

Data Path : Z:\HPCHEM1\BNA E\DATA\BE050517\  
 Data File : BE092937.D  
 Acq On : 5 May 2017 19:49  
 Operator : SJ/MA  
 Sample : PB98667BSD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: May 06 01:48:49 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE050517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 05 14:05:07 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.77  | 152  | 900      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.53 | 136  | 3467     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.39 | 164  | 1442     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.13 | 188  | 3440     | 0.40 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.28 | 240  | 2739     | 0.40 | ng    | 0.00     |
| 33) Perylene-d12          | 23.69 | 264  | 2300     | 0.40 | ng    | 0.00     |

|                             |       |     |      |      |    |      |
|-----------------------------|-------|-----|------|------|----|------|
| System Monitoring Compounds |       |     |      |      |    |      |
| 4) 2-Fluorophenol           | 5.36  | 112 | 801  | 0.40 | ng | 0.00 |
| 5) Phenol-d6                | 6.95  | 99  | 1042 | 0.37 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.90  | 82  | 900  | 0.39 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.13 | 152 | 1961 | 0.38 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.87 | 330 | 72   | 0.32 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.01 | 172 | 2280 | 0.34 | ng | 0.00 |
| 24) Fluoranthene-d10        | 19.15 | 212 | 2260 | 0.28 | ng | 0.00 |
| 28) Terphenyl-d14           | 19.74 | 244 | 1853 | 0.39 | ng | 0.00 |

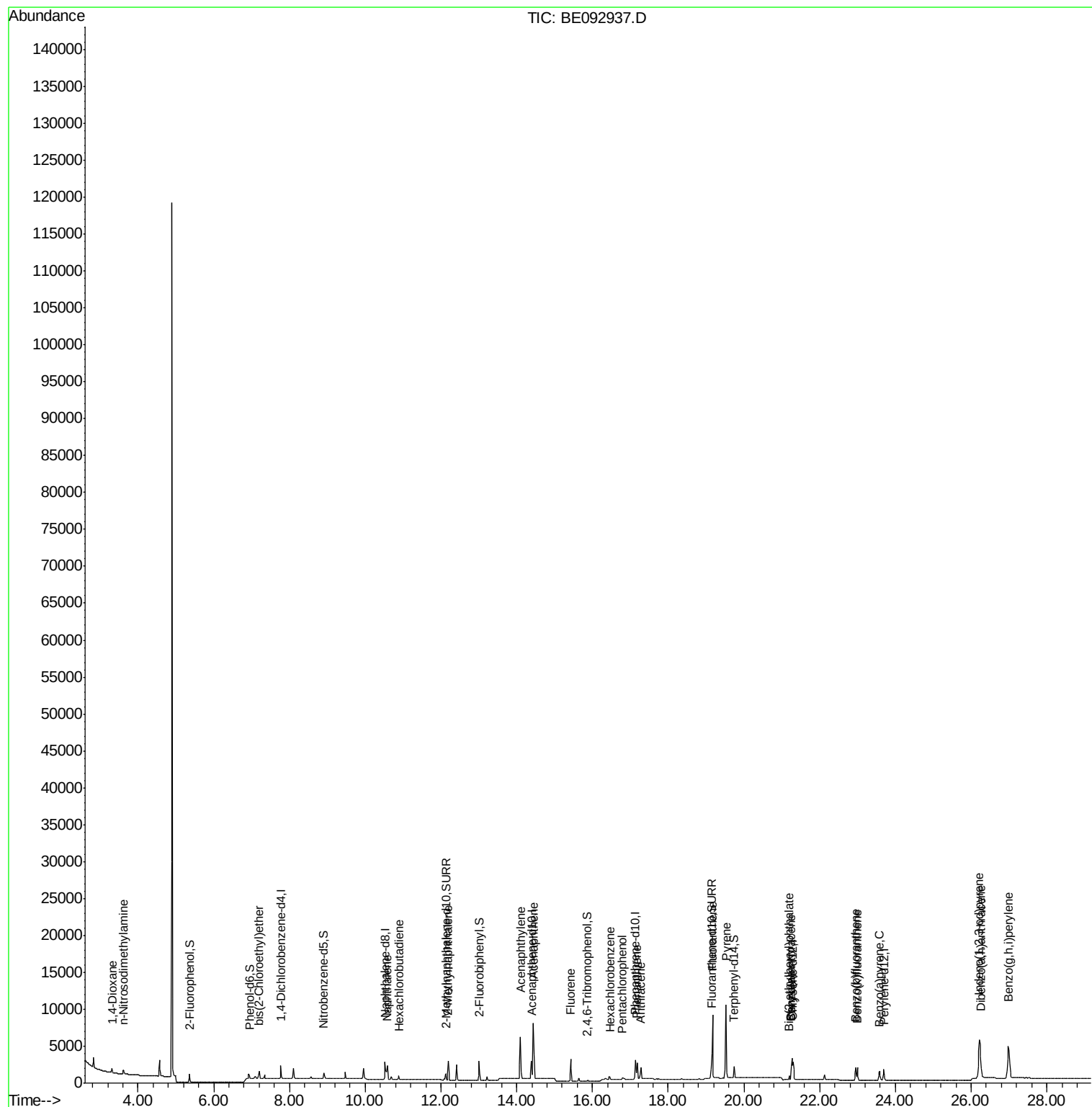
|                                |       |     |       |      |    |        |
|--------------------------------|-------|-----|-------|------|----|--------|
| Target Compounds               |       |     |       |      |    | Qvalue |
| 2) 1,4-Dioxane                 | 3.32  | 88  | 368   | 0.21 | ng | # 83   |
| 3) n-Nitrosodimethylamine      | 3.61  | 42  | 443   | 0.33 | ng | # 86   |
| 6) bis(2-Chloroethyl)ether     | 7.20  | 93  | 1021  | 0.31 | ng | 97     |
| 9) Naphthalene                 | 10.58 | 128 | 2960  | 0.32 | ng | # 87   |
| 10) Hexachlorobutadiene        | 10.89 | 225 | 416   | 0.33 | ng | 94     |
| 12) 2-Methylnaphthalene        | 12.19 | 142 | 1850  | 0.33 | ng | # 90   |
| 16) Acenaphthylene             | 14.10 | 152 | 7763  | 0.34 | ng | 99     |
| 17) Acenaphthene               | 14.44 | 154 | 1483  | 0.33 | ng | 94     |
| 18) Fluorene                   | 15.43 | 166 | 1705  | 0.30 | ng | 100    |
| 20) Hexachlorobenzene          | 16.47 | 284 | 445   | 0.30 | ng | # 100  |
| 21) Pentachlorophenol          | 16.79 | 266 | 166   | 0.60 | ng | # 80   |
| 22) Phenanthrene               | 17.18 | 178 | 2875  | 0.30 | ng | 97     |
| 23) Anthracene                 | 17.27 | 178 | 2290  | 0.31 | ng | 100    |
| 25) Fluoranthene               | 19.17 | 202 | 11682 | 0.28 | ng | # 98   |
| 27) Pyrene                     | 19.53 | 202 | 12155 | 0.34 | ng | # 97   |
| 29) Benzo(a)anthracene         | 21.25 | 228 | 2222  | 0.35 | ng | # 89   |
| 30) Chrysene                   | 21.25 | 228 | 2222  | 0.27 | ng | 89     |
| 31) Bis(2-ethylhexyl)phthalate | 21.20 | 149 | 559   | 0.32 | ng | # 95   |
| 32) Indeno(1,2,3-cd)pyrene     | 26.22 | 276 | 11293 | 0.38 | ng | 99     |
| 34) Benzo(b)fluoranthene       | 22.95 | 252 | 2438  | 0.32 | ng | # 86   |
| 35) Benzo(k)fluoranthene       | 22.99 | 252 | 2411  | 0.32 | ng | # 82   |
| 36) Benzo(a)pyrene             | 23.58 | 252 | 2101  | 0.34 | ng | # 78   |
| 37) Dibenzo(a,h)anthracene     | 26.25 | 278 | 2365  | 0.34 | ng | # 80   |
| 38) Benzo(g,h,i)perylene       | 26.99 | 276 | 10147 | 0.35 | ng | # 82   |

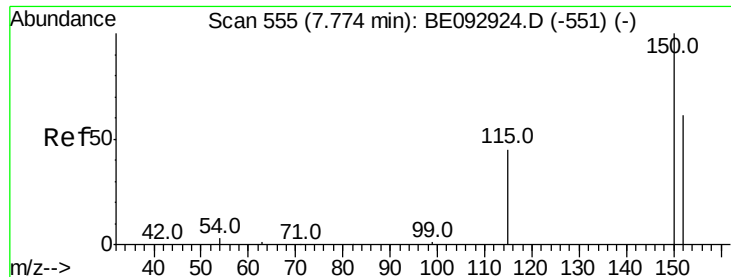
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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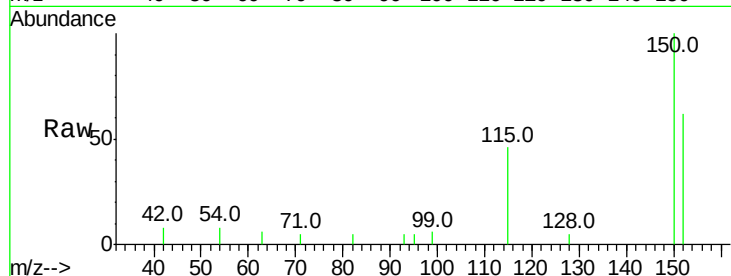


#1

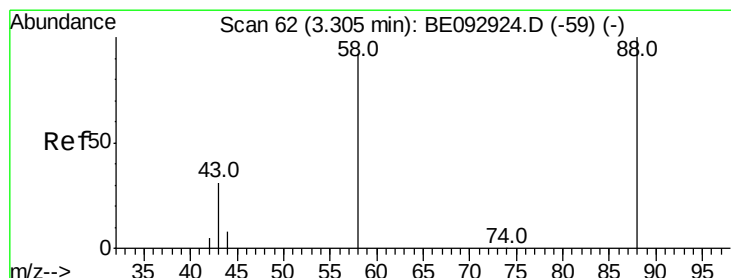
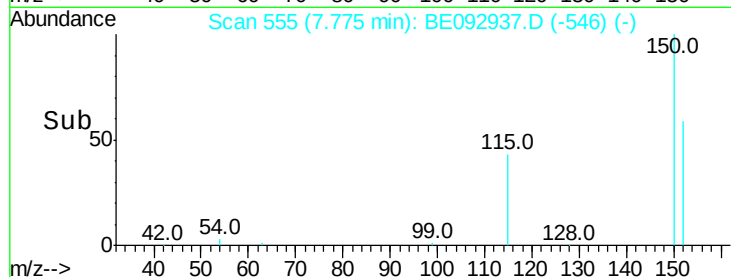
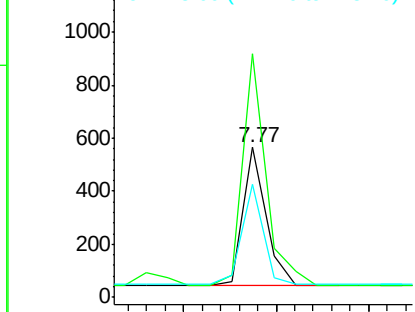
1,4-Dichlorobenzene-d4  
Concen: 0.40 ng  
RT: 7.77 min Scan# 555  
Delta R.T. 0.00 min  
Lab File: BE092937.D  
Acq: 5 May 2017 19:49

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 900  
Ion Ratio Lower Upper  
152 100  
150 162.5 129.9 194.9  
115 75.4 62.6 93.8



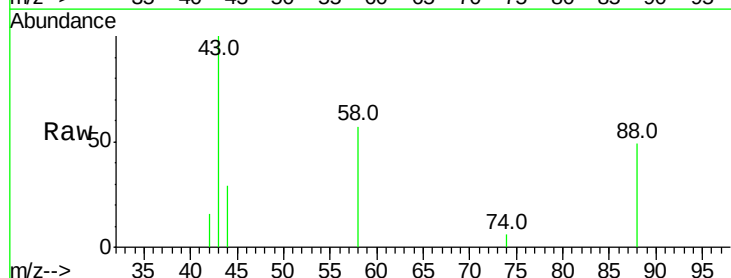
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



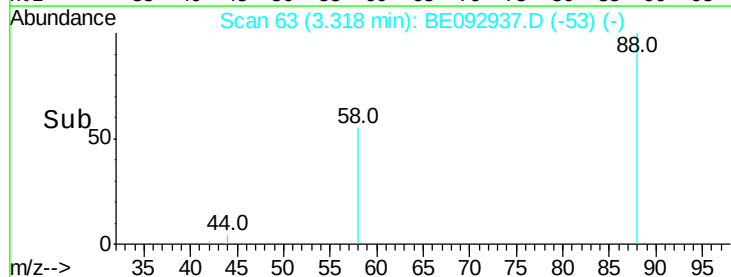
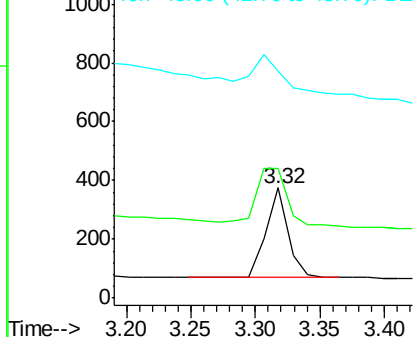
#2

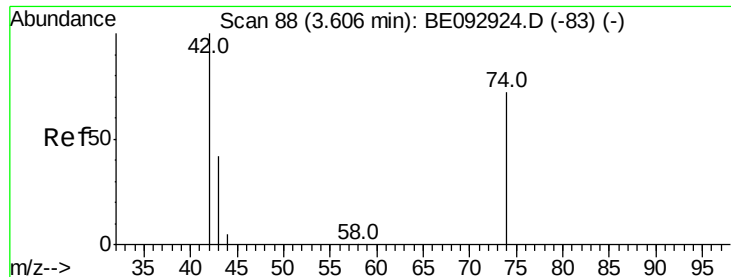
1,4-Dioxane  
Concen: 0.21 ng  
RT: 3.32 min Scan# 63  
Delta R.T. 0.01 min  
Lab File: BE092937.D  
Acq: 5 May 2017 19:49

Tgt Ion: 88 Resp: 368  
Ion Ratio Lower Upper  
88 100  
58 87.0 64.9 97.3  
43 57.9 26.6 40.0#



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: 0.33 ng

RT: 3.61 min Scan# 88

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

Instrument :

BNA\_E

ClientSampleId :

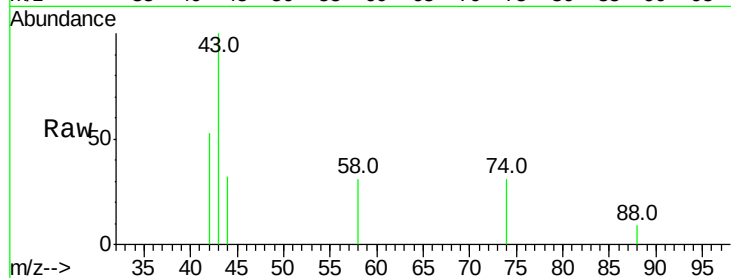
Tot Ion: 42 Resp: 443

Ion Ratio Lower Upper

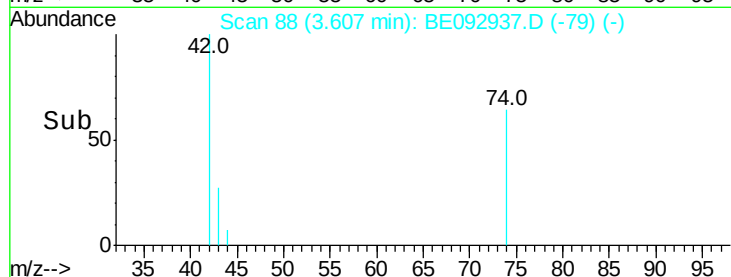
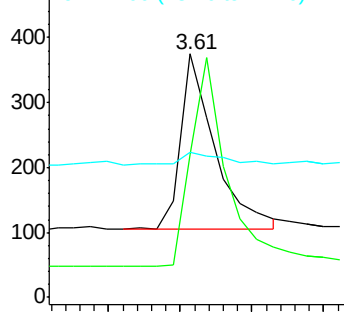
42 100

74 124.6 106.6 160.0

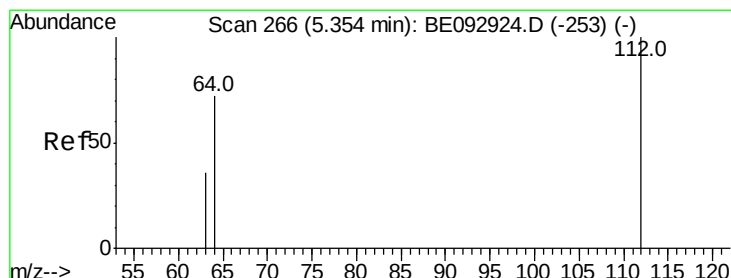
44 7.4 25.7 38.5#



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



Time-->



#4

2-Fluorophenol

Concen: 0.40 ng

RT: 5.36 min Scan# 267

Delta R.T. 0.01 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

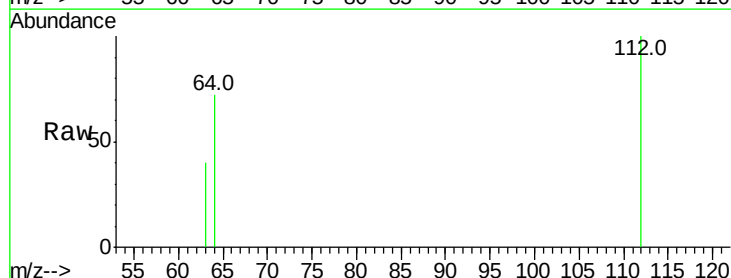
Tgt Ion: 112 Resp: 801

Ion Ratio Lower Upper

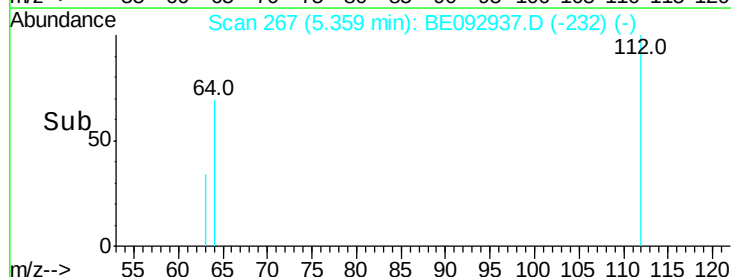
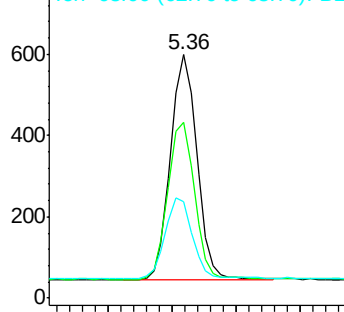
112 100

64 70.4 52.6 79.0

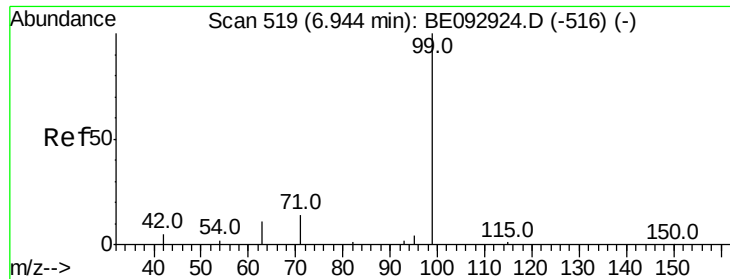
63 36.0 29.0 43.4



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



Time-->



#5

Phenol-d6

Concen: 0.37 ng

RT: 6.95 min Scan# 519

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

Instrument :

BNA\_E

ClientSampleId :

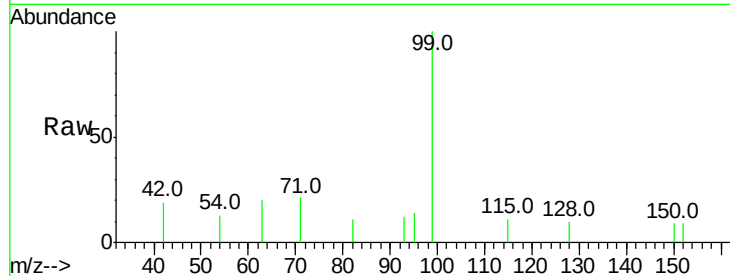
Tot Ion: 99 Resp: 1042

Ion Ratio Lower Upper

99 100

42 0.0 0.0 0.0

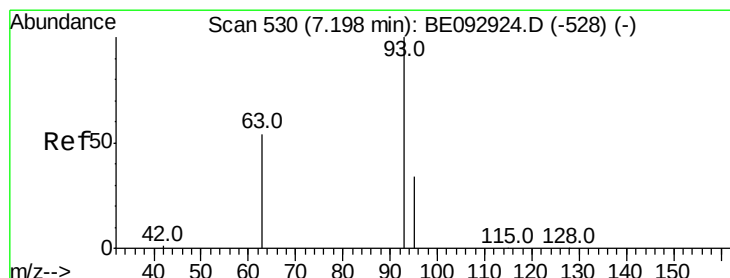
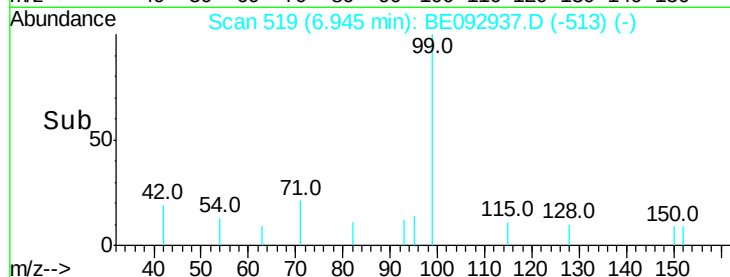
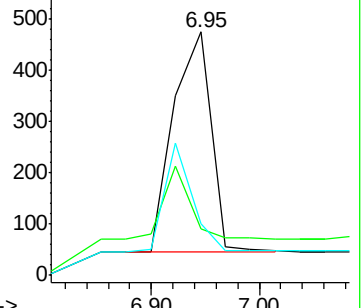
71 0.0 0.0 0.0



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.31 ng

RT: 7.20 min Scan# 530

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

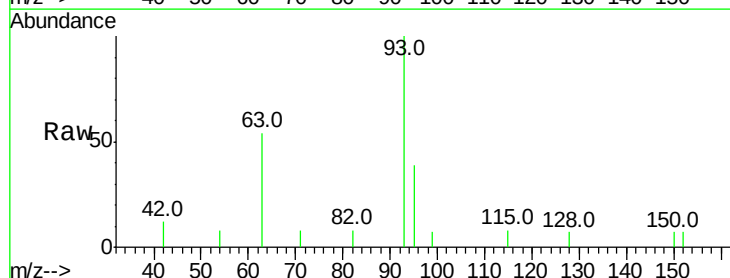
Tgt Ion: 93 Resp: 1021

Ion Ratio Lower Upper

93 100

63 79.7 61.2 91.8

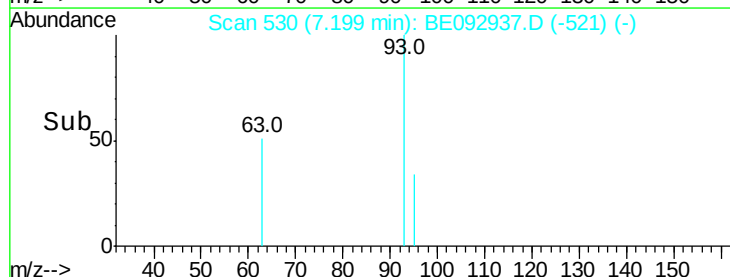
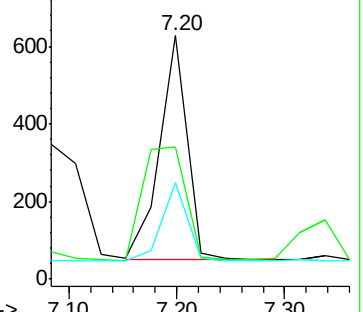
95 32.2 25.5 38.3

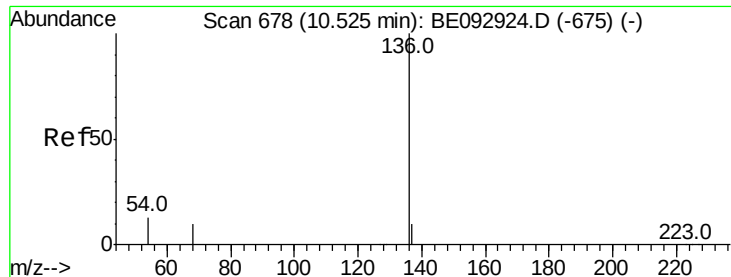


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.40 ng

RT: 10.53 min Scan# 678

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 3467

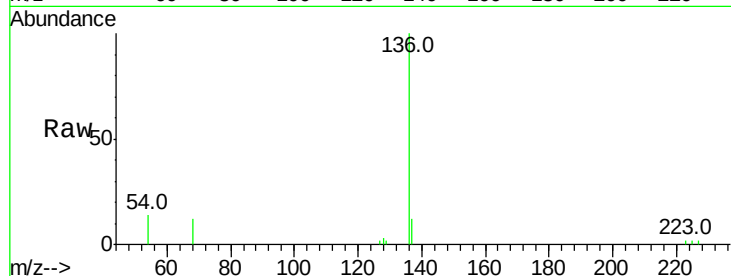
Ion Ratio Lower Upper

136 100

137 11.9 10.4 15.6

54 14.0 12.6 18.8

68 12.0 10.7 16.1

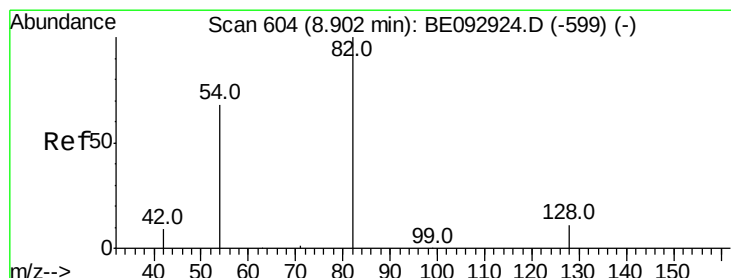
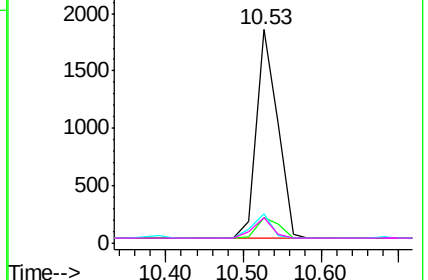
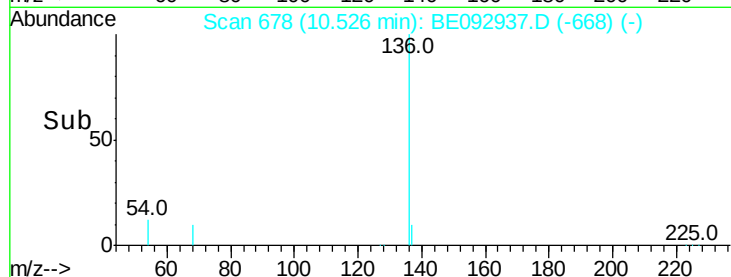


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.39 ng

RT: 8.90 min Scan# 604

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

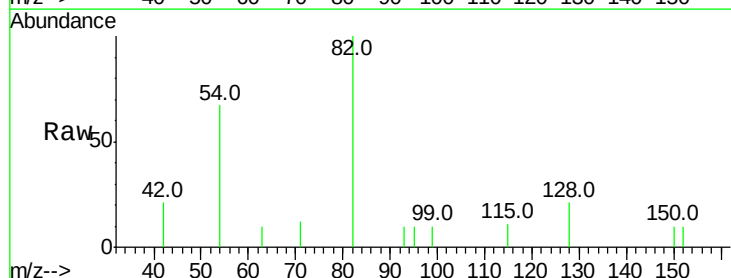
Tgt Ion: 82 Resp: 900

Ion Ratio Lower Upper

82 100

128 20.6 35.3 52.9#

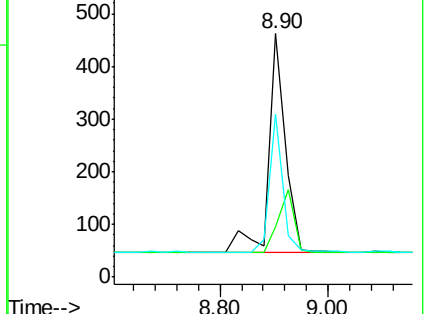
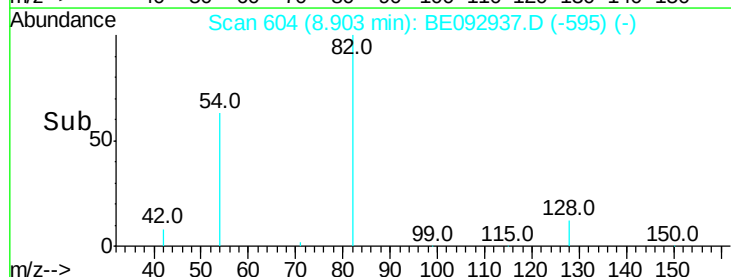
54 67.1 65.1 97.7

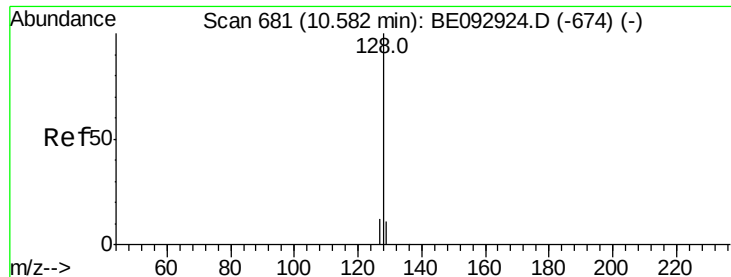


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.32 ng

RT: 10.58 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

Instrument :

BNA\_E

ClientSampleId :

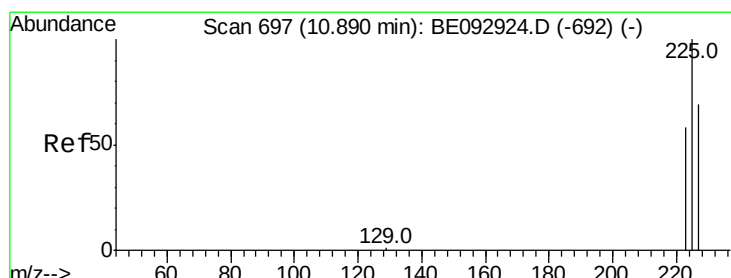
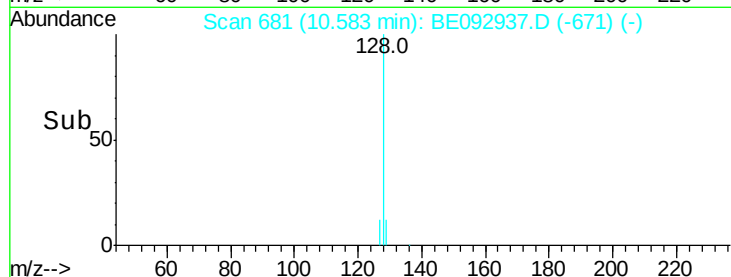
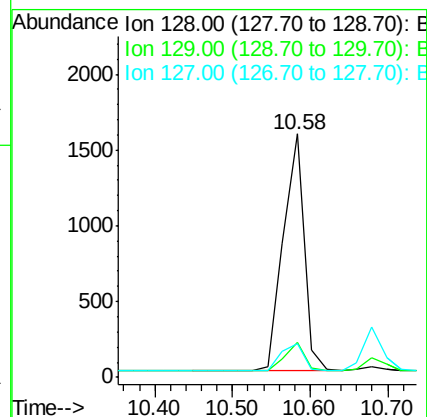
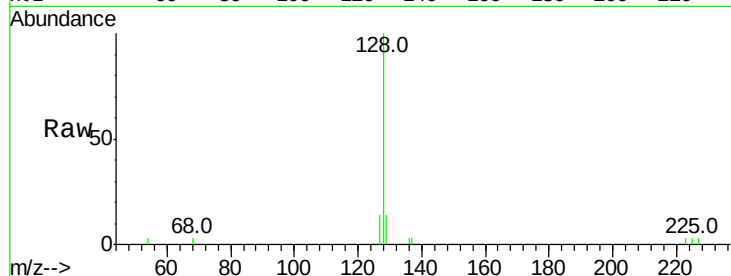
Tot Ion:128 Resp: 2960

Ion Ratio Lower Upper

128 100

129 14.3 15.8 23.8#

127 14.1 16.0 24.0#



#10

Hexachlorobutadiene

Concen: 0.33 ng

RT: 10.89 min Scan# 697

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

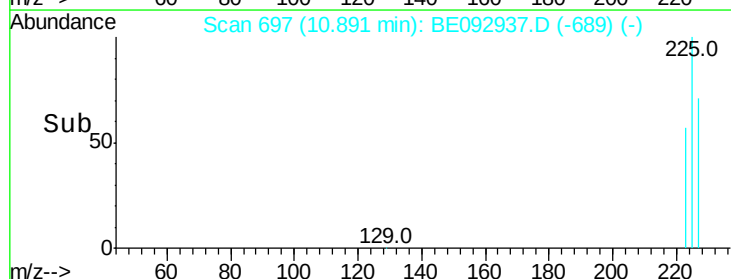
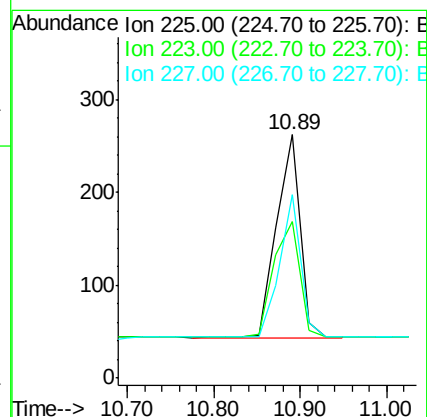
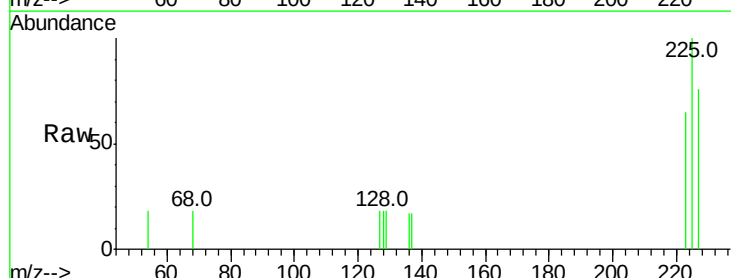
Tgt Ion:225 Resp: 416

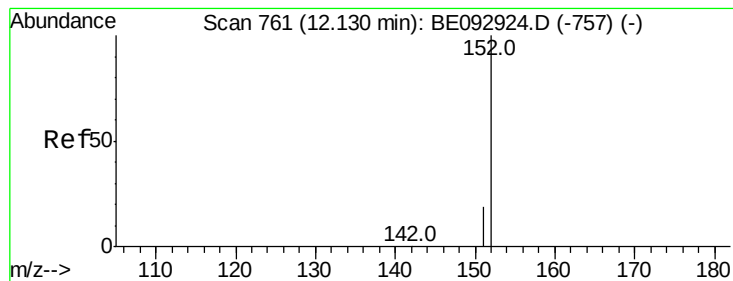
Ion Ratio Lower Upper

225 100

223 62.7 55.4 83.2

227 62.3 52.2 78.4

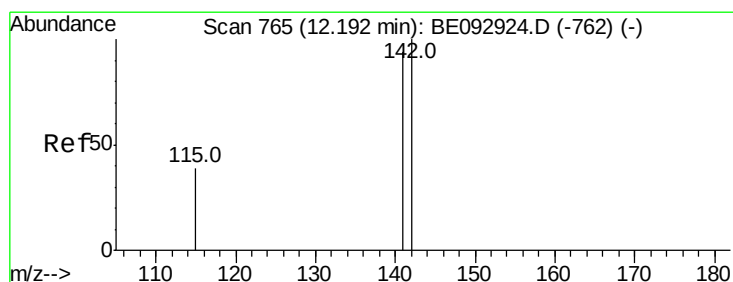
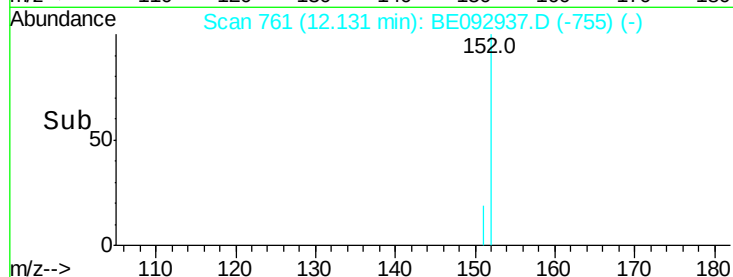
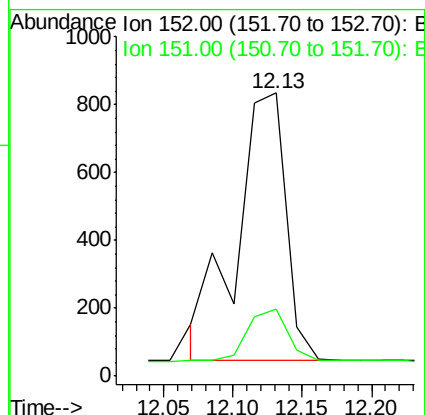
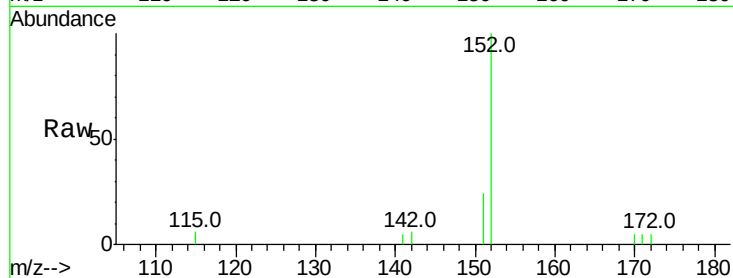




#11  
2-Methylnaphthalene-d10  
Concen: 0.38 ng  
RT: 12.13 min Scan# 761  
Delta R.T. 0.00 min  
Lab File: BE092937.D  
Acq: 5 May 2017 19:49

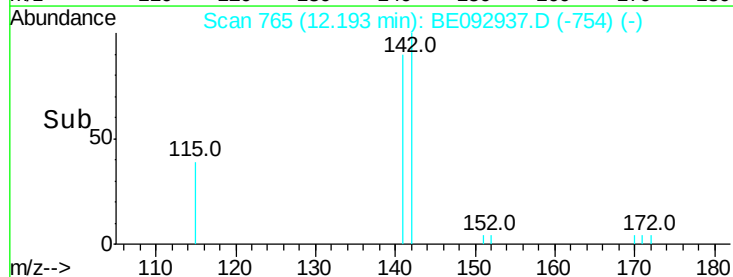
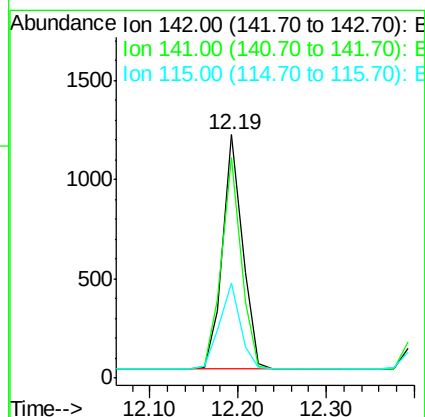
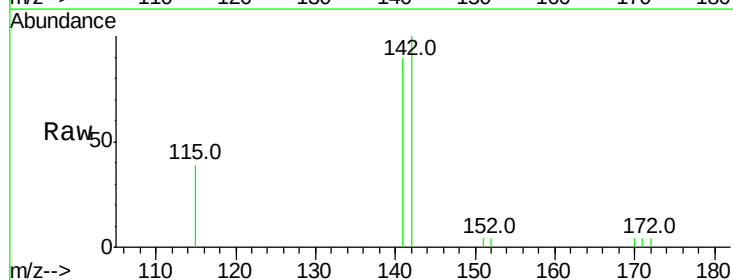
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 1961  
Ion Ratio Lower Upper  
152 100  
151 15.7 15.7 23.5#

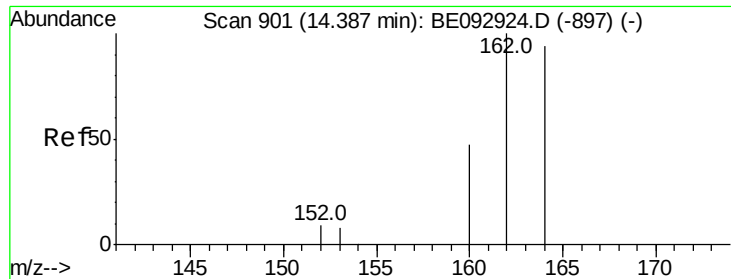


#12  
2-Methylnaphthalene  
Concen: 0.33 ng  
RT: 12.19 min Scan# 765  
Delta R.T. 0.00 min  
Lab File: BE092937.D  
Acq: 5 May 2017 19:49

Tgt Ion:142 Resp: 1850  
Ion Ratio Lower Upper  
142 100  
141 90.5 76.0 114.0  
115 39.1 41.6 62.4#







#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 14.39 min Scan# 901

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

Instrument :

BNA\_E

ClientSampleId :

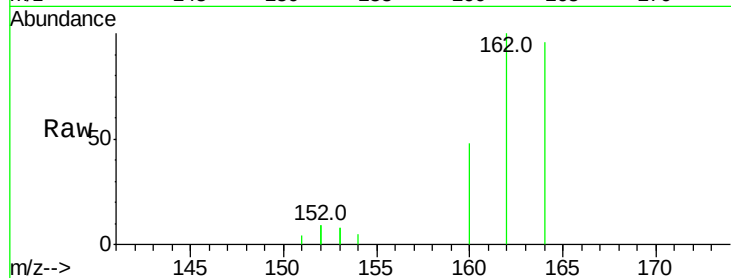
Tot Ion:164 Resp: 1442

Ion Ratio Lower Upper

164 100

162 103.8 86.6 130.0

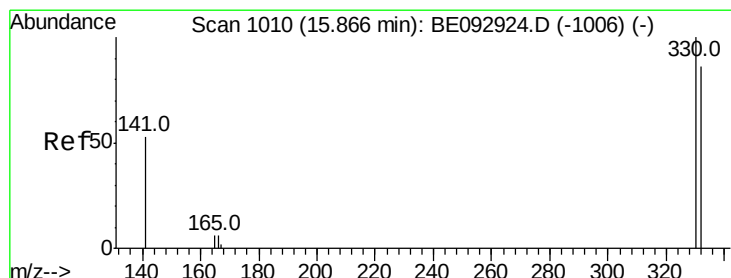
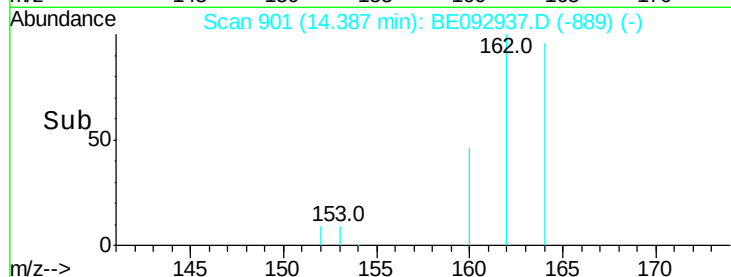
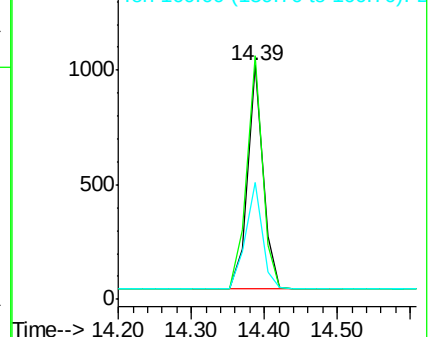
160 49.7 44.5 66.7



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



#14

2,4,6-Tribromophenol

Concen: 0.32 ng

RT: 15.87 min Scan# 1010

Delta R.T. -0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

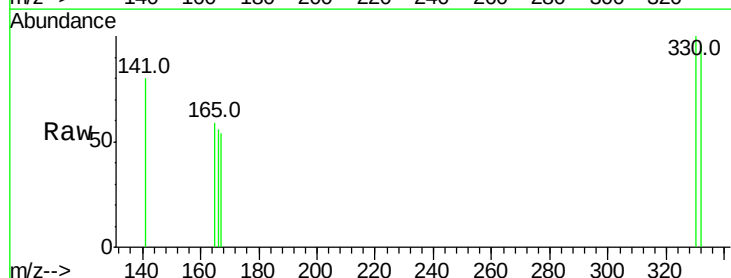
Tgt Ion:330 Resp: 72

Ion Ratio Lower Upper

330 100

332 98.6 69.1 103.7

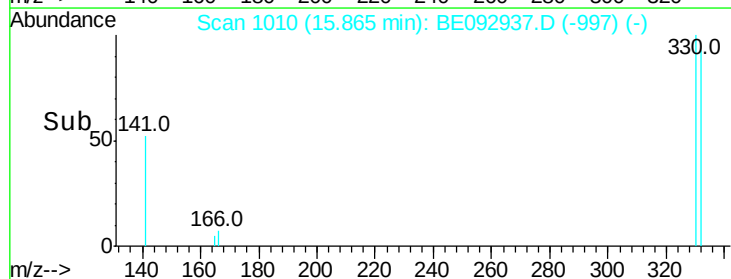
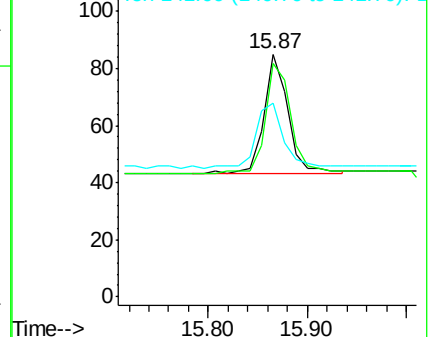
141 68.1 54.6 81.8

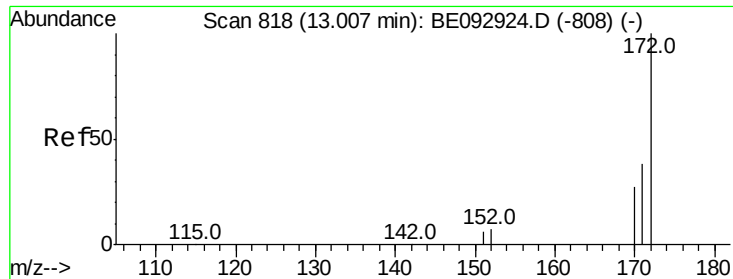


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.34 ng

RT: 13.01 min Scan# 818

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

Instrument :

BNA\_E

ClientSampleId :

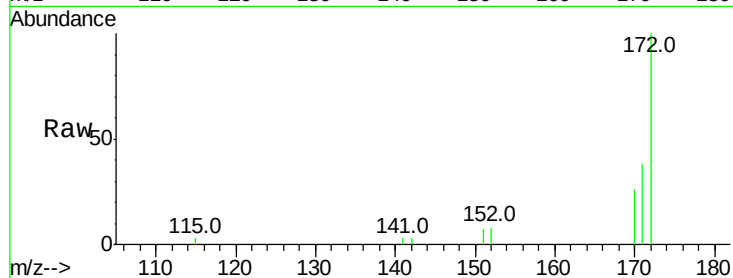
Tot Ion:172 Resp: 2280

Ion Ratio Lower Upper

172 100

171 38.1 35.8 53.6

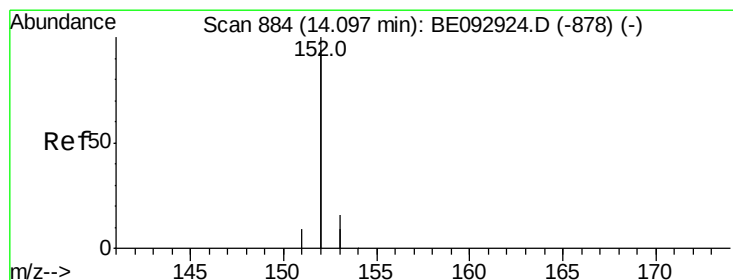
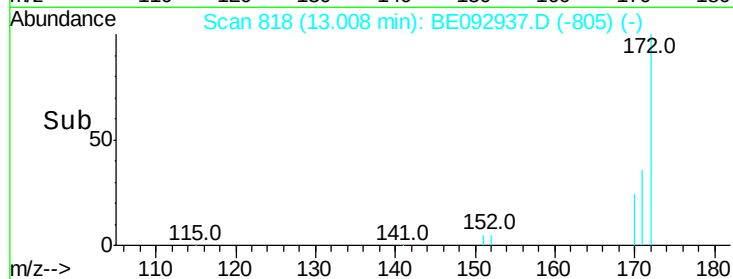
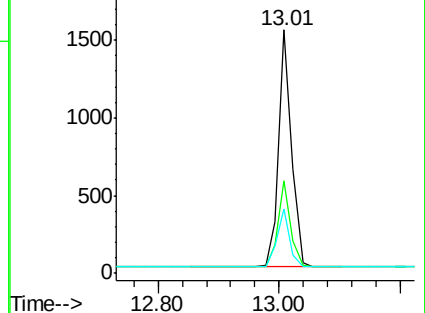
170 26.3 28.5 42.7#



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16

Acenaphthylene

Concen: 0.34 ng

RT: 14.10 min Scan# 884

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

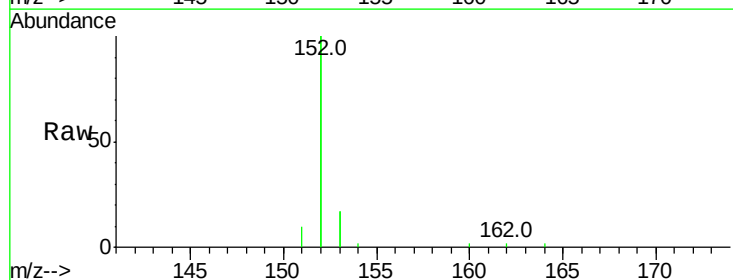
Tgt Ion:152 Resp: 7763

Ion Ratio Lower Upper

152 100

151 4.9 3.8 5.8

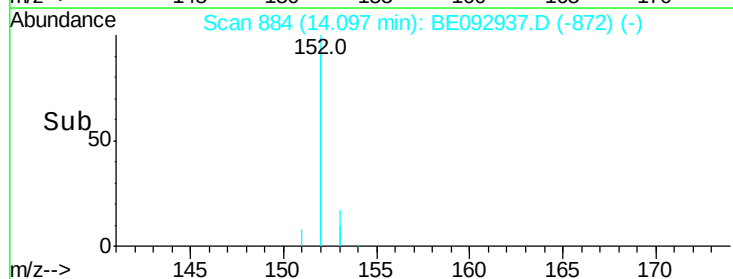
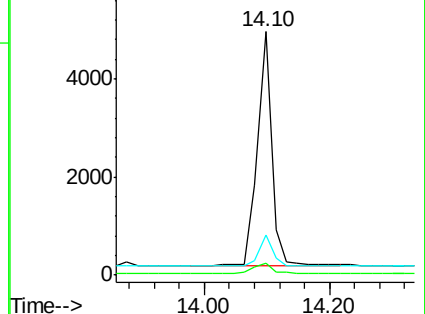
153 13.1 10.0 15.0

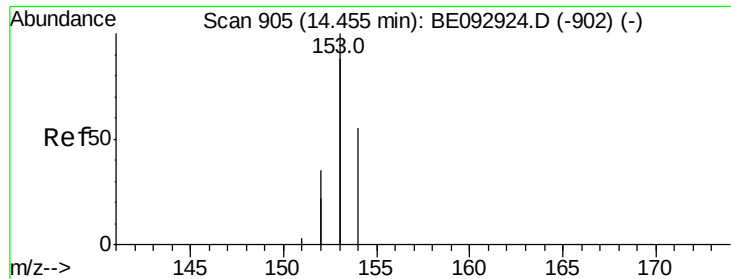


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

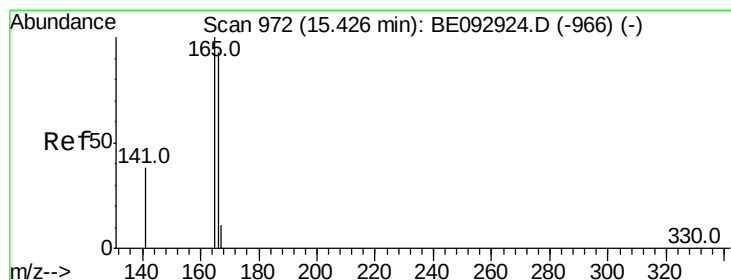
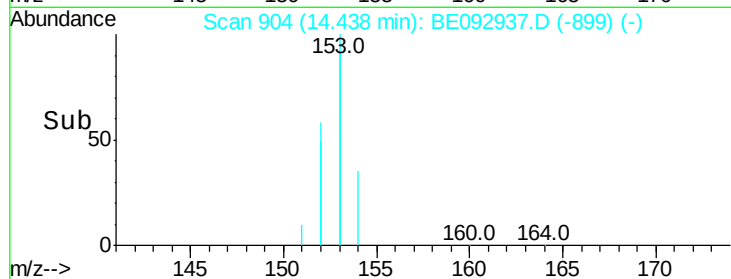
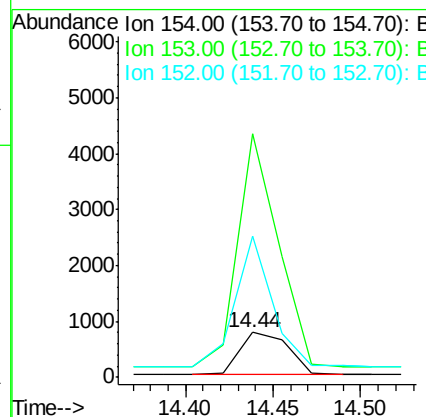
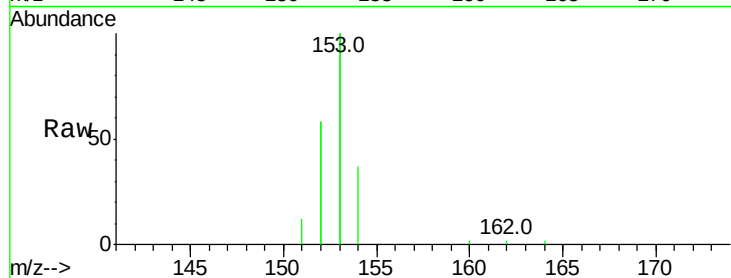




#17  
Acenaphthene  
Concen: 0.33 ng  
RT: 14.44 min Scan# 904  
Delta R.T. -0.02 min  
Lab File: BE092937.D  
Acq: 5 May 2017 19:49

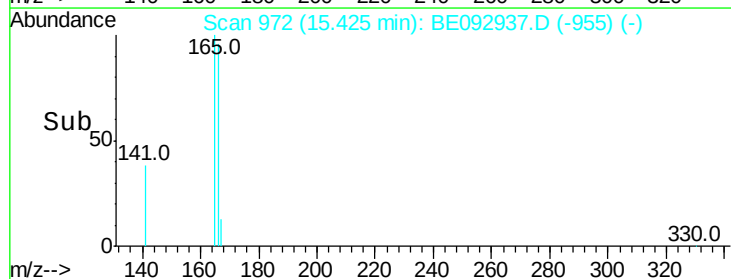
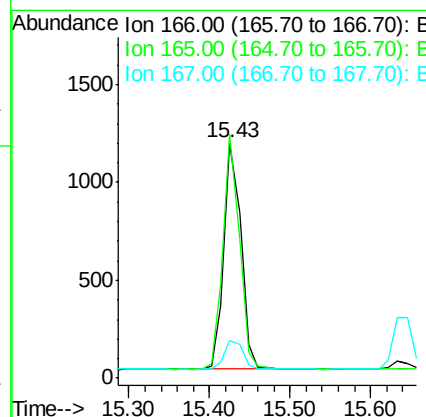
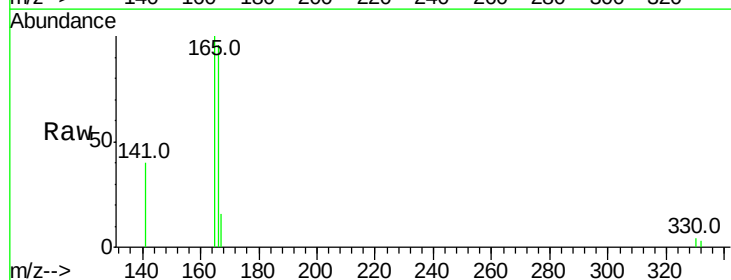
Instrument :  
BNA\_E  
ClientSampleId :

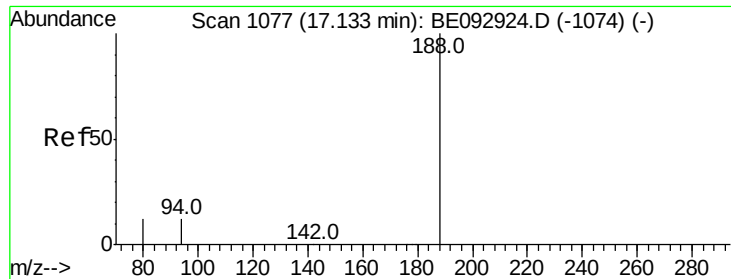
Tot Ion:154 Resp: 1483  
Ion Ratio Lower Upper  
154 100  
153 456.8 355.6 533.4  
152 233.5 177.8 266.8



#18  
Fluorene  
Concen: 0.30 ng  
RT: 15.43 min Scan# 972  
Delta R.T. -0.00 min  
Lab File: BE092937.D  
Acq: 5 May 2017 19:49

Tgt Ion:166 Resp: 1705  
Ion Ratio Lower Upper  
166 100  
165 100.5 80.7 121.1  
167 14.5 11.3 16.9





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.13 min Scan# 1078

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

Instrument :

BNA\_E

ClientSampleId :

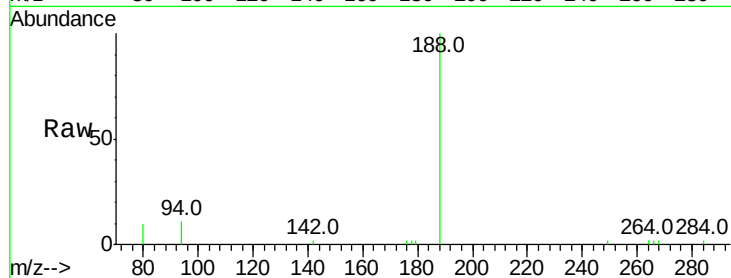
Tot Ion:188 Resp: 3440

Ion Ratio Lower Upper

188 100

94 10.6 10.2 15.4

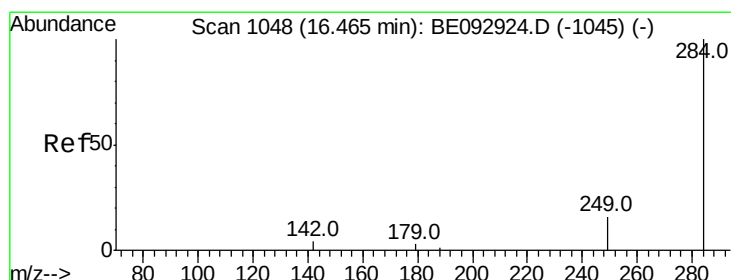
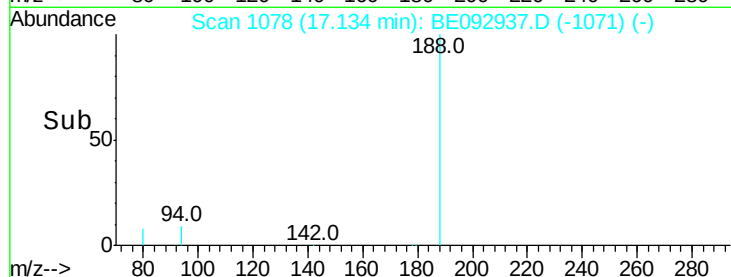
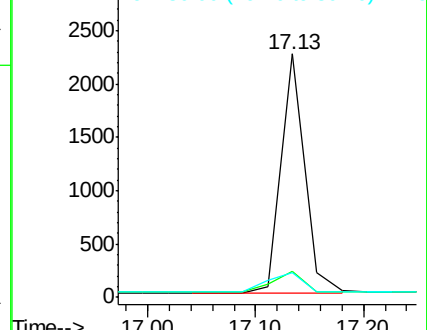
80 10.2 10.6 15.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

Hexachlorobenzene

Concen: 0.30 ng

RT: 16.47 min Scan# 1049

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

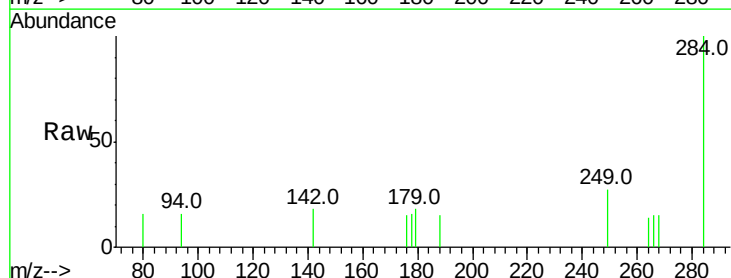
Tgt Ion:284 Resp: 445

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

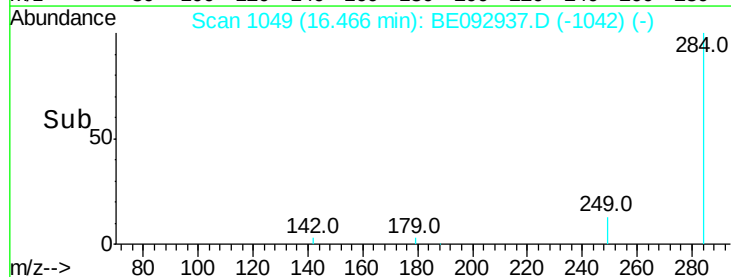
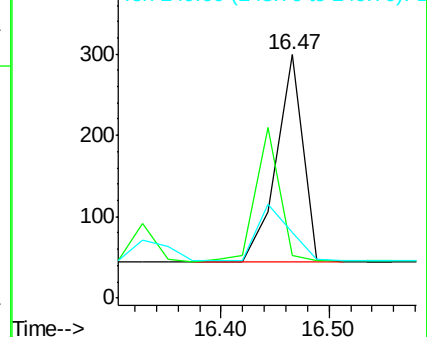
249 0.0 0.0 0.0

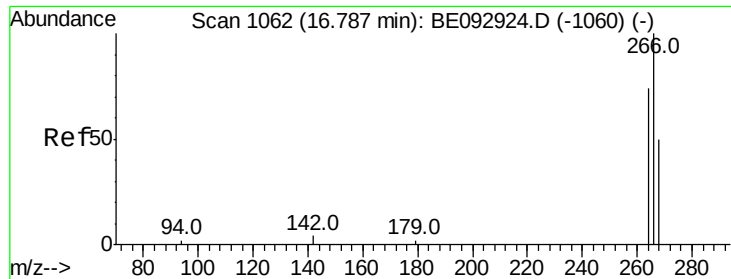


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

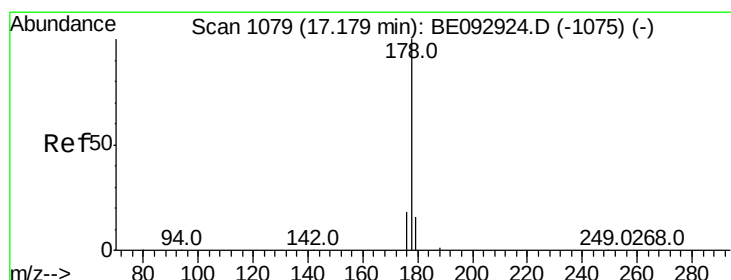
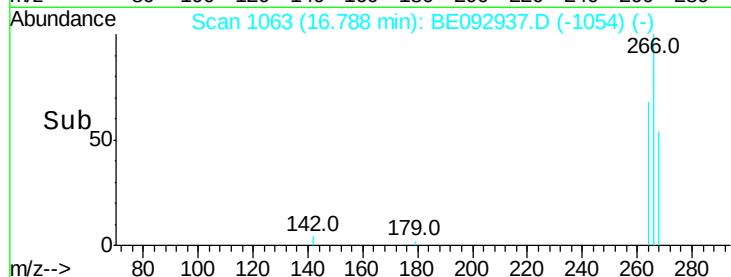
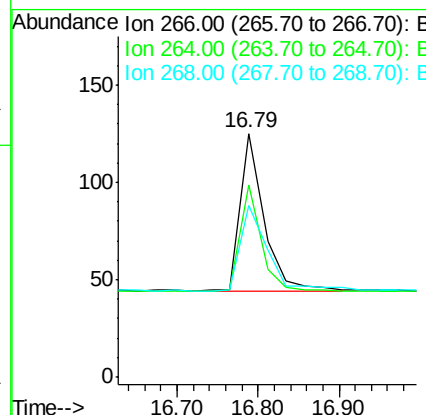
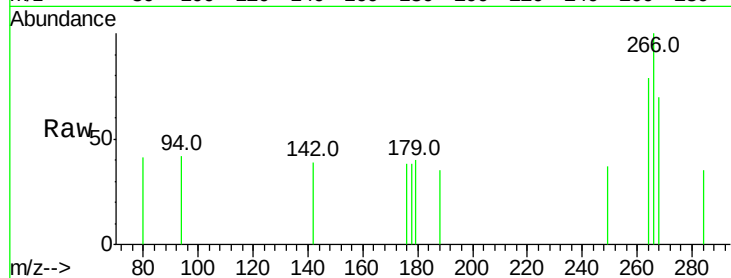




#21  
 Pentachlorophenol  
 Concen: 0.60 ng  
 RT: 16.79 min Scan# 1063  
 Delta R.T. 0.00 min  
 Lab File: BE092937.D  
 Acq: 5 May 2017 19:49

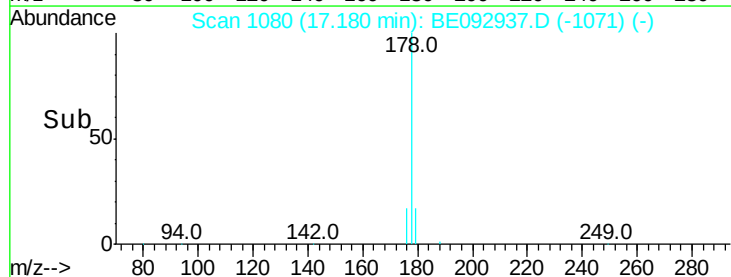
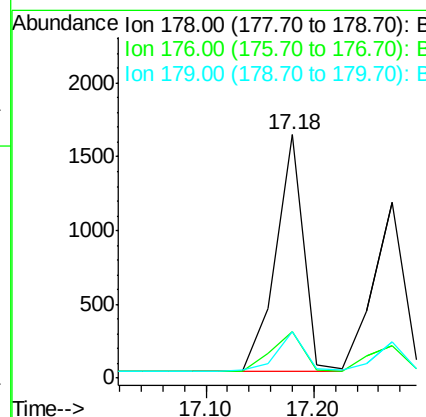
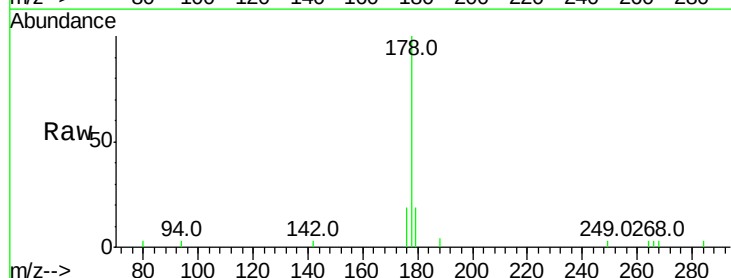
Instrument :  
 BNA\_E  
 ClientSampleId :

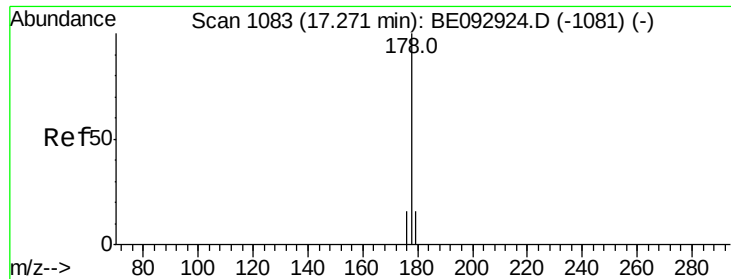
Tot Ion:266 Resp: 166  
 Ion Ratio Lower Upper  
 266 100  
 264 79.2 75.4 113.2  
 268 70.4 75.4 113.2#



#22  
 Phenanthrene  
 Concen: 0.30 ng  
 RT: 17.18 min Scan# 1080  
 Delta R.T. 0.00 min  
 Lab File: BE092937.D  
 Acq: 5 May 2017 19:49

Tgt Ion:178 Resp: 2875  
 Ion Ratio Lower Upper  
 178 100  
 176 19.0 14.2 21.4  
 179 16.0 13.6 20.4





#23

Anthracene

Concen: 0.31 ng

RT: 17.27 min Scan# 1084

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

Instrument :

BNA\_E

ClientSampleId :

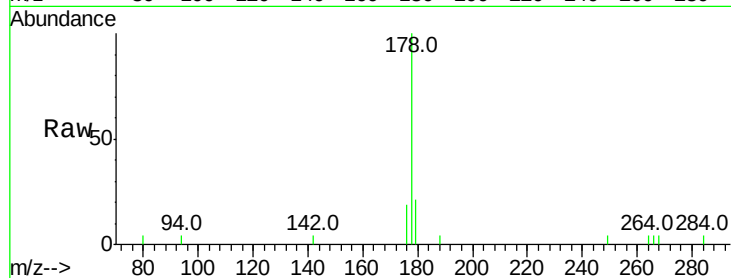
Tot Ion:178 Resp: 2290

Ion Ratio Lower Upper

178 100

176 18.2 14.7 22.1

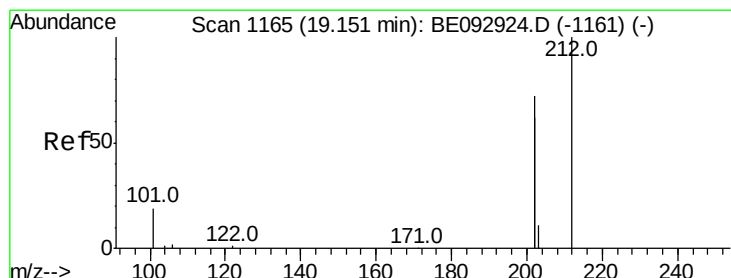
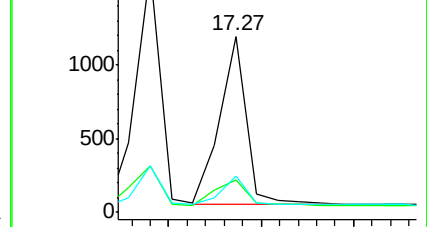
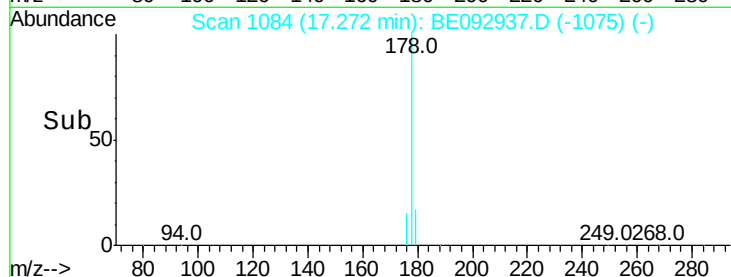
179 16.1 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Fluoranthene-d10

Concen: 0.28 ng

RT: 19.15 min Scan# 1165

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

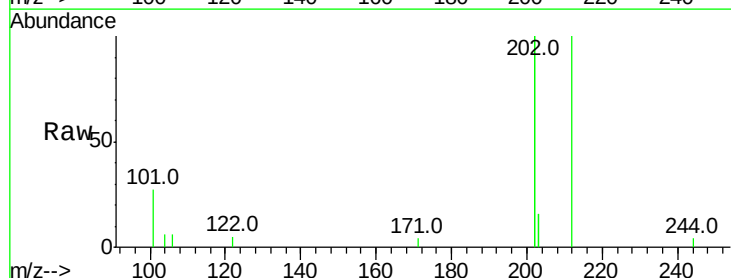
Tgt Ion:212 Resp: 2260

Ion Ratio Lower Upper

212 100

106 0.0 0.0 0.0

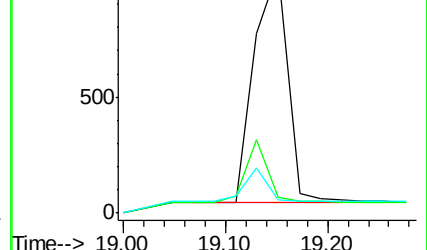
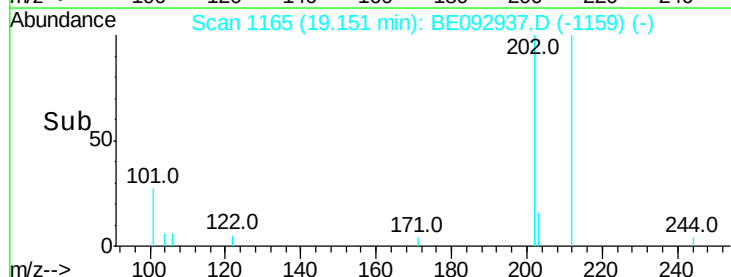
104 0.0 0.0 0.0

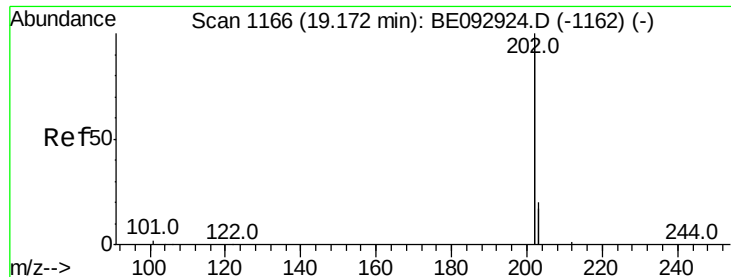


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 0.28 ng

RT: 19.17 min Scan# 1166

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

Instrument :

BNA\_E

ClientSampleId :

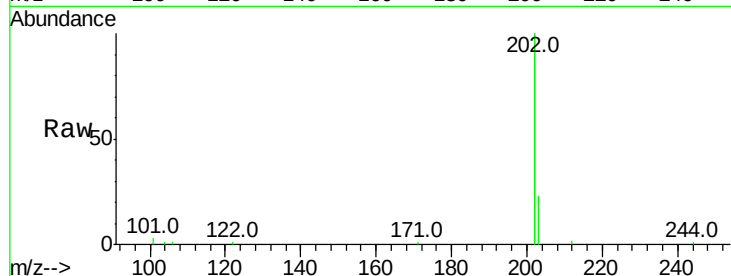
Tot Ion:202 Resp: 11682

Ion Ratio Lower Upper

202 100

101 0.0 0.0 0.0

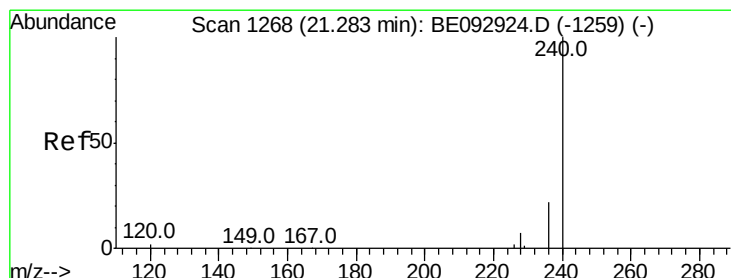
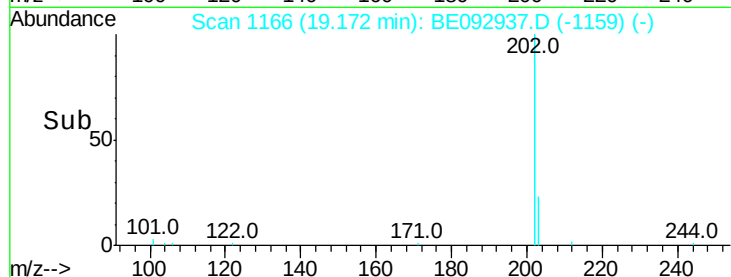
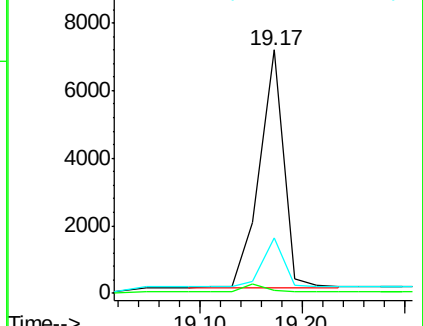
203 18.4 15.3 22.9



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: 0.40 ng

RT: 21.28 min Scan# 1268

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

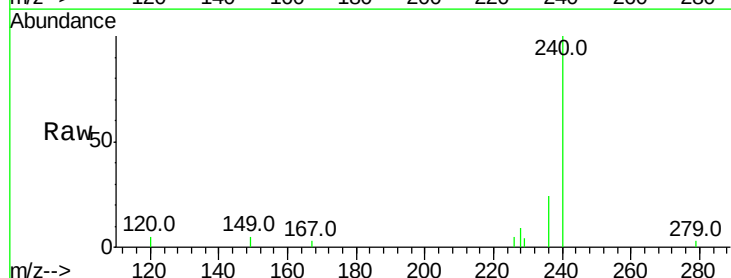
Tgt Ion:240 Resp: 2739

Ion Ratio Lower Upper

240 100

120 5.2 4.6 6.8

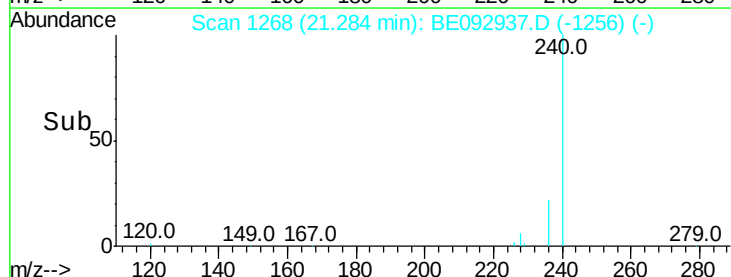
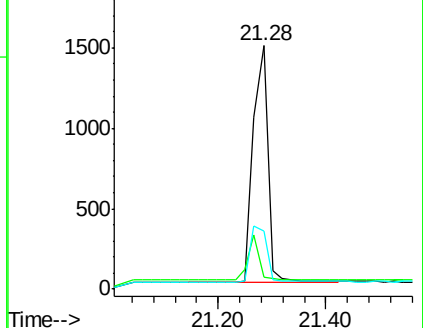
236 23.9 19.8 29.8

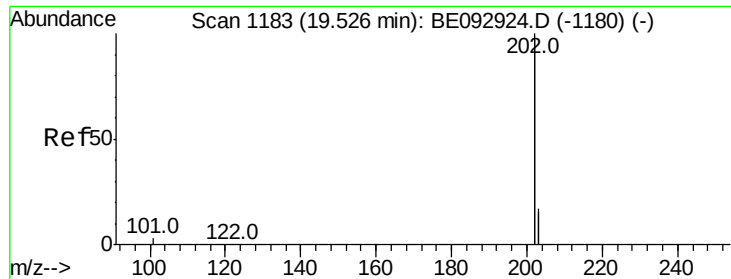


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

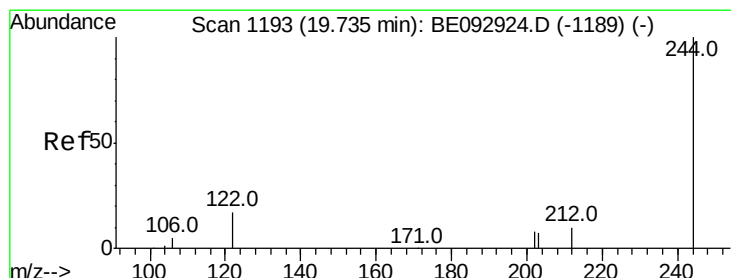
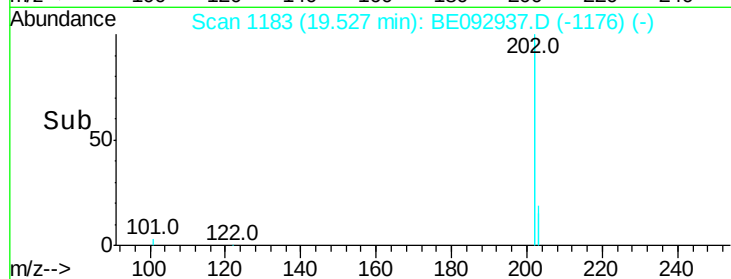
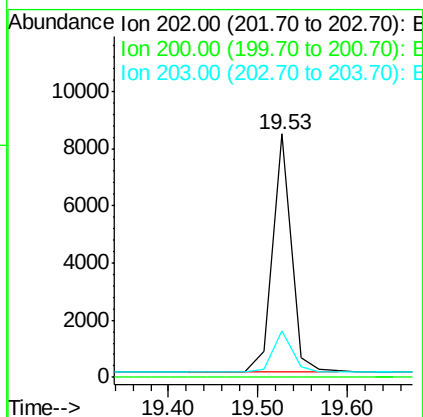
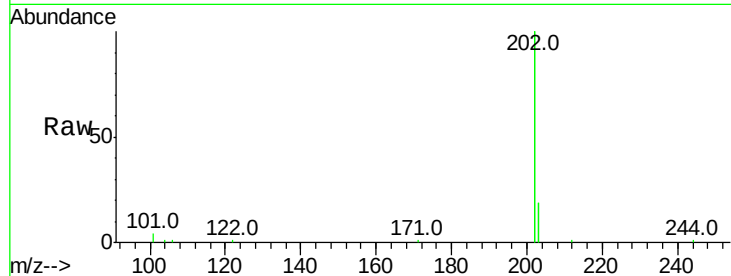




#27  
Pvrene  
Concen: 0.34 ng  
RT: 19.53 min Scan# 1183  
Delta R.T. 0.00 min  
Lab File: BE092937.D  
Acq: 5 May 2017 19:49

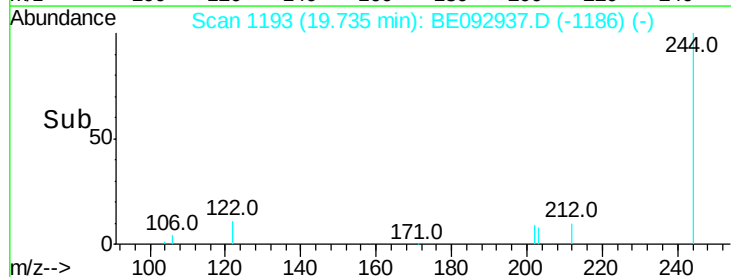
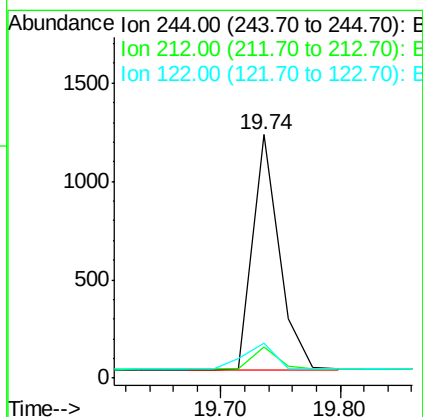
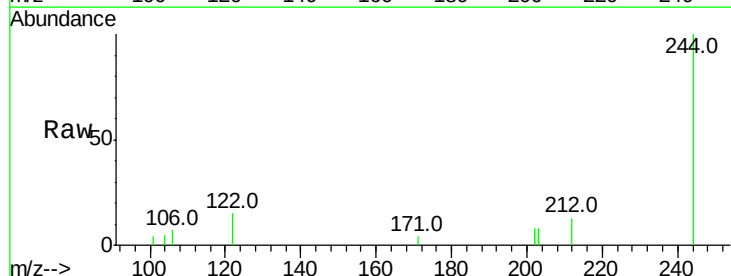
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:202 Resp: 12155  
Ion Ratio Lower Upper  
202 100  
200 0.0 0.0 0.0  
203 18.1 13.5 20.3

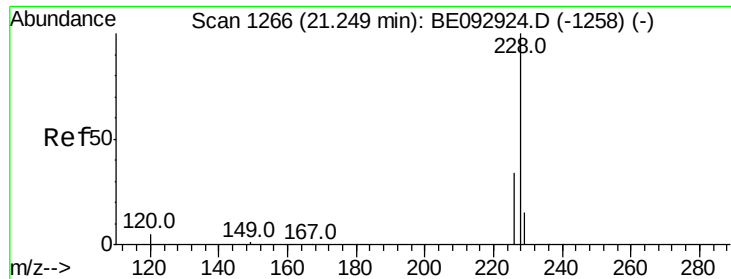


#28  
Terphenyl-d14  
Concen: 0.39 ng  
RT: 19.74 min Scan# 1193  
Delta R.T. 0.00 min  
Lab File: BE092937.D  
Acq: 5 May 2017 19:49

Tgt Ion:244 Resp: 1853  
Ion Ratio Lower Upper  
244 100  
212 12.8 18.4 27.6#  
122 14.6 23.3 34.9#







#29

Benzo(a)anthracene

Concen: 0.35 ng

RT: 21.25 min Scan# 1266

Delta R.T. 0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

Instrument :

BNA\_E

ClientSampleId :

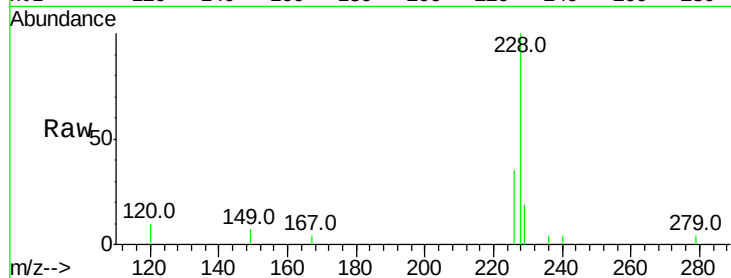
Tot Ion:228 Resp: 2222

Ion Ratio Lower Upper

228 100

226 35.1 32.0 48.0

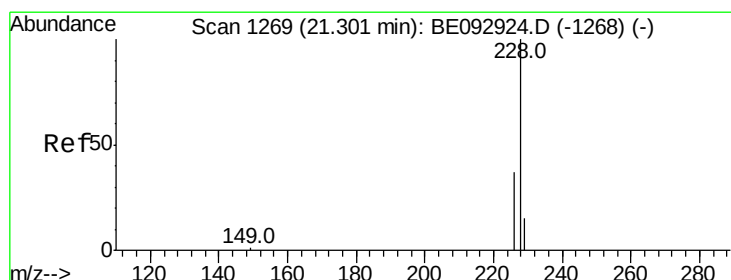
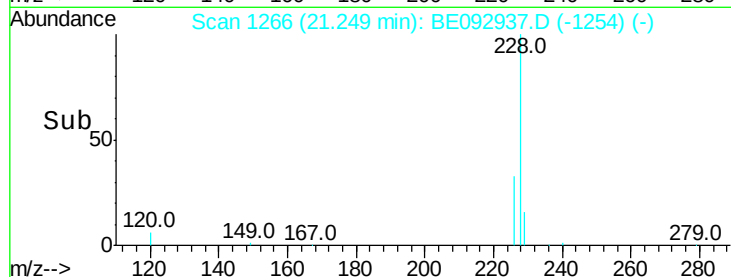
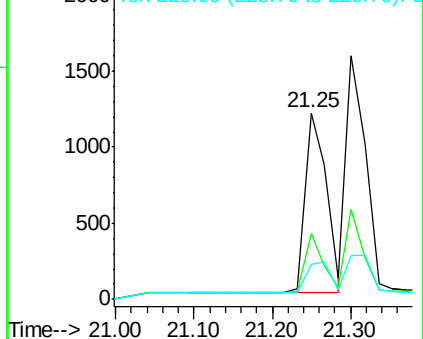
229 18.9 21.4 32.0#



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



#30

Chrysene

Concen: 0.27 ng

RT: 21.25 min Scan# 1266

Delta R.T. -0.05 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

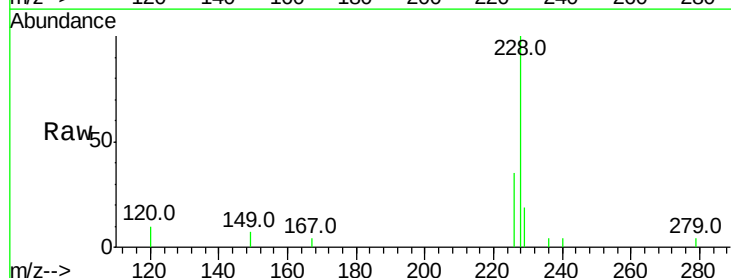
Tgt Ion:228 Resp: 2222

Ion Ratio Lower Upper

228 100

226 35.1 34.2 51.2

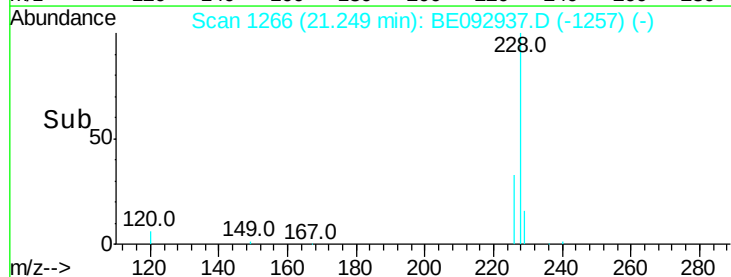
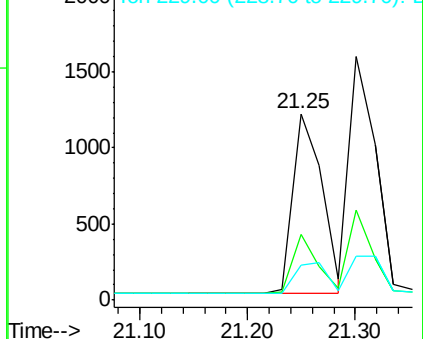
229 18.9 18.6 28.0

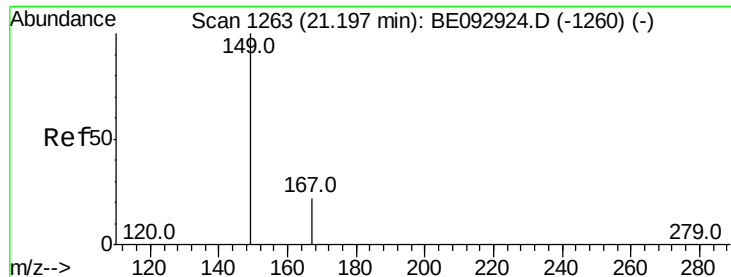


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

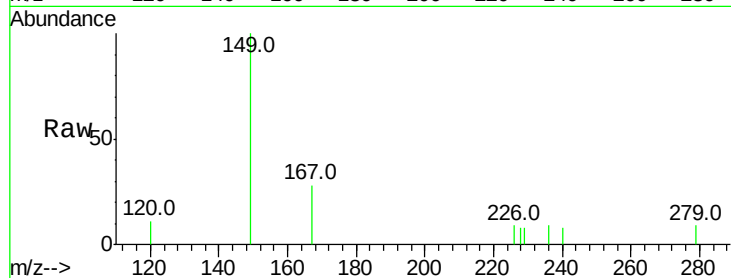




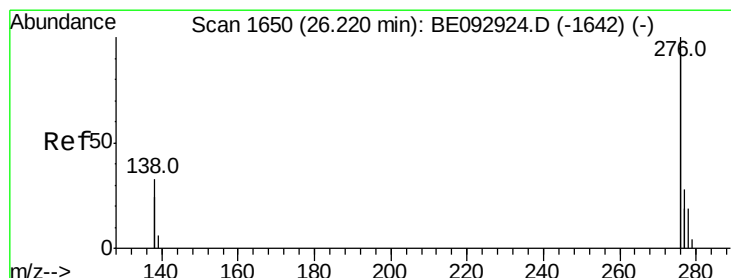
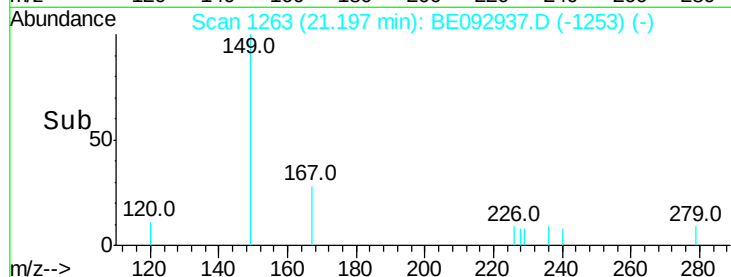
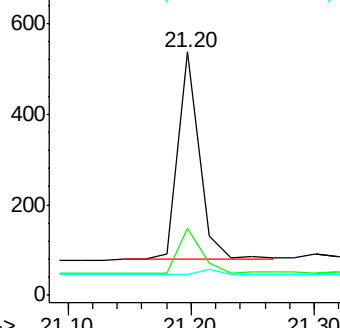
#31  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.32 ng  
 RT: 21.20 min Scan# 1263  
 Delta R.T. 0.00 min  
 Lab File: BE092937.D  
 Acq: 5 May 2017 19:49

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:149 Resp: 559  
 Ion Ratio Lower Upper  
 149 100  
 167 23.6 20.9 31.3  
 279 0.0 0.0 0.0

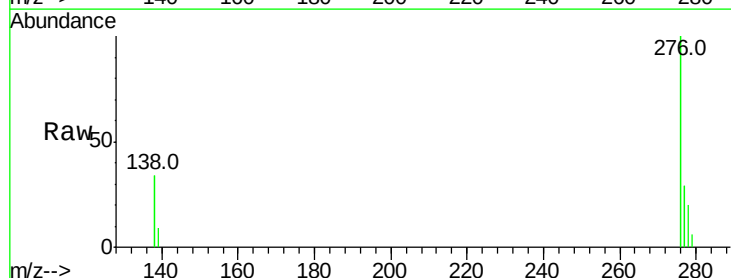


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

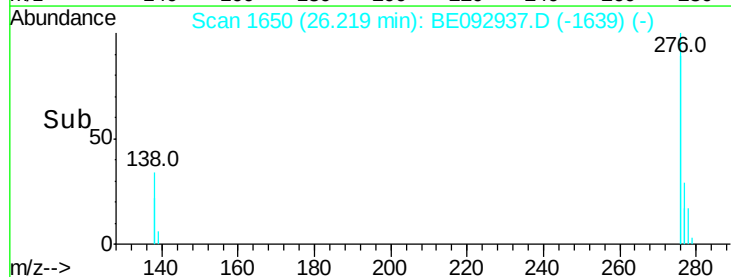
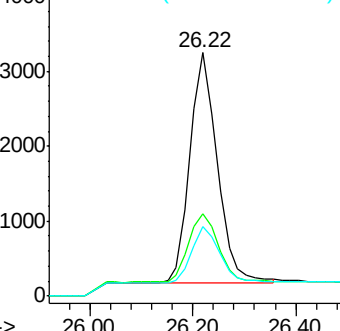


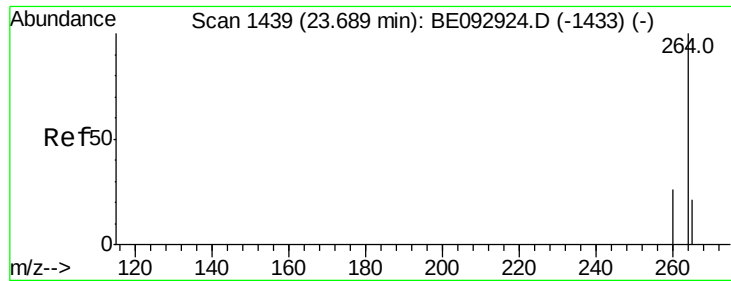
#32  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.38 ng  
 RT: 26.22 min Scan# 1650  
 Delta R.T. -0.00 min  
 Lab File: BE092937.D  
 Acq: 5 May 2017 19:49

Tgt Ion:276 Resp: 11293  
 Ion Ratio Lower Upper  
 276 100  
 138 32.7 25.8 38.6  
 277 25.0 20.2 30.4



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

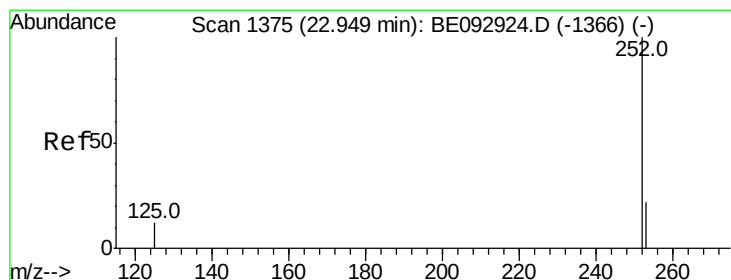
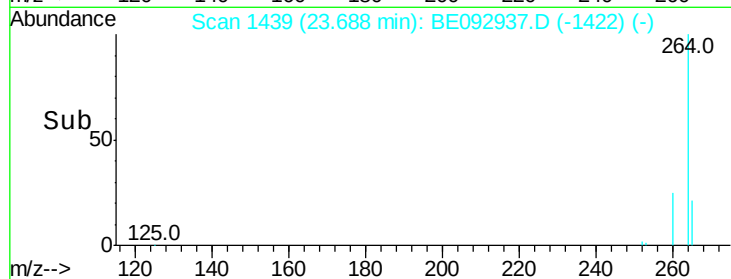
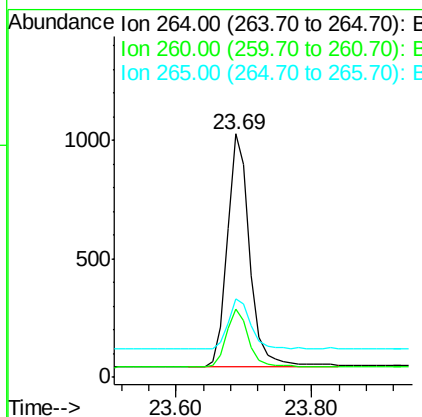
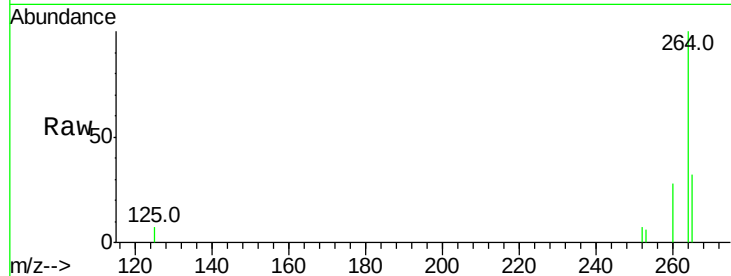




#33  
 Pervlene-d12  
 Concen: 0.40 ng  
 RT: 23.69 min Scan# 1439  
 Delta R.T. -0.00 min  
 Lab File: BE092937.D  
 Acq: 5 May 2017 19:49

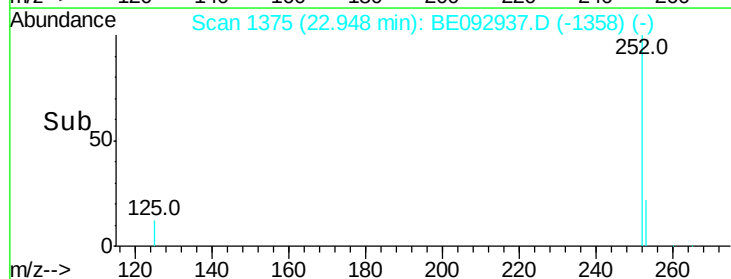
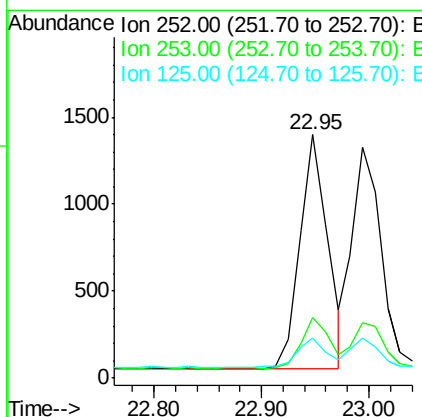
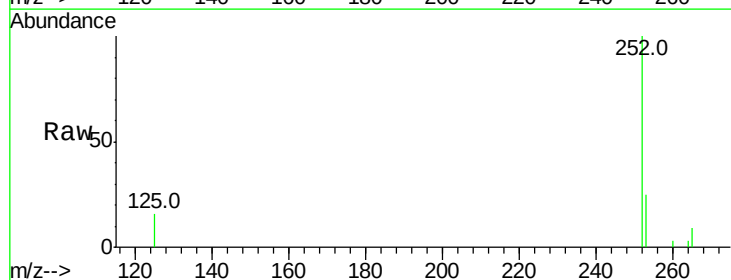
Instrument :  
 BNA\_E  
 ClientSampleId :

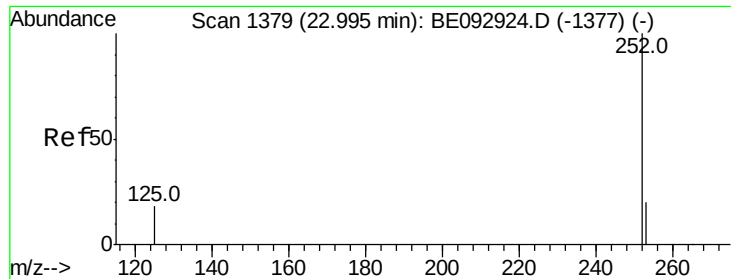
Tot Ion:264 Resp: 2300  
 Ion Ratio Lower Upper  
 264 100  
 260 28.1 23.5 35.3  
 265 32.0 27.2 40.8



#34  
 Benzo(b)fluoranthene  
 Concen: 0.32 ng  
 RT: 22.95 min Scan# 1375  
 Delta R.T. -0.00 min  
 Lab File: BE092937.D  
 Acq: 5 May 2017 19:49

Tgt Ion:252 Resp: 2438  
 Ion Ratio Lower Upper  
 252 100  
 253 25.1 24.7 37.1  
 125 16.3 20.3 30.5#

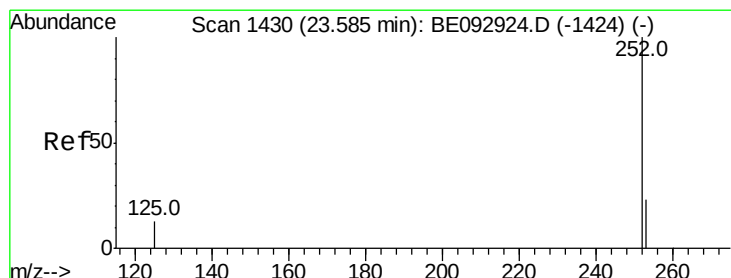
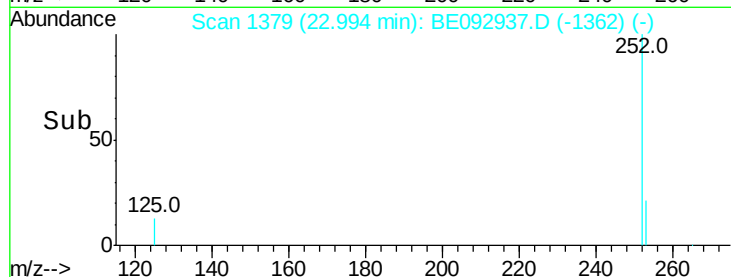
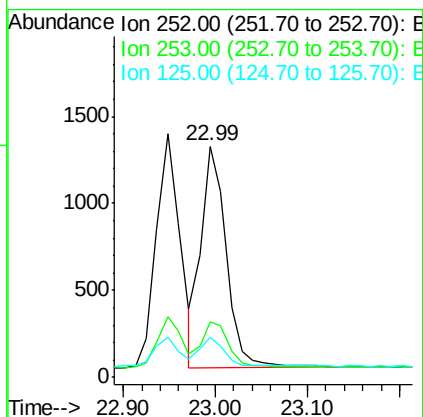
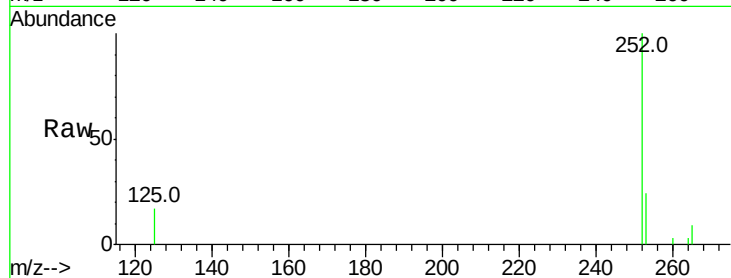




#35  
Benzo(k)fluoranthene  
Concen: 0.32 ng  
RT: 22.99 min Scan# 1379  
Delta R.T. -0.00 min  
Lab File: BE092937.D  
Acq: 5 May 2017 19:49

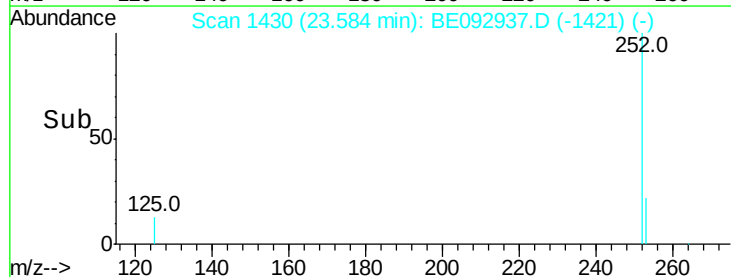
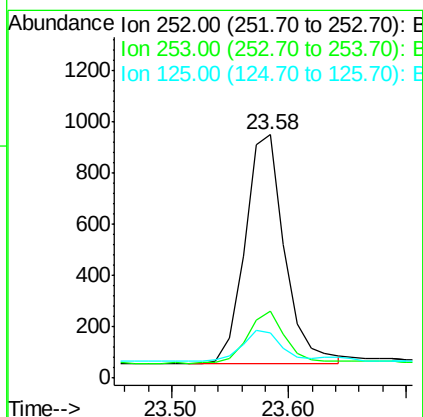
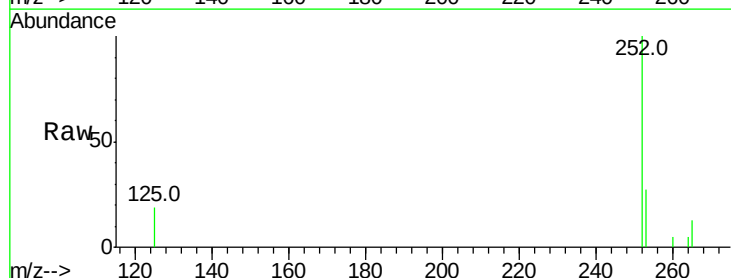
Instrument :  
BNA\_E  
ClientSampleId :

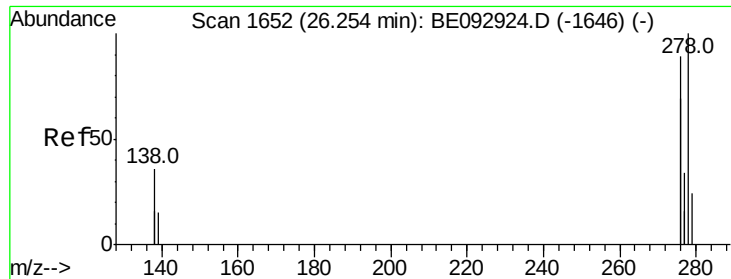
Tot Ion:252 Resp: 2411  
Ion Ratio Lower Upper  
252 100  
253 24.2 25.8 38.8#  
125 17.4 22.9 34.3#



#36  
Benzo(a)pyrene  
Concen: 0.34 ng  
RT: 23.58 min Scan# 1430  
Delta R.T. -0.00 min  
Lab File: BE092937.D  
Acq: 5 May 2017 19:49

Tgt Ion:252 Resp: 2101  
Ion Ratio Lower Upper  
252 100  
253 27.4 31.3 46.9#  
125 18.9 26.4 39.6#





#37

Dibenzo(a,h)anthracene

Concen: 0.34 ng

RT: 26.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

Instrument :

BNA\_E

ClientSampleId :

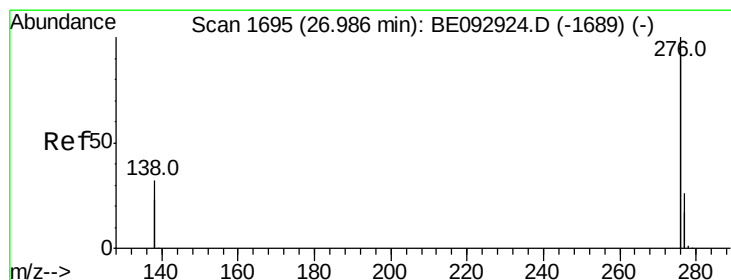
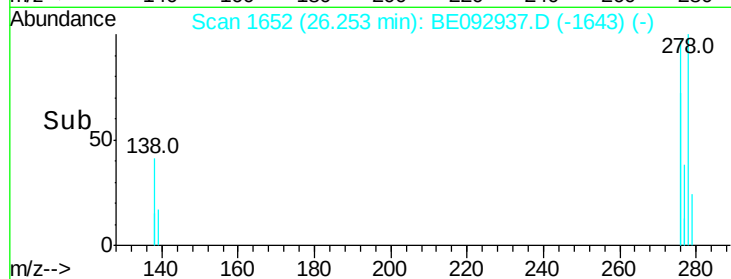
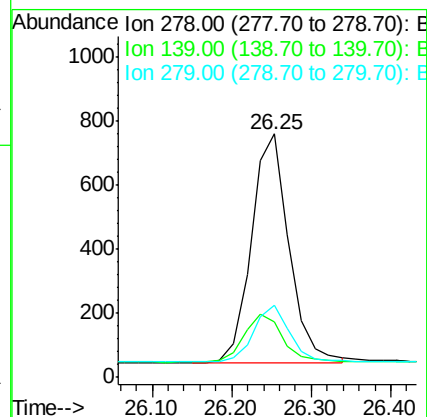
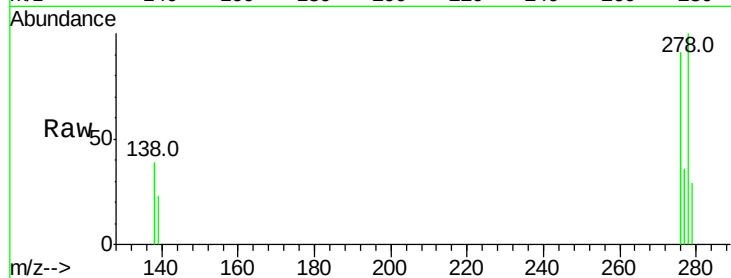
Tot Ion:278 Resp: 2365

Ion Ratio Lower Upper

278 100

139 22.5 27.4 41.2#

279 29.5 33.3 49.9#



#38

Benzo(g,h,i)perylene

Concen: 0.35 ng

RT: 26.99 min Scan# 1695

Delta R.T. -0.00 min

Lab File: BE092937.D

Acq: 5 May 2017 19:49

Tgt Ion:276 Resp: 10147

Ion Ratio Lower Upper

276 100

277 26.7 29.9 44.9#

138 32.2 34.6 51.8#

