

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092115\  
 Data File : BE090918.D  
 Acq On : 21 Sep 2015 14:59  
 Operator : UM/IZ  
 Sample : PB856661BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB856661BL

Quant Time: Sep 21 15:57:45 2015  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE091815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 18 18:17:34 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.55  | 152  | 27993    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.31 | 136  | 113150   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.17 | 164  | 61002    | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.91 | 188  | 152776   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.07 | 240  | 202715   | 5.00 | ng    | 0.00     |
| 33) Perylene-d12          | 23.36 | 264  | 183289   | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.18  | 112  | 47006    | 7.49 | ng    | 0.00     |
| 5) Phenol-d6                | 6.74  | 99   | 56939    | 6.52 | ng    | -0.01    |
| 8) Nitrobenzene-d5          | 8.72  | 82   | 26933    | 3.45 | ng    | 0.01     |
| 14) 2,4,6-Tribromophenol    | 15.69 | 330  | 10656    | 4.95 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.81 | 172  | 62250    | 3.60 | ng    | 0.02     |
| 28) Terphenyl-d14           | 19.53 | 244  | 109022   | 4.75 | ng    | 0.00     |

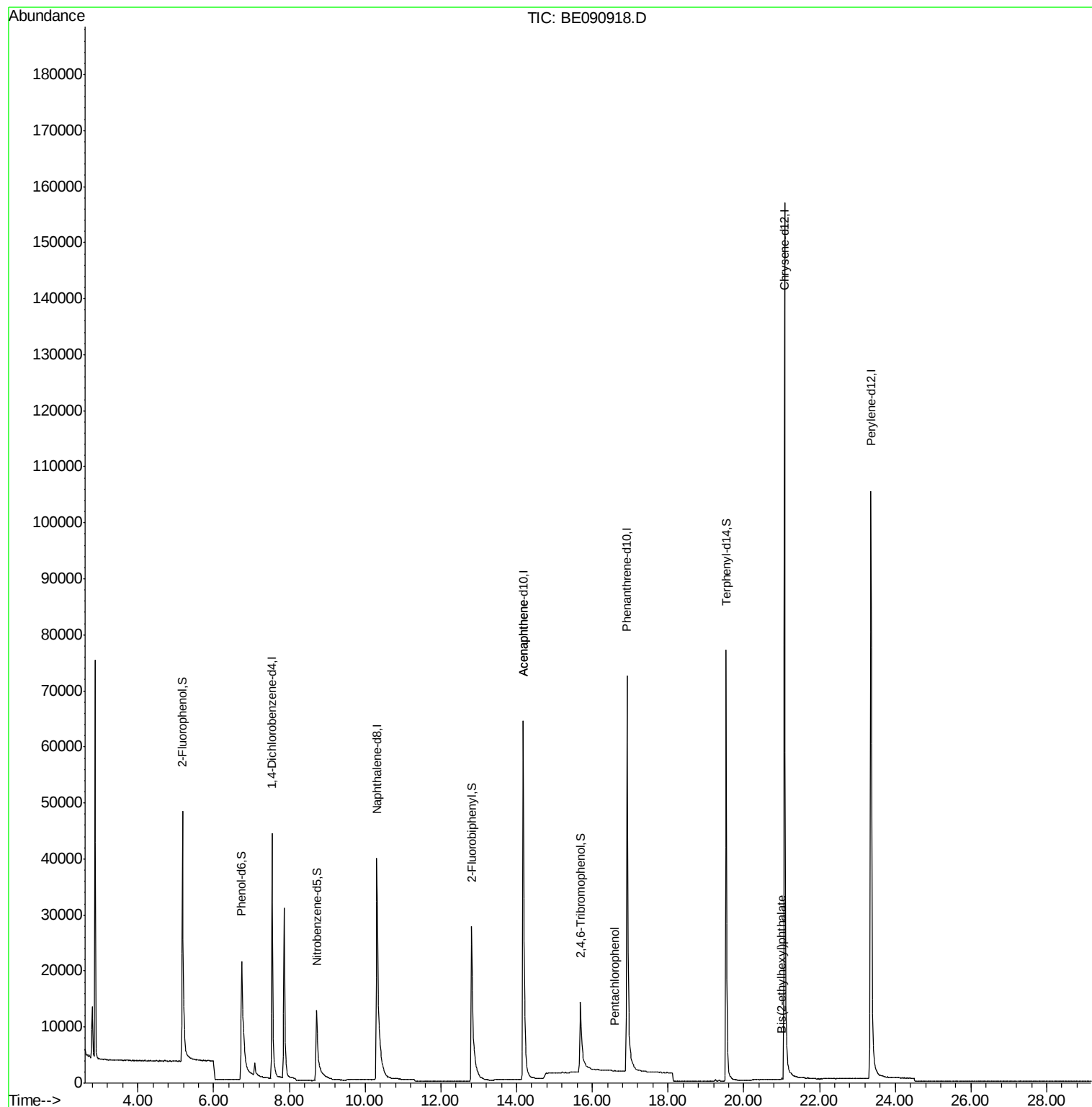
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.25  | 88   | 62       | Below Cal | #     | 6      |
| 3) n-Nitrosodimethylamine      | 3.45  | 42   | 22       | Below Cal | #     | 1      |
| 6) bis(2-Chloroethyl)ether     | 6.99  | 93   | 7        | Below Cal | #     | 16     |
| 10) Naphthalene                | 10.35 | 128  | 50       | Below Cal | #     | 1      |
| 11) Hexachlorobutadiene        | 10.66 | 225  | 8        | Below Cal | #     | 1      |
| 17) Acenaphthene               | 14.17 | 154  | 362      | 0.02 ng   | #     | 1      |
| 18) Fluorene                   | 15.19 | 166  | 20       | Below Cal | #     | 1      |
| 21) Hexachlorobenzene          | 16.23 | 284  | 49       | Below Cal | #     | 8      |
| 22) Pentachlorophenol          | 16.60 | 266  | 4        | 0.18 ng   | #     | 59     |
| 23) Phenanthrene               | 16.96 | 178  | 173      | Below Cal | #     | 63     |
| 30) Chrysene                   | 21.07 | 228  | 608      | Below Cal | #     | 80     |
| 31) Bis(2-ethylhexyl)phthalate | 21.01 | 149  | 318      | 0.18 ng   | #     | 95     |

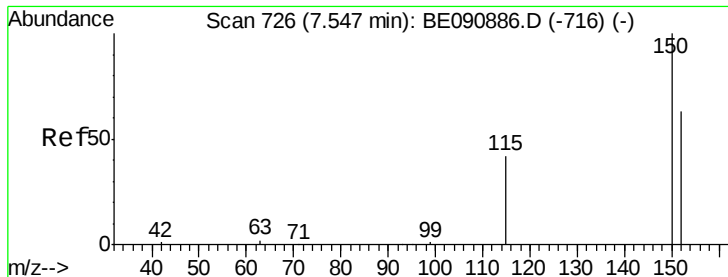
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 18 18:17:34 2015  
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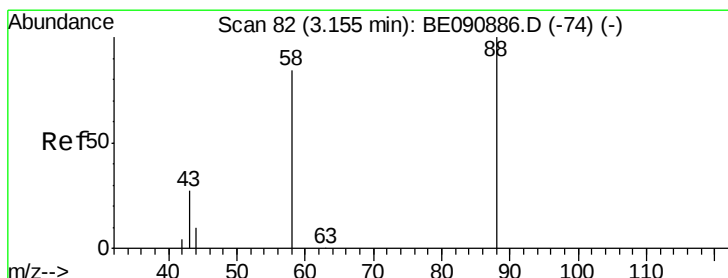
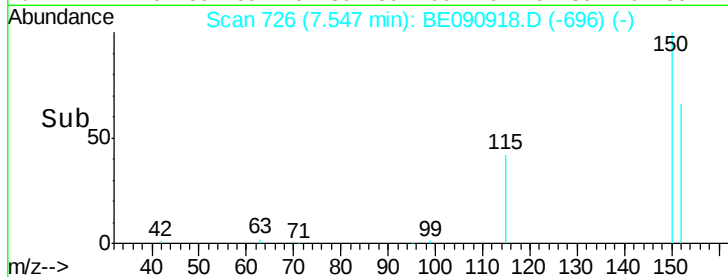
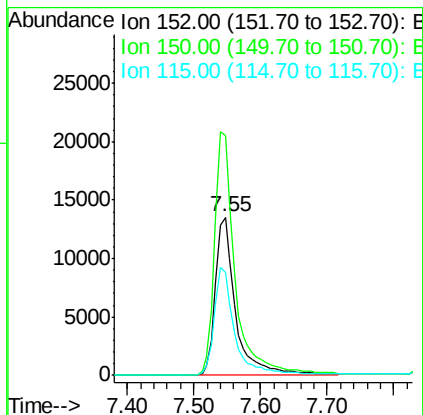
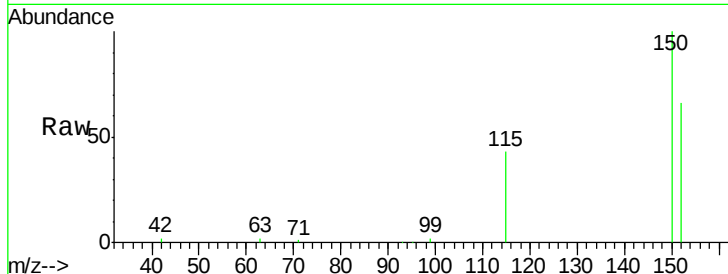


#1

1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 7.55 min Scan# 726  
Delta R.T. 0.00 min  
Lab File: BE090918.D  
Acq: 21 Sep 2015 14:59

Instrument :  
BNA\_E  
ClientSampled :  
PB85661BL

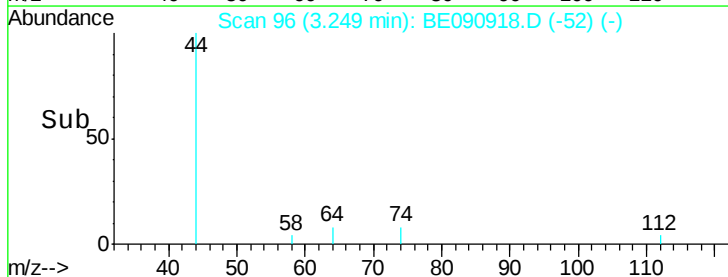
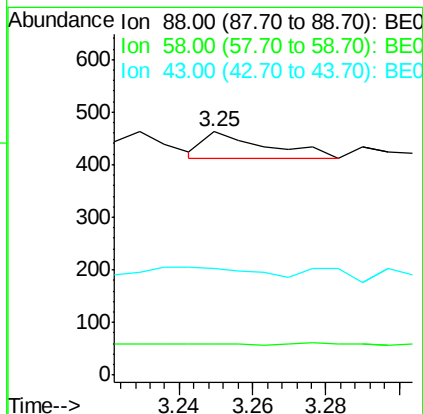
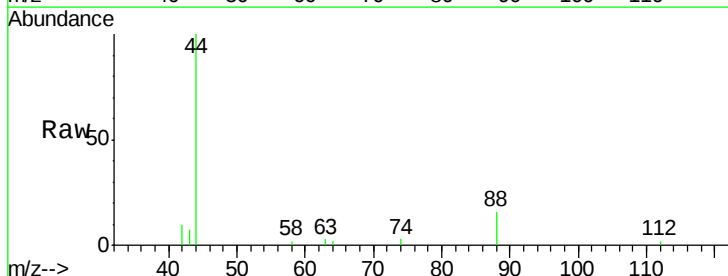
Tot Ion:152 Resp: 27993  
Ion Ratio Lower Upper  
152 100  
150 151.5 122.2 183.4  
115 64.6 51.0 76.4

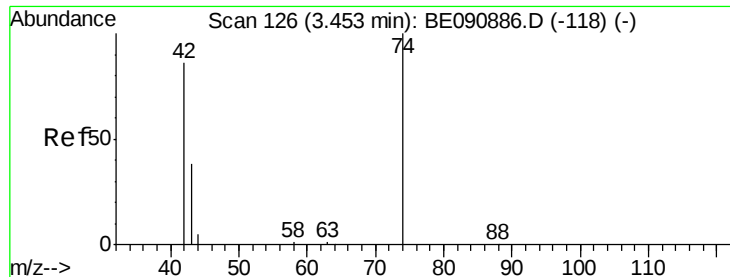


#2

1,4-Dioxane  
Concen: Below Cal  
RT: 3.25 min Scan# 96  
Delta R.T. 0.10 min  
Lab File: BE090918.D  
Acq: 21 Sep 2015 14:59

Tgt Ion: 88 Resp: 62  
Ion Ratio Lower Upper  
88 100  
58 0.0 68.4 102.6#  
43 88.7 26.9 40.3#



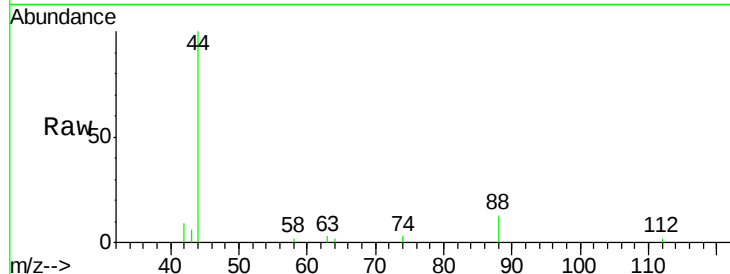


#3

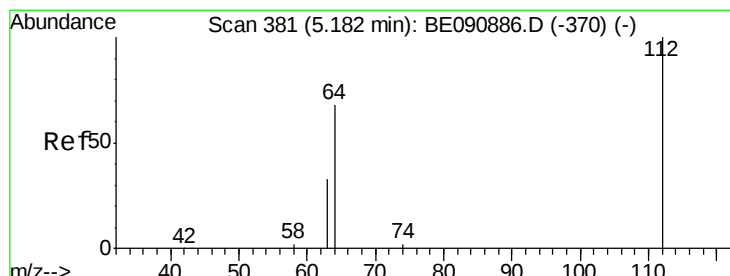
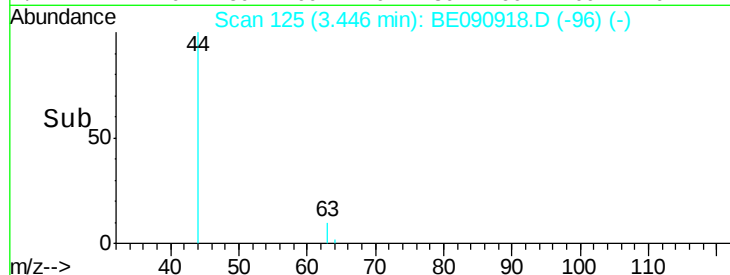
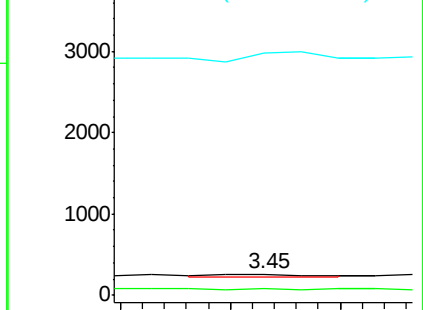
n-Nitrosodimethylamine  
 Concen: Below Cal  
 RT: 3.45 min Scan# 125  
 Delta R.T. -0.01 min  
 Lab File: BE090918.D  
 Acq: 21 Sep 2015 14:59

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB85661BL

Tot Ion: 42 Resp: 22  
 Ion Ratio Lower Upper  
 42 100  
 74 0.0 83.7 125.5#  
 44 618.2 10.0 15.0#



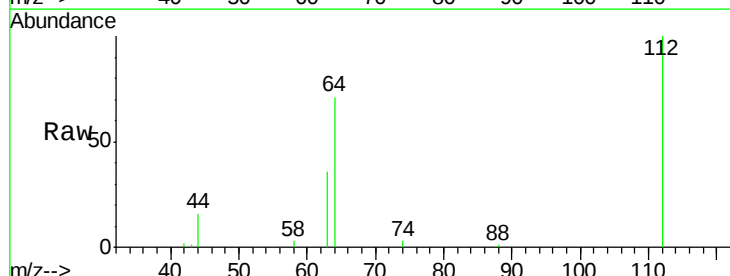
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



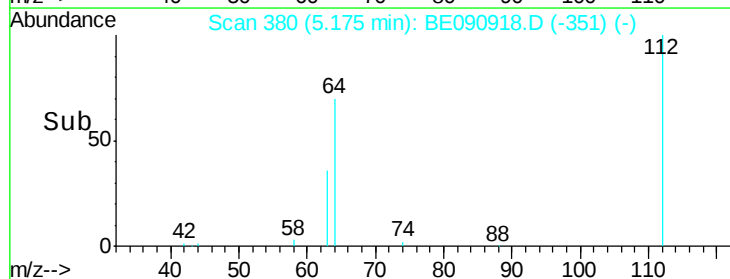
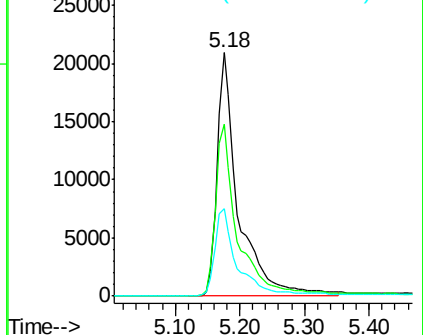
#4

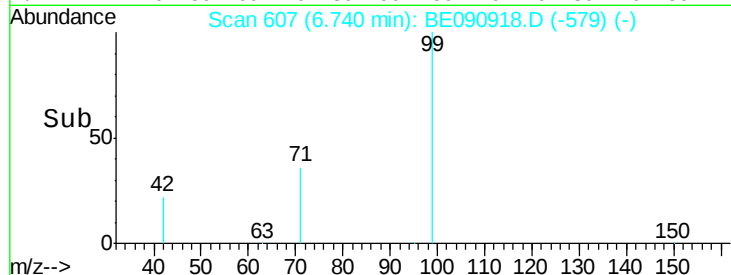
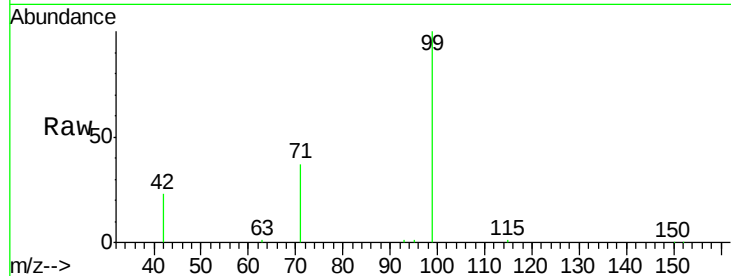
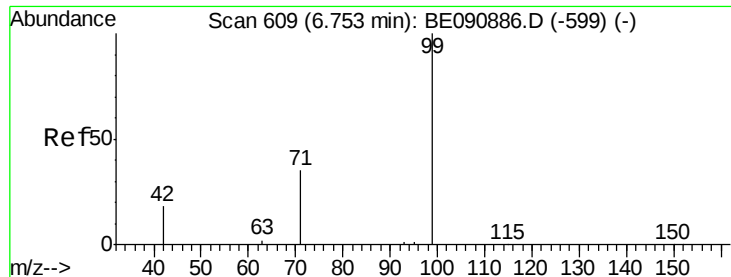
2-Fluorophenol  
 Concen: 7.49 ng  
 RT: 5.18 min Scan# 380  
 Delta R.T. -0.01 min  
 Lab File: BE090918.D  
 Acq: 21 Sep 2015 14:59

Tgt Ion: 112 Resp: 47006  
 Ion Ratio Lower Upper  
 112 100  
 64 72.3 57.3 85.9  
 63 37.4 29.2 43.8



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: 6.52 ng

RT: 6.74 min Scan# 607

Delta R.T. -0.01 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

Instrument :

BNA\_E

ClientSampleId :

PB85661BL

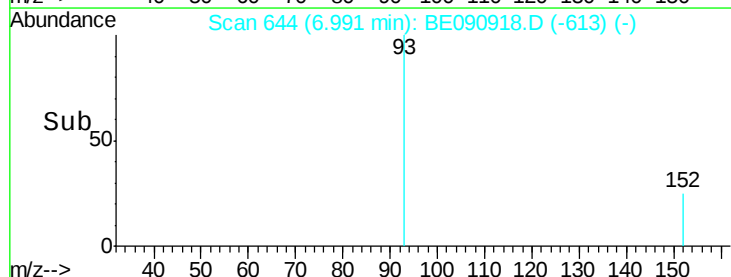
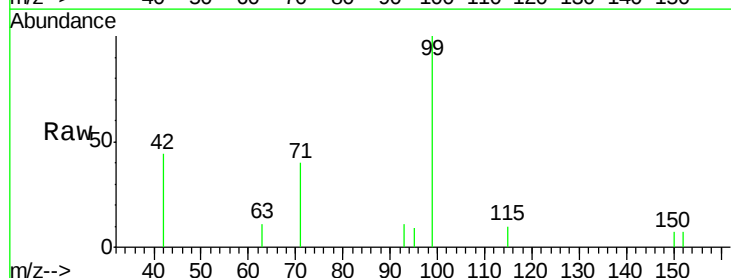
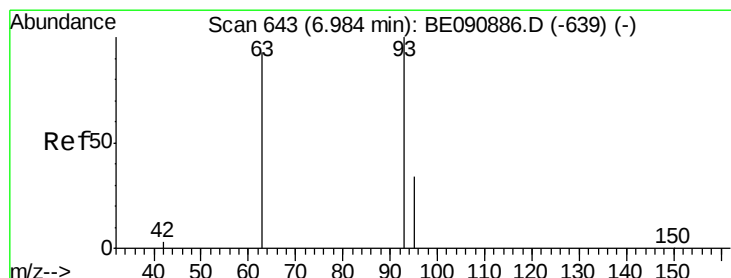
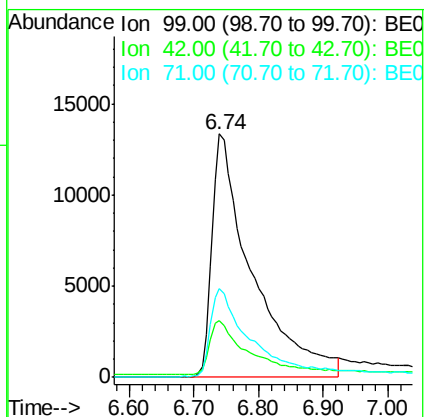
Tot Ion: 99 Resp: 56939

Ion Ratio Lower Upper

99 100

42 22.3 16.8 25.2

71 36.4 28.3 42.5



#6

bis(2-Chloroethyl)ether

Concen: Below Cal

RT: 6.99 min Scan# 644

Delta R.T. 0.01 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

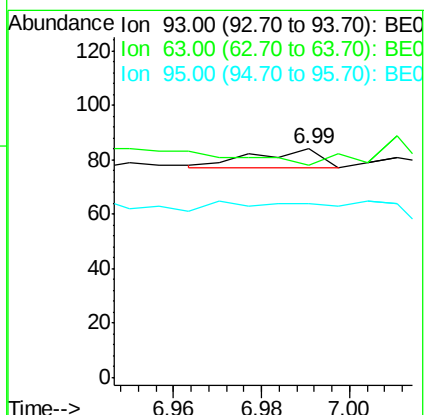
Tgt Ion: 93 Resp: 7

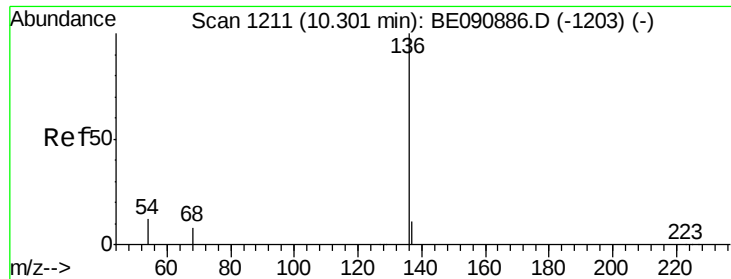
Ion Ratio Lower Upper

93 100

63 0.0 68.5 102.7#

95 0.0 26.9 40.3#





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.31 min Scan# 1212

Delta R.T. 0.01 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

Instrument :

BNA\_E

ClientSampleId :

PB85661BL

Tot Ion:136 Resp: 113150

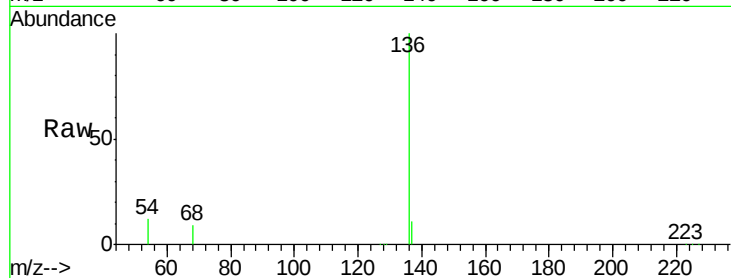
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 12.1 9.0 13.6

68 8.7 6.3 9.5

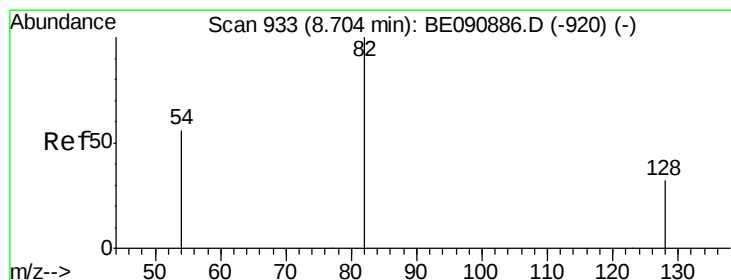
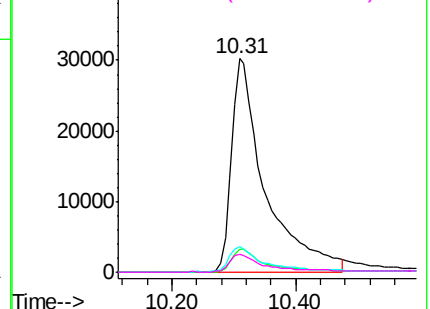
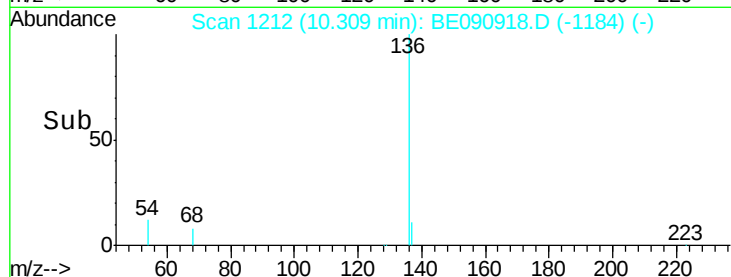


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 3.45 ng

RT: 8.72 min Scan# 936

Delta R.T. 0.01 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

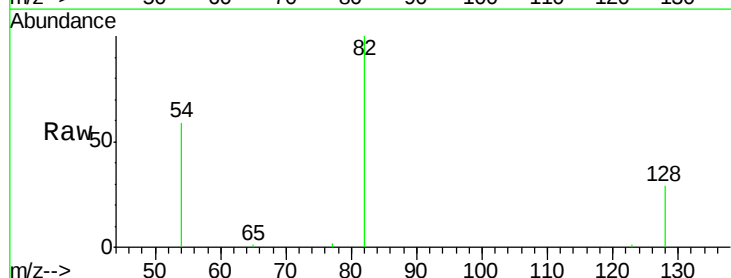
Tgt Ion: 82 Resp: 26933

Ion Ratio Lower Upper

82 100

128 29.0 25.0 37.4

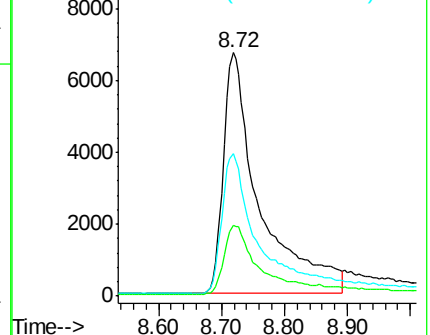
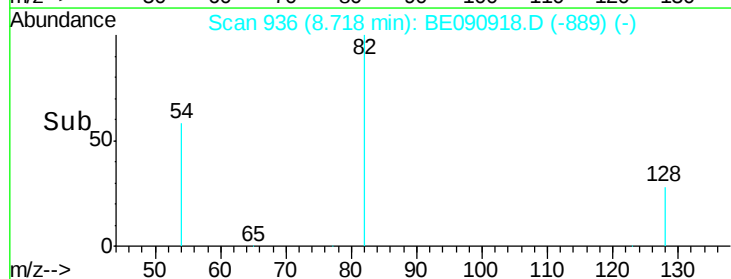
54 58.6 46.3 69.5

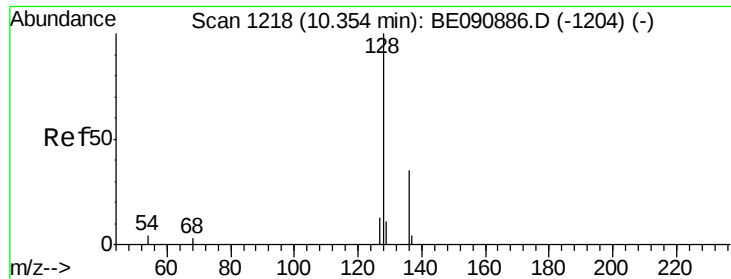


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#10

Naphthalene

Concen: Below Cal

RT: 10.35 min Scan# 1218

Delta R.T. 0.00 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

Instrument :

BNA\_E

ClientSampled :

PB85661BL

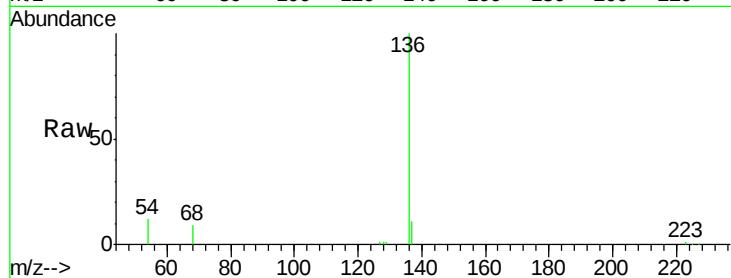
Tot Ion:128 Resp: 50

Ion Ratio Lower Upper

128 100

129 69.4 8.4 12.6#

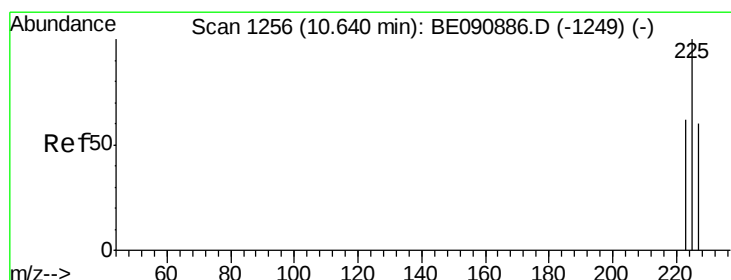
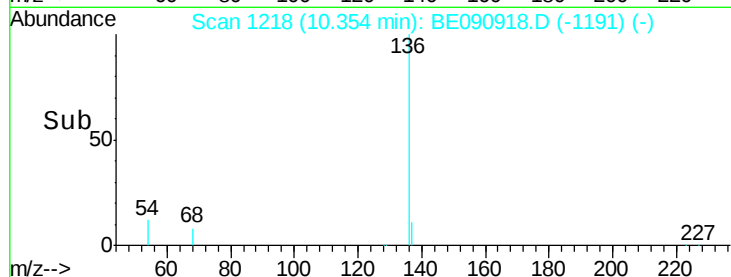
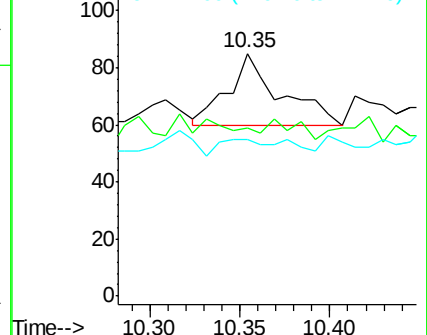
127 64.7 9.9 14.9#



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



#11

Hexachlorobutadiene

Concen: Below Cal

RT: 10.66 min Scan# 1258

Delta R.T. 0.02 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

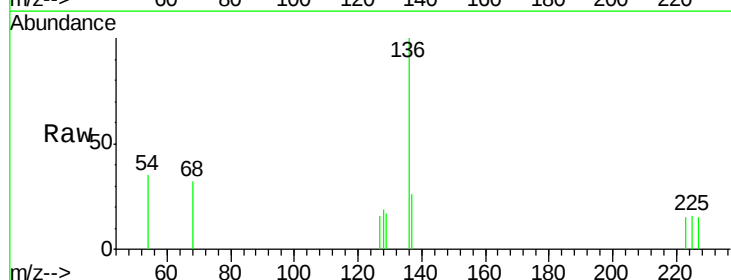
Tgt Ion:225 Resp: 8

Ion Ratio Lower Upper

225 100

223 0.0 50.6 76.0#

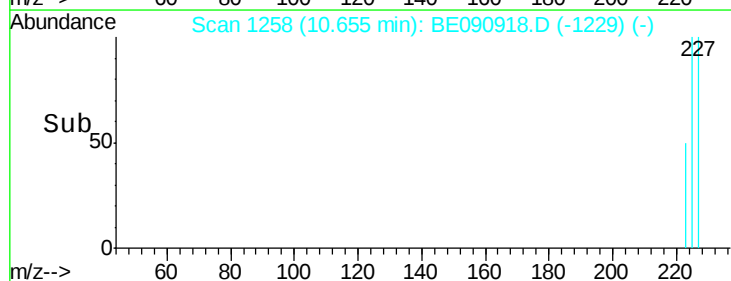
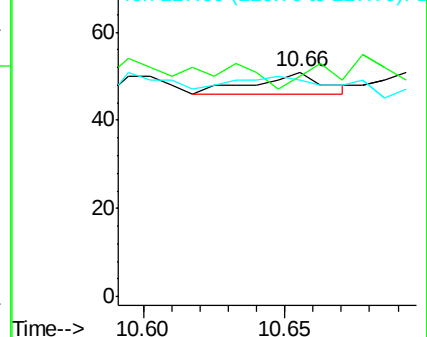
227 175.0 51.0 76.6#

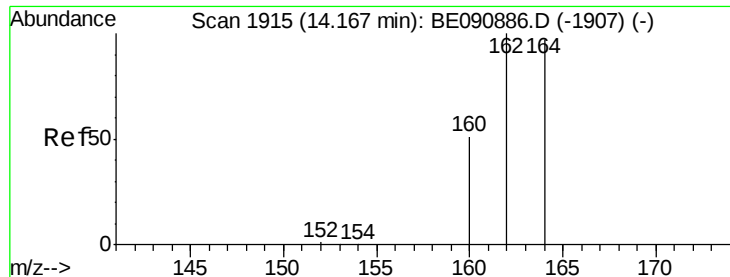


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.17 min Scan# 1916

Delta R.T. 0.01 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

Instrument :

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ClientSampleId :

PB85661BL

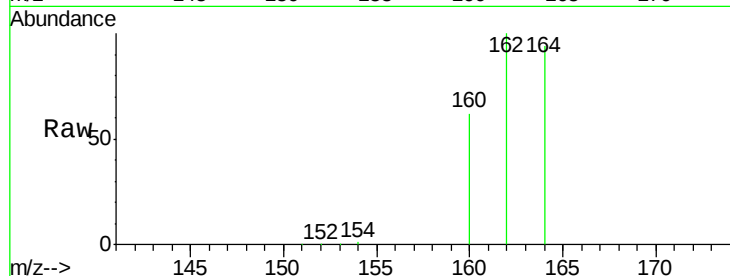
Tot Ion:164 Resp: 61002

Ion Ratio Lower Upper

164 100

162 105.9 86.8 130.2

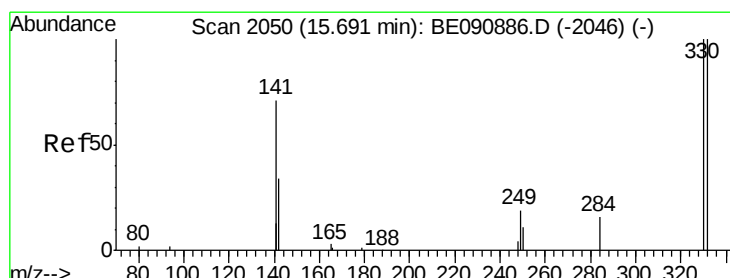
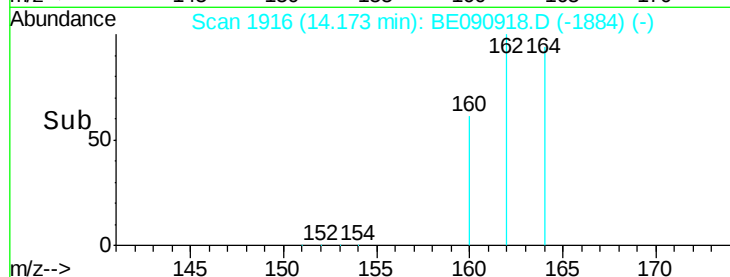
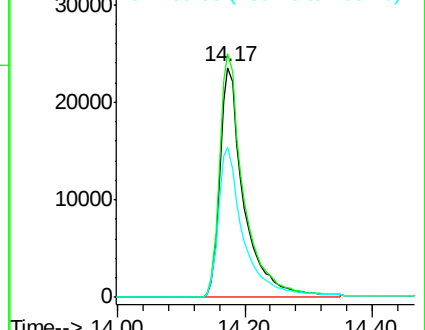
160 65.1 53.9 80.9



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



#14

2,4,6-Tribromophenol

Concen: 4.95 ng

RT: 15.69 min Scan# 2050

Delta R.T. -0.00 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

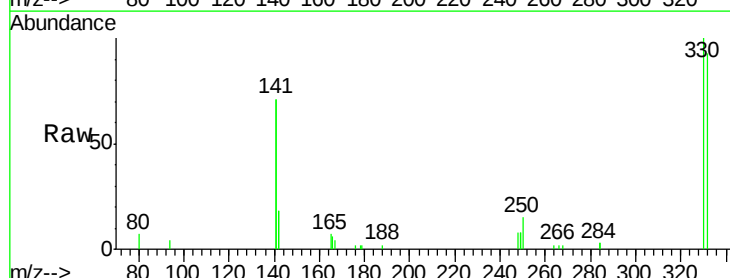
Tgt Ion:330 Resp: 10656

Ion Ratio Lower Upper

330 100

332 95.9 74.9 112.3

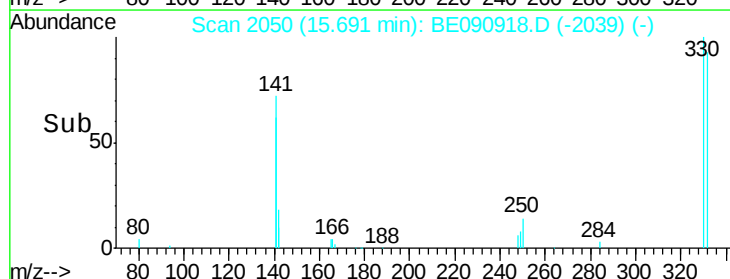
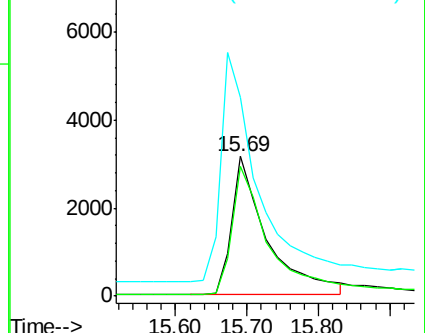
141 180.3 145.2 217.8

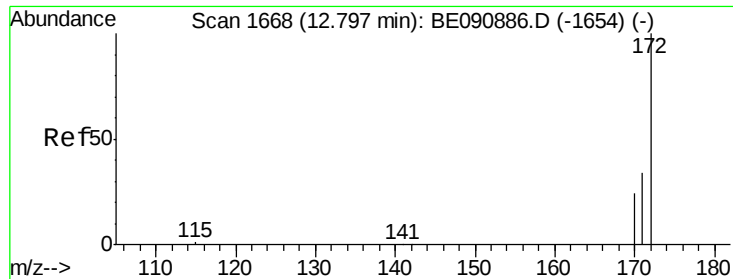


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

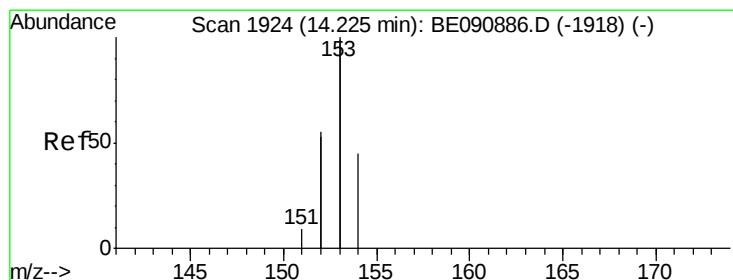
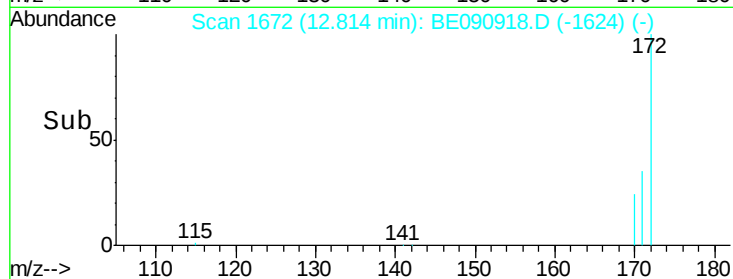
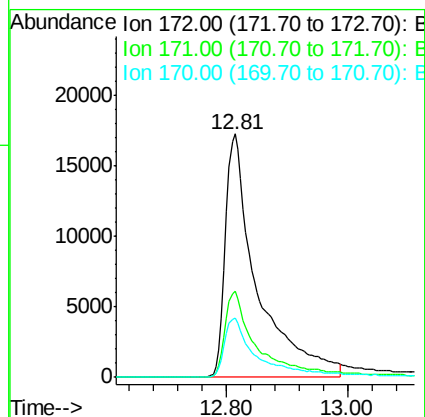
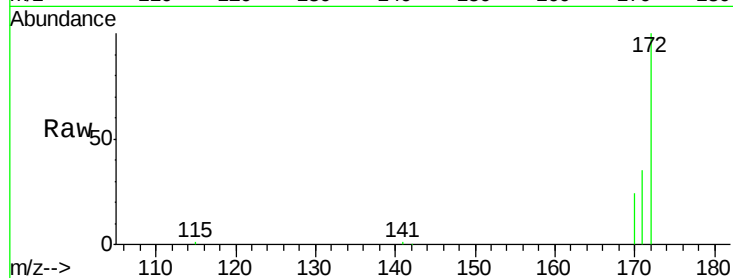




#15  
2-Fluorobiphenyl  
Concen: 3.60 ng  
RT: 12.81 min Scan# 1672  
Delta R.T. 0.02 min  
Lab File: BE090918.D  
Acq: 21 Sep 2015 14:59

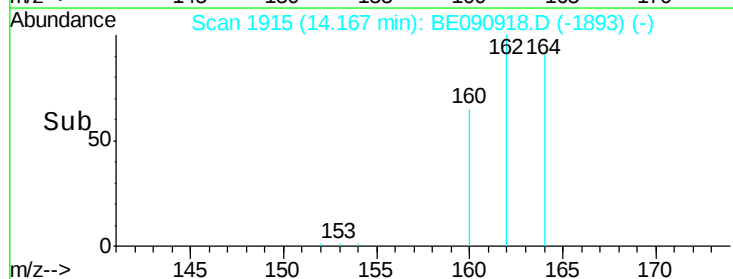
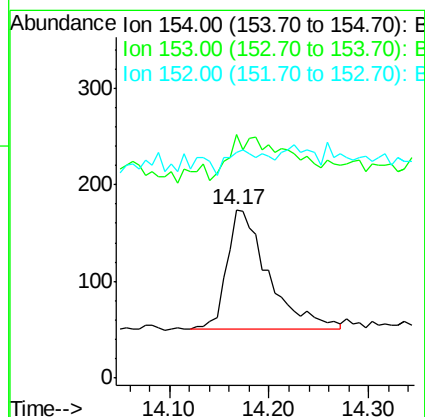
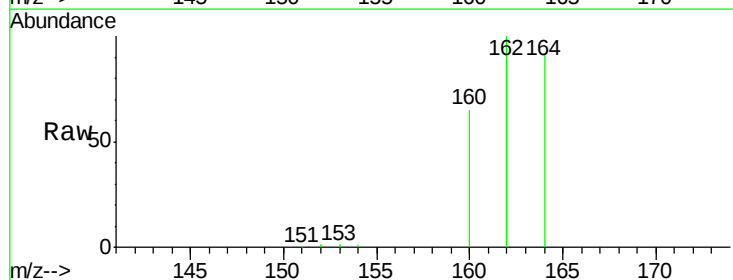
Instrument :  
BNA\_E  
ClientSampleId :  
PB85661BL

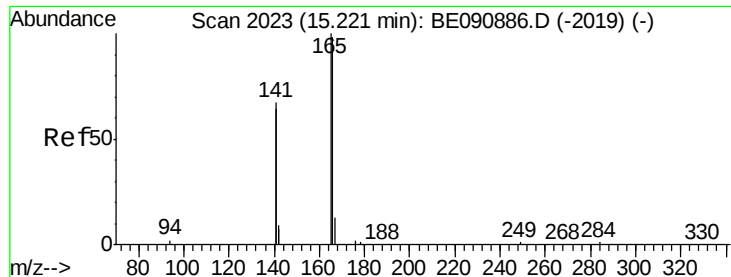
Tot Ion:172 Resp: 62250  
Ion Ratio Lower Upper  
172 100  
171 35.4 27.8 41.8  
170 24.5 19.8 29.6



#17  
Acenaphthene  
Concen: 0.02 ng  
RT: 14.17 min Scan# 1915  
Delta R.T. -0.06 min  
Lab File: BE090918.D  
Acq: 21 Sep 2015 14:59

Tgt Ion:154 Resp: 362  
Ion Ratio Lower Upper  
154 100  
153 53.6 354.5 531.7#  
152 13.5 227.8 341.6#





#18

Fluorene

Concen: Below Cal

RT: 15.19 min Scan# 2021

Delta R.T. -0.03 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

Instrument :

BNA\_E

ClientSampled :

PB85661BL

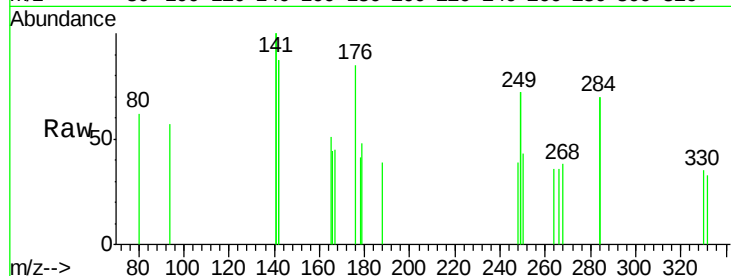
Tot Ion:166 Resp: 20

Ion Ratio Lower Upper

166 100

165 0.0 82.7 124.1#

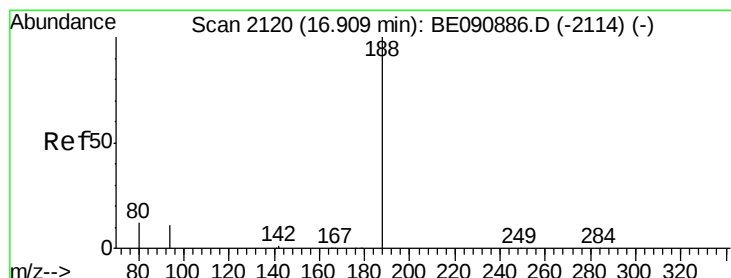
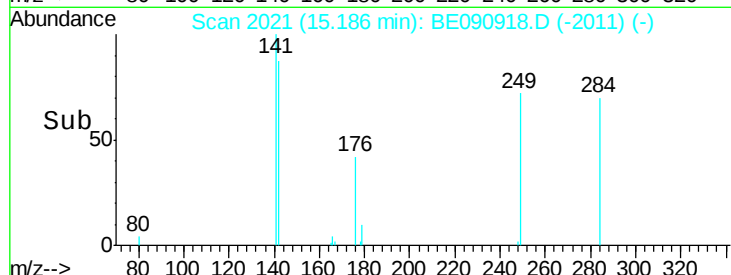
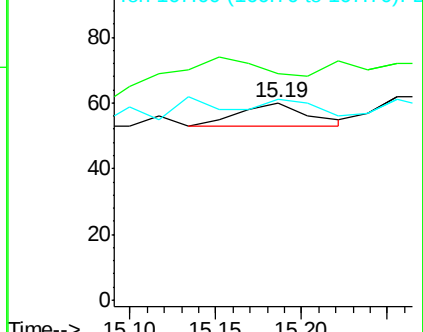
167 45.0 10.7 16.1#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.91 min Scan# 2120

Delta R.T. -0.00 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

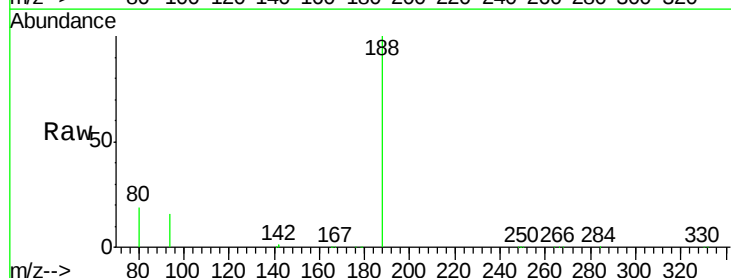
Tgt Ion:188 Resp: 152776

Ion Ratio Lower Upper

188 100

94 16.2 10.3 15.5#

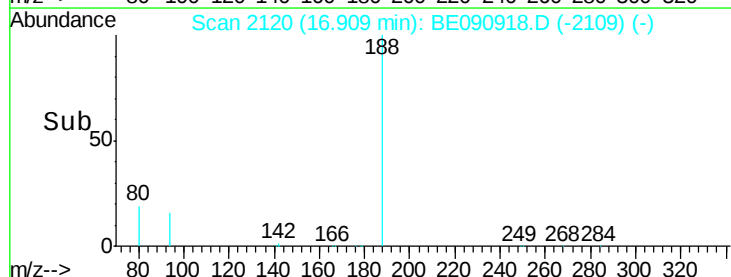
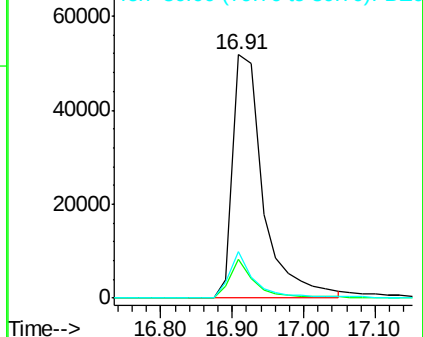
80 19.0 11.0 16.6#

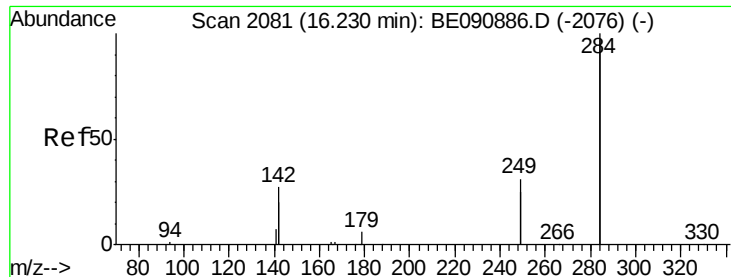


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#21

Hexachlorobenzene

Concen: Below Cal

RT: 16.23 min Scan# 2081

Delta R.T. 0.00 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

Instrument :

BNA\_E

ClientSampleId :

PB85661BL

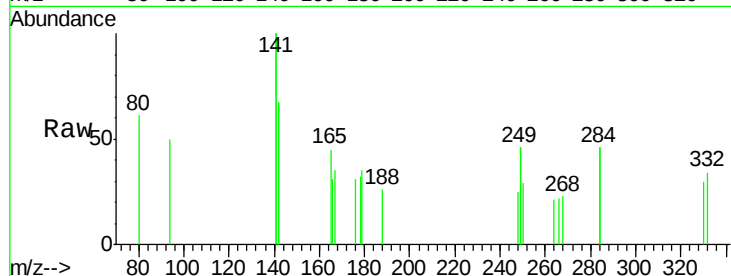
Tot Ion:284 Resp: 49

Ion Ratio Lower Upper

284 100

142 0.0 35.0 52.4#

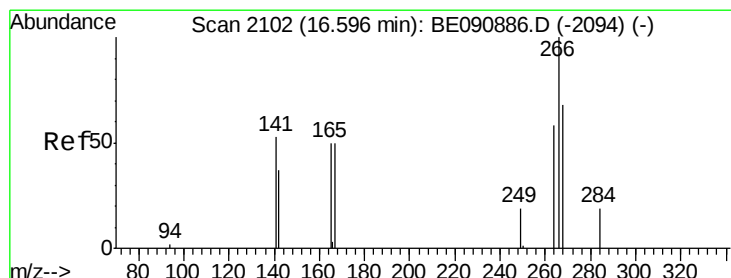
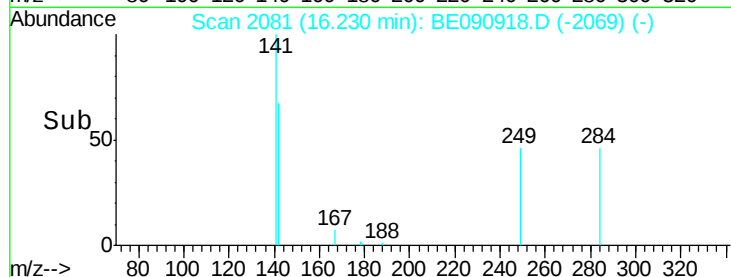
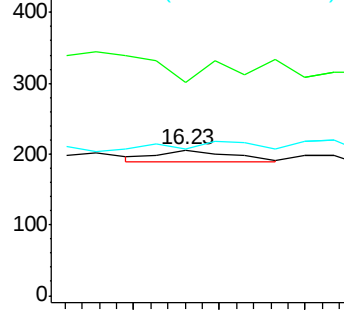
249 102.0 25.5 38.3#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.18 ng

RT: 16.60 min Scan# 2102

Delta R.T. 0.00 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

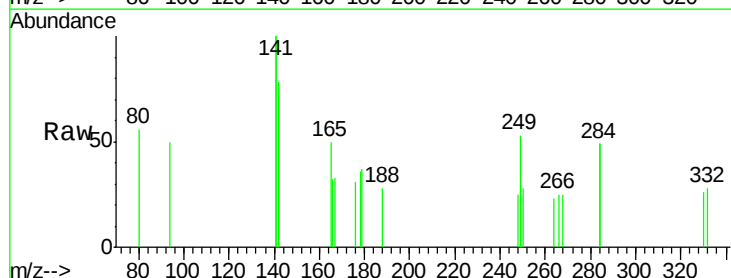
Tgt Ion:266 Resp: 4

Ion Ratio Lower Upper

266 100

268 102.0 49.6 74.4#

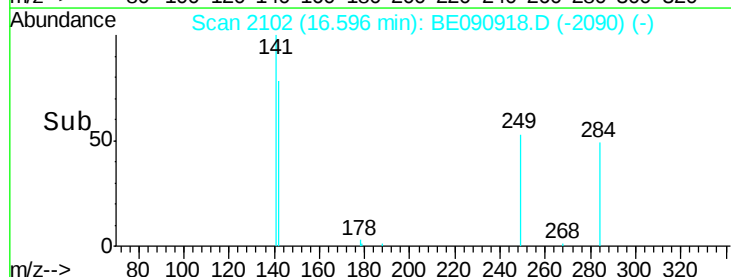
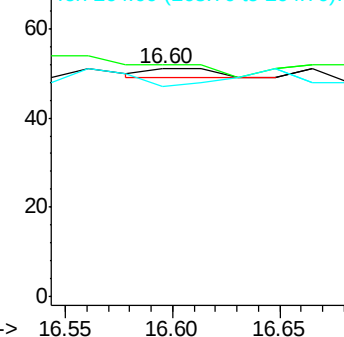
264 92.2 53.9 80.9#

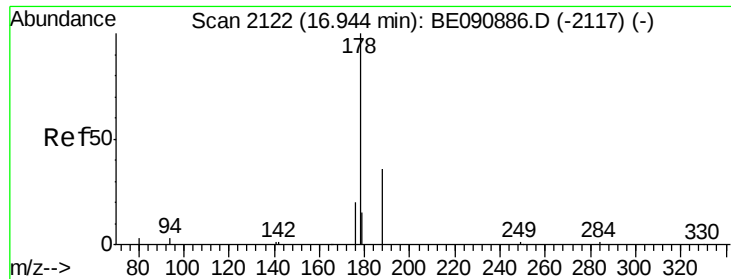


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#23

Phenanthrene

Concen: Below Cal

RT: 16.96 min Scan# 2123

Delta R.T. 0.02 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

Instrument :

BNA\_E

ClientSampleId :

PB85661BL

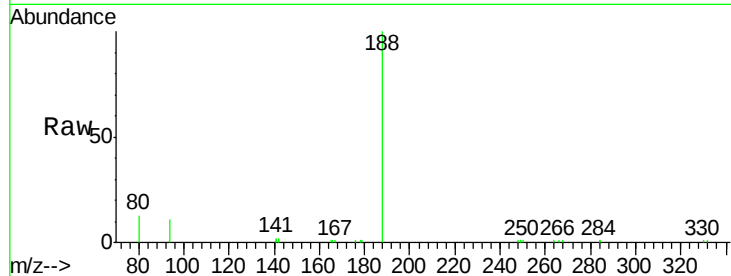
Tot Ion:178 Resp: 173

Ion Ratio Lower Upper

178 100

176 36.4 15.6 23.4#

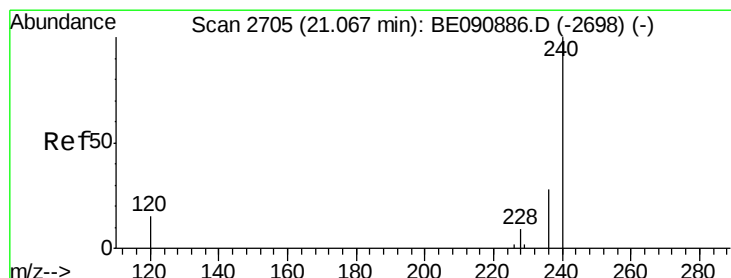
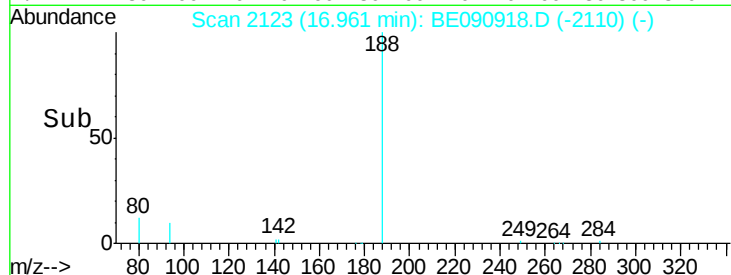
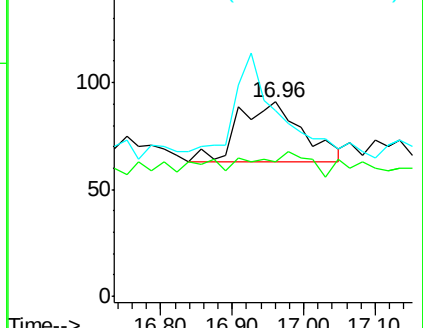
179 0.0 12.8 19.2#



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



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.07 min Scan# 2706

Delta R.T. 0.01 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

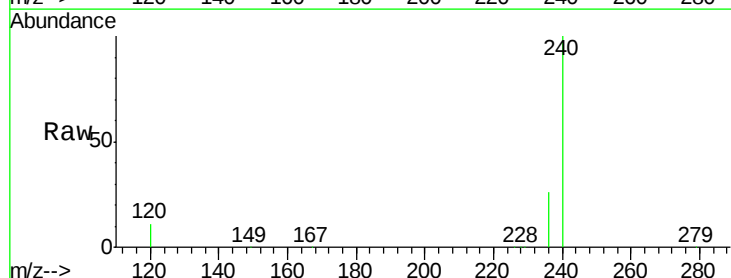
Tgt Ion:240 Resp: 202715

Ion Ratio Lower Upper

240 100

120 11.2 10.1 15.1

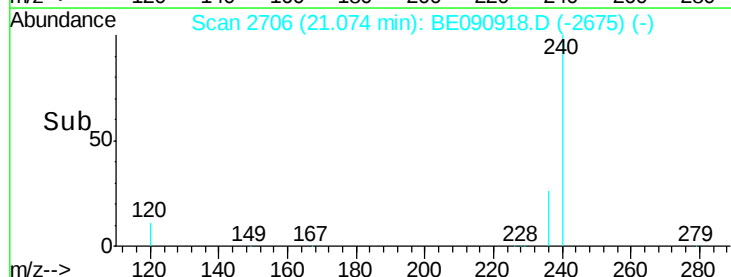
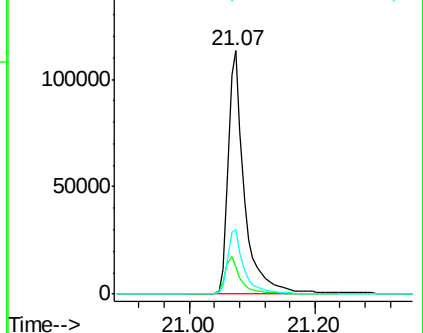
236 26.4 21.9 32.9

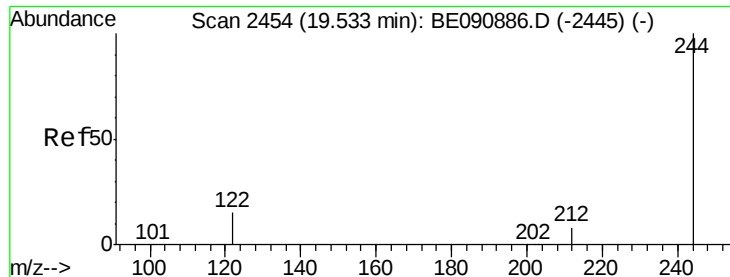


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Terphenyl-d14

Concen: 4.75 ng

RT: 19.53 min Scan# 2454

Delta R.T. 0.00 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

Instrument :

BNA\_E

ClientSampleID :

PB85661BL

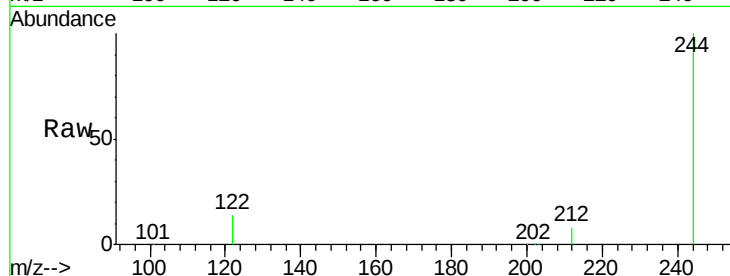
Tot Ion:244 Resp: 109022

Ion Ratio Lower Upper

244 100

212 8.2 6.9 10.3

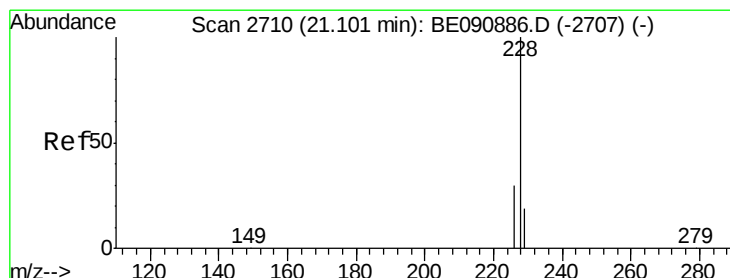
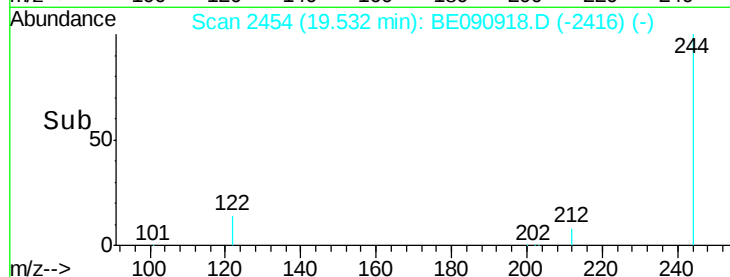
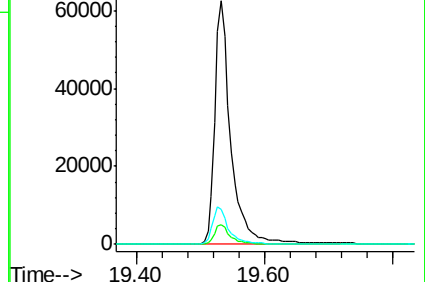
122 14.4 12.9 19.3



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



#30

Chrysene

Concen: Below Cal

RT: 21.07 min Scan# 2705

Delta R.T. -0.03 min

Lab File: BE090918.D

Acq: 21 Sep 2015 14:59

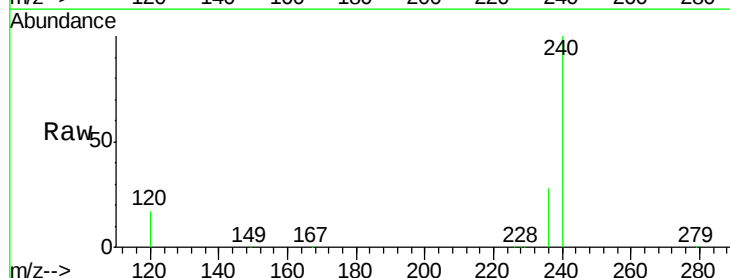
Tgt Ion:228 Resp: 608

Ion Ratio Lower Upper

228 100

226 26.3 24.2 36.4

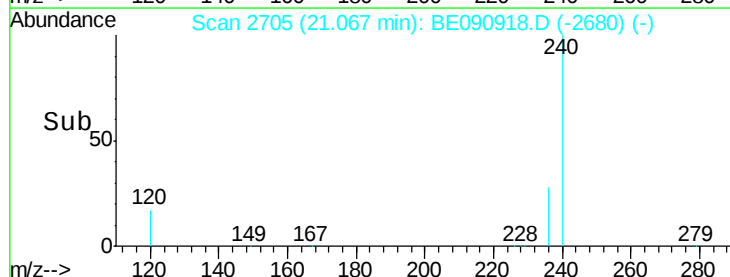
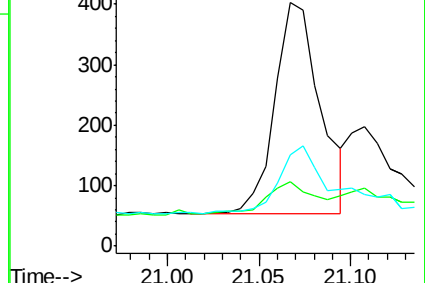
229 37.7 15.3 22.9#

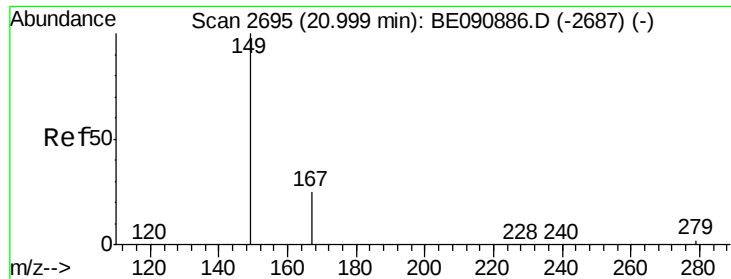


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

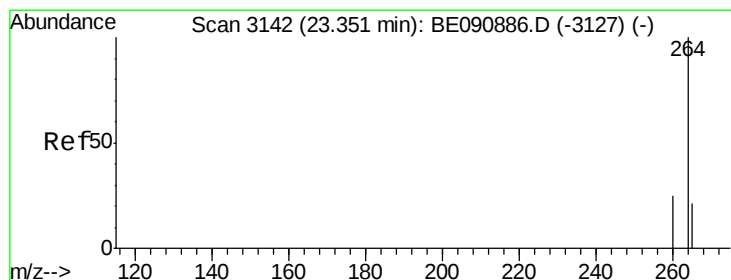
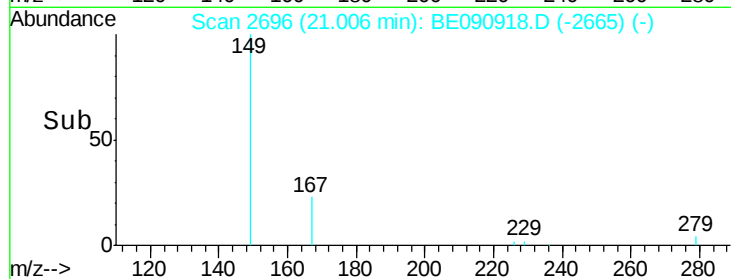
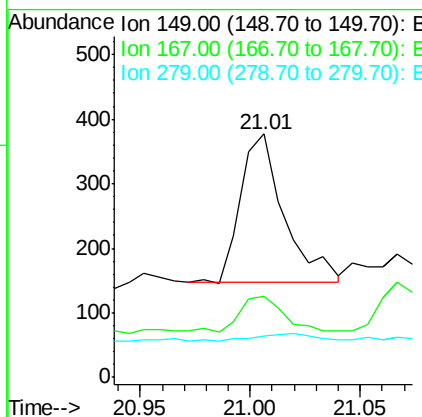
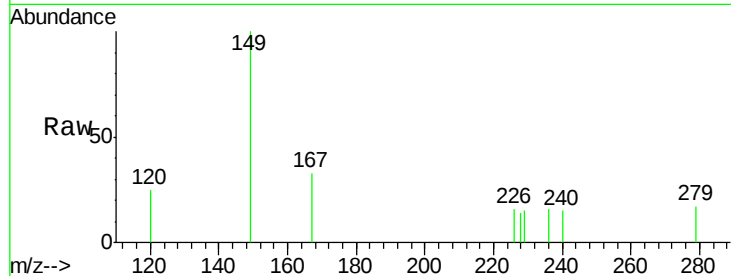




#31  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.18 ng  
 RT: 21.01 min Scan# 2696  
 Delta R.T. 0.01 min  
 Lab File: BE090918.D  
 Acq: 21 Sep 2015 14:59

Instrument :  
 BNA\_E  
 ClientSampleID :  
 PB85661BL

Tot Ion:149 Resp: 318  
 Ion Ratio Lower Upper  
 149 100  
 167 23.3 20.1 30.1  
 279 7.5 2.3 3.5#



#33  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 23.36 min Scan# 3144  
 Delta R.T. 0.01 min  
 Lab File: BE090918.D  
 Acq: 21 Sep 2015 14:59

Tgt Ion:264 Resp: 183289  
 Ion Ratio Lower Upper  
 264 100  
 260 25.0 19.7 29.5  
 265 21.7 17.5 26.3

