

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE080416\  
 Data File : BE092192.D  
 Acq On : 4 Aug 2016 21:11  
 Operator : UM/SJ  
 Sample : PB92633BS  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB92633BS

Quant Time: Aug 05 03:14:44 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-PAH-BE080216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 02 16:59:37 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.17  | 152  | 13226    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.98 | 136  | 57906    | 5.00 | ng    | -0.01    |
| 10) Acenaphthene-d10      | 14.83 | 164  | 27062    | 5.00 | ng    | -0.02    |
| 16) Phenanthrene-d10      | 17.56 | 188  | 59267    | 5.00 | ng    | -0.02    |
| 22) Chrysene-d12          | 21.73 | 240  | 59068    | 5.00 | ng    | -0.02    |
| 28) Perylene-d12          | 24.14 | 264  | 24979    | 5.00 | ng    | 0.00     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.69  | 112 | 23298 | 6.86 | ng | 0.00  |
| 5) Phenol-d6                | 7.34  | 99  | 28815 | 6.37 | ng | -0.01 |
| 7) Nitrobenzene-d5          | 9.34  | 82  | 13851 | 3.03 | ng | -0.01 |
| 11) 2,4,6-Tribromophenol    | 16.33 | 330 | 6319  | 7.19 | ng | 0.00  |
| 12) 2-Fluorobiphenyl        | 13.46 | 172 | 29246 | 3.41 | ng | 0.00  |
| 24) Terphenyl-d14           | 20.19 | 244 | 33716 | 3.97 | ng | -0.02 |

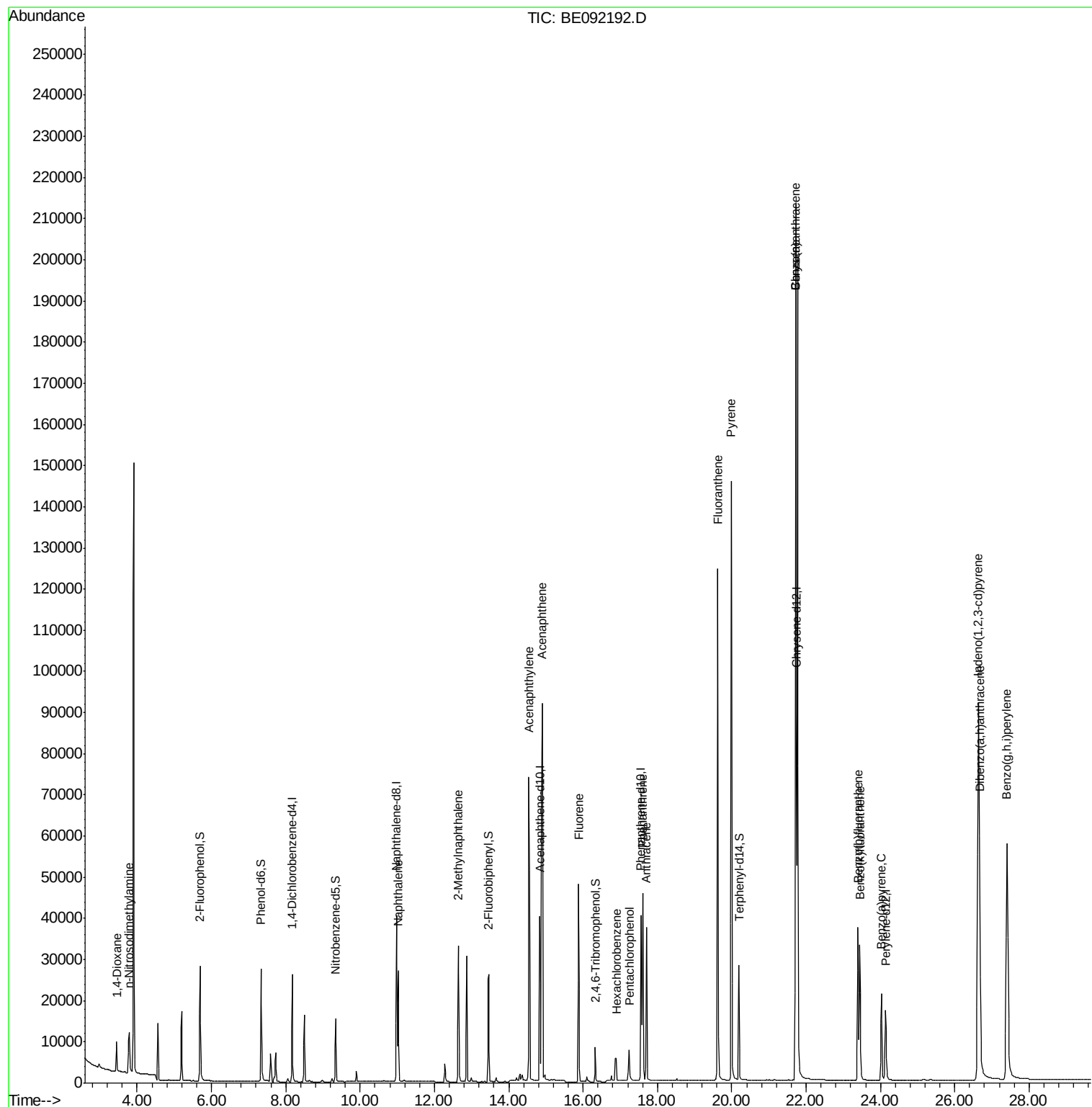
|                            |       |     |        |        |    |      |
|----------------------------|-------|-----|--------|--------|----|------|
| Target Compounds           |       |     |        | Qvalue |    |      |
| 2) 1,4-Dioxane             | 3.44  | 88  | 5381   | 2.99   | ng | 93   |
| 3) n-Nitrosodimethylamine  | 3.78  | 42  | 9009   | 3.63   | ng | # 81 |
| 8) Naphthalene             | 11.03 | 128 | 38563  | 3.10   | ng | 95   |
| 9) 2-Methylnaphthalene     | 12.64 | 142 | 25838  | 3.14   | ng | # 86 |
| 13) Acenaphthylene         | 14.54 | 152 | 117499 | 2.46   | ng | 98   |
| 14) Acenaphthene           | 14.90 | 154 | 22621  | 2.97   | ng | # 96 |
| 15) Fluorene               | 15.88 | 166 | 29475  | 3.05   | ng | 100  |
| 17) Hexachlorobenzene      | 16.89 | 284 | 8094   | 2.79   | ng | # 38 |
| 18) Pentachlorophenol      | 17.24 | 266 | 6714   | 6.20   | ng | # 82 |
| 19) Phenanthrene           | 17.61 | 178 | 51622  | 3.19   | ng | 99   |
| 20) Anthracene             | 17.70 | 178 | 44157  | 2.80   | ng | 99   |
| 21) Fluoranthene           | 19.63 | 202 | 193688 | 2.67   | ng | 97   |
| 23) Pyrene                 | 19.99 | 202 | 173066 | 2.80   | ng | 97   |
| 25) Benzo(a)anthracene     | 21.72 | 228 | 204345 | 3.15   | ng | 97   |
| 26) Chrysene               | 21.72 | 228 | 204345 | 3.14   | ng | 95   |
| 27) Indeno(1,2,3-cd)pyrene | 26.63 | 276 | 192250 | 2.72   | ng | 97   |
| 29) Benzo(b)fluoranthene   | 23.40 | 252 | 54249  | 7.94   | ng | 97   |
| 30) Benzo(k)fluoranthene   | 23.45 | 252 | 46337  | 7.10   | ng | 97   |
| 31) Benzo(a)pyrene         | 24.02 | 252 | 34647  | 5.52   | ng | 96   |
| 32) Dibenzo(a,h)anthracene | 26.67 | 278 | 51190  | 8.54   | ng | # 92 |
| 33) Benzo(g,h,i)perylene   | 27.40 | 276 | 154794 | 6.05   | ng | 98   |

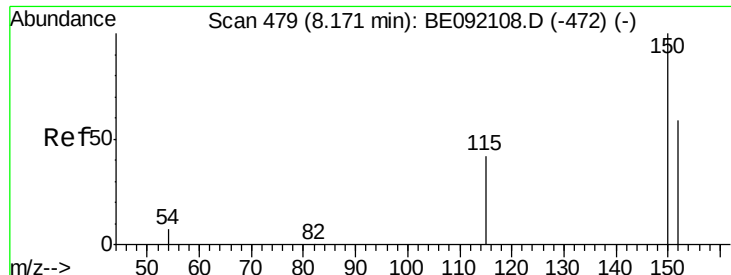
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 05 03:14:44 2016  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-PAH-BE080216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 02 16:59:37 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS

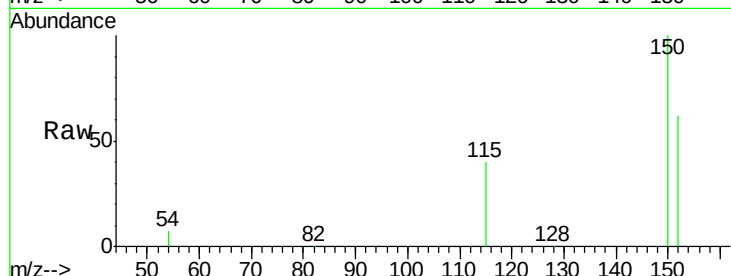
Tgt Ion:152 Resp: 13226

Ion Ratio Lower Upper

152 100

150 162.3 106.0 159.0#

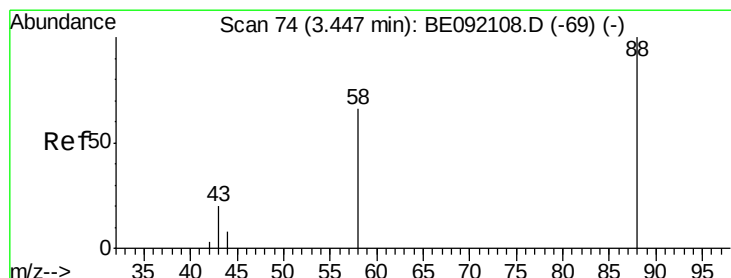
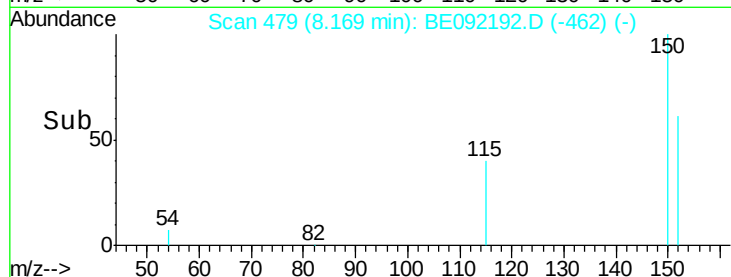
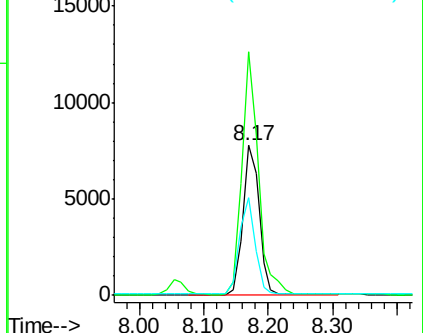
115 65.4 36.9 55.3#



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: 2.99 ng

RT: 3.44 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

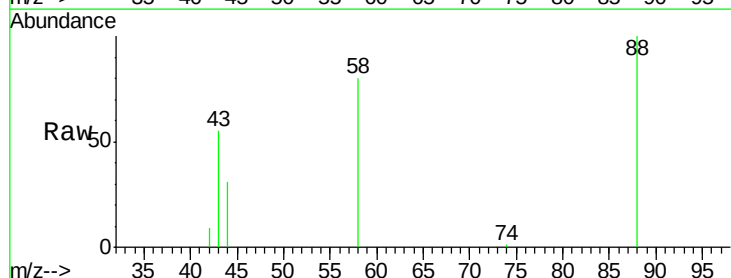
Tgt Ion: 88 Resp: 5381

Ion Ratio Lower Upper

88 100

58 82.8 62.1 93.1

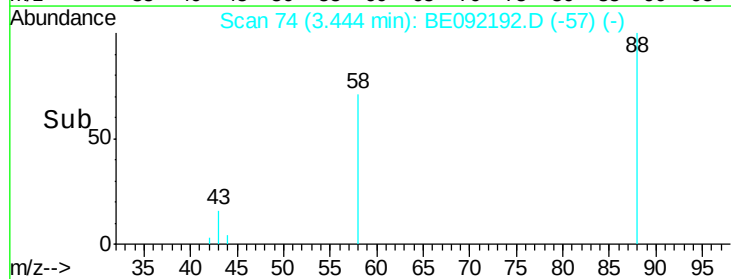
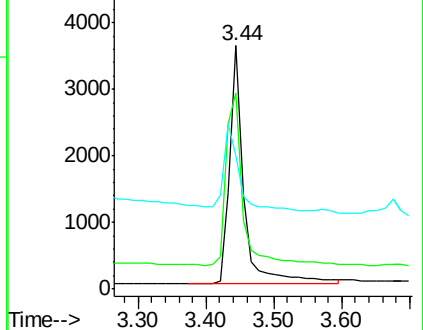
43 39.3 27.2 40.8

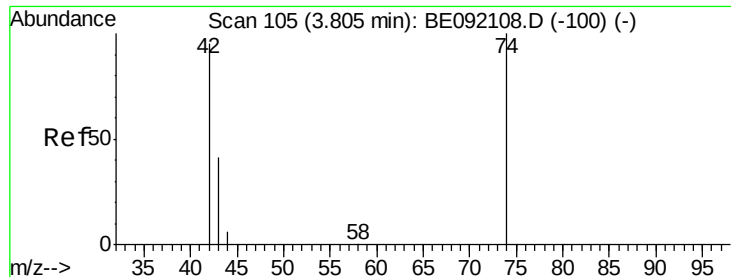


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 3.63 ng

RT: 3.78 min Scan# 103

Delta R.T. -0.03 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

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PB92633BS

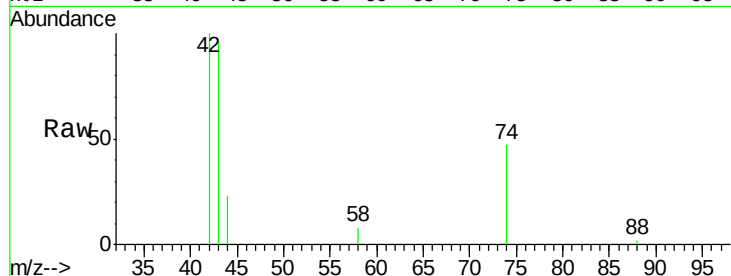
Tgt Ion: 42 Resp: 9009

Ion Ratio Lower Upper

42 100

74 83.1 82.8 124.2

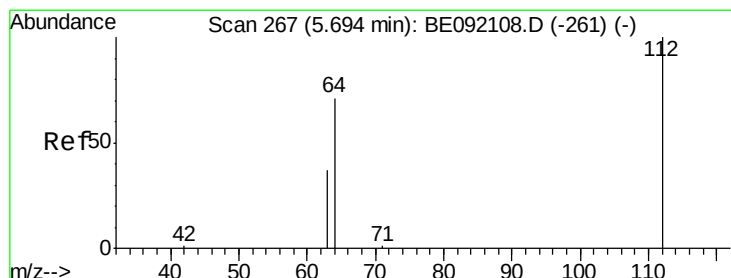
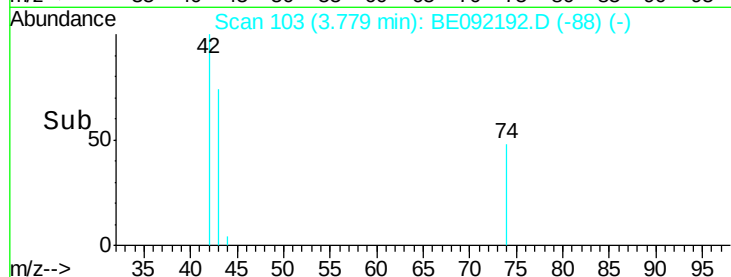
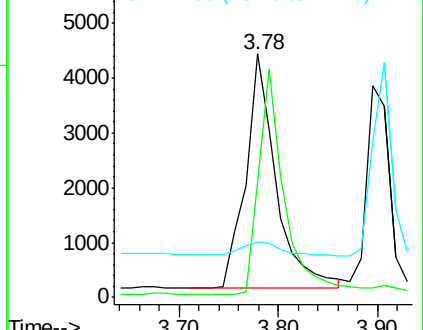
44 7.2 9.0 13.4#



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: 6.86 ng

RT: 5.69 min Scan# 267

Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

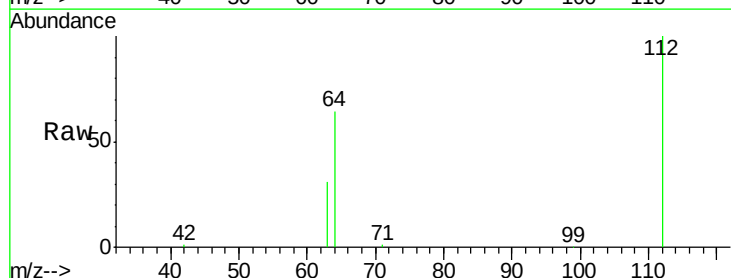
Tgt Ion: 112 Resp: 23298

Ion Ratio Lower Upper

112 100

64 66.8 55.9 83.9

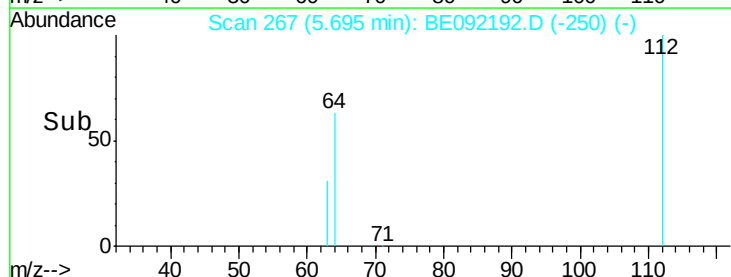
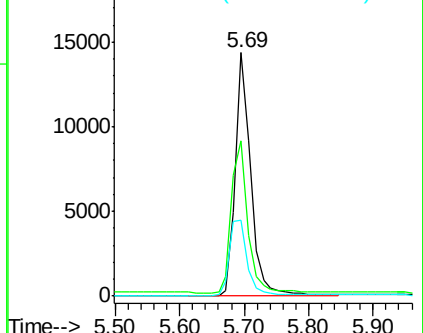
63 36.4 31.1 46.7

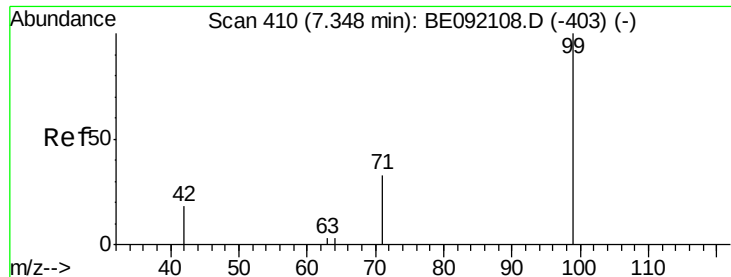


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 6.37 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS

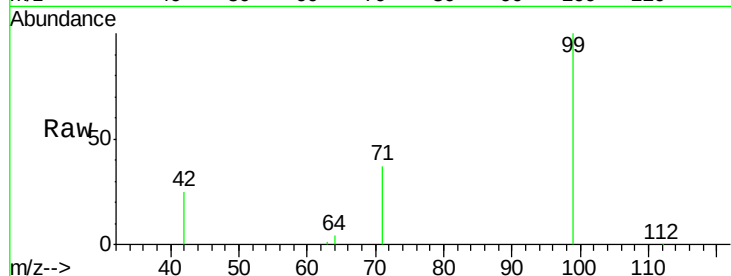
Tgt Ion: 99 Resp: 28815

Ion Ratio Lower Upper

99 100

42 26.1 22.4 33.6

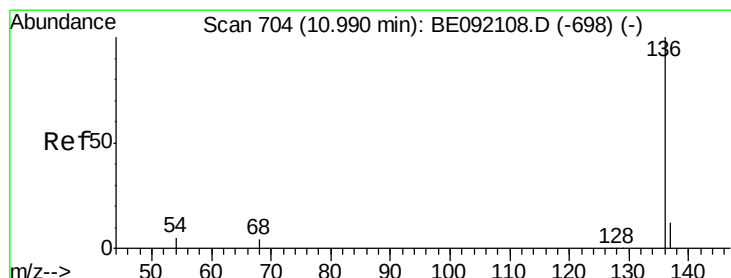
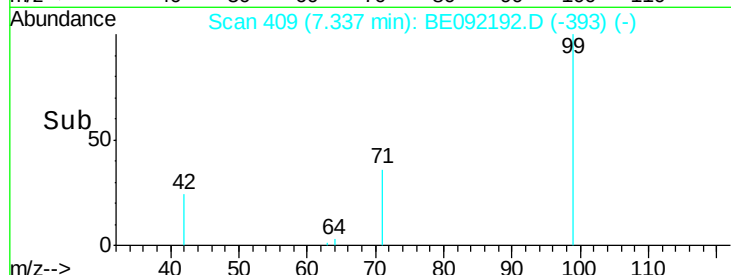
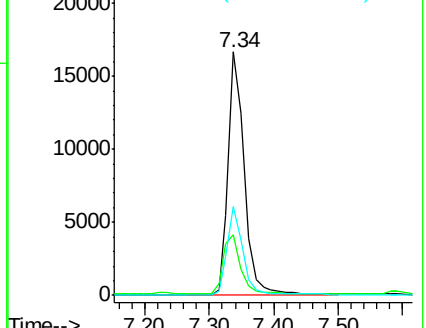
71 35.2 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BE092108.D (-403) (-)

Ion 42.00 (41.70 to 42.70): BE092108.D (-403) (-)

Ion 71.00 (70.70 to 71.70): BE092108.D (-403) (-)



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Tgt Ion: 136 Resp: 57906

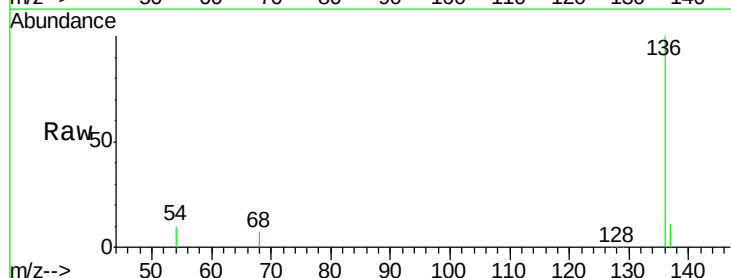
Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 9.5 2.7 4.1#

68 6.7 2.2 3.4#

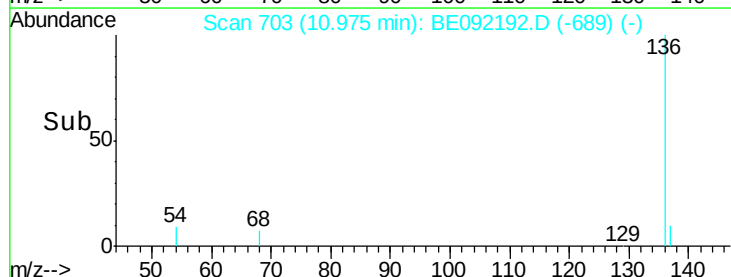
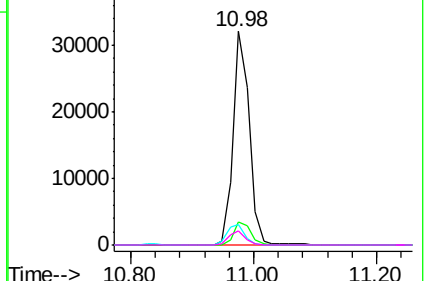


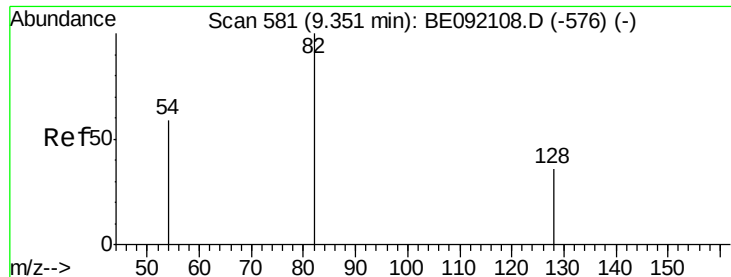
Abundance Ion 136.00 (135.70 to 136.70): BE092108.D (-698) (-)

Ion 137.00 (136.70 to 137.70): BE092108.D (-698) (-)

Ion 54.00 (53.70 to 54.70): BE092108.D (-698) (-)

Ion 68.00 (67.70 to 68.70): BE092108.D (-698) (-)





#7

Nitrobenzene-d5

Concen: 3.03 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS

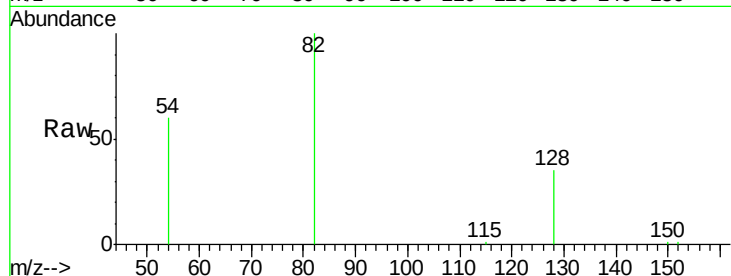
Tgt Ion: 82 Resp: 13851

Ion Ratio Lower Upper

82 100

128 35.5 33.0 49.4

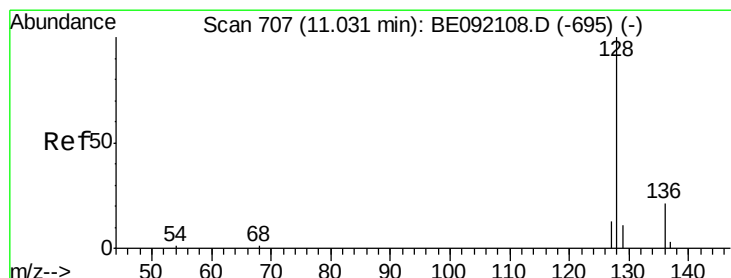
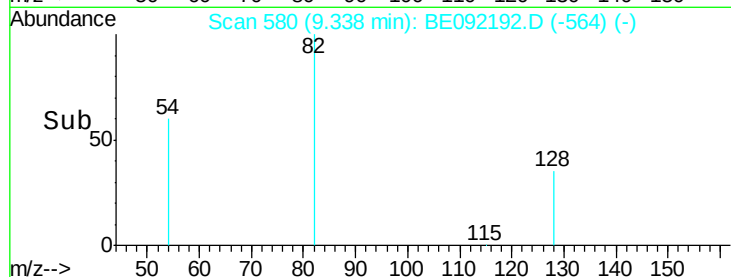
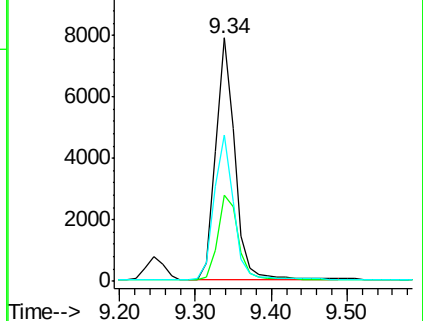
54 59.9 42.6 63.8



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

Naphthalene

Concen: 3.10 ng

RT: 11.03 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

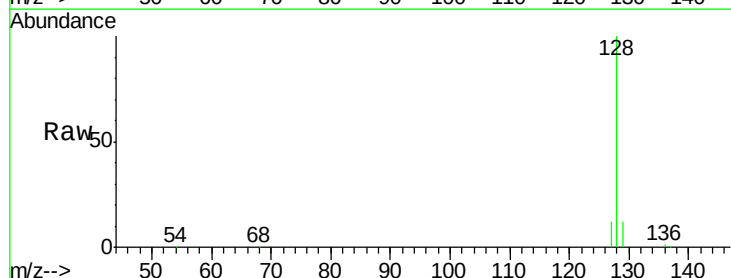
Tgt Ion: 128 Resp: 38563

Ion Ratio Lower Upper

128 100

129 11.6 11.1 16.7

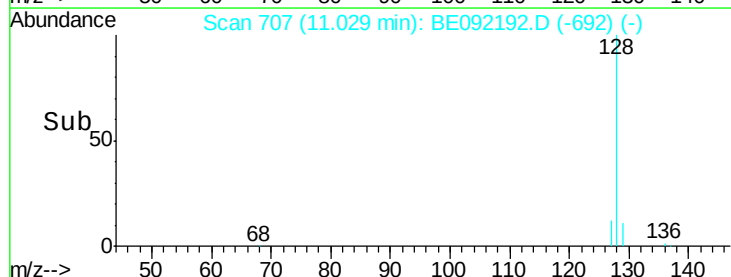
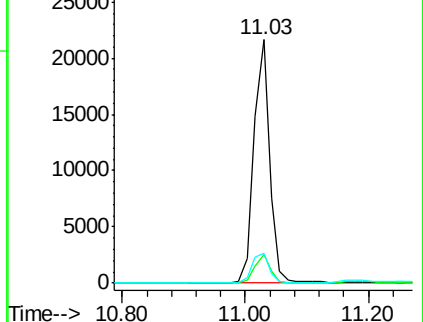
127 12.2 11.3 16.9

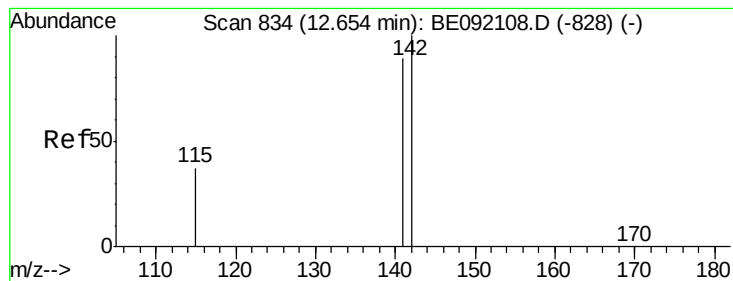


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#9

2-Methylnaphthalene

Concen: 3.14 ng

RT: 12.64 min Scan# 833

Delta R.T. -0.01 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS

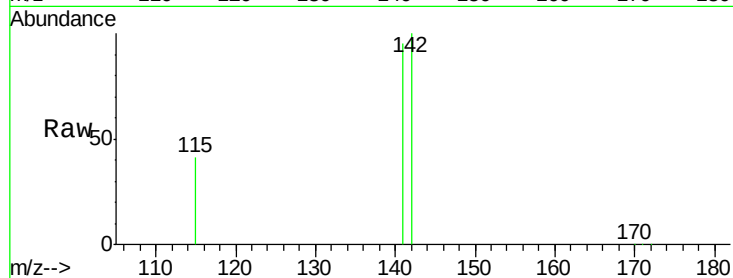
Tgt Ion:142 Resp: 25838

Ion Ratio Lower Upper

142 100

141 94.6 65.1 97.7

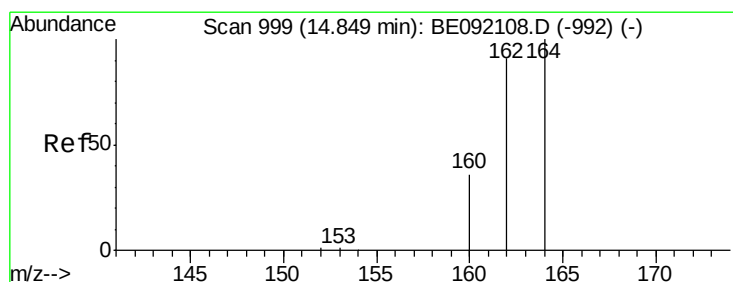
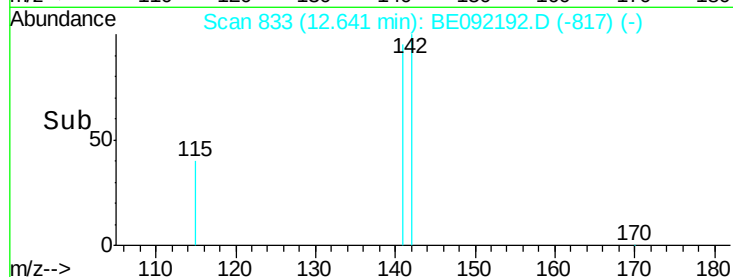
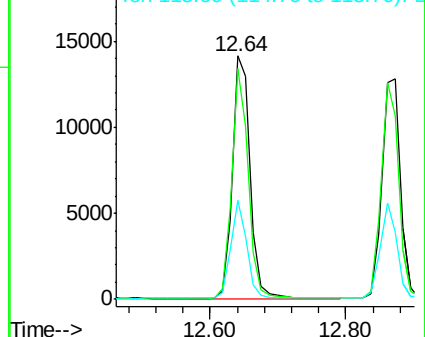
115 40.7 27.0 40.4#



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



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 998

Delta R.T. -0.02 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

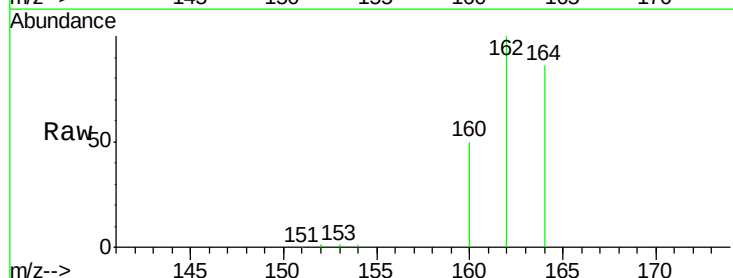
Tgt Ion:164 Resp: 27062

Ion Ratio Lower Upper

164 100

162 115.8 69.5 104.3#

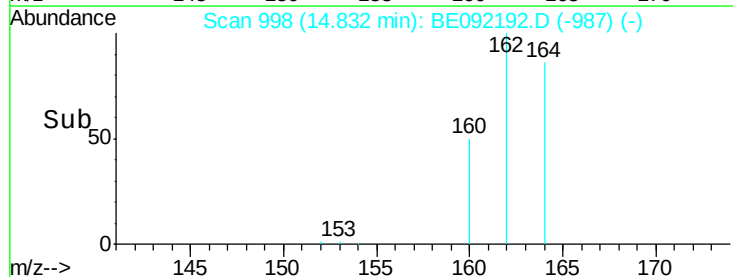
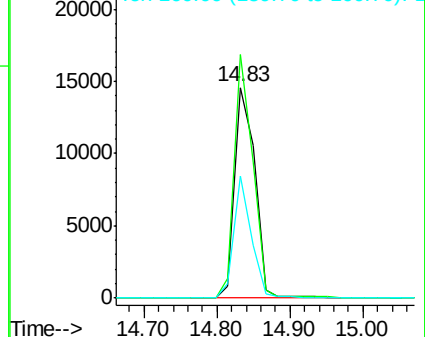
160 57.7 27.6 41.4#

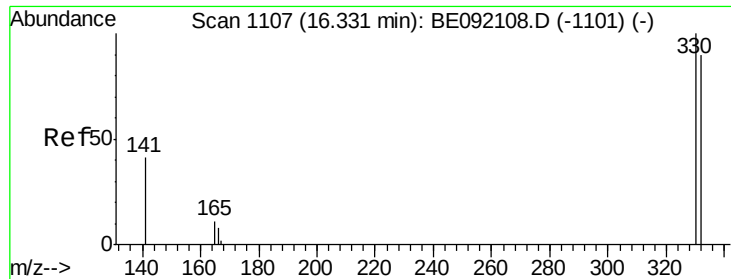


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

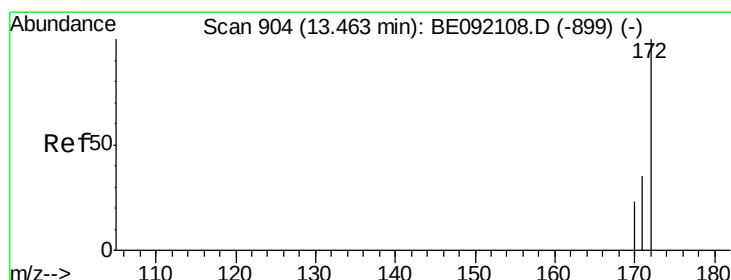
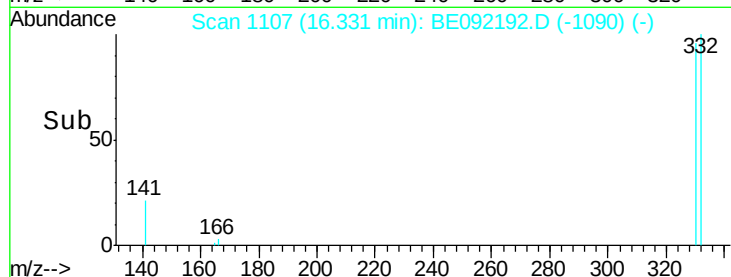
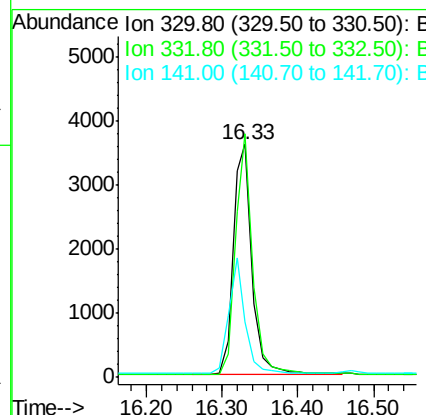
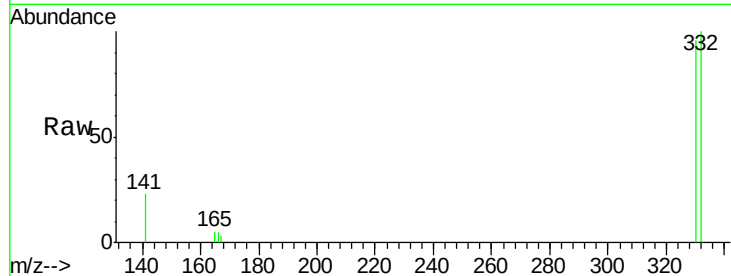




#11  
 2,4,6-Tribromophenol  
 Concen: 7.19 ng  
 RT: 16.33 min Scan# 1107  
 Delta R.T. 0.00 min  
 Lab File: BE092192.D  
 Acq: 4 Aug 2016 21:11

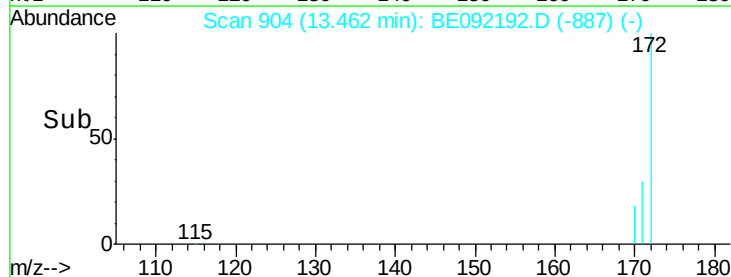
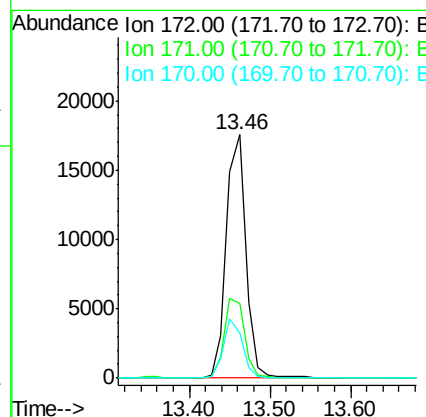
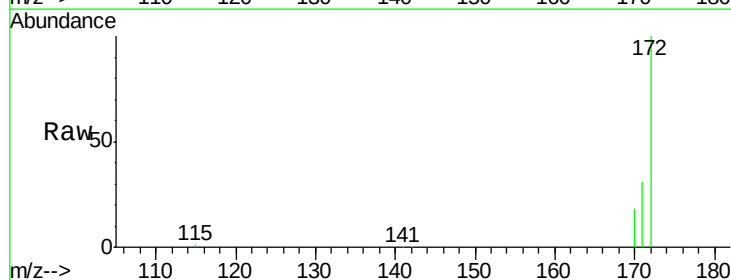
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB92633BS

Tgt Ion:330 Resp: 6319  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 74.2 111.4  
 141 44.5 139.8 209.8#

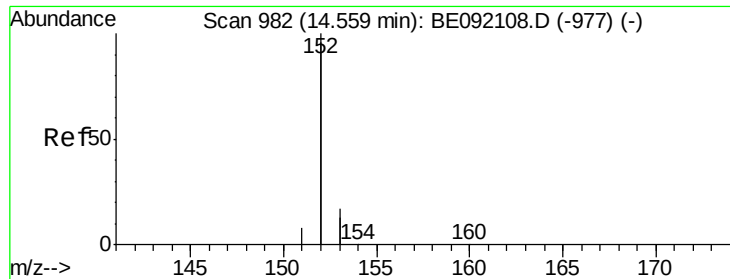


#12  
 2-Fluorobiphenyl  
 Concen: 3.41 ng  
 RT: 13.46 min Scan# 904  
 Delta R.T. -0.00 min  
 Lab File: BE092192.D  
 Acq: 4 Aug 2016 21:11

Tgt Ion:172 Resp: 29246  
 Ion Ratio Lower Upper  
 172 100  
 171 30.7 30.3 45.5  
 170 18.4 21.6 32.4#







#13

Acenaphthylene

Concen: 2.46 ng

RT: 14.54 min Scan# 981

Delta R.T. -0.02 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS

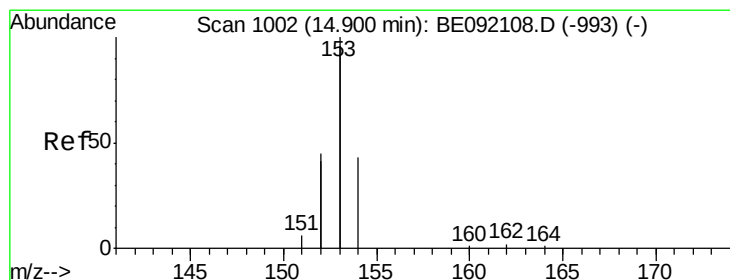
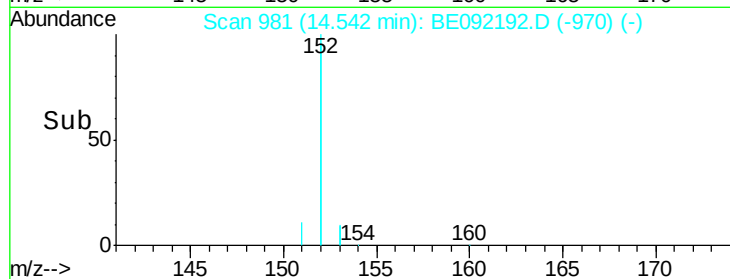
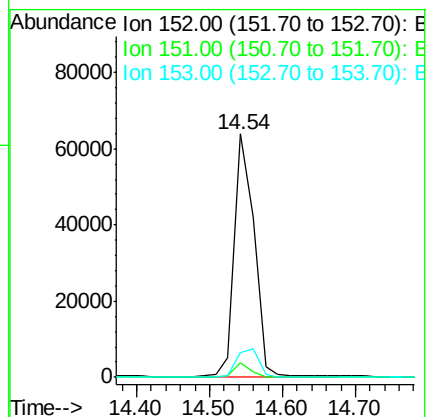
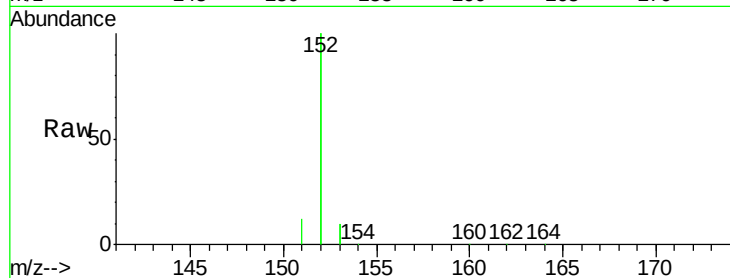
Tgt Ion:152 Resp: 117499

Ion Ratio Lower Upper

152 100

151 4.9 4.0 6.0

153 13.0 9.6 14.4



#14

Acenaphthene

Concen: 2.97 ng

RT: 14.90 min Scan# 1002

Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

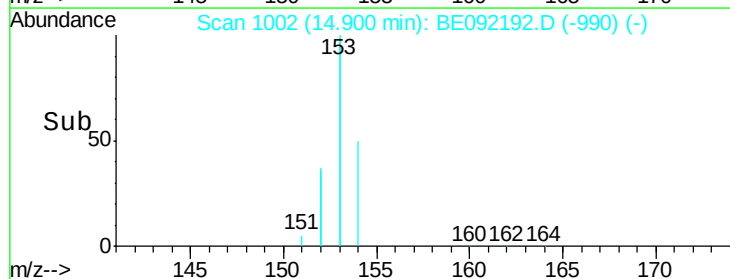
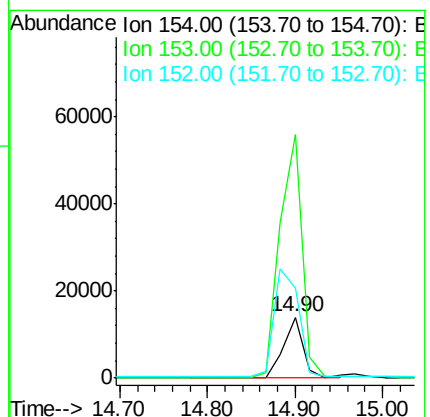
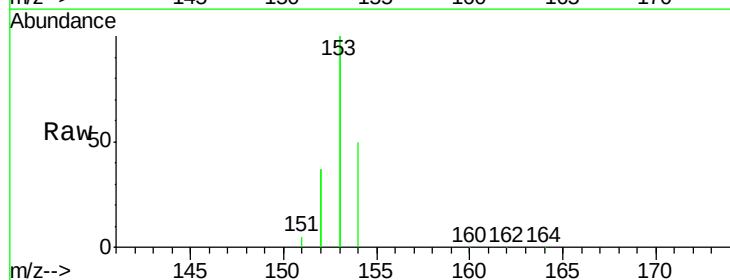
Tgt Ion:154 Resp: 22621

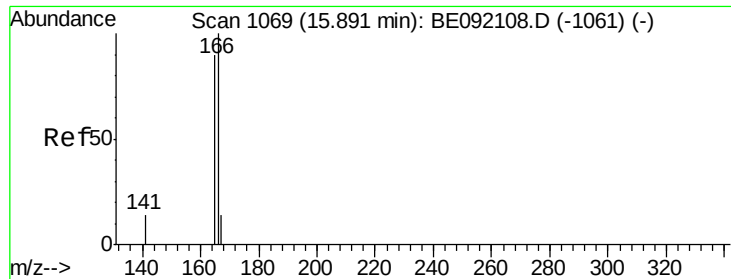
Ion Ratio Lower Upper

154 100

153 441.4 345.1 517.7

152 218.2 0.0 0.0#





#15

Fluorene

Concen: 3.05 ng

RT: 15.88 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS

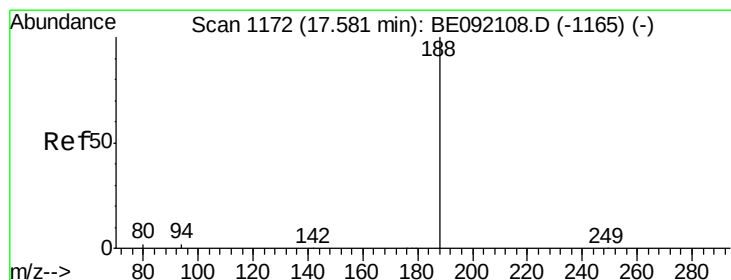
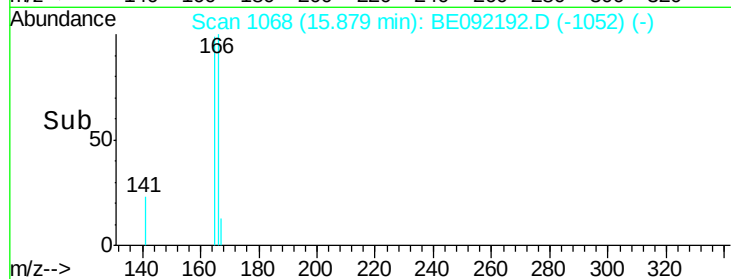
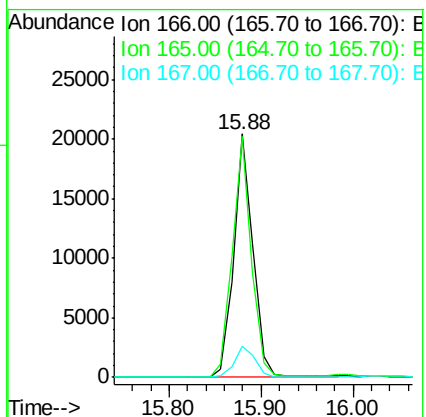
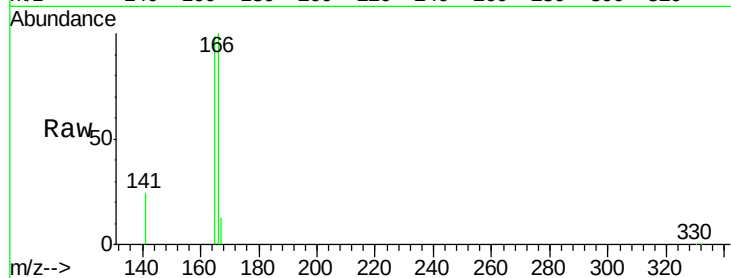
Tgt Ion:166 Resp: 29475

Ion Ratio Lower Upper

166 100

165 98.1 78.6 118.0

167 13.4 11.1 16.7



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1171

Delta R.T. -0.02 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

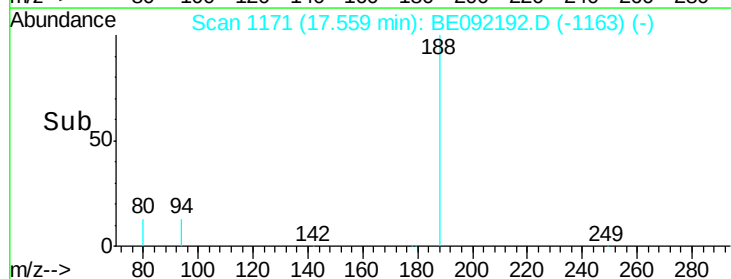
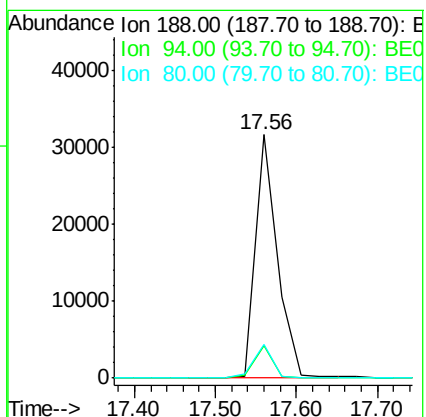
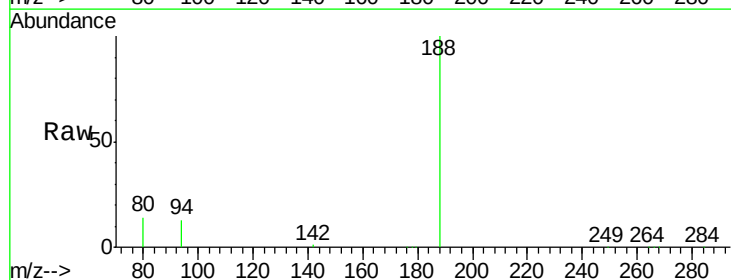
Tgt Ion:188 Resp: 59267

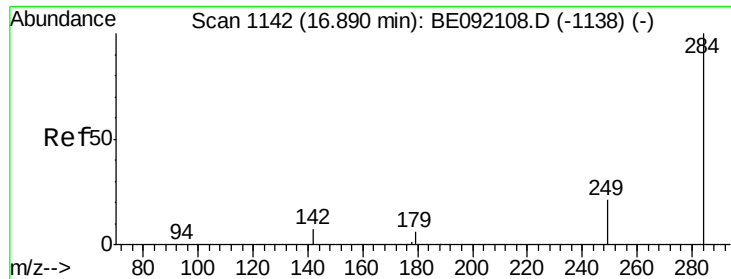
Ion Ratio Lower Upper

188 100

94 13.3 3.9 5.9#

80 13.6 3.4 5.0#





#17

Hexachlorobenzene

Concen: 2.79 ng

RT: 16.89 min Scan# 1142

Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS

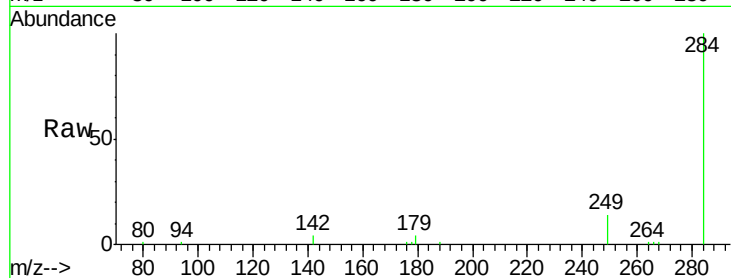
Tgt Ion:284 Resp: 8094

Ion Ratio Lower Upper

284 100

142 0.0 33.3 49.9#

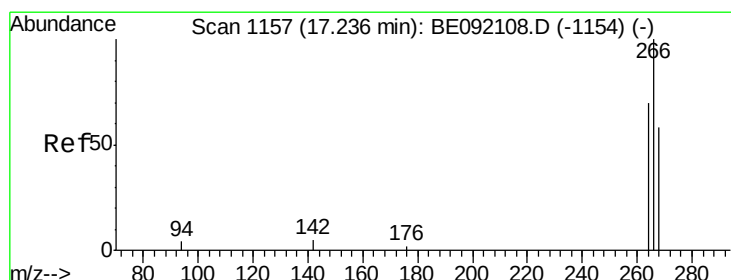
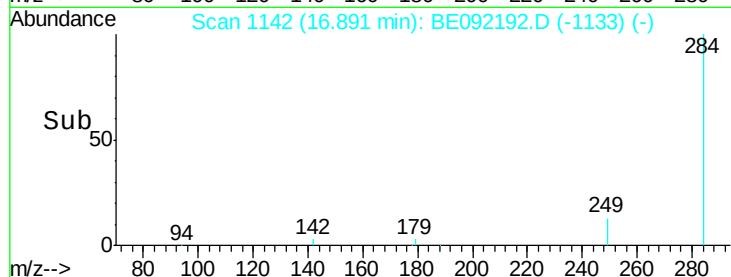
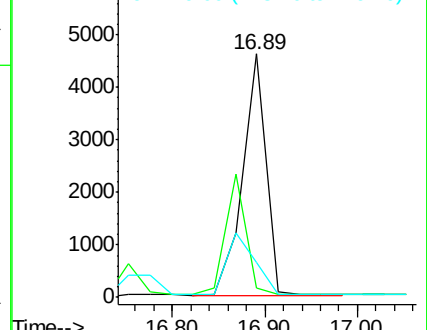
249 0.0 25.4 38.0#



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



#18

Pentachlorophenol

Concen: 6.20 ng

RT: 17.24 min Scan# 1157

Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

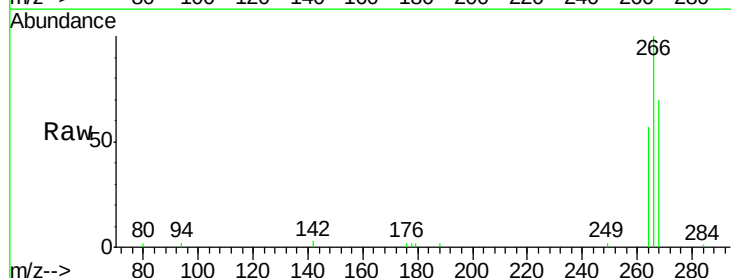
Tgt Ion:266 Resp: 6714

Ion Ratio Lower Upper

266 100

268 70.5 62.7 94.1

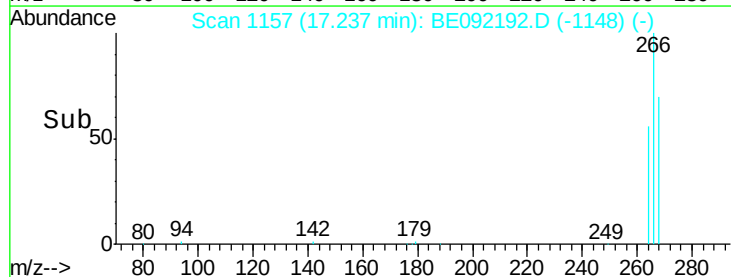
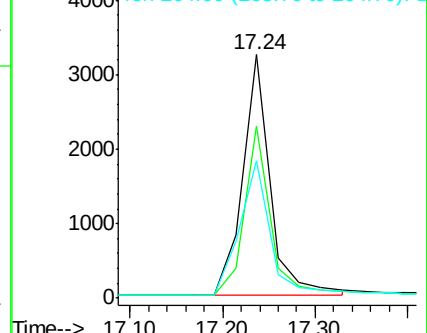
264 56.5 63.5 95.3#

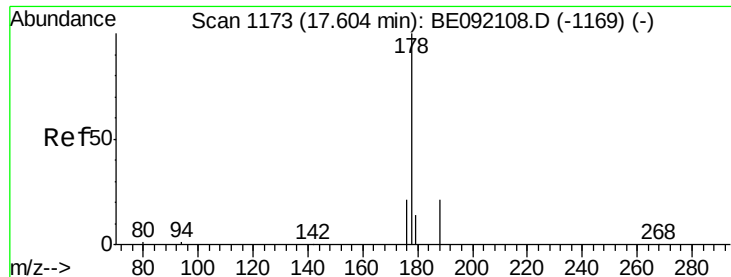


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#19

Phenanthrene

Concen: 3.19 ng

RT: 17.61 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS

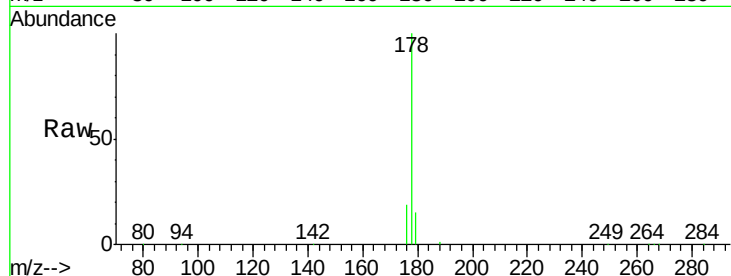
Tgt Ion:178 Resp: 51622

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.0

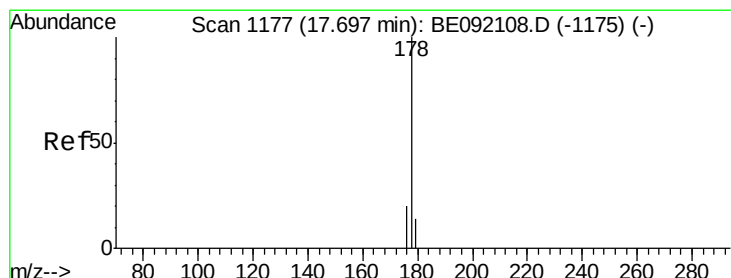
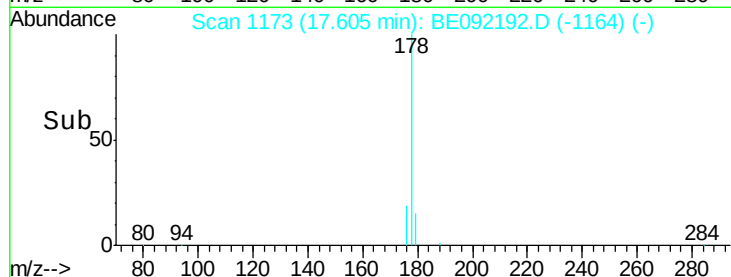
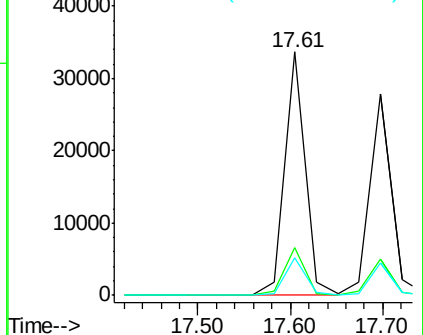
179 15.3 12.7 19.1



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



#20

Anthracene

Concen: 2.80 ng

RT: 17.70 min Scan# 1177

Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

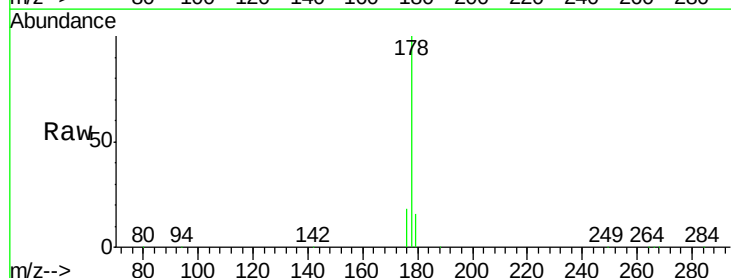
Tgt Ion:178 Resp: 44157

Ion Ratio Lower Upper

178 100

176 18.3 15.2 22.8

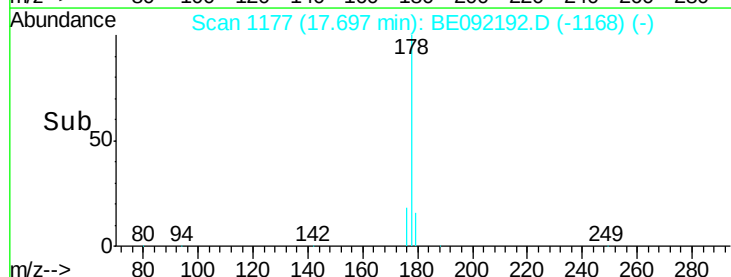
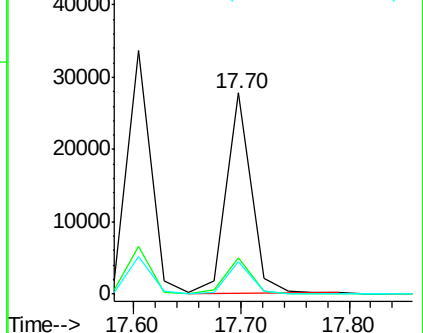
179 15.8 12.2 18.4

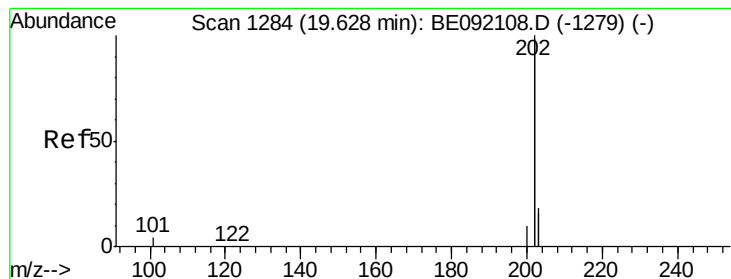


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#21

Fluoranthene

Concen: 2.67 ng

RT: 19.63 min Scan# 1284

Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS

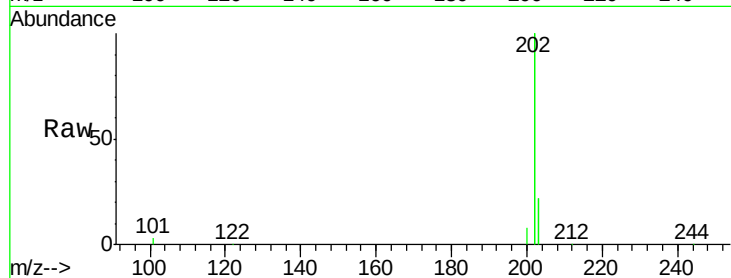
Tgt Ion:202 Resp: 193688

Ion Ratio Lower Upper

202 100

101 2.9 2.2 3.2

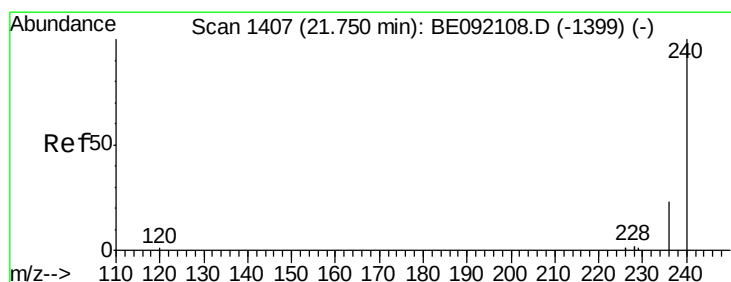
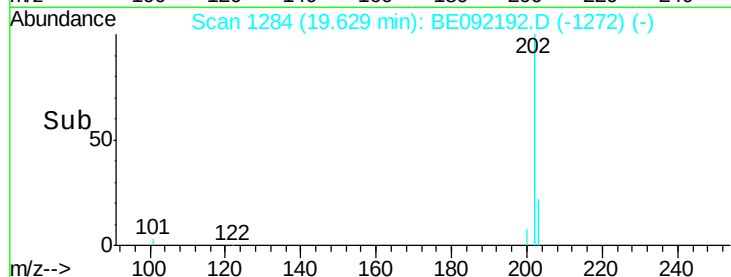
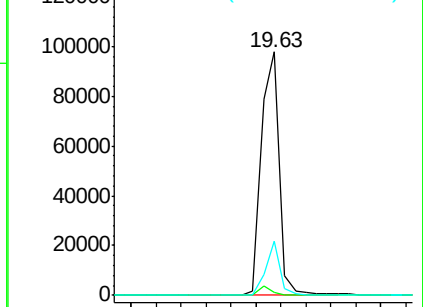
203 17.6 13.0 19.4



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



#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.73 min Scan# 1406

Delta R.T. -0.02 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

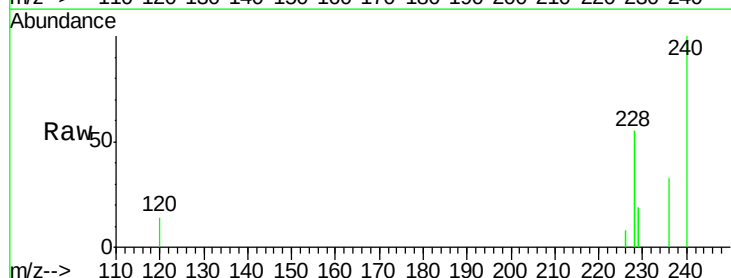
Tgt Ion:240 Resp: 59068

Ion Ratio Lower Upper

240 100

120 13.9 0.6 1.0#

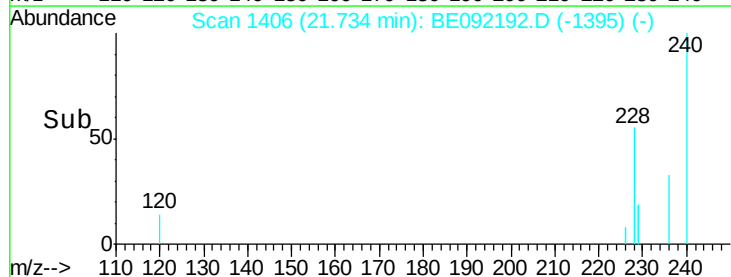
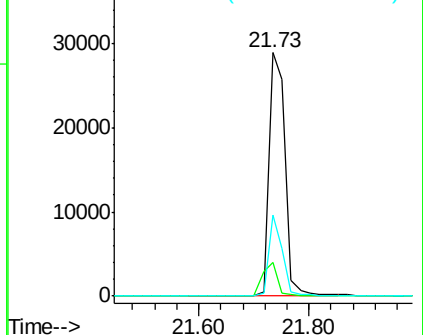
236 33.1 18.2 27.4#

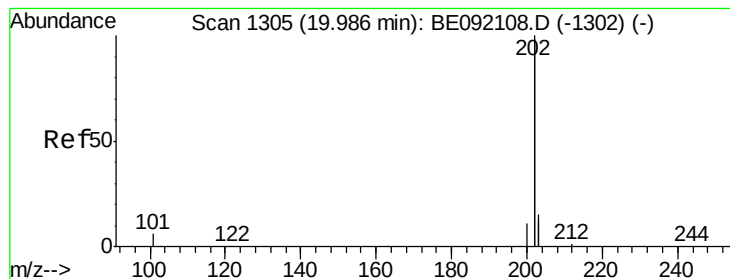


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#23

Pyrene

Concen: 2.80 ng

RT: 19.99 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS

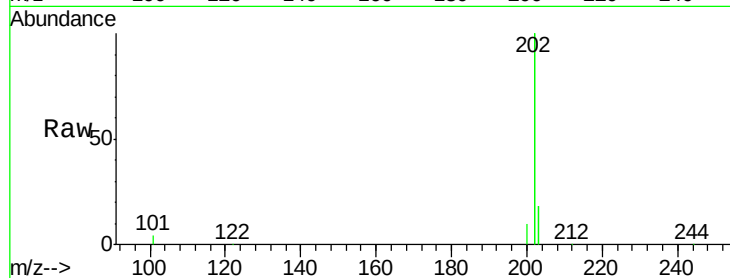
Tgt Ion:202 Resp: 173066

Ion Ratio Lower Upper

202 100

200 5.3 4.4 6.6

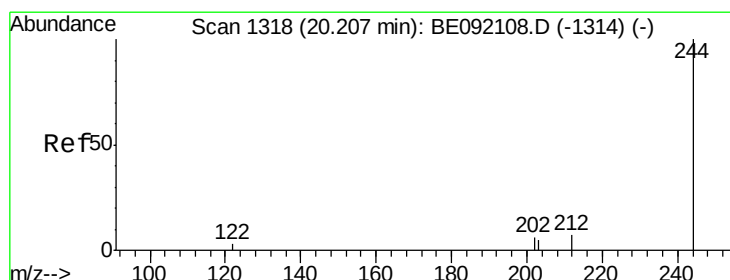
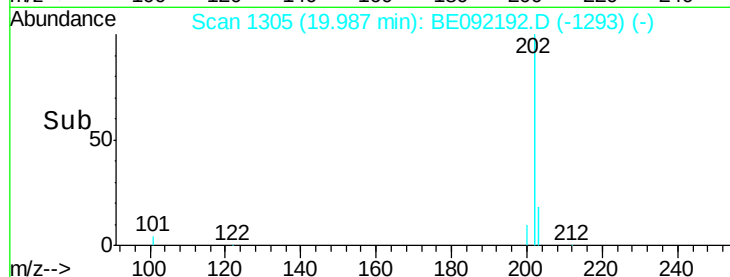
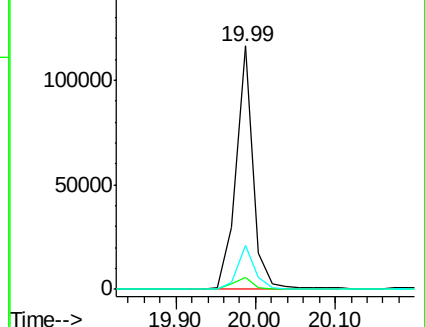
203 18.5 13.4 20.0



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



#24

Terphenyl-d14

Concen: 3.97 ng

RT: 20.19 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

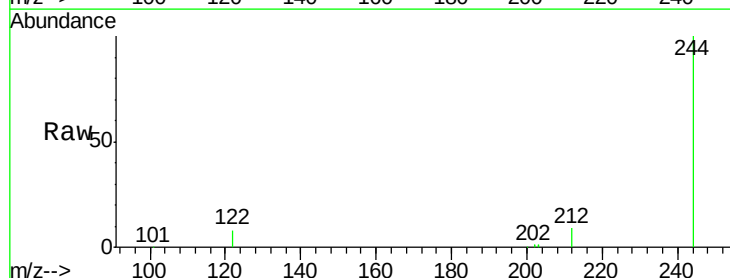
Tgt Ion:244 Resp: 33716

Ion Ratio Lower Upper

244 100

212 8.8 9.1 13.7#

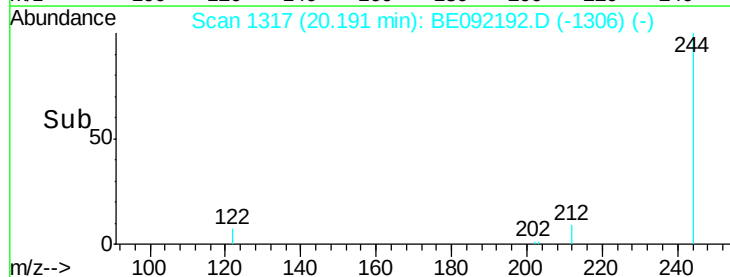
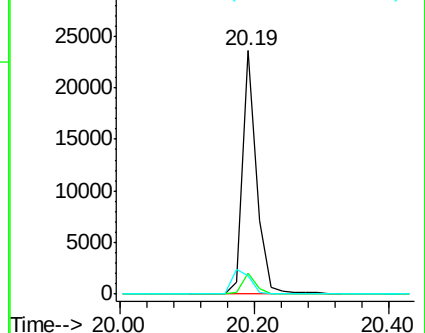
122 7.5 11.0 16.4#

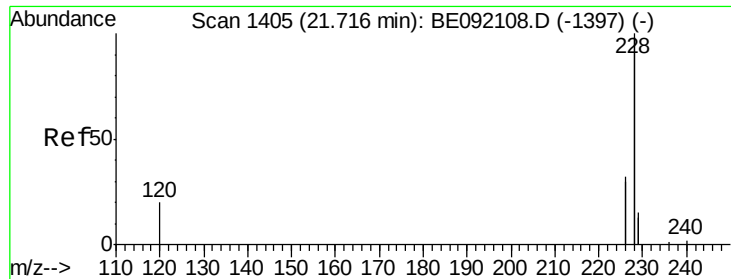


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

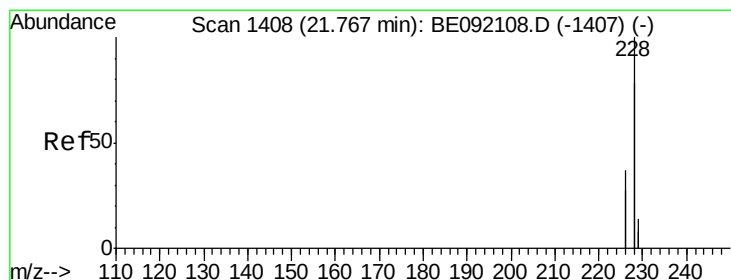
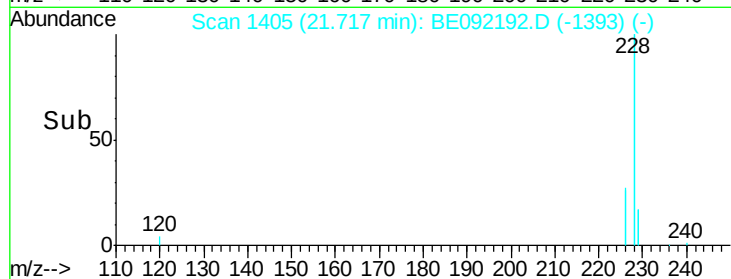
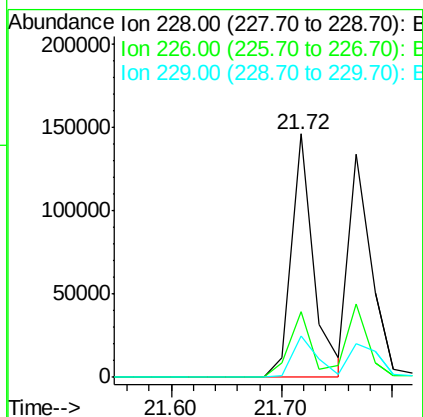
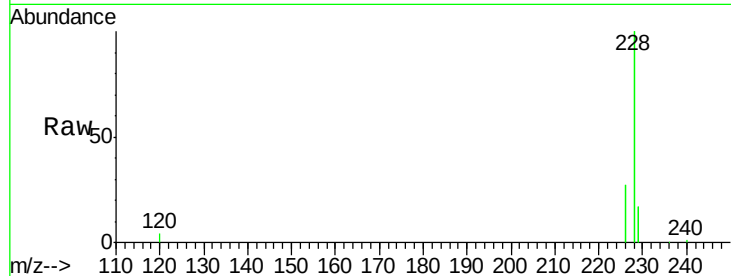




#25  
Benzo(a)anthracene  
Concen: 3.15 ng  
RT: 21.72 min Scan# 1405  
Delta R.T. 0.00 min  
Lab File: BE092192.D  
Acq: 4 Aug 2016 21:11

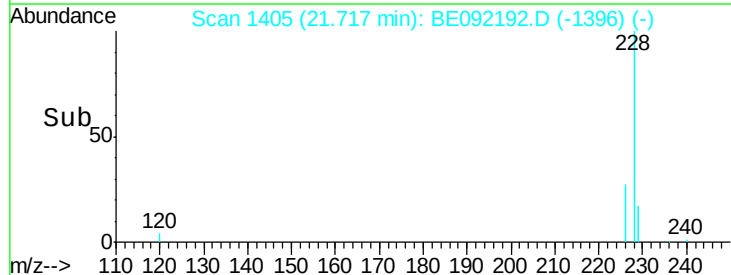
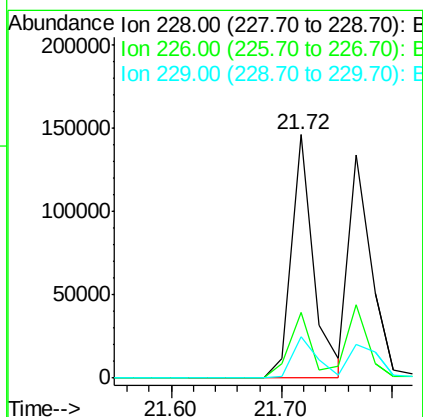
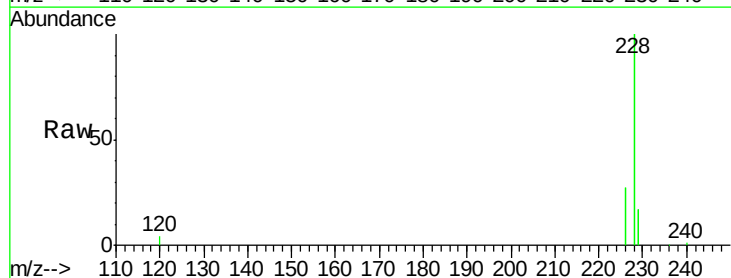
Instrument :  
BNA\_E  
ClientSampleId :  
PB92633BS

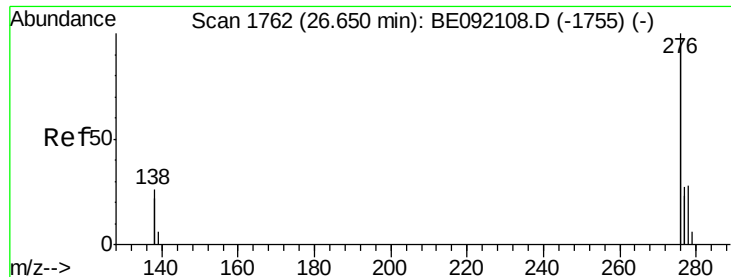
Tgt Ion:228 Resp: 204345  
Ion Ratio Lower Upper  
228 100  
226 26.8 22.1 33.1  
229 17.2 15.1 22.7



#26  
Chrysene  
Concen: 3.14 ng  
RT: 21.72 min Scan# 1405  
Delta R.T. -0.05 min  
Lab File: BE092192.D  
Acq: 4 Aug 2016 21:11

Tgt Ion:228 Resp: 204345  
Ion Ratio Lower Upper  
228 100  
226 26.8 22.3 33.5  
229 17.2 16.9 25.3

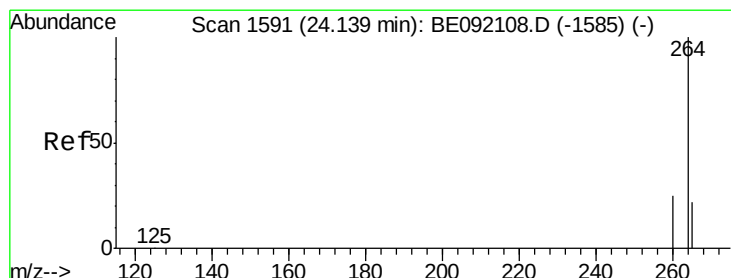
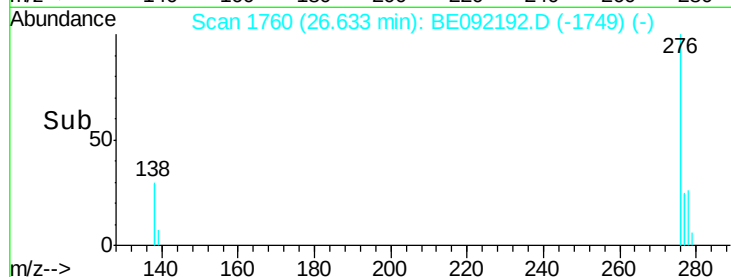
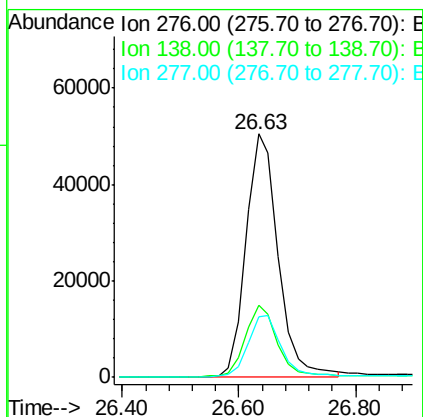
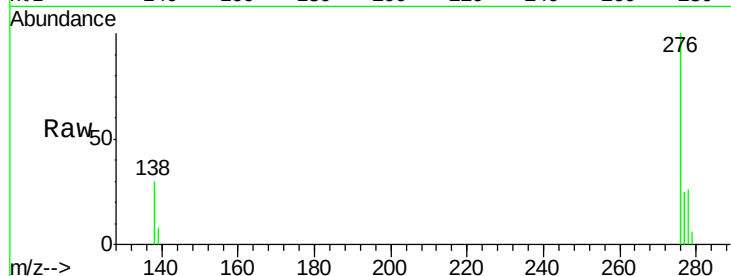




#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.72 ng  
 RT: 26.63 min Scan# 1760  
 Delta R.T. -0.02 min  
 Lab File: BE092192.D  
 Acq: 4 Aug 2016 21:11

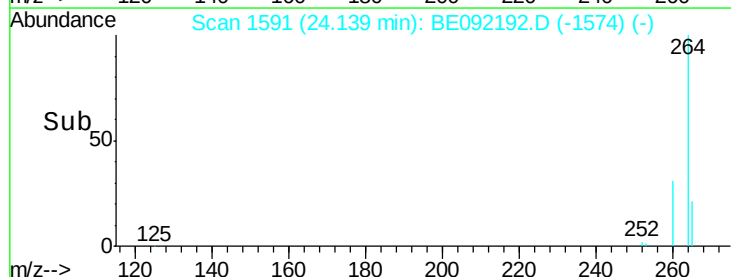
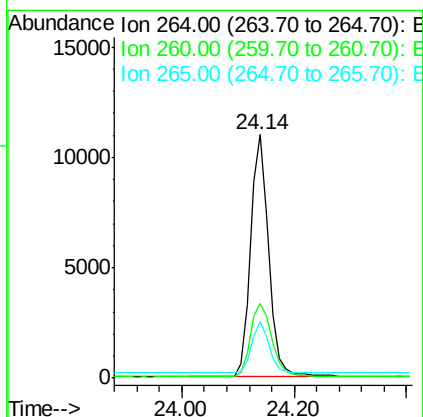
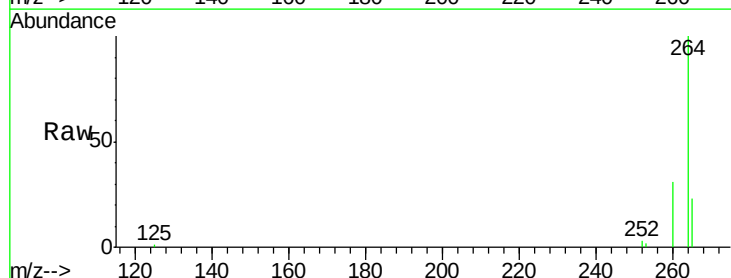
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB92633BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 28.9  | 21.2  | 31.8  |
| 277     | 25.4  | 19.8  | 29.8  |

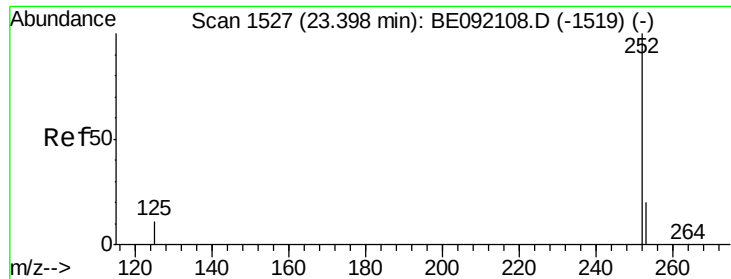


#28  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 24.14 min Scan# 1591  
 Delta R.T. 0.00 min  
 Lab File: BE092192.D  
 Acq: 4 Aug 2016 21:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 30.9  | 20.8  | 31.2  |
| 265     | 23.4  | 16.6  | 25.0  |







#29

Benzo(b)fluoranthene

Concen: 7.94 ng

RT: 23.40 min Scan# 1527

Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS

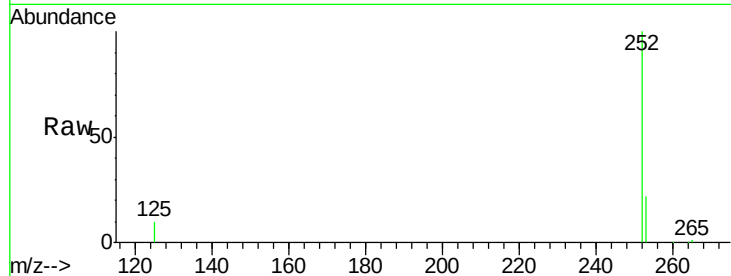
Tgt Ion:252 Resp: 54249

Ion Ratio Lower Upper

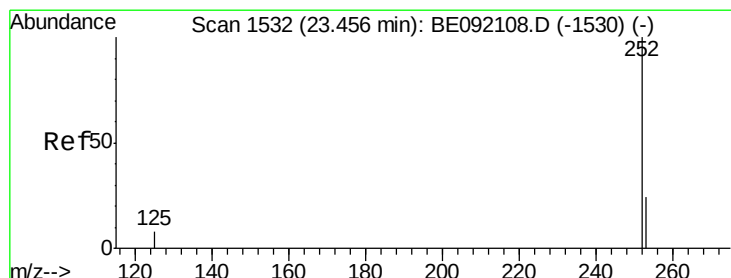
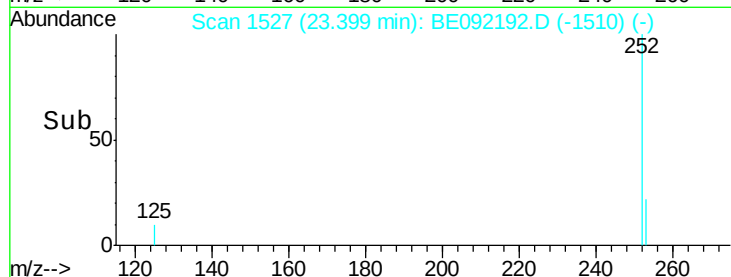
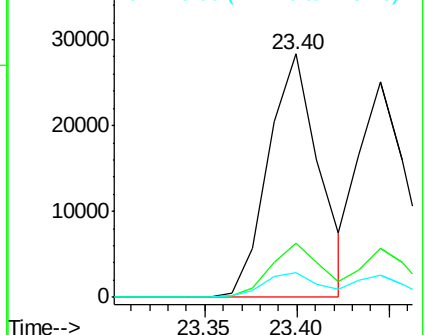
252 100

253 22.0 17.4 26.0

125 10.2 10.2 15.2



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



#30

Benzo(k)fluoranthene

Concen: 7.10 ng

RT: 23.45 min Scan# 1531

Delta R.T. -0.01 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

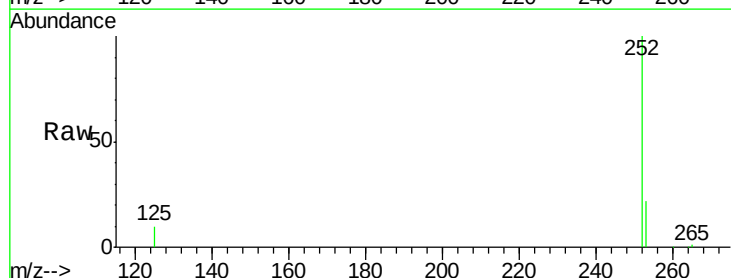
Tgt Ion:252 Resp: 46337

Ion Ratio Lower Upper

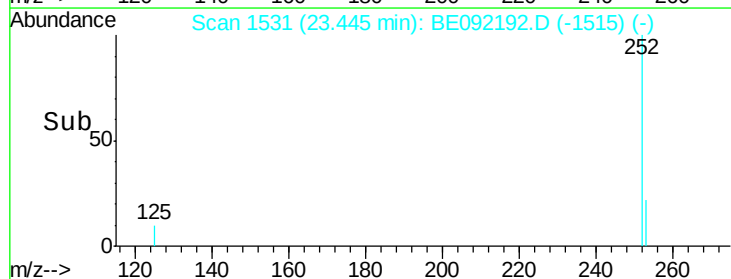
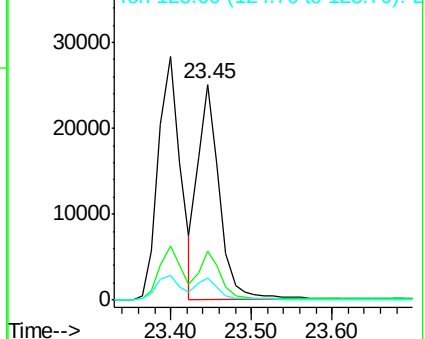
252 100

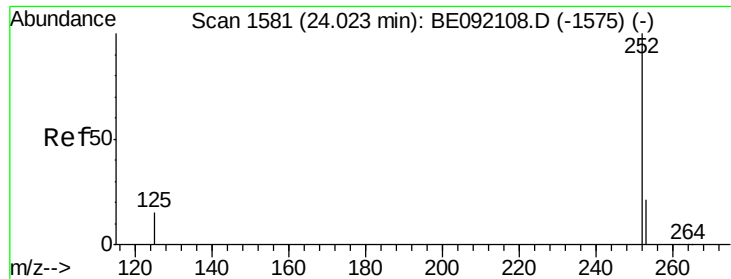
253 22.5 19.4 29.0

125 10.5 8.9 13.3



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





#31

Benzo(a)pyrene

Concen: 5.52 ng

RT: 24.02 min Scan# 1581

Delta R.T. 0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS

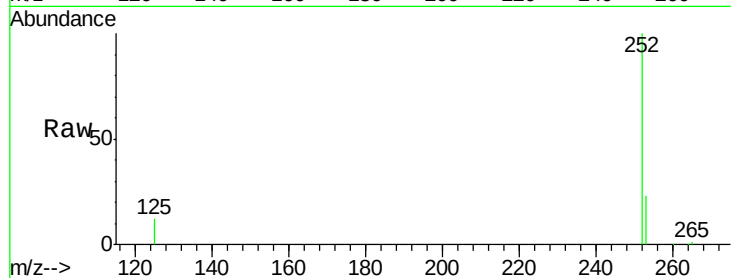
Tgt Ion:252 Resp: 34647

Ion Ratio Lower Upper

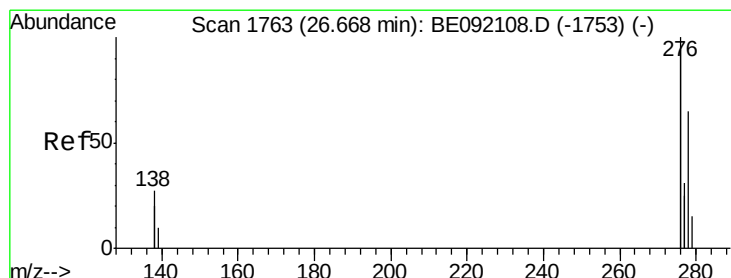
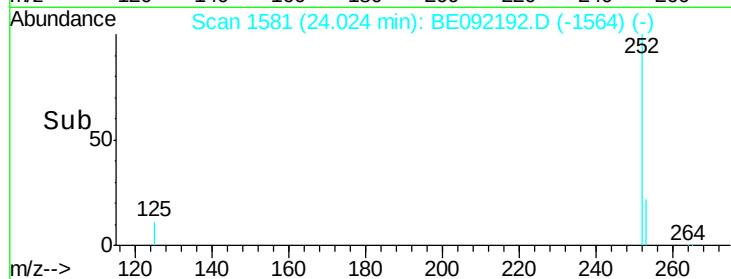
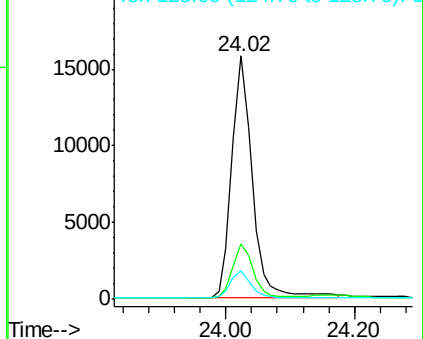
252 100

253 22.6 19.8 29.8

125 11.6 10.4 15.6



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



#32

Dibenzo(a,h)anthracene

Concen: 8.54 ng

RT: 26.67 min Scan# 1762

Delta R.T. -0.00 min

Lab File: BE092192.D

Acq: 4 Aug 2016 21:11

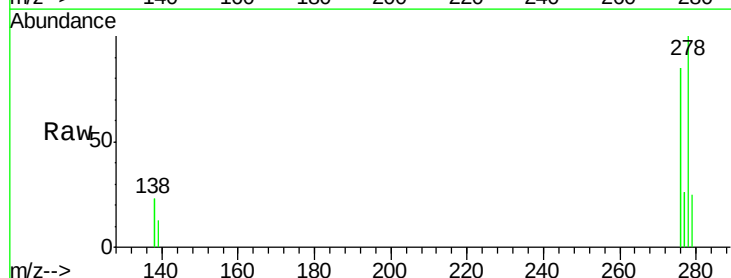
Tgt Ion:278 Resp: 51190

Ion Ratio Lower Upper

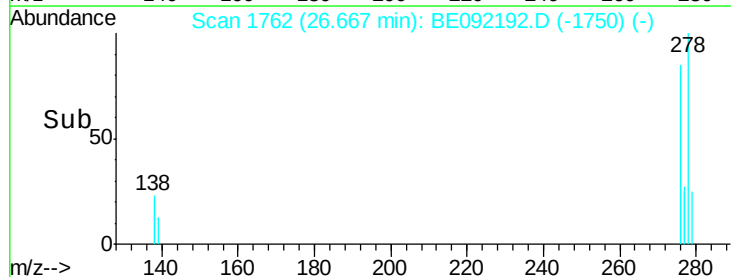
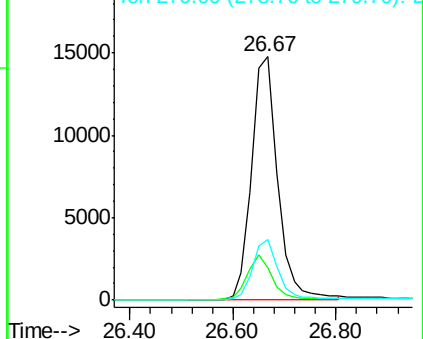
278 100

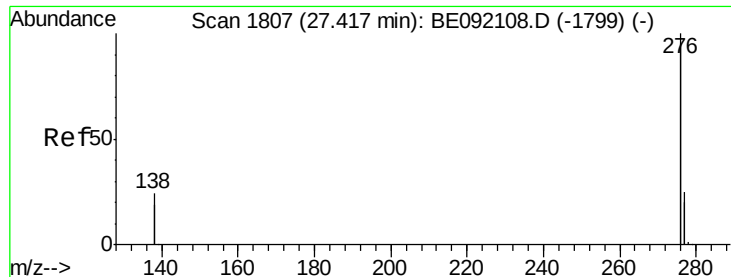
139 13.2 16.7 25.1#

279 25.0 20.3 30.5



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





#33

Benzo(g,h,i)perylene

Concen: 6.05 ng

RT: 27.40 min Scan# 1805

Delta R.T. -0.02 min

Lab File: BE092192.D

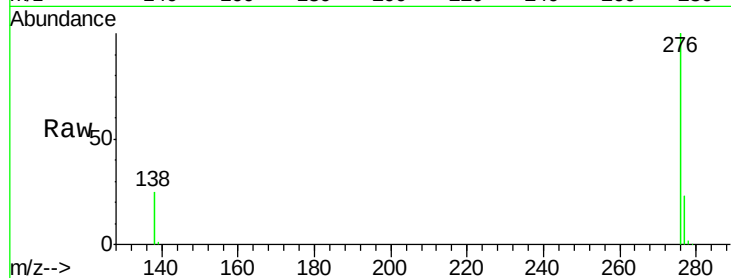
Acq: 4 Aug 2016 21:11

Instrument :

BNA\_E

ClientSampleId :

PB92633BS



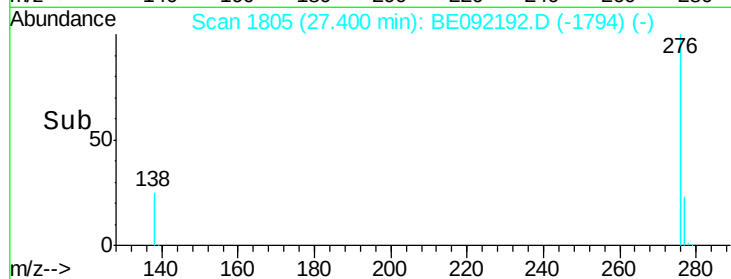
Tgt Ion: 276 Resp: 154794

Ion Ratio Lower Upper

276 100

277 23.3 19.5 29.3

138 24.7 20.8 31.2



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

