

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE050916\  
 Data File : BE091755.D  
 Acq On : 9 May 2016 13:21  
 Operator : UM/SJ  
 Sample : PB90335BSD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB90335BSD

Quant Time: May 10 00:57:18 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE042616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 26 16:09:46 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 37949    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.57 | 136  | 185315   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.40 | 164  | 114814   | 5.00 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.15 | 188  | 306164   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.31 | 240  | 285487   | 5.00 | ng    | 0.00     |
| 35) Perylene-d12          | 23.75 | 264  | 284659   | 5.00 | ng    | 0.00     |

|                             |       |     |        |      |    |      |
|-----------------------------|-------|-----|--------|------|----|------|
| System Monitoring Compounds |       |     |        |      |    |      |
| 4) 2-Fluorophenol           | 5.39  | 112 | 57908  | 6.21 | ng | 0.00 |
| 5) Phenol-d6                | 6.95  | 99  | 84814  | 6.86 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.95  | 82  | 38058  | 3.18 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.90 | 330 | 26505  | 6.24 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.04 | 172 | 114965 | 3.54 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.76 | 244 | 184642 | 4.15 | ng | 0.00 |

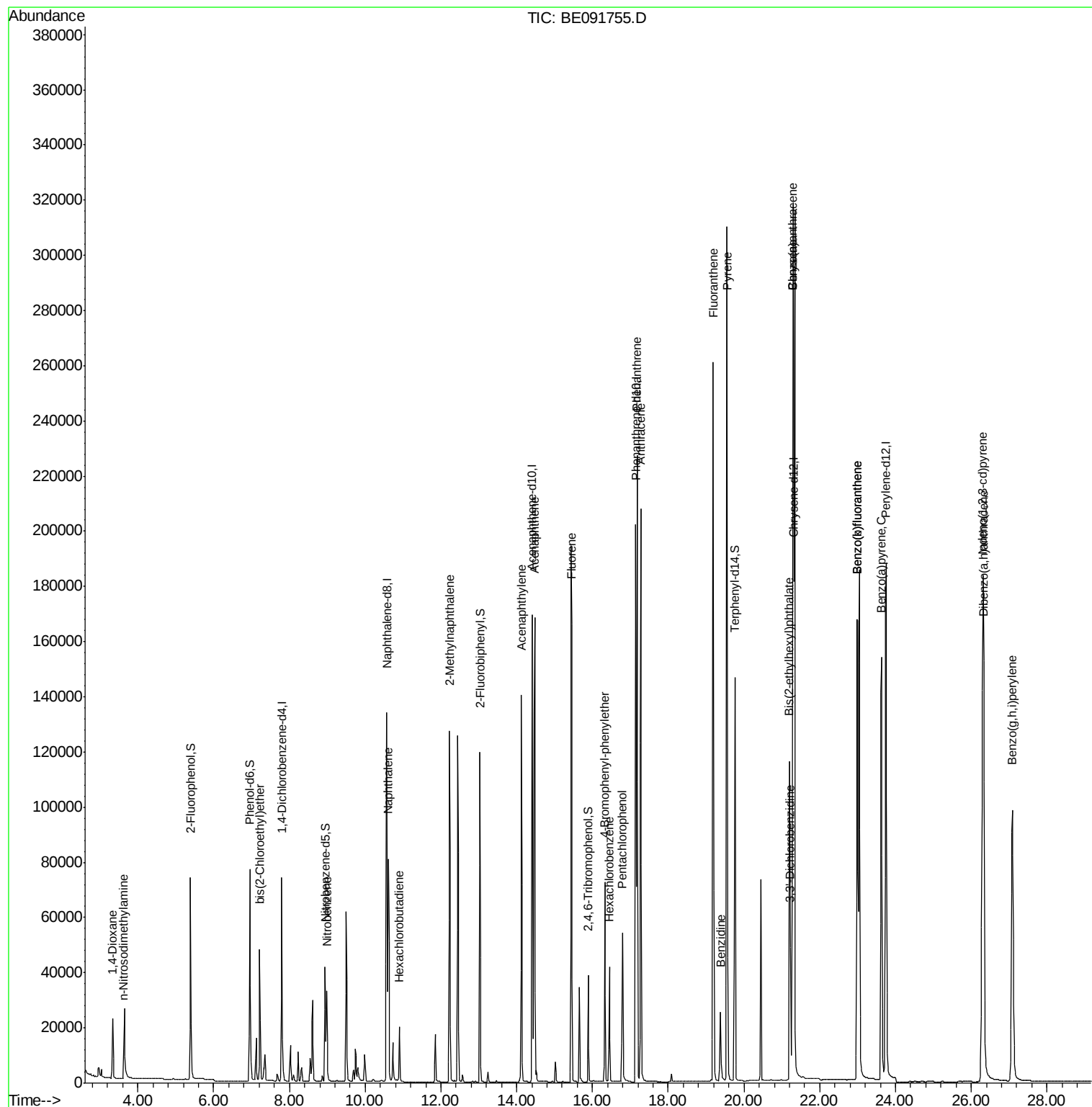
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.33  | 88  | 13896  | 3.11   | ng | 92   |
| 3) n-Nitrosodimethylamine      | 3.63  | 42  | 21827  | 3.17   | ng | # 94 |
| 6) bis(2-Chloroethyl)ether     | 7.21  | 93  | 36345  | 3.34   | ng | # 76 |
| 9) Nitrobenzene                | 8.99  | 77  | 40954  | 3.27   | ng | 95   |
| 10) Naphthalene                | 10.61 | 128 | 129937 | 3.47   | ng | 97   |
| 11) Hexachlorobutadiene        | 10.90 | 225 | 21230  | 3.84   | ng | 98   |
| 12) 2-Methylnaphthalene        | 12.23 | 142 | 93768  | 3.90   | ng | 98   |
| 16) Acenaphthylene             | 14.12 | 152 | 172094 | 3.90   | ng | # 86 |
| 17) Acenaphthene               | 14.47 | 154 | 105053 | 3.67   | ng | 95   |
| 18) Fluorene                   | 15.46 | 166 | 132587 | 3.72   | ng | 99   |
| 20) 4-Bromophenyl-phenylether  | 16.33 | 248 | 37829  | 3.43   | ng | 93   |
| 21) Hexachlorobenzene          | 16.45 | 284 | 38953  | 3.54   | ng | 99   |
| 22) Pentachlorophenol          | 16.79 | 266 | 37150  | 6.26   | ng | 88   |
| 23) Phenanthrene               | 17.18 | 178 | 237154 | 3.41   | ng | 99   |
| 24) Anthracene                 | 17.28 | 178 | 228365 | 3.64   | ng | 99   |
| 25) Fluoranthene               | 19.19 | 202 | 271345 | 3.73   | ng | # 96 |
| 27) Benzidine                  | 19.38 | 184 | 40002  | 1.88   | ng | # 76 |
| 28) Pyrene                     | 19.55 | 202 | 299603 | 4.64   | ng | 99   |
| 30) Benzo(a)anthracene         | 21.29 | 228 | 267841 | 3.84   | ng | 92   |
| 31) 3,3'-Dichlorobenzidine     | 21.22 | 252 | 37590  | 1.06   | ng | # 84 |
| 32) Chrysene                   | 21.29 | 228 | 267818 | 3.70   | ng | # 88 |
| 33) Bis(2-ethylhexyl)phthalate | 21.20 | 149 | 142627 | 6.75   | ng | # 88 |
| 34) Indeno(1,2,3-cd)pyrene     | 26.30 | 276 | 284931 | 4.42   | ng | 95   |
| 36) Benzo(b)fluoranthene       | 22.99 | 252 | 288034 | 4.32   | ng | # 96 |
| 37) Benzo(k)fluoranthene       | 22.99 | 252 | 288034 | 4.25   | ng | 96   |
| 38) Benzo(a)pyrene             | 23.63 | 252 | 254765 | 4.06   | ng | # 96 |
| 39) Dibenzo(a,h)anthracene     | 26.33 | 278 | 236907 | 3.98   | ng | # 94 |
| 40) Benzo(g,h,i)perylene       | 27.09 | 276 | 242218 | 4.00   | ng | # 94 |

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

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QLast Update : Tue Apr 26 16:09:46 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 300

Delta R.T. -0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

BNA\_E

ClientSampleId :

PB90335BSD

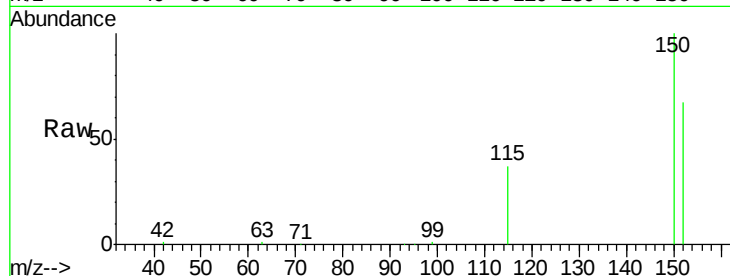
Tgt Ion:152 Resp: 37949

Ion Ratio Lower Upper

152 100

150 149.4 122.6 183.8

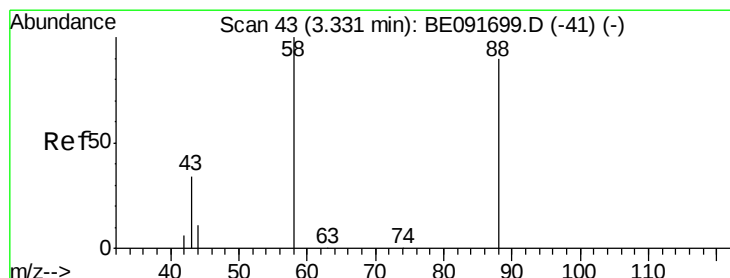
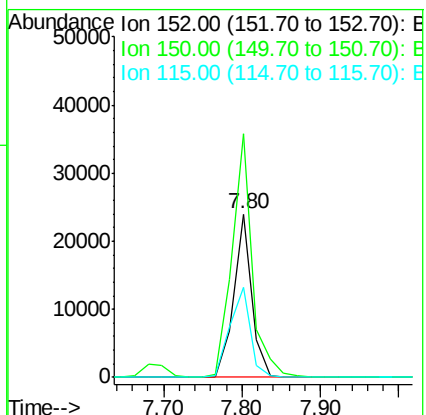
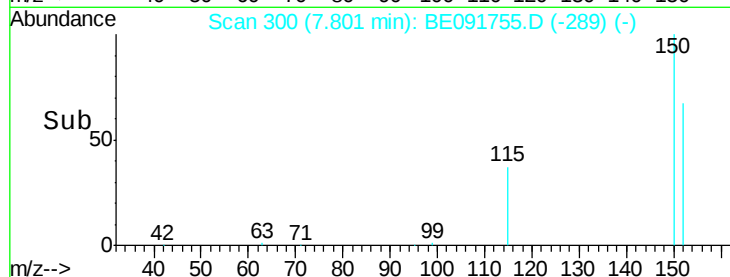
115 55.5 52.8 79.2



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: 3.11 ng

RT: 3.33 min Scan# 43

Delta R.T. 0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

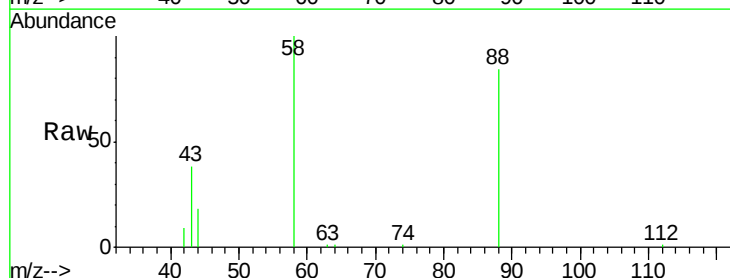
Tgt Ion: 88 Resp: 13896

Ion Ratio Lower Upper

88 100

58 88.8 65.8 98.6

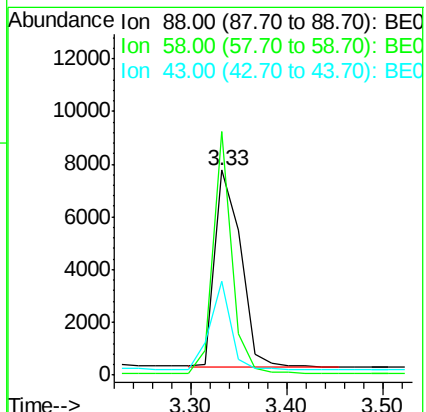
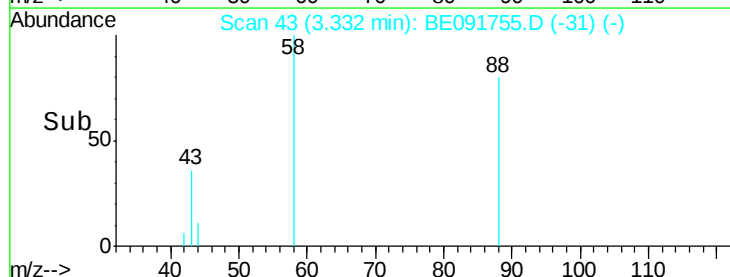
43 36.1 25.3 37.9

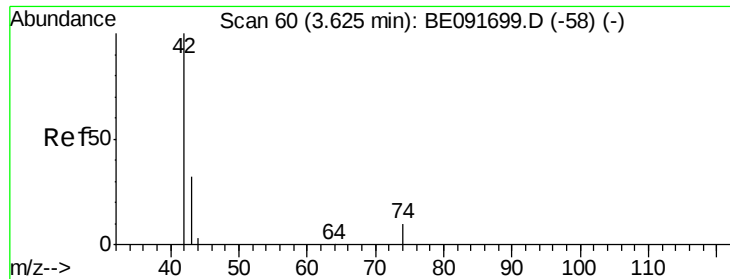


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 3.17 ng

RT: 3.63 min Scan# 60

Delta R.T. 0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

BNA\_E

ClientSampleId :

PB90335BSD

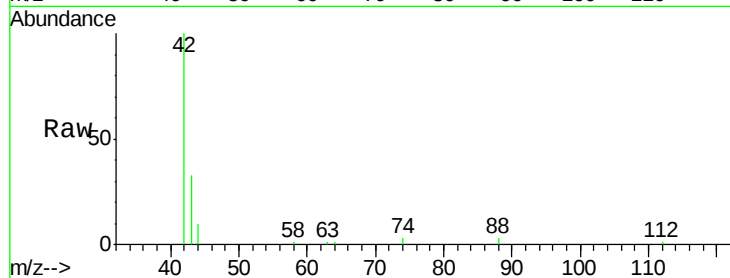
Tgt Ion: 42 Resp: 21827

Ion Ratio Lower Upper

42 100

74 103.8 87.9 131.9

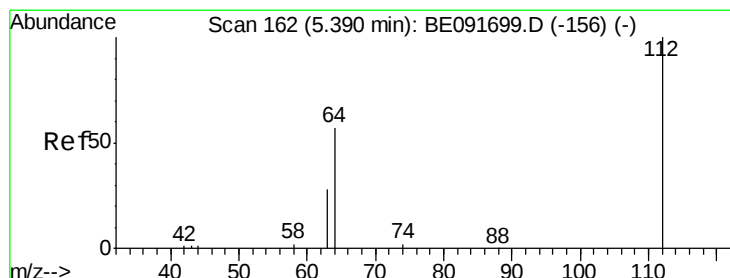
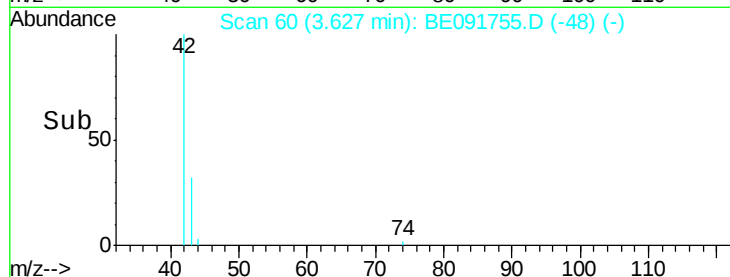
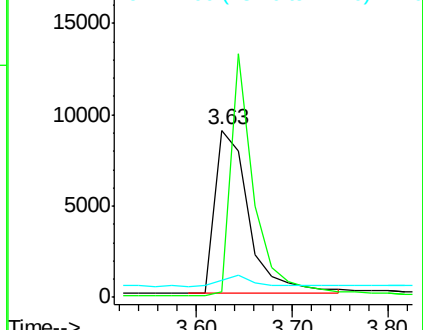
44 6.2 6.6 9.8#



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: 6.21 ng

RT: 5.39 min Scan# 162

Delta R.T. 0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

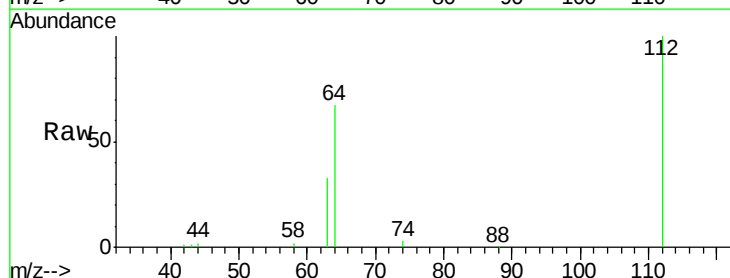
Tgt Ion: 112 Resp: 57908

Ion Ratio Lower Upper

112 100

64 67.0 30.9 46.3#

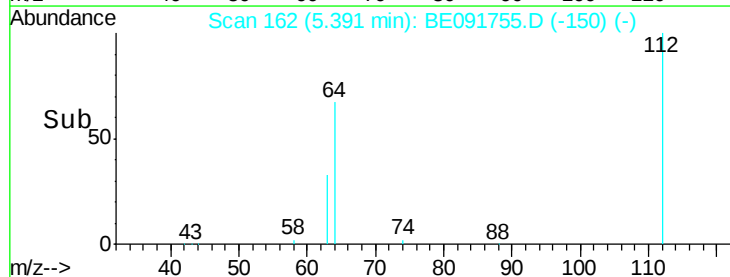
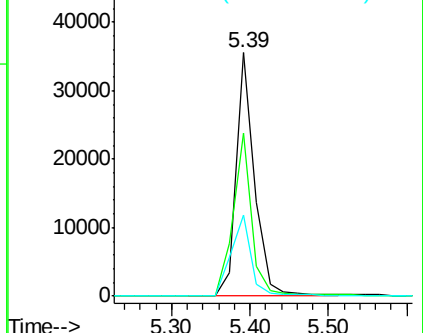
63 35.7 16.7 25.1#

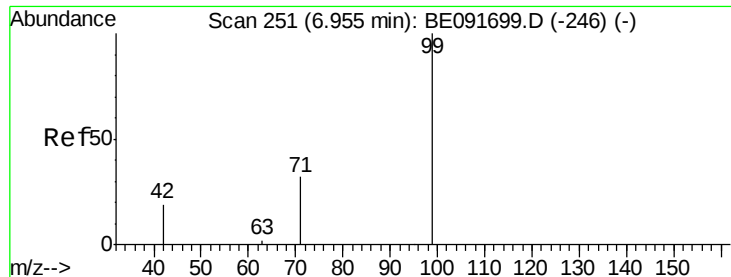


Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 6.86 ng

RT: 6.95 min Scan# 251

Delta R.T. -0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

BNA\_E

ClientSampleId :

PB90335BSD

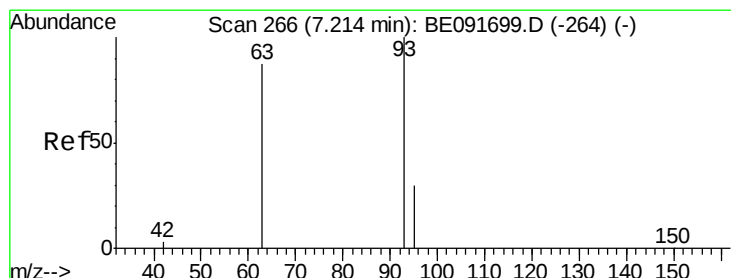
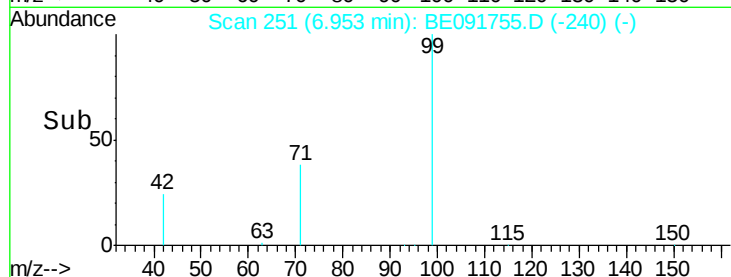
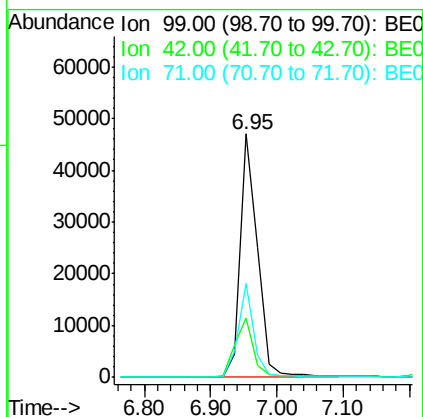
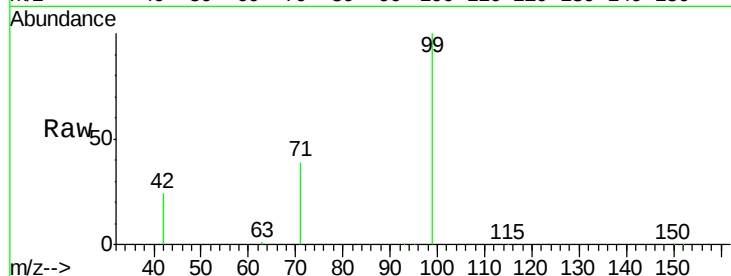
Tgt Ion: 99 Resp: 84814

Ion Ratio Lower Upper

99 100

42 25.0 16.2 24.2#

71 35.3 29.0 43.4



#6

bis(2-Chloroethyl)ether

Concen: 3.34 ng

RT: 7.21 min Scan# 266

Delta R.T. -0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

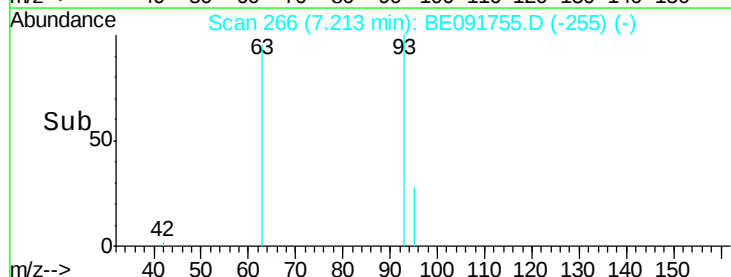
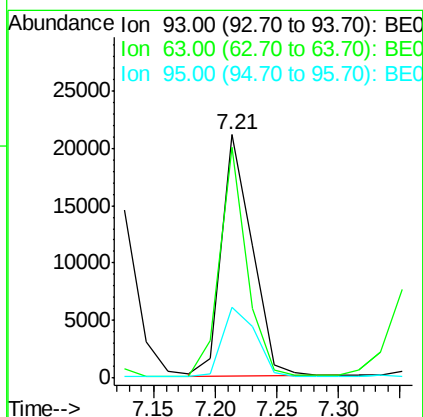
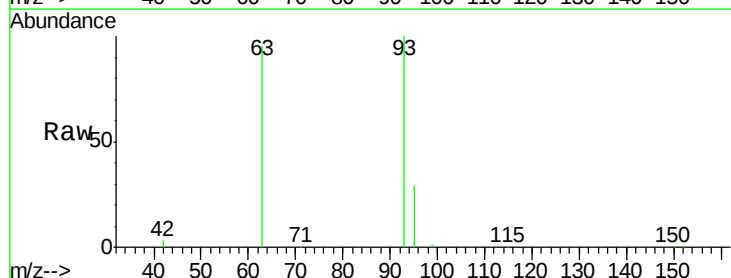
Tgt Ion: 93 Resp: 36345

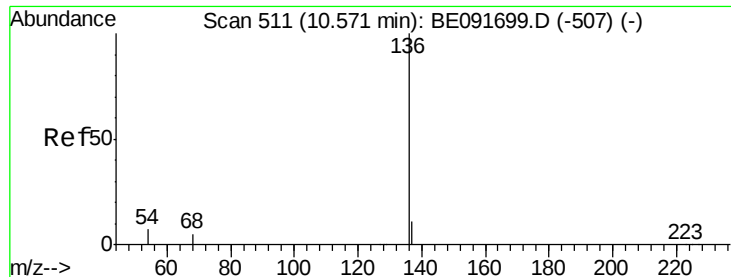
Ion Ratio Lower Upper

93 100

63 85.3 49.5 74.3#

95 32.4 22.2 33.4





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.57 min Scan# 511

Delta R.T. 0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

BNA\_E

ClientSampleId :

PB90335BSD

Tgt Ion: 136 Resp: 185315

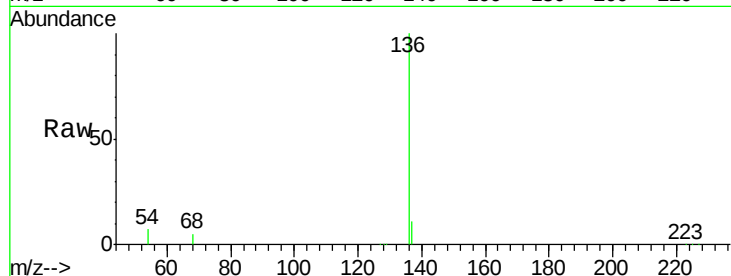
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 6.6 8.2 12.4#

68 5.1 6.2 9.4#

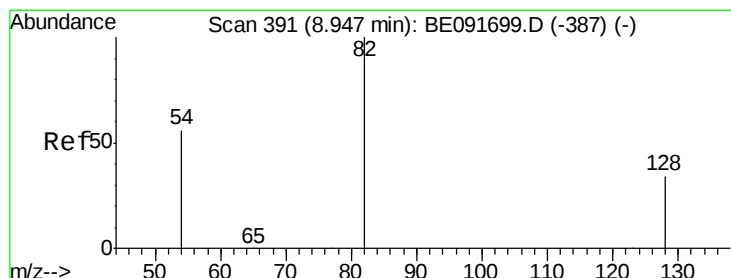
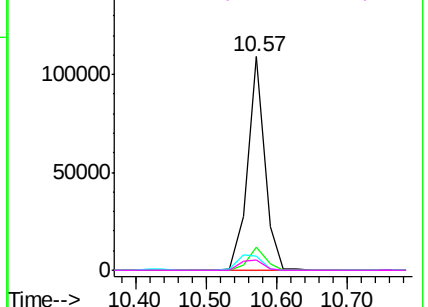
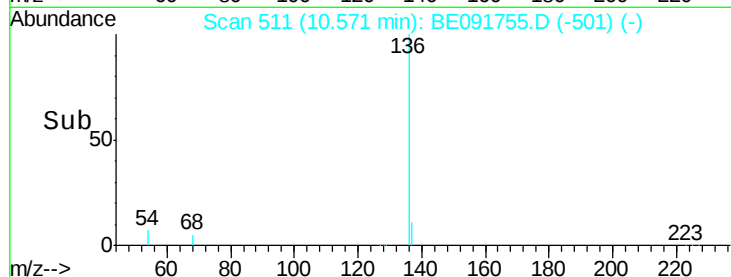


Abundance Ion 136.00 (135.70 to 136.70): E

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: 3.18 ng

RT: 8.95 min Scan# 391

Delta R.T. -0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

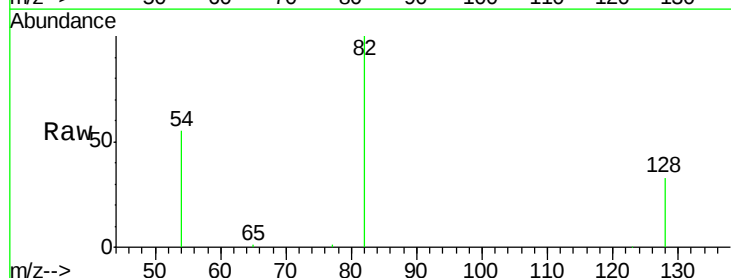
Tgt Ion: 82 Resp: 38058

Ion Ratio Lower Upper

82 100

128 32.8 25.4 38.0

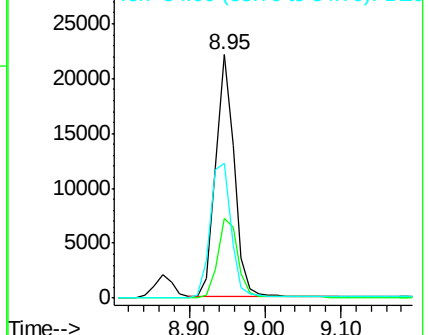
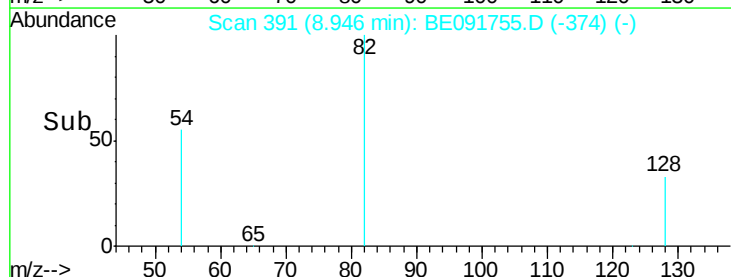
54 55.5 48.4 72.6

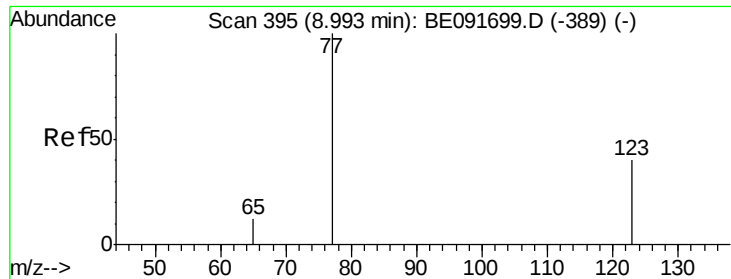


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 3.27 ng

RT: 8.99 min Scan# 395

Delta R.T. -0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

BNA\_E

ClientSampleId :

PB90335BSD

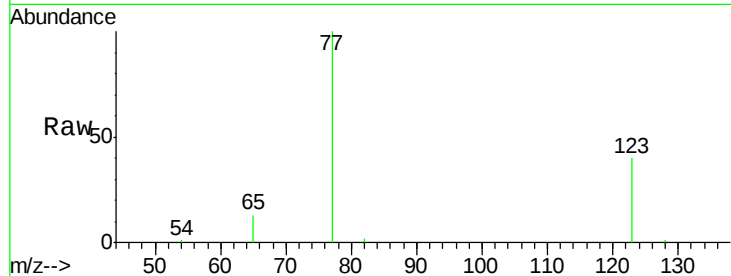
Tgt Ion: 77 Resp: 40954

Ion Ratio Lower Upper

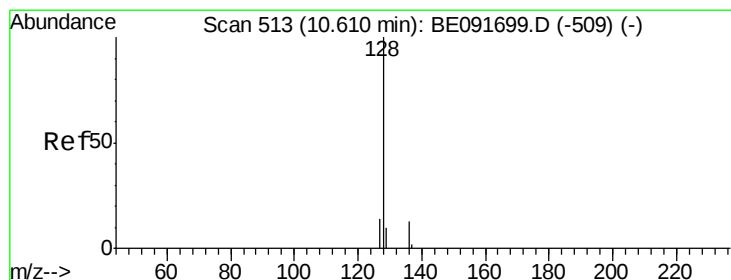
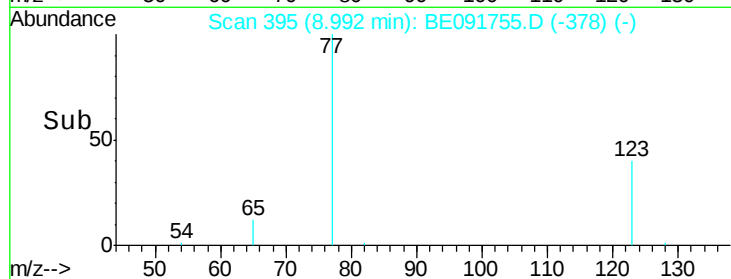
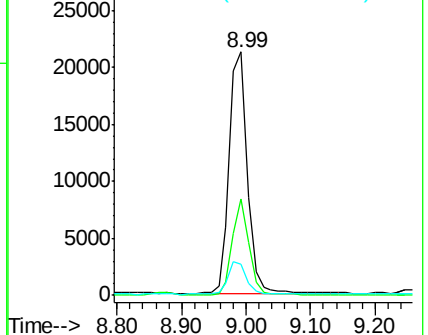
77 100

123 36.4 26.9 40.3

65 14.0 9.4 14.2



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



#10

Naphthalene

Concen: 3.47 ng

RT: 10.61 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

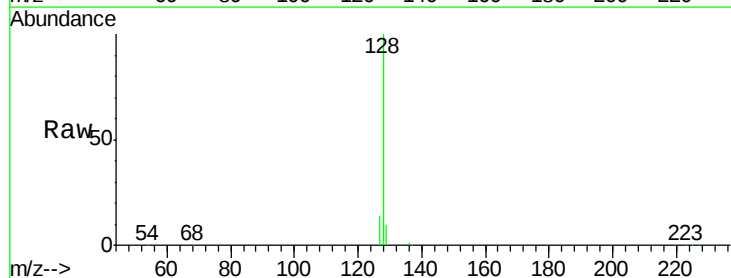
Tgt Ion: 128 Resp: 129937

Ion Ratio Lower Upper

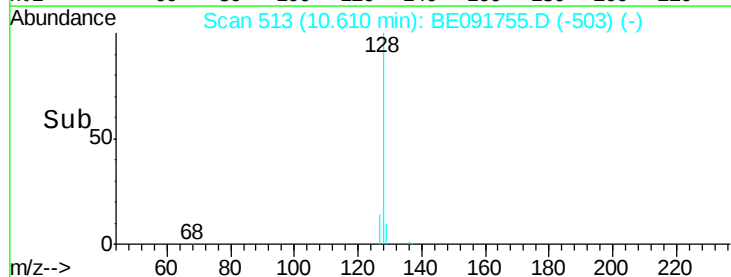
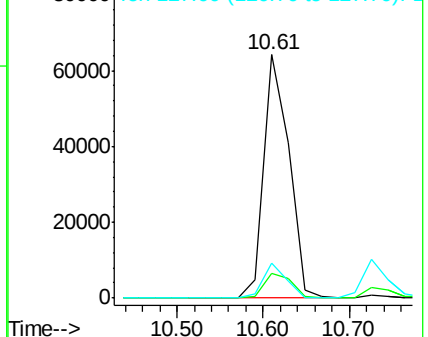
128 100

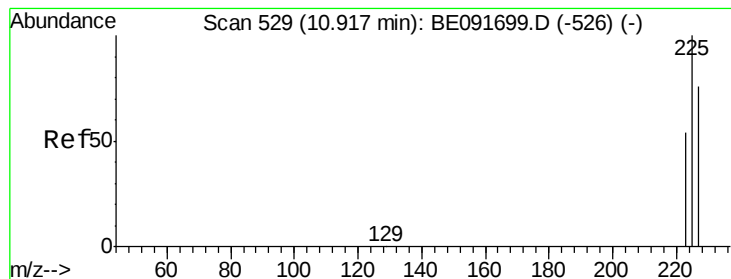
129 10.3 9.3 13.9

127 14.2 10.7 16.1



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: 3.84 ng

RT: 10.90 min Scan# 528

Delta R.T. -0.02 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

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ClientSampleId :

PB90335BSD

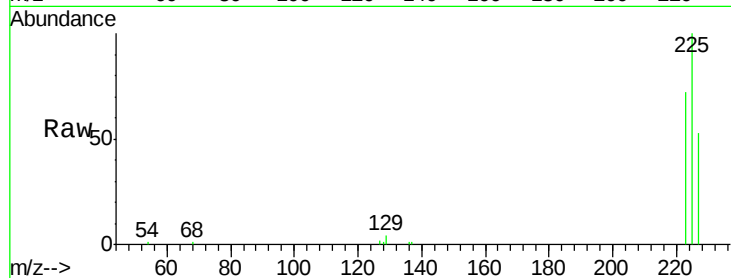
Tgt Ion:225 Resp: 21230

Ion Ratio Lower Upper

225 100

223 63.7 49.0 73.6

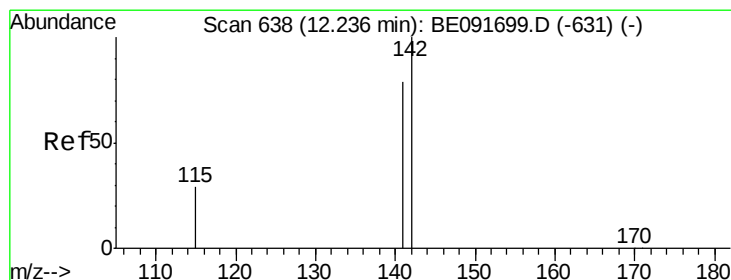
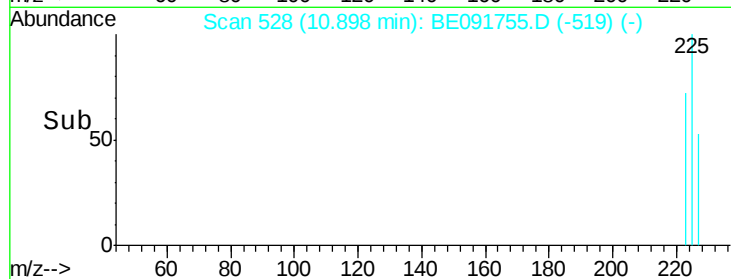
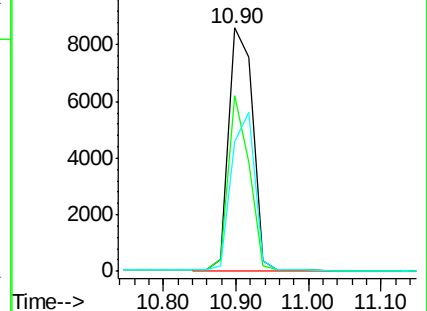
227 63.9 50.3 75.5



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



#12

2-Methylnaphthalene

Concen: 3.90 ng

RT: 12.23 min Scan# 637

Delta R.T. -0.01 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

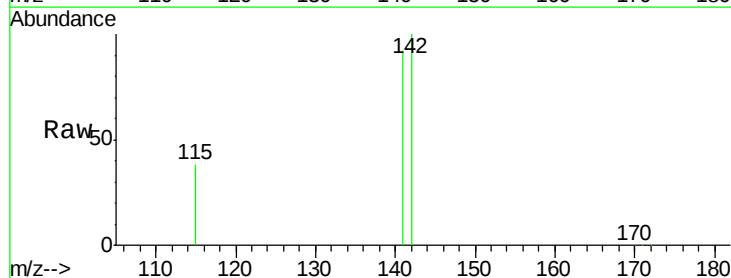
Tgt Ion:142 Resp: 93768

Ion Ratio Lower Upper

142 100

141 92.2 71.4 107.0

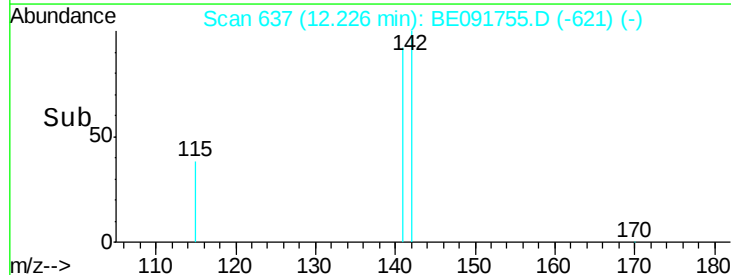
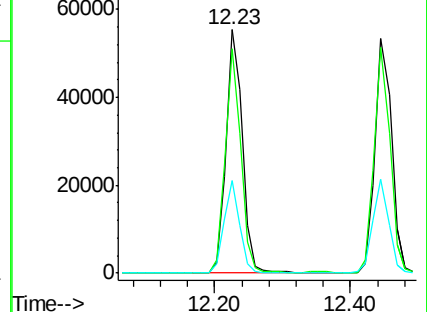
115 38.1 30.3 45.5

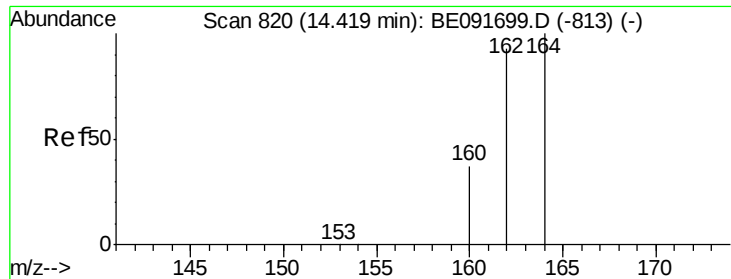


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 819

Delta R.T. -0.01 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

BNA\_E

ClientSampleId :

PB90335BSD

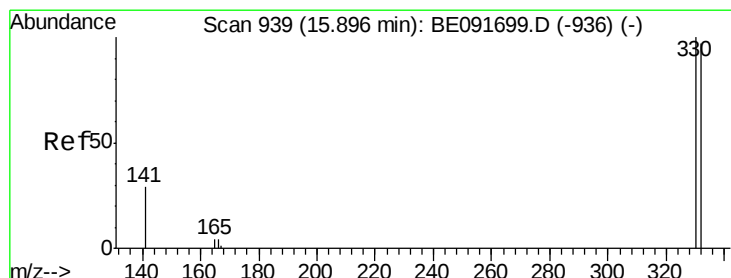
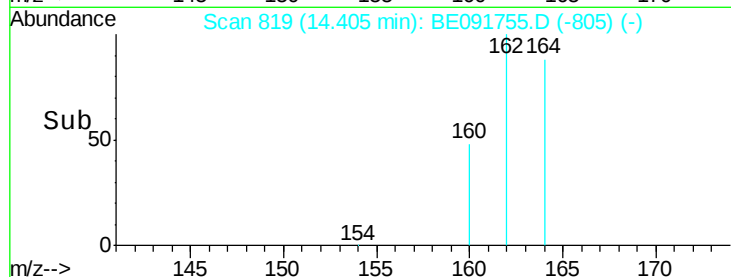
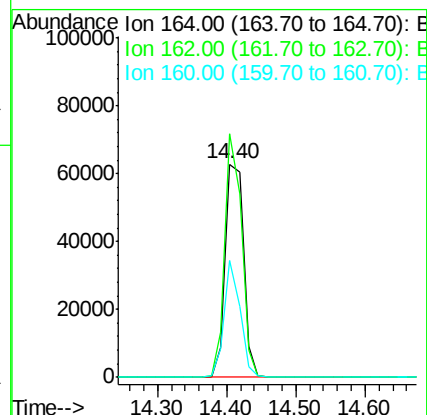
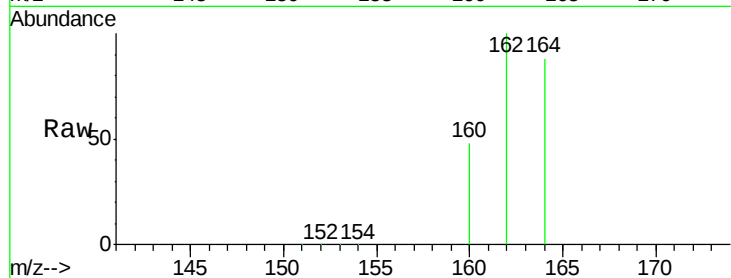
Tgt Ion:164 Resp: 114814

Ion Ratio Lower Upper

164 100

162 114.1 85.3 127.9

160 54.8 46.2 69.2



#14

2,4,6-Tribromophenol

Concen: 6.24 ng

RT: 15.90 min Scan# 939

Delta R.T. -0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

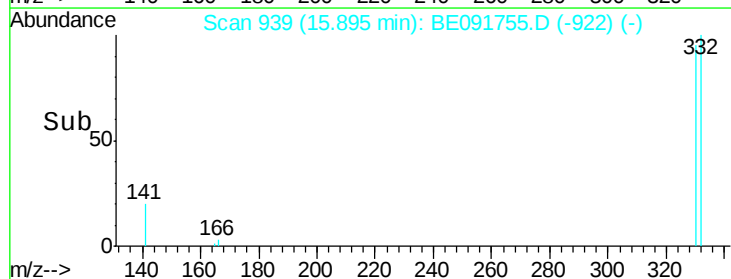
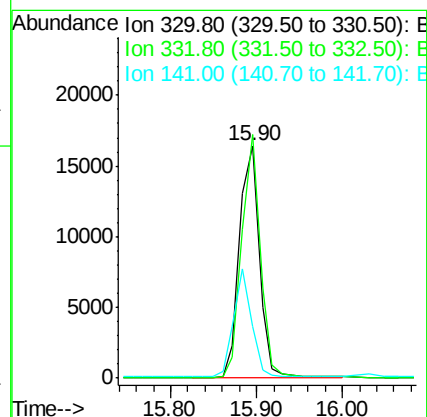
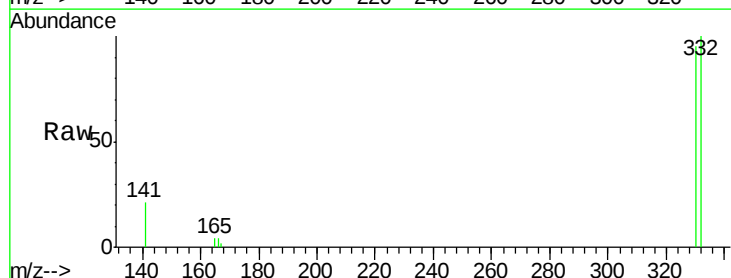
Tgt Ion:330 Resp: 26505

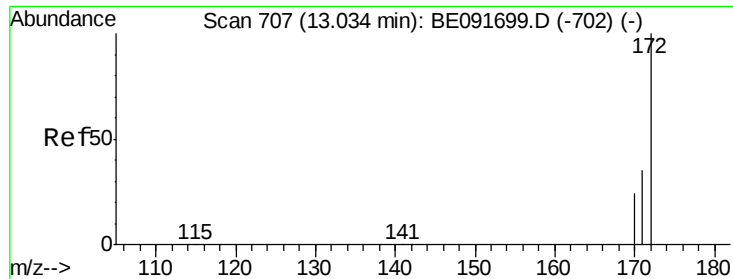
Ion Ratio Lower Upper

330 100

332 97.2 79.1 118.7

141 42.3 125.4 188.0#

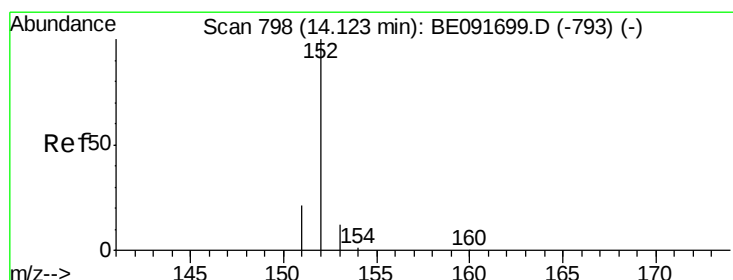
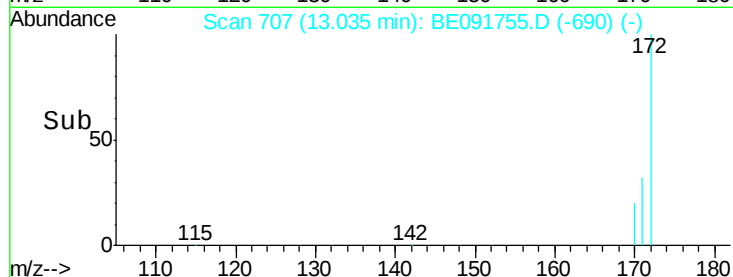
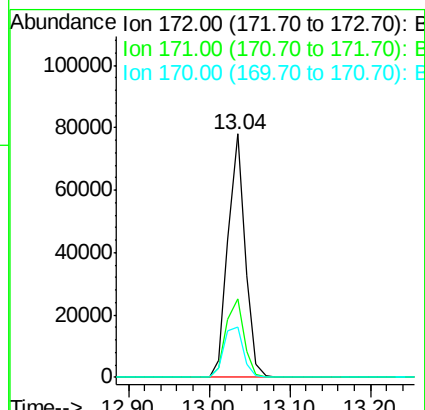
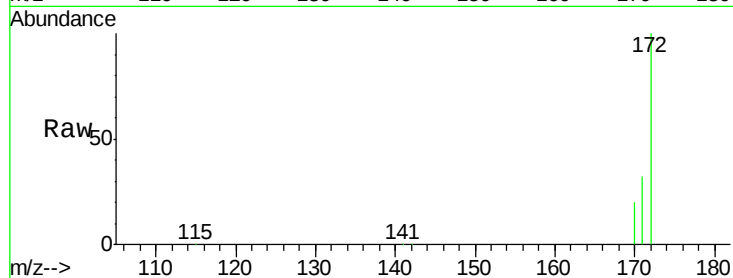




#15  
2-Fluorobiphenyl  
Concen: 3.54 ng  
RT: 13.04 min Scan# 707  
Delta R.T. 0.00 min  
Lab File: BE091755.D  
Acq: 9 May 2016 13:21

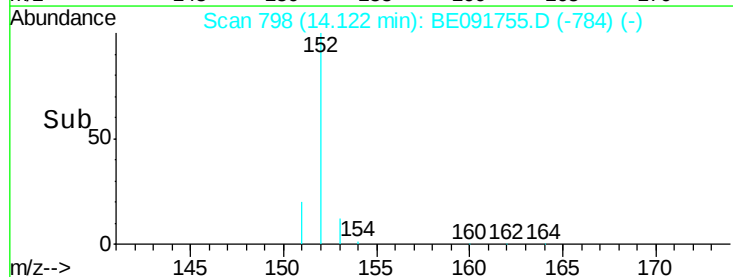
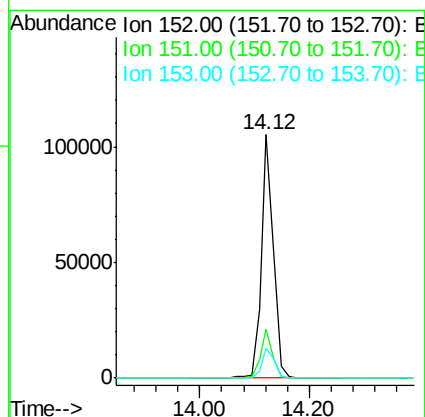
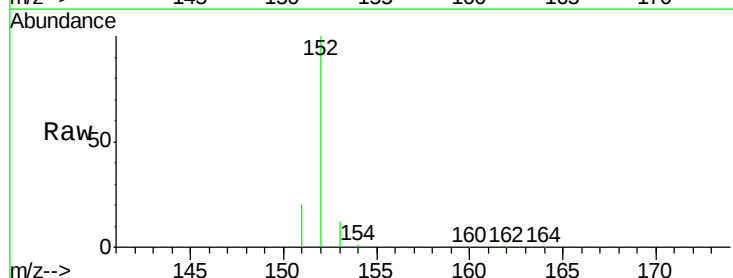
Instrument :  
BNA\_E  
ClientSampleId :  
PB90335BSD

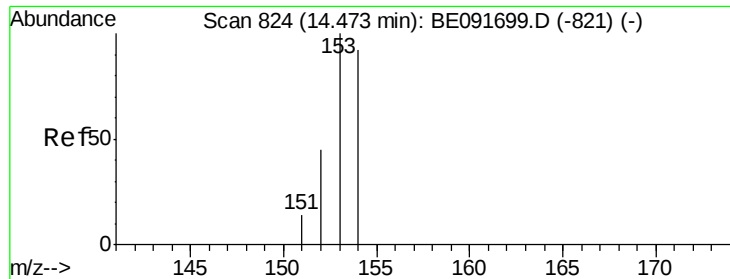
Tgt Ion:172 Resp: 114965  
Ion Ratio Lower Upper  
172 100  
171 32.5 28.8 43.2  
170 20.5 19.3 28.9



#16  
Acenaphthylene  
Concen: 3.90 ng  
RT: 14.12 min Scan# 798  
Delta R.T. -0.00 min  
Lab File: BE091755.D  
Acq: 9 May 2016 13:21

Tgt Ion:152 Resp: 172094  
Ion Ratio Lower Upper  
152 100  
151 19.9 3.9 5.9#  
153 13.5 10.3 15.5

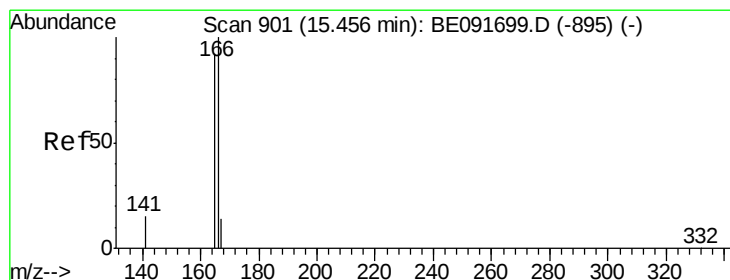
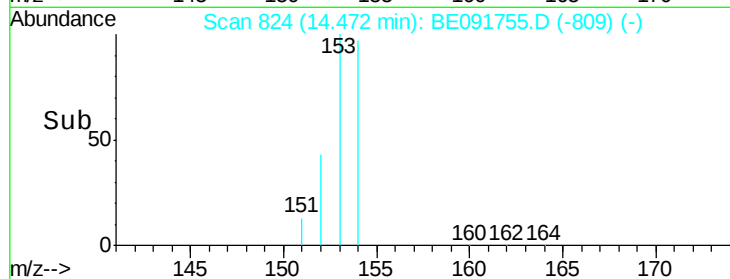
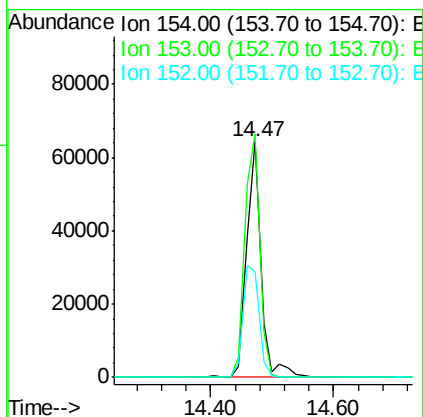
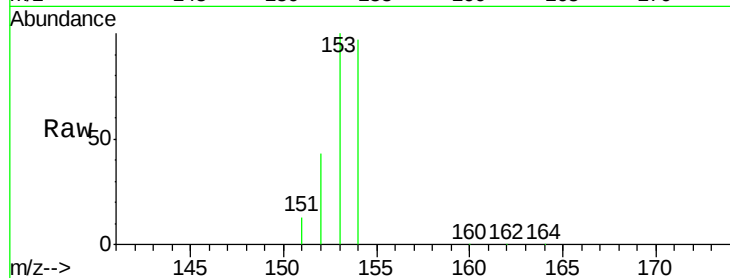




#17  
Acenaphthene  
Concen: 3.67 ng  
RT: 14.47 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: BE091755.D  
Acq: 9 May 2016 13:21

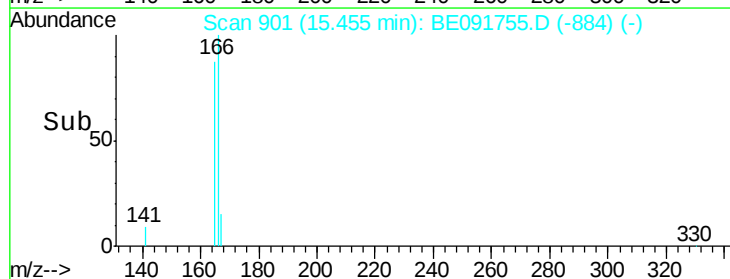
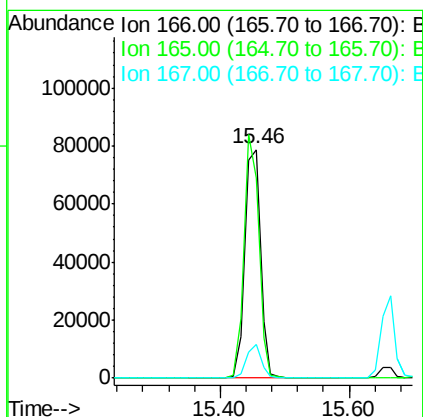
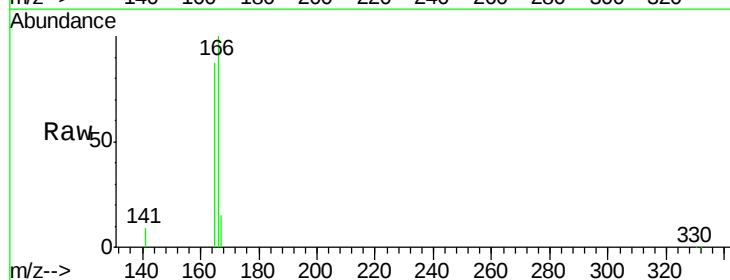
Instrument :  
BNA\_E  
ClientSampleId :  
PB90335BSD

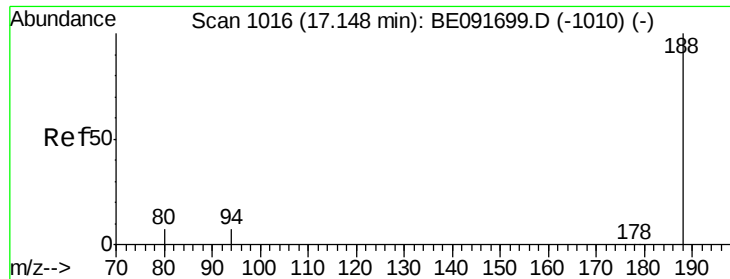
Tgt Ion:154 Resp: 105053  
Ion Ratio Lower Upper  
154 100  
153 106.0 80.0 120.0  
152 52.1 40.0 60.0



#18  
Fluorene  
Concen: 3.72 ng  
RT: 15.46 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: BE091755.D  
Acq: 9 May 2016 13:21

Tgt Ion:166 Resp: 132587  
Ion Ratio Lower Upper  
166 100  
165 99.6 80.8 121.2  
167 13.5 10.9 16.3

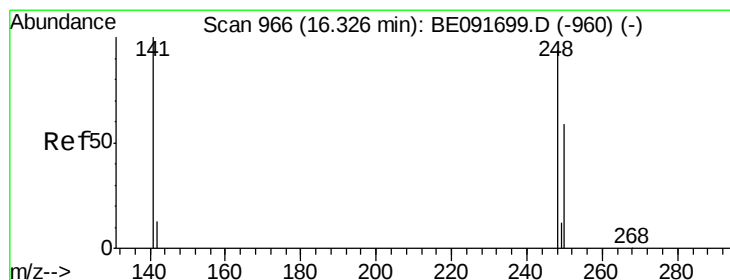
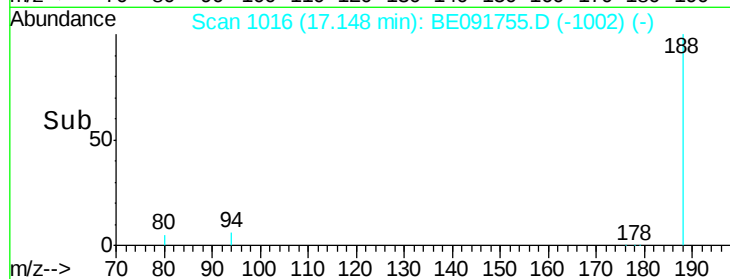
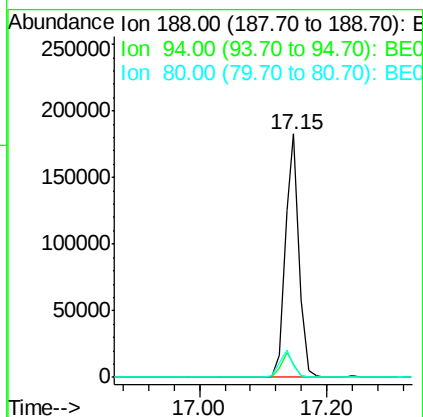
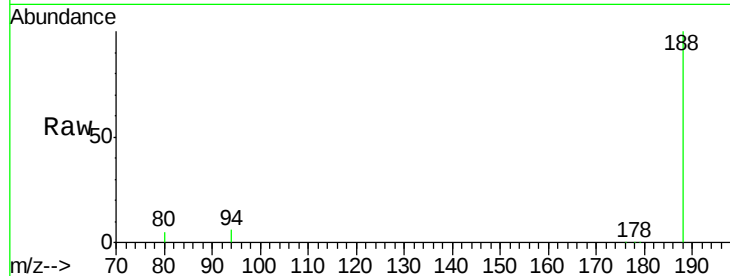




#19  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.15 min Scan# 1016  
Delta R.T. -0.00 min  
Lab File: BE091755.D  
Acq: 9 May 2016 13:21

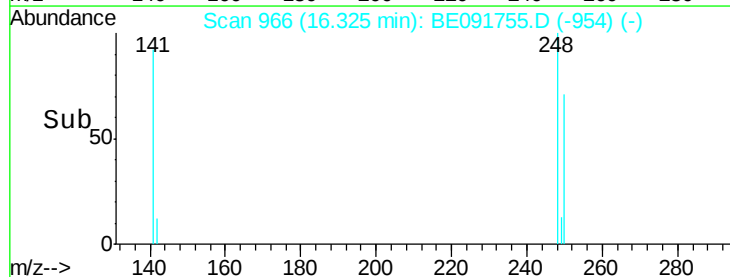
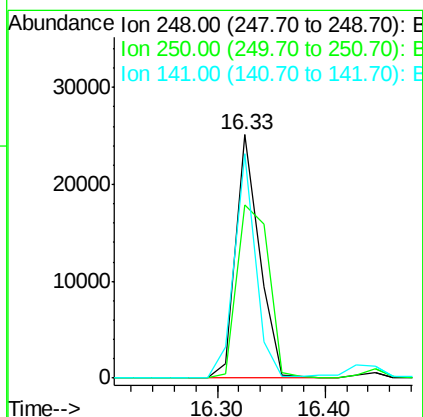
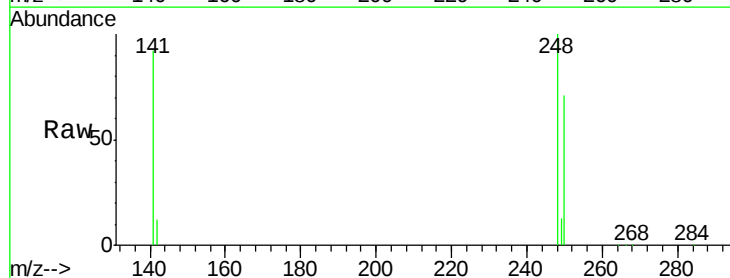
Instrument :  
BNA\_E  
ClientSampleId :  
PB90335BSD

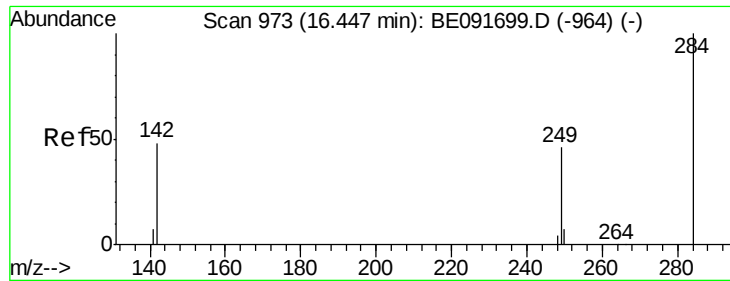
Tgt Ion:188 Resp: 306164  
Ion Ratio Lower Upper  
188 100  
94 5.6 8.7 13.1#  
80 4.8 9.4 14.0#



#20  
4-Bromophenyl-phenylether  
Concen: 3.43 ng  
RT: 16.33 min Scan# 966  
Delta R.T. -0.00 min  
Lab File: BE091755.D  
Acq: 9 May 2016 13:21

Tgt Ion:248 Resp: 37829  
Ion Ratio Lower Upper  
248 100  
250 95.4 80.5 120.7  
141 82.4 72.0 108.0

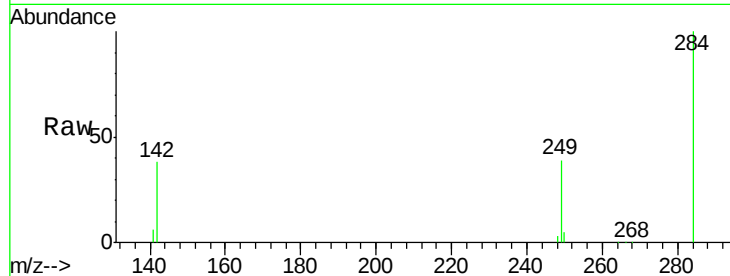




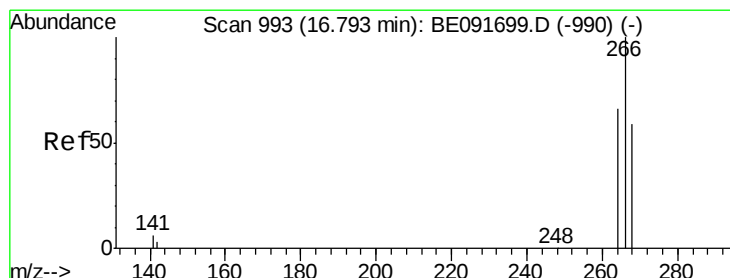
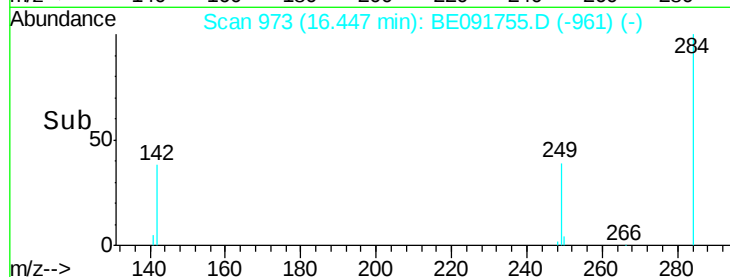
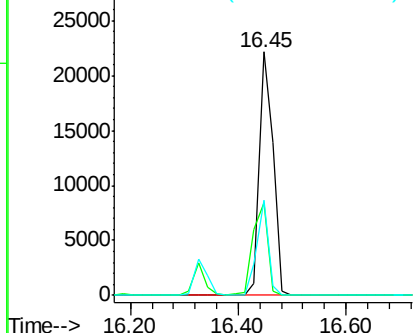
#21  
Hexachlorobenzene  
Concen: 3.54 ng  
RT: 16.45 min Scan# 973  
Delta R.T. -0.00 min  
Lab File: BE091755.D  
Acq: 9 May 2016 13:21

Instrument :  
BNA\_E  
ClientSampleId :  
PB90335BSD

Tgt Ion: 284 Resp: 38953  
Ion Ratio Lower Upper  
284 100  
142 39.4 32.2 48.2  
249 32.5 25.4 38.2

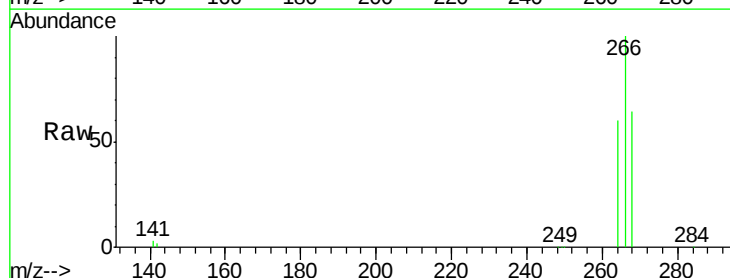


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

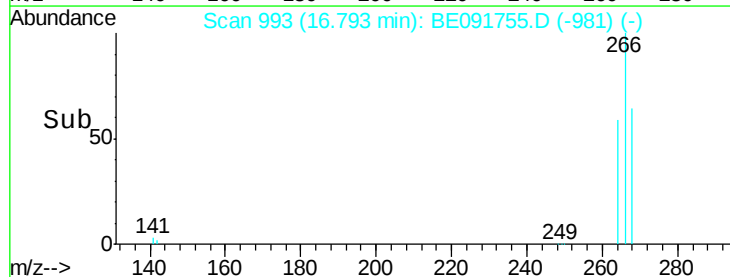
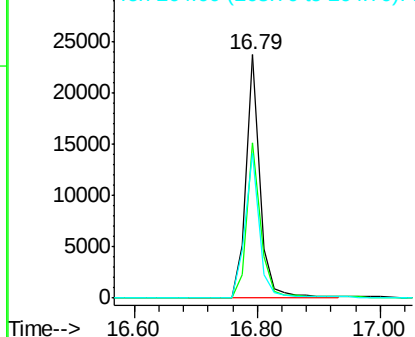


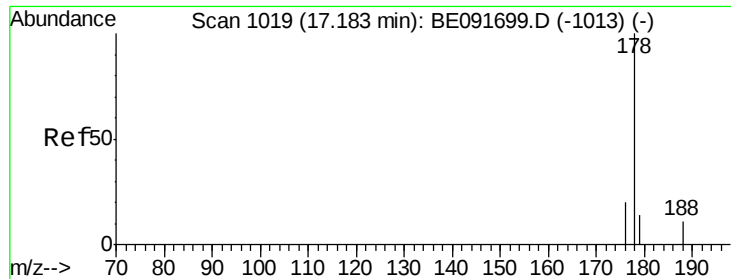
#22  
Pentachlorophenol  
Concen: 6.26 ng  
RT: 16.79 min Scan# 993  
Delta R.T. -0.00 min  
Lab File: BE091755.D  
Acq: 9 May 2016 13:21

Tgt Ion: 266 Resp: 37150  
Ion Ratio Lower Upper  
266 100  
268 63.9 58.2 87.2  
264 59.5 56.2 84.4



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: 3.41 ng

RT: 17.18 min Scan# 1019

Delta R.T. -0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

BNA\_E

ClientSampleId :

PB90335BSD

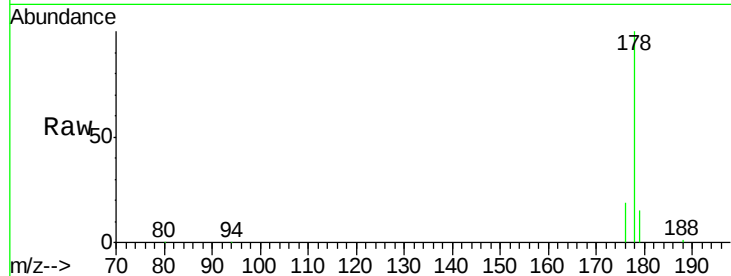
Tgt Ion:178 Resp: 237154

Ion Ratio Lower Upper

178 100

176 19.5 15.3 22.9

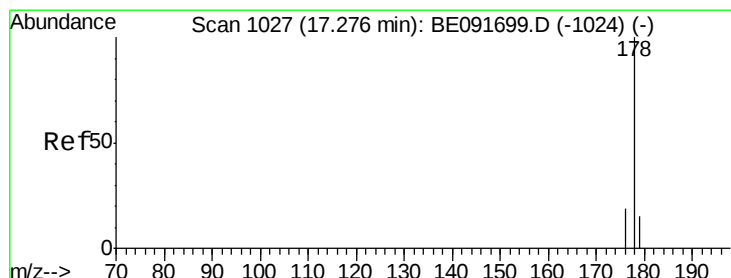
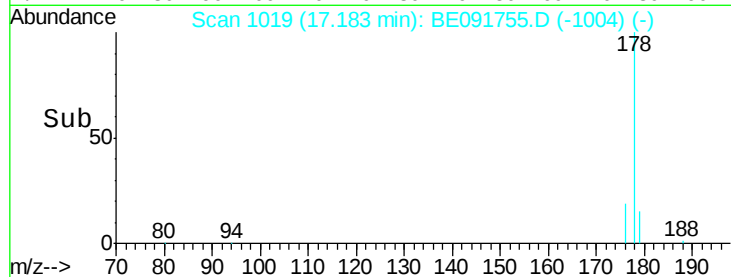
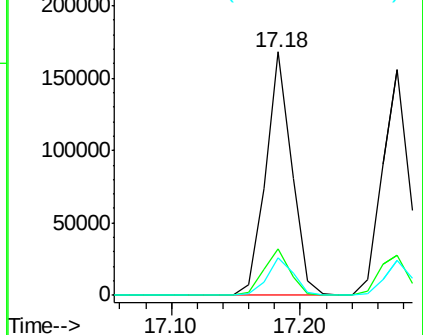
179 15.5 12.6 18.8



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

Anthracene

Concen: 3.64 ng

RT: 17.28 min Scan# 1027

Delta R.T. -0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

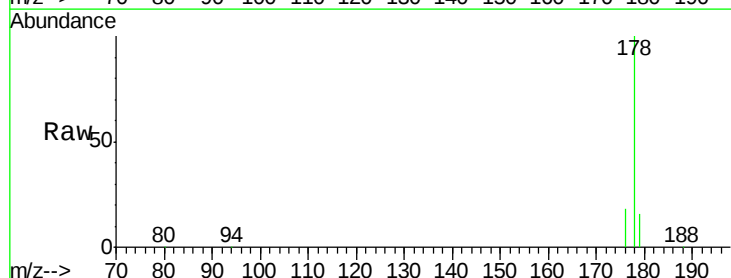
Tgt Ion:178 Resp: 228365

Ion Ratio Lower Upper

178 100

176 18.9 14.6 21.8

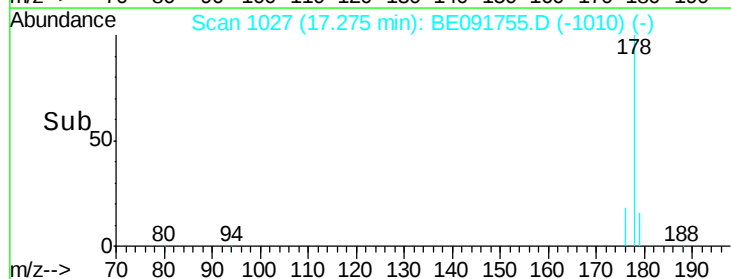
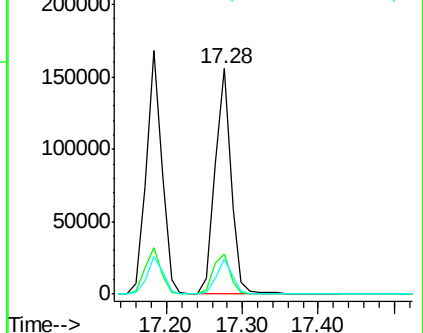
179 15.2 11.8 17.6

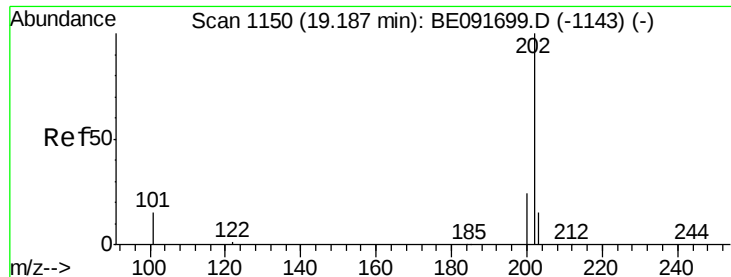


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene

Concen: 3.73 ng

RT: 19.19 min Scan# 1150

Delta R.T. -0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

BNA\_E

ClientSampleId :

PB90335BSD

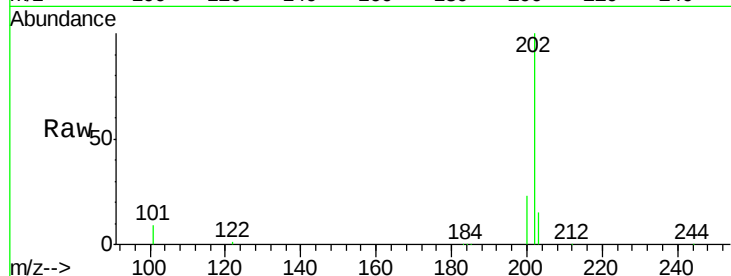
Tgt Ion:202 Resp: 271345

Ion Ratio Lower Upper

202 100

101 10.6 11.0 16.6#

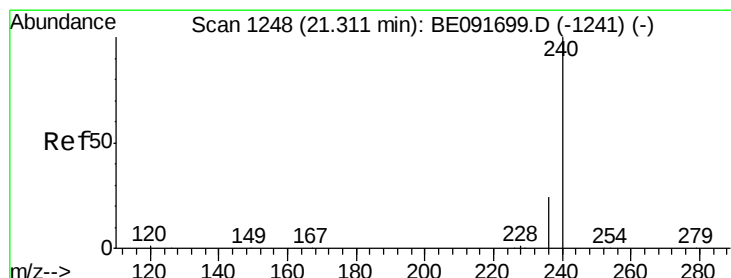
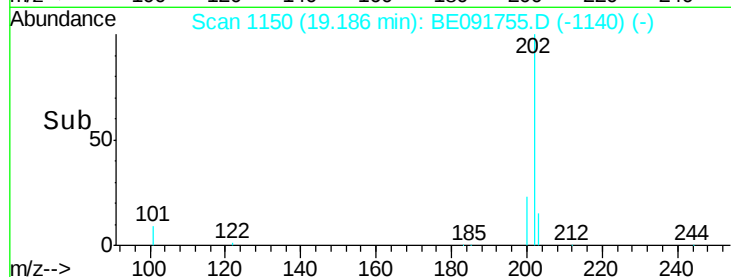
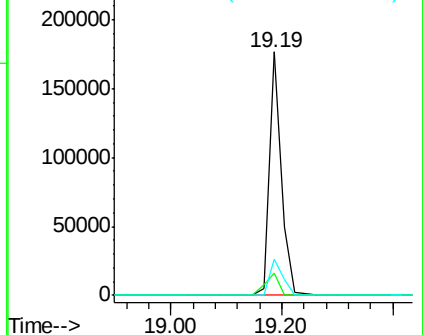
203 17.0 13.9 20.9



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



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.31 min Scan# 1248

Delta R.T. 0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

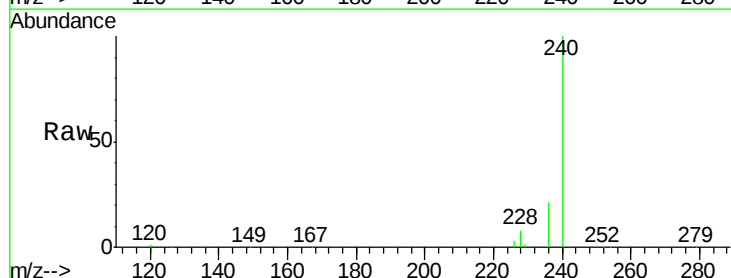
Tgt Ion:240 Resp: 285487

Ion Ratio Lower Upper

240 100

120 0.8 11.0 16.4#

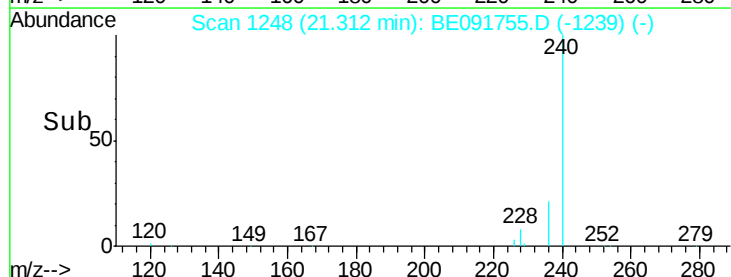
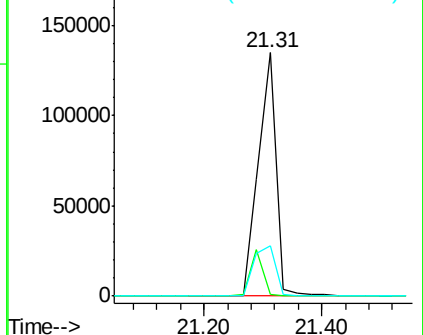
236 20.7 21.7 32.5#

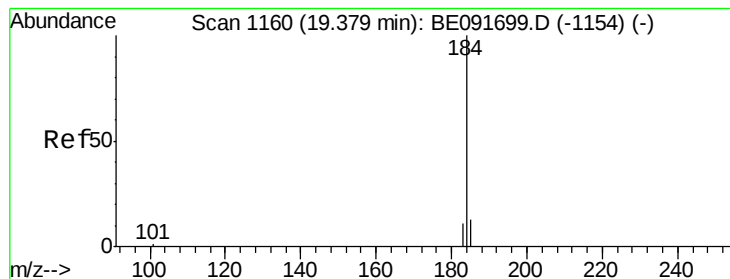


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 1.88 ng

RT: 19.38 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

BNA\_E

ClientSampleId :

PB90335BSD

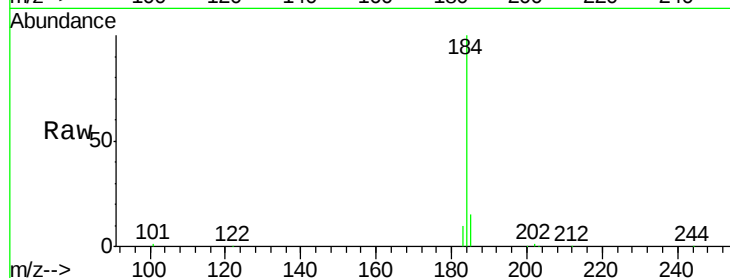
Tgt Ion:184 Resp: 40002

Ion Ratio Lower Upper

184 100

185 14.8 22.3 33.5#

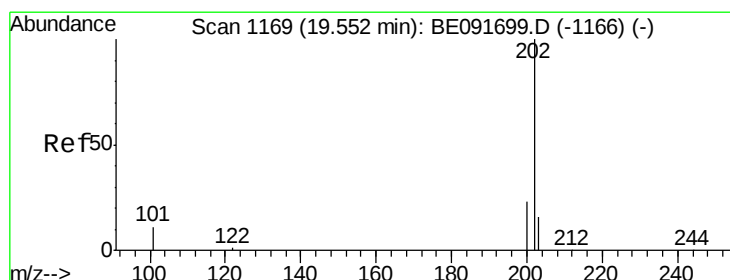
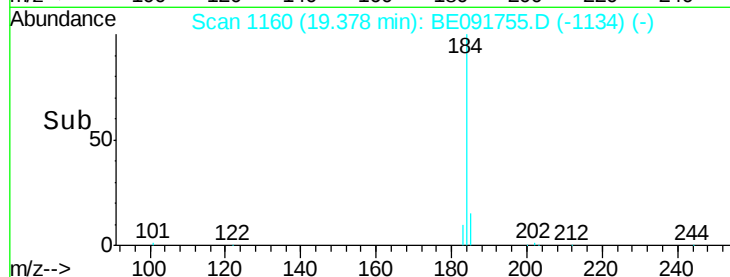
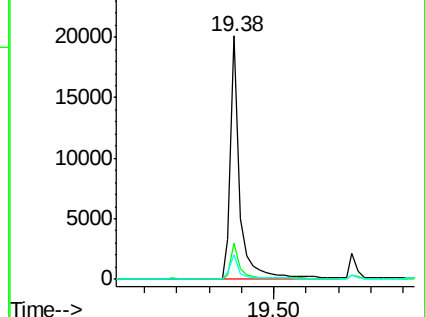
183 10.4 16.4 24.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#28

Pyrene

Concen: 4.64 ng

RT: 19.55 min Scan# 1169

Delta R.T. -0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

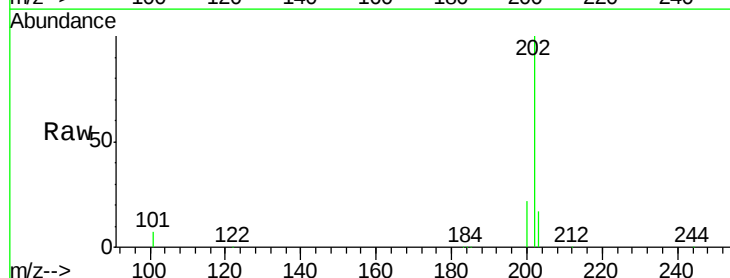
Tgt Ion:202 Resp: 299603

Ion Ratio Lower Upper

202 100

200 21.4 16.8 25.2

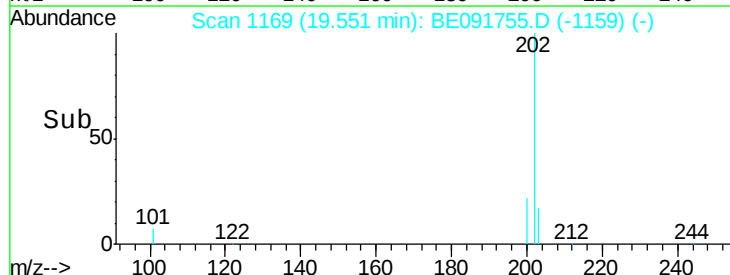
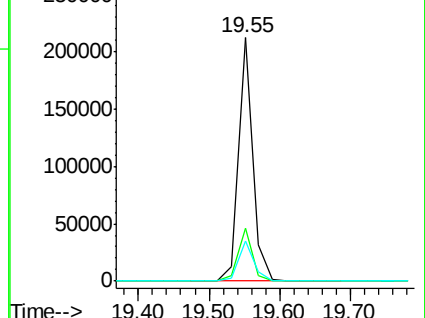
203 17.9 14.0 21.0

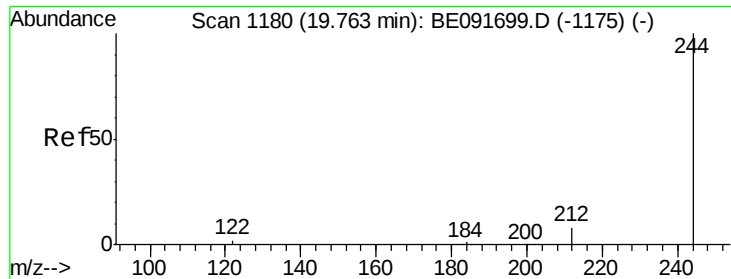


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 4.15 ng

RT: 19.76 min Scan# 1180

Delta R.T. -0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

BNA\_E

ClientSampleId :

PB90335BSD

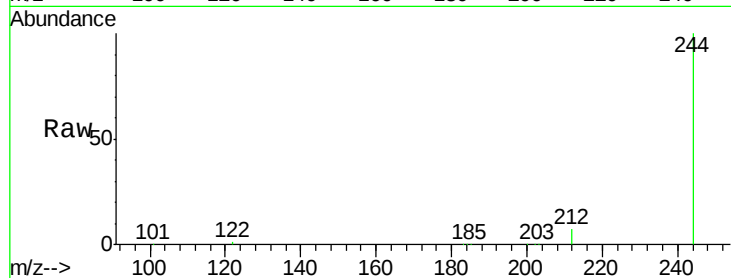
Tgt Ion:244 Resp: 184642

Ion Ratio Lower Upper

244 100

212 7.2 6.9 10.3

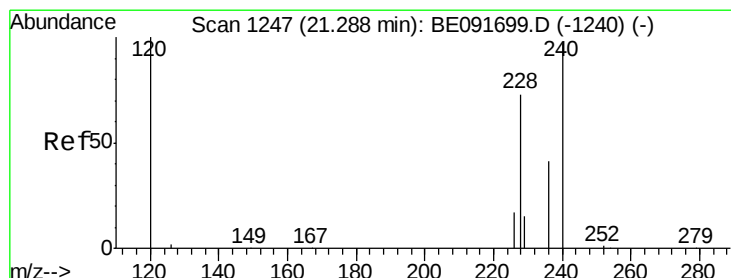
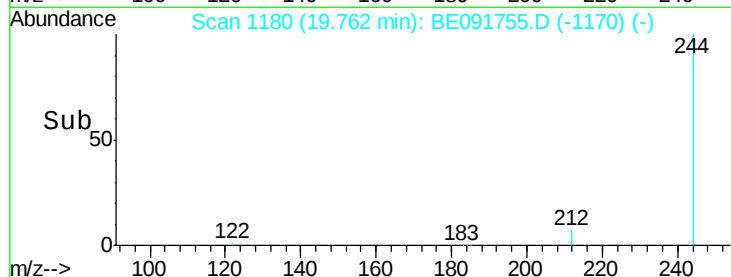
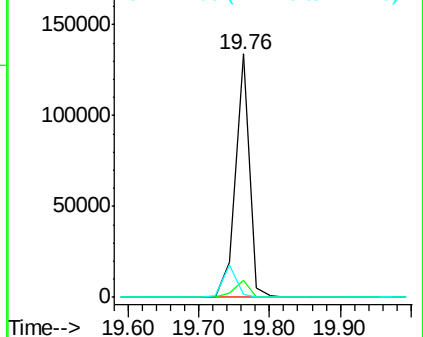
122 1.2 11.0 16.4#



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



#30

Benzo(a)anthracene

Concen: 3.84 ng

RT: 21.29 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

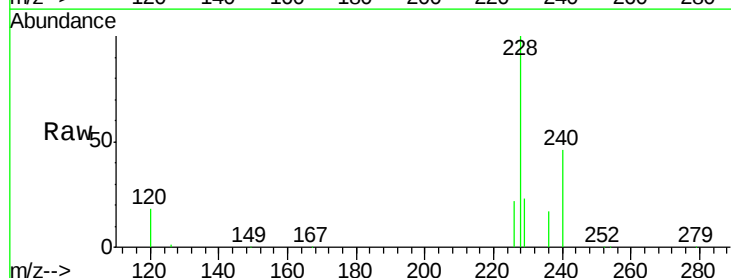
Tgt Ion:228 Resp: 267841

Ion Ratio Lower Upper

228 100

226 21.9 21.0 31.4

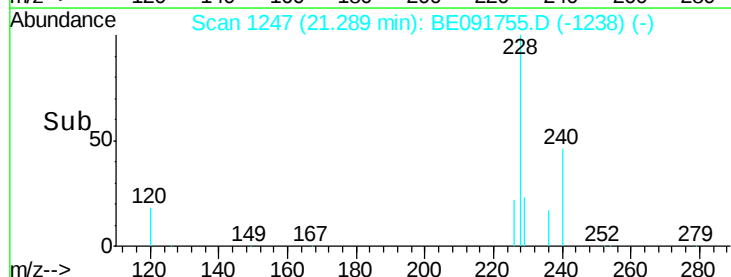
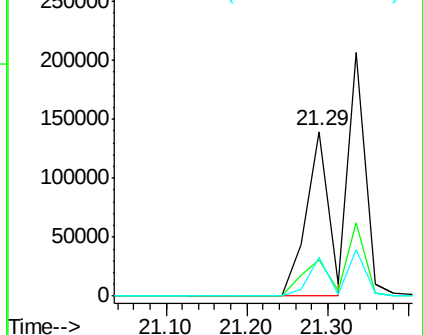
229 23.3 15.7 23.5

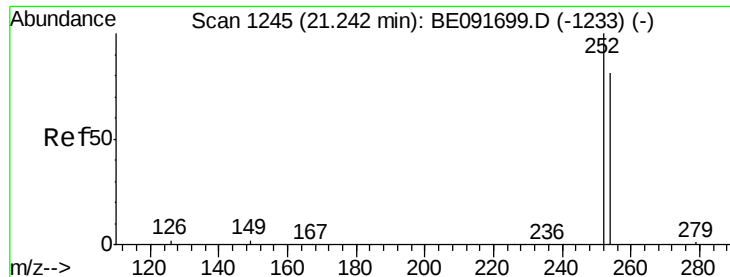


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

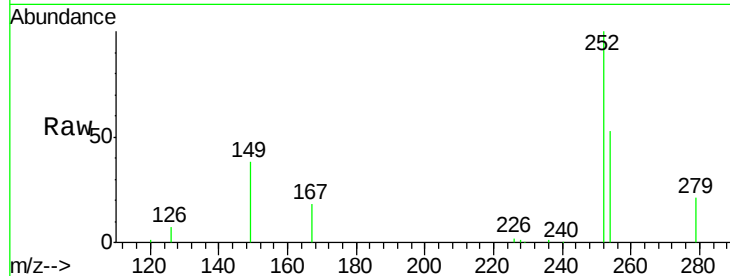




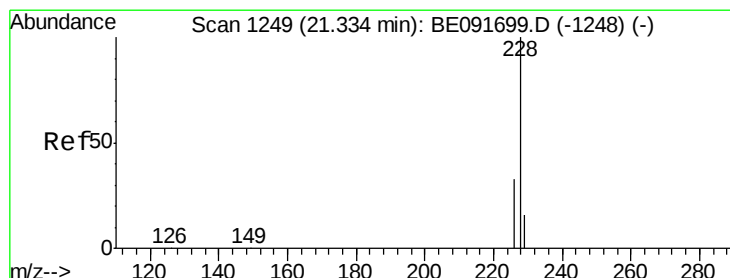
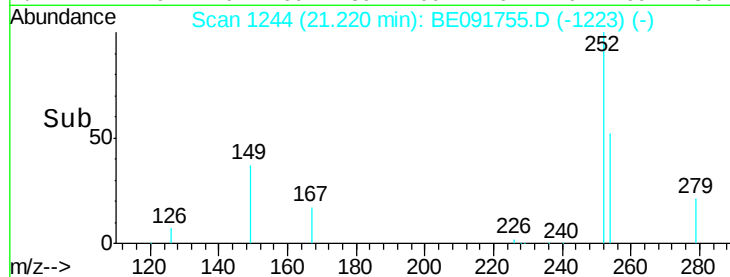
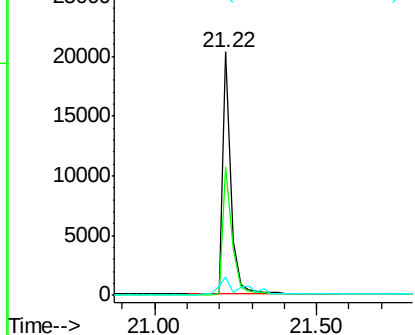
#31  
 3,3'-Dichlorobenzidine  
 Concen: 1.06 ng  
 RT: 21.22 min Scan# 1244  
 Delta R.T. -0.02 min  
 Lab File: BE091755.D  
 Acq: 9 May 2016 13:21

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB90335BSD

Tgt Ion: 252 Resp: 37590  
 Ion Ratio Lower Upper  
 252 100  
 254 52.6 51.1 76.7  
 126 7.3 12.6 18.8#

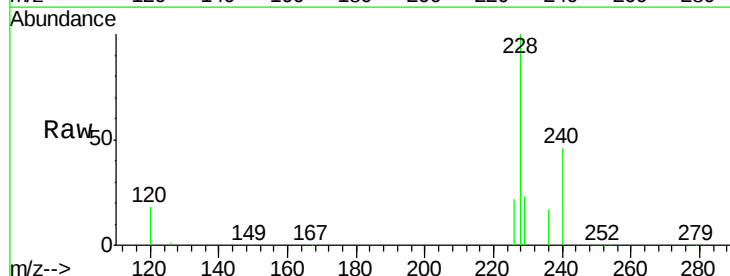


Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 254.00 (253.70 to 254.70): E  
 Ion 126.00 (125.70 to 126.70): E

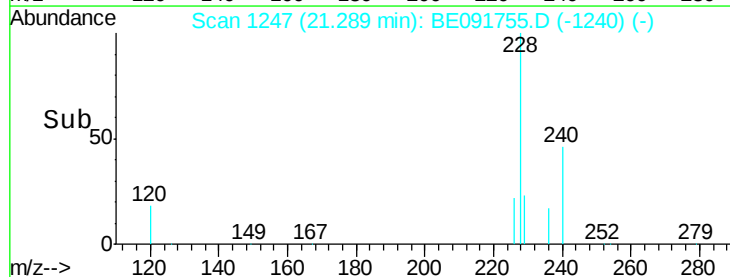
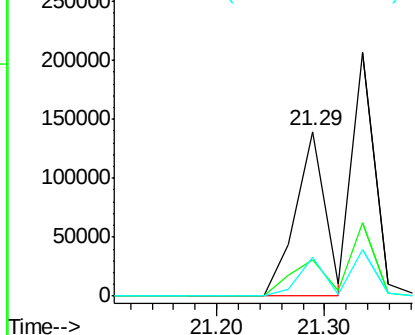


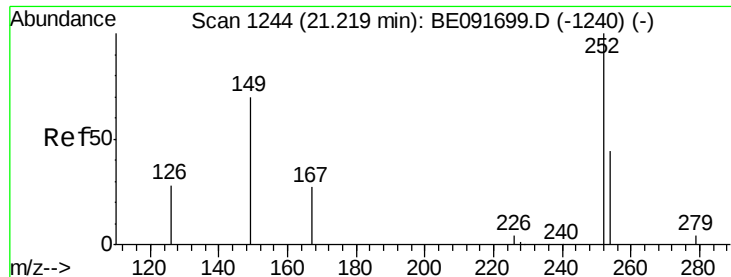
#32  
 Chrysene  
 Concen: 3.70 ng  
 RT: 21.29 min Scan# 1247  
 Delta R.T. -0.04 min  
 Lab File: BE091755.D  
 Acq: 9 May 2016 13:21

Tgt Ion: 228 Resp: 267818  
 Ion Ratio Lower Upper  
 228 100  
 226 21.9 24.0 36.0#  
 229 23.3 15.9 23.9



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

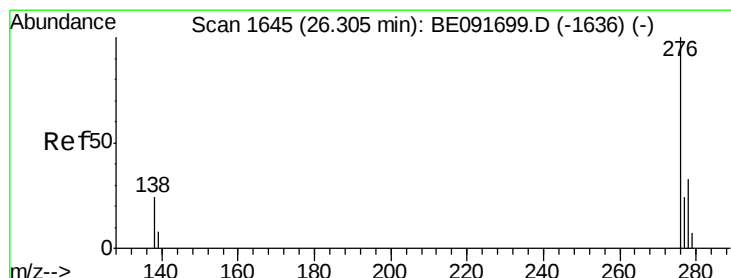
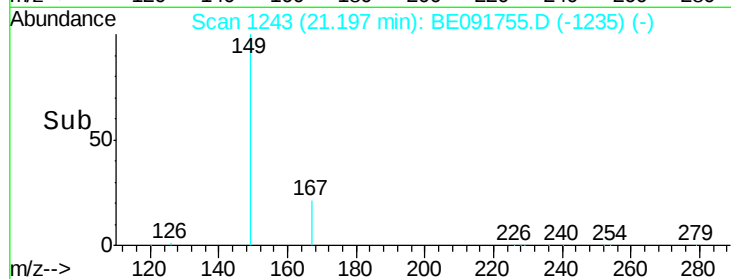
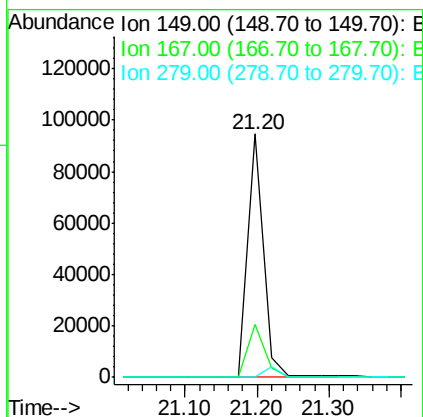
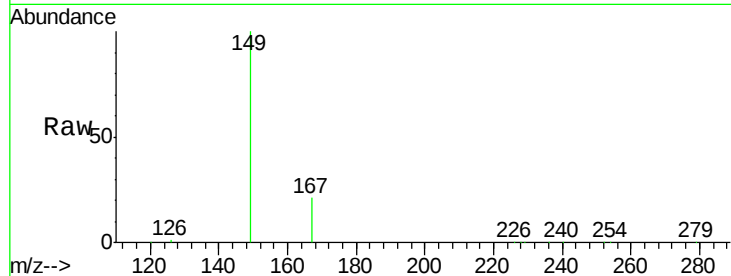




#33  
 Bis(2-ethylhexyl)phthalate  
 Concen: 6.75 ng  
 RT: 21.20 min Scan# 1243  
 Delta R.T. -0.02 min  
 Lab File: BE091755.D  
 Acq: 9 May 2016 13:21

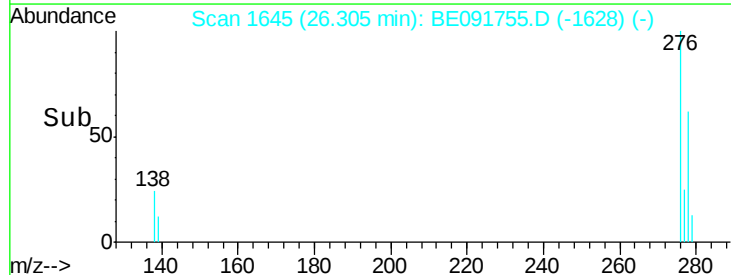
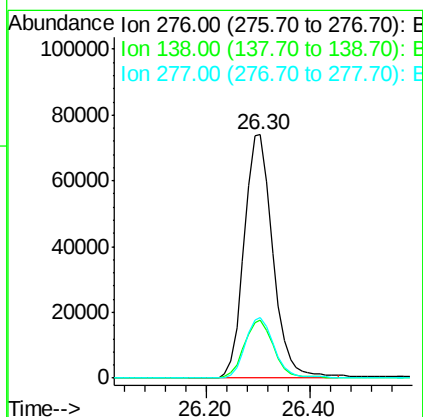
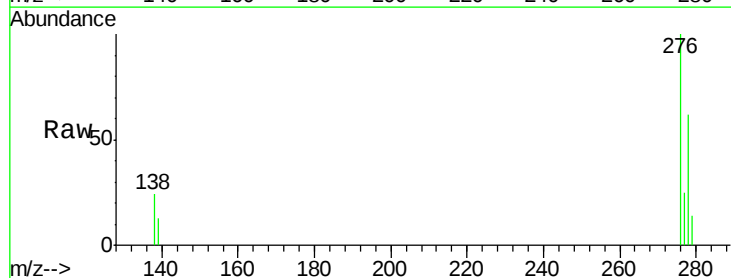
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB90335BSD

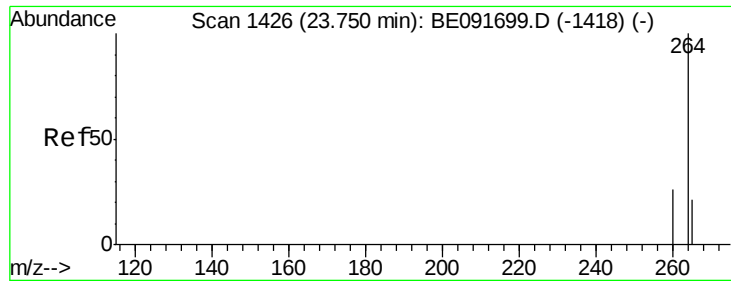
Tgt Ion:149 Resp: 142627  
 Ion Ratio Lower Upper  
 149 100  
 167 23.4 19.5 29.3  
 279 0.0 10.0 15.0#



#34  
 Indeno(1,2,3-cd)pyrene  
 Concen: 4.42 ng  
 RT: 26.30 min Scan# 1645  
 Delta R.T. -0.00 min  
 Lab File: BE091755.D  
 Acq: 9 May 2016 13:21

Tgt Ion:276 Resp: 284931  
 Ion Ratio Lower Upper  
 276 100  
 138 24.3 23.4 35.2  
 277 24.8 19.8 29.8

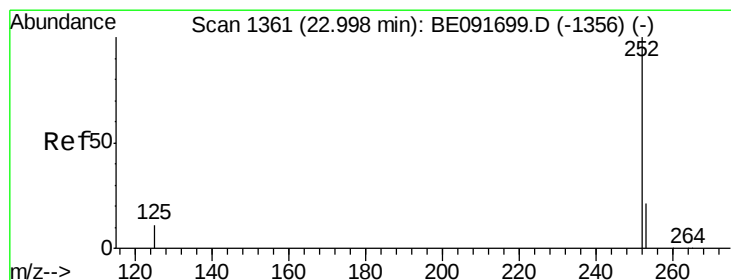
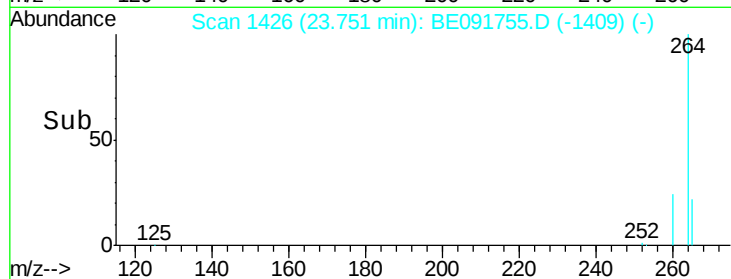
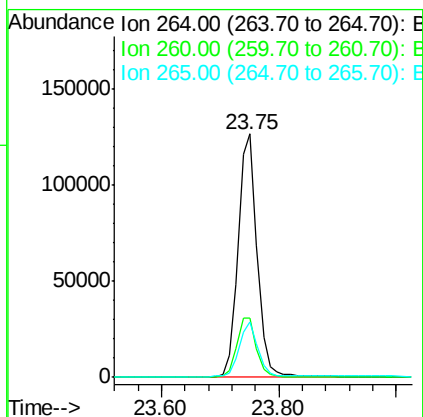
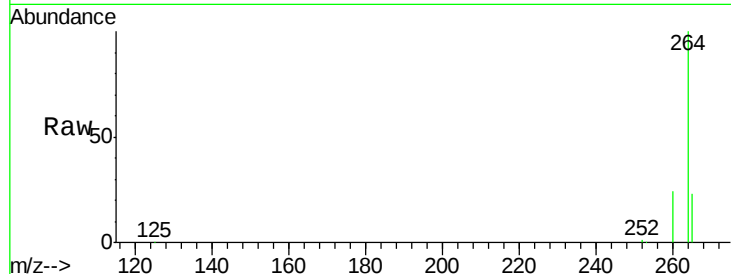




#35  
**Perylene-d12**  
 Concen: 5.00 ng  
 RT: 23.75 min Scan# 1426  
 Delta R.T. 0.00 min  
 Lab File: BE091755.D  
 Acq: 9 May 2016 13:21

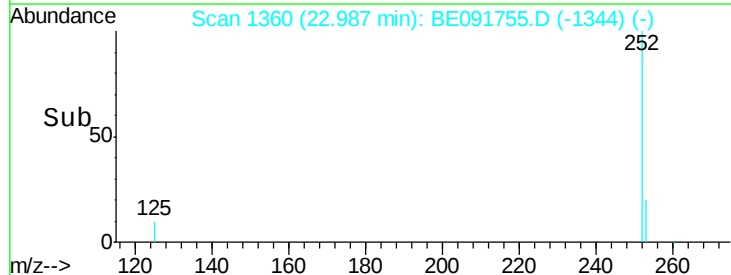
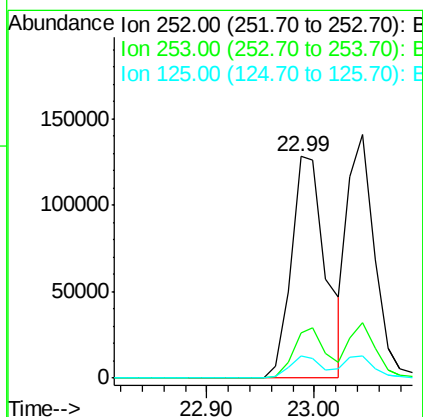
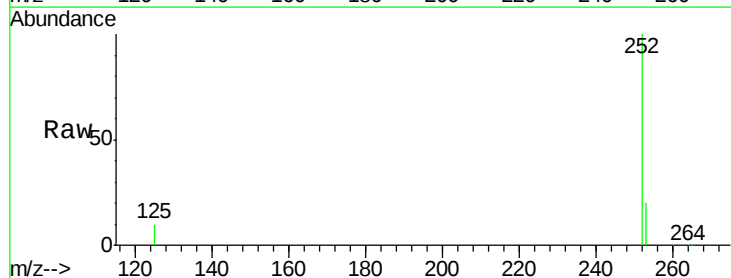
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB90335BSD

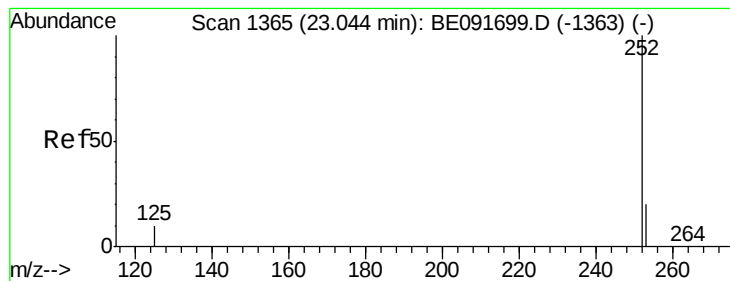
Tgt Ion: 264 Resp: 284659  
 Ion Ratio Lower Upper  
 264 100  
 260 24.3 20.0 30.0  
 265 22.5 17.5 26.3



#36  
**Benzo(b)fluoranthene**  
 Concen: 4.32 ng  
 RT: 22.99 min Scan# 1360  
 Delta R.T. -0.01 min  
 Lab File: BE091755.D  
 Acq: 9 May 2016 13:21

Tgt Ion: 252 Resp: 288034  
 Ion Ratio Lower Upper  
 252 100  
 253 20.4 17.4 26.0  
 125 10.1 10.2 15.2#





#37

Benzo(k)fluoranthene

Concen: 4.25 ng

RT: 22.99 min Scan# 1360

Delta R.T. -0.06 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

BNA\_E

ClientSampleId :

PB90335BSD

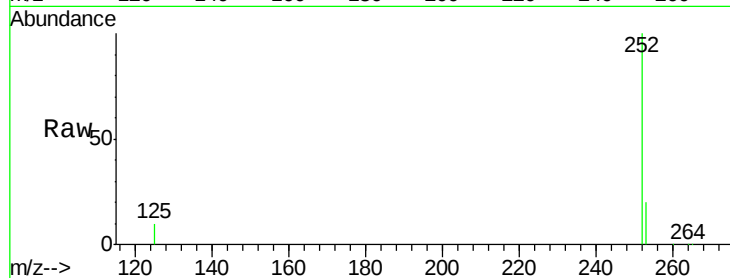
Tgt Ion:252 Resp: 288034

Ion Ratio Lower Upper

252 100

253 20.4 17.6 26.4

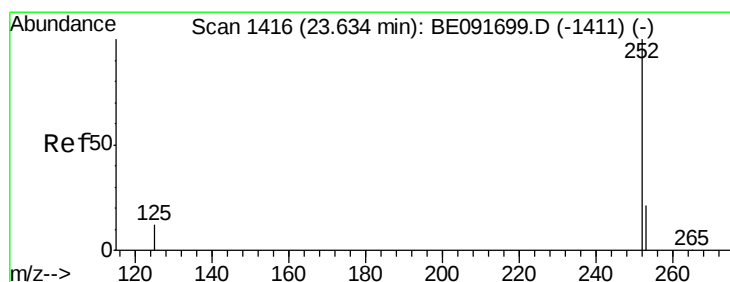
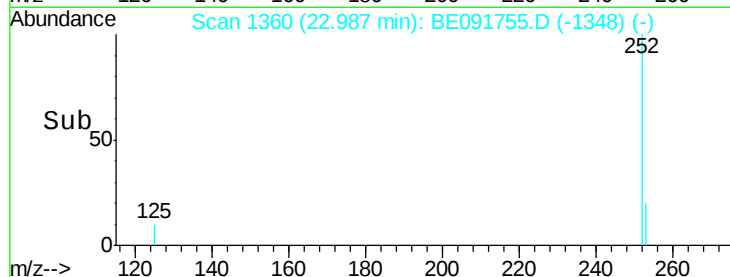
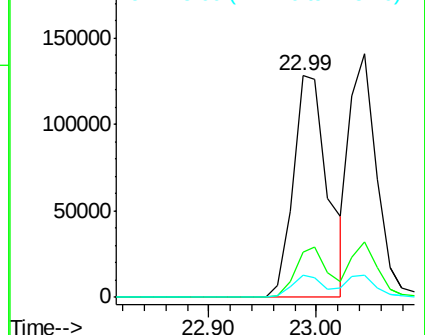
125 10.1 9.9 14.9



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



#38

Benzo(a)pyrene

Concen: 4.06 ng

RT: 23.63 min Scan# 1416

Delta R.T. 0.00 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

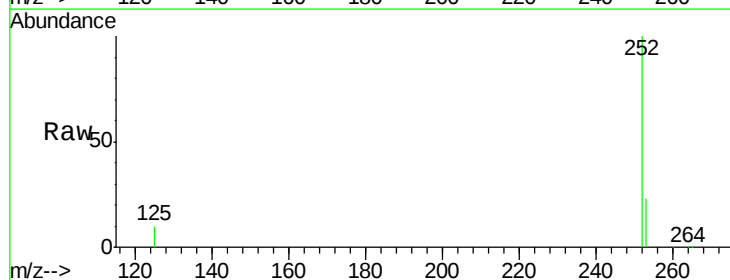
Tgt Ion:252 Resp: 254765

Ion Ratio Lower Upper

252 100

253 22.8 18.1 27.1

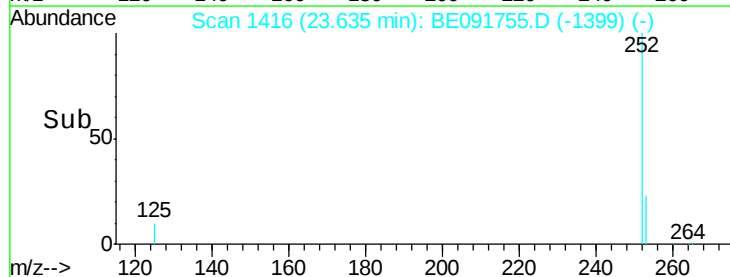
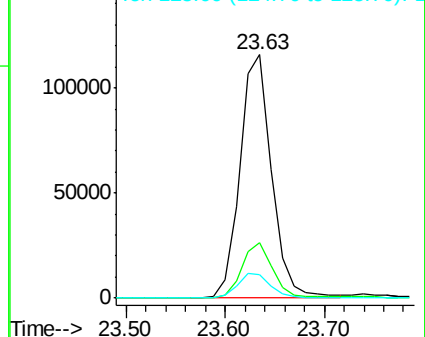
125 9.8 11.0 16.4#

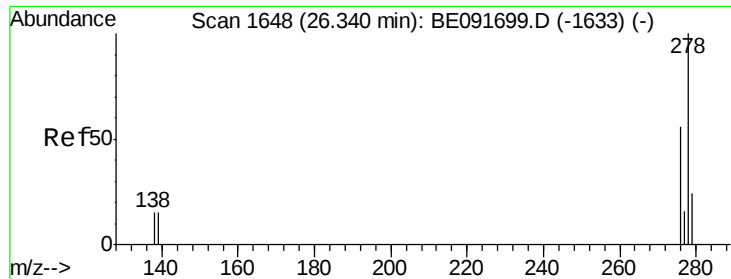


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Dibenzo(a,h)anthracene

Concen: 3.98 ng

RT: 26.33 min Scan# 1647

Delta R.T. -0.01 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

Instrument :

BNA\_E

ClientSampleId :

PB90335BSD

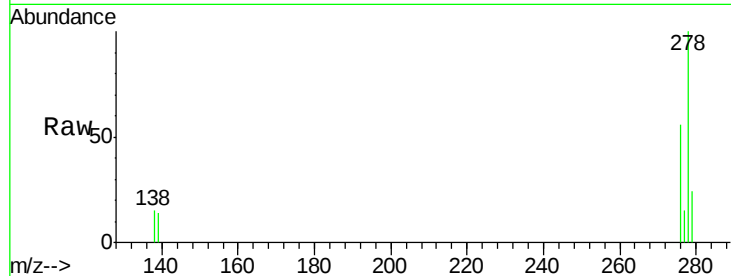
Tgt Ion: 278 Resp: 236907

Ion Ratio Lower Upper

278 100

139 14.5 16.0 24.0#

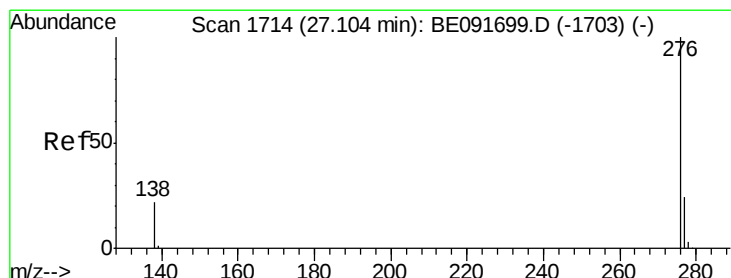
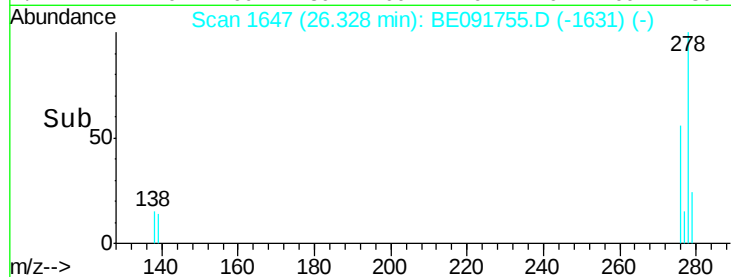
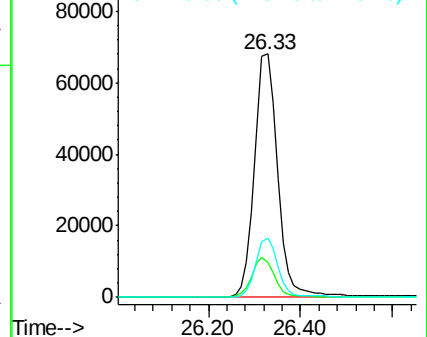
279 24.1 19.4 29.2



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



#40

Benzo(g,h,i)perylene

Concen: 4.00 ng

RT: 27.09 min Scan# 1713

Delta R.T. -0.01 min

Lab File: BE091755.D

Acq: 9 May 2016 13:21

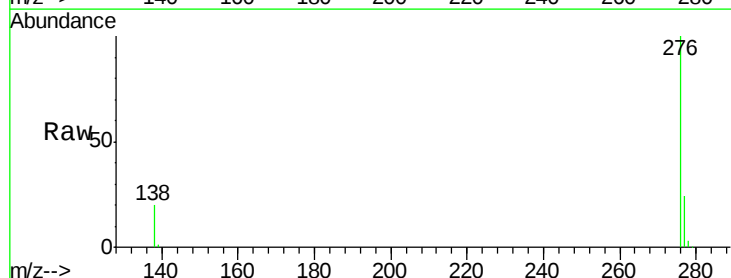
Tgt Ion: 276 Resp: 242218

Ion Ratio Lower Upper

276 100

277 24.0 18.6 28.0

138 20.2 20.4 30.6#



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

