

Data Path : Z:\HPCHEM1\BNA\_E\Data\BE061616\  
 Data File : BE091938.D  
 Acq On : 16 Jun 2016 15:59  
 Operator : UM/SJ  
 Sample : H3357-04  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 KY038PS037-160531

Quant Time: Jun 16 17:37:06 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE061416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 15 12:00:38 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.20  | 152  | 25456    | 5.00 | ng    | 0.00     |
| 8) Naphthalene-d8         | 10.99 | 136  | 117818   | 5.00 | ng    | 0.00     |
| 15) Acenaphthene-d10      | 14.86 | 164  | 92637    | 5.00 | ng    | 0.00     |
| 24) Phenanthrene-d10      | 17.61 | 188  | 198903   | 5.00 | ng    | 0.00     |
| 31) Chrysene-d12          | 21.76 | 240  | 308042   | 5.00 | ng    | 0.00     |
| 40) Perylene-d12          | 24.16 | 264  | 221047   | 5.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.72  | 112  | 12565    | 2.53 | ng    | 0.00     |
| 5) Phenol-d6                | 7.35  | 99   | 10180    | 1.36 | ng    | 0.00     |
| 9) Nitrobenzene-d5          | 9.37  | 82   | 25473    | 3.13 | ng    | 0.00     |
| 16) 2,4,6-Tribromophenol    | 16.35 | 330  | 17529    | 7.28 | ng    | 0.00     |
| 17) 2-Fluorobiphenyl        | 13.49 | 172  | 78427    | 3.33 | ng    | 0.00     |
| 34) Terphenyl-d14           | 20.22 | 244  | 157300   | 4.17 | ng    | 0.00     |

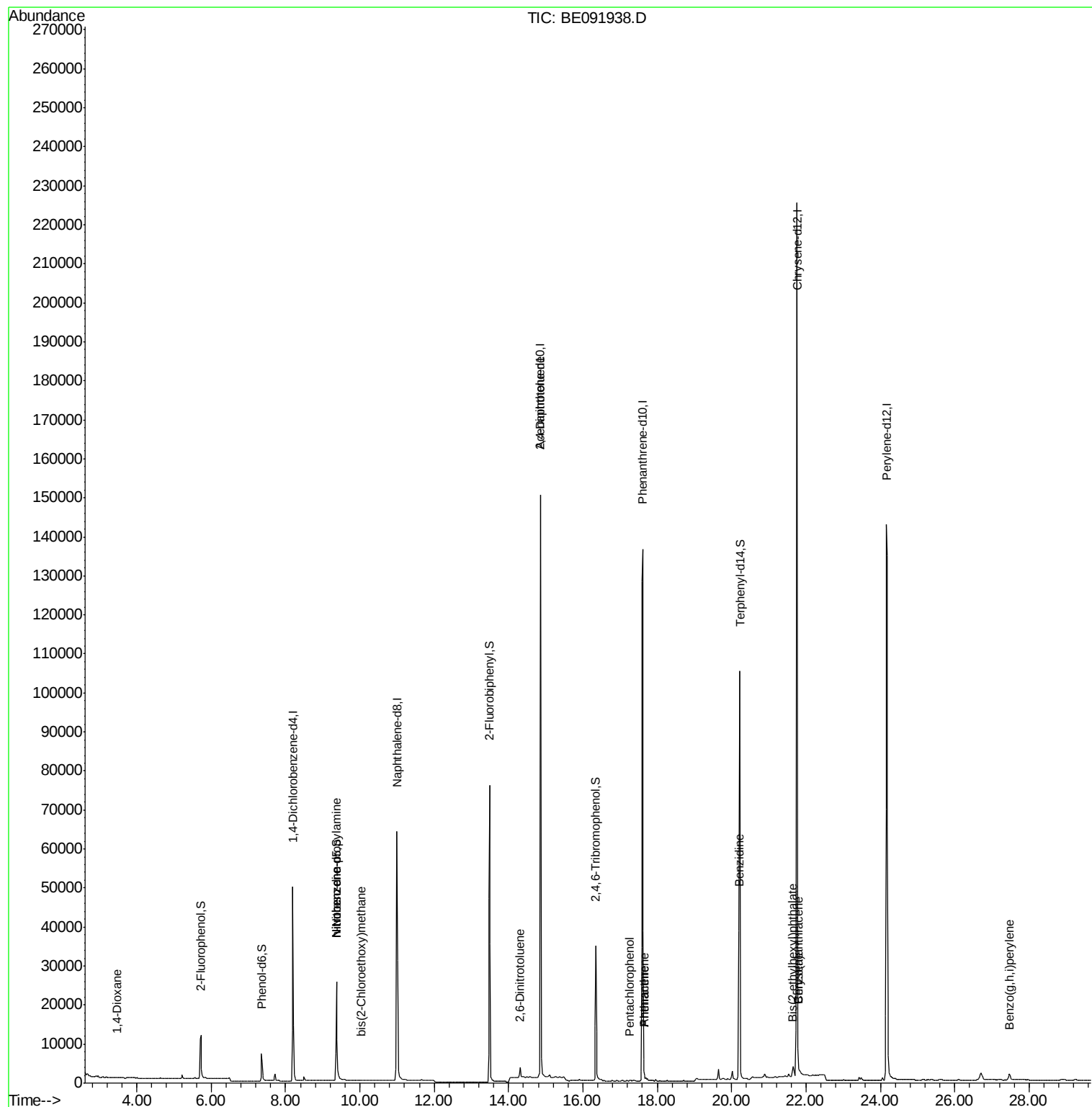
| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 2) 1,4-Dioxane                 | 3.47  | 88   | 172      | 0.05 | ng    | # 76   |
| 7) n-Nitroso-di-n-propylamine  | 9.37  | 70   | 3201     | 0.57 | ng    | # 88   |
| 10) Nitrobenzene               | 9.37  | 77   | 127      | 0.07 | ng    | # 47   |
| 11) bis(2-Chloroethoxy)methane | 10.05 | 93   | 329      | 0.03 | ng    | # 1    |
| 19) 2,6-Dinitrotoluene         | 14.31 | 165  | 2421     | 0.36 | ng    | # 10   |
| 21) 2,4-Dinitrotoluene         | 14.86 | 165  | 44927    | 2.49 | ng    | # 1    |
| 27) Pentachlorophenol          | 17.26 | 266  | 105      | 0.12 | ng    | # 84   |
| 28) Phenanthrene               | 17.64 | 178  | 1178     | 0.02 | ng    | 97     |
| 29) Anthracene                 | 17.64 | 178  | 1122     | 0.03 | ng    | 98     |
| 32) Benzdine                   | 20.20 | 184  | 3119     | 0.36 | ng    | # 91   |
| 35) Benzo(a)anthracene         | 21.79 | 228  | 3084     | 0.06 | ng    | # 86   |
| 37) Chrysene                   | 21.79 | 228  | 3122     | 0.04 | ng    | # 94   |
| 38) Bis(2-ethylhexyl)phthalate | 21.64 | 149  | 6873     | 0.15 | ng    | # 100  |
| 45) Benzo(g,h,i)perylene       | 27.47 | 276  | 4118     | 0.02 | ng    | # 71   |

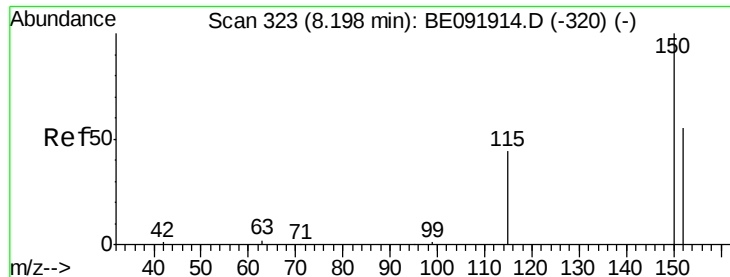
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_E\Data\BE061616\  
Data File : BE091938.D  
Acq On : 16 Jun 2016 15:59  
Operator : UM/SJ  
Sample : H3357-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
KY038PS037-160531

Quant Time: Jun 16 17:37:06 2016  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE061416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 15 12:00:38 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.20 min Scan# 323

Delta R.T. -0.00 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Instrument :

BNA\_F

ClientSampleId :

KY038PS037-160531

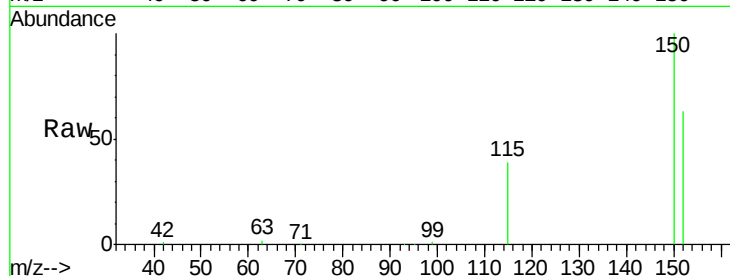
Tgt Ion:152 Resp: 25456

Ion Ratio Lower Upper

152 100

150 158.0 123.9 185.9

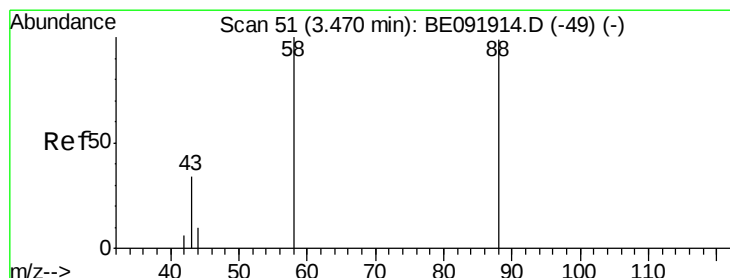
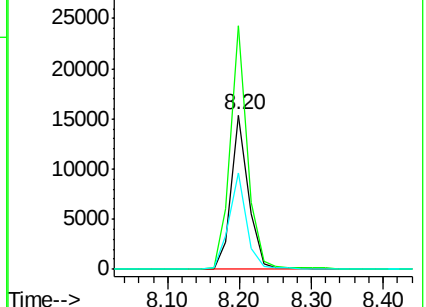
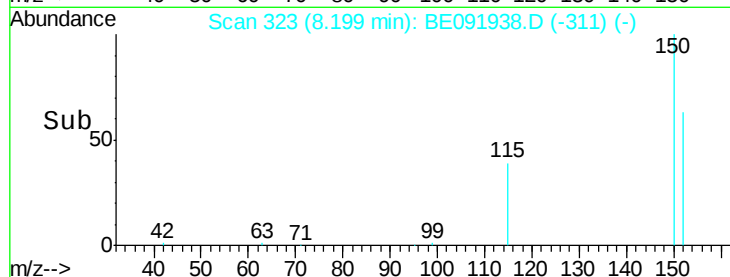
115 62.3 48.3 72.5



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: 0.05 ng

RT: 3.47 min Scan# 51

Delta R.T. 0.00 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

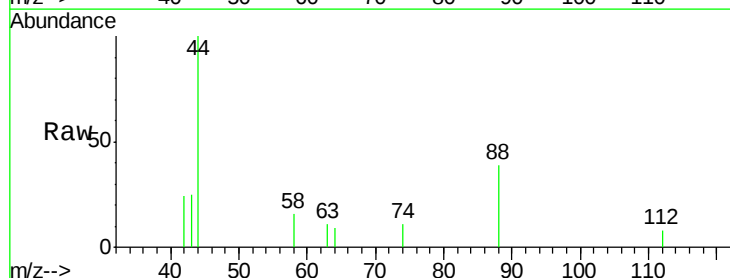
Tgt Ion: 88 Resp: 172

Ion Ratio Lower Upper

88 100

58 53.5 63.0 94.4#

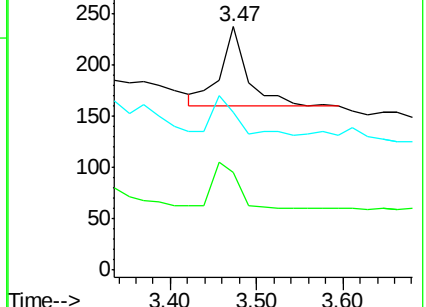
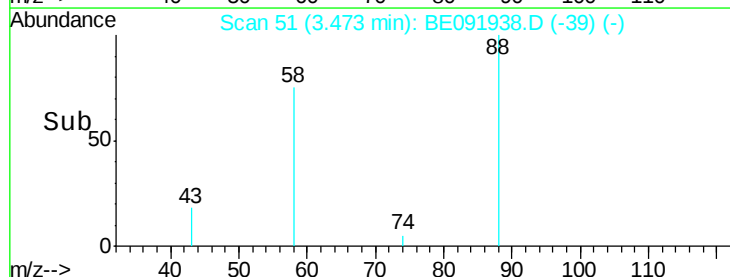
43 43.6 29.1 43.7

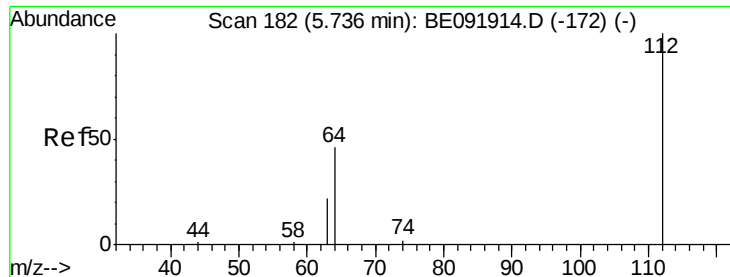


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 2.53 ng

RT: 5.72 min Scan# 181

Delta R.T. 0.00 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Instrument :

BNA\_F

ClientSampleId :

KY038PS037-160531

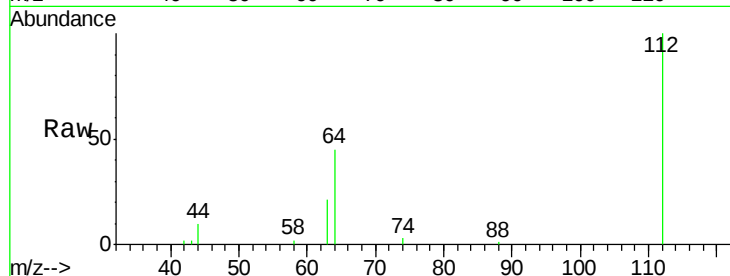
Tgt Ion: 112 Resp: 12565

Ion Ratio Lower Upper

112 100

64 67.9 53.7 80.5

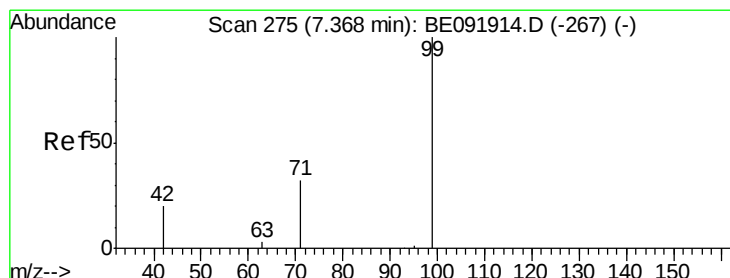
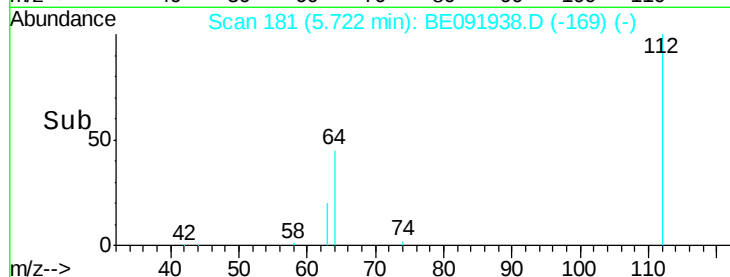
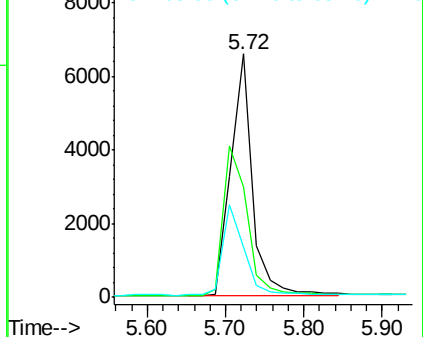
63 36.9 29.5 44.3



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: 1.36 ng

RT: 7.35 min Scan# 274

Delta R.T. -0.00 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

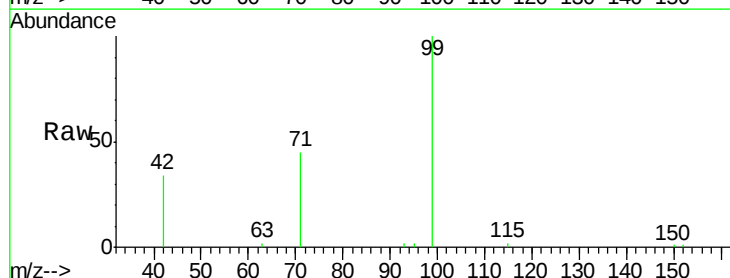
Tgt Ion: 99 Resp: 10180

Ion Ratio Lower Upper

99 100

42 24.9 19.6 29.4

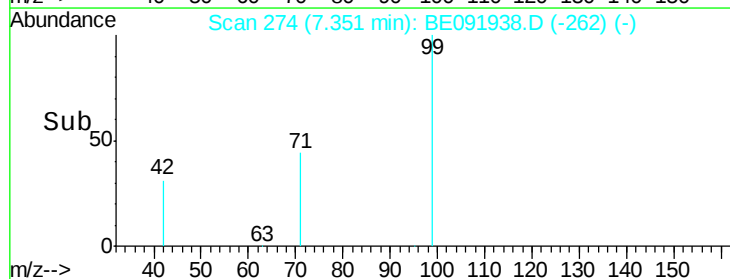
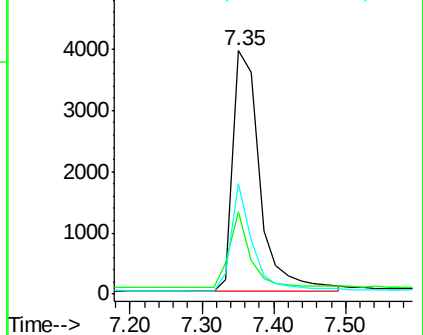
71 35.5 28.1 42.1

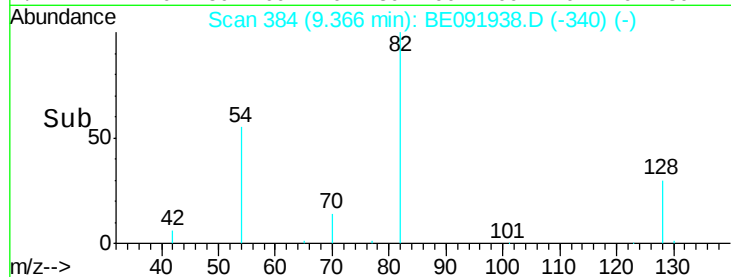
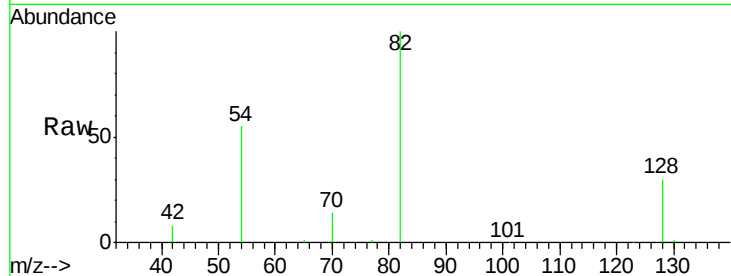
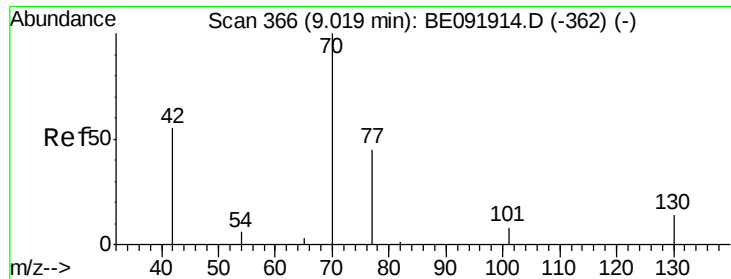


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

n-Nitroso-di-n-propylamine

Concen: 0.57 ng

RT: 9.37 min Scan# 384

Delta R.T. 0.37 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Instrument :

BNA\_F

ClientSampleId :

KY038PS037-160531

Tgt Ion: 70 Resp: 3201

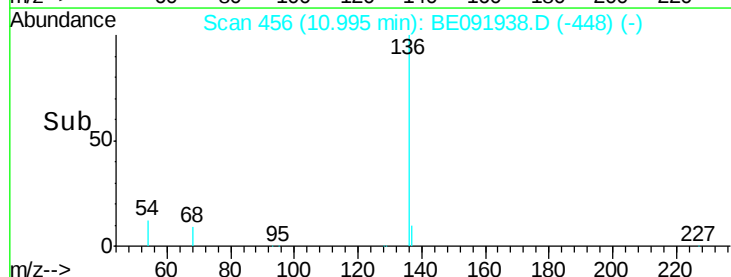
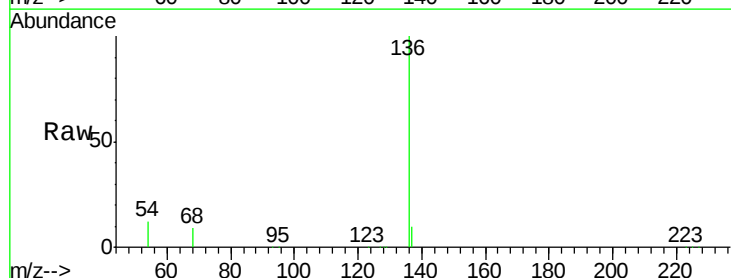
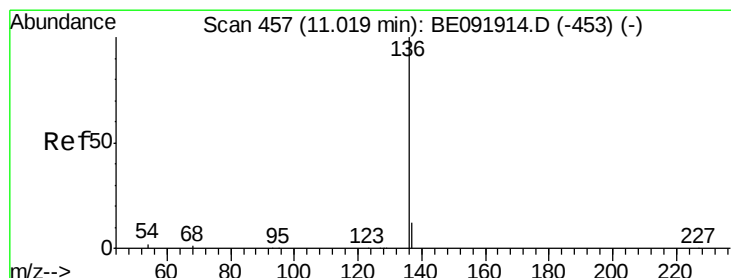
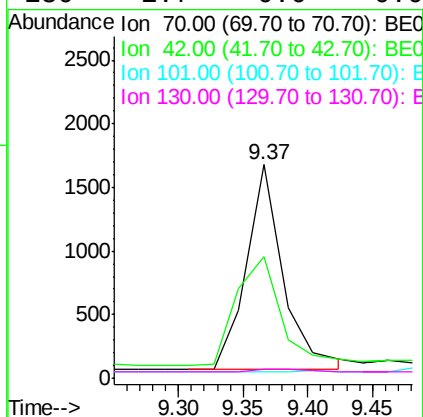
Ion Ratio Lower Upper

70 100

42 64.3 58.4 87.6

101 0.0 6.4 9.6#

130 1.7 0.0 0.0#



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.99 min Scan# 456

Delta R.T. 0.00 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Tgt Ion: 136 Resp: 117818

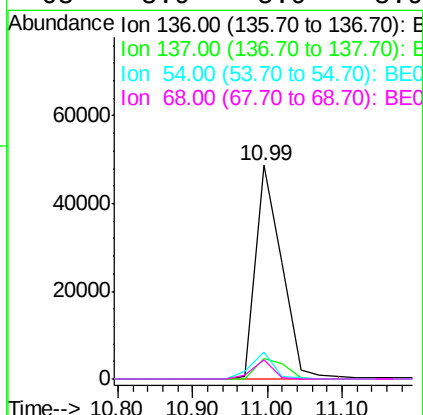
Ion Ratio Lower Upper

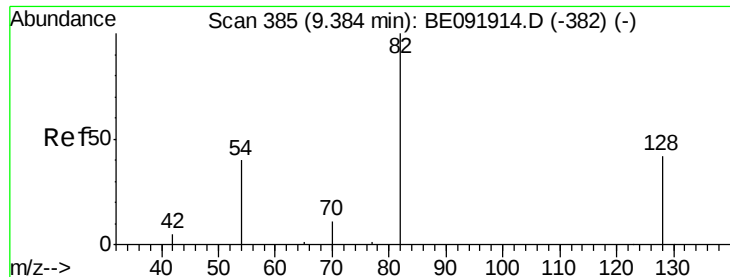
136 100

137 9.9 8.3 12.5

54 12.4 8.2 12.4#

68 8.9 5.9 8.9#





#9

Nitrobenzene-d5

Concen: 3.13 ng

RT: 9.37 min Scan# 384

Delta R.T. -0.00 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Instrument :

BNA\_F

ClientSampleId :

KY038PS037-160531

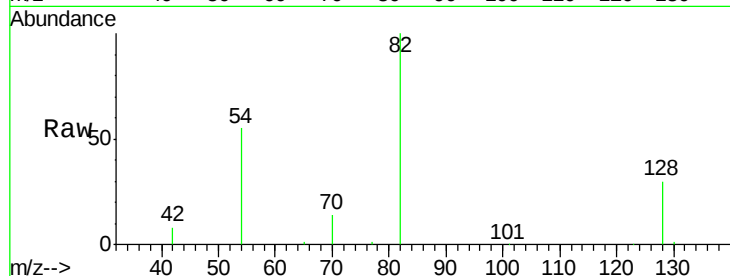
Tgt Ion: 82 Resp: 25473

Ion Ratio Lower Upper

82 100

128 30.1 39.5 59.3#

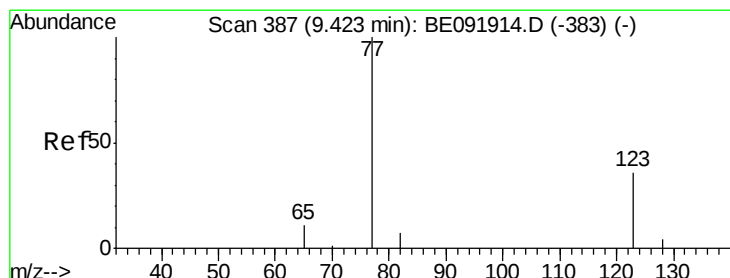
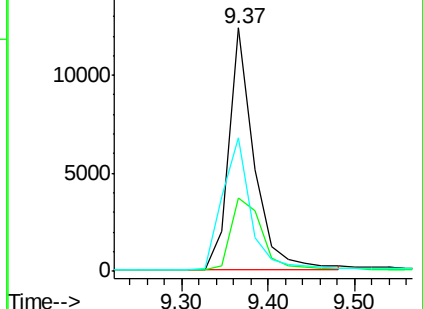
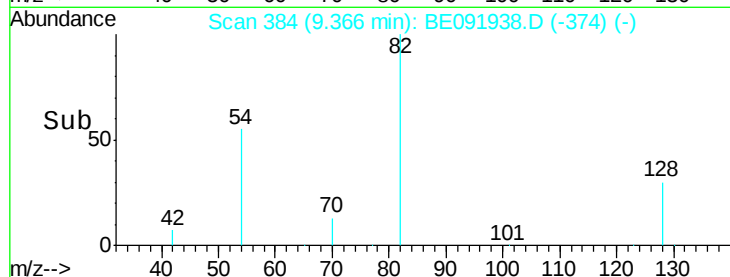
54 54.9 30.3 45.5#



Abundance Ion 82.00 (81.70 to 82.70): BE091914.D (-382) (-)

Ion 128.00 (127.70 to 128.70): BE091914.D (-382) (-)

Ion 54.00 (53.70 to 54.70): BE091914.D (-382) (-)



#10

Nitrobenzene

Concen: 0.07 ng

RT: 9.37 min Scan# 384

Delta R.T. -0.04 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

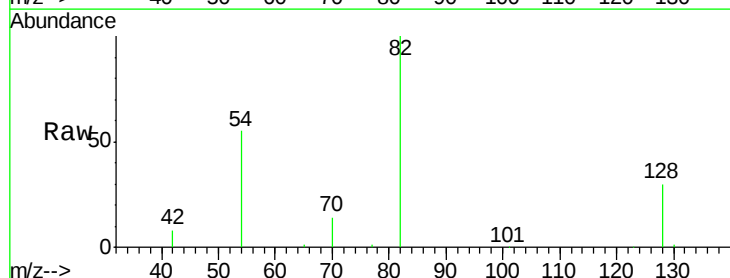
Tgt Ion: 77 Resp: 127

Ion Ratio Lower Upper

77 100

123 0.0 0.0 0.0

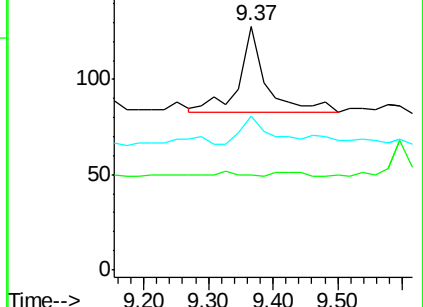
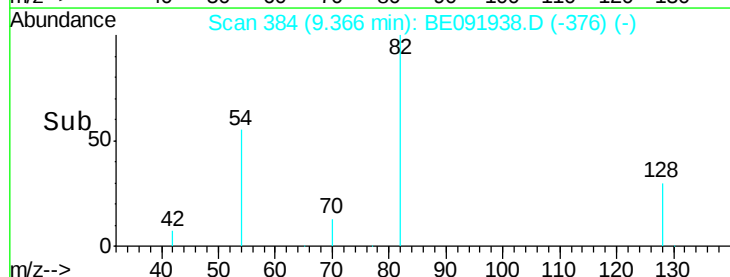
65 35.4 11.1 16.7#

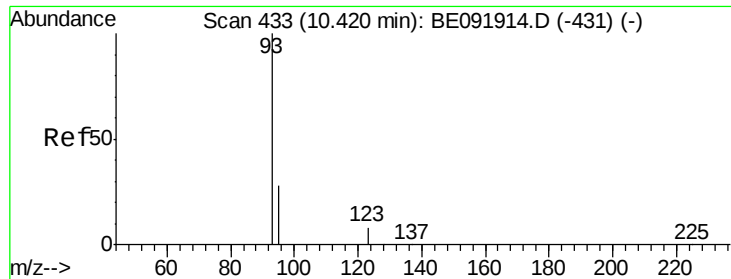


Abundance Ion 77.00 (76.70 to 77.70): BE091914.D (-383) (-)

Ion 123.00 (122.70 to 123.70): BE091914.D (-383) (-)

Ion 65.00 (64.70 to 65.70): BE091914.D (-383) (-)

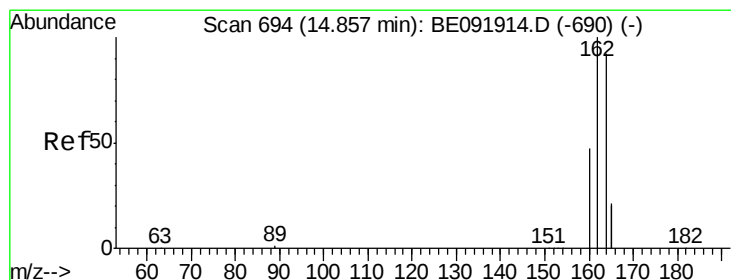
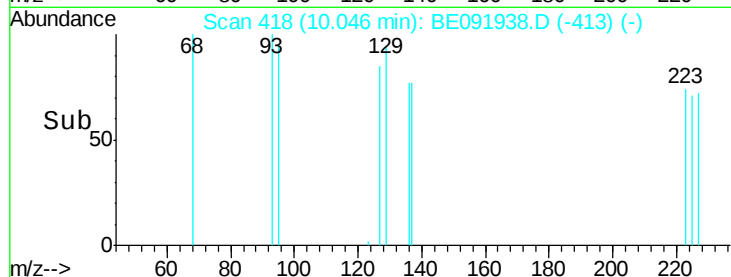
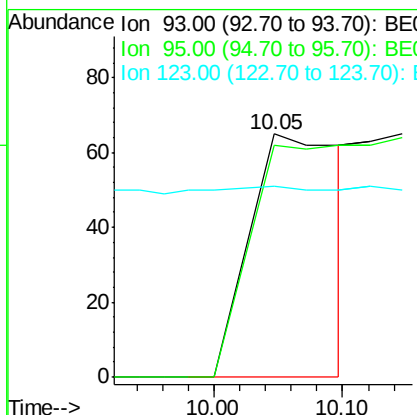
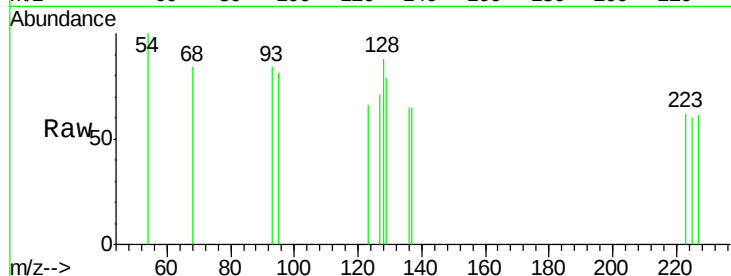




#11  
bis(2-Chloroethoxy)methane  
Concen: 0.03 ng  
RT: 10.05 min Scan# 418  
Delta R.T. -0.37 min  
Lab File: BE091938.D  
Acq: 16 Jun 2016 15:59

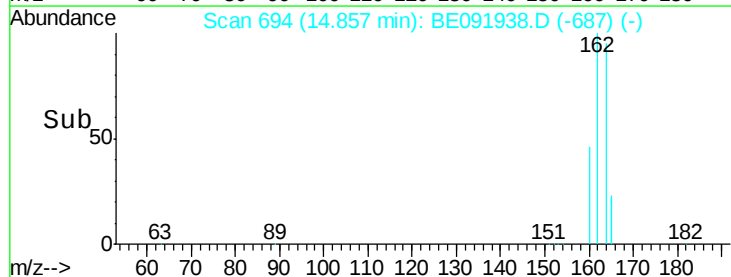
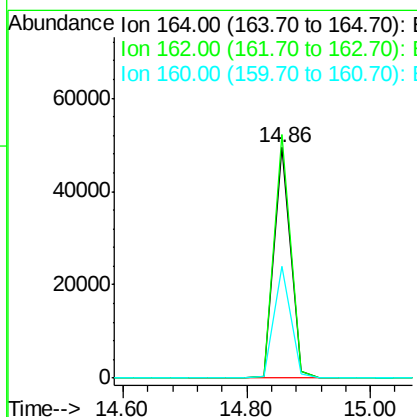
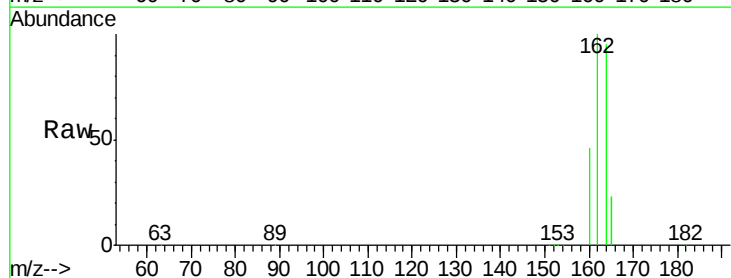
Instrument :  
BNA\_F  
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KY038PS037-160531

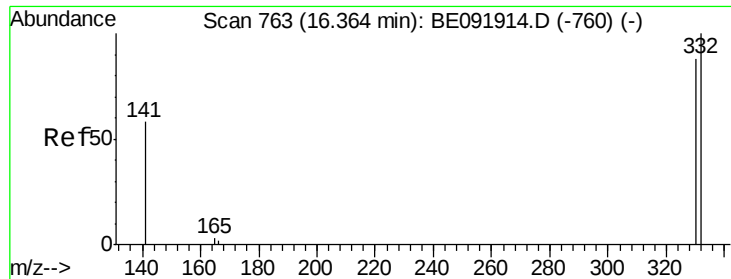
Tgt Ion: 93 Resp: 329  
Ion Ratio Lower Upper  
93 100  
95 0.0 57.6 86.4#  
123 3.0 100.2 150.4#



#15  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.86 min Scan# 694  
Delta R.T. -0.00 min  
Lab File: BE091938.D  
Acq: 16 Jun 2016 15:59

Tgt Ion: 164 Resp: 92637  
Ion Ratio Lower Upper  
164 100  
162 105.8 71.8 107.8  
160 48.5 28.0 42.0#

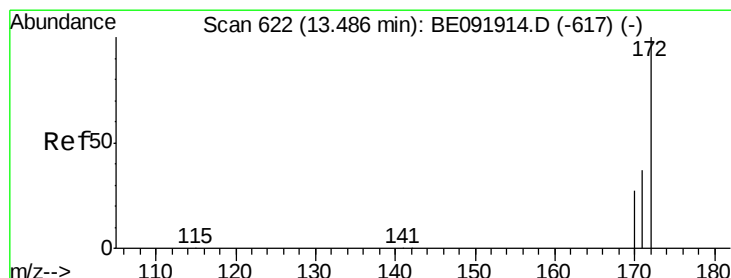
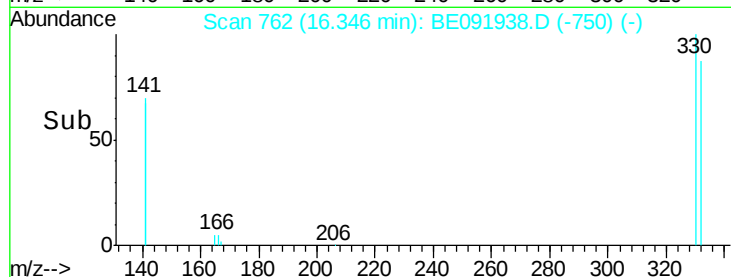
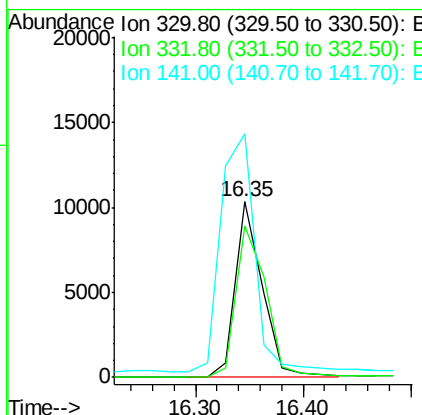
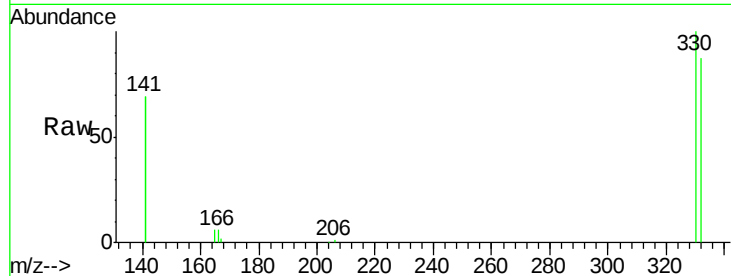




#16  
 2,4,6-Tribromophenol  
 Concen: 7.28 ng  
 RT: 16.35 min Scan# 762  
 Delta R.T. -0.00 min  
 Lab File: BE091938.D  
 Acq: 16 Jun 2016 15:59

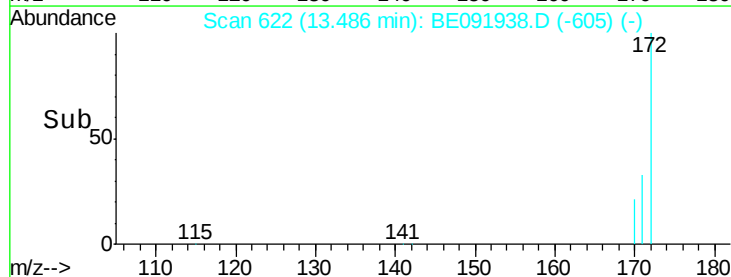
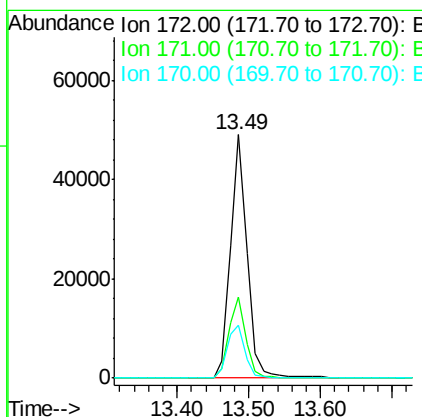
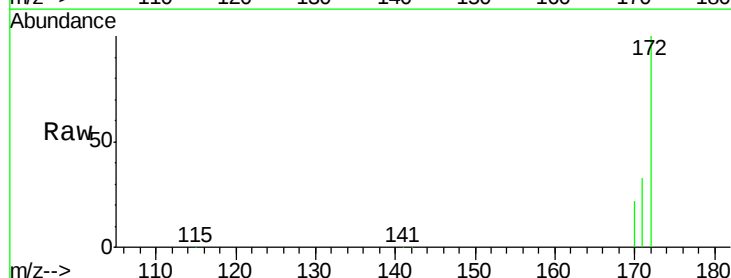
Instrument :  
 BNA\_F  
 ClientSampleId :  
 KY038PS037-160531

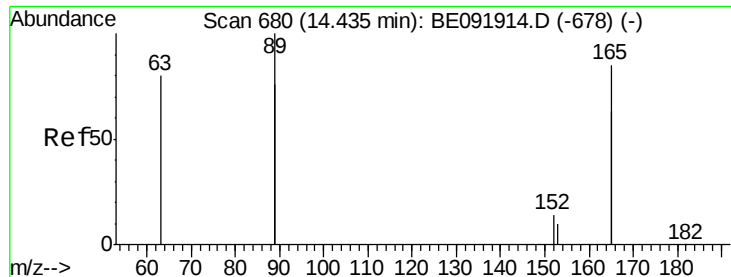
Tgt Ion:330 Resp: 17529  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 77.0 115.6  
 141 173.7 138.4 207.6



#17  
 2-Fluorobiphenyl  
 Concen: 3.33 ng  
 RT: 13.49 min Scan# 622  
 Delta R.T. 0.00 min  
 Lab File: BE091938.D  
 Acq: 16 Jun 2016 15:59

Tgt Ion:172 Resp: 78427  
 Ion Ratio Lower Upper  
 172 100  
 171 33.4 24.3 36.5  
 170 21.5 14.9 22.3





#19

2,6-Dinitrotoluene

Concen: 0.36 ng

RT: 14.31 min Scan# 676

Delta R.T. -0.12 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Instrument :

BNA\_F

ClientSampleId :

KY038PS037-160531

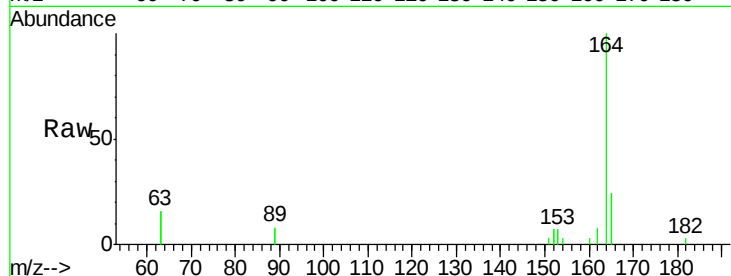
Tgt Ion:165 Resp: 2421

Ion Ratio Lower Upper

165 100

63 0.0 65.9 98.9#

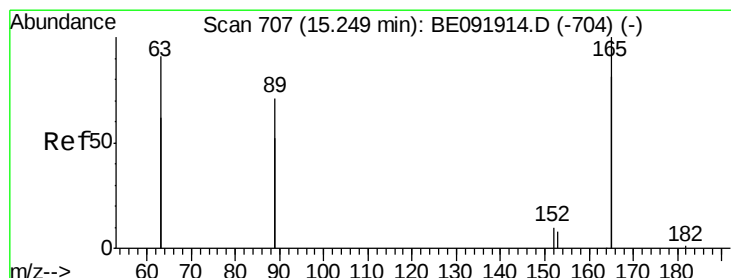
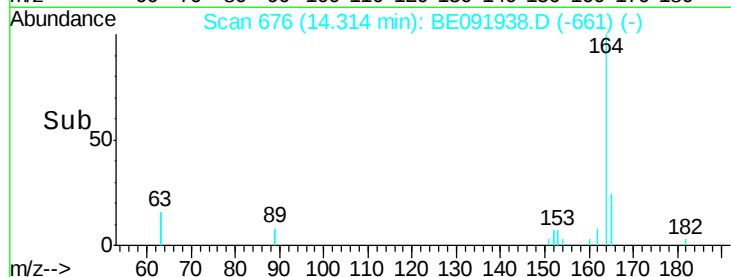
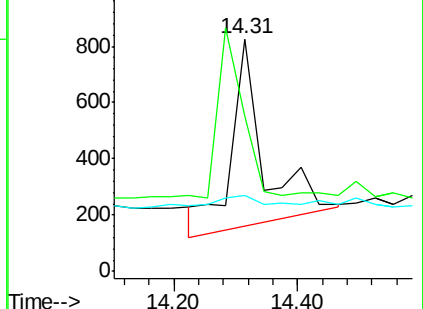
89 0.0 59.1 88.7#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BE0

Ion 89.00 (88.70 to 89.70): BE0



#21

2,4-Dinitrotoluene

Concen: 2.49 ng

RT: 14.86 min Scan# 694

Delta R.T. -0.36 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Tgt Ion:165 Resp: 44927

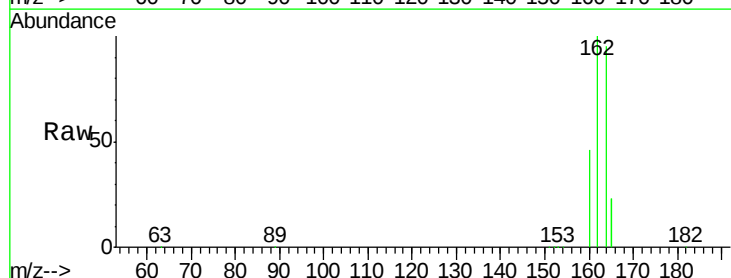
Ion Ratio Lower Upper

165 100

63 1.4 0.0 0.0#

89 1.6 99.8 149.8#

182 0.0 0.0 0.0

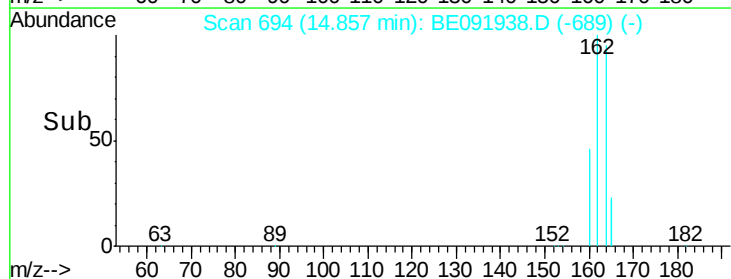
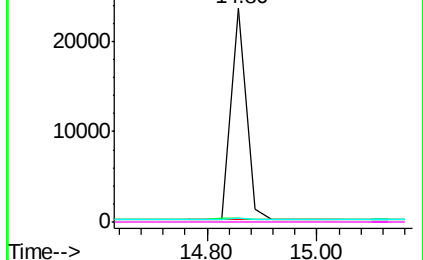


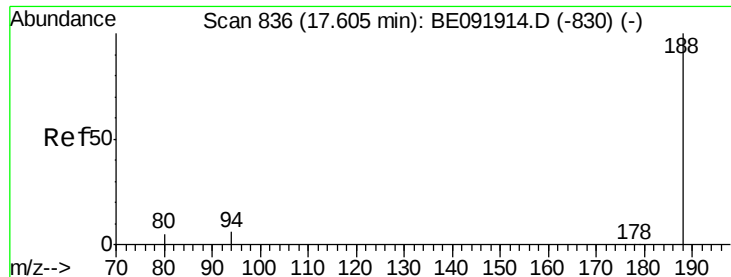
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BE0

Ion 89.00 (88.70 to 89.70): BE0

Ion 182.00 (181.70 to 182.70): E





#24

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.61 min Scan# 836

Delta R.T. -0.00 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Instrument :

BNA\_F

ClientSampleId :

KY038PS037-160531

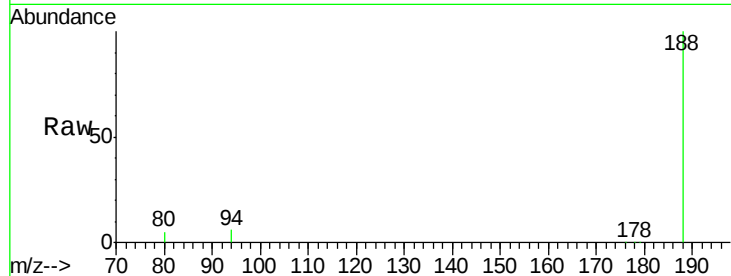
Tgt Ion:188 Resp: 198903

Ion Ratio Lower Upper

188 100

94 5.5 4.1 6.1

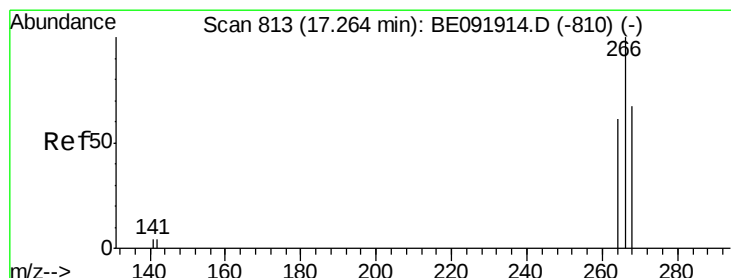
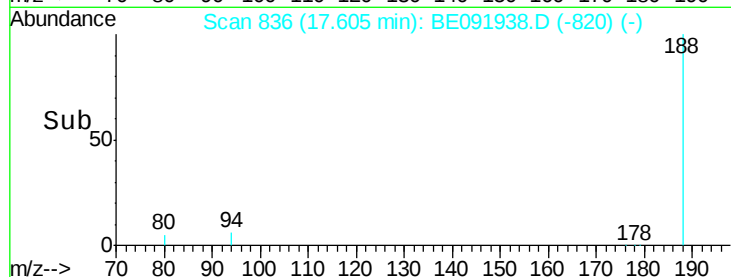
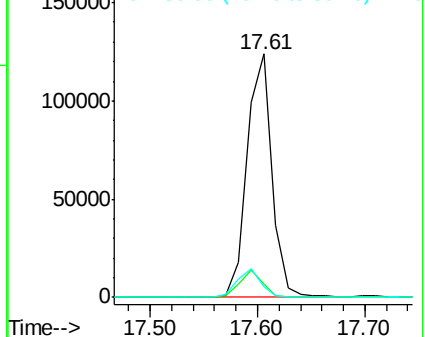
80 4.6 3.4 5.2



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



#27

Pentachlorophenol

Concen: 0.12 ng

RT: 17.26 min Scan# 813

Delta R.T. 0.02 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

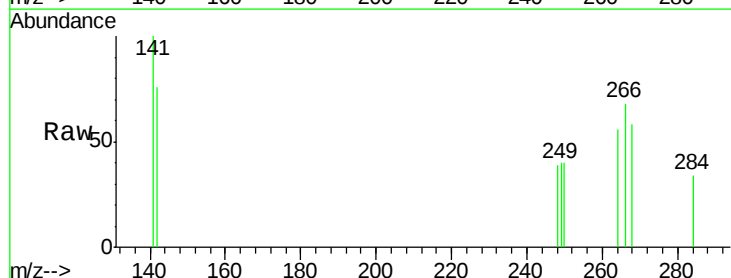
Tgt Ion:266 Resp: 105

Ion Ratio Lower Upper

266 100

268 84.2 60.5 90.7

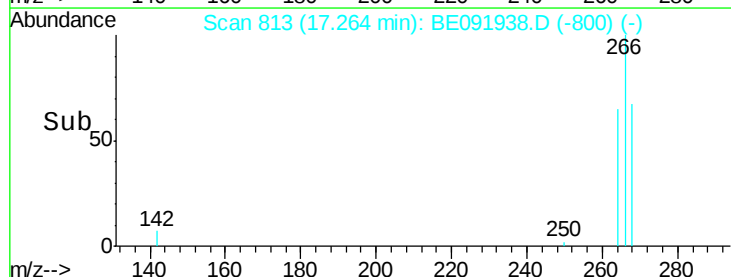
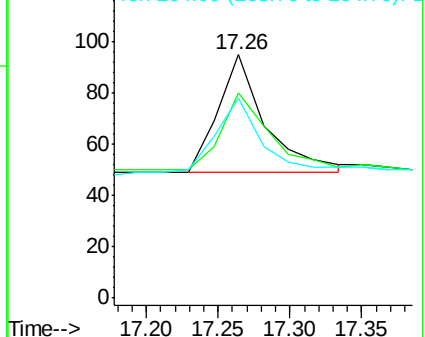
264 82.1 51.0 76.4#

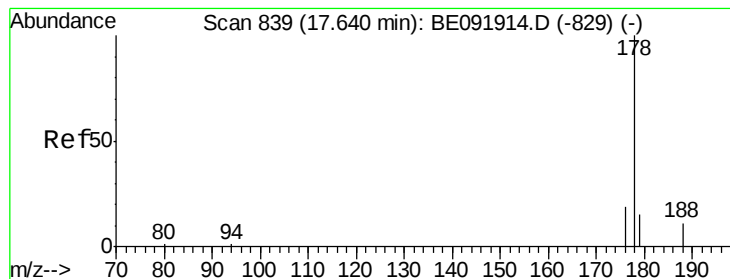


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#28

Phenanthrene

Concen: 0.02 ng

RT: 17.64 min Scan# 839

Delta R.T. -0.00 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Instrument :

BNA\_F

ClientSampleId :

KY038PS037-160531

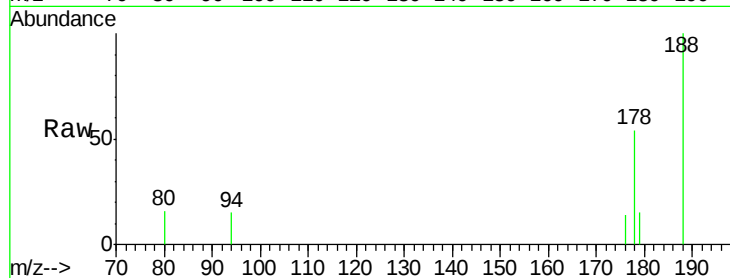
Tgt Ion:178 Resp: 1178

Ion Ratio Lower Upper

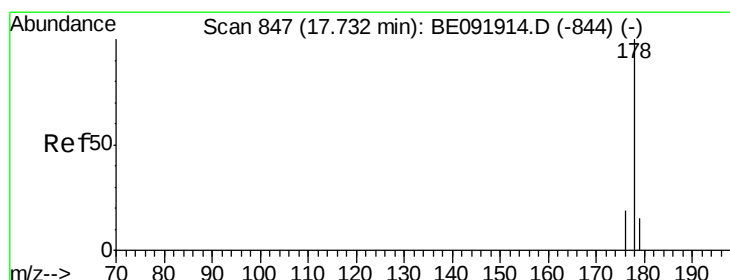
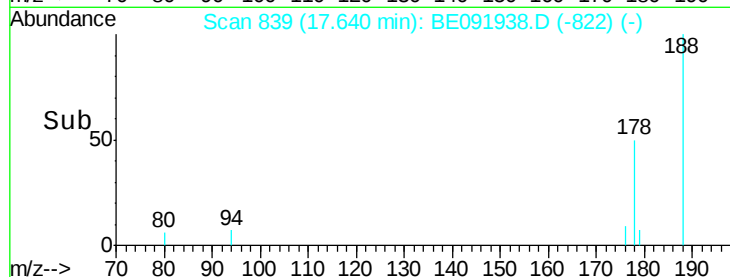
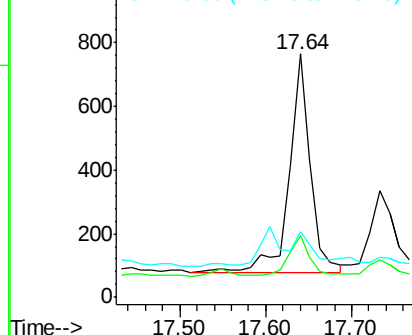
178 100

176 17.8 15.4 23.2

179 14.6 12.9 19.3



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



#29

Anthracene

Concen: 0.03 ng

RT: 17.64 min Scan# 839

Delta R.T. -0.09 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

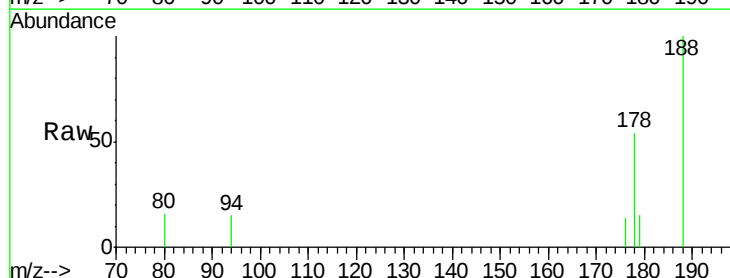
Tgt Ion:178 Resp: 1122

Ion Ratio Lower Upper

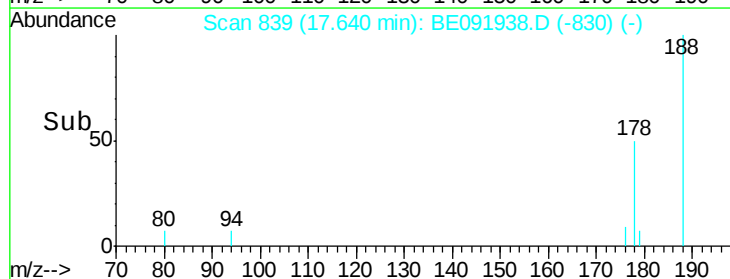
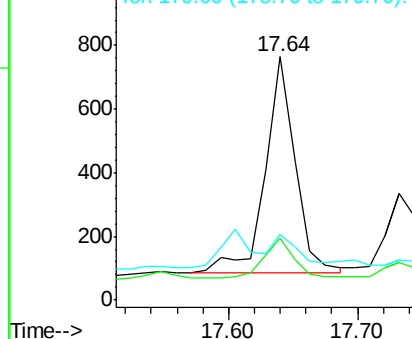
178 100

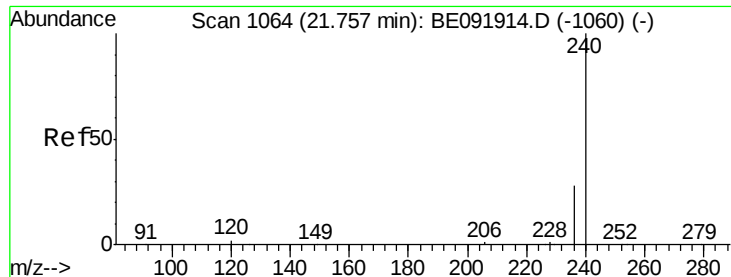
176 18.7 15.1 22.7

179 13.2 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.76 min Scan# 1064

Delta R.T. 0.00 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Instrument :

BNA\_F

ClientSampleId :

KY038PS037-160531

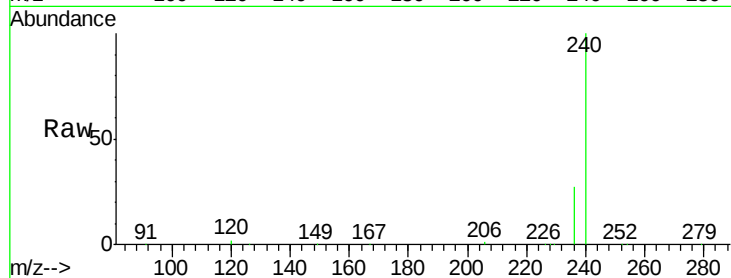
Tgt Ion:240 Resp: 308042

Ion Ratio Lower Upper

240 100

120 1.5 1.2 1.8

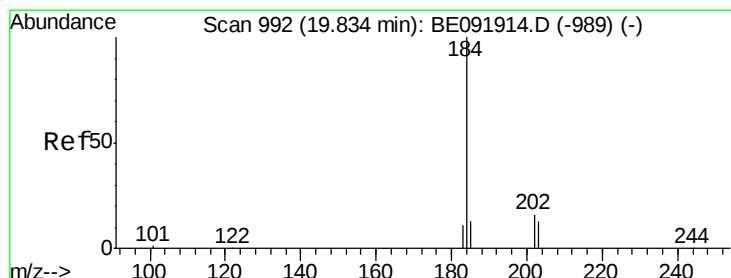
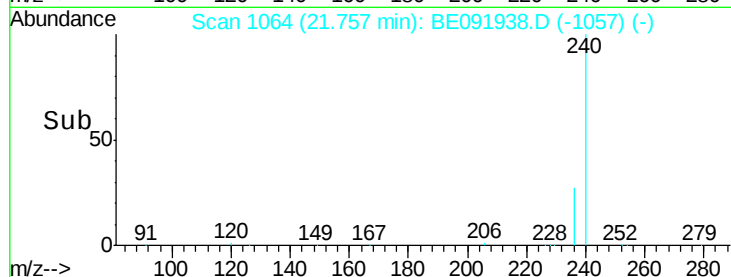
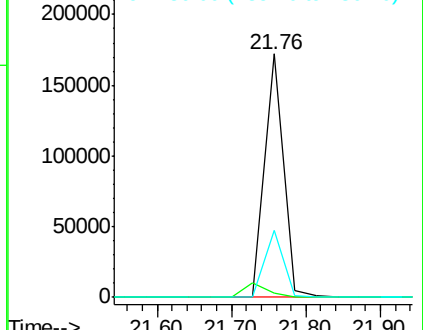
236 27.5 19.8 29.8



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



#32

Benzidine

Concen: 0.36 ng

RT: 20.20 min Scan# 1008

Delta R.T. 0.37 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

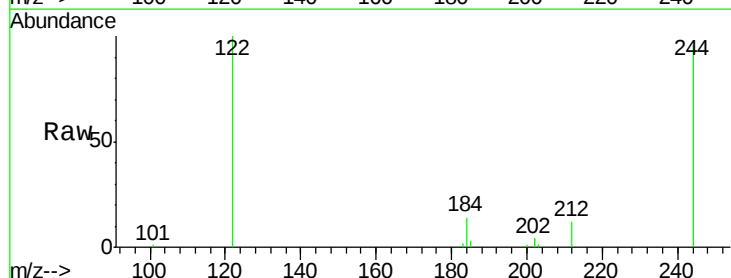
Tgt Ion:184 Resp: 3119

Ion Ratio Lower Upper

184 100

185 20.0 11.4 17.2#

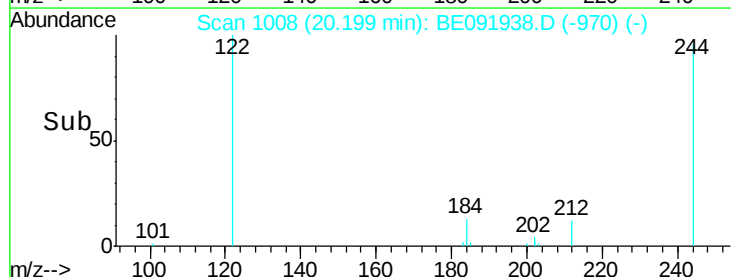
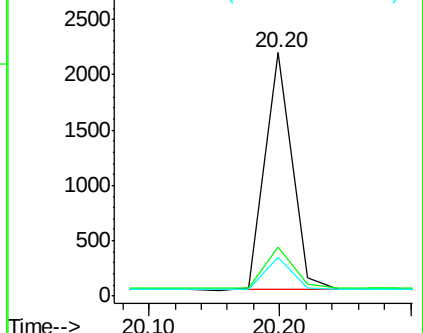
183 16.1 11.8 17.6

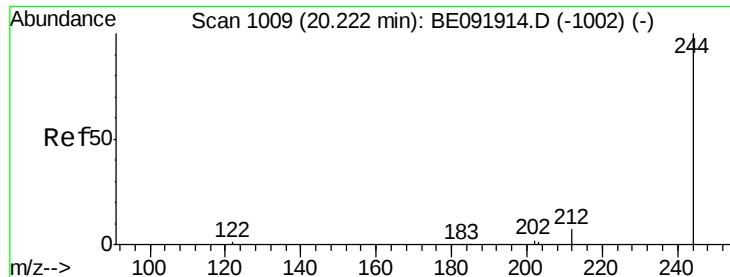


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#34

Terphenyl-d14

Concen: 4.17 ng

RT: 20.22 min Scan# 1009

Delta R.T. 0.00 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Instrument :

BNA\_F

ClientSampleId :

KY038PS037-160531

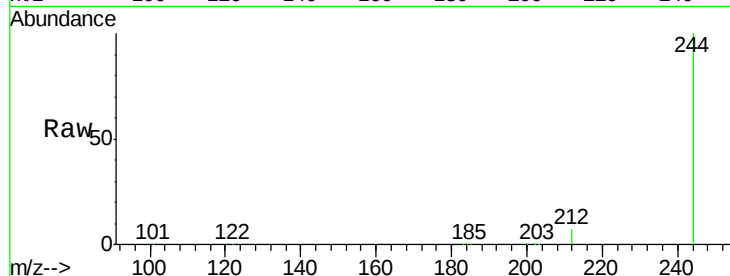
Tgt Ion:244 Resp: 157300

Ion Ratio Lower Upper

244 100

212 6.8 6.5 9.7

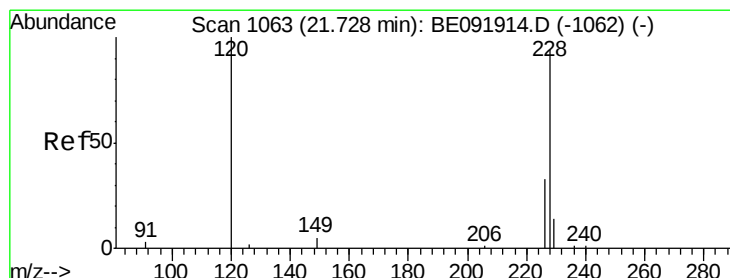
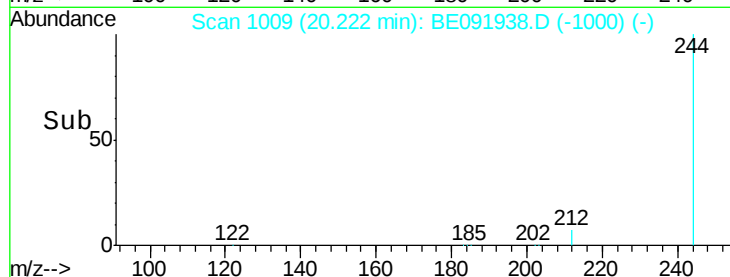
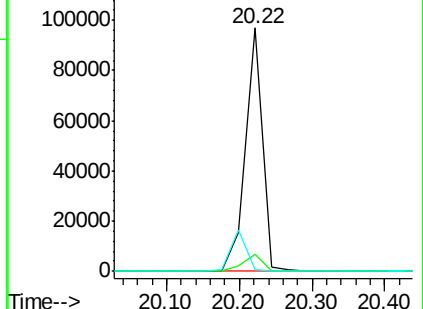
122 0.5 2.9 4.3#



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



#35

Benzo(a)anthracene

Concen: 0.06 ng

RT: 21.79 min Scan# 1065

Delta R.T. 0.06 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

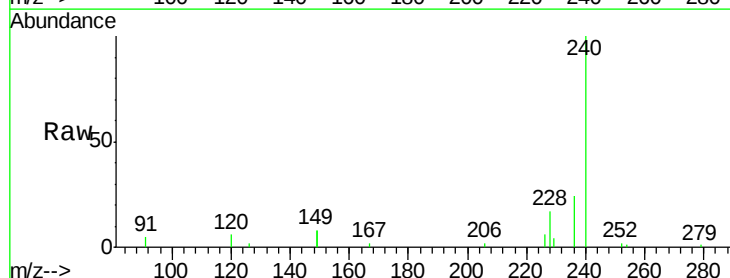
Tgt Ion:228 Resp: 3084

Ion Ratio Lower Upper

228 100

226 35.2 21.0 31.4#

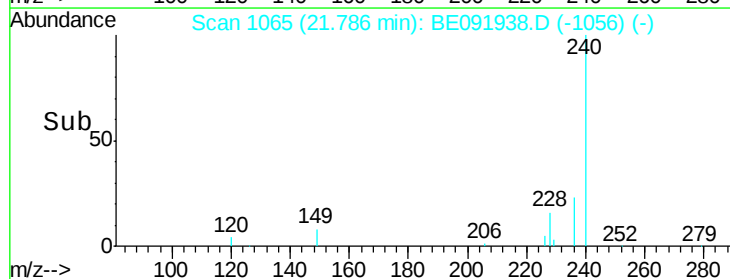
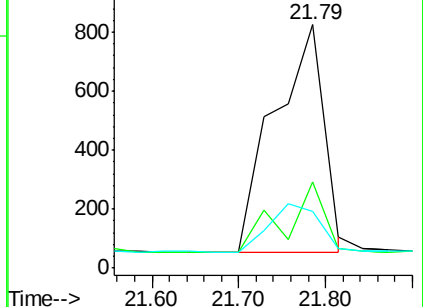
229 23.5 15.8 23.8

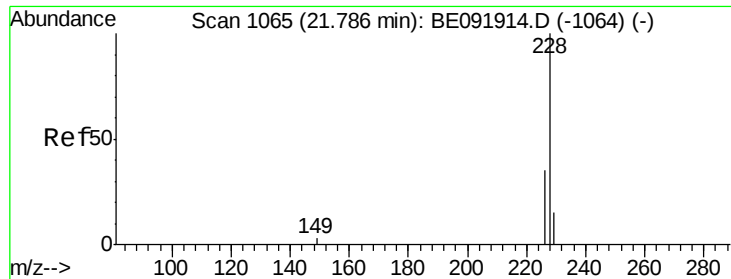


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#37

Chrysene

Concen: 0.04 ng

RT: 21.79 min Scan# 1065

Delta R.T. 0.00 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Instrument :

BNA\_F

ClientSampleId :

KY038PS037-160531

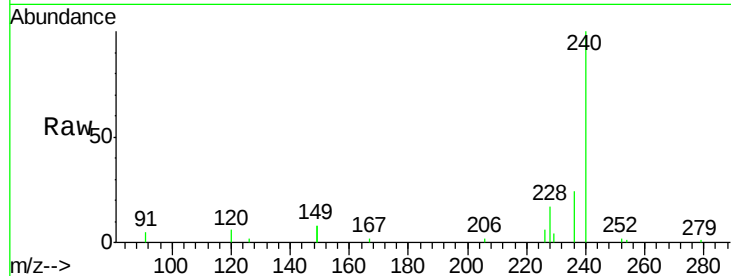
Tgt Ion:228 Resp: 3122

Ion Ratio Lower Upper

228 100

226 35.2 27.0 40.6

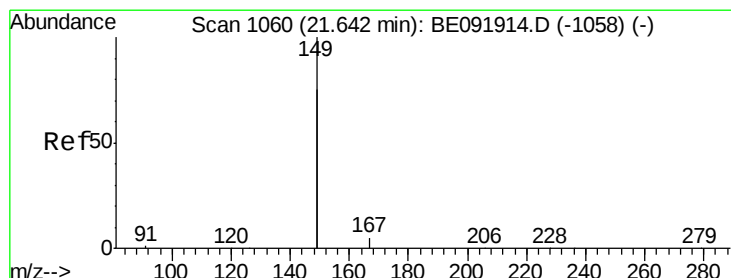
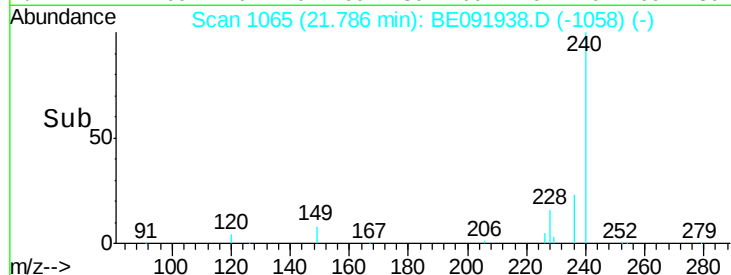
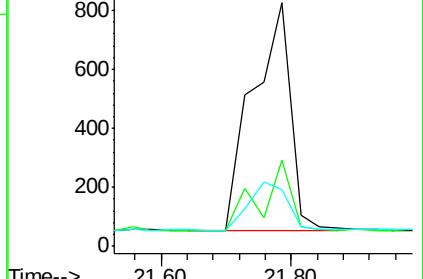
229 23.5 13.8 20.8#



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



#38

Bis(2-ethylhexyl)phthalate

Concen: 0.15 ng

RT: 21.64 min Scan# 1060

Delta R.T. -0.03 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

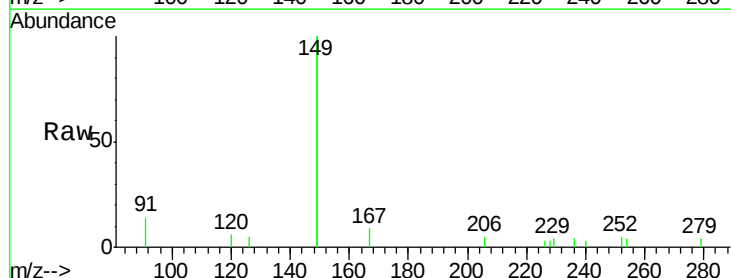
Tgt Ion:149 Resp: 6873

Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

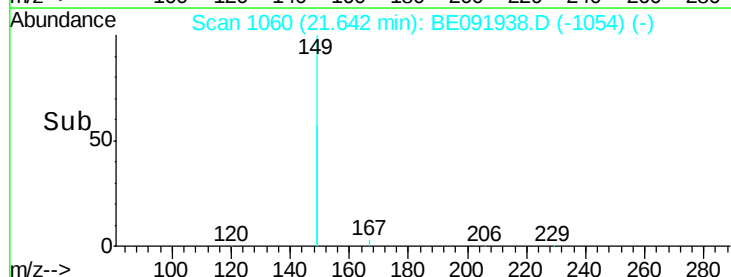
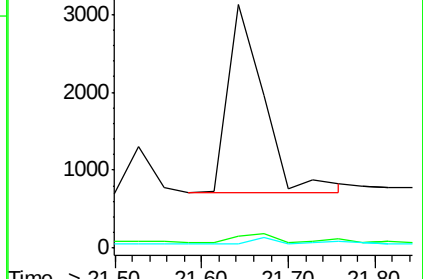
279 0.0 0.0 0.0

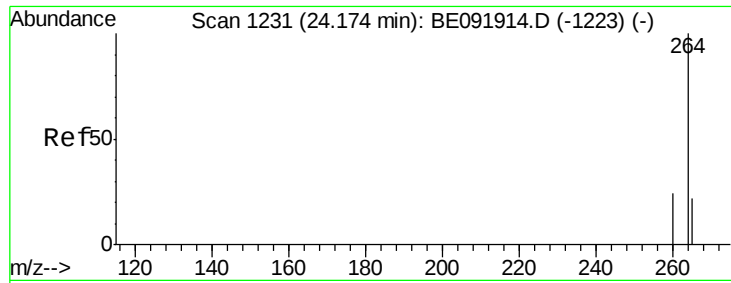


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#40

Perylene-d12

Concen: 5.00 ng

RT: 24.16 min Scan# 1231

Delta R.T. -0.01 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

Instrument :

BNA\_F

ClientSampleId :

KY038PS037-160531

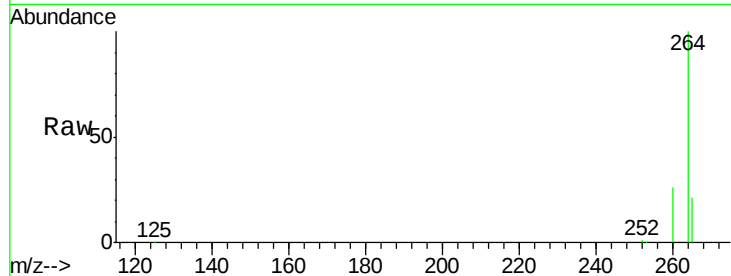
Tgt Ion:264 Resp: 221047

Ion Ratio Lower Upper

264 100

260 26.3 20.3 30.5

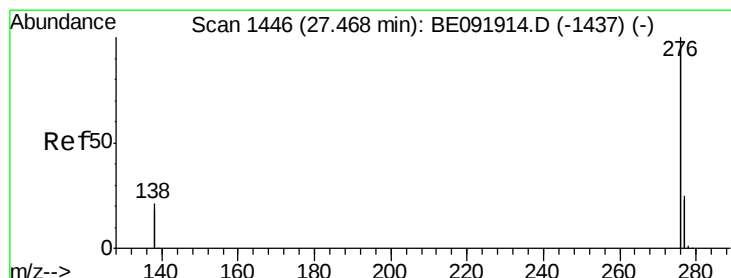
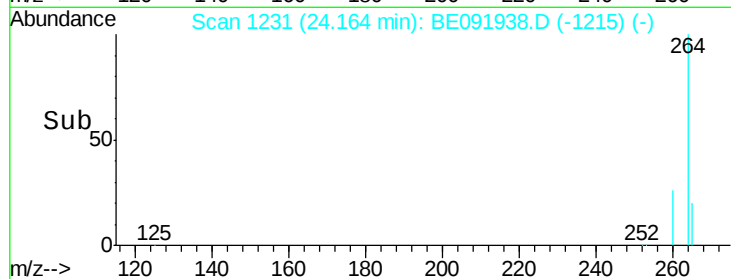
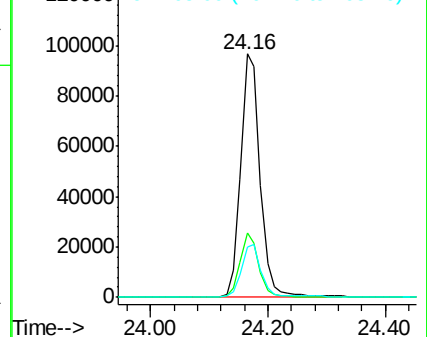
265 20.7 17.6 26.4



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#45

Benzo(g,h,i)perylene

Concen: 0.02 ng

RT: 27.47 min Scan# 1447

Delta R.T. -0.00 min

Lab File: BE091938.D

Acq: 16 Jun 2016 15:59

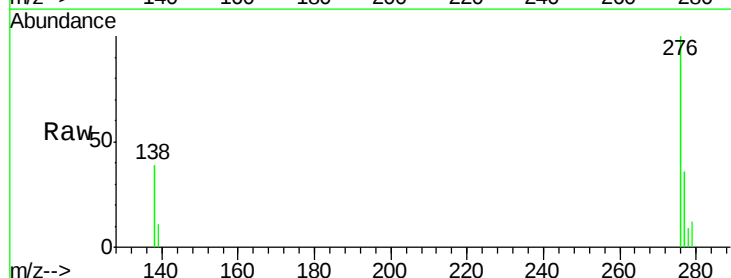
Tgt Ion:276 Resp: 4118

Ion Ratio Lower Upper

276 100

277 35.8 19.5 29.3#

138 39.5 17.7 26.5#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

