

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE080715\  
 Data File : BE090396.D  
 Acq On : 7 Aug 2015 14:14  
 Operator : TP/UM  
 Sample : PB84854BS  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB84854BS

Quant Time: Aug 07 23:03:55 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE080515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 06 12:28:08 2015  
 Response via : Initial Calibration

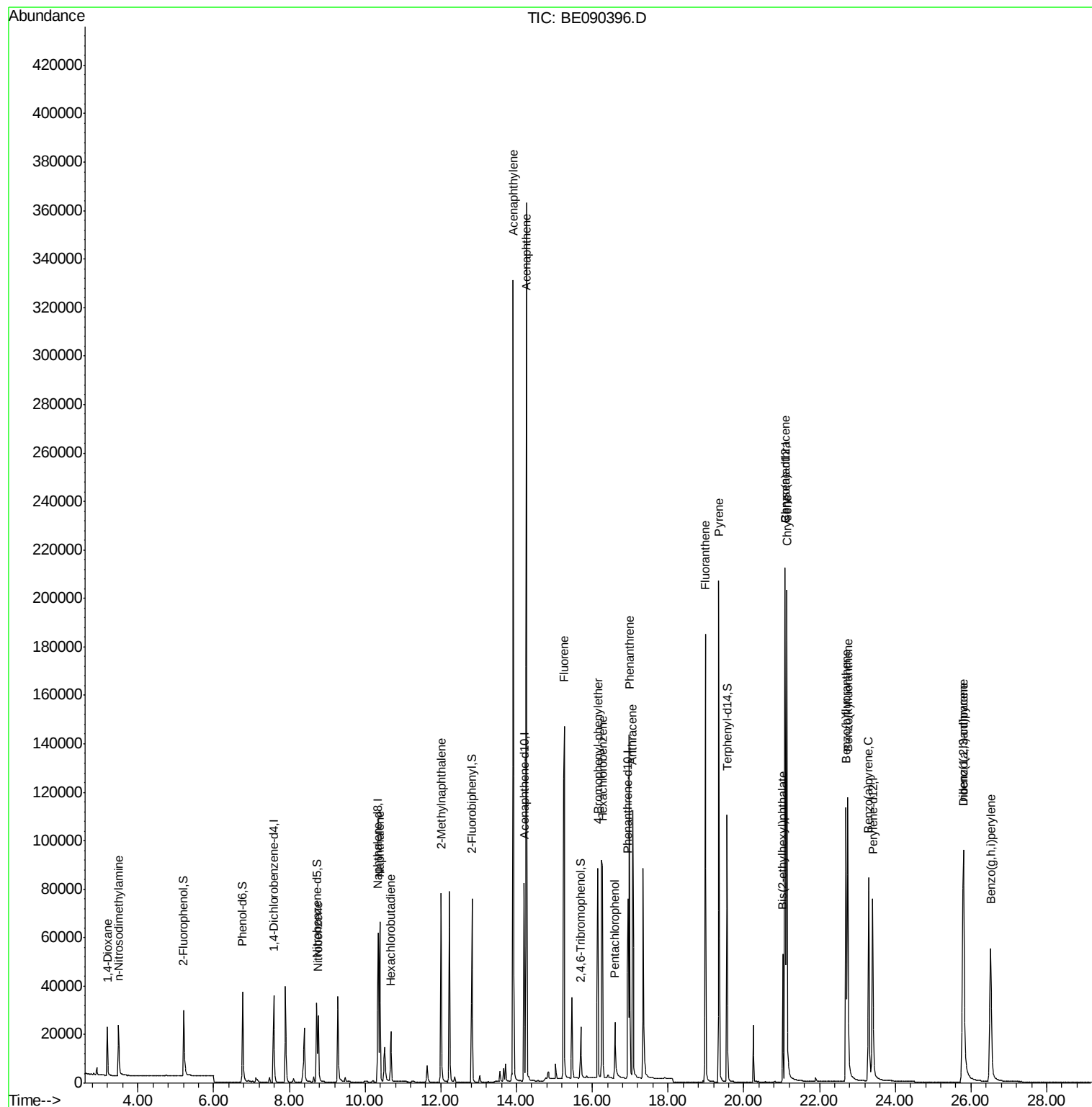
| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.58  | 152  | 18223    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8              | 10.34 | 136  | 81097    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10           | 14.20 | 164  | 45494    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10           | 16.94 | 188  | 104732   | 5.00 | ng    | 0.00     |
| 25) Chrysene-d12               | 21.09 | 240  | 135680   | 5.00 | ng    | 0.00     |
| 32) Perylene-d12               | 23.40 | 264  | 109431   | 5.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |      |       |          |
| 4) 2-Fluorophenol              | 5.22  | 112  | 25675    | 9.39 | ng    | 0.00     |
| 5) Phenol-d6                   | 6.76  | 99   | 45162    | 7.63 | ng    | -0.01    |
| 7) Nitrobenzene-d5             | 8.72  | 82   | 31382    | 4.76 | ng    | -0.01    |
| 13) 2,4,6-Tribromophenol       | 15.69 | 330  | 9689     | 7.28 | ng    | -0.02    |
| 14) 2-Fluorobiphenyl           | 12.82 | 172  | 72850    | 5.82 | ng    | 0.00     |
| 27) Terphenyl-d14              | 19.56 | 244  | 119674   | 5.99 | ng    | 0.00     |
| Target Compounds               |       |      |          |      |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.20  | 88   | 11234    | 5.24 | ng    | 99       |
| 3) n-Nitrosodimethylamine      | 3.49  | 42   | 14501    | 5.14 | ng    | 99       |
| 8) Nitrobenzene                | 8.76  | 77   | 33409    | 4.74 | ng    | 98       |
| 9) Naphthalene                 | 10.38 | 128  | 89972    | 5.02 | ng    | 98       |
| 10) Hexachlorobutadiene        | 10.68 | 225  | 15341    | 5.68 | ng    | 100      |
| 11) 2-Methylnaphthalene        | 12.00 | 142  | 58014    | 5.59 | ng    | 98       |
| 15) Acenaphthylene             | 13.91 | 152  | 414691   | 5.63 | ng    | 100      |
| 16) Acenaphthene               | 14.26 | 154  | 62101    | 5.42 | ng    | 93       |
| 17) Fluorene                   | 15.26 | 166  | 85040    | 5.72 | ng    | 98       |
| 19) 4-Bromophenyl-phenylether  | 16.14 | 248  | 22605    | 5.55 | ng    | 91       |
| 20) Hexachlorobenzene          | 16.27 | 284  | 108532   | 5.16 | ng    | 99       |
| 21) Pentachlorophenol          | 16.60 | 266  | 14673    | 8.46 | ng    | 90       |
| 22) Phenanthrene               | 16.98 | 178  | 147645   | 5.63 | ng    | 100      |
| 23) Anthracene                 | 17.07 | 178  | 139017   | 6.46 | ng    | 100      |
| 24) Fluoranthene               | 18.98 | 202  | 162117   | 6.29 | ng    | 100      |
| 26) Pyrene                     | 19.34 | 202  | 180920   | 6.15 | ng    | 99       |
| 28) Benzo(a)anthracene         | 21.08 | 228  | 174316   | 5.80 | ng    | 100      |
| 29) Chrysene                   | 21.14 | 228  | 191134   | 5.26 | ng    | 100      |
| 30) Bis(2-ethylhexyl)phthalate | 21.03 | 149  | 45072    | 4.37 | ng    | 99       |
| 31) Indeno(1,2,3-cd)pyrene     | 25.79 | 276  | 144099   | 4.42 | ng    | 95       |
| 33) Benzo(b)fluoranthene       | 22.70 | 252  | 146142   | 5.87 | ng    | 98       |
| 34) Benzo(k)fluoranthene       | 22.75 | 252  | 168054   | 5.51 | ng    | 99       |
| 35) Benzo(a)pyrene             | 23.30 | 252  | 129503   | 5.51 | ng    | 100      |
| 36) Dibenzo(a,h)anthracene     | 25.80 | 278  | 115675   | 5.04 | ng    | 97       |
| 37) Benzo(g,h,i)perylene       | 26.52 | 276  | 127704   | 6.32 | ng    | 98       |

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

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Quant Time: Aug 07 23:03:55 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE080515.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 06 12:28:08 2015  
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 845

Delta R.T. -0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA\_E

ClientSampleId :

PB84854BS

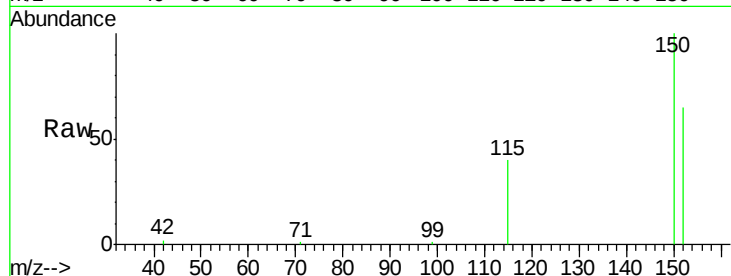
Tgt Ion:152 Resp: 18223

Ion Ratio Lower Upper

152 100

150 154.7 123.0 184.4

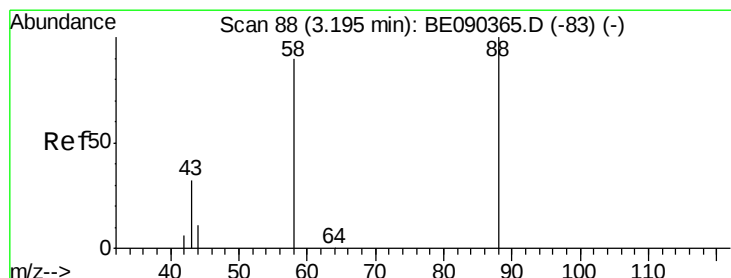
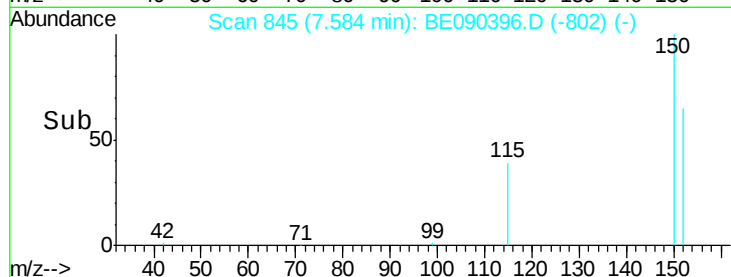
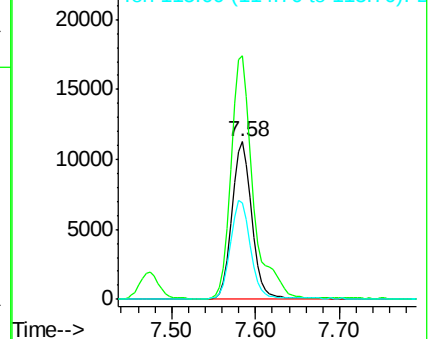
115 61.1 48.9 73.3



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



#2

1,4-Dioxane

Concen: 5.24 ng

RT: 3.20 min Scan# 88

Delta R.T. 0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

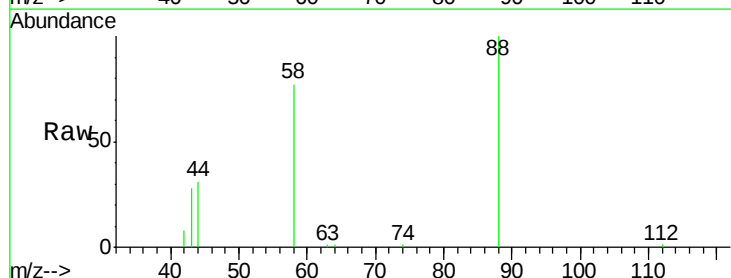
Tgt Ion: 88 Resp: 11234

Ion Ratio Lower Upper

88 100

58 88.2 70.0 105.0

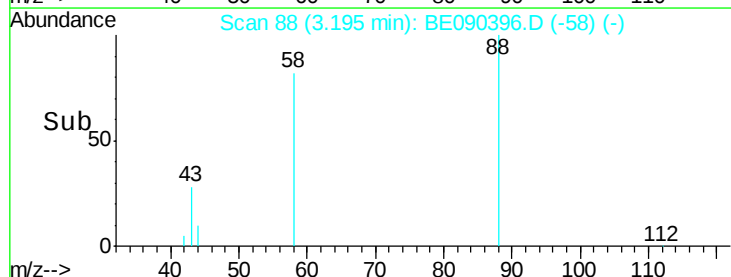
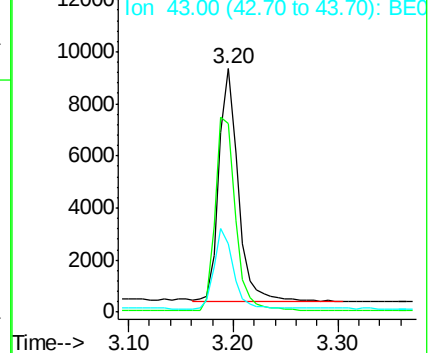
43 34.2 28.4 42.6

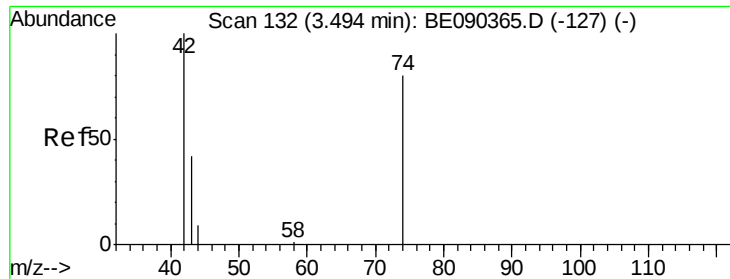


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



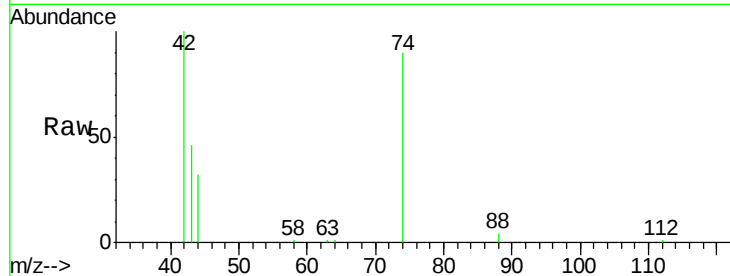


#3

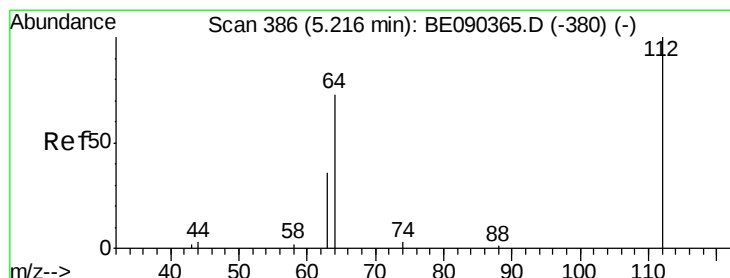
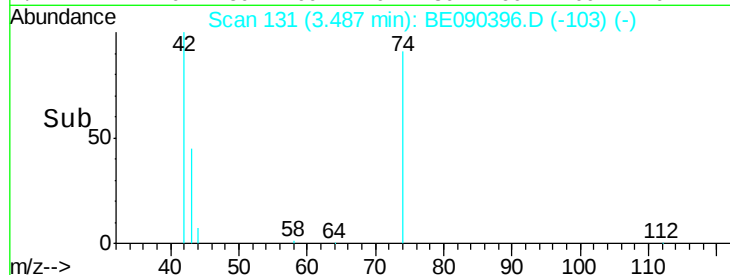
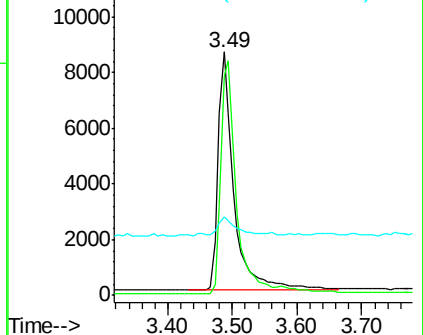
n-Nitrosodimethylamine  
 Concen: 5.14 ng  
 RT: 3.49 min Scan# 131  
 Delta R.T. -0.01 min  
 Lab File: BE090396.D  
 Acq: 7 Aug 2015 14:14

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB84854BS

Tgt Ion: 42 Resp: 14501  
 Ion Ratio Lower Upper  
 42 100  
 74 93.5 75.2 112.8  
 44 10.4 8.7 13.1



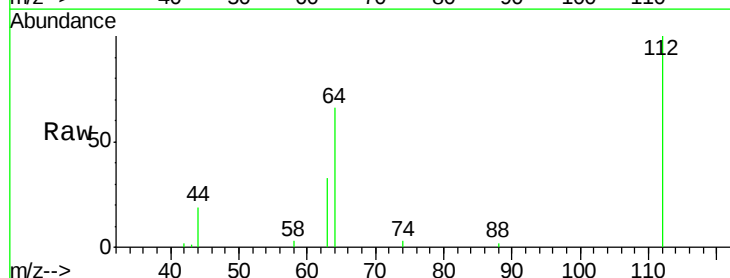
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



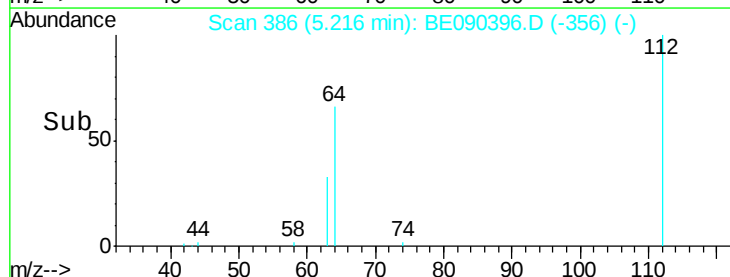
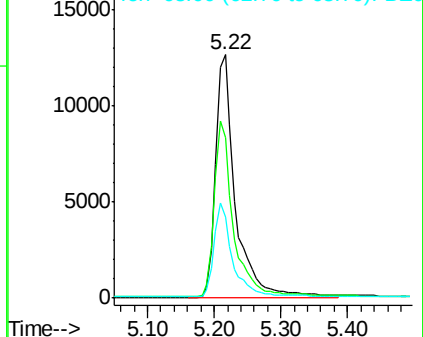
#4

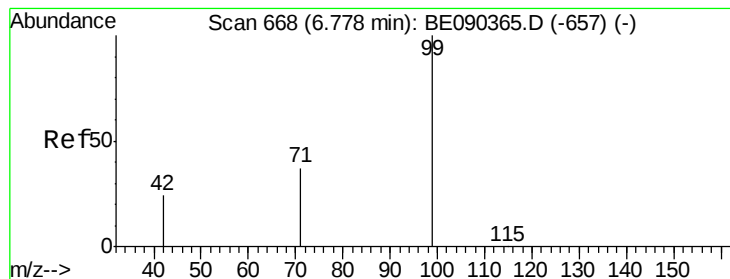
2-Fluorophenol  
 Concen: 9.39 ng  
 RT: 5.22 min Scan# 386  
 Delta R.T. 0.00 min  
 Lab File: BE090396.D  
 Acq: 7 Aug 2015 14:14

Tgt Ion: 112 Resp: 25675  
 Ion Ratio Lower Upper  
 112 100  
 64 71.1 37.1 55.7#  
 63 37.2 19.5 29.3#



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: 7.63 ng

RT: 6.76 min Scan# 665

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA\_E

ClientSampleId :

PB84854BS

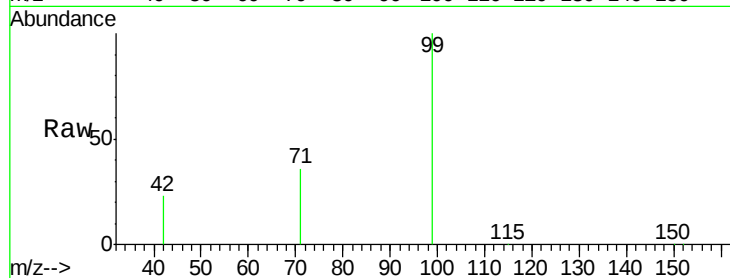
Tgt Ion: 99 Resp: 45162

Ion Ratio Lower Upper

99 100

42 23.4 18.2 27.4

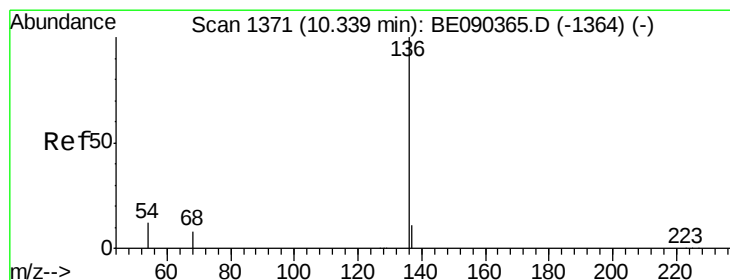
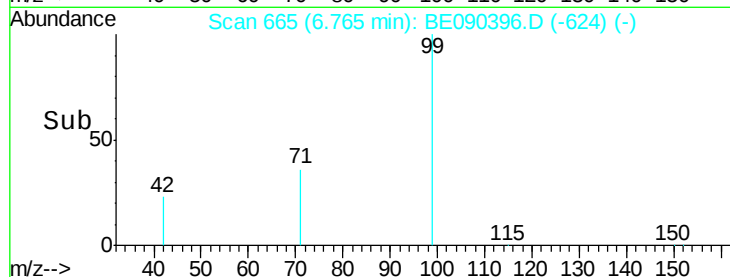
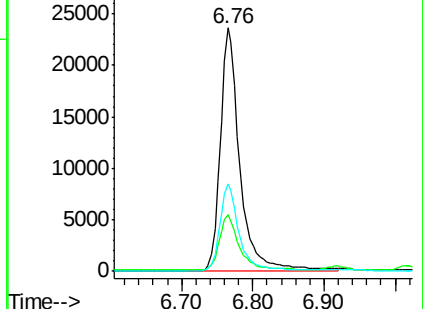
71 35.3 27.4 41.0



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: 10.34 min Scan# 1371

Delta R.T. 0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Tgt Ion: 136 Resp: 81097

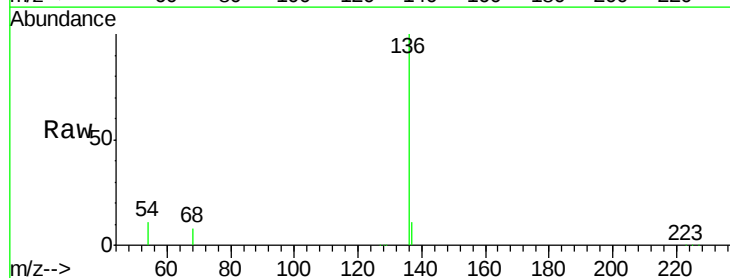
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 10.7 9.4 14.0

68 7.7 6.5 9.7

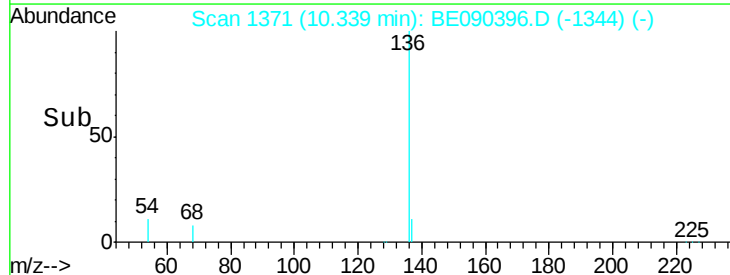
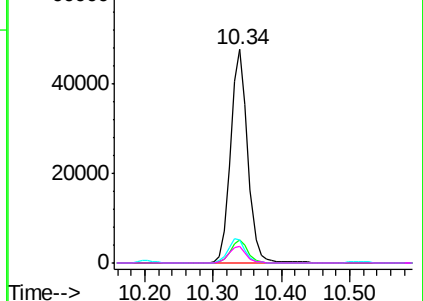


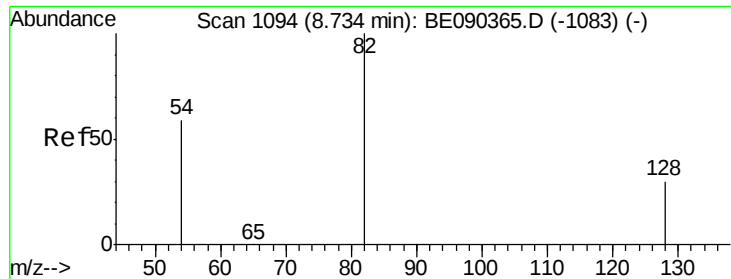
Abundance Ion 136.00 (135.70 to 136.70): E

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: 4.76 ng

RT: 8.72 min Scan# 1091

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA\_E

ClientSampleId :

PB84854BS

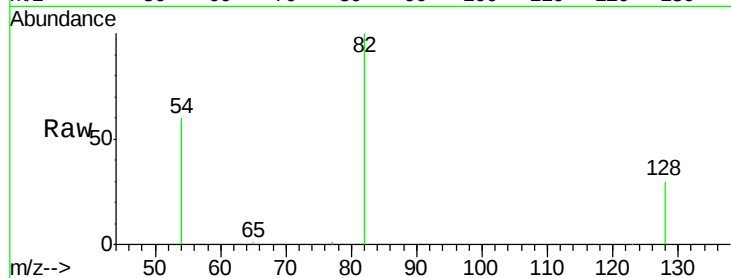
Tgt Ion: 82 Resp: 31382

Ion Ratio Lower Upper

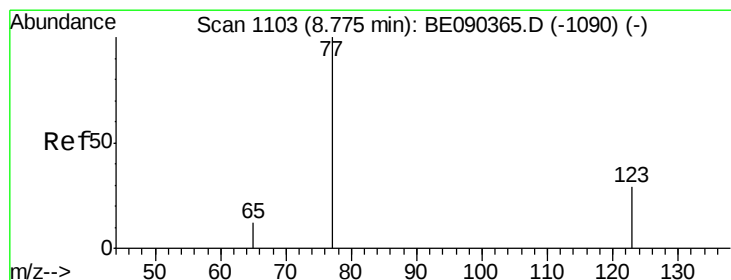
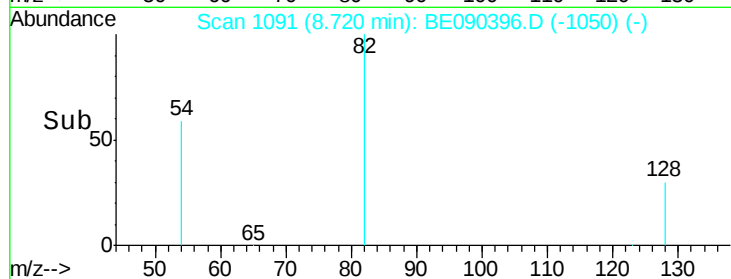
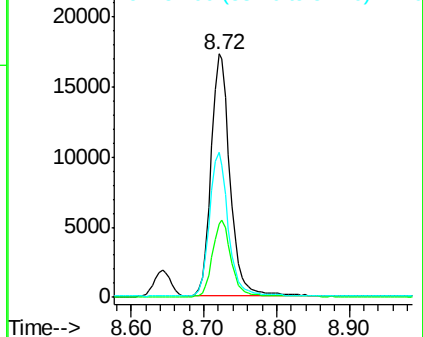
82 100

128 30.0 25.0 37.6

54 59.7 48.8 73.2



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



#8

Nitrobenzene

Concen: 4.74 ng

RT: 8.76 min Scan# 1100

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

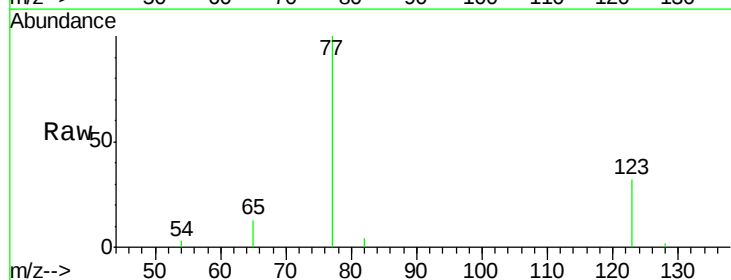
Tgt Ion: 77 Resp: 33409

Ion Ratio Lower Upper

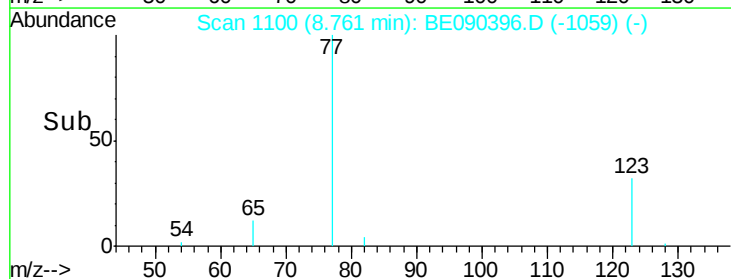
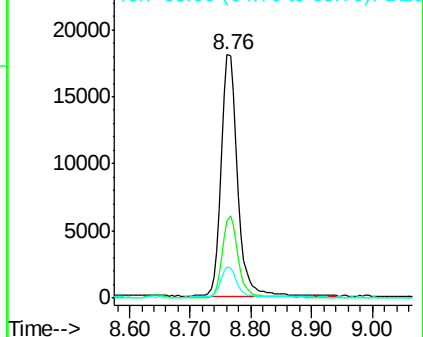
77 100

123 32.8 25.1 37.7

65 12.3 9.3 13.9



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





#9

Naphthalene

Concen: 5.02 ng

RT: 10.38 min Scan# 1377

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

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ClientSampleId :

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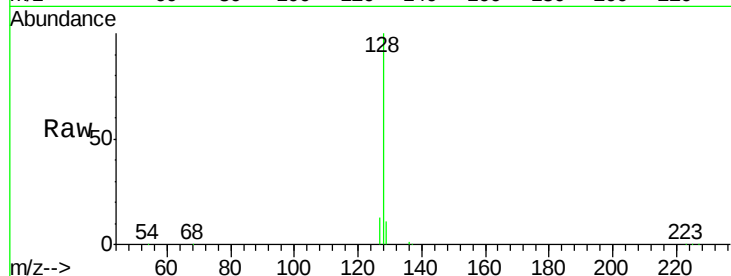
Tgt Ion:128 Resp: 89972

Ion Ratio Lower Upper

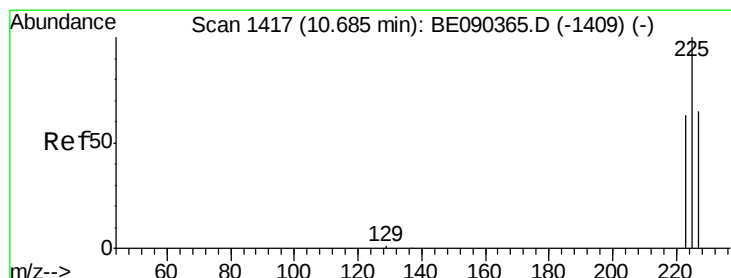
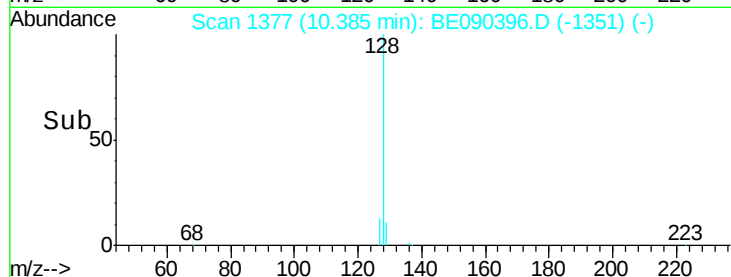
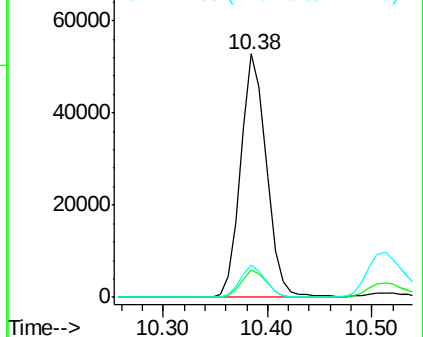
128 100

129 11.0 9.8 14.6

127 13.2 10.6 16.0



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



#10

Hexachlorobutadiene

Concen: 5.68 ng

RT: 10.68 min Scan# 1416

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

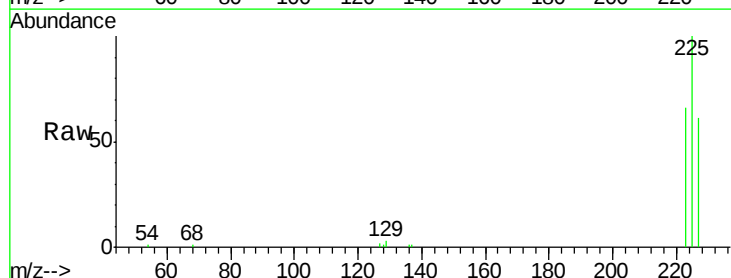
Tgt Ion:225 Resp: 15341

Ion Ratio Lower Upper

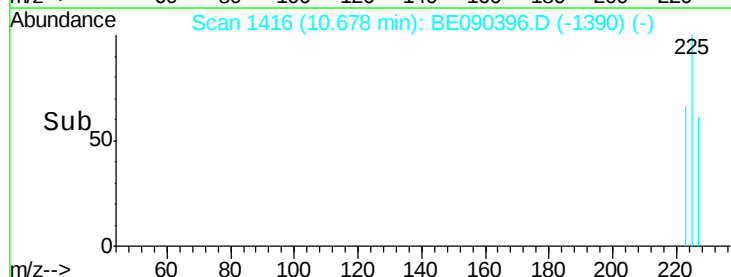
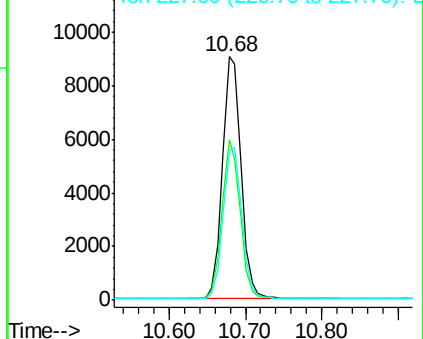
225 100

223 63.3 50.6 75.8

227 63.2 50.7 76.1



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

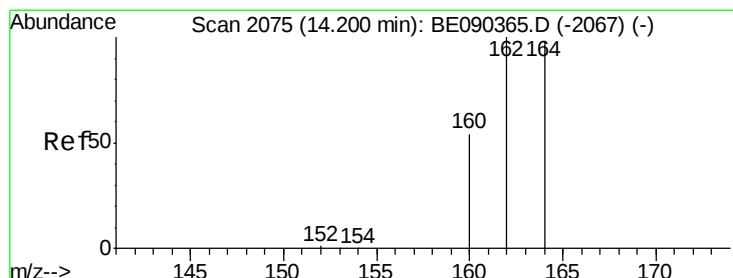
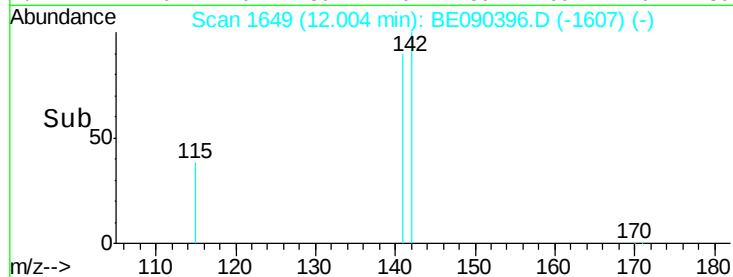
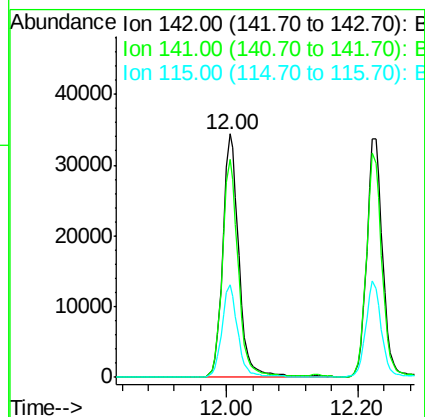
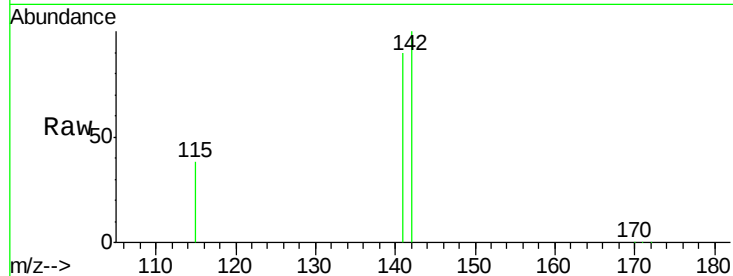




#11  
2-Methylnaphthalene  
Concen: 5.59 ng  
RT: 12.00 min Scan# 1649  
Delta R.T. -0.01 min  
Lab File: BE090396.D  
Acq: 7 Aug 2015 14:14

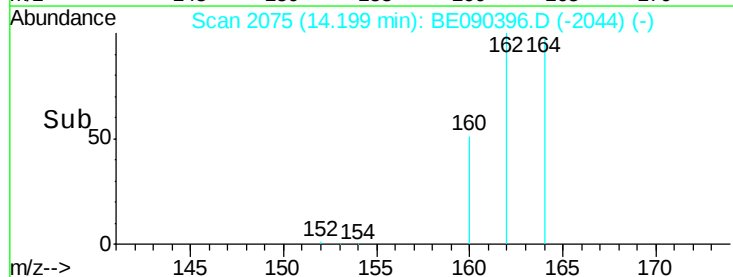
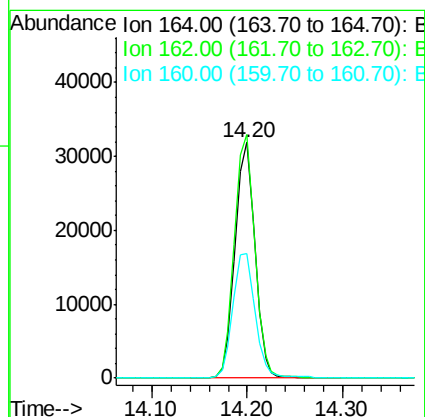
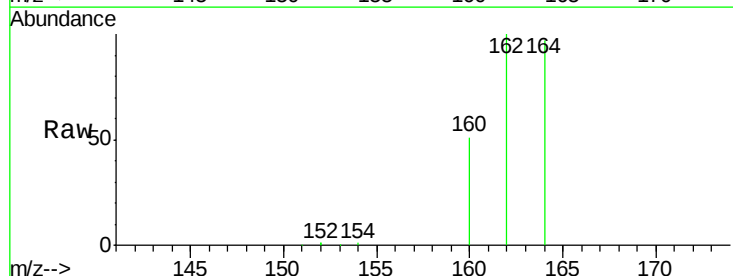
Instrument :  
BNA\_E  
ClientSampleId :  
PB84854BS

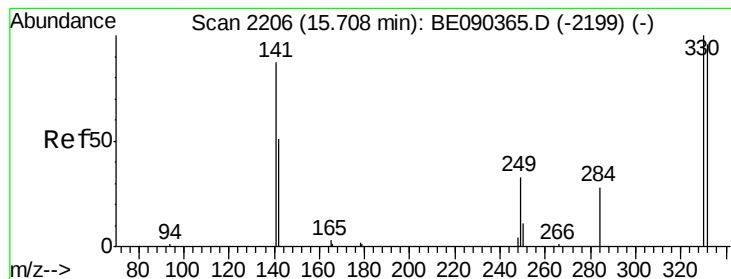
Tgt Ion:142 Resp: 58014  
Ion Ratio Lower Upper  
142 100  
141 89.7 72.6 109.0  
115 37.9 31.6 47.4



#12  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.20 min Scan# 2075  
Delta R.T. -0.00 min  
Lab File: BE090396.D  
Acq: 7 Aug 2015 14:14

Tgt Ion:164 Resp: 45494  
Ion Ratio Lower Upper  
164 100  
162 103.5 81.8 122.8  
160 52.9 44.2 66.4





#13

2,4,6-Tribromophenol

Concen: 7.28 ng

RT: 15.69 min Scan# 2205

Delta R.T. -0.02 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA\_E

ClientSampleId :

PB84854BS

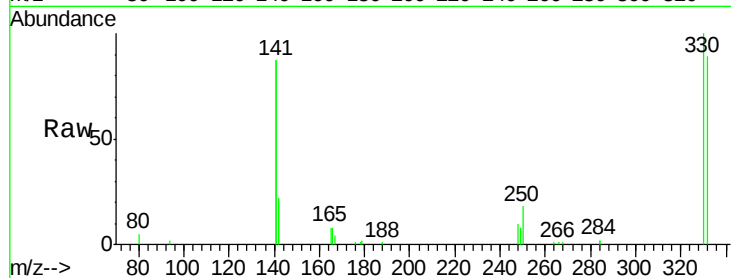
Tgt Ion:330 Resp: 9689

Ion Ratio Lower Upper

330 100

332 96.3 75.8 113.6

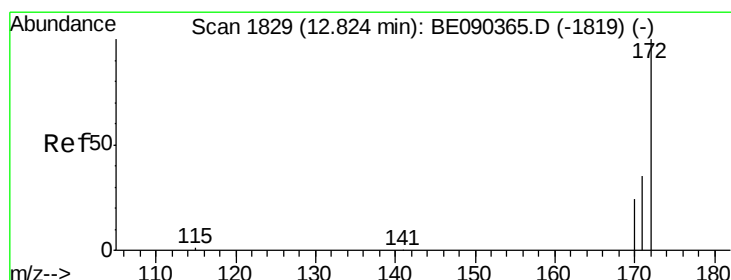
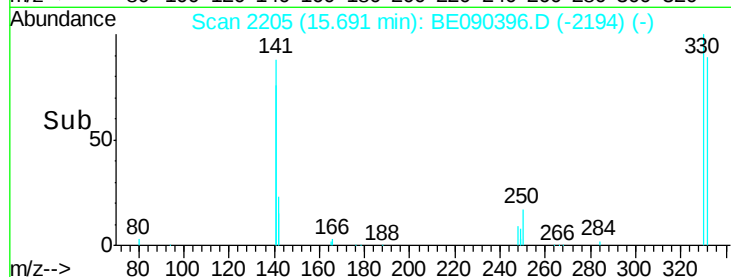
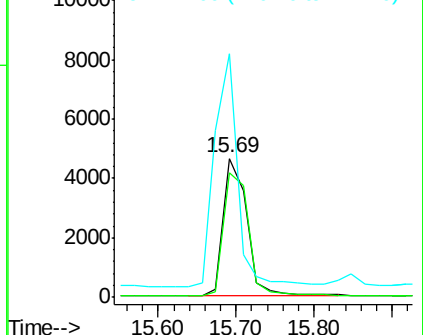
141 164.4 114.4 171.6



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



#14

2-Fluorobiphenyl

Concen: 5.82 ng

RT: 12.82 min Scan# 1828

Delta R.T. -0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

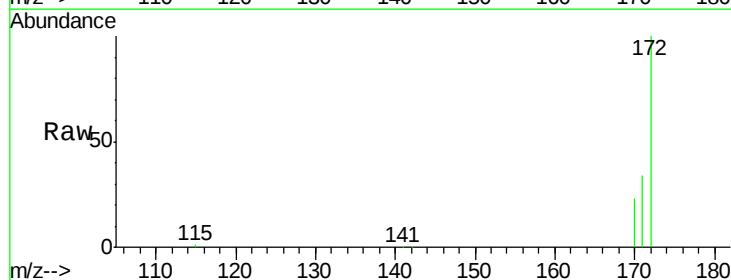
Tgt Ion:172 Resp: 72850

Ion Ratio Lower Upper

172 100

171 33.9 28.5 42.7

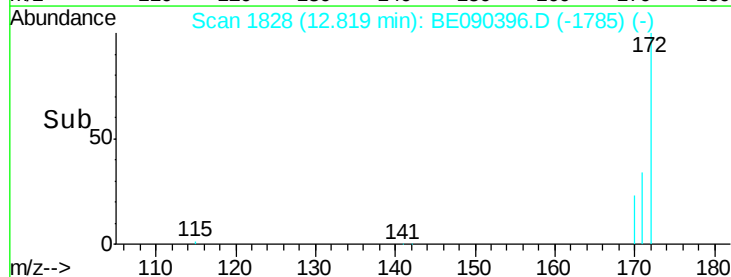
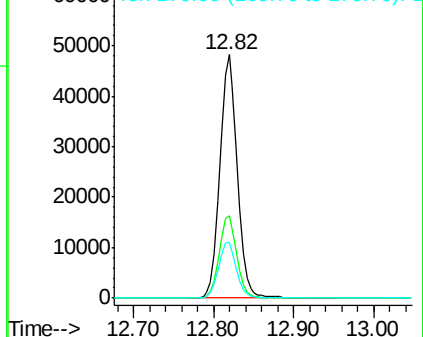
170 23.0 19.8 29.8



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

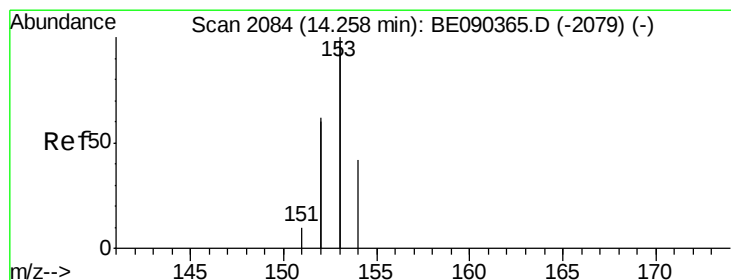
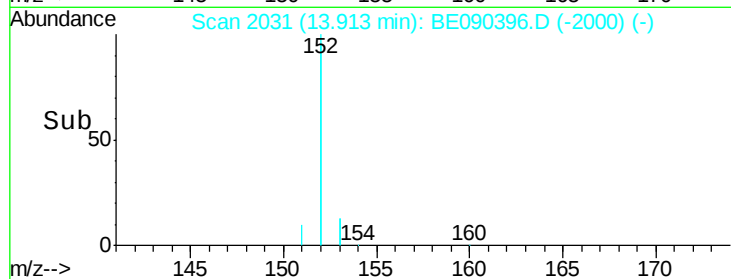
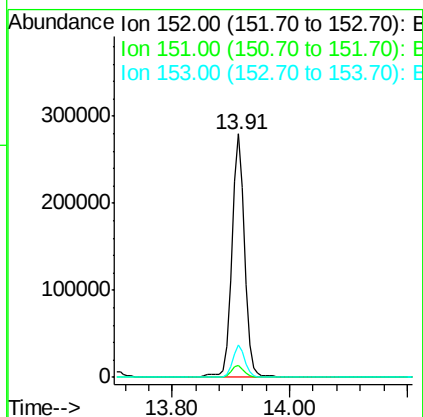
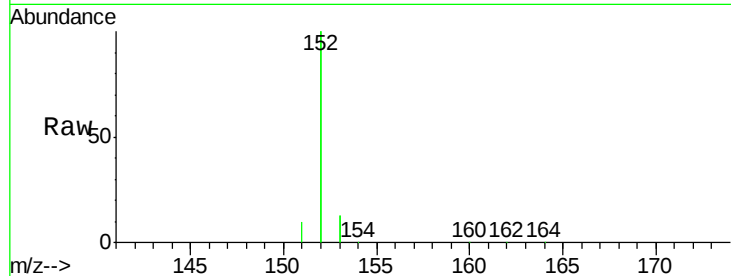




#15  
Acenaphthylene  
Concen: 5.63 ng  
RT: 13.91 min Scan# 2031  
Delta R.T. -0.00 min  
Lab File: BE090396.D  
Acq: 7 Aug 2015 14:14

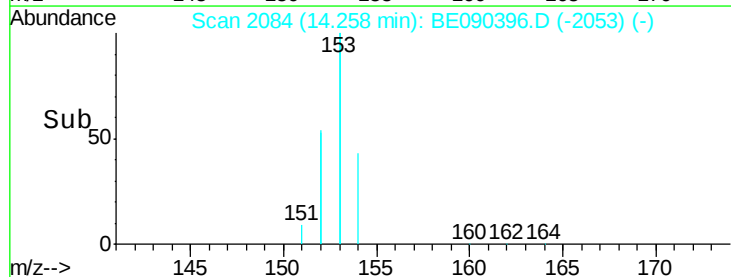
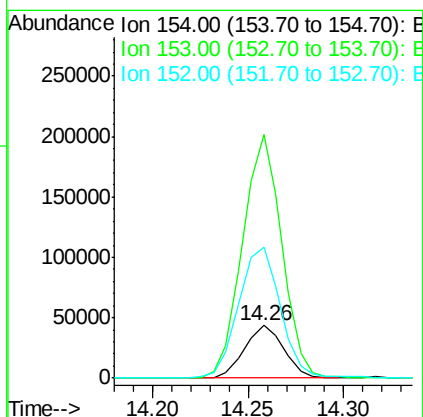
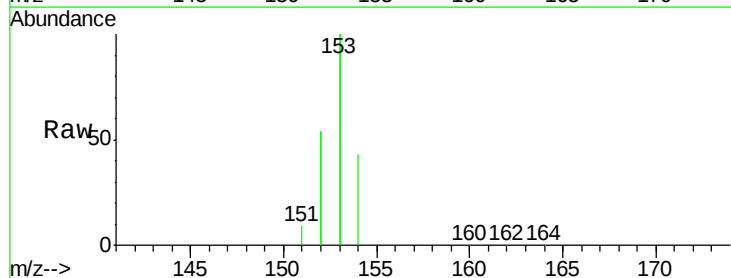
Instrument :  
BNA\_E  
ClientSampleId :  
PB84854BS

Tgt Ion:152 Resp: 414691  
Ion Ratio Lower Upper  
152 100  
151 4.8 3.8 5.8  
153 13.0 10.3 15.5



#16  
Acenaphthene  
Concen: 5.42 ng  
RT: 14.26 min Scan# 2084  
Delta R.T. -0.00 min  
Lab File: BE090396.D  
Acq: 7 Aug 2015 14:14

Tgt Ion:154 Resp: 62101  
Ion Ratio Lower Upper  
154 100  
153 464.6 376.2 564.2  
152 265.2 235.0 352.4

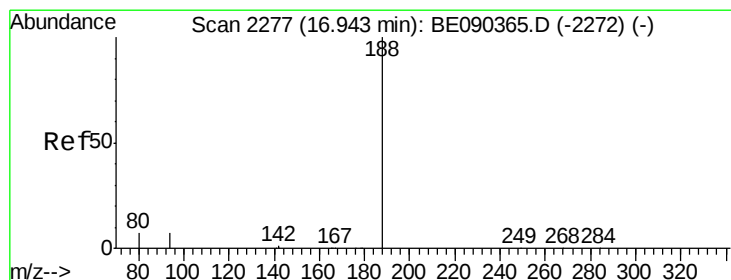
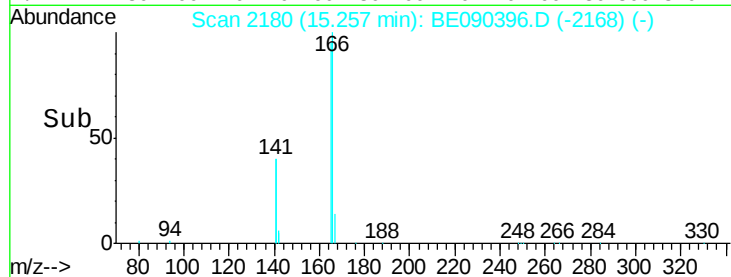
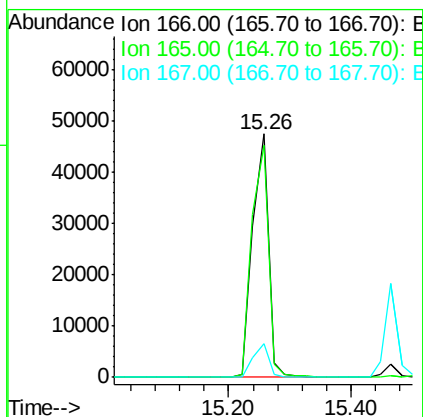
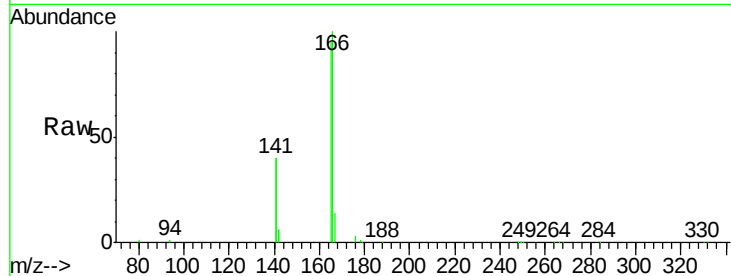




#17  
**Fluorene**  
 Concen: 5.72 ng  
 RT: 15.26 min Scan# 2180  
 Delta R.T. 0.00 min  
 Lab File: BE090396.D  
 Acq: 7 Aug 2015 14:14

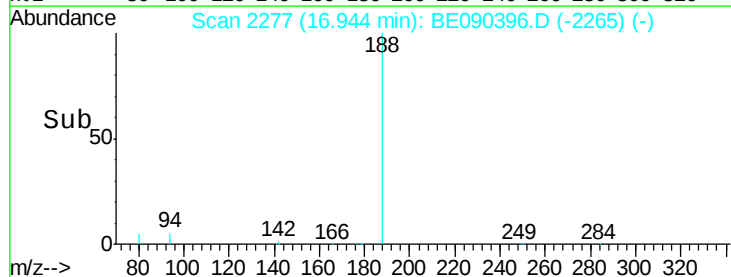
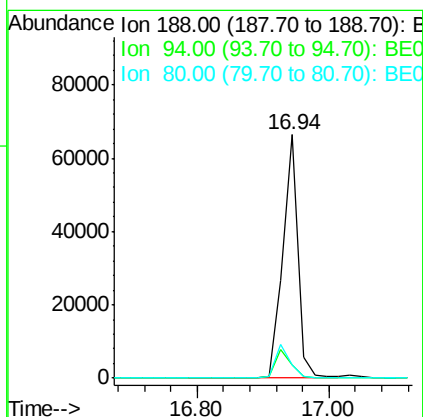
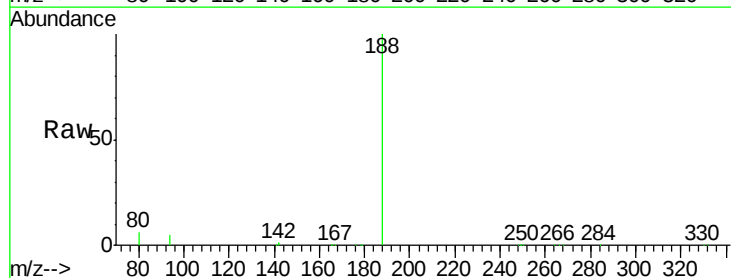
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB84854BS

Tgt Ion:166 Resp: 85040  
 Ion Ratio Lower Upper  
 166 100  
 165 99.7 81.5 122.3  
 167 13.6 11.4 17.0



#18  
**Phenanthrene-d10**  
 Concen: 5.00 ng  
 RT: 16.94 min Scan# 2277  
 Delta R.T. 0.00 min  
 Lab File: BE090396.D  
 Acq: 7 Aug 2015 14:14

Tgt Ion:188 Resp: 104732  
 Ion Ratio Lower Upper  
 188 100  
 94 5.5 5.7 8.5#  
 80 5.6 5.8 8.8#

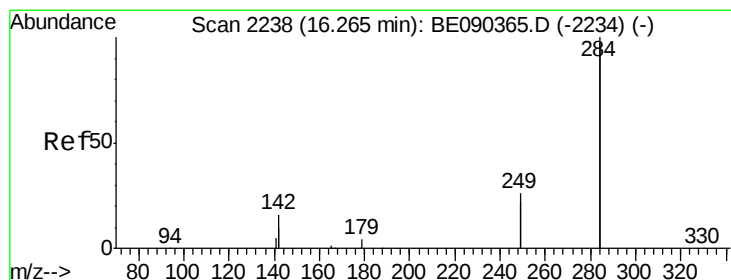
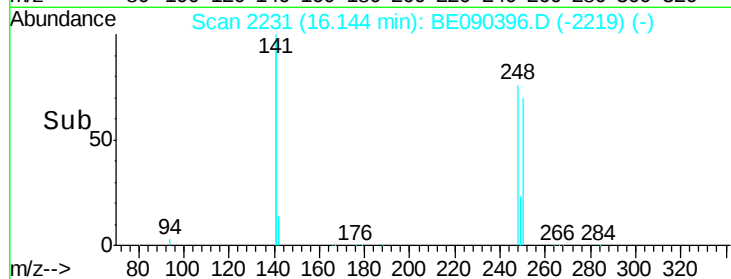
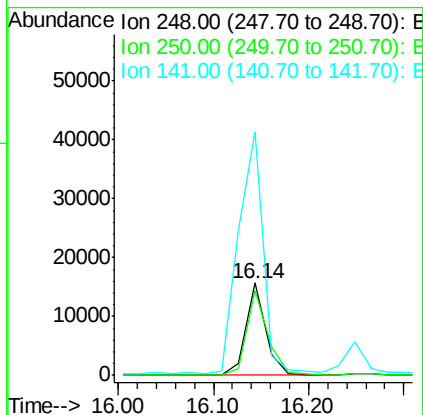
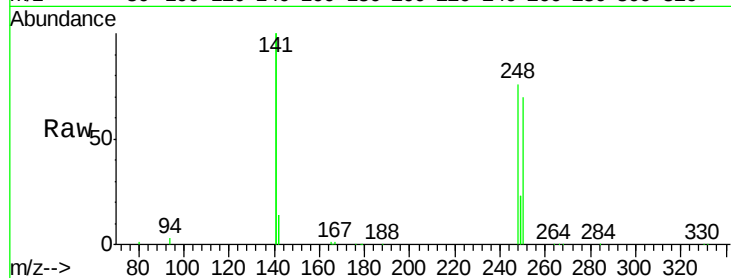




#19  
4-Bromophenyl-phenylether  
Concen: 5.55 ng  
RT: 16.14 min Scan# 2231  
Delta R.T. 0.00 min  
Lab File: BE090396.D  
Acq: 7 Aug 2015 14:14

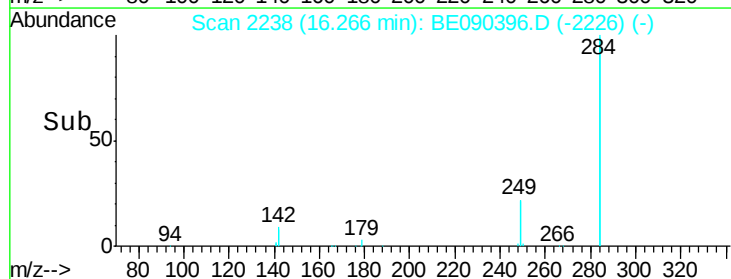
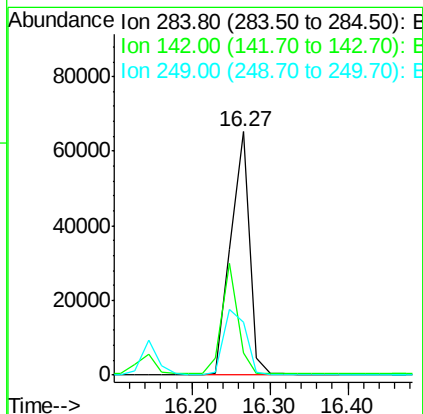
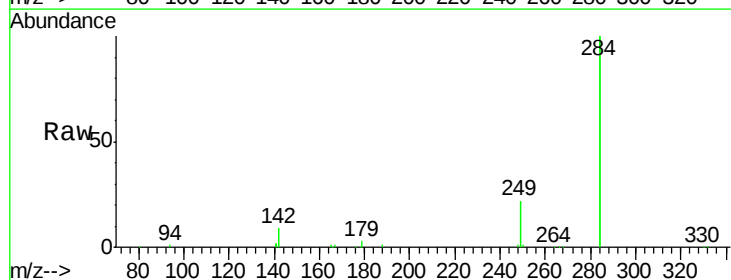
Instrument :  
BNA\_E  
ClientSampled :  
PB84854BS

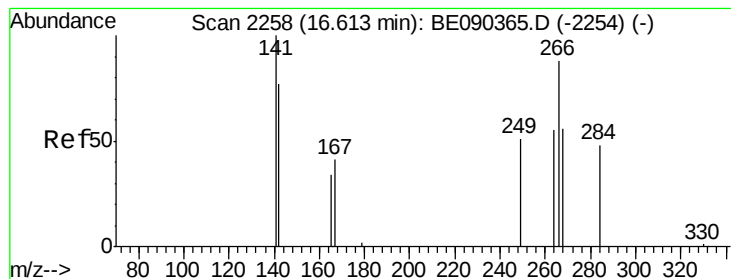
Tgt Ion:248 Resp: 22605  
Ion Ratio Lower Upper  
248 100  
250 96.7 79.0 118.6  
141 320.8 239.5 359.3



#20  
Hexachlorobenzene  
Concen: 5.16 ng  
RT: 16.27 min Scan# 2238  
Delta R.T. 0.00 min  
Lab File: BE090396.D  
Acq: 7 Aug 2015 14:14

Tgt Ion:284 Resp: 108532  
Ion Ratio Lower Upper  
284 100  
142 38.6 30.1 45.1  
249 31.5 25.7 38.5





#21

Pentachlorophenol

Concen: 8.46 ng

RT: 16.60 min Scan# 2257

Delta R.T. -0.02 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA\_E

ClientSampleId :

PB84854BS

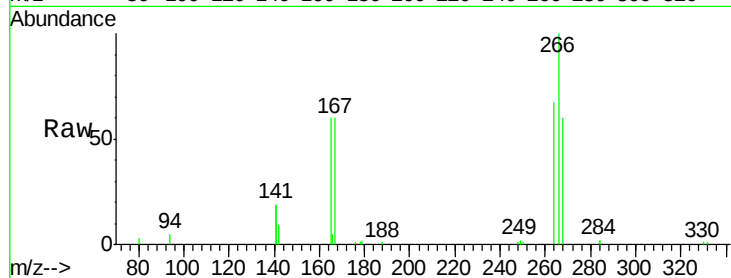
Tgt Ion:266 Resp: 14673

Ion Ratio Lower Upper

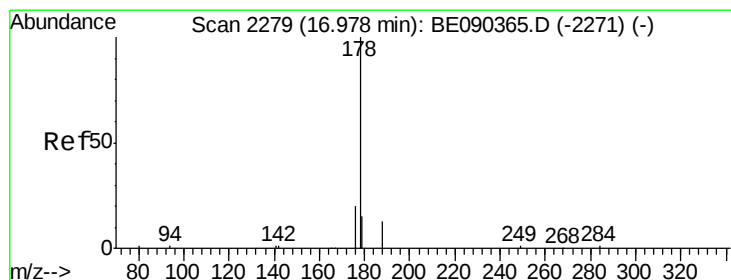
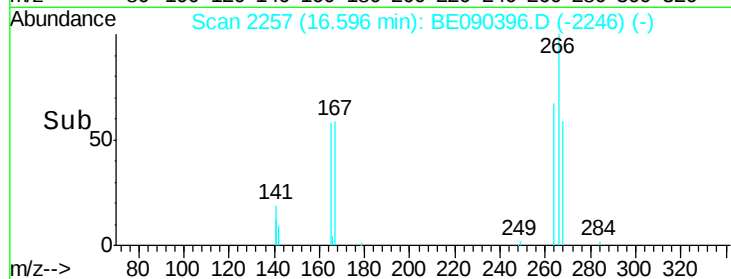
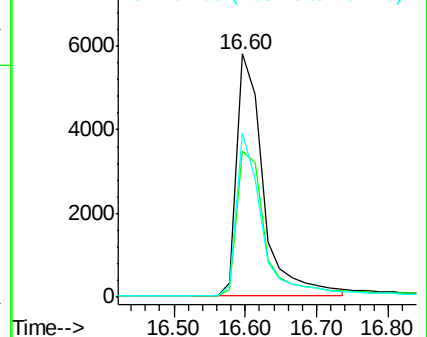
266 100

268 59.9 58.5 87.7

264 67.4 56.0 84.0



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



#22

Phenanthrene

Concen: 5.63 ng

RT: 16.98 min Scan# 2279

Delta R.T. 0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

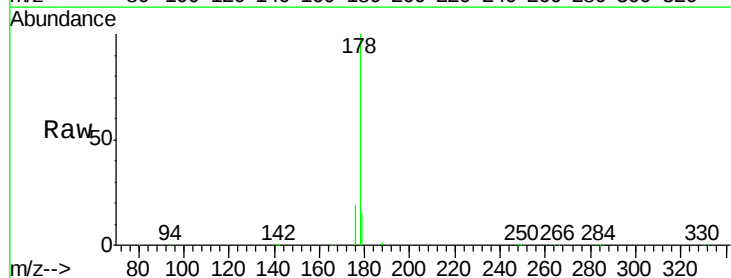
Tgt Ion:178 Resp: 147645

Ion Ratio Lower Upper

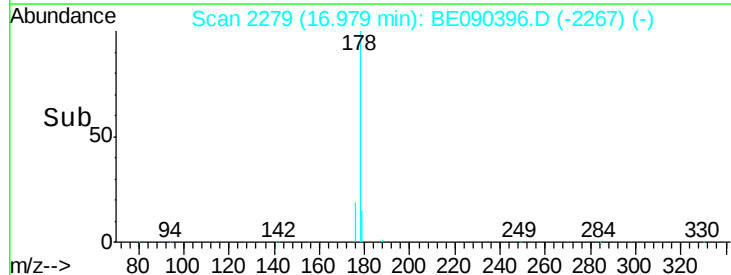
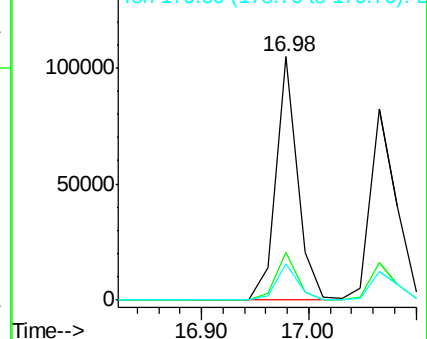
178 100

176 19.3 15.4 23.2

179 15.2 12.5 18.7



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

Anthracene

Concen: 6.46 ng

RT: 17.07 min Scan# 2284

Delta R.T. -0.02 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA\_E

ClientSampleId :

PB84854BS

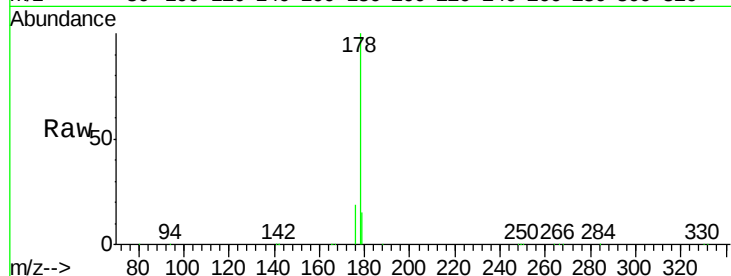
Tgt Ion:178 Resp: 139017

Ion Ratio Lower Upper

178 100

176 18.5 14.9 22.3

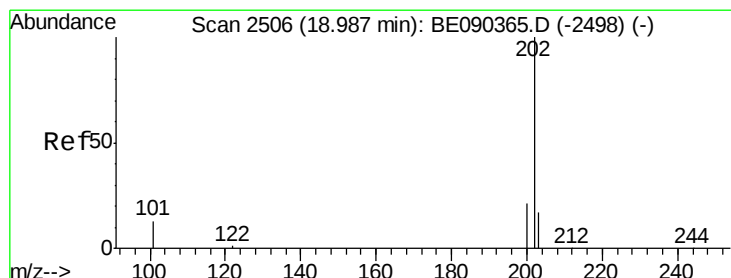
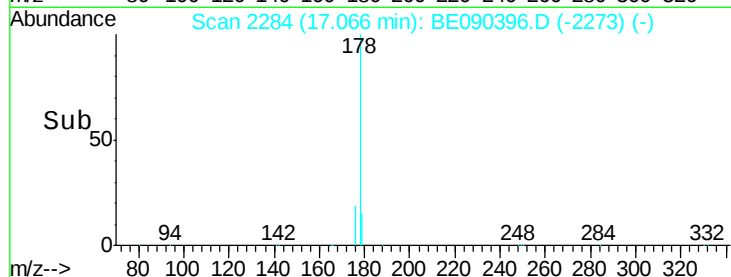
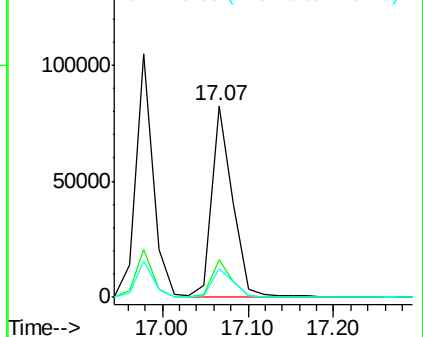
179 15.5 12.2 18.4



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



#24

Fluoranthene

Concen: 6.29 ng

RT: 18.98 min Scan# 2505

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

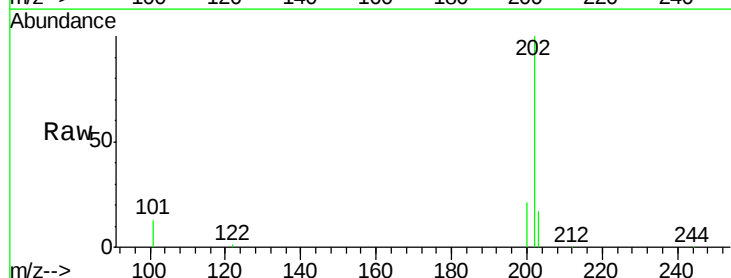
Tgt Ion:202 Resp: 162117

Ion Ratio Lower Upper

202 100

101 13.1 10.3 15.5

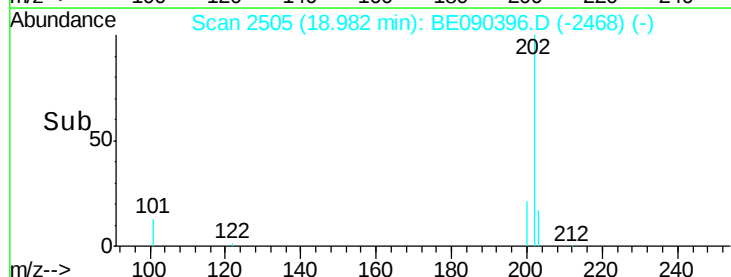
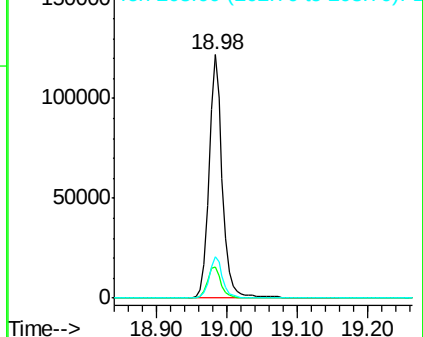
203 17.1 13.7 20.5



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





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.09 min Scan# 2864

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA\_E

ClientSampleId :

PB84854BS

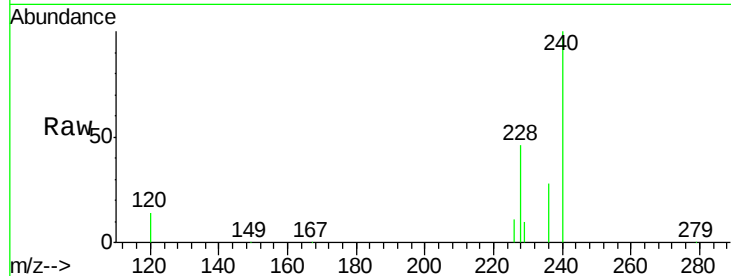
Tgt Ion:240 Resp: 135680

Ion Ratio Lower Upper

240 100

120 14.0 8.3 12.5#

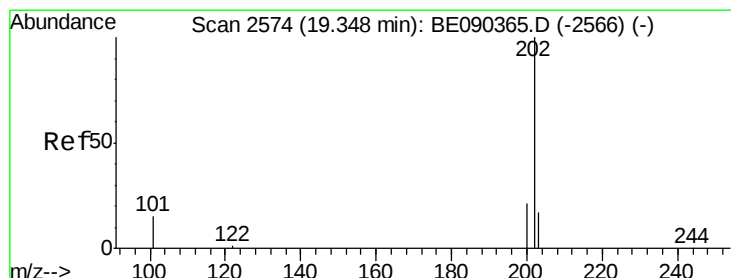
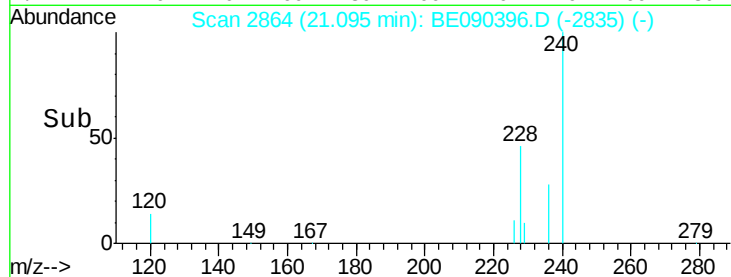
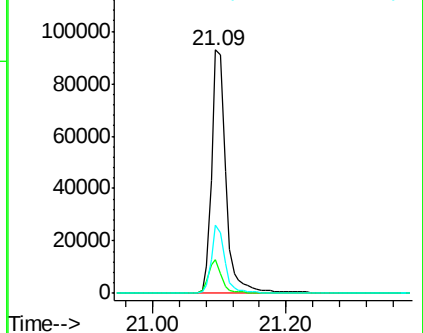
236 27.8 21.0 31.4



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



#26

Pyrene

Concen: 6.15 ng

RT: 19.34 min Scan# 2573

Delta R.T. -0.01 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

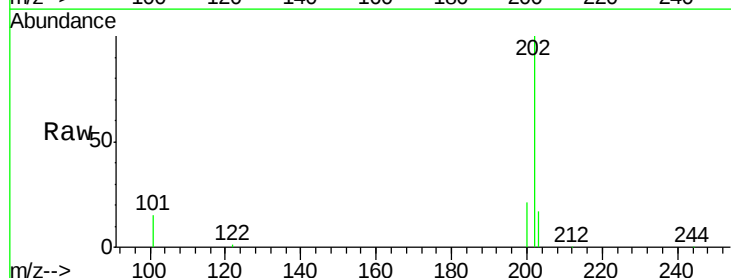
Tgt Ion:202 Resp: 180920

Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

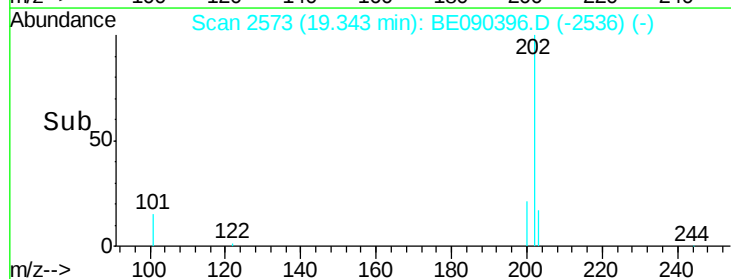
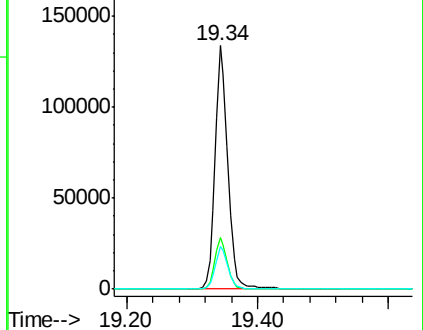
203 17.9 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

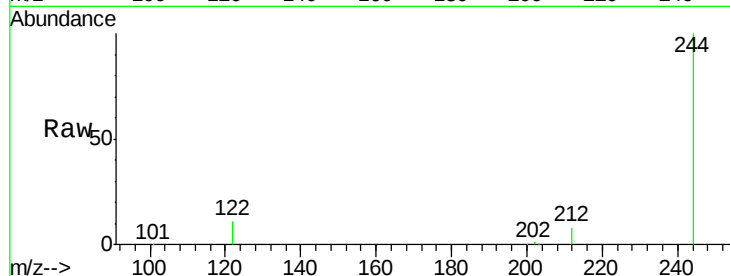




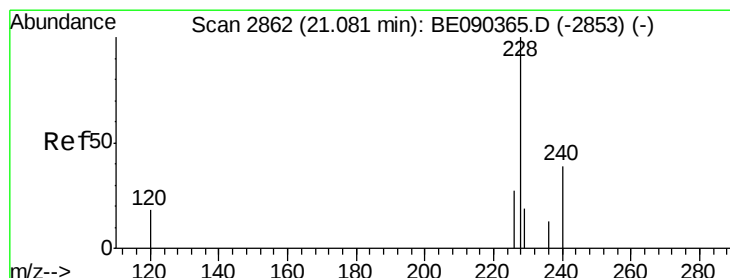
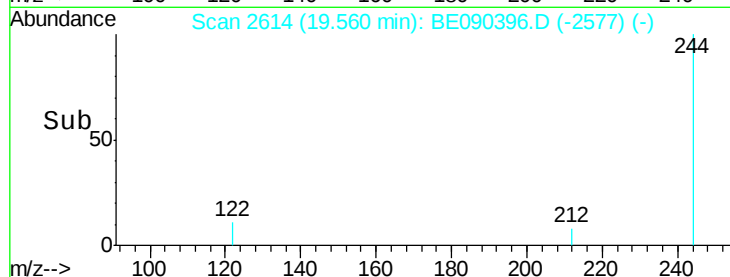
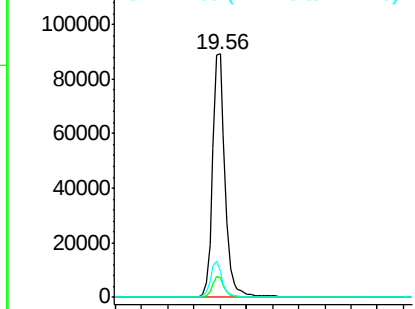
#27  
 Terphenyl-d14  
 Concen: 5.99 ng  
 RT: 19.56 min Scan# 2614  
 Delta R.T. -0.01 min  
 Lab File: BE090396.D  
 Acq: 7 Aug 2015 14:14

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB84854BS

Tgt Ion:244 Resp: 119674  
 Ion Ratio Lower Upper  
 244 100  
 212 7.8 6.6 9.8  
 122 10.9 10.2 15.4

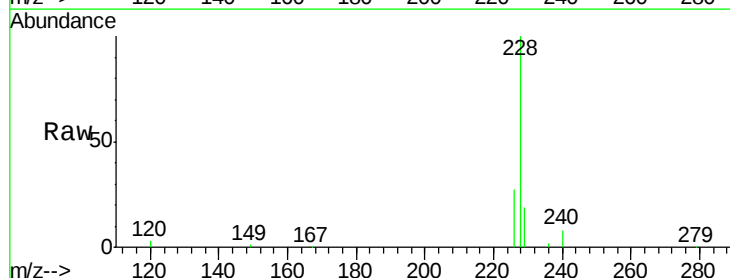


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E

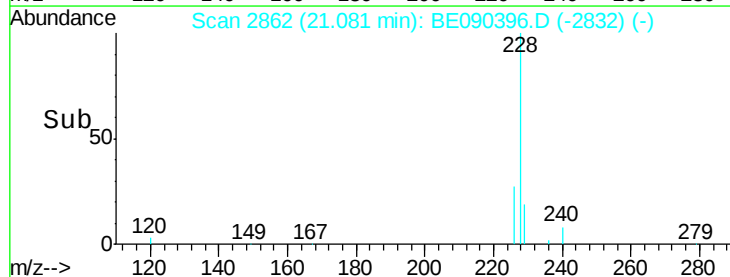
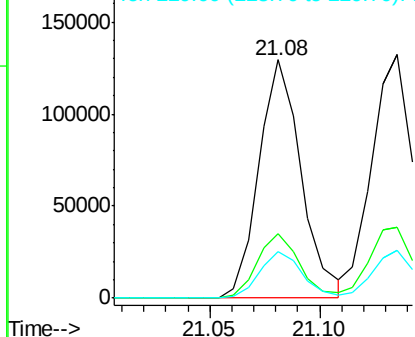


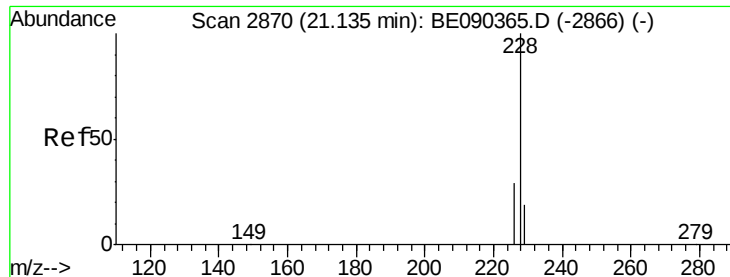
#28  
 Benzo(a)anthracene  
 Concen: 5.80 ng  
 RT: 21.08 min Scan# 2862  
 Delta R.T. 0.00 min  
 Lab File: BE090396.D  
 Acq: 7 Aug 2015 14:14

Tgt Ion:228 Resp: 174316  
 Ion Ratio Lower Upper  
 228 100  
 226 27.2 21.9 32.9  
 229 19.4 15.4 23.0



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





#29

Chrysene

Concen: 5.26 ng

RT: 21.14 min Scan# 2870

Delta R.T. 0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA\_E

ClientSampleId :

PB84854BS

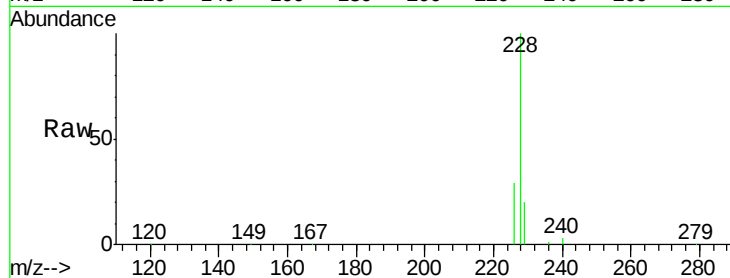
Tgt Ion:228 Resp: 191134

Ion Ratio Lower Upper

228 100

226 29.2 23.1 34.7

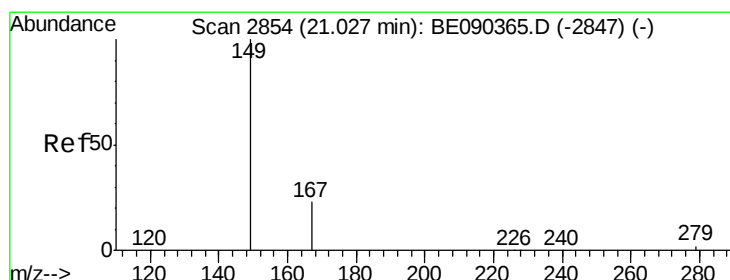
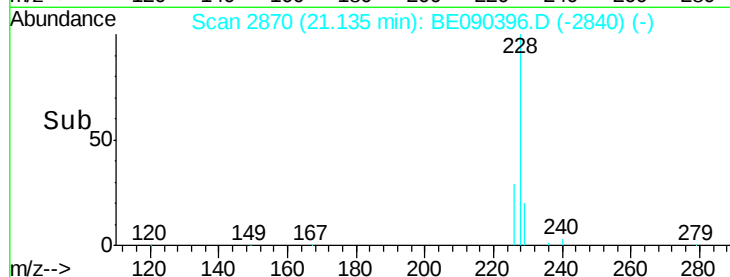
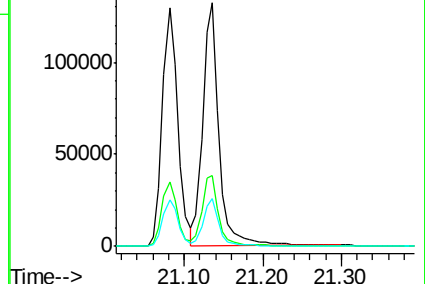
229 19.8 15.8 23.8



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: 4.37 ng

RT: 21.03 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

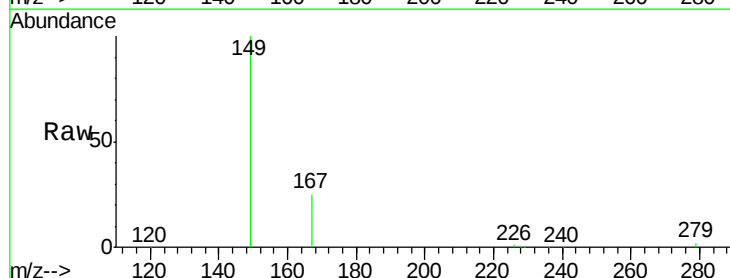
Tgt Ion:149 Resp: 45072

Ion Ratio Lower Upper

149 100

167 25.6 19.8 29.8

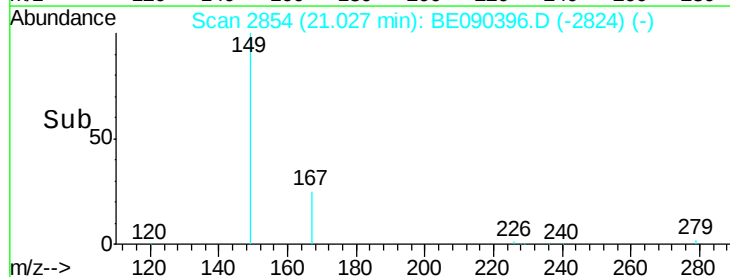
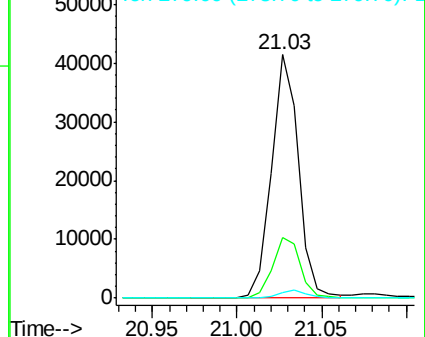
279 3.0 2.4 3.6



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#31

Indeno(1,2,3-cd)pyrene

Concen: 4.42 ng

RT: 25.79 min Scan# 3828

Delta R.T. 0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA\_E

ClientSampleId :

PB84854BS

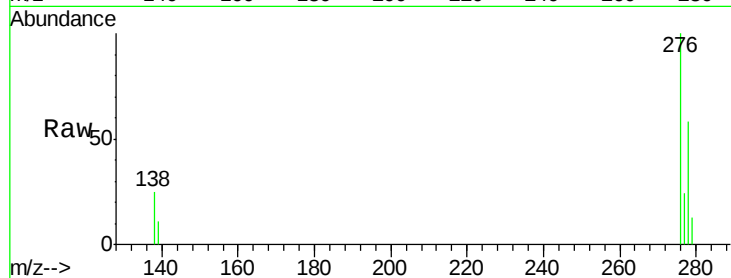
Tgt Ion: 276 Resp: 144099

Ion Ratio Lower Upper

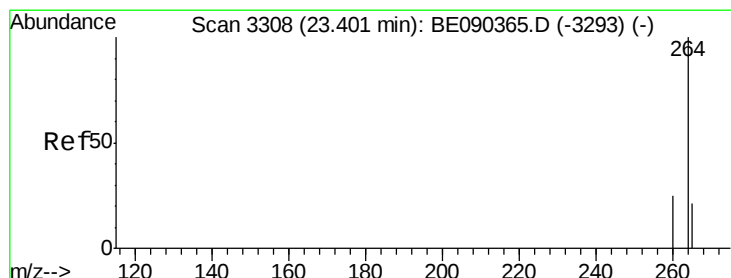
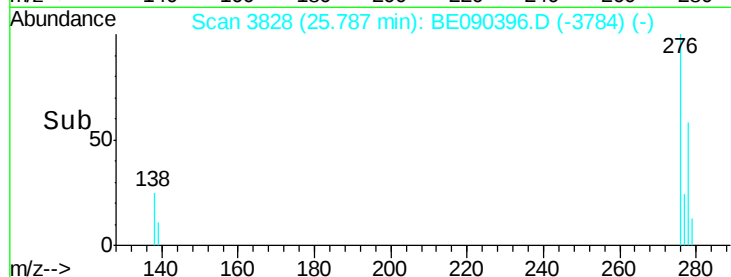
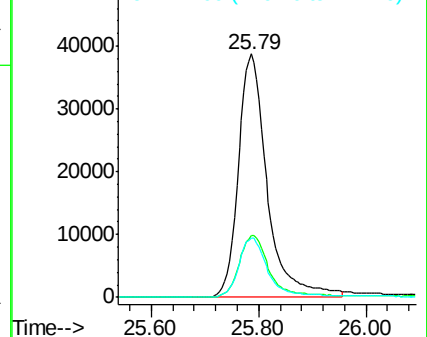
276 100

138 26.4 18.8 28.2

277 24.8 18.2 27.4



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



#32

Perylene-d12

Concen: 5.00 ng

RT: 23.40 min Scan# 3308

Delta R.T. 0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

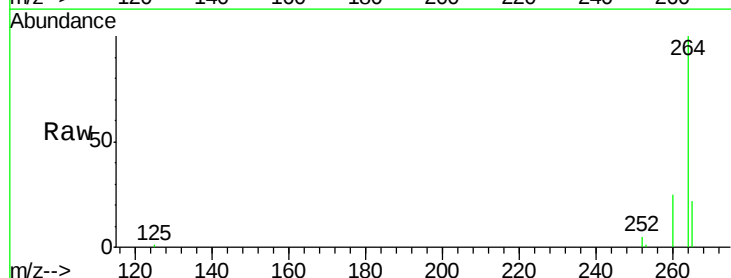
Tgt Ion: 264 Resp: 109431

Ion Ratio Lower Upper

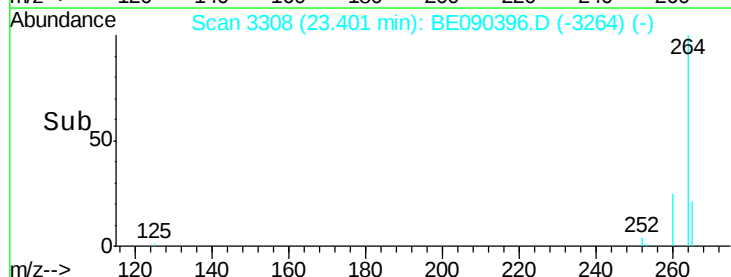
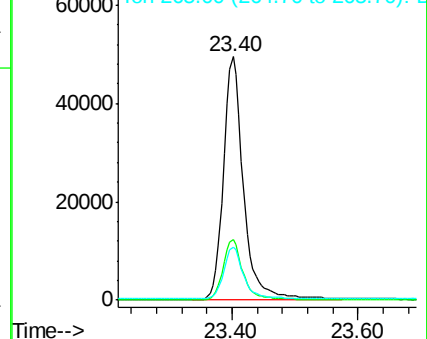
264 100

260 24.7 20.1 30.1

265 21.7 17.2 25.8



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





#33

Benzo(b)fluoranthene

Concen: 5.87 ng

RT: 22.70 min Scan# 3154

Delta R.T. -0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

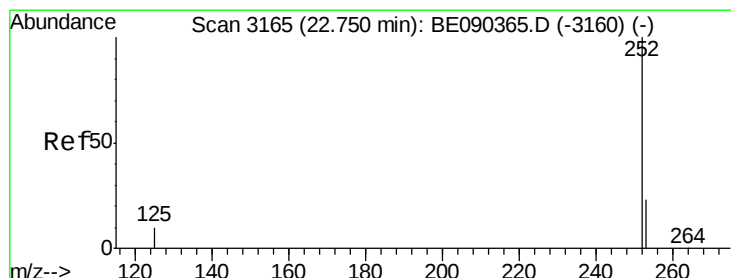
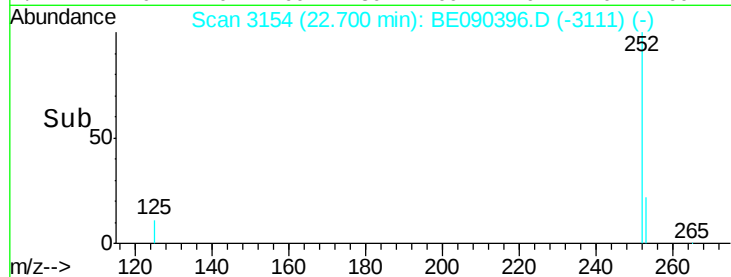
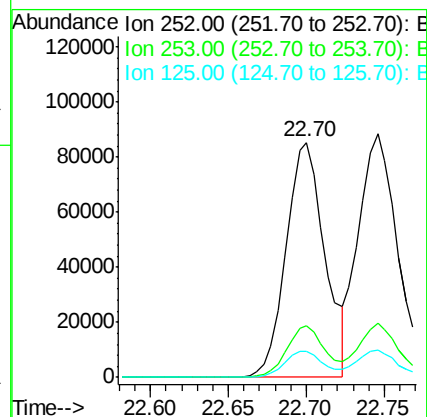
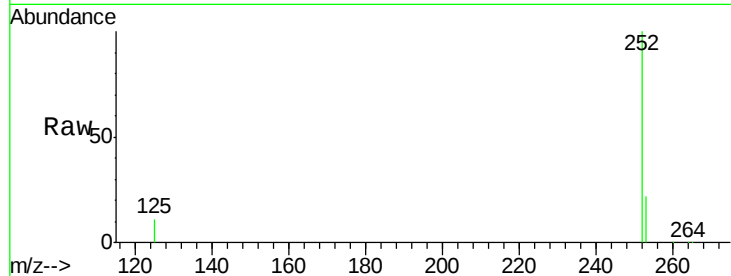
BNA\_E

ClientSampleId :

PB84854BS

Tgt Ion:252 Resp: 146142

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 21.8  | 18.1  | 27.1  |
| 125 | 10.9  | 9.4   | 14.2  |



#34

Benzo(k)fluoranthene

Concen: 5.51 ng

RT: 22.75 min Scan# 3164

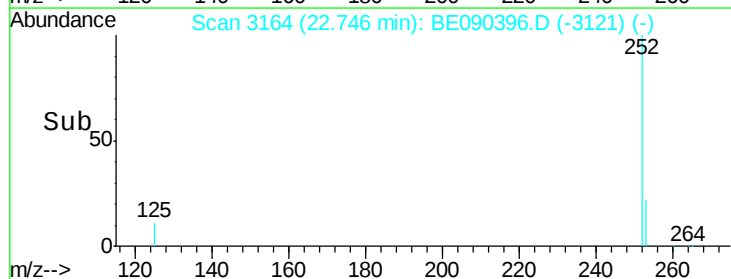
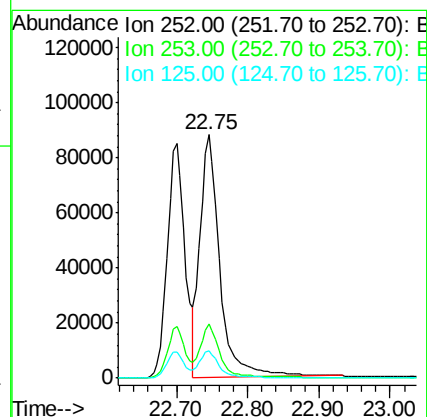
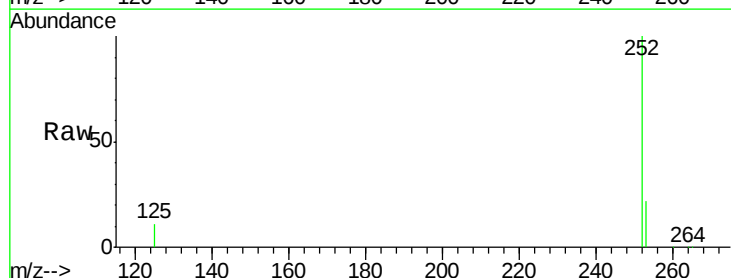
Delta R.T. -0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Tgt Ion:252 Resp: 168054

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.0  | 18.1  | 27.1  |
| 125 | 11.0  | 9.1   | 13.7  |





#35

Benzo(a)pyrene

Concen: 5.51 ng

RT: 23.30 min Scan# 3285

Delta R.T. 0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

Instrument :

BNA\_E

ClientSampleId :

PB84854BS

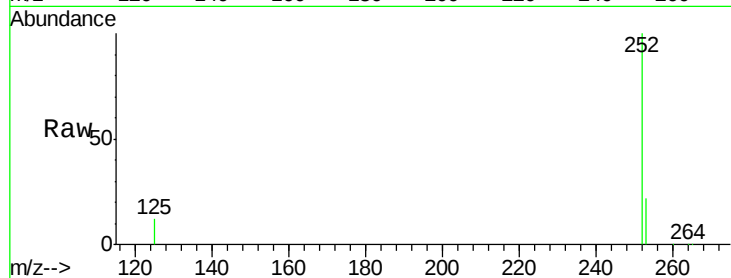
Tgt Ion:252 Resp: 129503

Ion Ratio Lower Upper

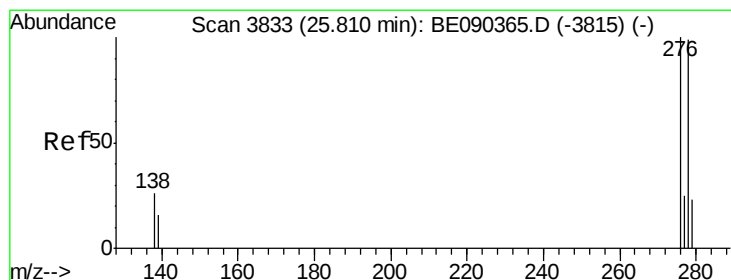
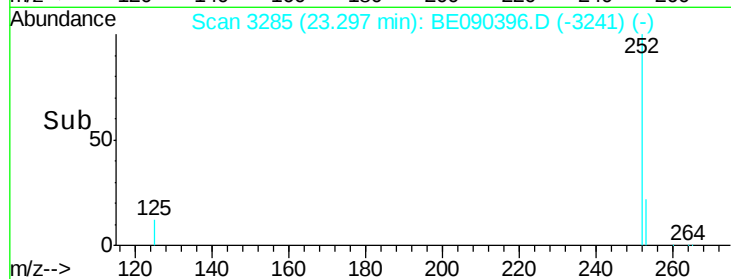
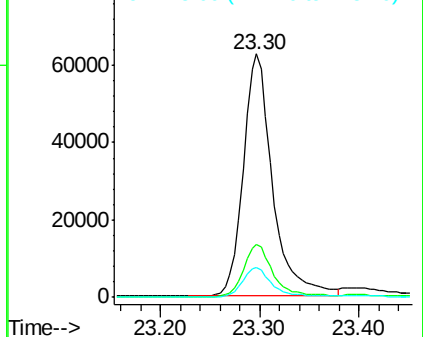
252 100

253 21.9 17.6 26.4

125 12.1 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#36

Dibenzo(a,h)anthracene

Concen: 5.04 ng

RT: 25.80 min Scan# 3832

Delta R.T. -0.00 min

Lab File: BE090396.D

Acq: 7 Aug 2015 14:14

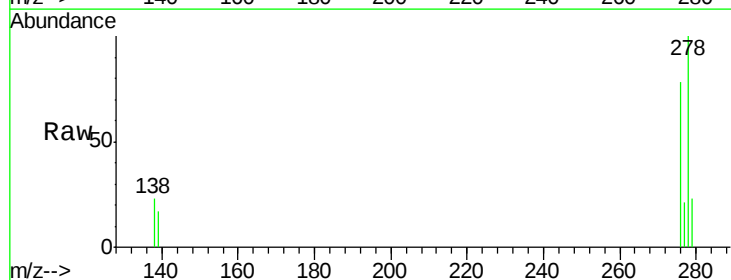
Tgt Ion:278 Resp: 115675

Ion Ratio Lower Upper

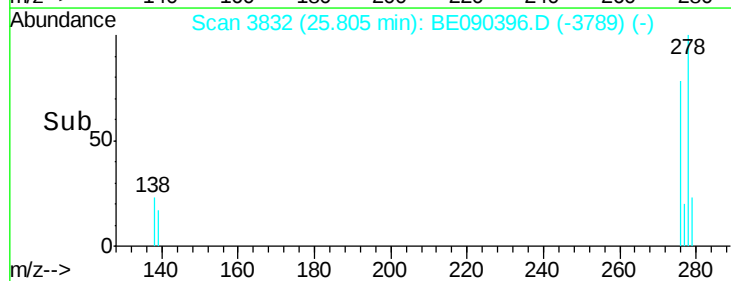
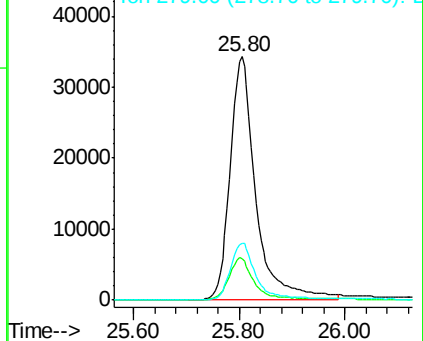
278 100

139 16.8 14.2 21.4

279 23.5 20.1 30.1



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





#37

Benzo(g,h,i)perylene

Concen: 6.32 ng

RT: 26.52 min Scan# 3988

Delta R.T. -0.00 min

Lab File: BE090396.D

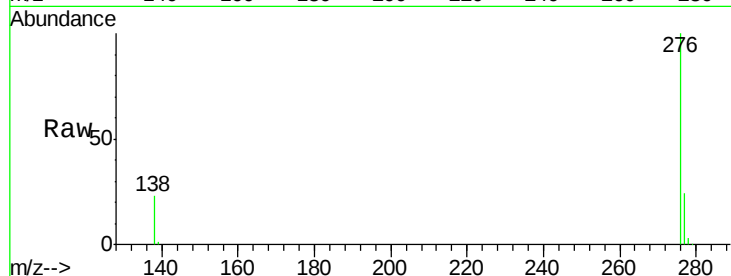
Acq: 7 Aug 2015 14:14

Instrument :

BNA\_E

ClientSampleId :

PB84854BS



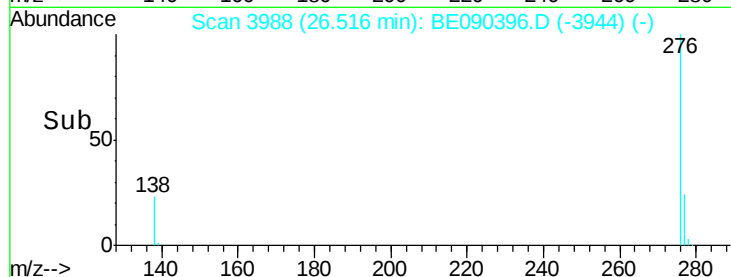
Tgt Ion: 276 Resp: 127704

Ion Ratio Lower Upper

276 100

277 23.7 20.1 30.1

138 23.0 18.1 27.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

