

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021517\  
 Data File : BE092742.D  
 Acq On : 15 Feb 2017 20:39  
 Operator : SJ/MA  
 Sample : I1788-03  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Feb 16 03:26:20 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE021517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 15 17:05:20 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.12  | 152  | 9612     | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.90 | 136  | 44110    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.76 | 164  | 28197    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 17.51 | 188  | 60667    | 5.00 | ng    | 0.00     |
| 24) Chrysene-d12          | 21.70 | 240  | 66235    | 5.00 | ng    | 0.00     |
| 31) Perylene-d12          | 24.03 | 264  | 66738    | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 4) 2-Fluorophenol           | 5.61  | 112  | 9420     | 5.04  | ng    | -0.02    |
| 5) Phenol-d6                | 7.29  | 99   | 7061     | 3.08  | ng    | -0.02    |
| 8) Nitrobenzene-d5          | 9.27  | 82   | 14399    | 4.84  | ng    | -0.05    |
| 13) 2,4,6-Tribromophenol    | 16.26 | 330  | 7656     | 12.79 | ng    | -0.02    |
| 14) 2-Fluorobiphenyl        | 13.38 | 172  | 35117    | 5.11  | ng    | -0.02    |
| 26) Terphenyl-d14           | 20.12 | 244  | 50213    | 5.94  | ng    | -0.02    |

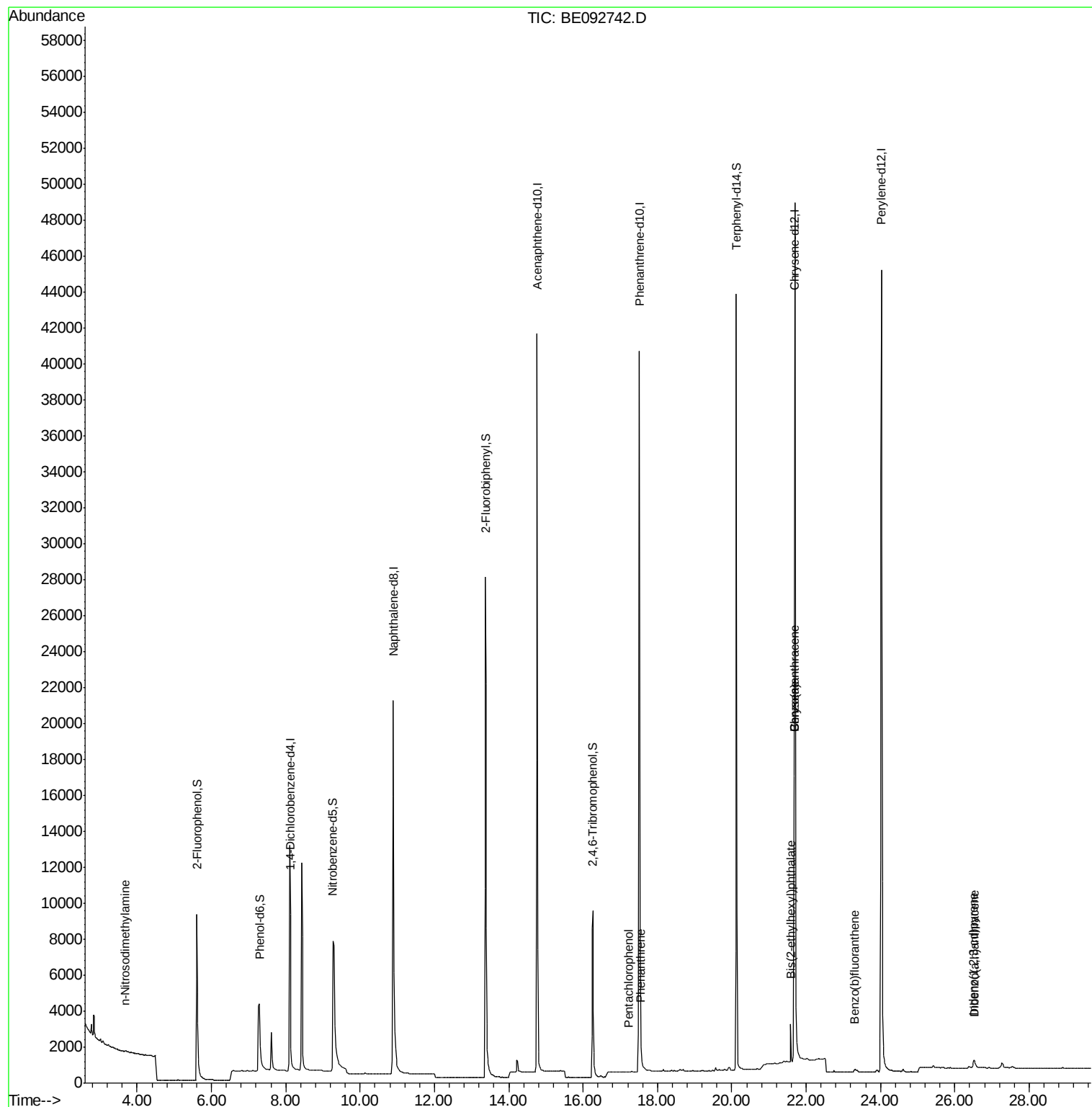
| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 3) n-Nitrosodimethylamine      | 3.67  | 42   | 32       | 0.23 | ng    | # 2    |
| 20) Pentachlorophenol          | 17.23 | 266  | 7        | 0.27 | ng    | # 69   |
| 21) Phenanthrene               | 17.56 | 178  | 323      | 0.02 | ng    | # 75   |
| 27) Benzo(a)anthracene         | 21.68 | 228  | 1641     | 0.03 | ng    | # 57   |
| 28) Chrysene                   | 21.68 | 228  | 1701     | 0.02 | ng    | # 76   |
| 29) Bis(2-ethylhexyl)phthalate | 21.59 | 149  | 2445     | 0.33 | ng    | # 75   |
| 30) Indeno(1,2,3-cd)pyrene     | 26.51 | 276  | 1219     | 0.05 | ng    | 96     |
| 32) Benzo(b)fluoranthene       | 23.31 | 252  | 286      | 0.05 | ng    | # 1    |
| 35) Dibenzo(a,h)anthracene     | 26.53 | 278  | 230      | 0.02 | ng    | # 1    |

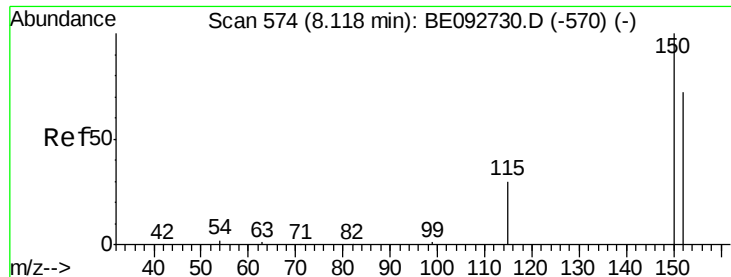
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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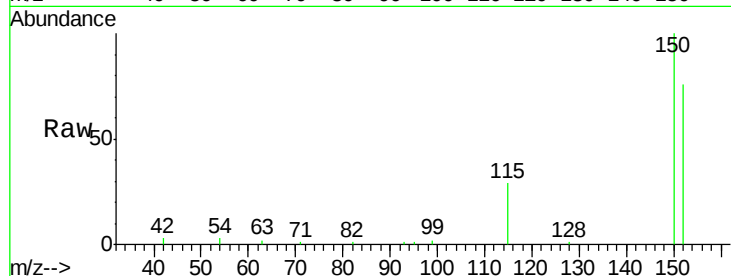


#1

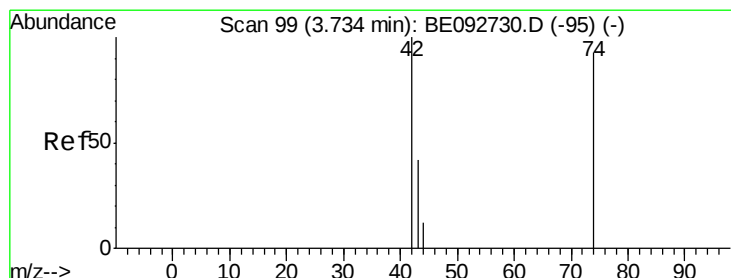
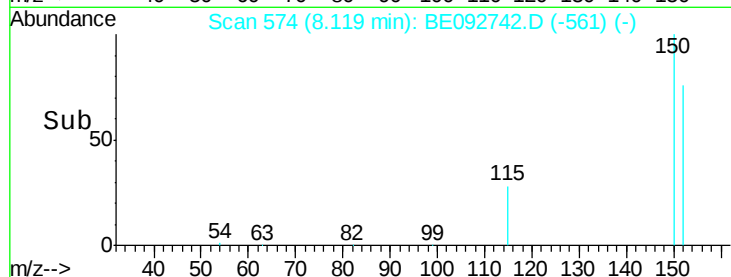
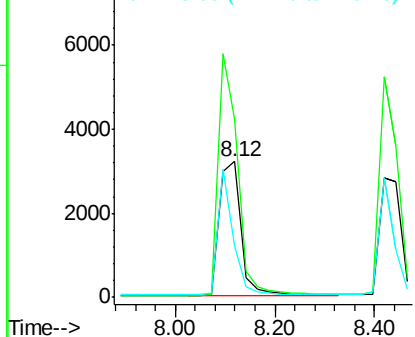
1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 8.12 min Scan# 574  
Delta R.T. 0.00 min  
Lab File: BE092742.D  
Acq: 15 Feb 2017 20:39

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 9612  
Ion Ratio Lower Upper  
152 100  
150 131.3 106.0 159.0  
115 38.1 31.2 46.8



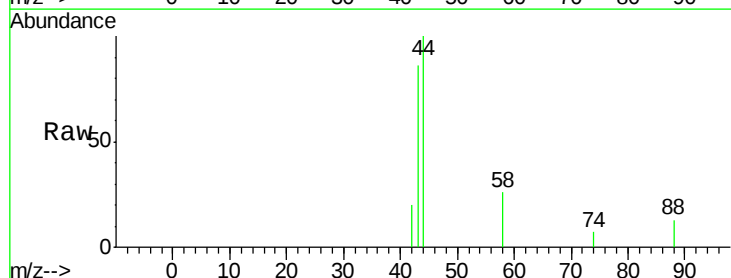
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



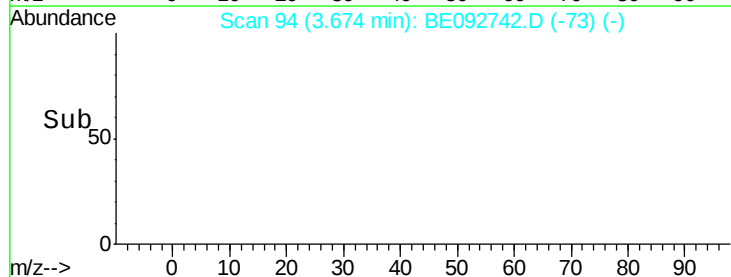
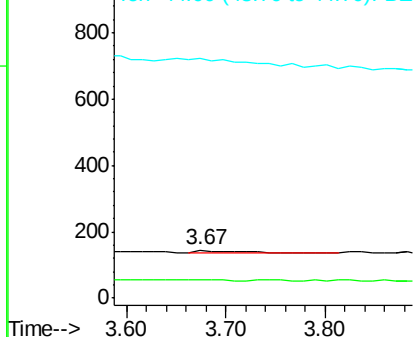
#3

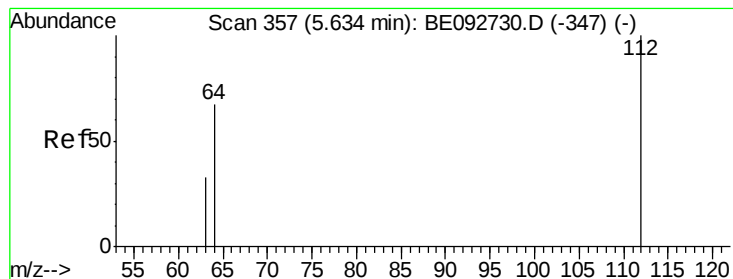
n-Nitrosodimethylamine  
Concen: 0.23 ng  
RT: 3.67 min Scan# 94  
Delta R.T. -0.06 min  
Lab File: BE092742.D  
Acq: 15 Feb 2017 20:39

Tgt Ion: 42 Resp: 32  
Ion Ratio Lower Upper  
42 100  
74 0.0 86.0 129.0#  
44 0.0 5.1 7.7#



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: 5.04 ng

RT: 5.61 min Scan# 353

Delta R.T. -0.02 min

Lab File: BE092742.D

Acq: 15 Feb 2017 20:39

Instrument :

BNA\_E

ClientSampleId :

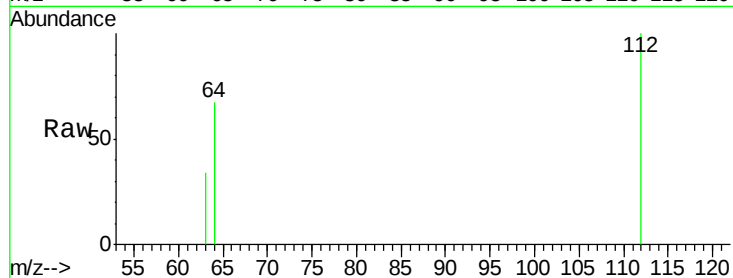
Tot Ion:112 Resp: 9420

Ion Ratio Lower Upper

112 100

64 68.3 53.5 80.3

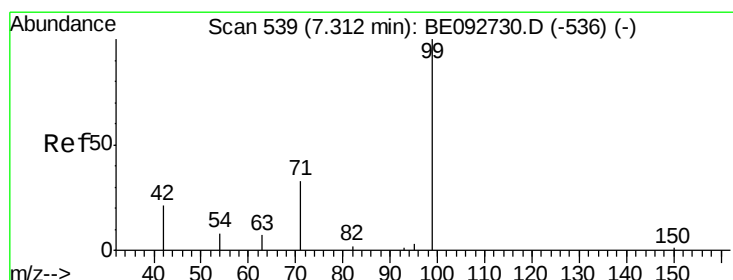
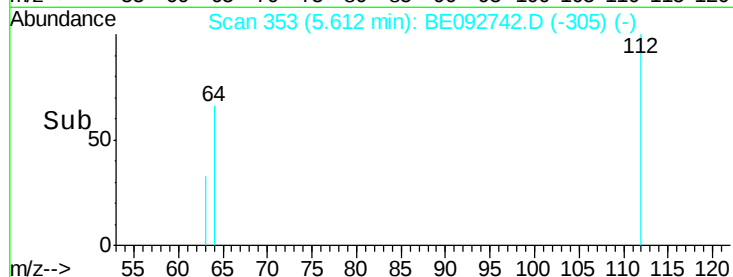
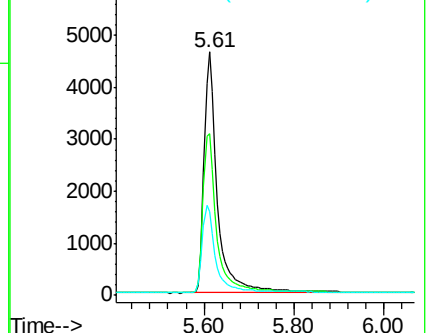
63 36.7 27.9 41.9



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: 3.08 ng

RT: 7.29 min Scan# 538

Delta R.T. -0.02 min

Lab File: BE092742.D

Acq: 15 Feb 2017 20:39

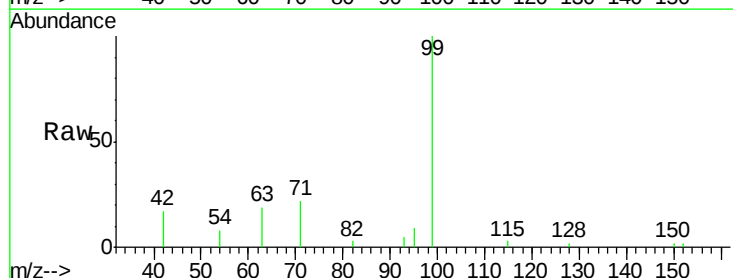
Tgt Ion: 99 Resp: 7061

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

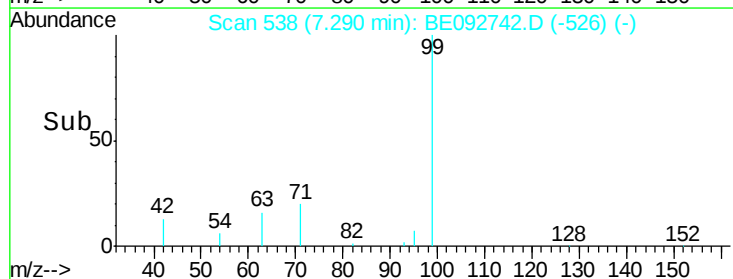
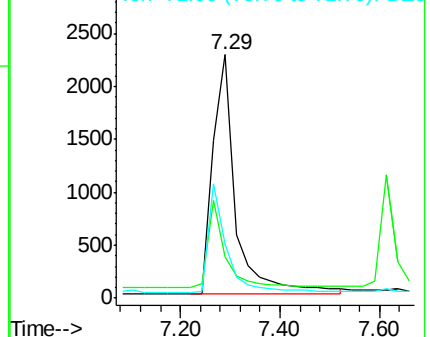
71 0.0 30.6 45.8#

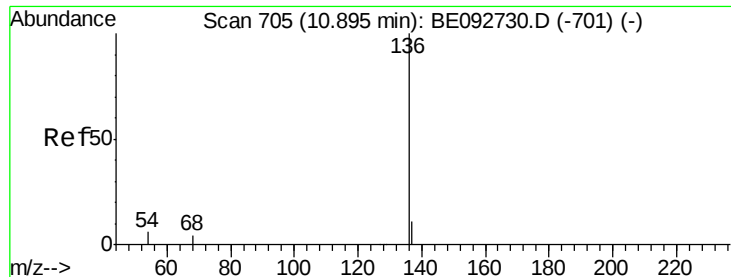


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.90 min Scan# 705

Delta R.T. 0.00 min

Lab File: BE092742.D

Acq: 15 Feb 2017 20:39

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 44110

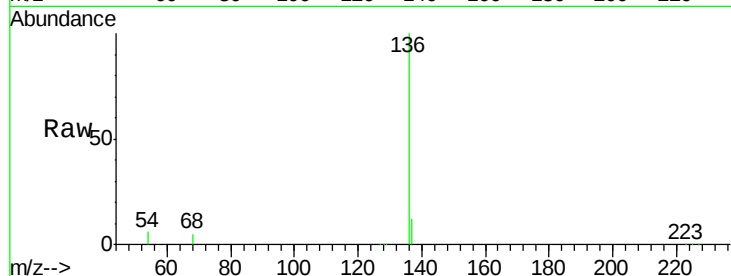
Ion Ratio Lower Upper

136 100

137 11.8 8.2 12.4

54 6.1 9.6 14.4#

68 4.6 6.7 10.1#



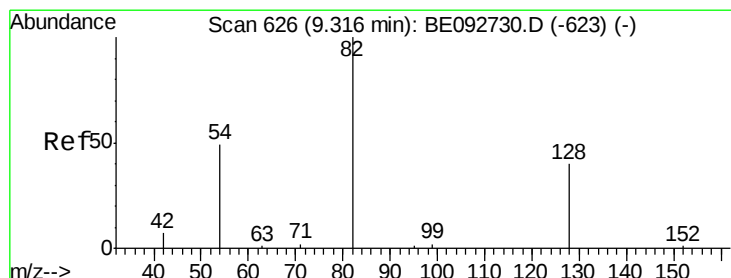
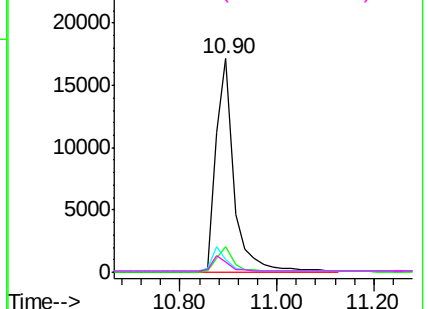
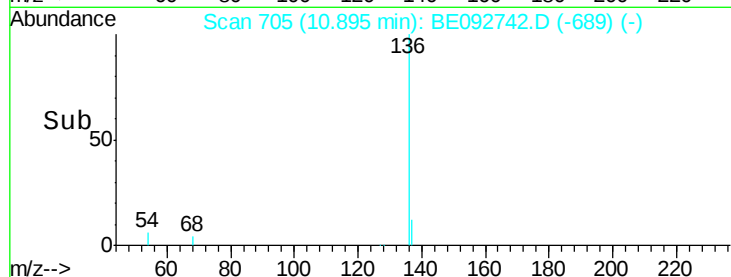
Abundance

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: 4.84 ng

RT: 9.27 min Scan# 624

Delta R.T. -0.05 min

Lab File: BE092742.D

Acq: 15 Feb 2017 20:39

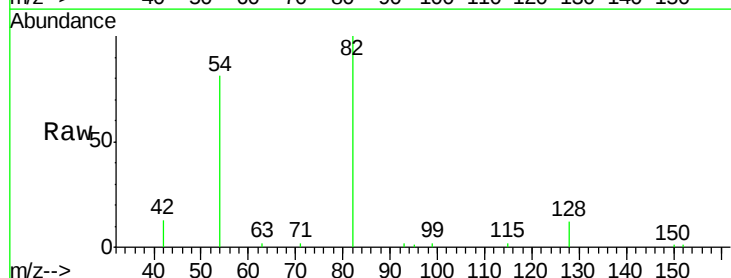
Tgt Ion: 82 Resp: 14399

Ion Ratio Lower Upper

82 100

128 11.7 39.0 58.4#

54 81.4 44.8 67.2#

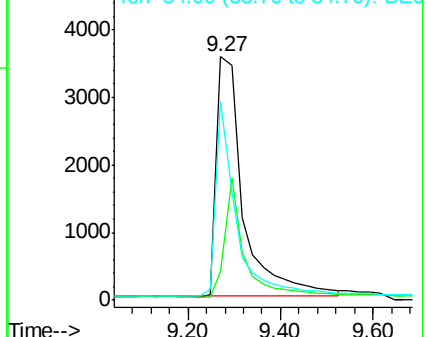
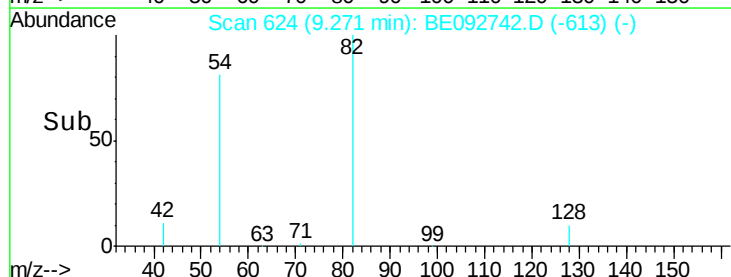


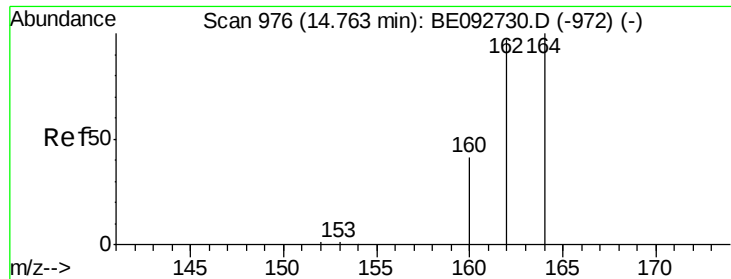
Abundance

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





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.76 min Scan# 976

Delta R.T. 0.00 min

Lab File: BE092742.D

Acq: 15 Feb 2017 20:39

Instrument :

BNA\_E

ClientSampleId :

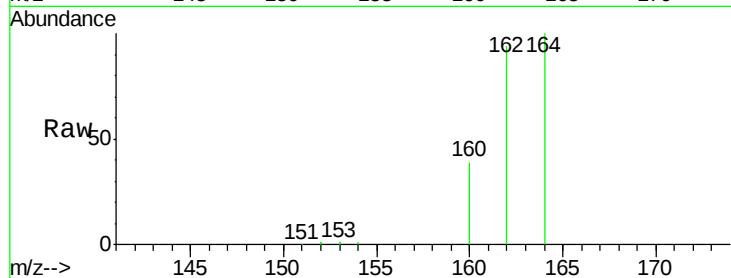
Tot Ion:164 Resp: 28197

Ion Ratio Lower Upper

164 100

162 94.0 71.4 107.0

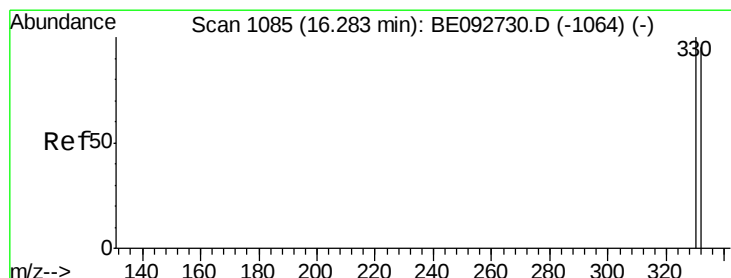
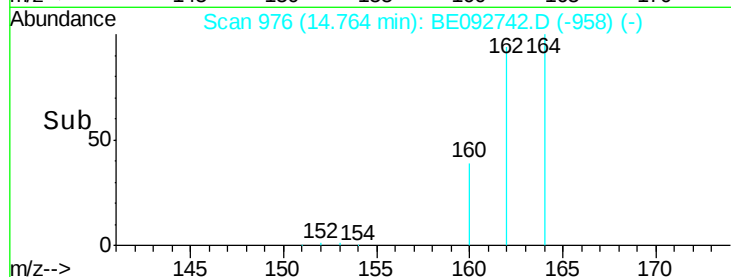
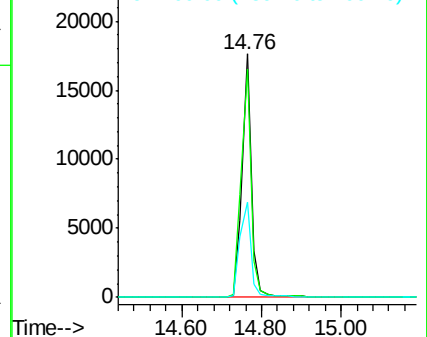
160 39.2 27.4 41.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#13

2,4,6-Tribromophenol

Concen: 12.79 ng

RT: 16.26 min Scan# 1083

Delta R.T. -0.02 min

Lab File: BE092742.D

Acq: 15 Feb 2017 20:39

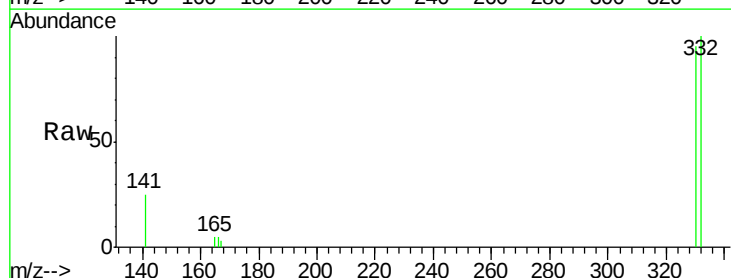
Tgt Ion:330 Resp: 7656

Ion Ratio Lower Upper

330 100

332 96.8 75.4 113.0

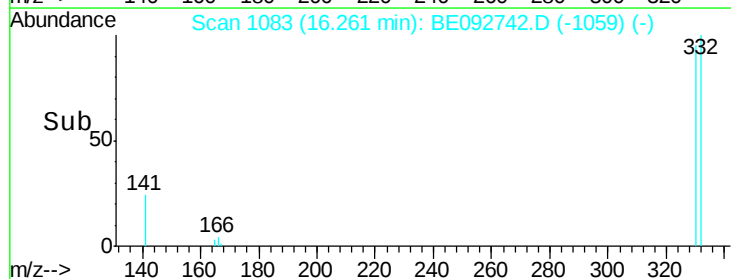
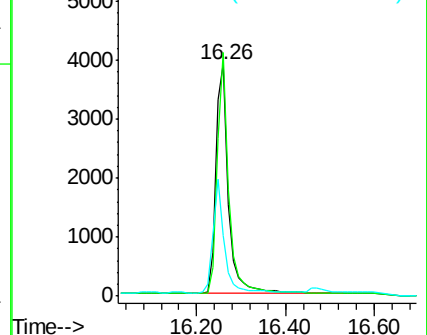
141 44.1 31.0 46.6

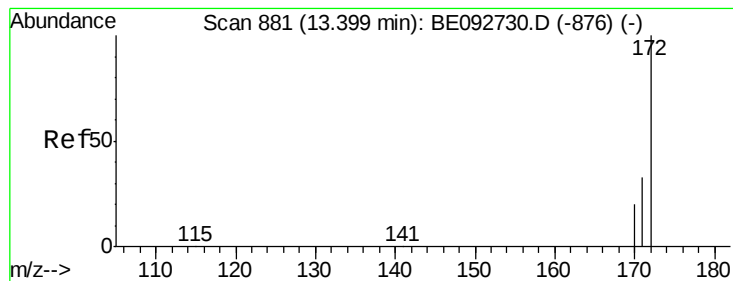


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

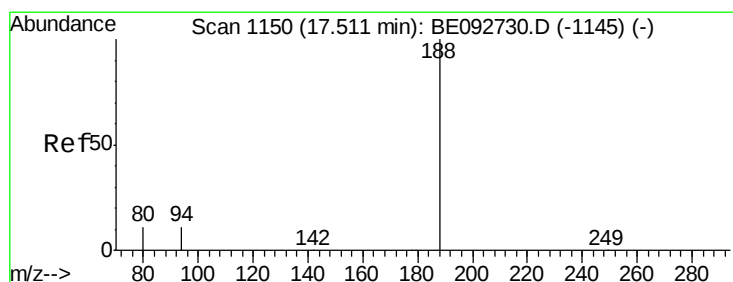
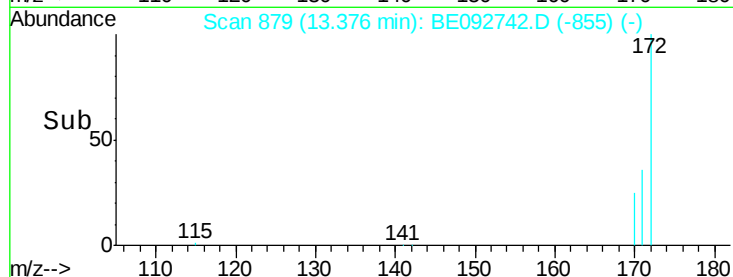
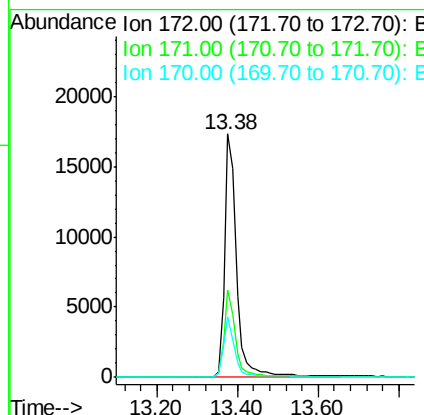
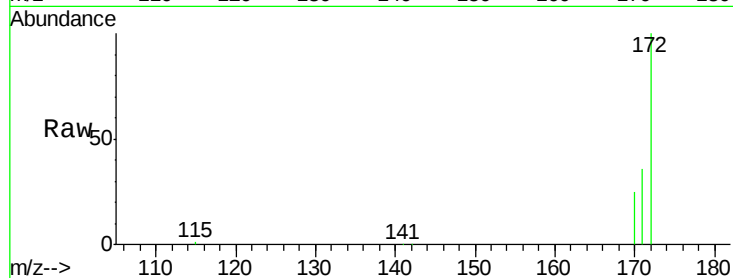




#14  
2-Fluorobiphenyl  
Concen: 5.11 ng  
RT: 13.38 min Scan# 879  
Delta R.T. -0.02 min  
Lab File: BE092742.D  
Acq: 15 Feb 2017 20:39

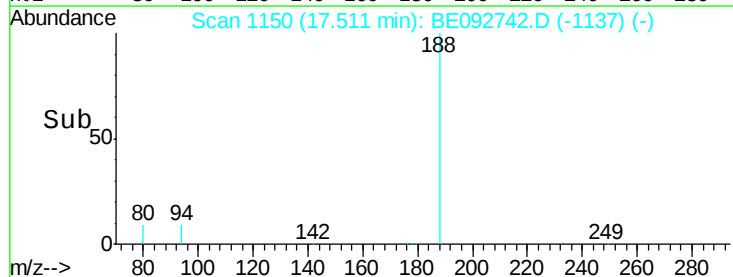
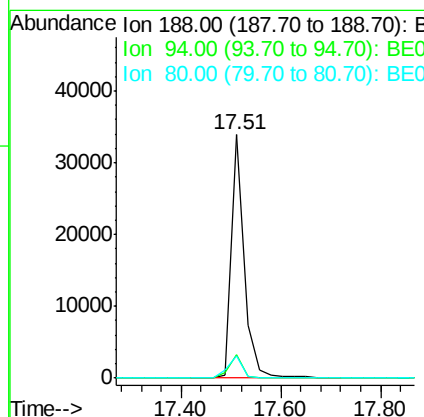
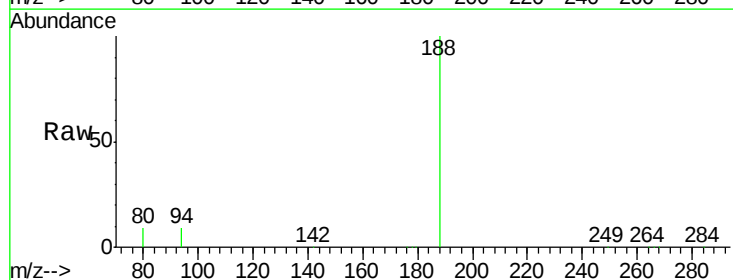
Instrument :  
BNA\_E  
ClientSampled :

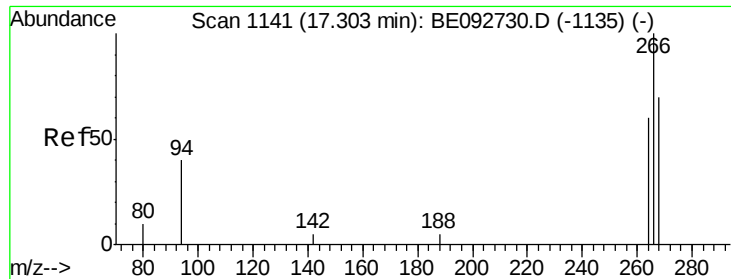
Tot Ion:172 Resp: 35117  
Ion Ratio Lower Upper  
172 100  
171 36.0 30.1 45.1  
170 25.0 21.8 32.6



#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.51 min Scan# 1150  
Delta R.T. 0.00 min  
Lab File: BE092742.D  
Acq: 15 Feb 2017 20:39

Tgt Ion:188 Resp: 60667  
Ion Ratio Lower Upper  
188 100  
94 9.4 3.2 4.8#  
80 9.0 2.6 3.8#

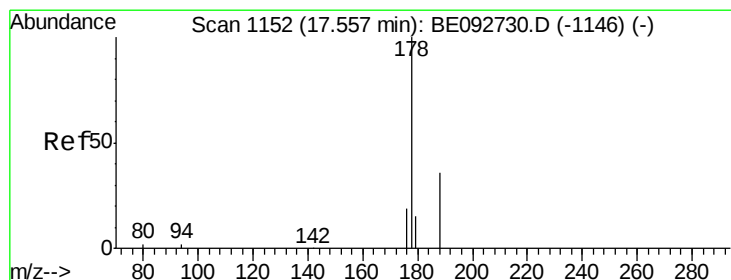
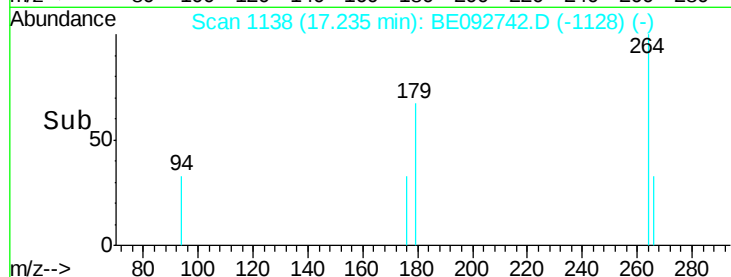
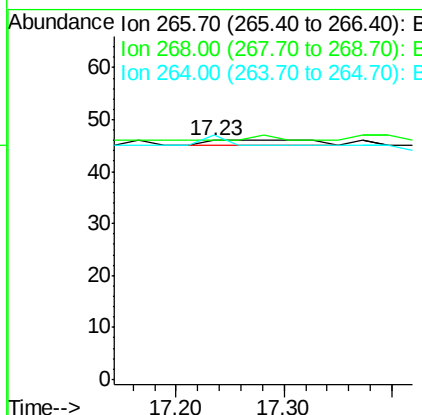
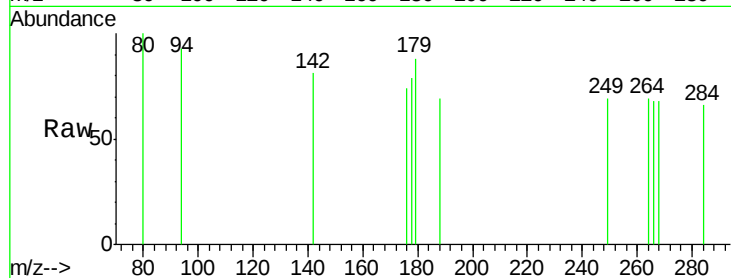




#20  
 Pentachlorophenol  
 Concen: 0.27 ng  
 RT: 17.23 min Scan# 1138  
 Delta R.T. -0.07 min  
 Lab File: BE092742.D  
 Acq: 15 Feb 2017 20:39

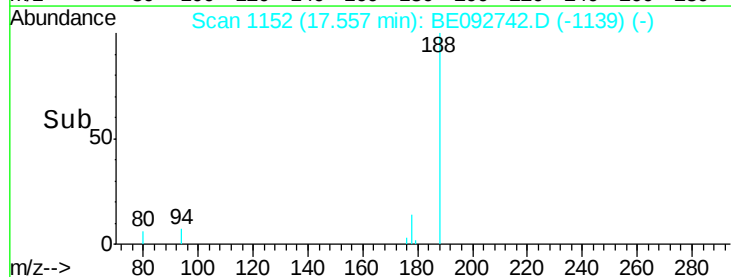
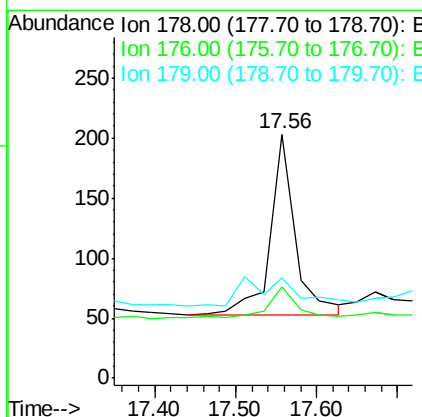
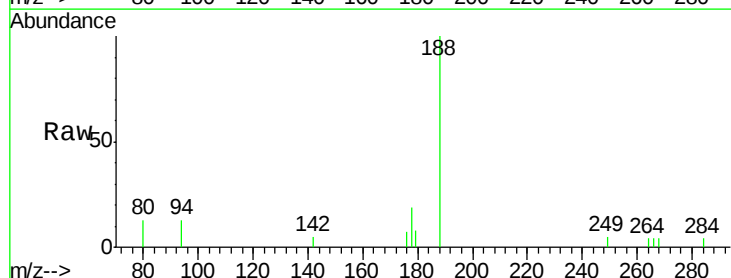
Instrument :  
 BNA\_E  
 ClientSampleId :

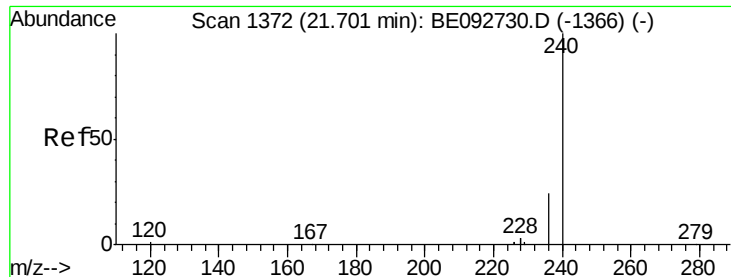
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 100.0 | 62.5  | 93.7# |
| 264     | 102.2 | 57.2  | 85.8# |



#21  
 Phenanthrene  
 Concen: 0.02 ng  
 RT: 17.56 min Scan# 1152  
 Delta R.T. 0.00 min  
 Lab File: BE092742.D  
 Acq: 15 Feb 2017 20:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 22.3  | 15.8  | 23.8  |
| 179     | 0.0   | 16.0  | 24.0# |

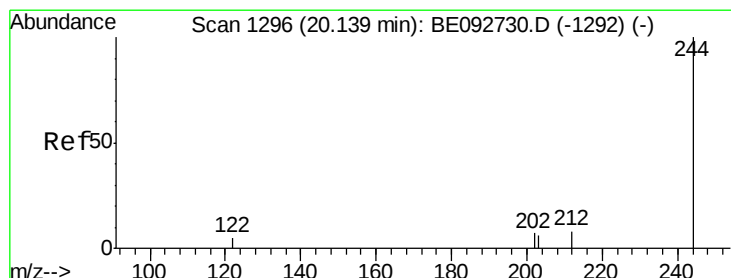
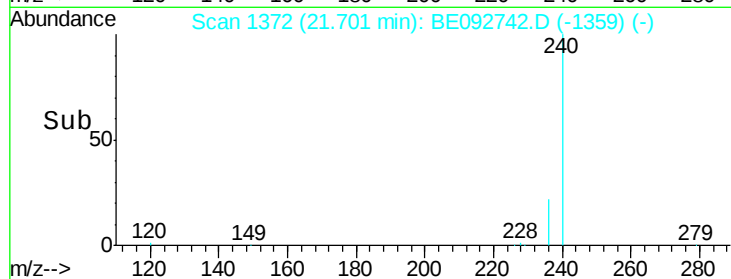
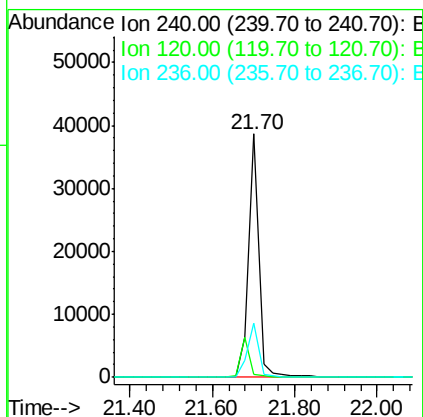
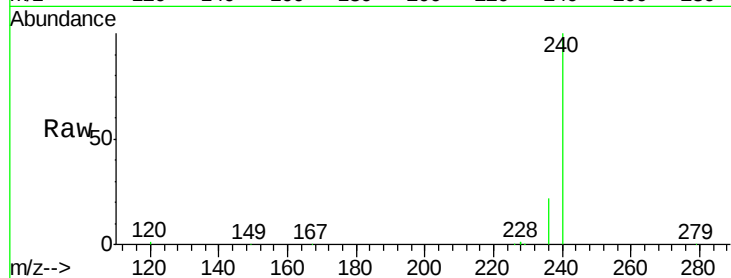




#24  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.70 min Scan# 1372  
Delta R.T. -0.00 min  
Lab File: BE092742.D  
Acq: 15 Feb 2017 20:39

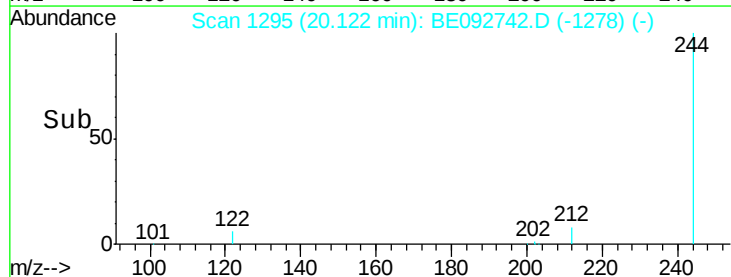
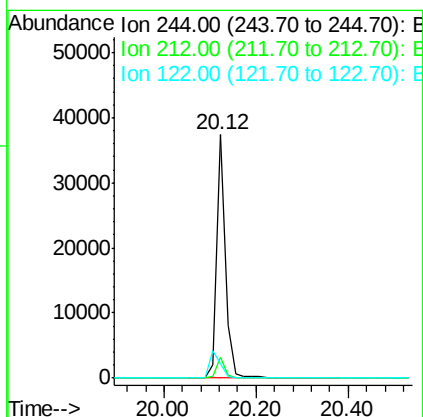
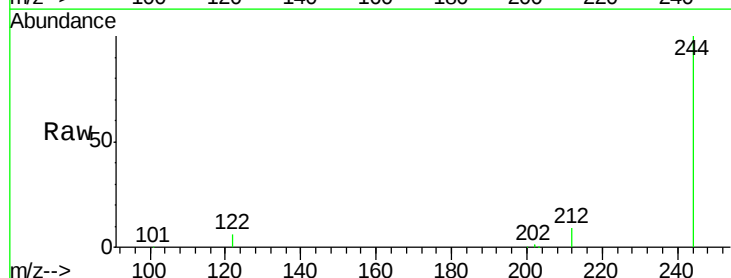
Instrument :  
BNA\_E  
ClientSampled :

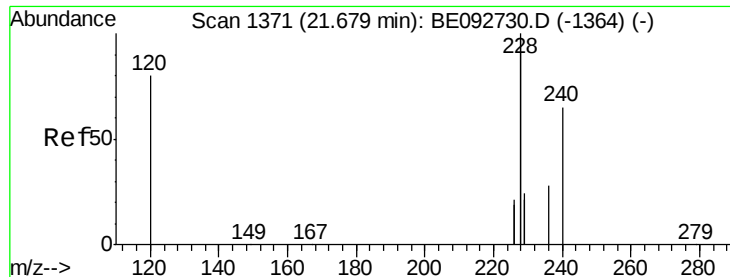
Tot Ion:240 Resp: 66235  
Ion Ratio Lower Upper  
240 100  
120 1.1 2.6 4.0#  
236 22.2 24.6 37.0#



#26  
Terphenyl-d14  
Concen: 5.94 ng  
RT: 20.12 min Scan# 1295  
Delta R.T. -0.02 min  
Lab File: BE092742.D  
Acq: 15 Feb 2017 20:39

Tgt Ion:244 Resp: 50213  
Ion Ratio Lower Upper  
244 100  
212 8.6 6.7 10.1  
122 5.9 3.6 5.4#





#27

Benzo(a)anthracene

Concen: 0.03 ng

RT: 21.68 min Scan# 1371

Delta R.T. -0.00 min

Lab File: BE092742.D

Acq: 15 Feb 2017 20:39

Instrument :

BNA\_E

ClientSampleId :

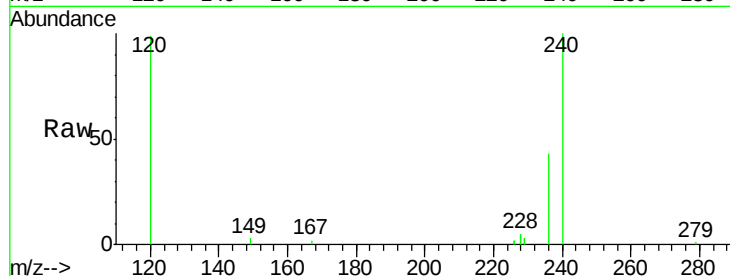
Tot Ion:228 Resp: 1641

Ion Ratio Lower Upper

228 100

226 42.7 23.6 35.4#

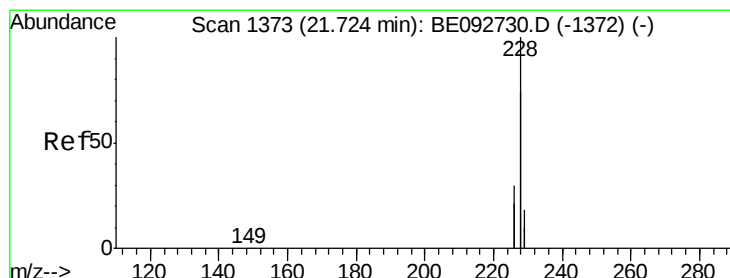
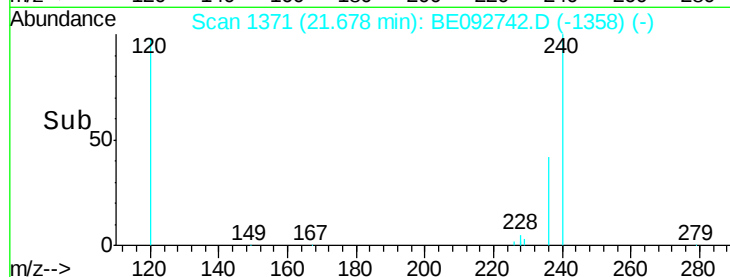
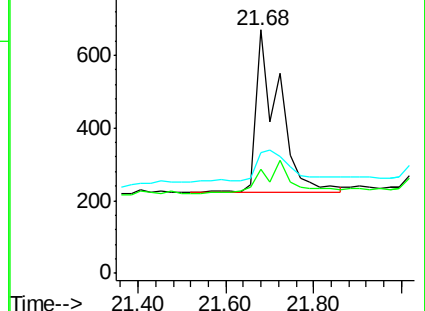
229 49.6 13.3 19.9#



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



#28

Chrysene

Concen: 0.02 ng

RT: 21.68 min Scan# 1371

Delta R.T. -0.05 min

Lab File: BE092742.D

Acq: 15 Feb 2017 20:39

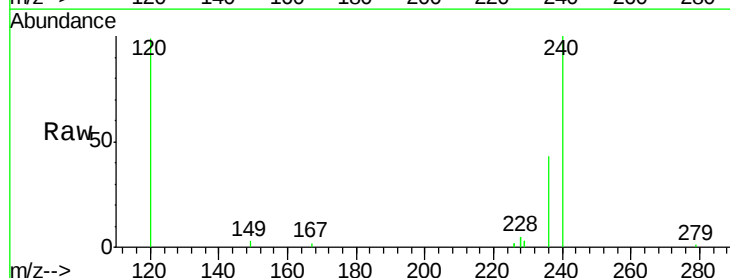
Tgt Ion:228 Resp: 1701

Ion Ratio Lower Upper

228 100

226 42.7 36.3 54.5

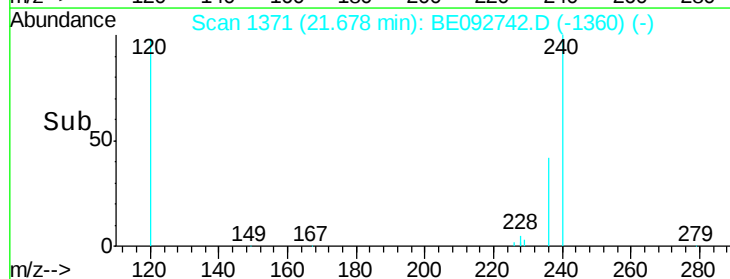
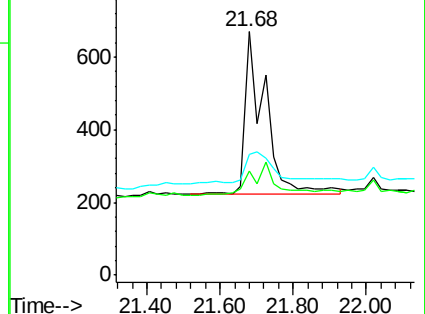
229 49.6 10.6 16.0#

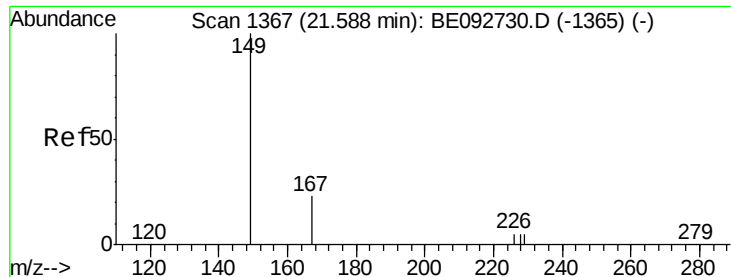


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.33 ng

RT: 21.59 min Scan# 1367

Delta R.T. 0.00 min

Lab File: BE092742.D

Acq: 15 Feb 2017 20:39

Instrument :

BNA\_E

ClientSampleId :

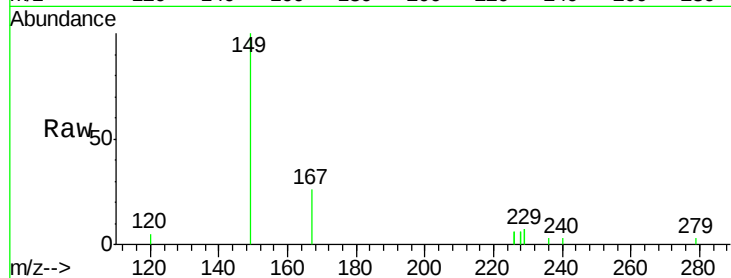
Tot Ion:149 Resp: 2445

Ion Ratio Lower Upper

149 100

167 23.4 16.0 24.0

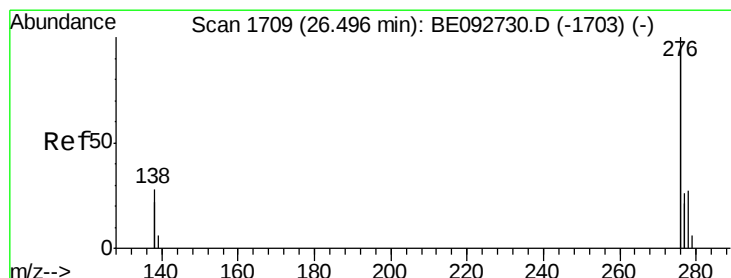
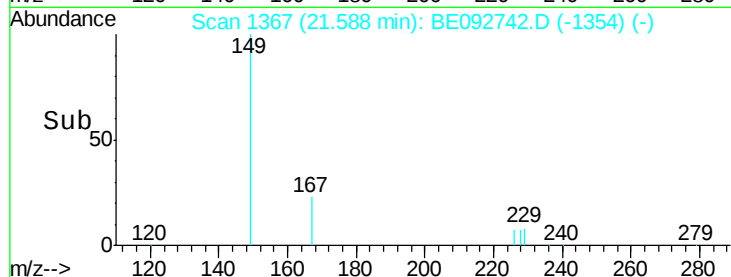
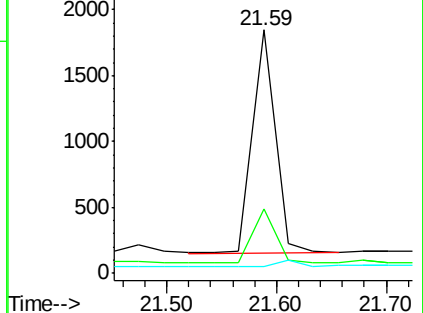
279 0.0 16.0 24.0#



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



#30

Indeno(1,2,3-cd)pyrene

Concen: 0.05 ng

RT: 26.51 min Scan# 1710

Delta R.T. 0.02 min

Lab File: BE092742.D

Acq: 15 Feb 2017 20:39

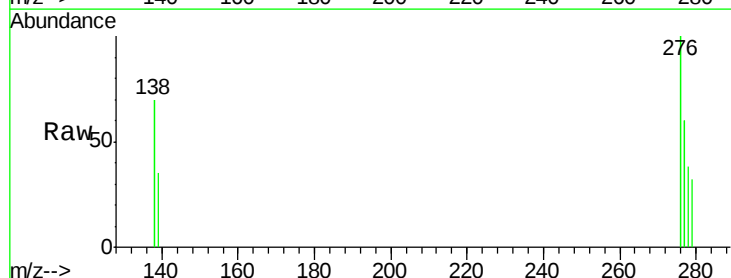
Tgt Ion:276 Resp: 1219

Ion Ratio Lower Upper

276 100

138 22.4 20.3 30.5

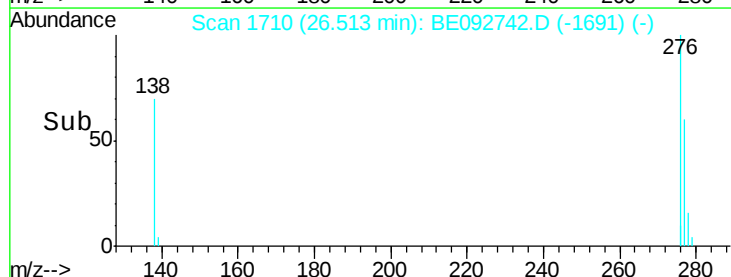
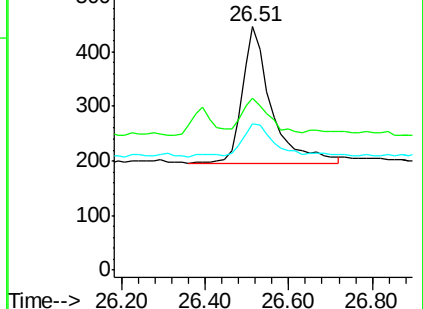
277 23.1 19.7 29.5

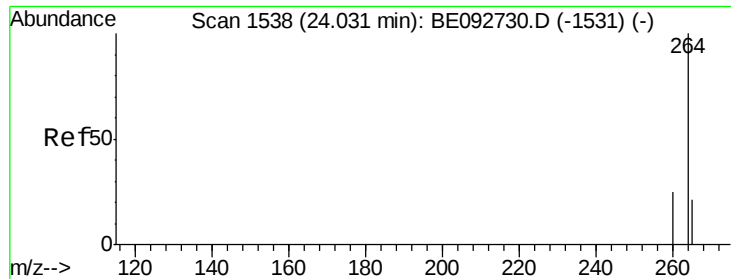


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



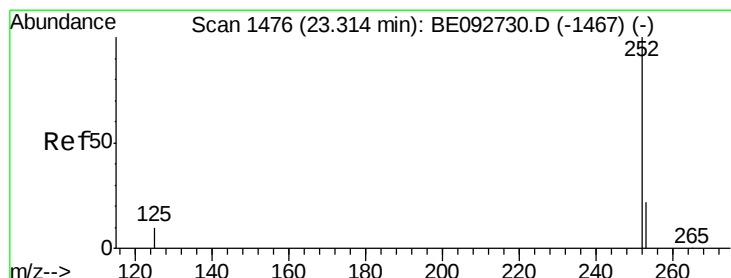
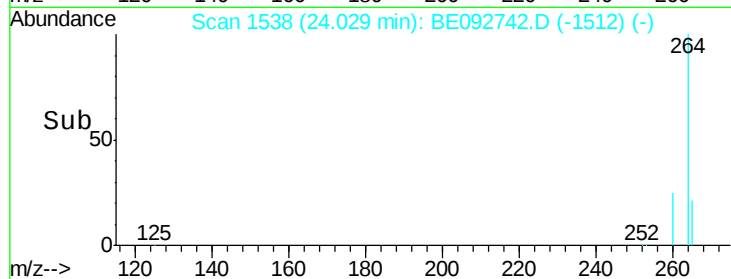
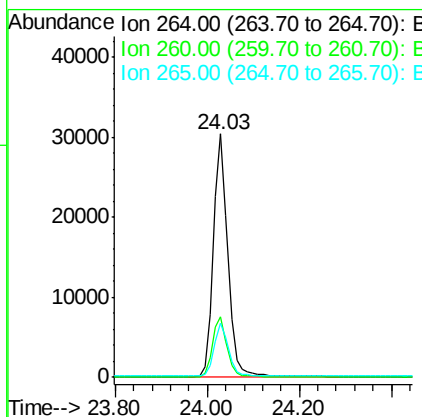
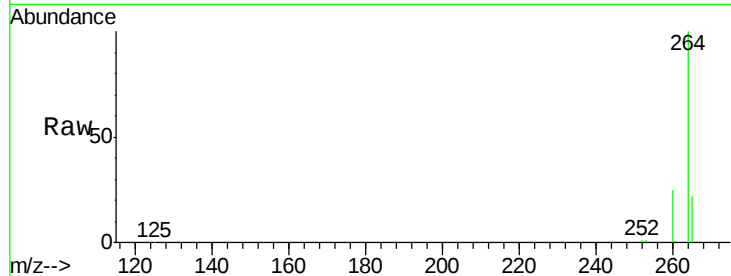


#31  
Pervlene-d12  
Concen: 5.00 ng  
RT: 24.03 min Scan# 1538  
Delta R.T. -0.00 min  
Lab File: BE092742.D  
Acq: 15 Feb 2017 20:39

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:264 Resp: 66738  

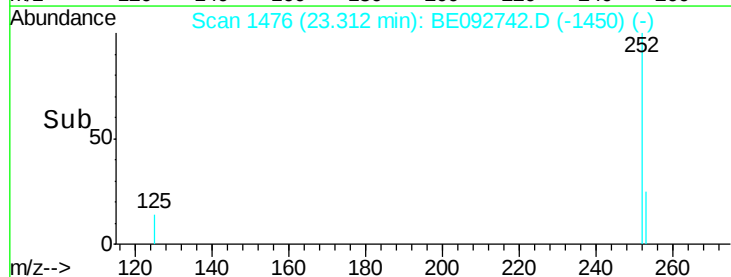
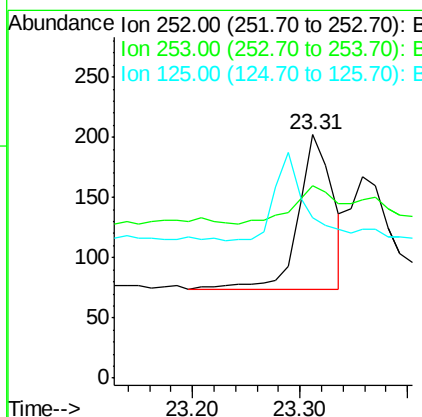
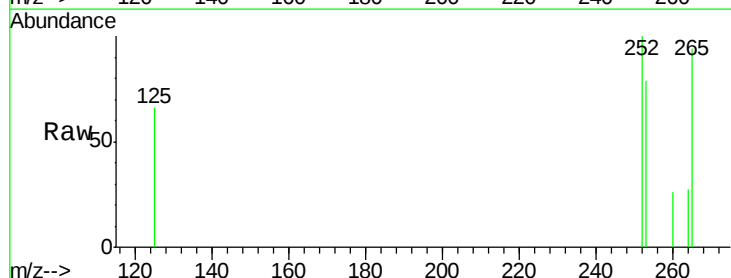
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 25.1  | 20.1  | 30.1  |
| 265 | 22.0  | 17.9  | 26.9  |

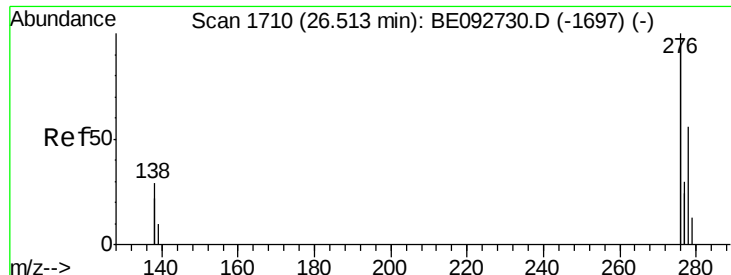


#32  
Benzo(b)fluoranthene  
Concen: 0.05 ng  
RT: 23.31 min Scan# 1476  
Delta R.T. -0.00 min  
Lab File: BE092742.D  
Acq: 15 Feb 2017 20:39

Tgt Ion:252 Resp: 286  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 79.2  | 18.7  | 28.1# |
| 125 | 65.8  | 10.5  | 15.7# |





#35

Dibenzo(a,h)anthracene

Concen: 0.02 ng

RT: 26.53 min Scan# 1711

Delta R.T. 0.02 min

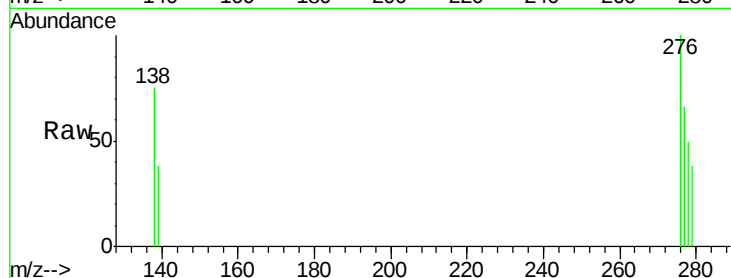
Lab File: BE092742.D

Acq: 15 Feb 2017 20:39

Instrument :

BNA\_E

ClientSampleId :



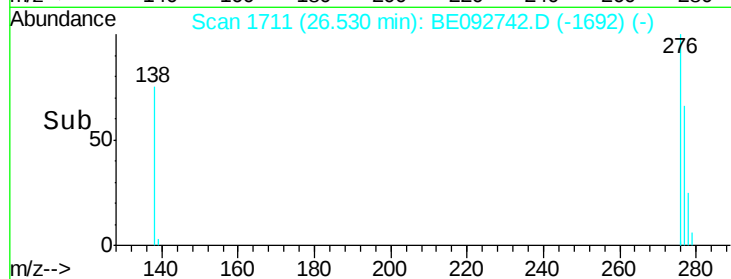
Tot Ion: 278 Resp: 230

Ion Ratio Lower Upper

278 100

139 76.0 13.8 20.8#

279 77.0 21.4 32.2#



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

