

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092315\  
 Data File : BE090956.D  
 Acq On : 23 Sep 2015 19:21  
 Operator : UM/IZ  
 Sample : G3651-04  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 CPS043034

Quant Time: Sep 24 01:14:49 2015  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE091815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 18 18:17:34 2015  
 Response via : Initial Calibration

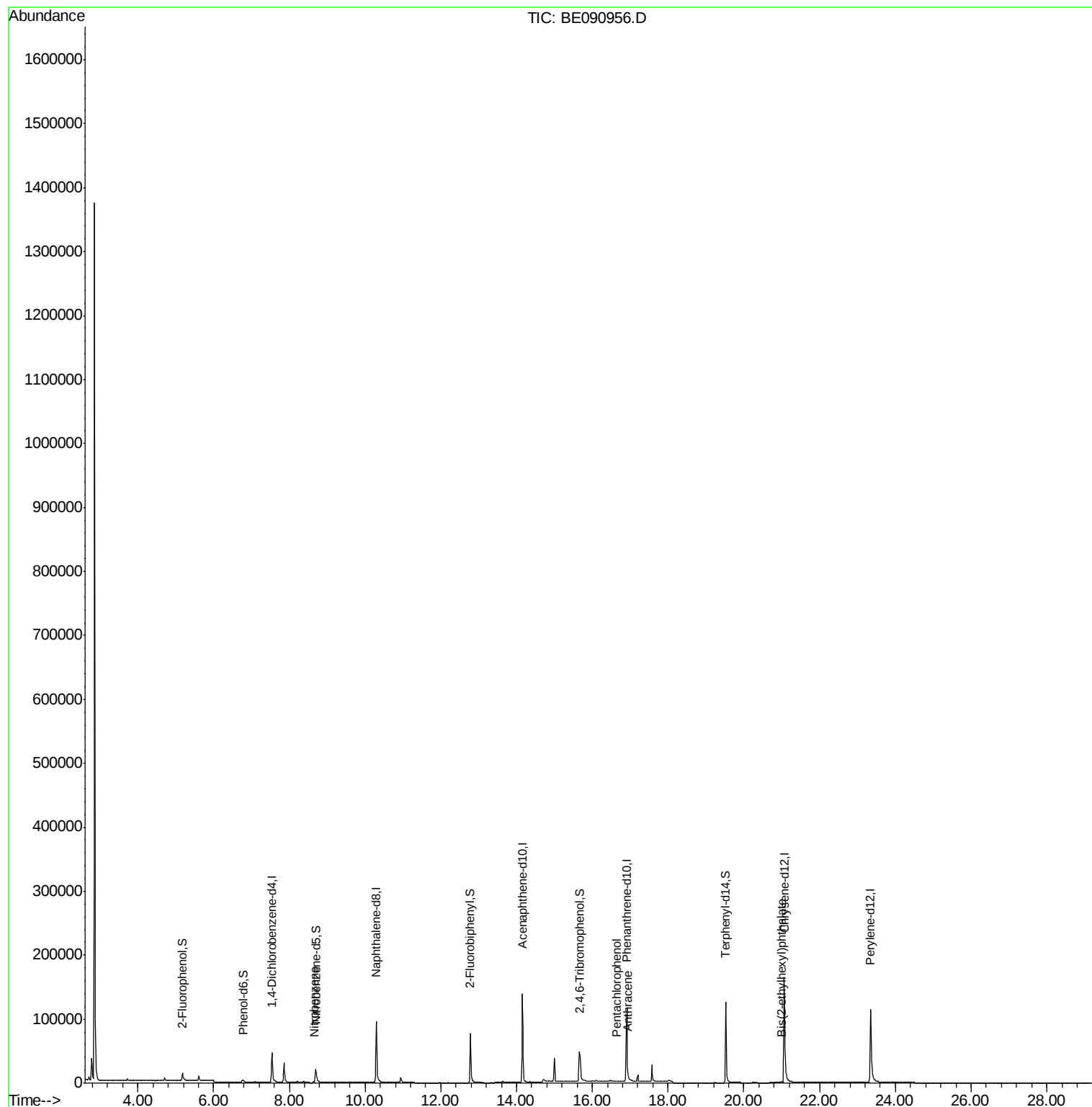
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.54  | 152  | 31700    | 5.00      | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.29 | 136  | 159184   | 5.00      | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.15 | 164  | 88955    | 5.00      | ng    | -0.01    |
| 19) Phenanthrene-d10           | 16.91 | 188  | 197159   | 5.00      | ng    | 0.00     |
| 26) Chrysene-d12               | 21.07 | 240  | 230900   | 5.00      | ng    | 0.00     |
| 33) Perylene-d12               | 23.35 | 264  | 202605   | 5.00      | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 4) 2-Fluorophenol              | 5.18  | 112  | 16022    | 2.22      | ng    | 0.00     |
| 5) Phenol-d6                   | 6.77  | 99   | 12617    | 1.28      | ng    | 0.02     |
| 8) Nitrobenzene-d5             | 8.70  | 82   | 35041    | 3.19      | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 15.67 | 330  | 27294    | 8.69      | ng    | -0.02    |
| 15) 2-Fluorobiphenyl           | 12.78 | 172  | 96694    | 3.83      | ng    | -0.02    |
| 28) Terphenyl-d14              | 19.52 | 244  | 163392   | 6.27      | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 2) 1,4-Dioxane                 | 3.25  | 88   | 67       | Below Cal | #     | 1        |
| 3) n-Nitrosodimethylamine      | 3.44  | 42   | 139      | Below Cal | #     | 14       |
| 6) bis(2-Chloroethyl)ether     | 7.00  | 93   | 16       | Below Cal | #     | 16       |
| 9) Nitrobenzene                | 8.64  | 77   | 2348     | 0.19      | ng    | 31       |
| 10) Naphthalene                | 10.35 | 128  | 1046     | Below Cal | #     | 72       |
| 11) Hexachlorobutadiene        | 10.62 | 225  | 9        | Below Cal | #     | 43       |
| 18) Fluorene                   | 15.22 | 166  | 406      | Below Cal | #     | 75       |
| 21) Hexachlorobenzene          | 16.23 | 284  | 31       | Below Cal | #     | 1        |
| 22) Pentachlorophenol          | 16.63 | 266  | 70       | 0.20      | ng    | 59       |
| 23) Phenanthrene               | 16.94 | 178  | 1881     | Below Cal | #     | 86       |
| 24) Anthracene                 | 16.94 | 178  | 1950     | 0.04      | ng    | 87       |
| 30) Chrysene                   | 21.10 | 228  | 890      | Below Cal | #     | 78       |
| 31) Bis(2-ethylhexyl)phthalate | 21.00 | 149  | 2234     | 0.25      | ng    | 99       |

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

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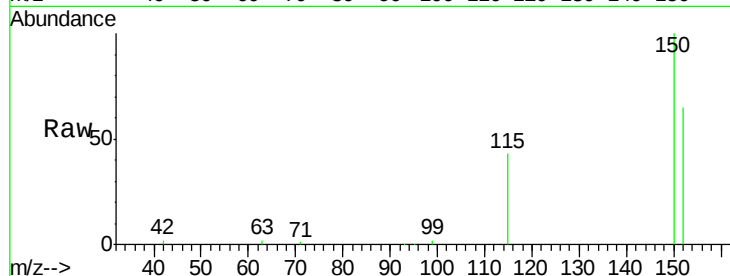


#1

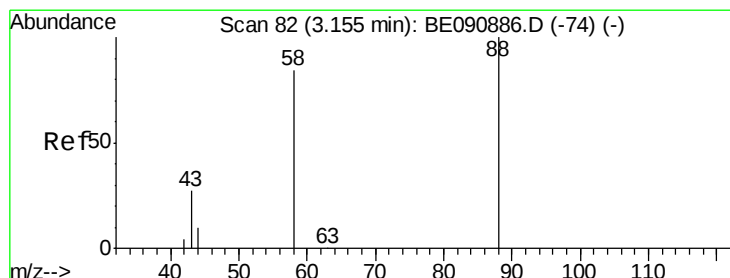
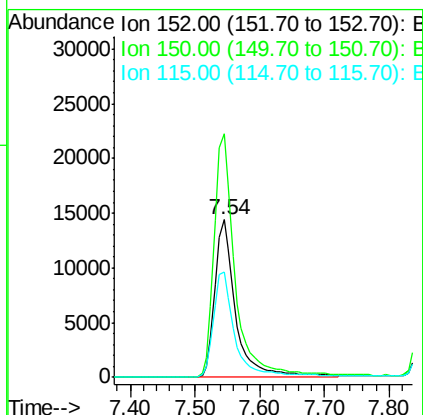
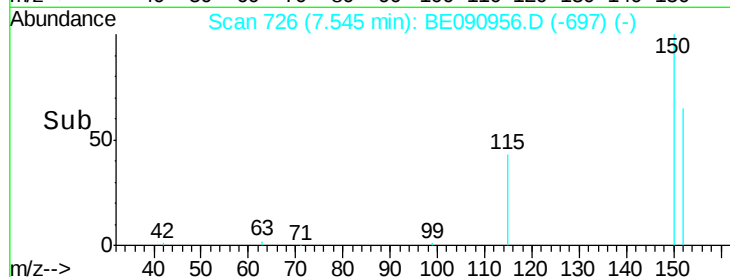
1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 7.54 min Scan# 726  
Delta R.T. -0.00 min  
Lab File: BE090956.D  
Acq: 23 Sep 2015 19:21

Instrument :  
BNA\_E  
ClientSampleId :  
CPS043034

Tot Ion:152 Resp: 31700  
Ion Ratio Lower Upper  
152 100  
150 154.7 122.2 183.4  
115 67.2 51.0 76.4



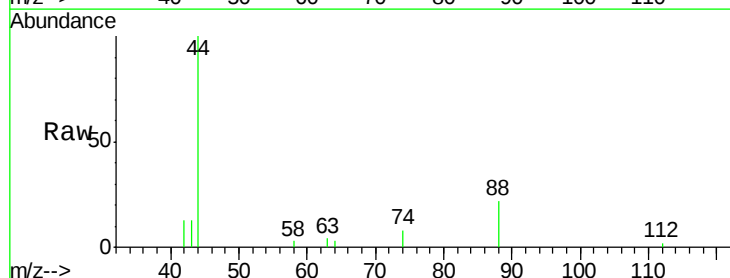
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



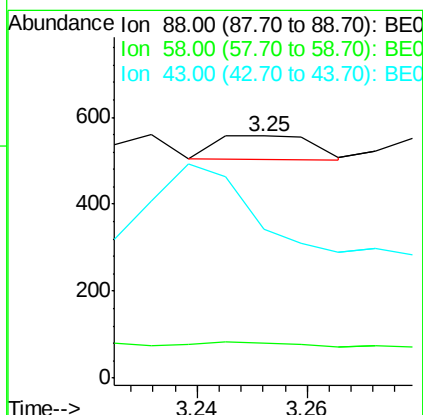
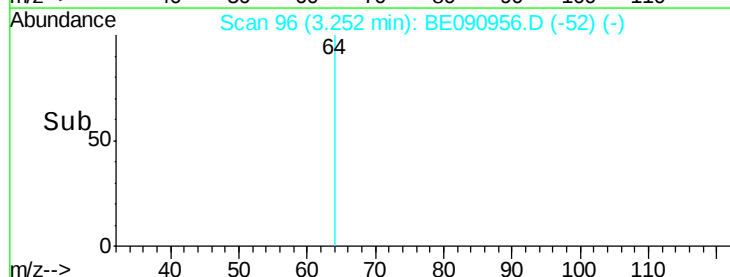
#2

1,4-Dioxane  
Concen: Below Cal  
RT: 3.25 min Scan# 96  
Delta R.T. 0.10 min  
Lab File: BE090956.D  
Acq: 23 Sep 2015 19:21

Tgt Ion: 88 Resp: 67  
Ion Ratio Lower Upper  
88 100  
58 25.4 68.4 102.6#  
43 750.7 26.9 40.3#



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



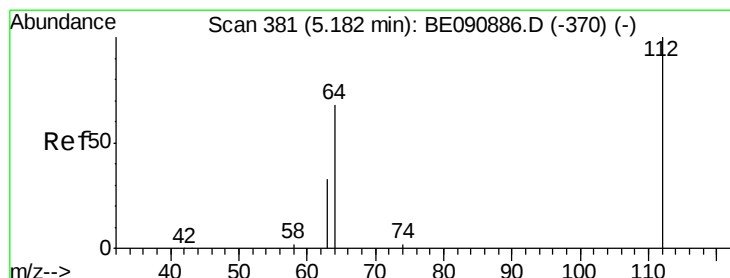
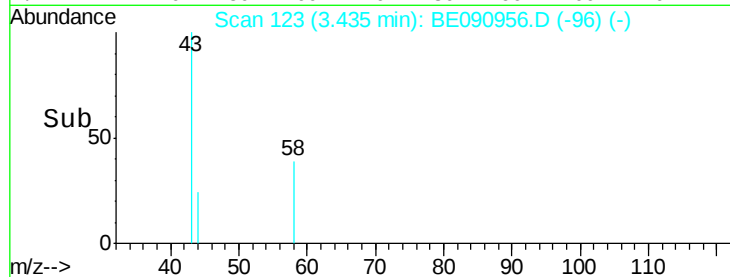
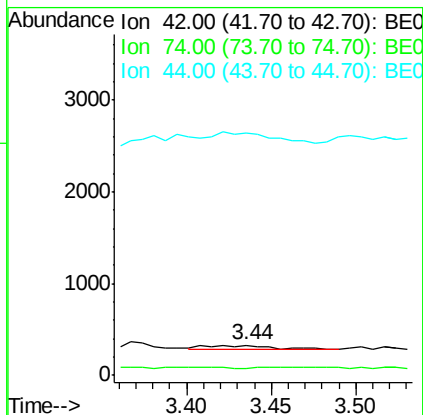
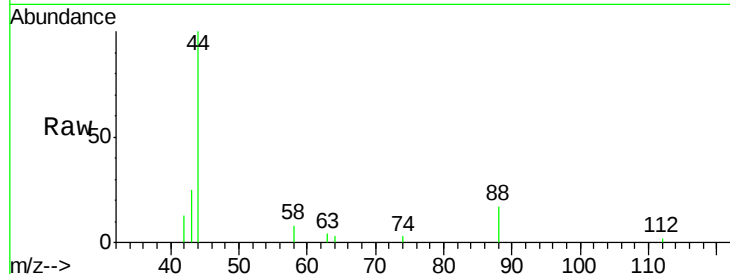


#3

n-Nitrosodimethylamine  
 Concen: Below Cal  
 RT: 3.44 min Scan# 123  
 Delta R.T. -0.02 min  
 Lab File: BE090956.D  
 Acq: 23 Sep 2015 19:21

Instrument :  
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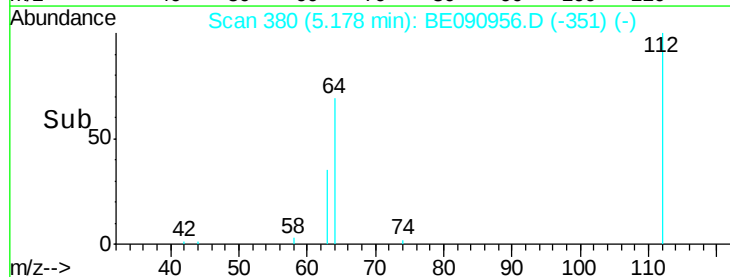
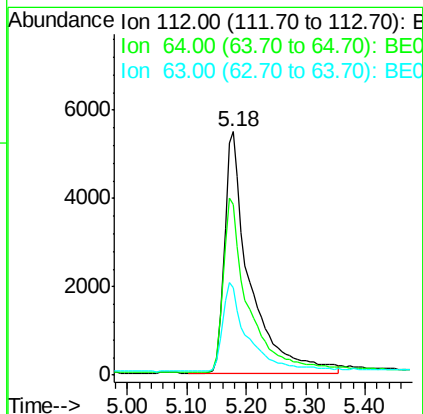
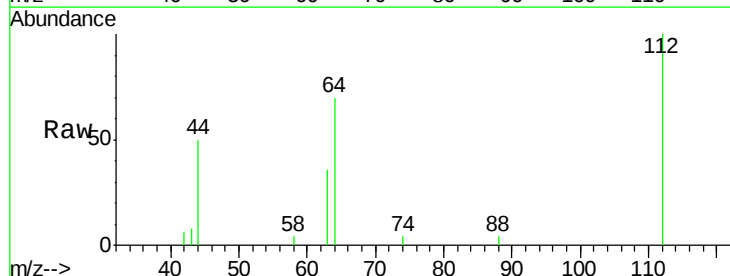
Tot Ion: 42 Resp: 139  
 Ion Ratio Lower Upper  
 42 100  
 74 10.1 83.7 125.5#  
 44 0.0 10.0 15.0#

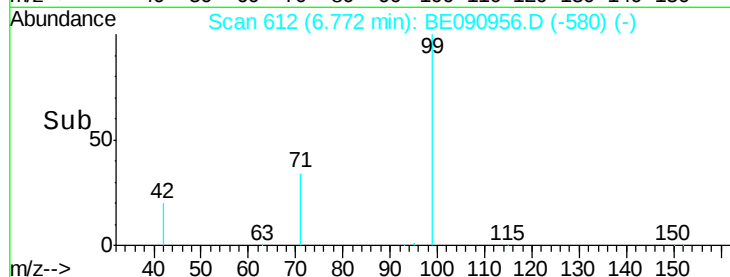
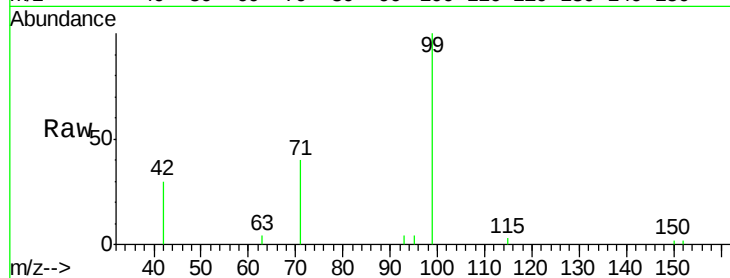
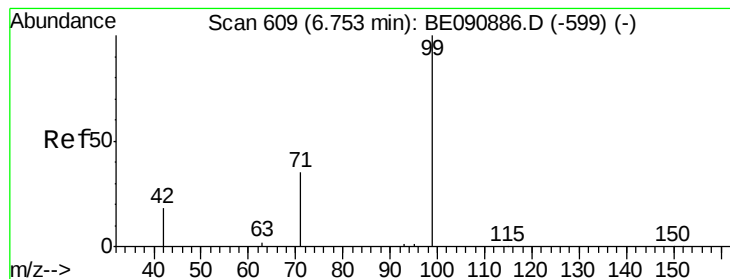


#4

2-Fluorophenol  
 Concen: 2.22 ng  
 RT: 5.18 min Scan# 380  
 Delta R.T. -0.00 min  
 Lab File: BE090956.D  
 Acq: 23 Sep 2015 19:21

Tgt Ion: 112 Resp: 16022  
 Ion Ratio Lower Upper  
 112 100  
 64 72.1 57.3 85.9  
 63 36.7 29.2 43.8





#5

Phenol-d6

Concen: 1.28 ng

RT: 6.77 min Scan# 612

Delta R.T. 0.02 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

Instrument :

BNA\_E

ClientSampleId :

CPS043034

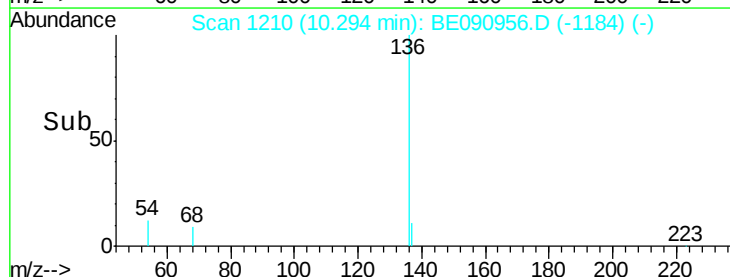
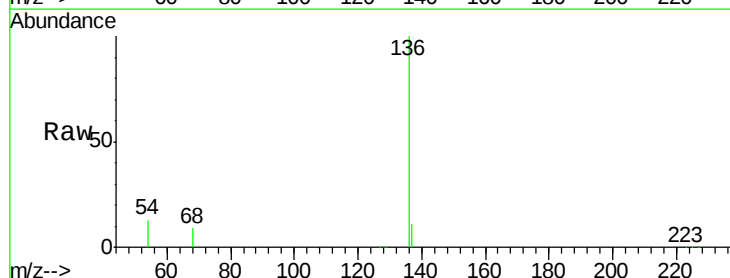
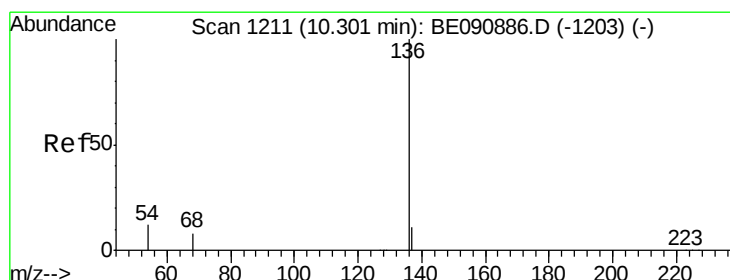
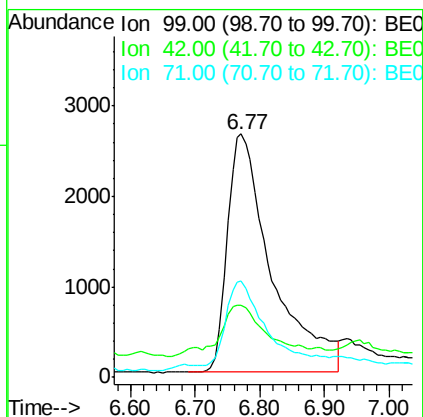
Tot Ion: 99 Resp: 12617

Ion Ratio Lower Upper

99 100

42 16.9 16.8 25.2

71 32.8 28.3 42.5



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.29 min Scan# 1210

Delta R.T. -0.01 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

Tgt Ion: 136 Resp: 159184

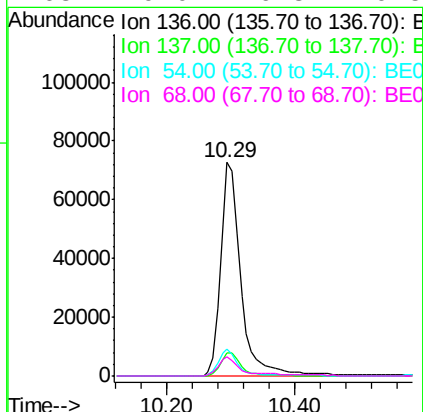
Ion Ratio Lower Upper

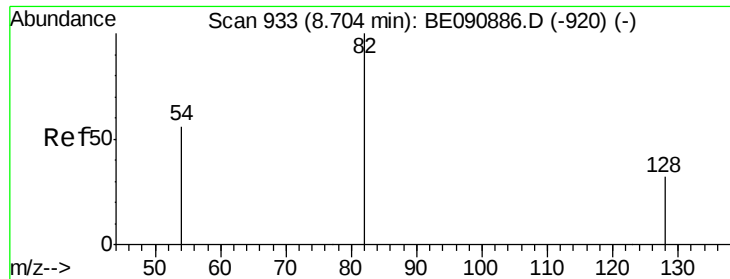
136 100

137 11.1 8.7 13.1

54 12.5 9.0 13.6

68 9.0 6.3 9.5





#8

Nitrobenzene-d5

Concen: 3.19 ng

RT: 8.70 min Scan# 931

Delta R.T. -0.01 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

Instrument :

BNA\_E

ClientSampleId :

CPS043034

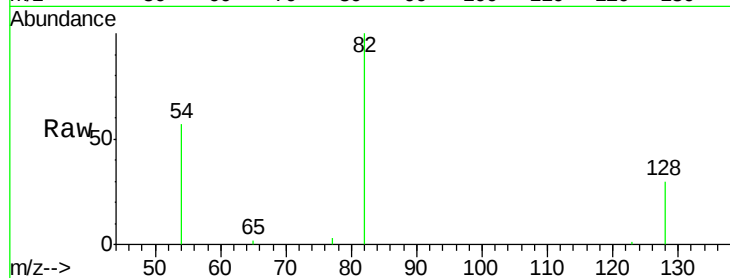
Tot Ion: 82 Resp: 35041

Ion Ratio Lower Upper

82 100

128 29.8 25.0 37.4

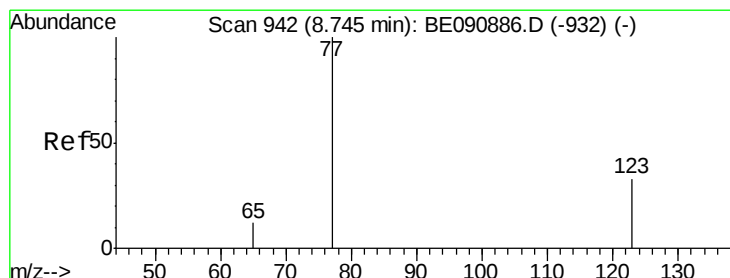
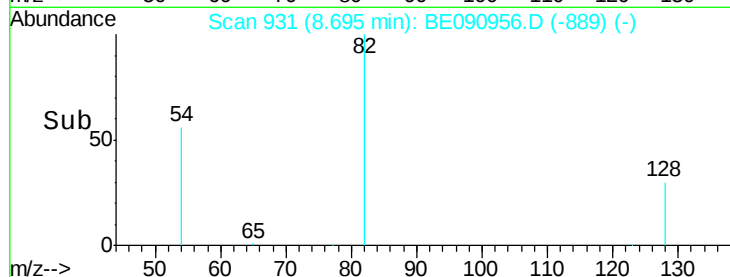
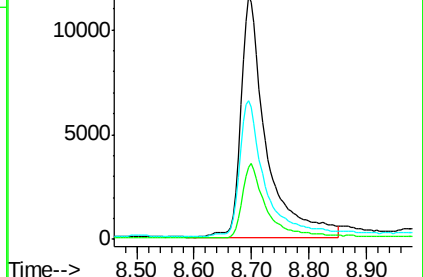
54 56.9 46.3 69.5



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



#9

Nitrobenzene

Concen: 0.19 ng

RT: 8.64 min Scan# 919

Delta R.T. -0.10 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

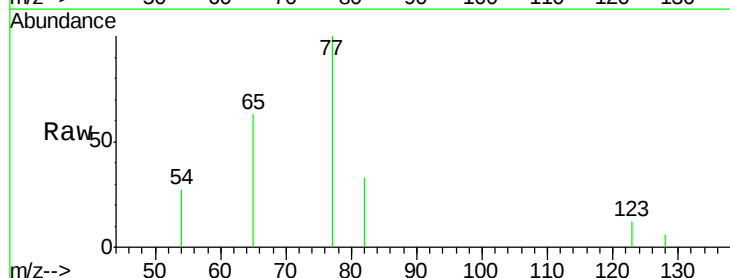
Tgt Ion: 77 Resp: 2348

Ion Ratio Lower Upper

77 100

123 10.9 25.1 37.7#

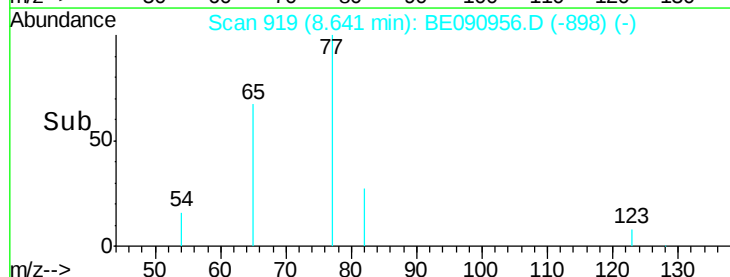
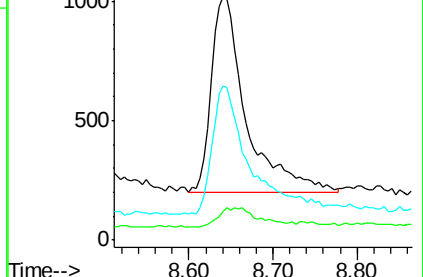
65 71.5 9.9 14.9#

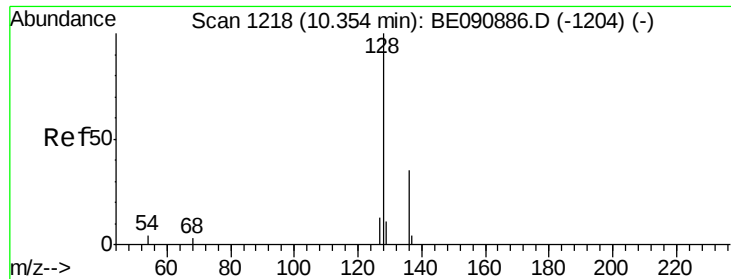


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0





#10

Naphthalene

Concen: Below Cal

RT: 10.35 min Scan# 1217

Delta R.T. -0.01 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

Instrument :

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ClientSampleId :

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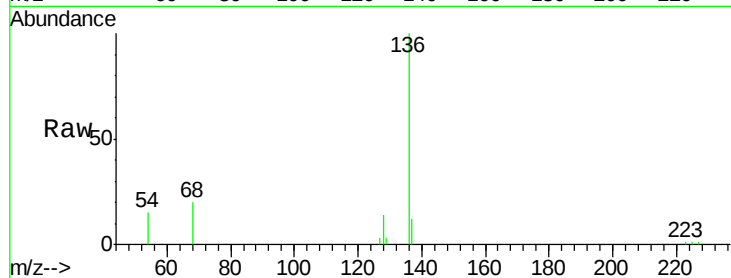
Tot Ion:128 Resp: 1046

Ion Ratio Lower Upper

128 100

129 21.6 8.4 12.6#

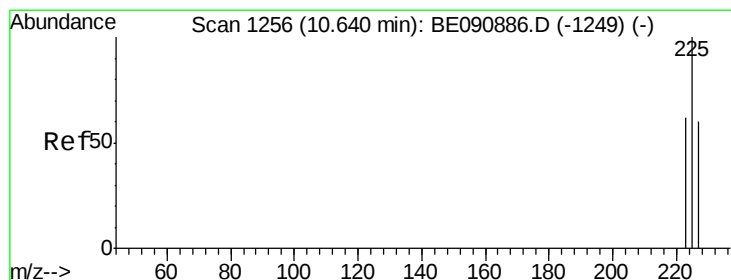
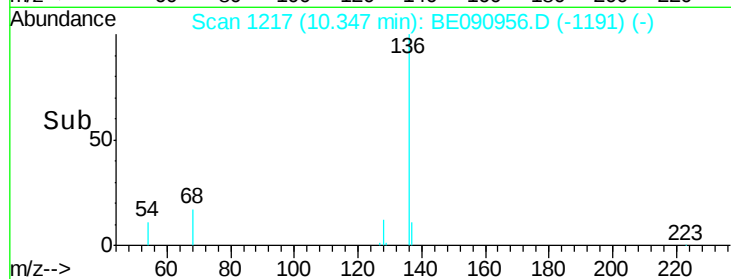
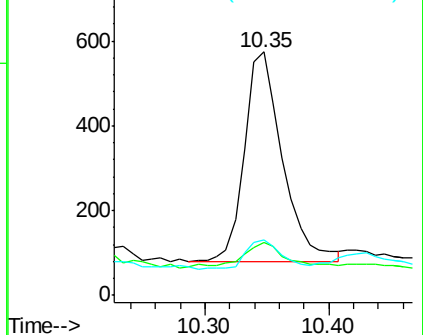
127 22.8 9.9 14.9#



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



#11

Hexachlorobutadiene

Concen: Below Cal

RT: 10.62 min Scan# 1253

Delta R.T. -0.02 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

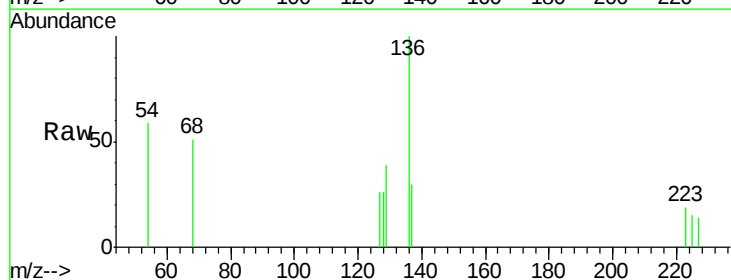
Tgt Ion:225 Resp: 9

Ion Ratio Lower Upper

225 100

223 88.9 50.6 76.0#

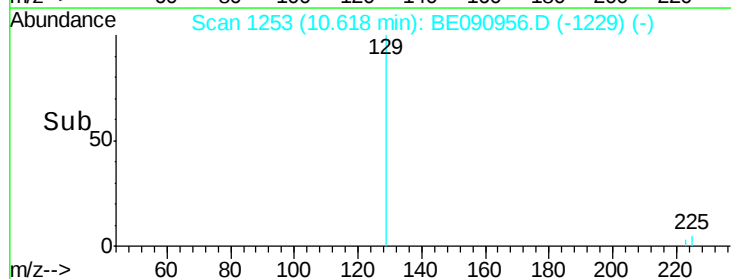
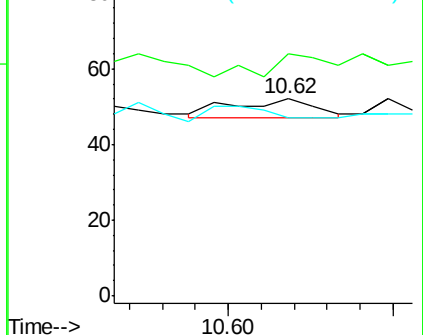
227 0.0 51.0 76.6#

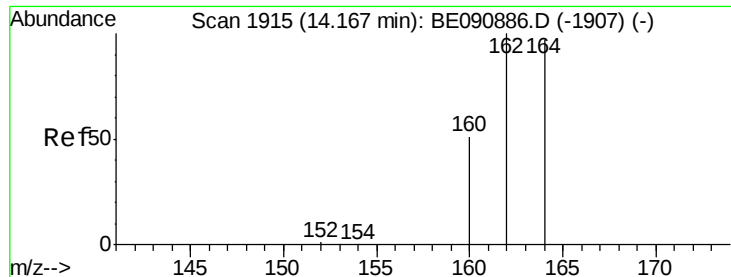


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.15 min Scan# 1913

Delta R.T. -0.01 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

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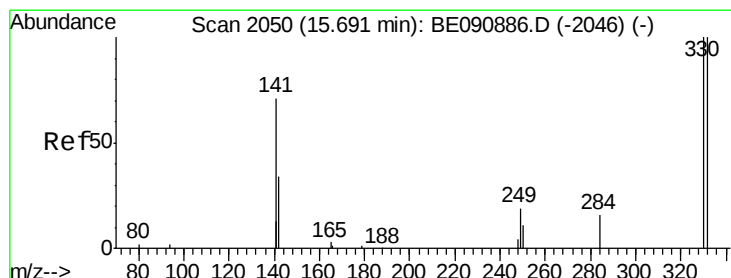
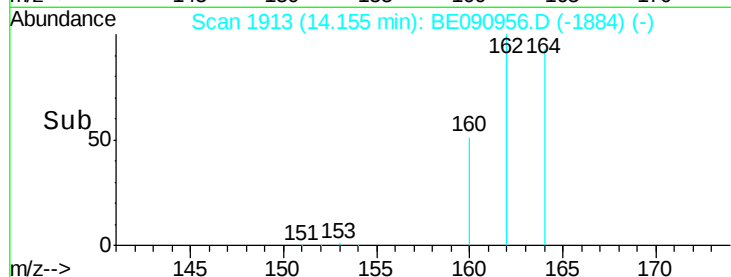
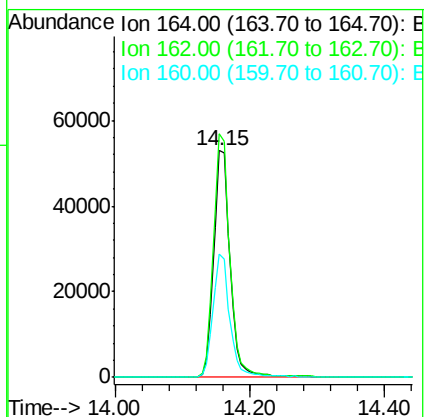
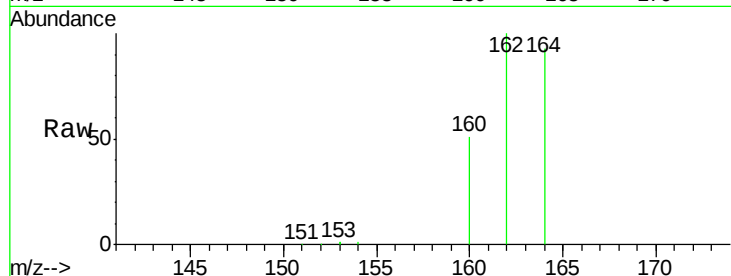
Tot Ion:164 Resp: 88955

Ion Ratio Lower Upper

164 100

162 107.3 86.8 130.2

160 54.6 53.9 80.9



#14

2,4,6-Tribromophenol

Concen: 8.69 ng

RT: 15.67 min Scan# 2049

Delta R.T. -0.02 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

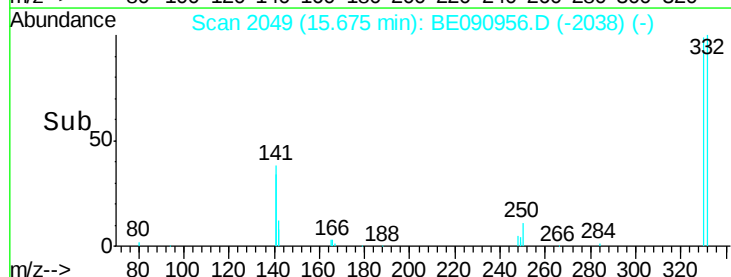
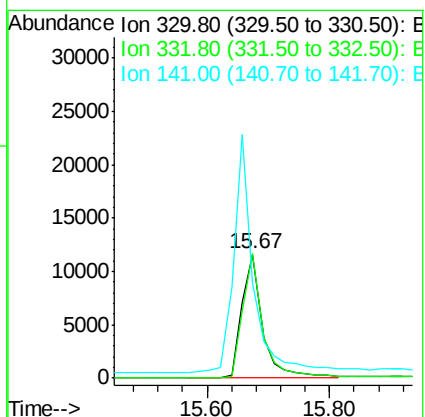
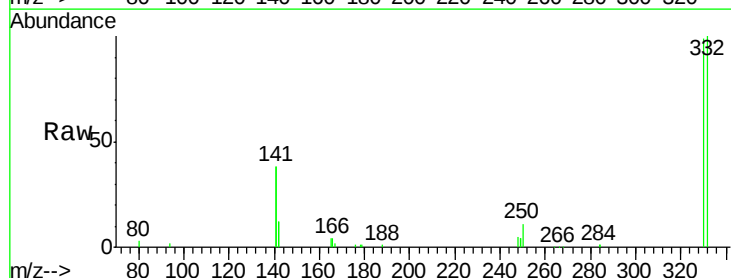
Tgt Ion:330 Resp: 27294

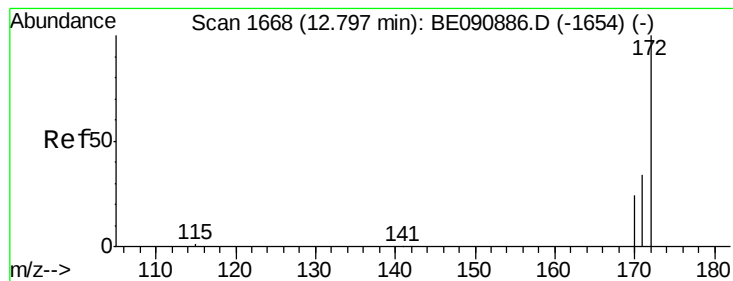
Ion Ratio Lower Upper

330 100

332 97.0 74.9 112.3

141 182.5 145.2 217.8





#15

2-Fluorobiphenyl

Concen: 3.83 ng

RT: 12.78 min Scan# 1664

Delta R.T. -0.02 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

Instrument :

BNA\_E

ClientSampleId :

CPS043034

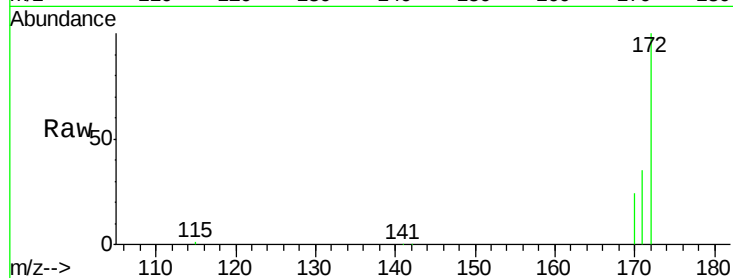
Tot Ion:172 Resp: 96694

Ion Ratio Lower Upper

172 100

171 35.3 27.8 41.8

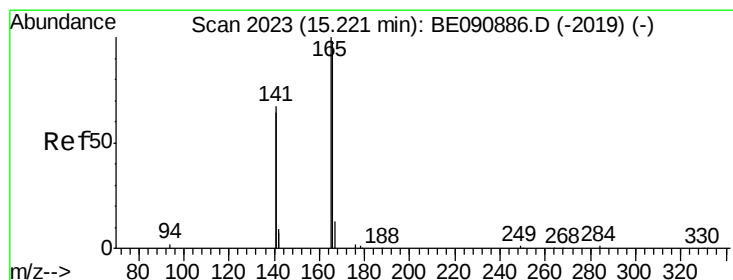
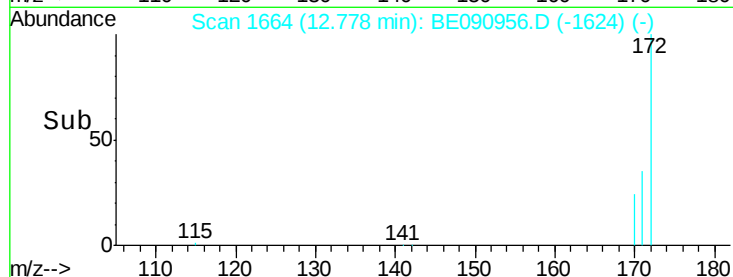
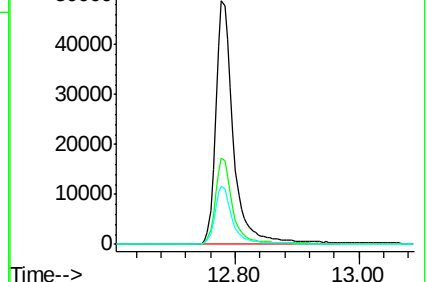
170 23.7 19.8 29.6



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



#18

Fluorene

Concen: Below Cal

RT: 15.22 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

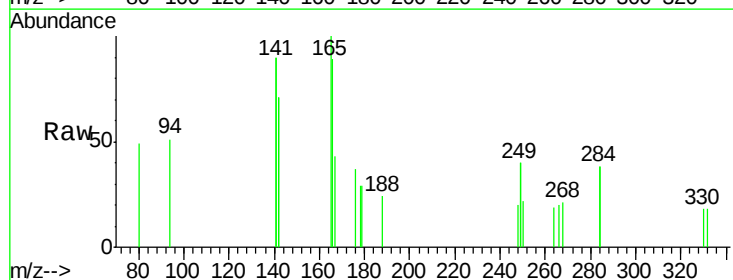
Tgt Ion:166 Resp: 406

Ion Ratio Lower Upper

166 100

165 126.8 82.7 124.1#

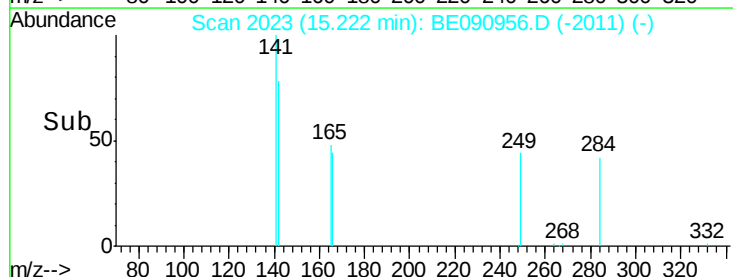
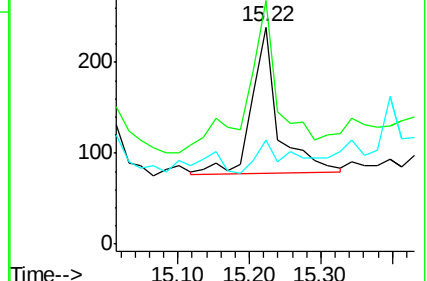
167 31.0 10.7 16.1#

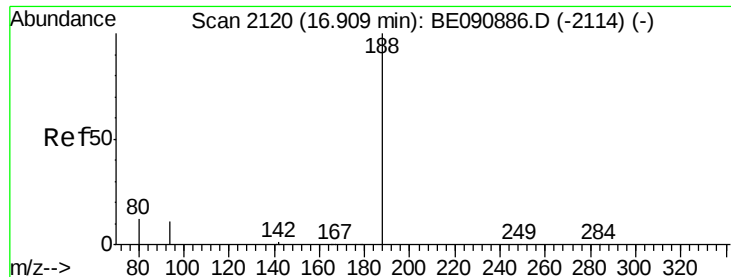


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.91 min Scan# 2120

Delta R.T. 0.00 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

Instrument :

BNA\_E

ClientSampled :

CPS043034

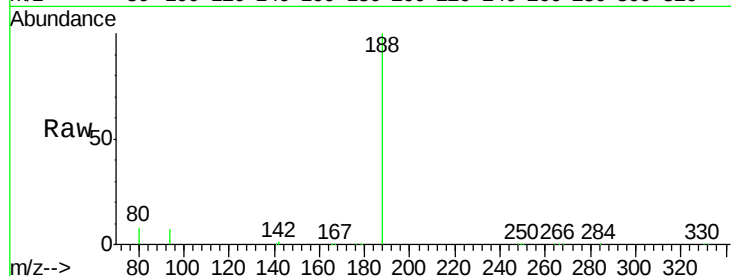
Tot Ion:188 Resp: 197159

Ion Ratio Lower Upper

188 100

94 7.1 10.3 15.5#

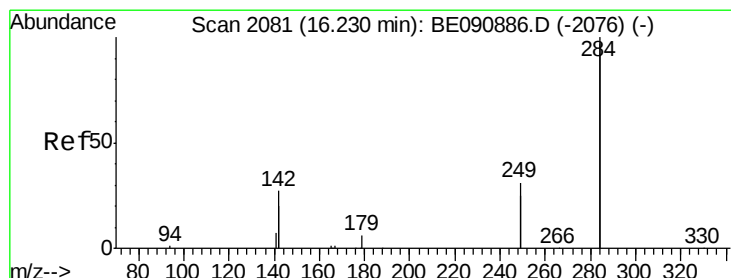
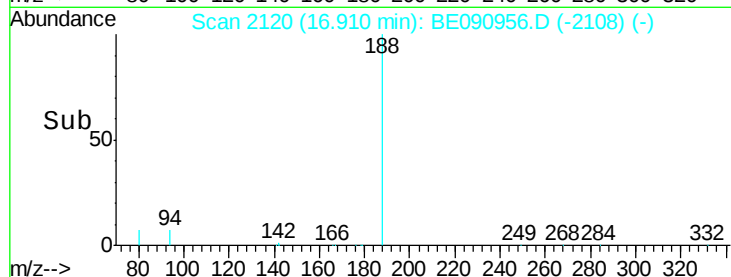
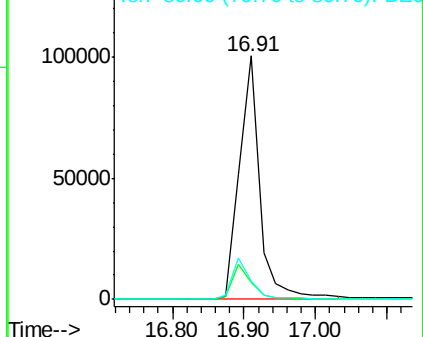
80 7.6 11.0 16.6#



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



#21

Hexachlorobenzene

Concen: Below Cal

RT: 16.23 min Scan# 2081

Delta R.T. 0.00 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

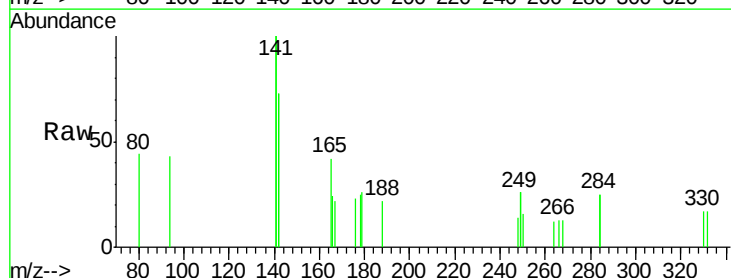
Tgt Ion:284 Resp: 31

Ion Ratio Lower Upper

284 100

142 158.1 35.0 52.4#

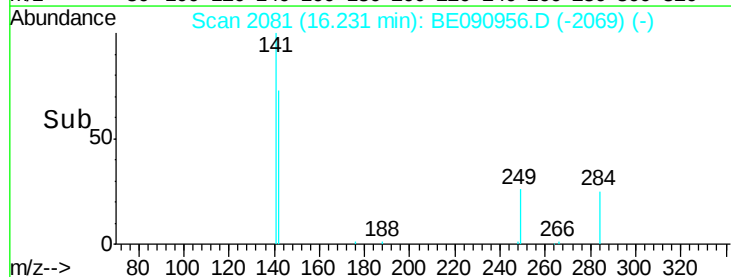
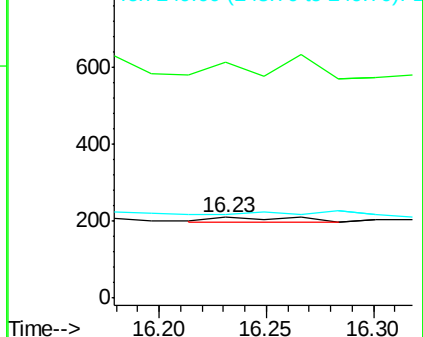
249 0.0 25.5 38.3#

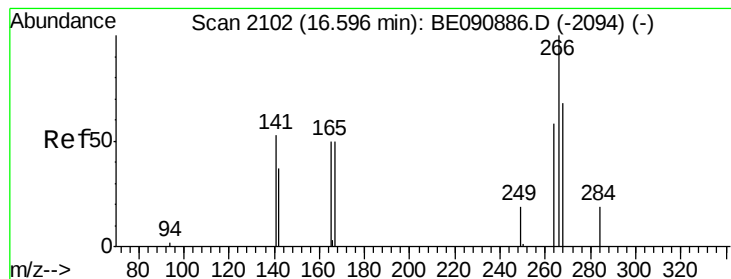


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#22

Pentachlorophenol

Concen: 0.20 ng

RT: 16.63 min Scan# 2104

Delta R.T. 0.04 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

Instrument :

BNA\_E

ClientSampleId :

CPS043034

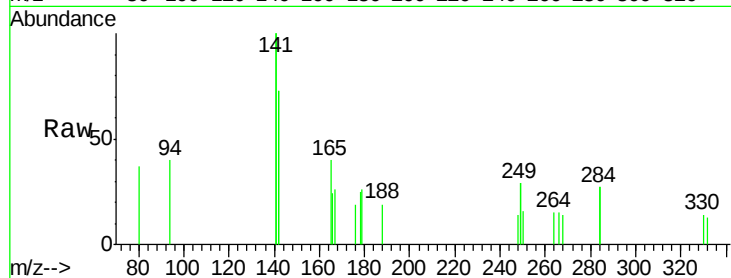
Tot Ion:266 Resp: 70

Ion Ratio Lower Upper

266 100

268 94.9 49.6 74.4#

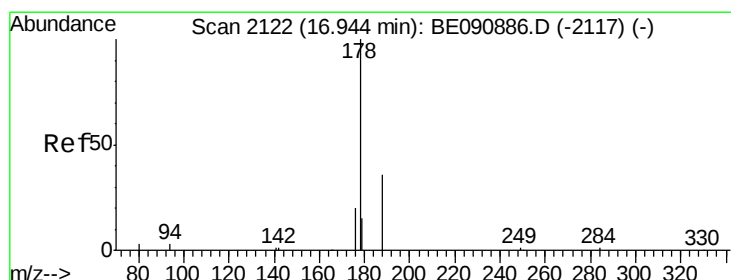
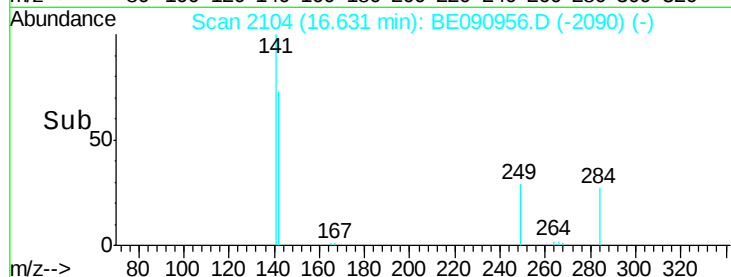
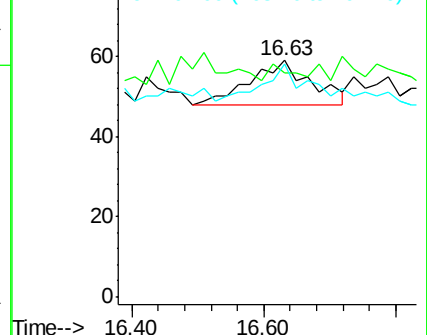
264 98.3 53.9 80.9#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#23

Phenanthrene

Concen: Below Cal

RT: 16.94 min Scan# 2122

Delta R.T. 0.00 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

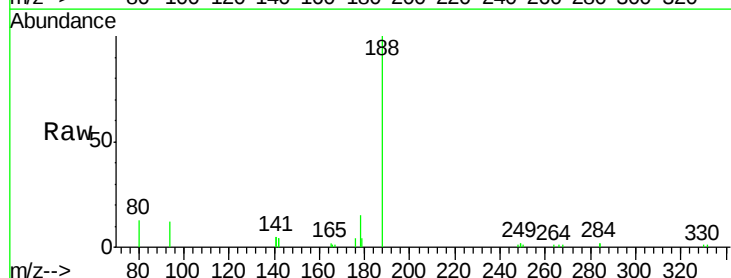
Tgt Ion:178 Resp: 1881

Ion Ratio Lower Upper

178 100

176 20.4 15.6 23.4

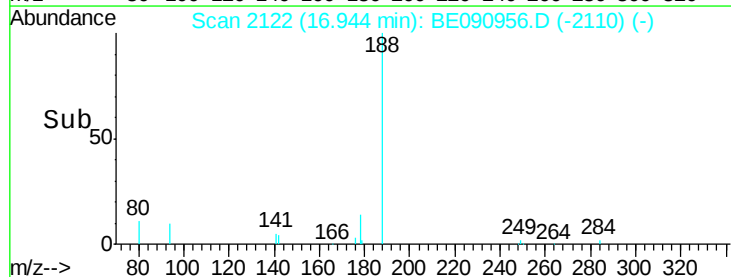
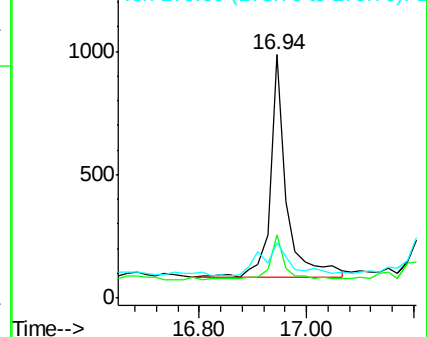
179 27.8 12.8 19.2#

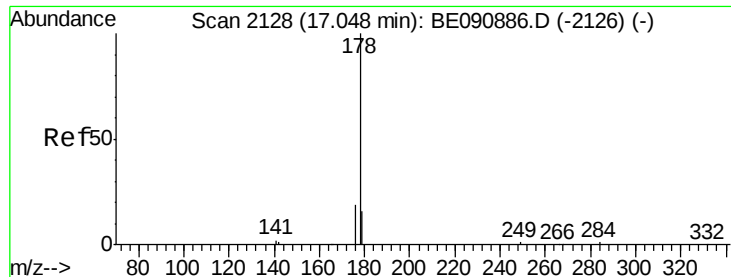


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.04 ng

RT: 16.94 min Scan# 2122

Delta R.T. -0.10 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

Instrument :

BNA\_E

ClientSampleId :

CPS043034

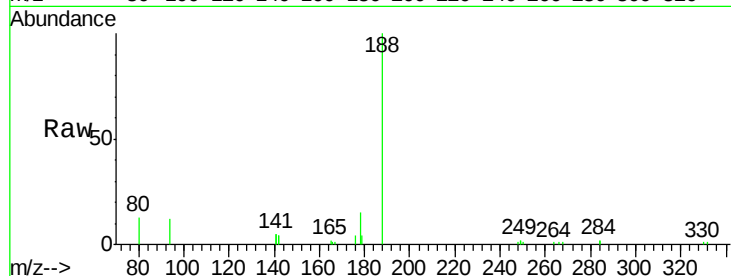
Tot Ion:178 Resp: 1950

Ion Ratio Lower Upper

178 100

176 16.7 15.0 22.6

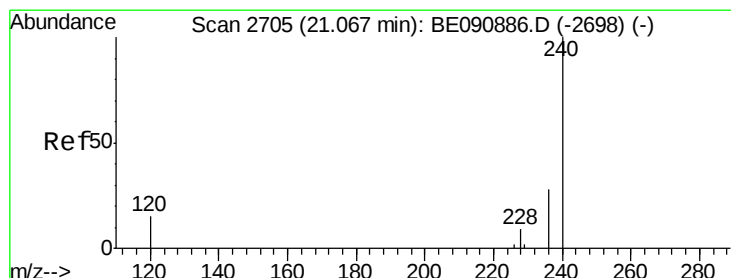
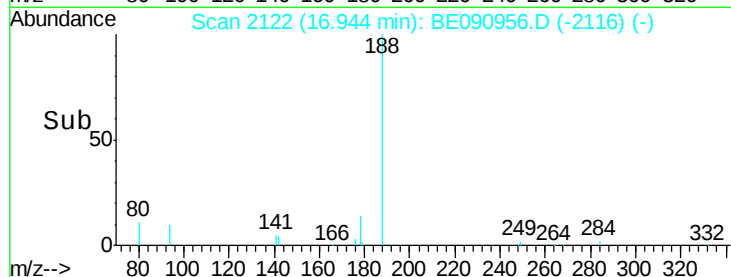
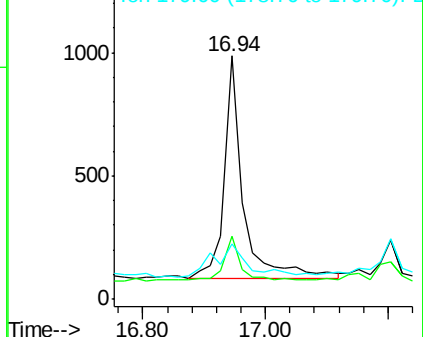
179 24.7 12.3 18.5#



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



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.07 min Scan# 2704

Delta R.T. -0.00 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

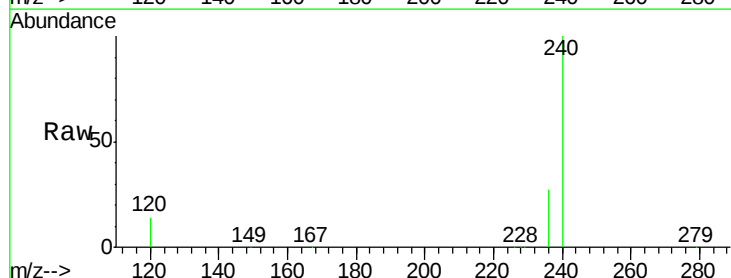
Tgt Ion:240 Resp: 230900

Ion Ratio Lower Upper

240 100

120 13.9 10.1 15.1

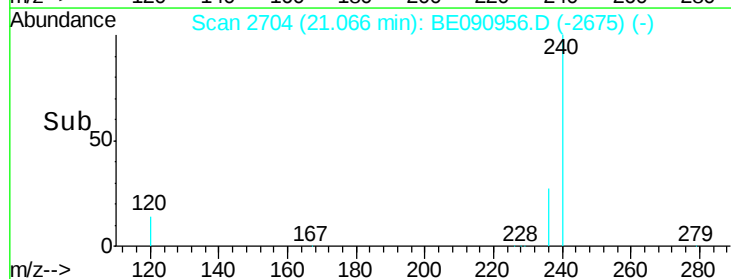
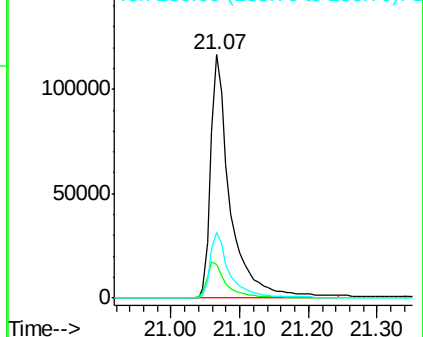
236 27.0 21.9 32.9

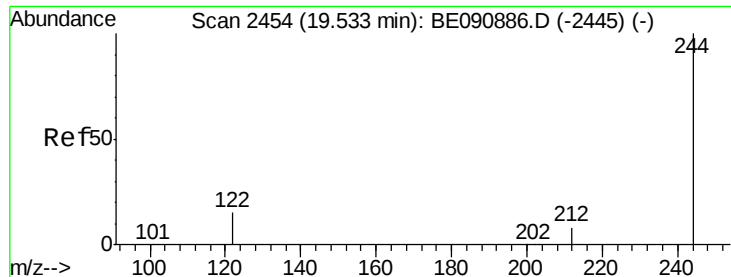


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Terphenyl-d14

Concen: 6.27 ng

RT: 19.52 min Scan# 2452

Delta R.T. -0.01 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

Instrument :

BNA\_E

ClientSampleID :

CPS043034

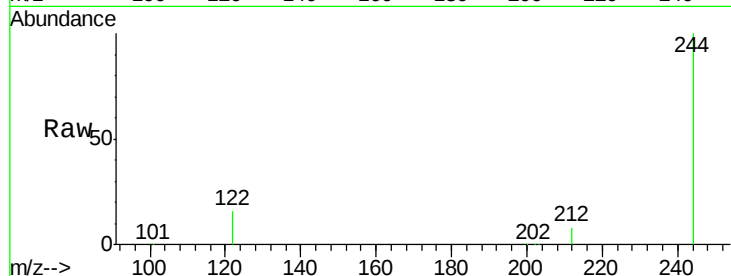
Tot Ion:244 Resp: 163392

Ion Ratio Lower Upper

244 100

212 8.2 6.9 10.3

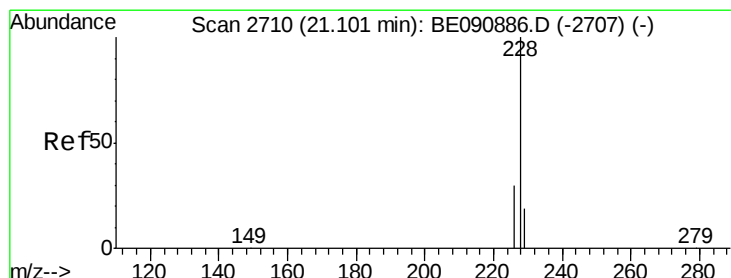
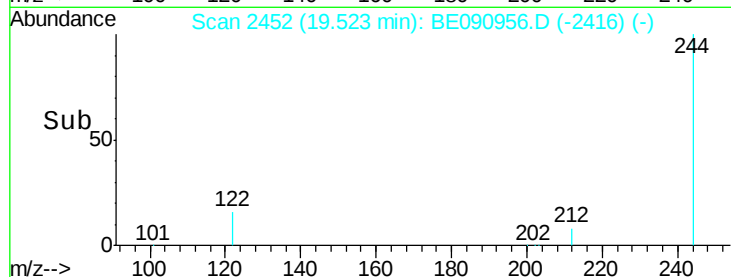
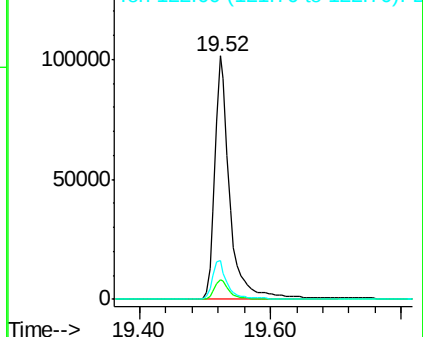
122 15.7 12.9 19.3



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Chrysene

Concen: Below Cal

RT: 21.10 min Scan# 2709

Delta R.T. 0.00 min

Lab File: BE090956.D

Acq: 23 Sep 2015 19:21

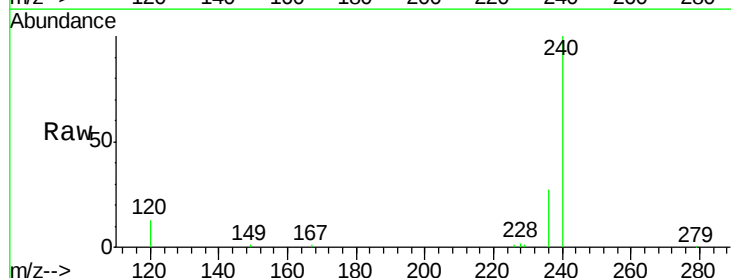
Tgt Ion:228 Resp: 890

Ion Ratio Lower Upper

228 100

226 38.3 24.2 36.4#

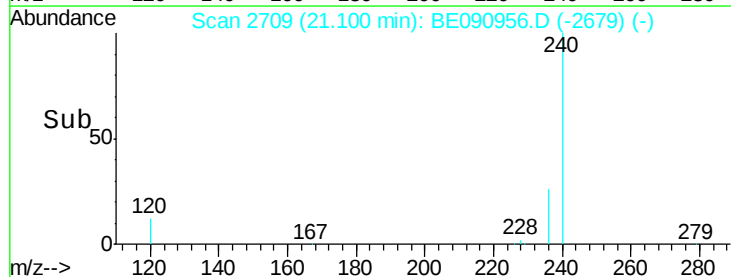
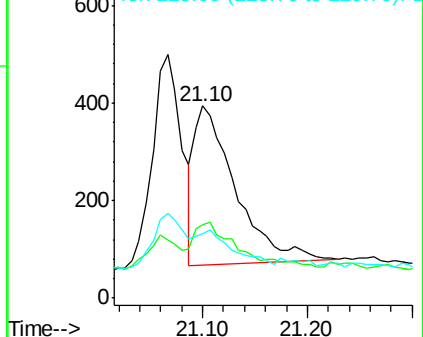
229 33.8 15.3 22.9#

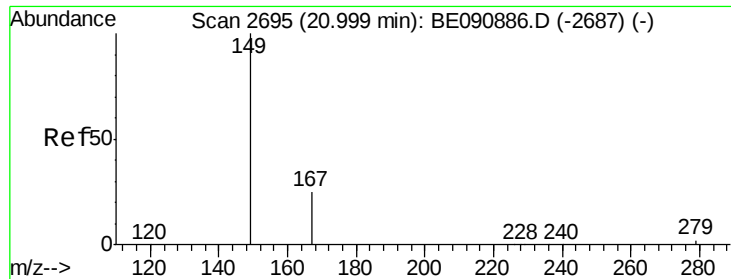


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

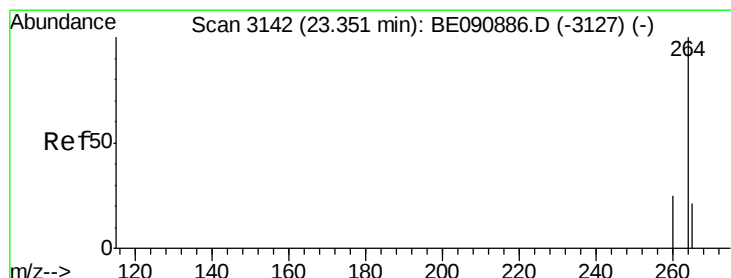
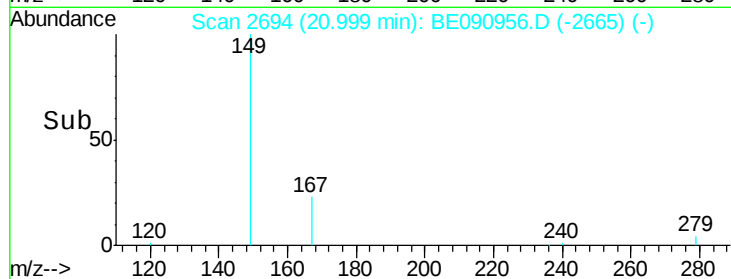
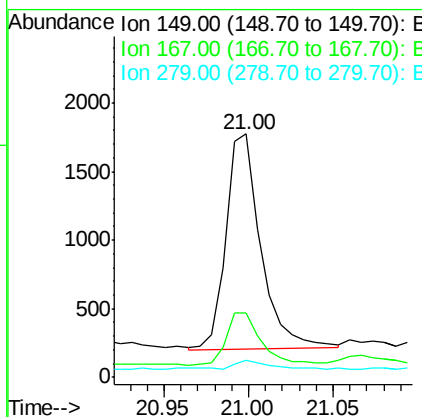
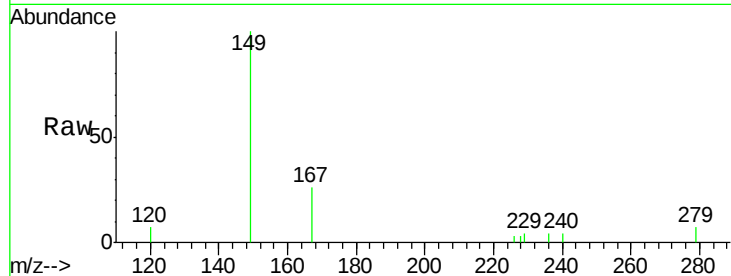




#31  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.25 ng  
 RT: 21.00 min Scan# 2694  
 Delta R.T. -0.00 min  
 Lab File: BE090956.D  
 Acq: 23 Sep 2015 19:21

Instrument :  
 BNA\_E  
 ClientSampleId :  
 CPS043034

Tot Ion:149 Resp: 2234  
 Ion Ratio Lower Upper  
 149 100  
 167 24.6 20.1 30.1  
 279 3.8 2.3 3.5#



#33  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 23.35 min Scan# 3141  
 Delta R.T. -0.00 min  
 Lab File: BE090956.D  
 Acq: 23 Sep 2015 19:21

Tgt Ion:264 Resp: 202605  
 Ion Ratio Lower Upper  
 264 100  
 260 25.4 19.7 29.5  
 265 21.6 17.5 26.3

