

Data Path : Z:\HPCHEM1\BNA\_E\Data\BE090415\  
 Data File : BE090722.D  
 Acq On : 4 Sep 2015 10:22  
 Operator : UM/IZ  
 Sample : PB85380BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB85380BL

Quant Time: Sep 04 13:14:38 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE090115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 02 11:40:50 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.55  | 152  | 41379    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.31 | 136  | 180586   | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.17 | 164  | 101280   | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 16.91 | 188  | 258030   | 5.00 | ng    | 0.00     |
| 25) Chrysene-d12          | 21.07 | 240  | 333251   | 5.00 | ng    | 0.00     |
| 32) Perylene-d12          | 23.36 | 264  | 312586   | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 4) 2-Fluorophenol           | 5.18  | 112  | 86230    | 10.68 | ng    | 0.00     |
| 5) Phenol-d6                | 6.75  | 99   | 114988   | 9.98  | ng    | 0.00     |
| 7) Nitrobenzene-d5          | 8.71  | 82   | 48612    | 4.07  | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol    | 15.69 | 330  | 28491    | 9.55  | ng    | 0.02     |
| 14) 2-Fluorobiphenyl        | 12.81 | 172  | 105078   | 3.75  | ng    | 0.00     |
| 27) Terphenyl-d14           | 19.53 | 244  | 196792   | 5.34  | ng    | 0.00     |

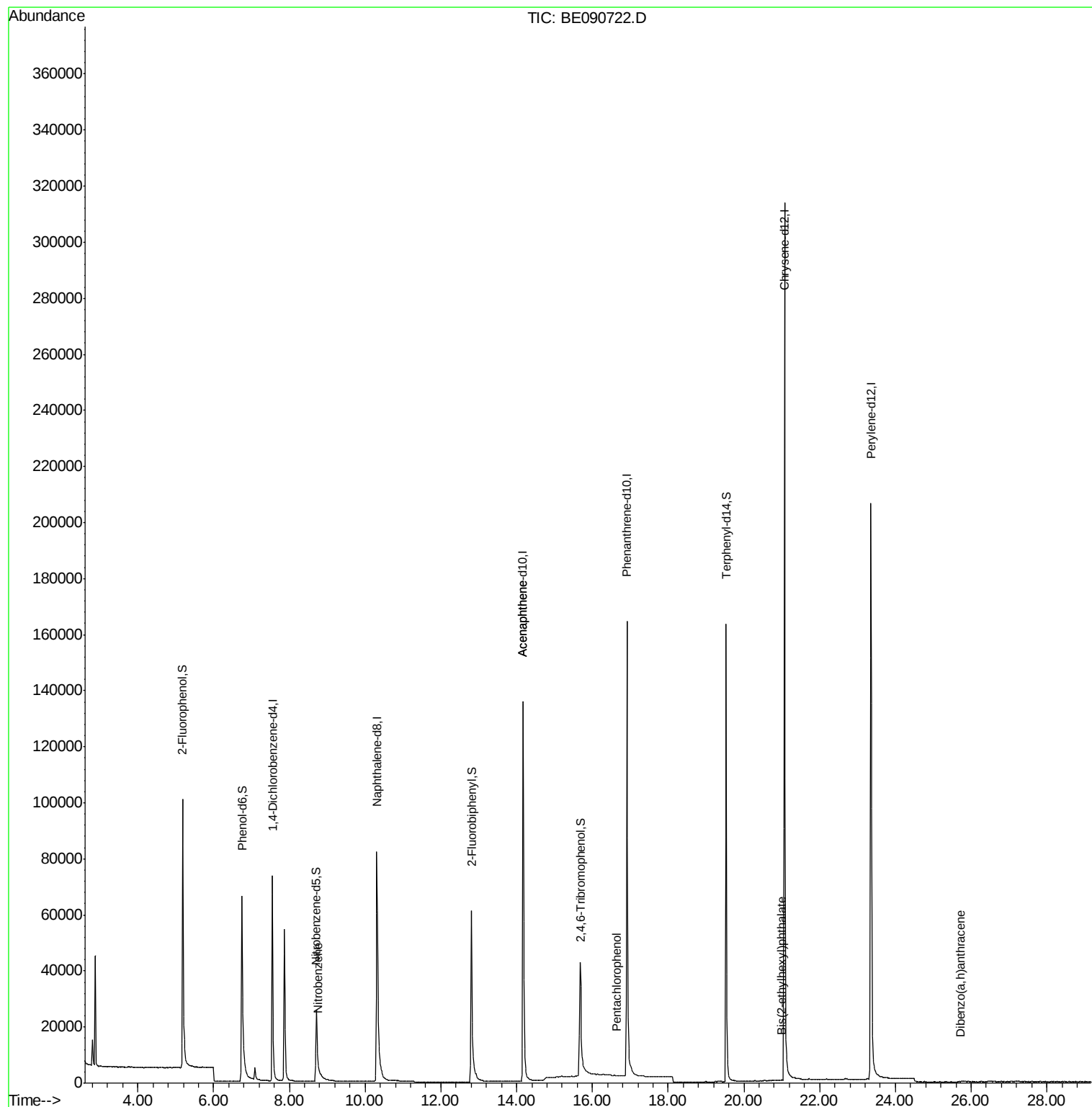
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.15  | 88   | 41       | Below Cal | #     | 45     |
| 3) n-Nitrosodimethylamine      | 3.44  | 42   | 33       | Below Cal | #     | 1      |
| 8) Nitrobenzene                | 8.76  | 77   | 29       | 0.11      | ng    | 43     |
| 16) Acenaphthene               | 14.17 | 154  | 572      | 0.02      | ng    | 1      |
| 20) Hexachlorobenzene          | 16.23 | 284  | 96       | Below Cal | #     | 37     |
| 21) Pentachlorophenol          | 16.63 | 266  | 8        | 0.46      | ng    | 55     |
| 29) Chrysene                   | 21.11 | 228  | 615      | Below Cal | #     | 76     |
| 30) Bis(2-ethylhexyl)phthalate | 21.00 | 149  | 314      | 0.08      | ng    | 96     |
| 36) Dibenzo(a,h)anthracene     | 25.72 | 278  | 21       | 0.14      | ng    | 1      |

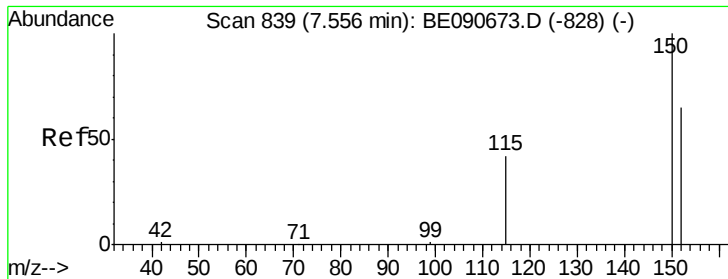
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.55 min Scan# 838

Delta R.T. -0.00 min

Lab File: BE090722.D

Acq: 4 Sep 2015 10:22

Instrument :

BNA\_E

ClientSampleId :

PB85380BL

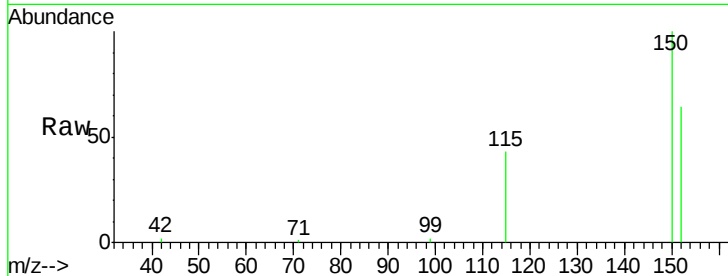
Tgt Ion: 152 Resp: 41379

Ion Ratio Lower Upper

152 100

150 155.8 122.2 183.4

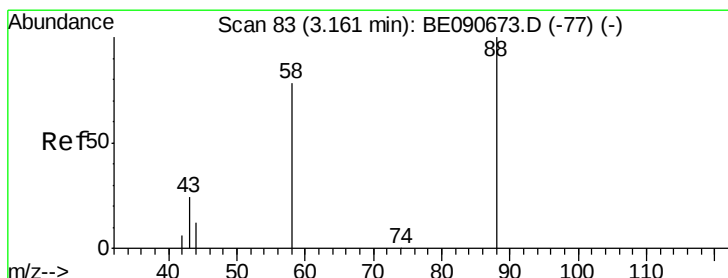
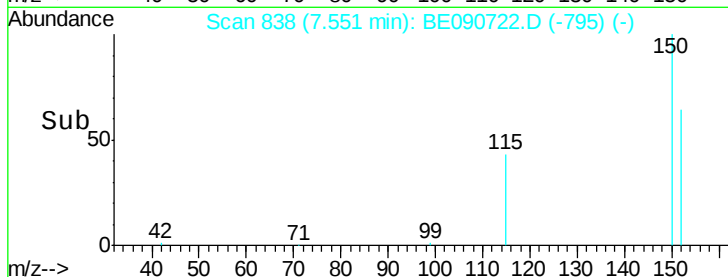
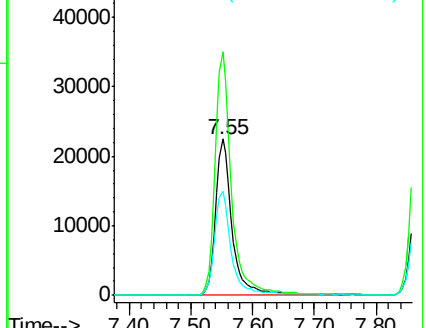
115 66.8 51.0 76.4



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



#2

1,4-Dioxane

Concen: Below Cal

RT: 3.15 min Scan# 81

Delta R.T. -0.01 min

Lab File: BE090722.D

Acq: 4 Sep 2015 10:22

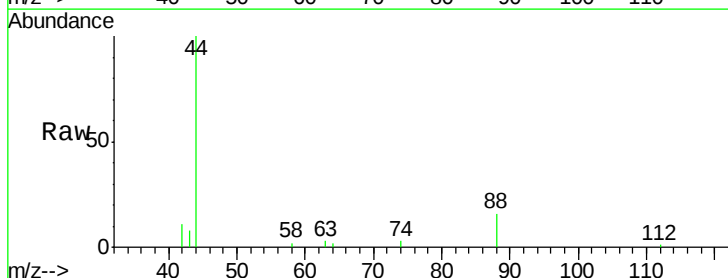
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

58 36.6 68.4 102.6#

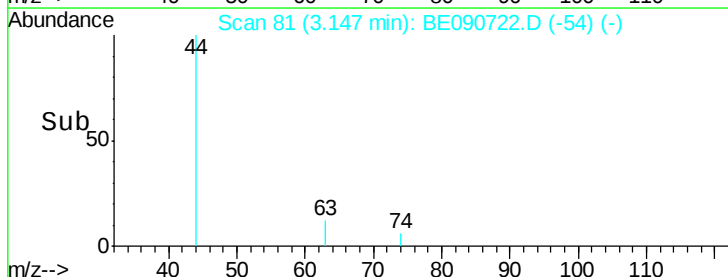
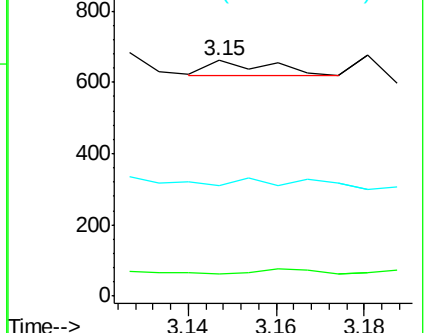
43 0.0 26.9 40.3#



Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



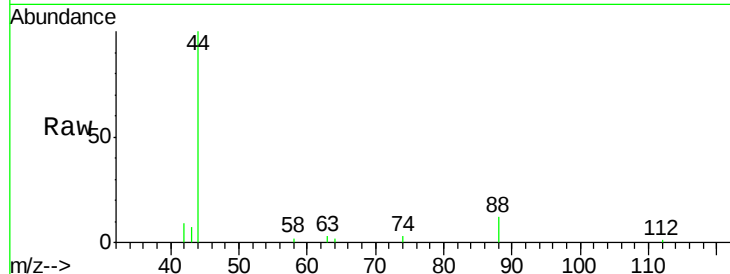


#3

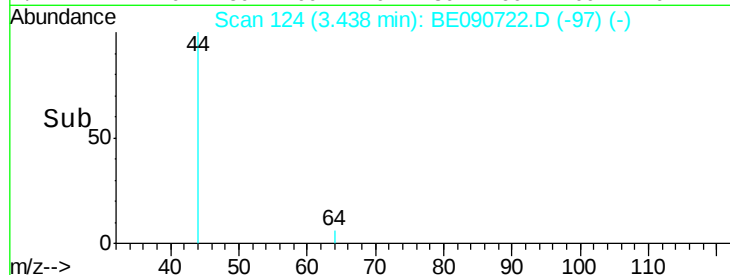
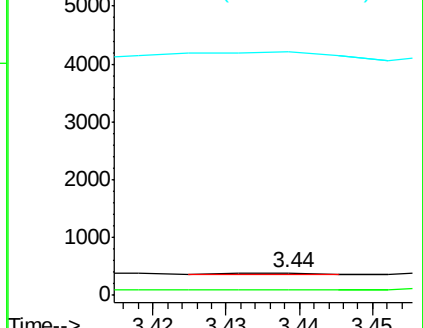
n-Nitrosodimethylamine  
 Concen: Below Cal  
 RT: 3.44 min Scan# 124  
 Delta R.T. -0.01 min  
 Lab File: BE090722.D  
 Acq: 4 Sep 2015 10:22

Instrument :  
 BNA\_E  
 ClientSampled :  
 PB85380BL

Tgt Ion: 42 Resp: 33  
 Ion Ratio Lower Upper  
 42 100  
 74 0.0 83.7 125.5#  
 44 775.8 10.0 15.0#



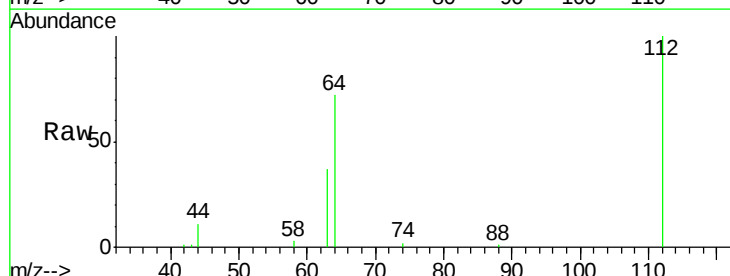
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



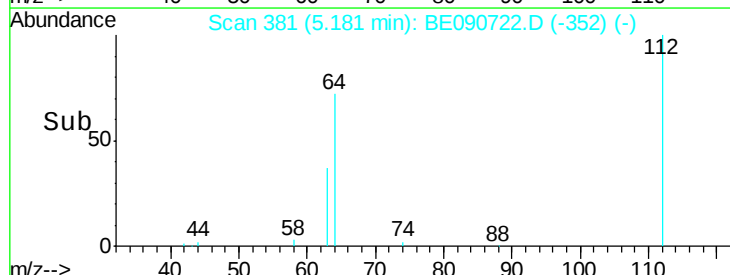
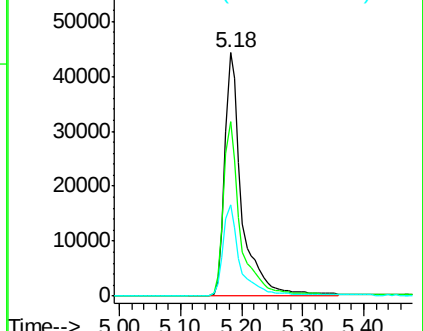
#4

2-Fluorophenol  
 Concen: 10.68 ng  
 RT: 5.18 min Scan# 381  
 Delta R.T. -0.01 min  
 Lab File: BE090722.D  
 Acq: 4 Sep 2015 10:22

Tgt Ion: 112 Resp: 86230  
 Ion Ratio Lower Upper  
 112 100  
 64 71.6 57.3 85.9  
 63 37.0 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: 9.98 ng

RT: 6.75 min Scan# 661

Delta R.T. -0.00 min

Lab File: BE090722.D

Acq: 4 Sep 2015 10:22

Instrument :

BNA\_E

ClientSampled :

PB85380BL

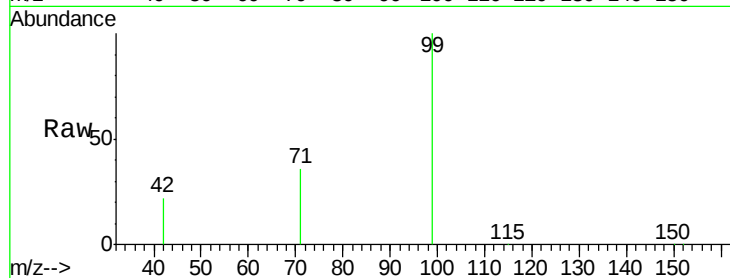
Tgt Ion: 99 Resp: 114988

Ion Ratio Lower Upper

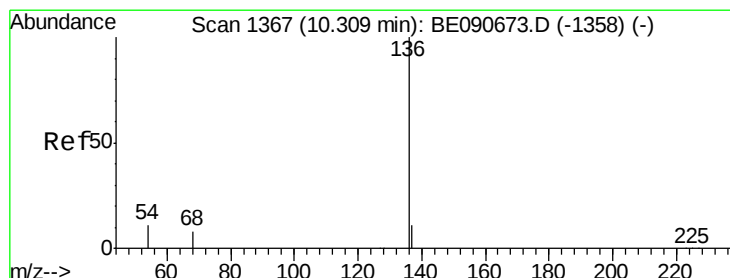
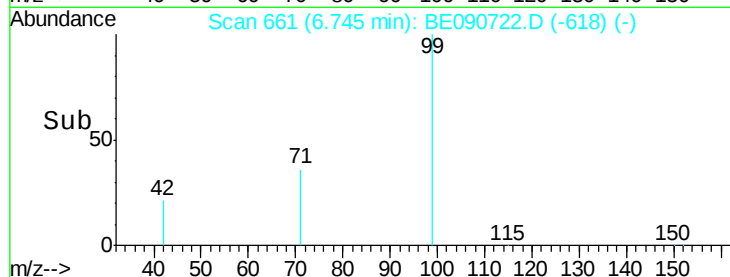
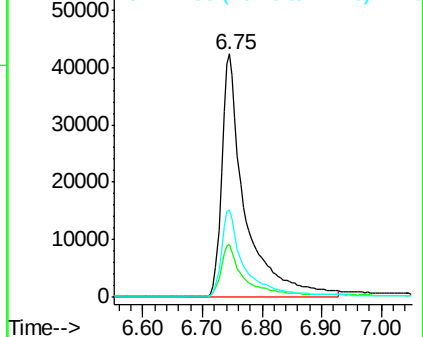
99 100

42 21.2 16.8 25.2

71 35.8 28.3 42.5



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



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.31 min Scan# 1367

Delta R.T. 0.00 min

Lab File: BE090722.D

Acq: 4 Sep 2015 10:22

Tgt Ion: 136 Resp: 180586

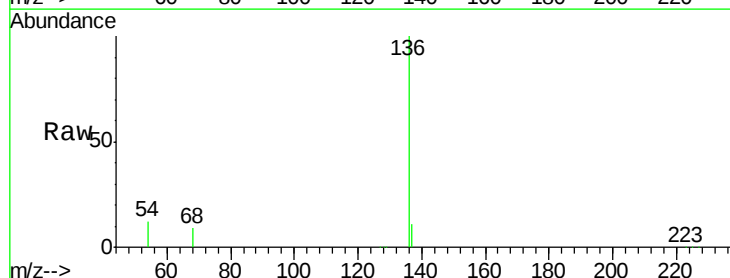
Ion Ratio Lower Upper

136 100

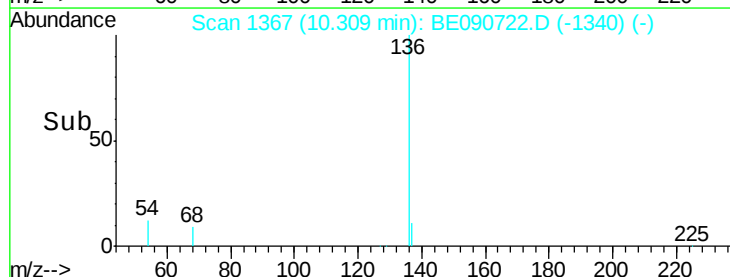
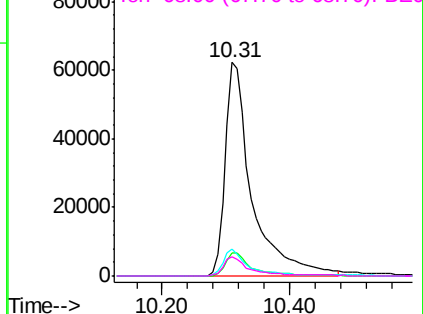
137 11.0 8.7 13.1

54 12.3 9.0 13.6

68 8.8 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





#7

Nitrobenzene-d5

Concen: 4.07 ng

RT: 8.71 min Scan# 1089

Delta R.T. 0.01 min

Lab File: BE090722.D

Acq: 4 Sep 2015 10:22

Instrument :

BNA\_E

ClientSampleId :

PB85380BL

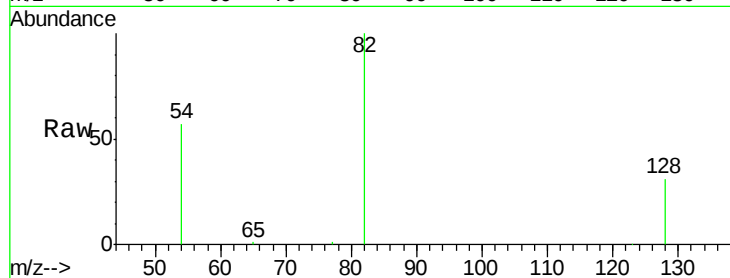
Tgt Ion: 82 Resp: 48612

Ion Ratio Lower Upper

82 100

128 30.7 25.0 37.4

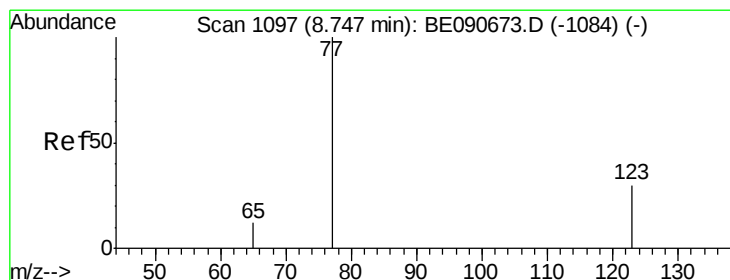
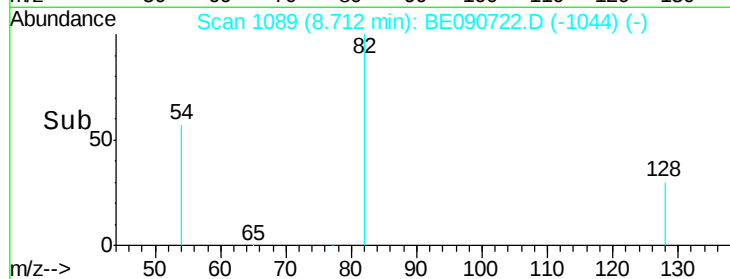
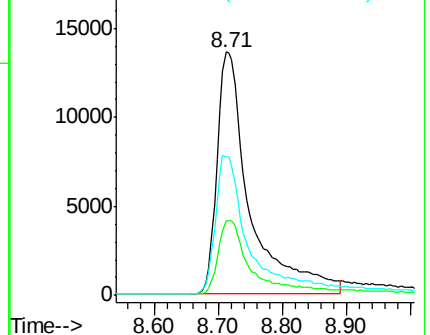
54 57.1 46.3 69.5



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



#8

Nitrobenzene

Concen: 0.11 ng

RT: 8.76 min Scan# 1099

Delta R.T. 0.01 min

Lab File: BE090722.D

Acq: 4 Sep 2015 10:22

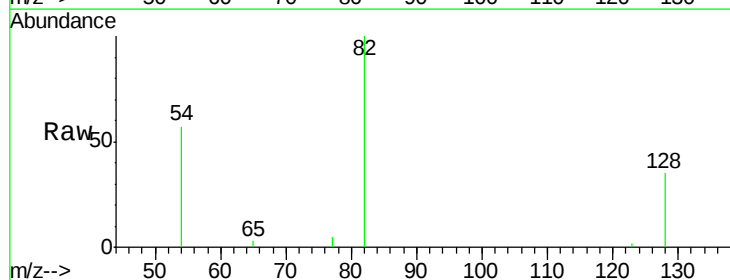
Tgt Ion: 77 Resp: 29

Ion Ratio Lower Upper

77 100

123 34.5 25.1 37.7

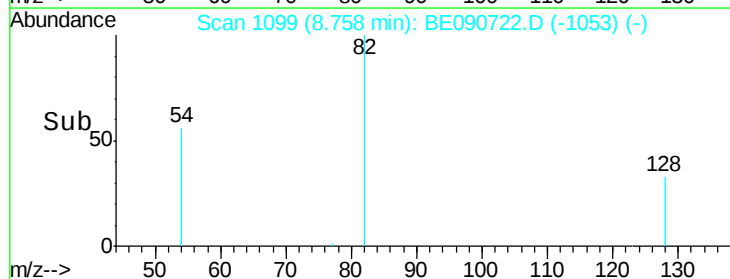
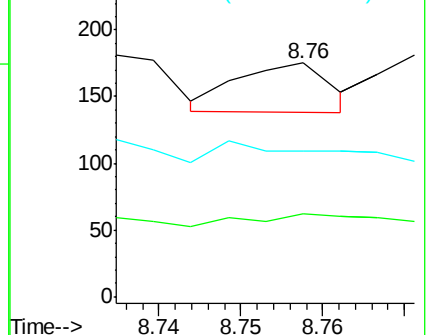
65 86.2 9.9 14.9#

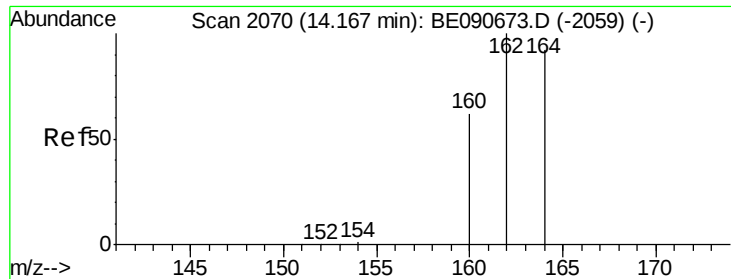


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.17 min Scan# 2071

Delta R.T. 0.01 min

Lab File: BE090722.D

Acq: 4 Sep 2015 10:22

Instrument :

BNA\_E

ClientSampleId :

PB85380BL

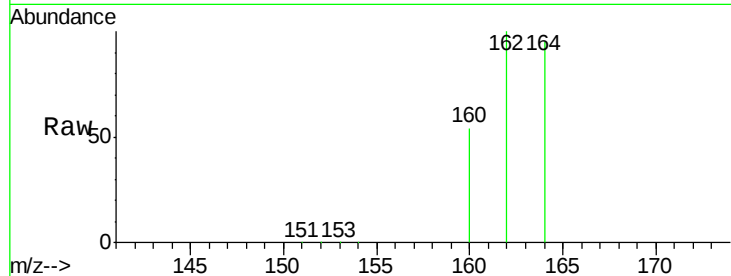
Tgt Ion:164 Resp: 101280

Ion Ratio Lower Upper

164 100

162 105.0 86.8 130.2

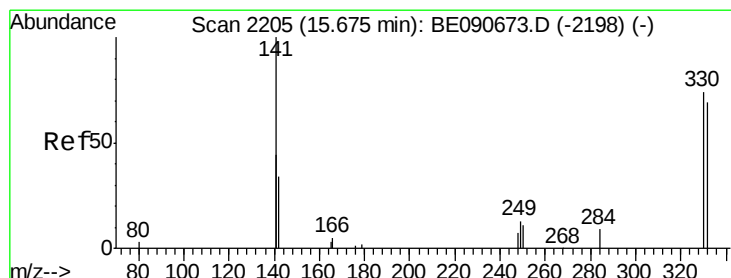
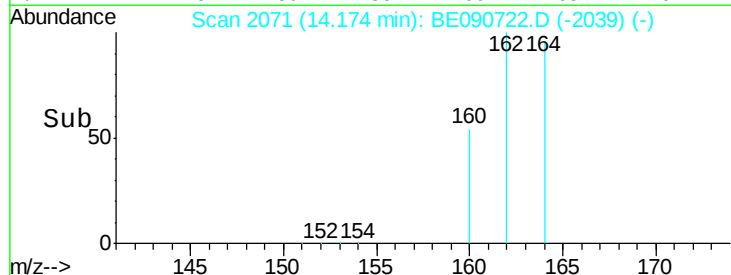
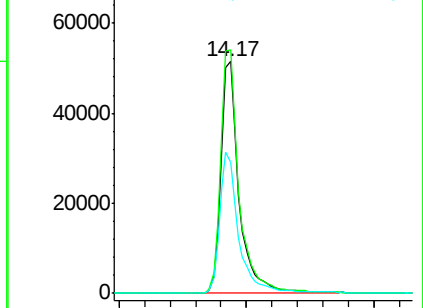
160 56.7 53.9 80.9



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



#13

2,4,6-Tribromophenol

Concen: 9.55 ng

RT: 15.69 min Scan# 2205

Delta R.T. 0.02 min

Lab File: BE090722.D

Acq: 4 Sep 2015 10:22

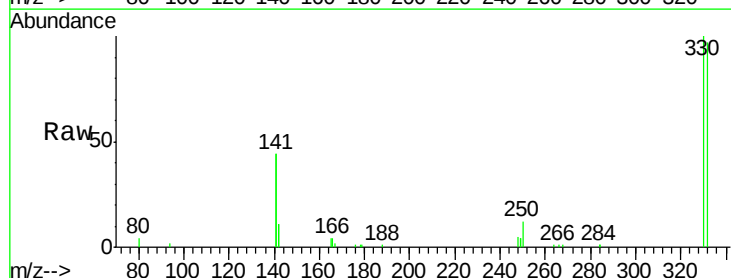
Tgt Ion:330 Resp: 28491

Ion Ratio Lower Upper

330 100

332 96.8 74.9 112.3

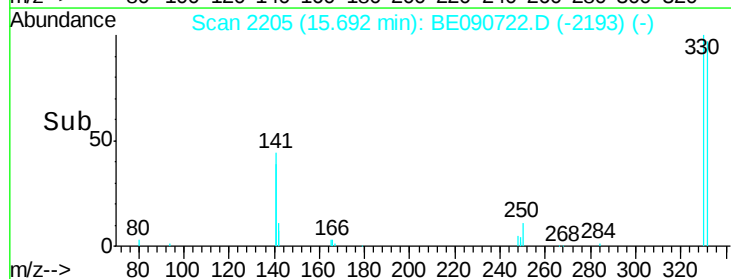
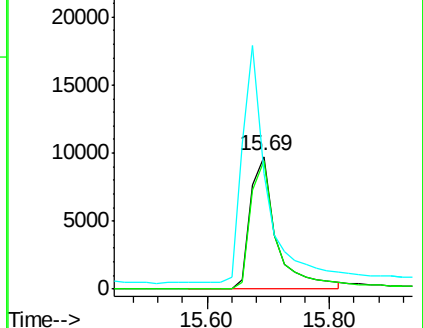
141 176.5 145.2 217.8



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

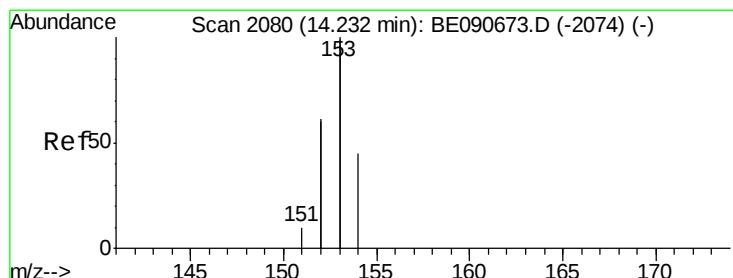
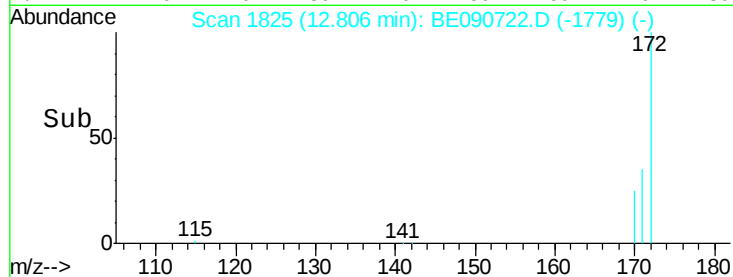
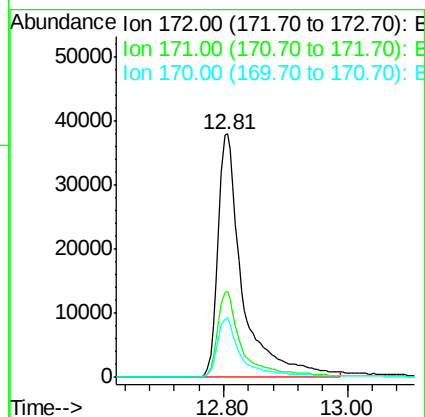
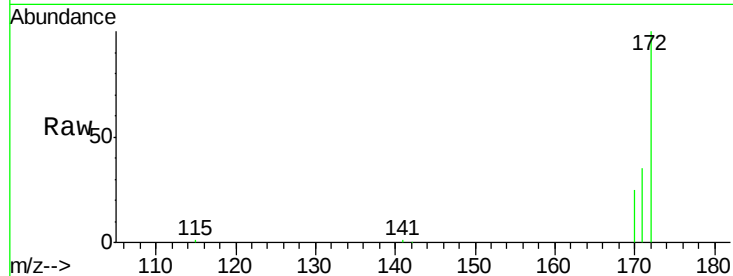




#14  
2-Fluorobiphenyl  
Concen: 3.75 ng  
RT: 12.81 min Scan# 1825  
Delta R.T. 0.01 min  
Lab File: BE090722.D  
Acq: 4 Sep 2015 10:22

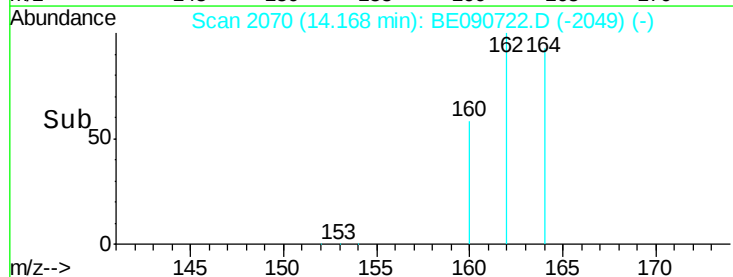
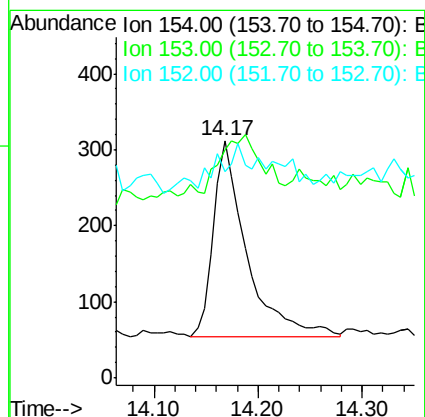
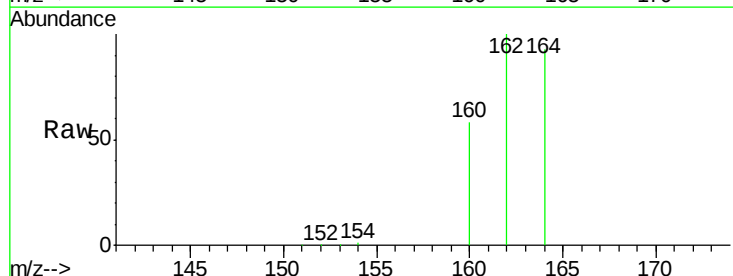
Instrument :  
BNA\_E  
ClientSampleId :  
PB85380BL

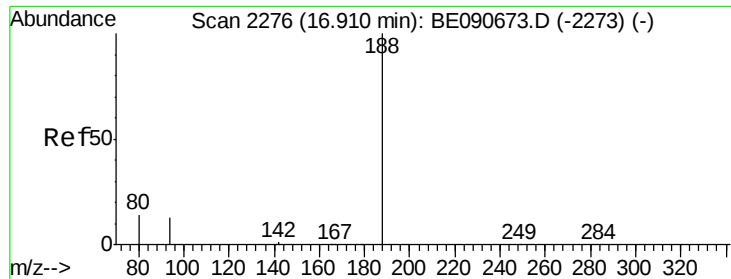
Tgt Ion:172 Resp: 105078  
Ion Ratio Lower Upper  
172 100  
171 35.4 27.8 41.8  
170 24.6 19.8 29.6



#16  
Acenaphthene  
Concen: 0.02 ng  
RT: 14.17 min Scan# 2070  
Delta R.T. -0.06 min  
Lab File: BE090722.D  
Acq: 4 Sep 2015 10:22

Tgt Ion:154 Resp: 572  
Ion Ratio Lower Upper  
154 100  
153 42.5 354.5 531.7#  
152 25.9 227.8 341.6#

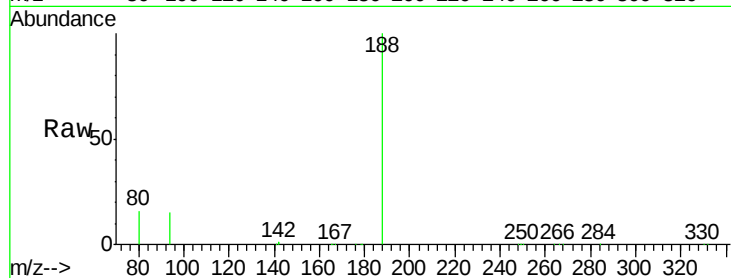




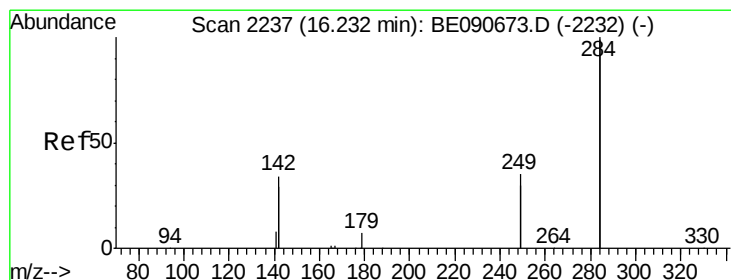
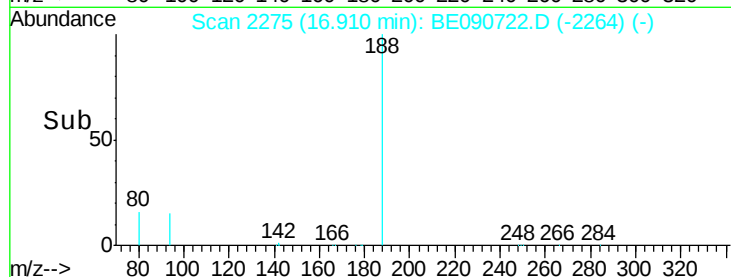
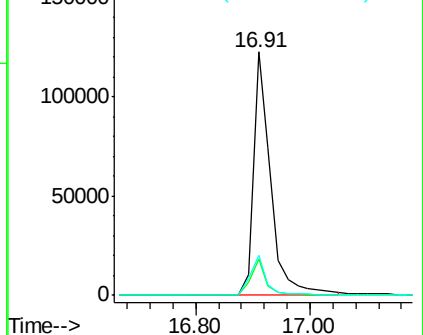
#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 16.91 min Scan# 2275  
Delta R.T. -0.00 min  
Lab File: BE090722.D  
Acq: 4 Sep 2015 10:22

Instrument :  
BNA\_E  
ClientSampleId :  
PB85380BL

Tgt Ion:188 Resp: 258030  
Ion Ratio Lower Upper  
188 100  
94 14.6 10.3 15.5  
80 16.3 11.0 16.6

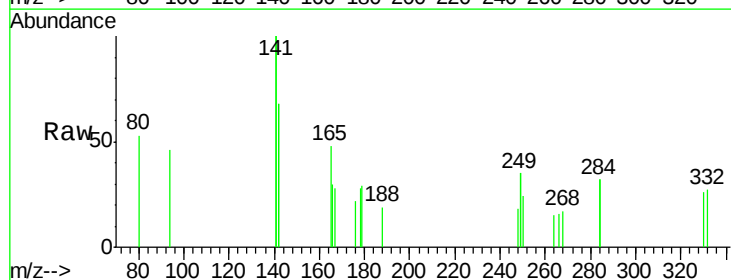


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BE0  
Ion 80.00 (79.70 to 80.70): BE0

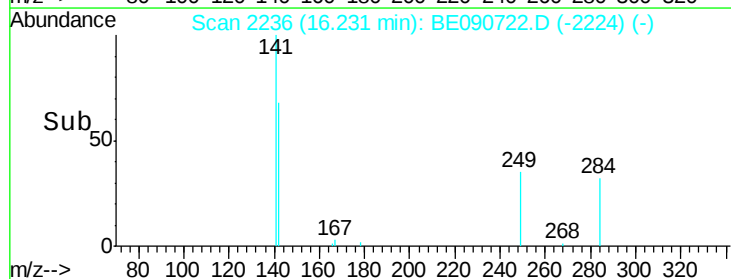
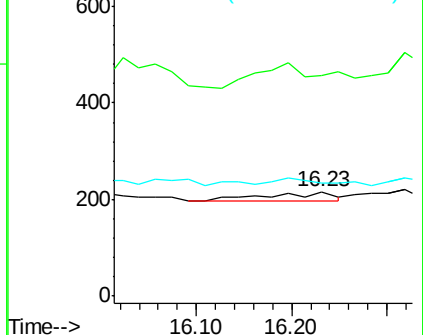


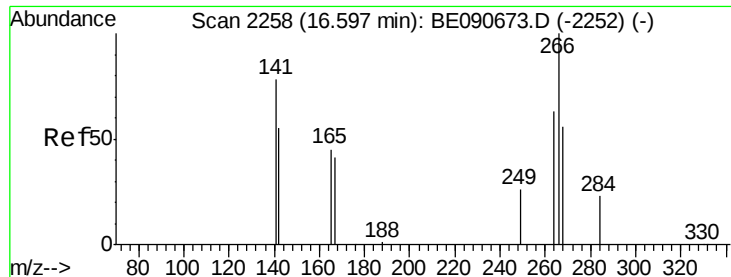
#20  
Hexachlorobenzene  
Concen: Below Cal  
RT: 16.23 min Scan# 2236  
Delta R.T. 0.00 min  
Lab File: BE090722.D  
Acq: 4 Sep 2015 10:22

Tgt Ion:284 Resp: 96  
Ion Ratio Lower Upper  
284 100  
142 0.0 35.0 52.4#  
249 0.0 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

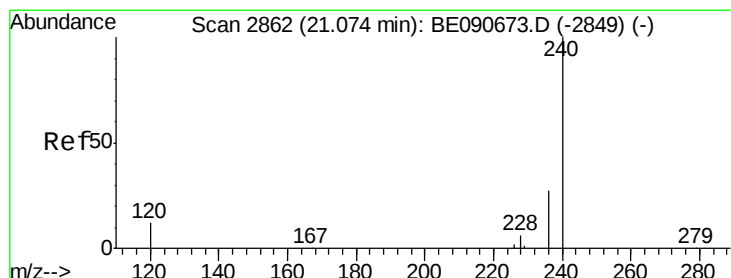
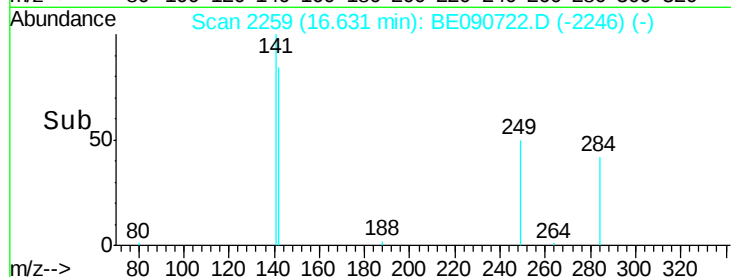
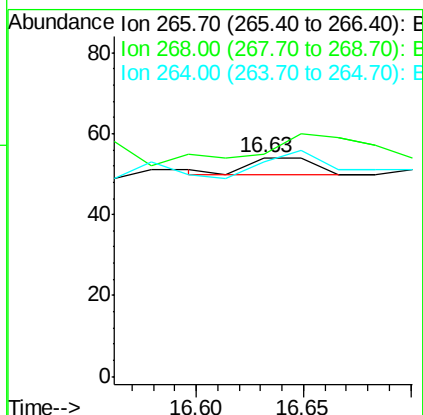
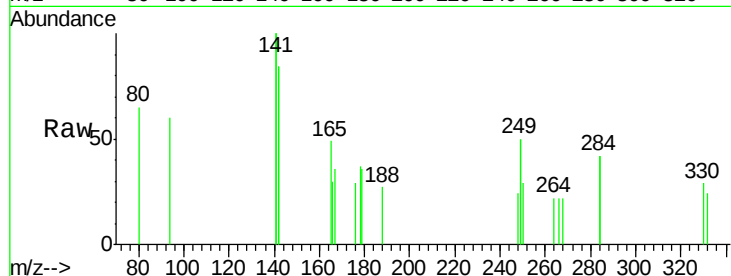




#21  
 Pentachlorophenol  
 Concen: 0.46 ng  
 RT: 16.63 min Scan# 2259  
 Delta R.T. 0.03 min  
 Lab File: BE090722.D  
 Acq: 4 Sep 2015 10:22

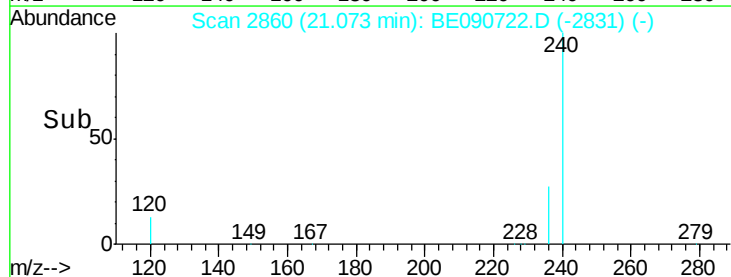
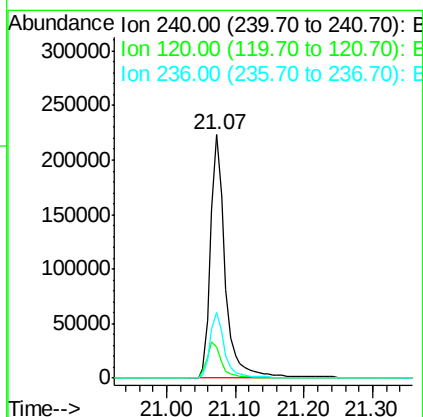
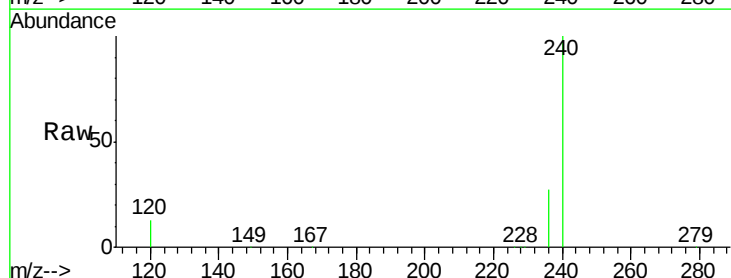
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB85380BL

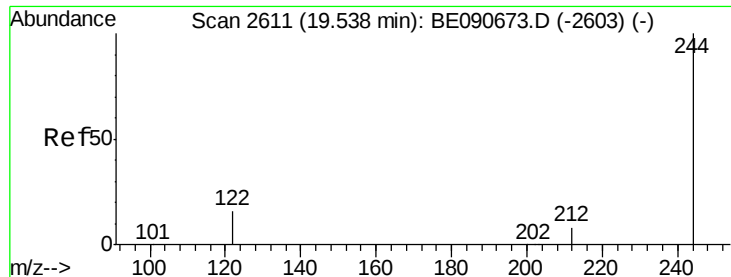
Tgt Ion: 266 Resp: 8  
 Ion Ratio Lower Upper  
 266 100  
 268 101.9 49.6 74.4#  
 264 98.1 53.9 80.9#



#25  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 21.07 min Scan# 2860  
 Delta R.T. -0.00 min  
 Lab File: BE090722.D  
 Acq: 4 Sep 2015 10:22

Tgt Ion: 240 Resp: 333251  
 Ion Ratio Lower Upper  
 240 100  
 120 13.0 10.1 15.1  
 236 26.8 21.9 32.9





#27

Terphenyl-d14

Concen: 5.34 ng

RT: 19.53 min Scan# 2609

Delta R.T. -0.00 min

Lab File: BE090722.D

Acq: 4 Sep 2015 10:22

Instrument :

BNA\_E

ClientSampleId :

PB85380BL

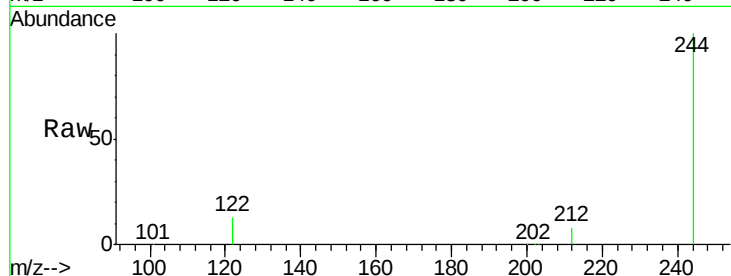
Tgt Ion:244 Resp: 196792

Ion Ratio Lower Upper

244 100

212 7.9 6.9 10.3

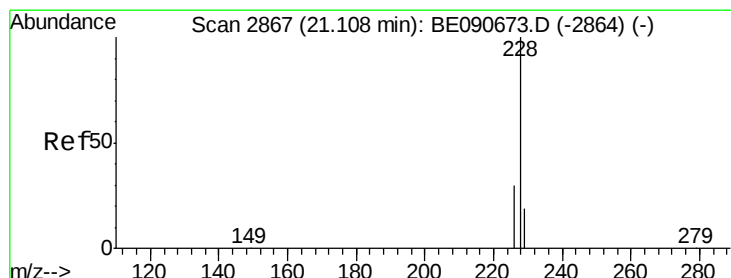
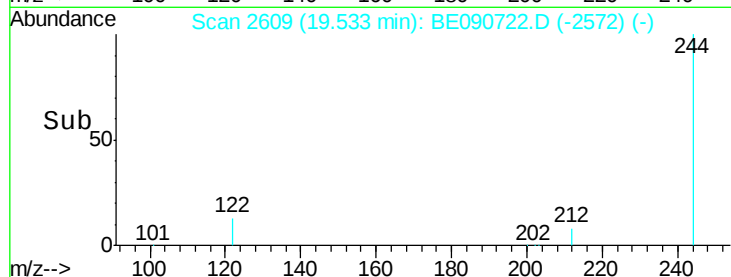
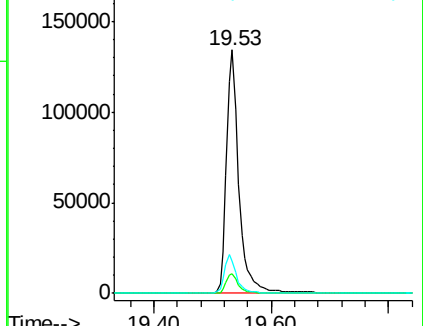
122 13.3 12.9 19.3



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



#29

Chrysene

Concen: Below Cal

RT: 21.11 min Scan# 2865

Delta R.T. -0.00 min

Lab File: BE090722.D

Acq: 4 Sep 2015 10:22

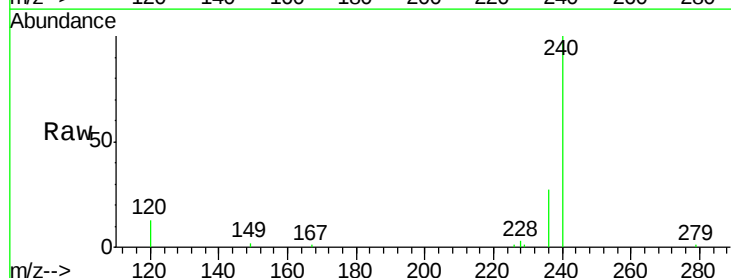
Tgt Ion:228 Resp: 615

Ion Ratio Lower Upper

228 100

226 40.1 24.2 36.4#

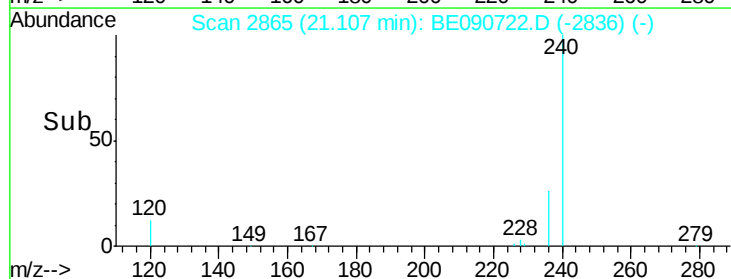
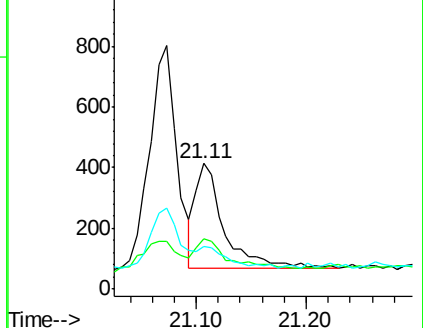
229 34.1 15.3 22.9#

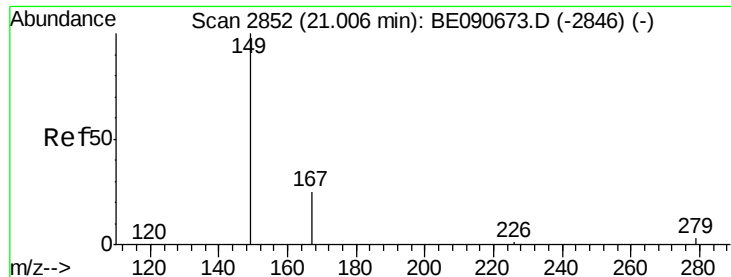


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

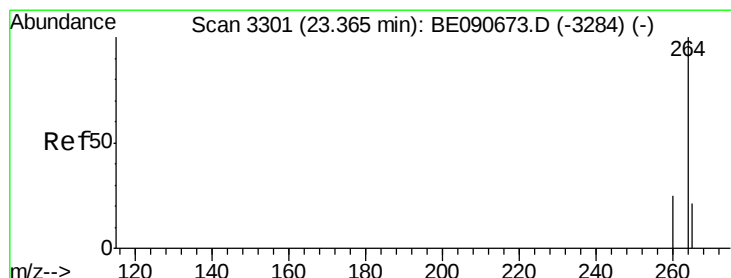
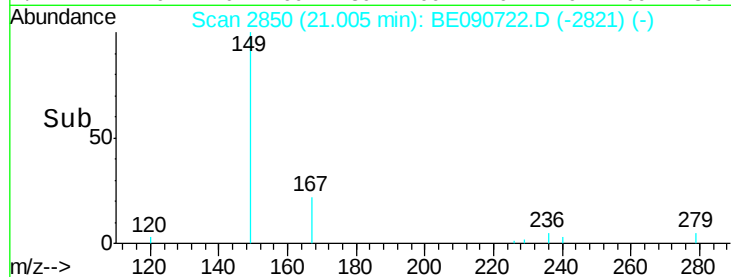
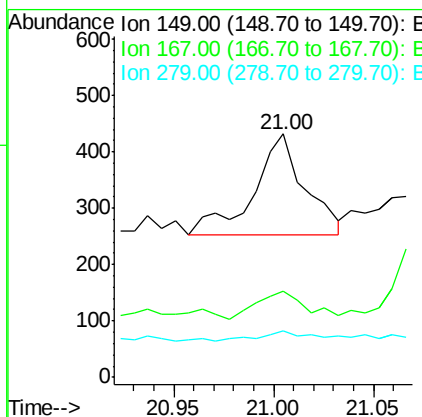
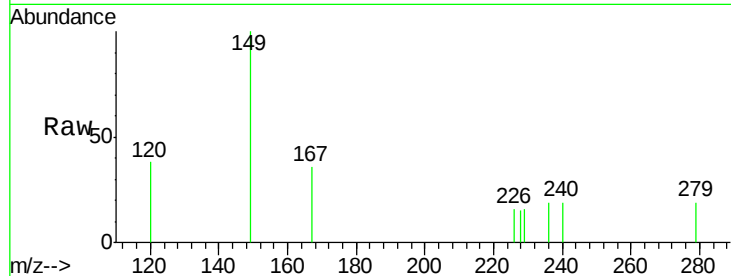




#30  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.08 ng  
 RT: 21.00 min Scan# 2850  
 Delta R.T. -0.00 min  
 Lab File: BE090722.D  
 Acq: 4 Sep 2015 10:22

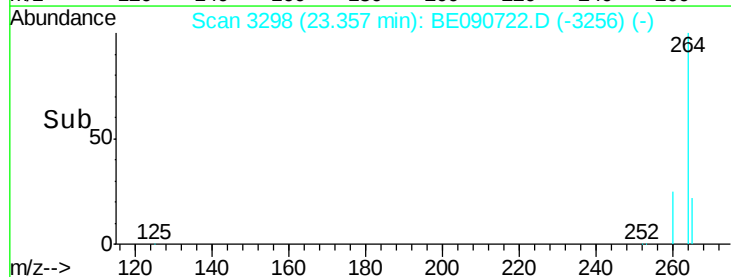
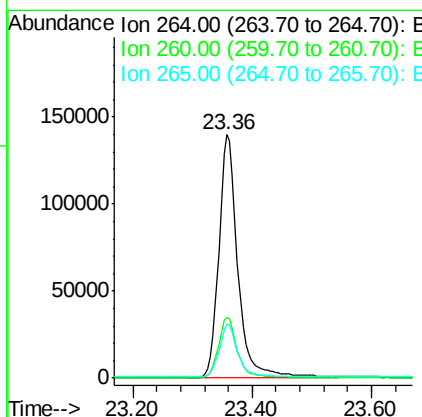
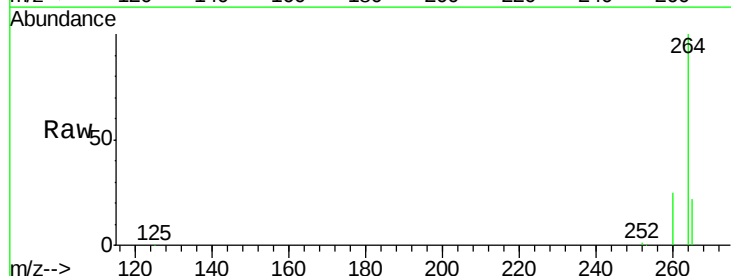
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB85380BL

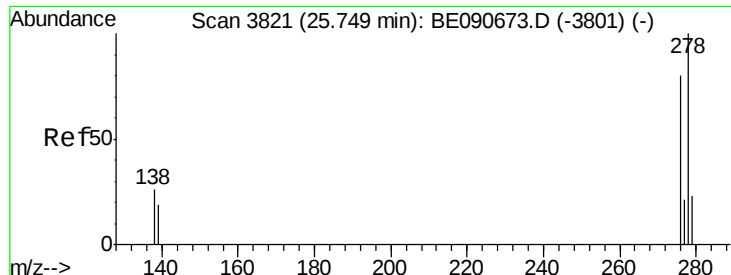
Tgt Ion:149 Resp: 314  
 Ion Ratio Lower Upper  
 149 100  
 167 25.8 20.1 30.1  
 279 10.8 2.3 3.5#



#32  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 23.36 min Scan# 3298  
 Delta R.T. -0.01 min  
 Lab File: BE090722.D  
 Acq: 4 Sep 2015 10:22

Tgt Ion:264 Resp: 312586  
 Ion Ratio Lower Upper  
 264 100  
 260 24.8 19.7 29.5  
 265 22.0 17.5 26.3





#36

Dibenzo(a,h)anthracene

Concen: 0.14 ng

RT: 25.72 min Scan# 3814

Delta R.T. -0.03 min

Lab File: BE090722.D

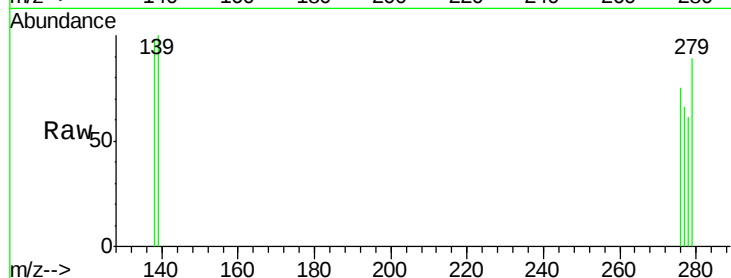
Acq: 4 Sep 2015 10:22

Instrument :

BNA\_E

ClientSampleId :

PB85380BL



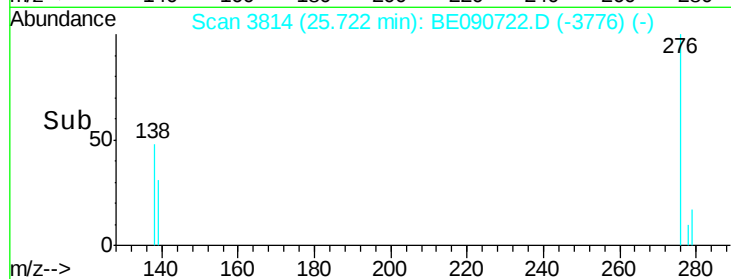
Tgt Ion: 278 Resp: 21

Ion Ratio Lower Upper

278 100

139 162.9 15.4 23.0#

279 145.7 18.8 28.2#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

