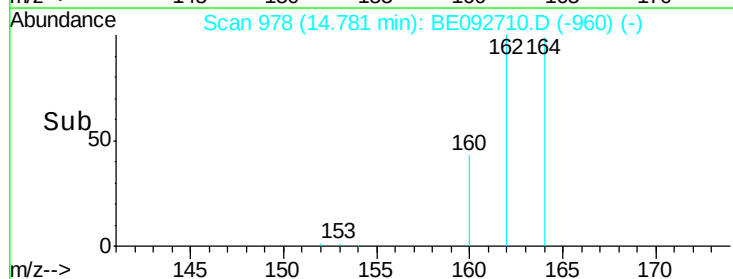
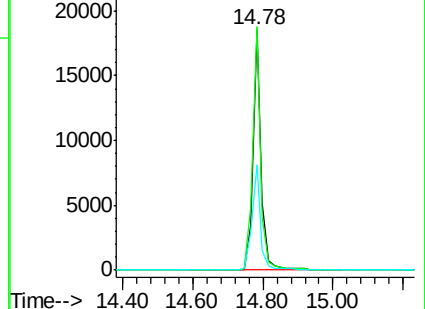
160 43.8 27.4 41.2#

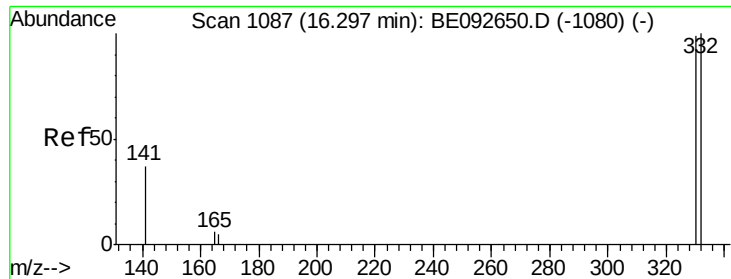


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

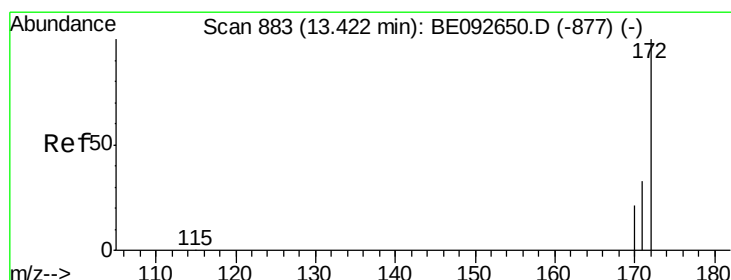
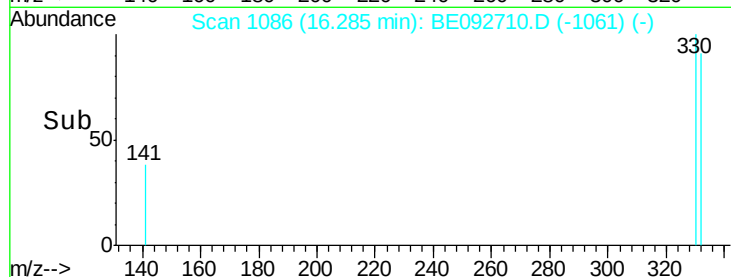
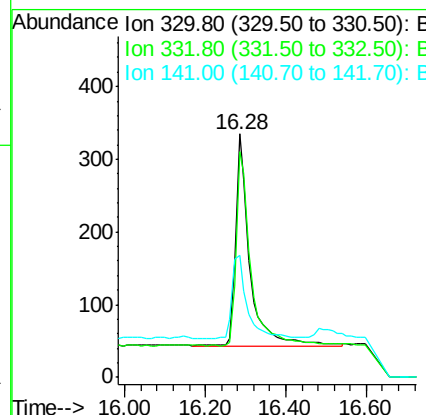
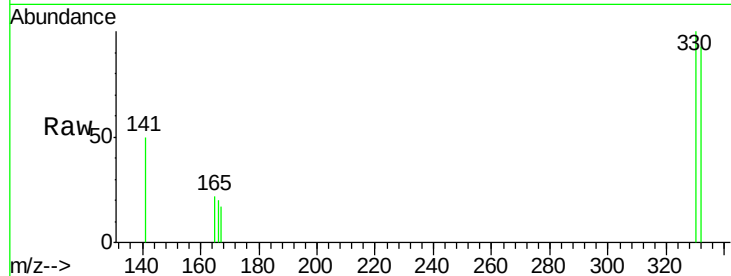




#13  
 2,4,6-Tribromophenol  
 Concen: 0.95 ng  
 RT: 16.28 min Scan# 1086  
 Delta R.T. -0.01 min  
 Lab File: BE092710.D  
 Acq: 1 Feb 2017 11:51

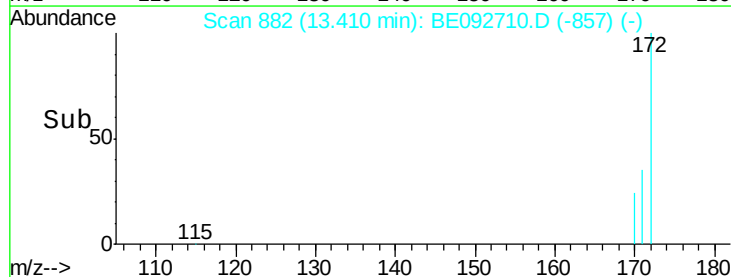
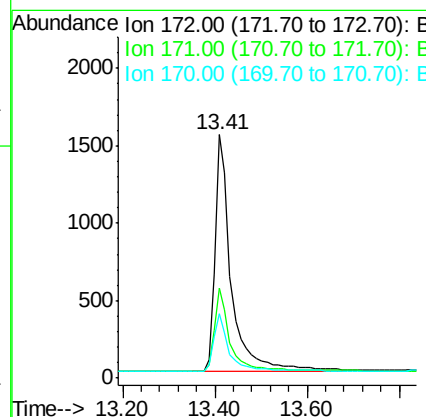
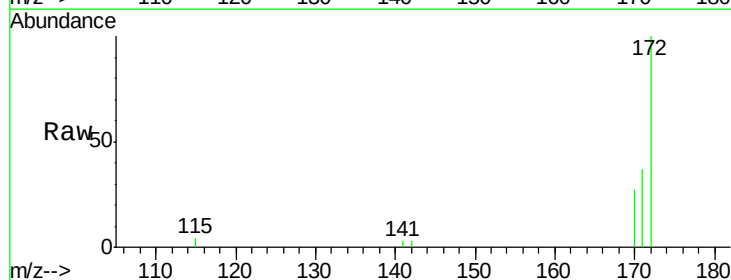
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SB-01BDL

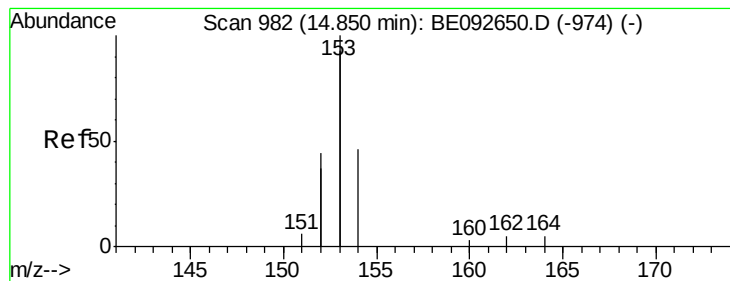
Tgt Ion: 330 Resp: 717  
 Ion Ratio Lower Upper  
 330 100  
 332 96.5 75.4 113.0  
 141 42.3 31.0 46.6



#14  
 2-Fluorobiphenyl  
 Concen: 0.53 ng  
 RT: 13.41 min Scan# 882  
 Delta R.T. -0.01 min  
 Lab File: BE092710.D  
 Acq: 1 Feb 2017 11:51

Tgt Ion: 172 Resp: 3767  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 30.1 45.1  
 170 26.7 21.8 32.6





#16

Acenaphthene

Concen: 0.46 ng

RT: 14.85 min Scan# 982

Delta R.T. -0.00 min

Lab File: BE092710.D

Acq: 1 Feb 2017 11:51

Instrument :

BNA\_E

ClientSampleId :

SB-01BDL

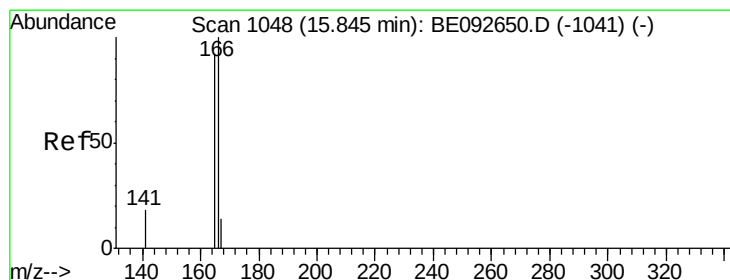
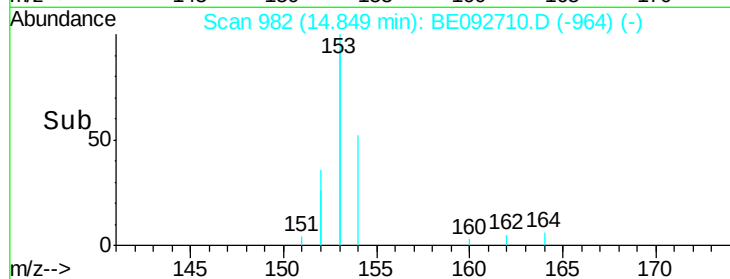
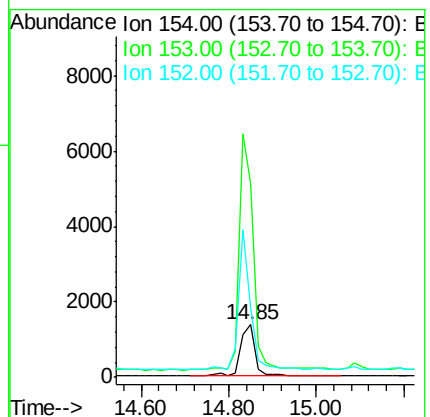
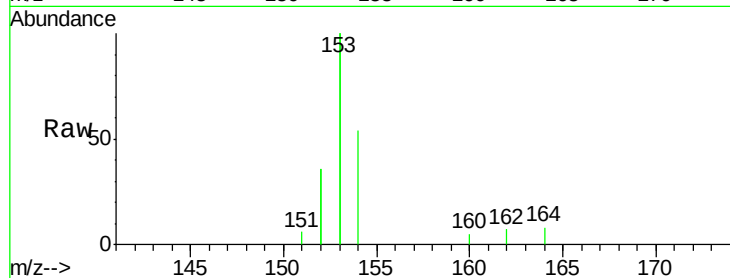
Tgt Ion:154 Resp: 2974

Ion Ratio Lower Upper

154 100

153 450.9 350.8 526.2

152 224.3 171.1 256.7



#17

Fluorene

Concen: 0.24 ng

RT: 15.84 min Scan# 1048

Delta R.T. -0.00 min

Lab File: BE092710.D

Acq: 1 Feb 2017 11:51

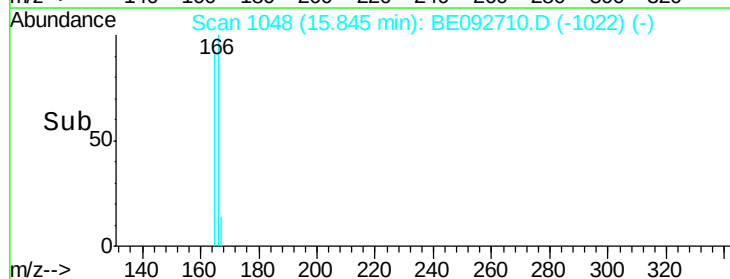
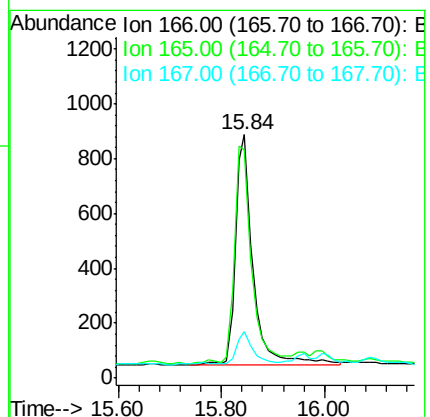
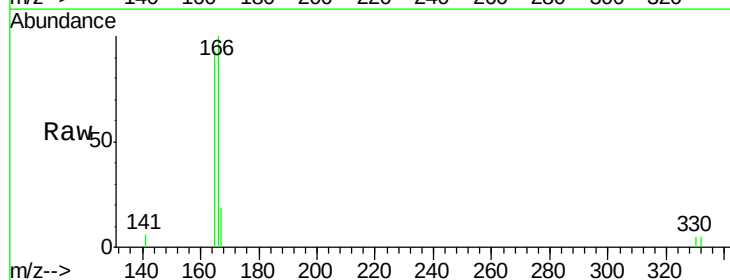
Tgt Ion:166 Resp: 1959

Ion Ratio Lower Upper

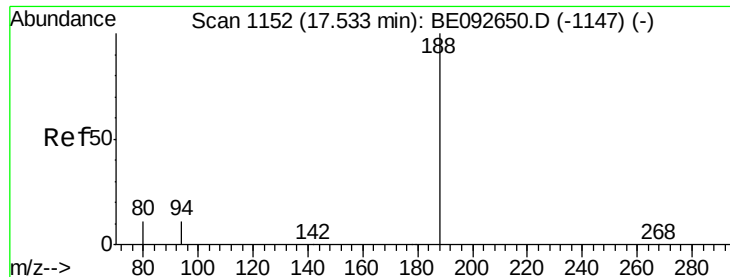
166 100

165 94.2 78.2 117.4

167 12.5 11.0 16.4



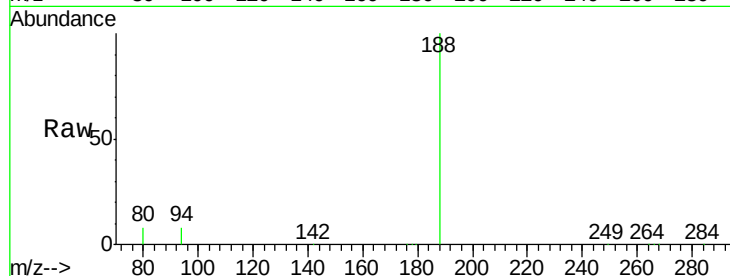




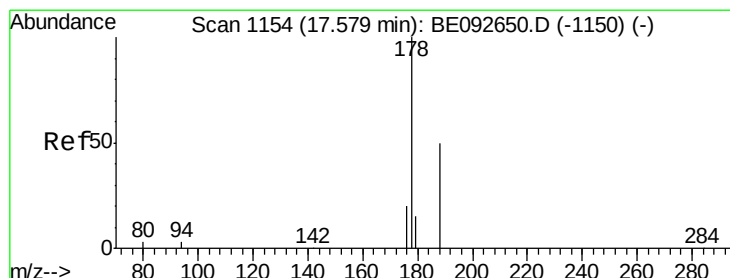
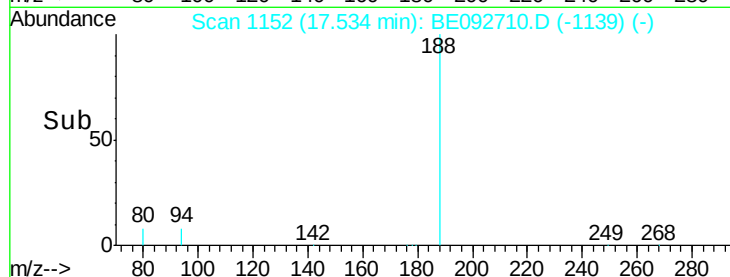
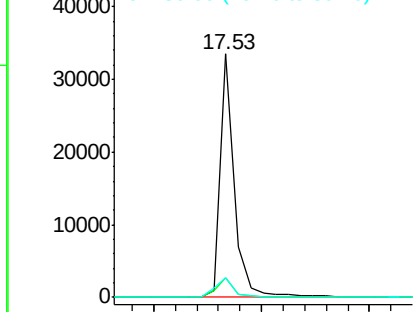
#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.53 min Scan# 1152  
Delta R.T. 0.00 min  
Lab File: BE092710.D  
Acq: 1 Feb 2017 11:51

Instrument :  
BNA\_E  
ClientSampleId :  
SB-01BDL

Tgt Ion:188 Resp: 61527  
Ion Ratio Lower Upper  
188 100  
94 8.3 3.2 4.8#  
80 7.9 2.6 3.8#

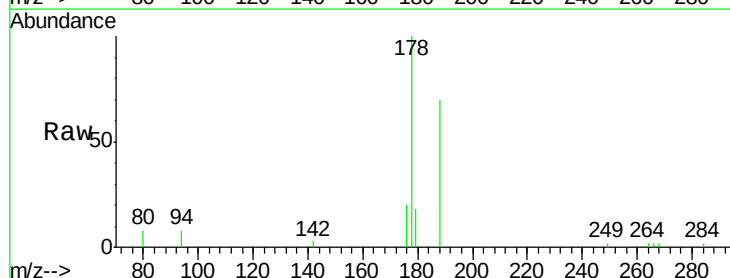


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BE0  
Ion 80.00 (79.70 to 80.70): BE0

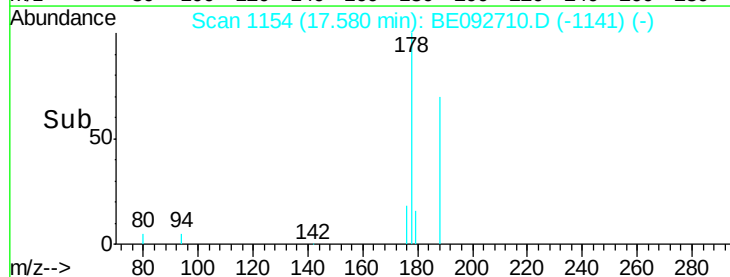
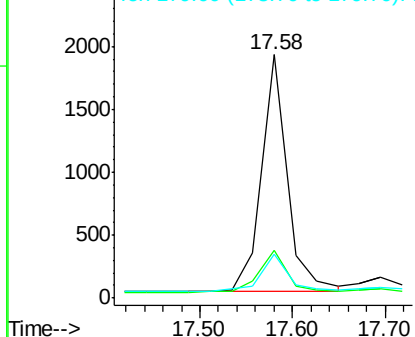


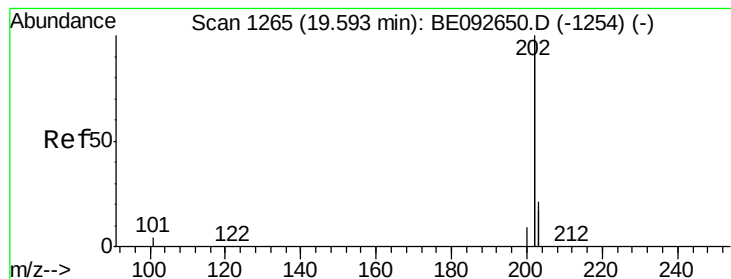
#21  
Phenanthrene  
Concen: 0.27 ng  
RT: 17.58 min Scan# 1154  
Delta R.T. 0.00 min  
Lab File: BE092710.D  
Acq: 1 Feb 2017 11:51

Tgt Ion:178 Resp: 3605  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.8 23.8  
179 17.2 16.0 24.0



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#23

Fluoranthene

Concen: 0.04 ng

RT: 19.59 min Scan# 1265

Delta R.T. 0.00 min

Lab File: BE092710.D

Acq: 1 Feb 2017 11:51

Instrument :

BNA\_E

ClientSampleId :

SB-01BDL

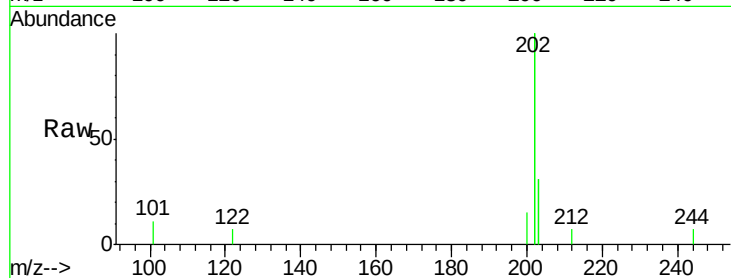
Tgt Ion: 202 Resp: 2636

Ion Ratio Lower Upper

202 100

101 2.8 2.2 3.4

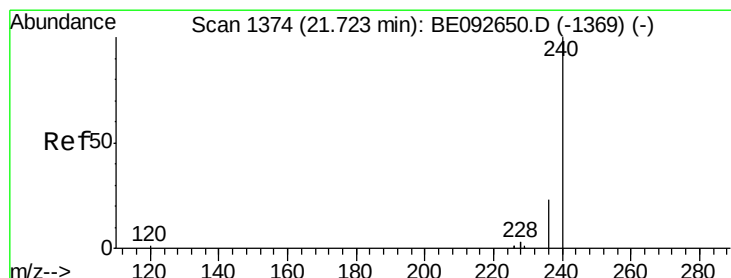
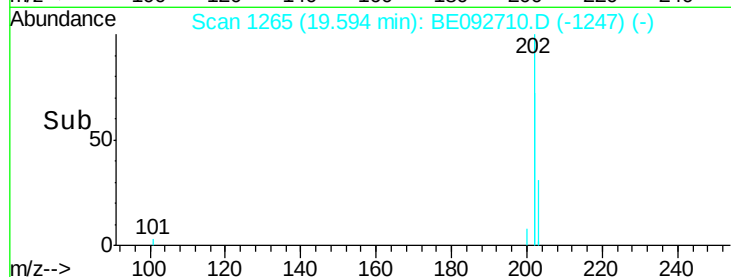
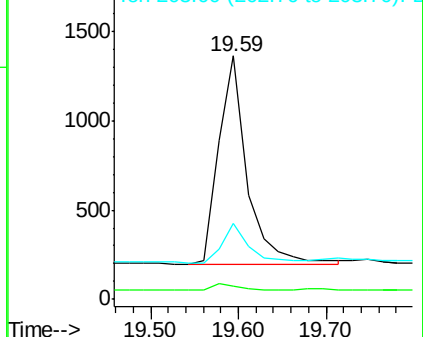
203 17.6 13.7 20.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.72 min Scan# 1374

Delta R.T. 0.00 min

Lab File: BE092710.D

Acq: 1 Feb 2017 11:51

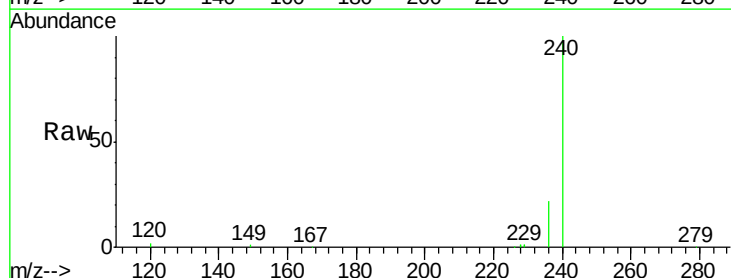
Tgt Ion: 240 Resp: 64230

Ion Ratio Lower Upper

240 100

120 1.7 2.6 4.0#

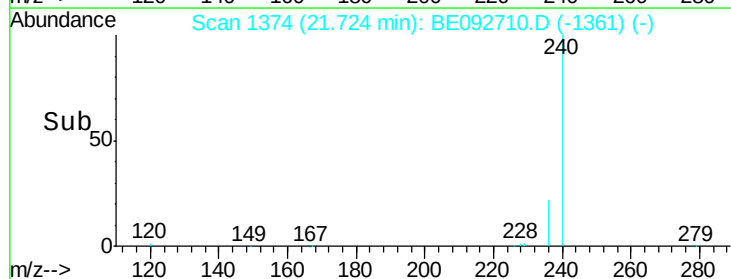
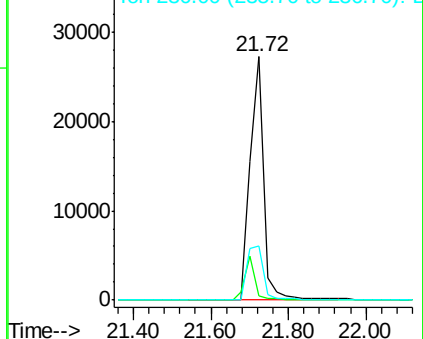
236 22.0 24.6 37.0#

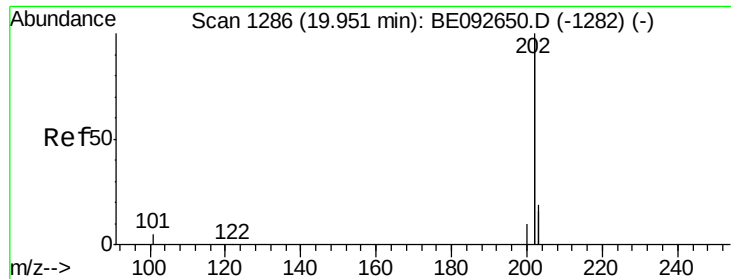


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

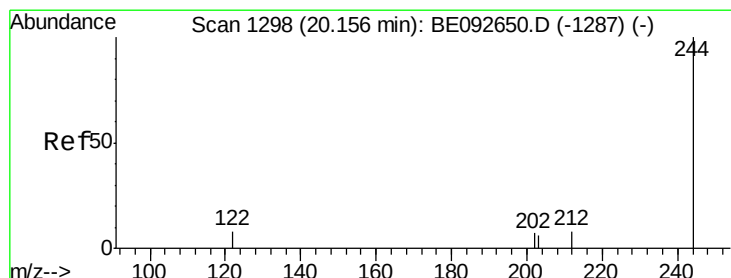
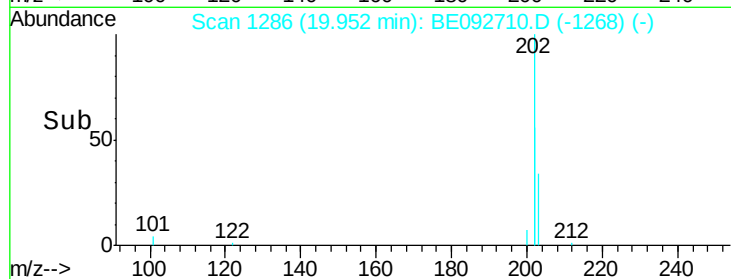
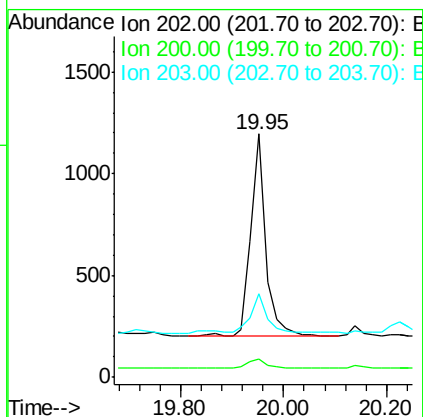
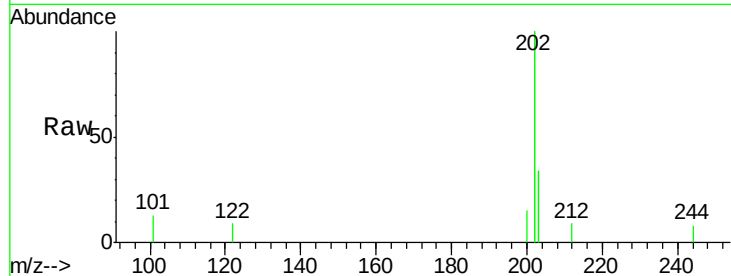




#25  
 Pyrene  
 Concen: 0.03 ng  
 RT: 19.95 min Scan# 1286  
 Delta R.T. 0.00 min  
 Lab File: BE092710.D  
 Acq: 1 Feb 2017 11:51

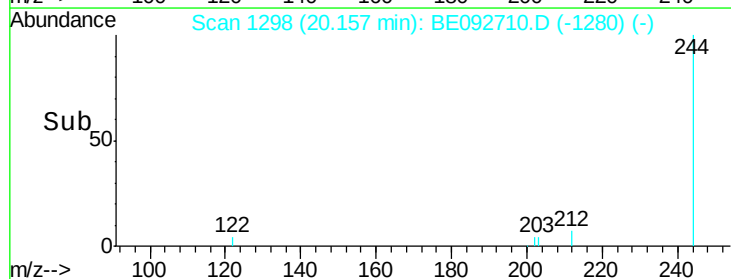
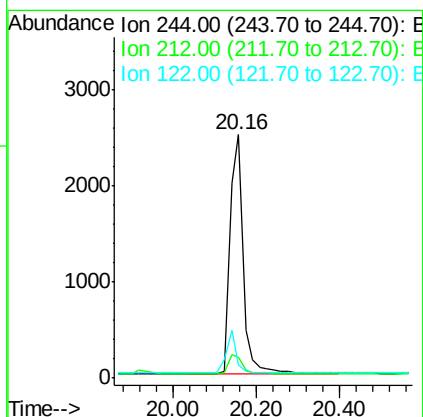
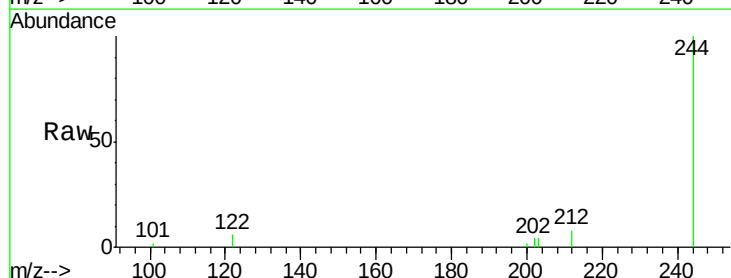
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SB-01BDL

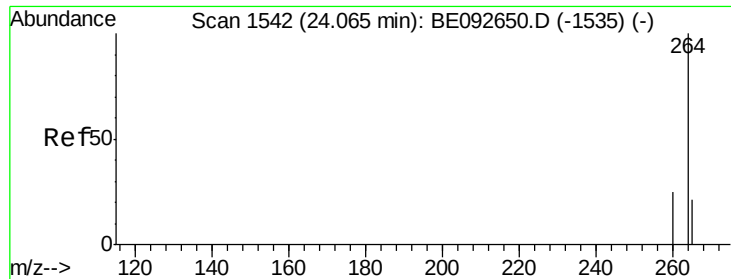
Tgt Ion: 202 Resp: 1992  
 Ion Ratio Lower Upper  
 202 100  
 200 5.0 4.2 6.4  
 203 20.6 13.9 20.9



#26  
 Terphenyl-d14  
 Concen: 0.61 ng  
 RT: 20.16 min Scan# 1298  
 Delta R.T. 0.00 min  
 Lab File: BE092710.D  
 Acq: 1 Feb 2017 11:51

Tgt Ion: 244 Resp: 5497  
 Ion Ratio Lower Upper  
 244 100  
 212 8.4 6.7 10.1  
 122 5.6 3.6 5.4#





#31

Perylene-d12

Concen: 5.00 ng

RT: 24.06 min Scan# 1542

Delta R.T. -0.00 min

Lab File: BE092710.D

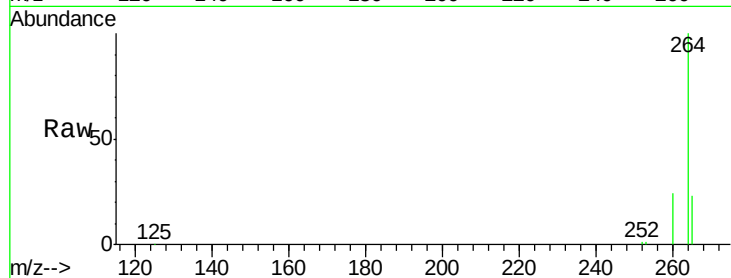
Acq: 1 Feb 2017 11:51

Instrument :

BNA\_E

ClientSampleId :

SB-01BDL



Tgt Ion: 264 Resp: 72859

Ion Ratio Lower Upper

264 100

260 24.0 20.1 30.1

265 22.8 17.9 26.9

