

Data Path : Z:\HPCHEM1\BNA E\DATA\BE052516\  
 Data File : BE091855.D  
 Acq On : 25 May 2016 12:29  
 Operator : UM/SJ  
 Sample : SSTDICC10  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: May 25 18:09:50 2016  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE052516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 25 18:07:24 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.79  | 152  | 24198    | 5.00 | ng    | 0.00     |
| 8) Naphthalene-d8         | 10.55 | 136  | 127434   | 5.00 | ng    | 0.00     |
| 15) Acenaphthene-d10      | 14.40 | 164  | 86326    | 5.00 | ng    | 0.00     |
| 24) Phenanthrene-d10      | 17.14 | 188  | 261970   | 5.00 | ng    | 0.00     |
| 31) Chrysene-d12          | 21.29 | 240  | 303819   | 5.00 | ng    | 0.00     |
| 40) Perylene-d12          | 23.71 | 264  | 260164   | 5.00 | ng    | 0.00     |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 4) 2-Fluorophenol           | 5.37  | 112 | 69927  | 10.49 | ng | -0.02 |
| 5) Phenol-d6                | 6.95  | 99  | 98411  | 11.04 | ng | 0.00  |
| 9) Nitrobenzene-d5          | 8.91  | 82  | 107490 | 10.66 | ng | -0.02 |
| 16) 2,4,6-Tribromophenol    | 15.87 | 330 | 38190  | 10.60 | ng | -0.02 |
| 17) 2-Fluorobiphenyl        | 13.01 | 172 | 227605 | 9.60  | ng | -0.02 |
| 34) Terphenyl-d14           | 19.74 | 244 | 400330 | 9.61  | ng | 0.00  |

|                                |       |     |         |        |    |       |
|--------------------------------|-------|-----|---------|--------|----|-------|
| Target Compounds               |       |     |         | Qvalue |    |       |
| 2) 1,4-Dioxane                 | 3.31  | 88  | 30999   | 9.82   | ng | 98    |
| 3) n-Nitrosodimethylamine      | 3.61  | 42  | 46678   | 11.05  | ng | 91    |
| 6) bis(2-Chloroethyl)ether     | 7.20  | 93  | 77716   | 10.56  | ng | 99    |
| 7) n-Nitroso-di-n-propylamine  | 8.57  | 70  | 75482   | 11.11  | ng | # 21  |
| 10) Nitrobenzene               | 8.96  | 77  | 103639  | 10.81  | ng | # 100 |
| 11) bis(2-Chloroethoxy)methane | 9.96  | 93  | 126667  | 11.37  | ng | # 13  |
| 12) Naphthalene                | 10.61 | 128 | 251867  | 9.84   | ng | 97    |
| 13) Hexachlorobutadiene        | 10.90 | 225 | 38094   | 9.61   | ng | 99    |
| 14) 2-Methylnaphthalene        | 12.22 | 142 | 176926  | 10.19  | ng | # 88  |
| 18) Acenaphthylene             | 14.10 | 152 | 381064  | 9.93   | ng | # 91  |
| 19) 2,6-Dinitrotoluene         | 13.96 | 165 | 68432   | 11.64  | ng | # 81  |
| 20) Acenaphthene               | 14.44 | 154 | 204115  | 9.68   | ng | 98    |
| 21) 2,4-Dinitrotoluene         | 14.76 | 165 | 85535   | 12.54  | ng | # 1   |
| 22) Fluorene                   | 15.44 | 166 | 271700  | 9.78   | ng | 100   |
| 23) 4-Chlorophenyl-phenylether | 15.44 | 204 | 126851  | 9.33   | ng | 97    |
| 25) 4-Bromophenyl-phenylether  | 16.31 | 248 | 84323   | 9.83   | ng | 98    |
| 26) Hexachlorobenzene          | 16.44 | 284 | 77768   | 9.50   | ng | 99    |
| 27) Pentachlorophenol          | 16.78 | 266 | 46427   | 12.72  | ng | 90    |
| 28) Phenanthrene               | 17.17 | 178 | 466957  | 9.39   | ng | 99    |
| 29) Anthracene                 | 17.26 | 178 | 474500  | 9.96   | ng | 99    |
| 30) Fluoranthene               | 19.19 | 202 | 542220  | 9.42   | ng | 99    |
| 32) Benzidine                  | 19.36 | 184 | 282236  | 11.82  | ng | # 95  |
| 33) Pyrene                     | 19.53 | 202 | 571227  | 9.81   | ng | 99    |
| 35) Benzo(a)anthracene         | 21.27 | 228 | 1213894 | 12.28  | ng | 98    |
| 36) 3,3'-Dichlorobenzidine     | 21.22 | 252 | 389729  | 9.83   | ng | # 92  |
| 37) Chrysene                   | 21.27 | 228 | 1216789 | 12.52  | ng | 91    |
| 38) Bis(2-ethylhexyl)phthalate | 21.17 | 149 | 266592  | 10.31  | ng | # 100 |
| 39) Indeno(1,2,3-cd)pyrene     | 26.26 | 276 | 677466  | 9.77   | ng | 100   |
| 41) Benzo(b)fluoranthene       | 22.97 | 252 | 647823  | 10.27  | ng | # 96  |
| 42) Benzo(k)fluoranthene       | 23.02 | 252 | 560470  | 9.23   | ng | 97    |
| 43) Benzo(a)pyrene             | 23.60 | 252 | 589062  | 9.95   | ng | 95    |
| 44) Dibenzo(a,h)anthracene     | 26.28 | 278 | 559721  | 9.87   | ng | 98    |
| 45) Benzo(a,h,i)perylene       | 27.05 | 276 | 561043  | 9.80   | ng | 98    |

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Instrument :  
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Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

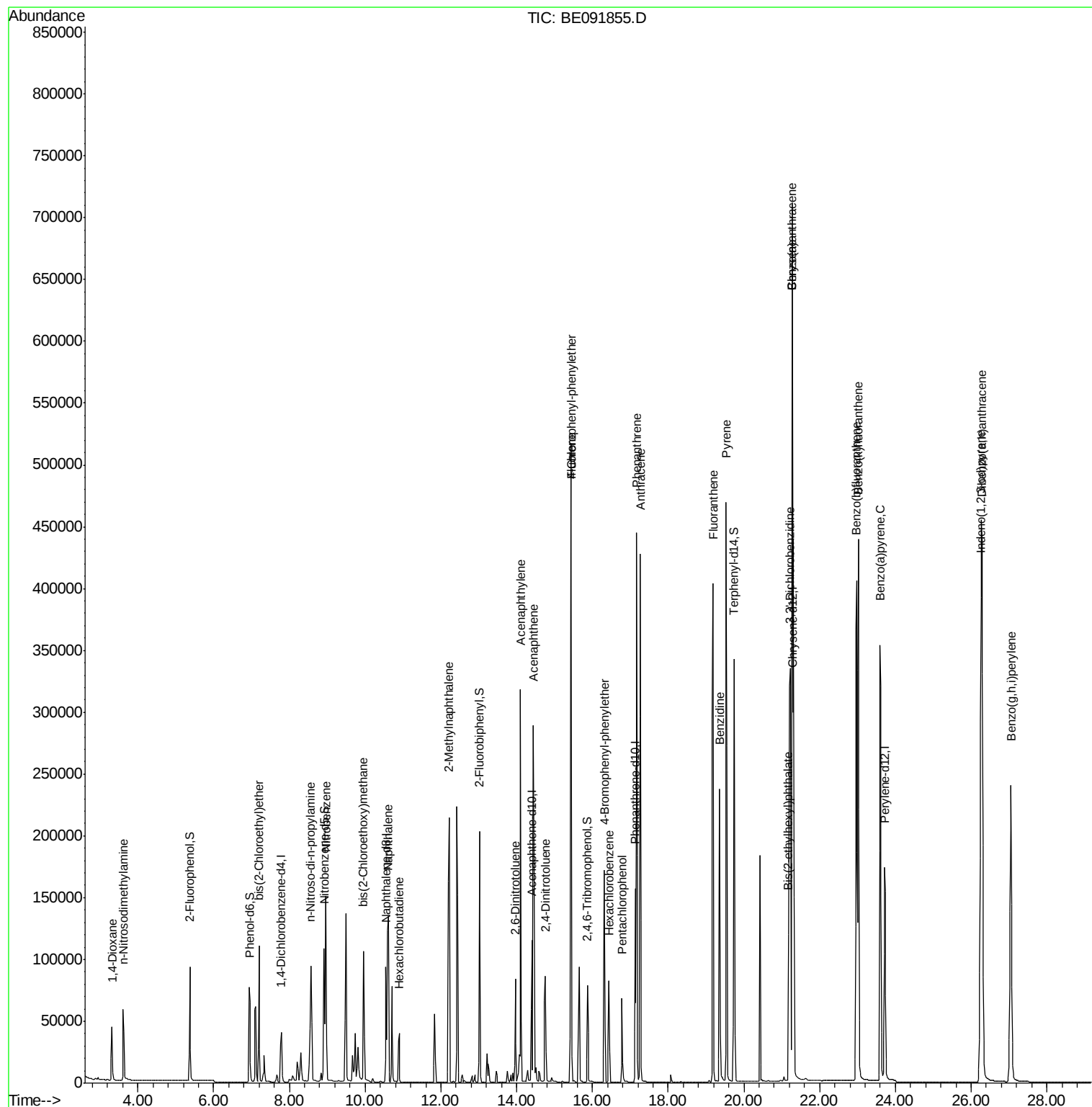
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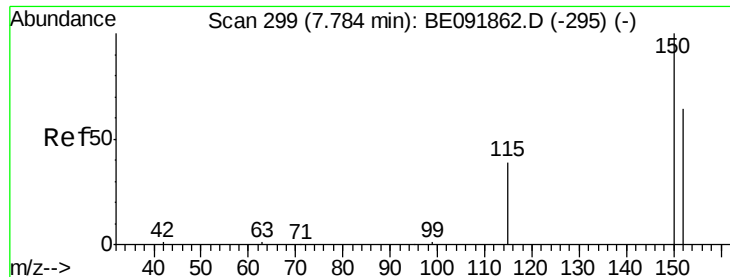
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.79 min Scan# 299

Delta R.T. 0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampled :

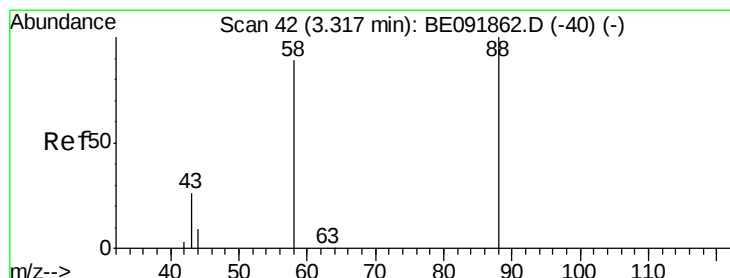
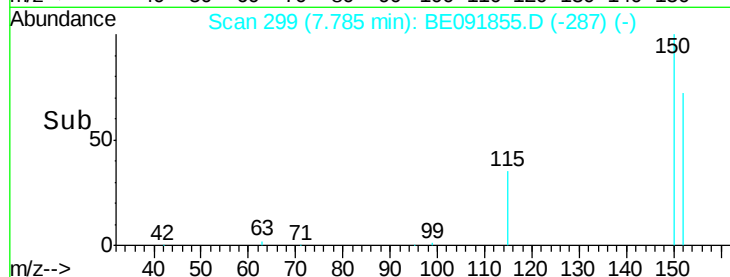
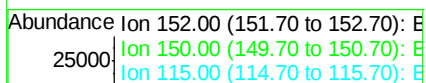
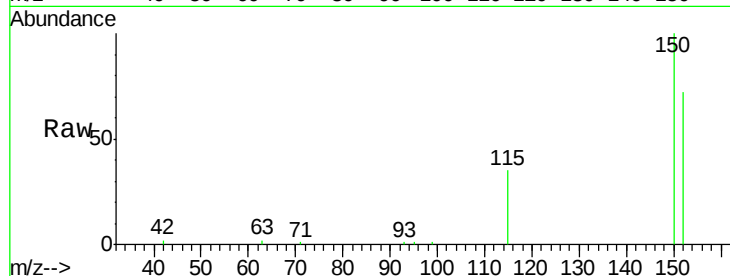
Tot Ion:152 Resp: 24198

Ion Ratio Lower Upper

152 100

150 139.5 123.9 185.9

115 48.8 48.3 72.5



#2

1,4-Dioxane

Concen: 9.82 ng

RT: 3.31 min Scan# 42

Delta R.T. -0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

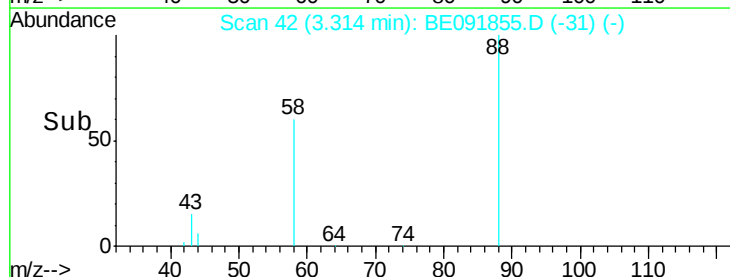
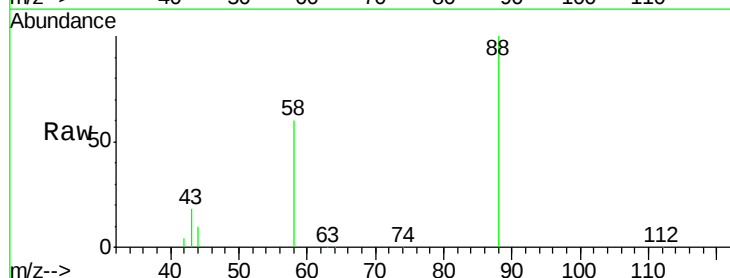
Tgt Ion: 88 Resp: 30999

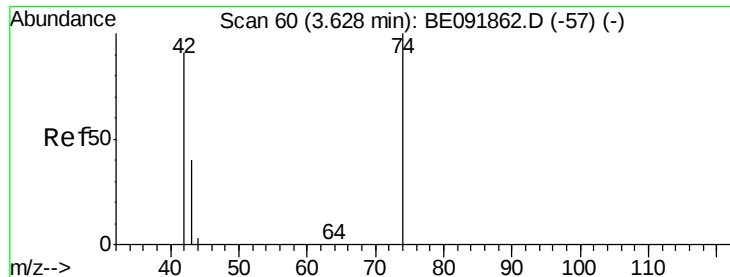
Ion Ratio Lower Upper

88 100

58 79.9 63.0 94.4

43 33.5 29.1 43.7



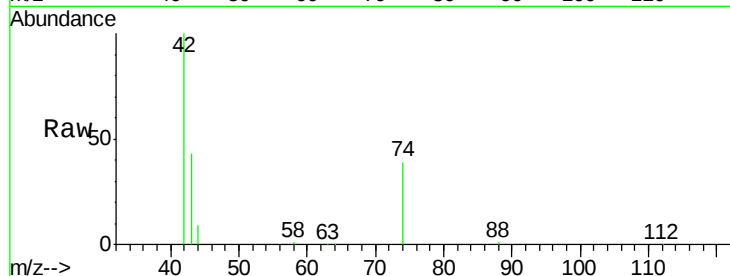


#3

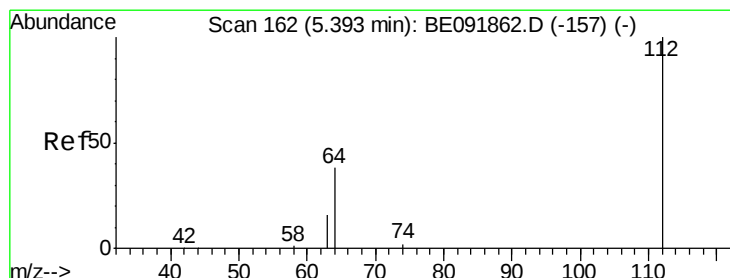
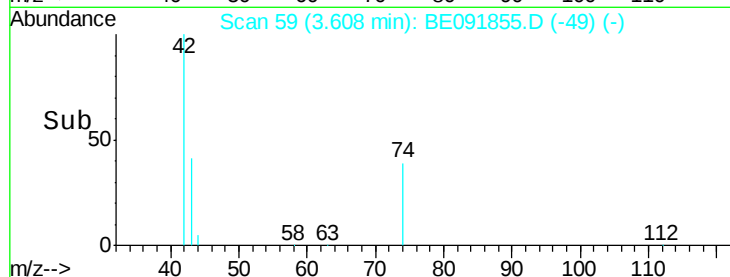
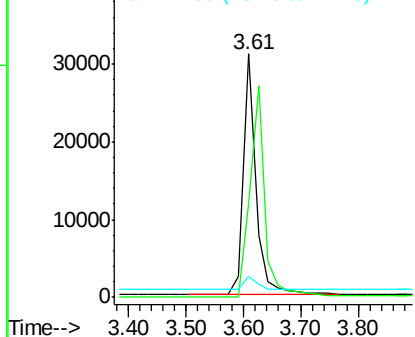
n-Nitrosodimethylamine  
Concen: 11.05 ng  
RT: 3.61 min Scan# 59  
Delta R.T. -0.02 min  
Lab File: BE091855.D  
Acq: 25 May 2016 12:29

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion: 42 Resp: 46678  
Ion Ratio Lower Upper  
42 100  
74 105.9 93.4 140.0  
44 6.2 5.0 7.6



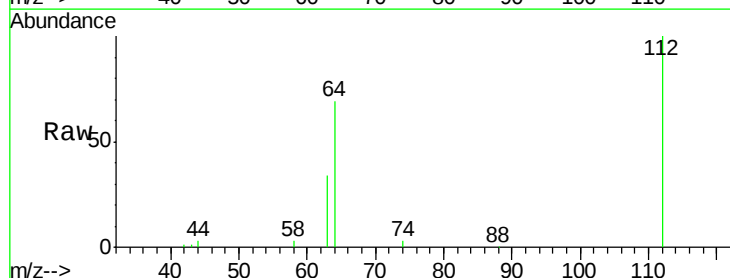
Abundance Ion 42.00 (41.70 to 42.70): BE0  
Ion 74.00 (73.70 to 74.70): BE0  
Ion 44.00 (43.70 to 44.70): BE0



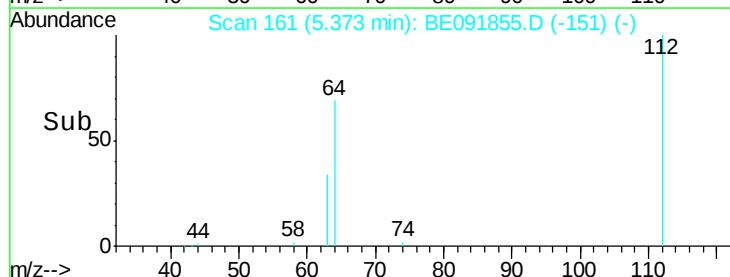
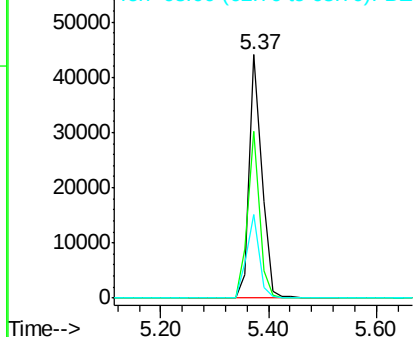
#4

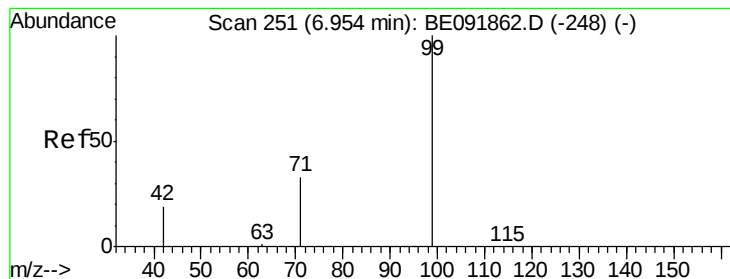
2-Fluorophenol  
Concen: 10.49 ng  
RT: 5.37 min Scan# 161  
Delta R.T. -0.02 min  
Lab File: BE091855.D  
Acq: 25 May 2016 12:29

Tgt Ion: 112 Resp: 69927  
Ion Ratio Lower Upper  
112 100  
64 66.6 53.7 80.5  
63 35.4 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: 11.04 ng

RT: 6.95 min Scan# 251

Delta R.T. 0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

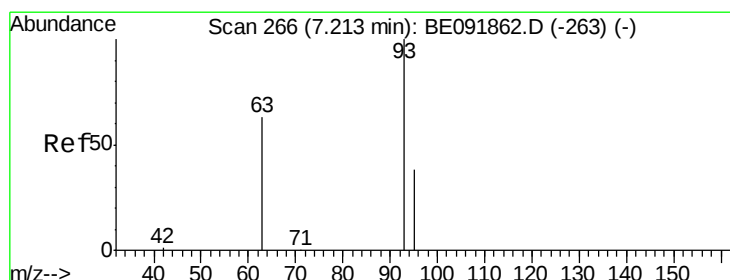
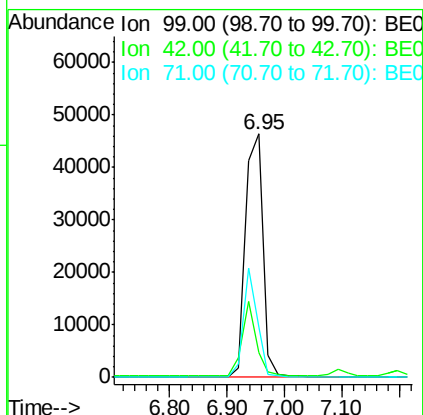
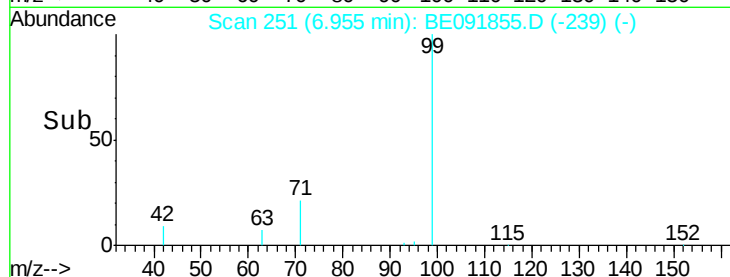
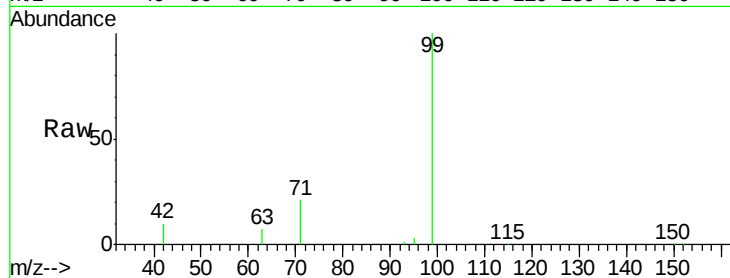
Tot Ion: 99 Resp: 98411

Ion Ratio Lower Upper

99 100

42 24.3 19.6 29.4

71 35.6 28.1 42.1



#6

bis(2-Chloroethyl)ether

Concen: 10.56 ng

RT: 7.20 min Scan# 265

Delta R.T. -0.02 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

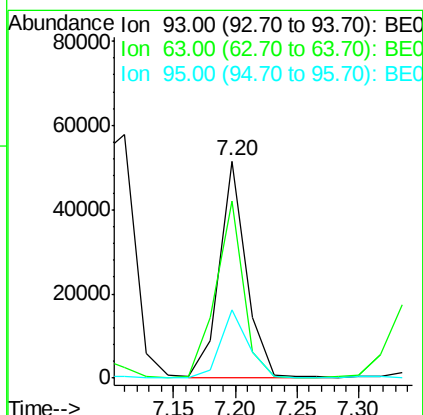
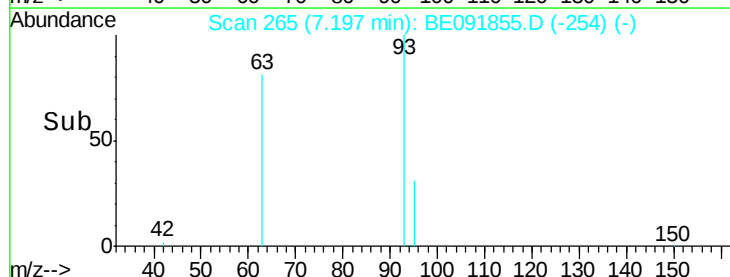
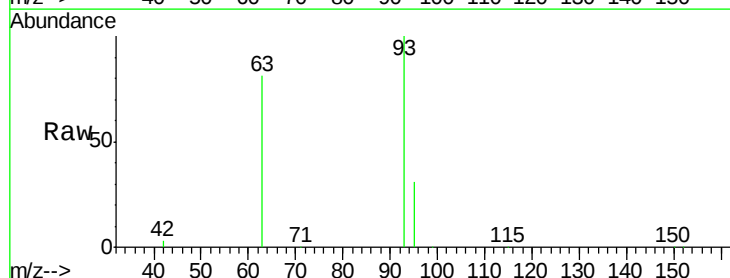
Tgt Ion: 93 Resp: 77716

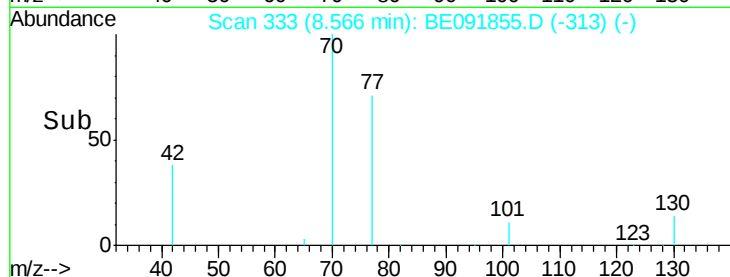
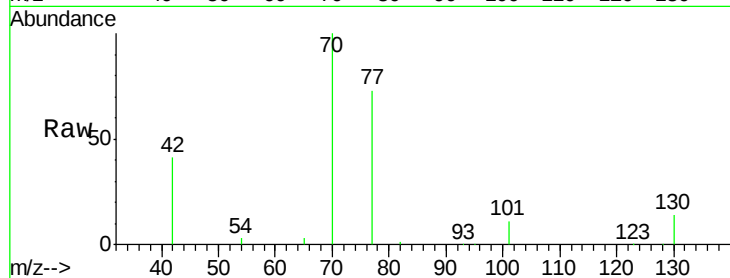
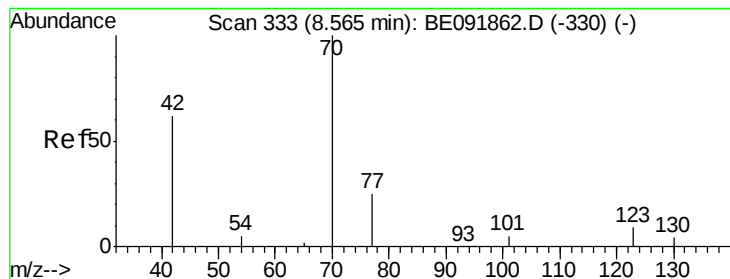
Ion Ratio Lower Upper

93 100

63 84.0 66.2 99.4

95 32.3 25.5 38.3





#7

n-Nitroso-di-n-propylamine

Concen: 11.11 ng

RT: 8.57 min Scan# 333

Delta R.T. 0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

Tot Ion: 70 Resp: 75482

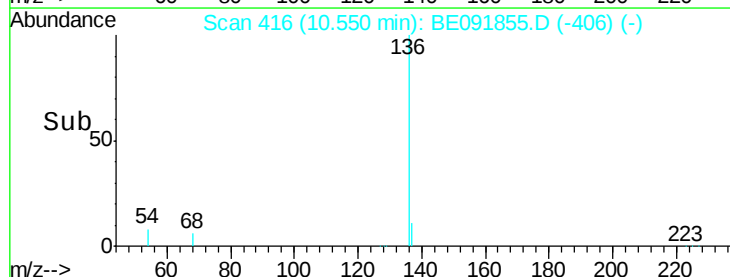
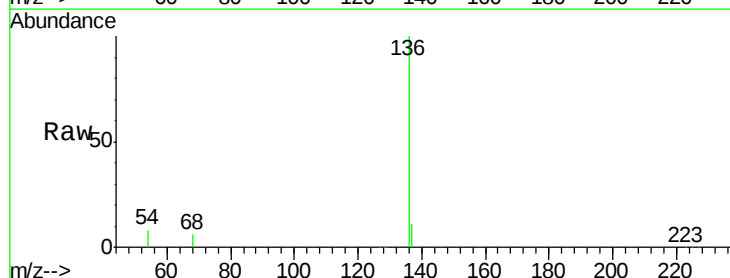
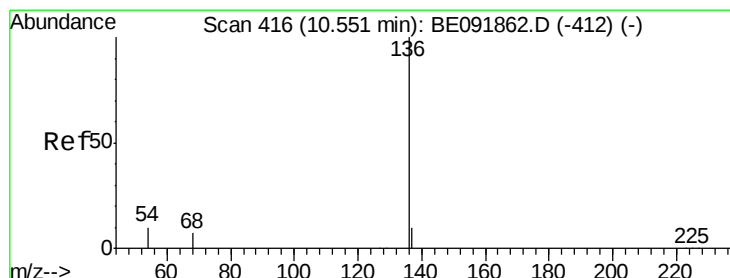
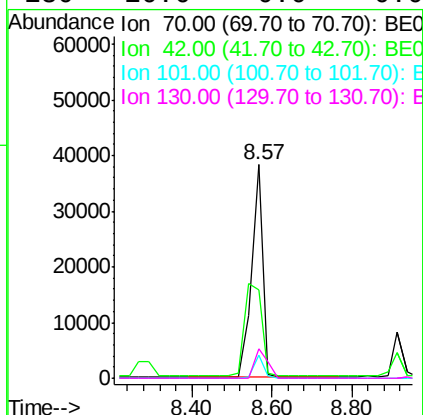
Ion Ratio Lower Upper

70 100

42 0.0 58.4 87.6#

101 9.3 6.4 9.6

130 16.6 0.0 0.0#



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.55 min Scan# 416

Delta R.T. -0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Tgt Ion: 136 Resp: 127434

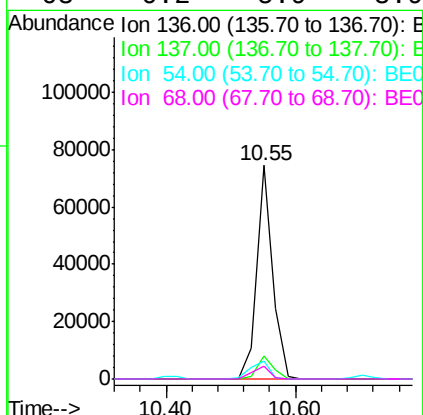
Ion Ratio Lower Upper

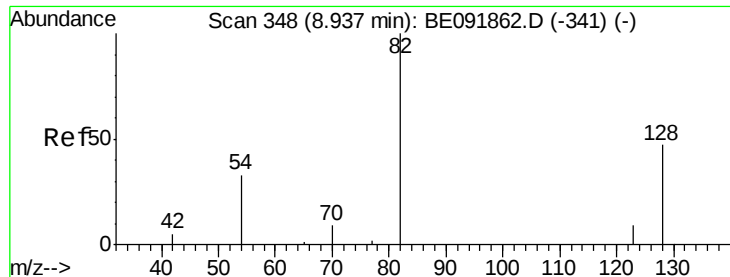
136 100

137 10.7 8.3 12.5

54 8.4 8.2 12.4

68 6.2 5.9 8.9





#9

Nitrobenzene-d5

Concen: 10.66 ng

RT: 8.91 min Scan# 347

Delta R.T. -0.02 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

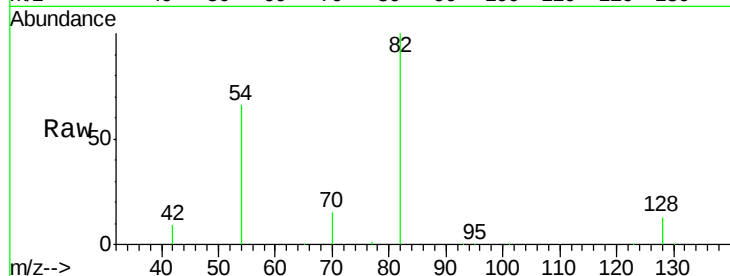
Tot Ion: 82 Resp: 107490

Ion Ratio Lower Upper

82 100

128 12.8 39.5 59.3#

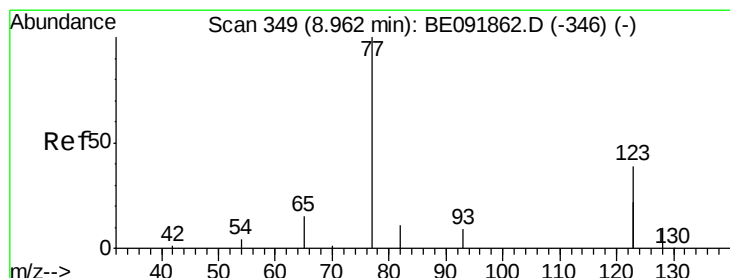
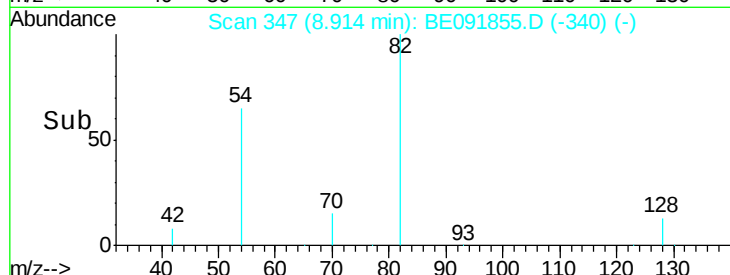
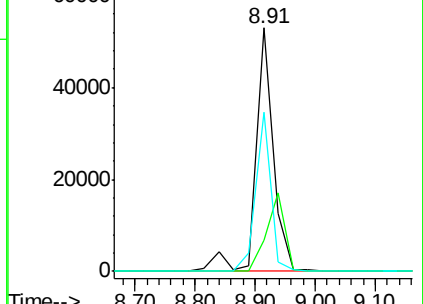
54 65.6 30.3 45.5#



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



#10

Nitrobenzene

Concen: 10.81 ng

RT: 8.96 min Scan# 349

Delta R.T. 0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

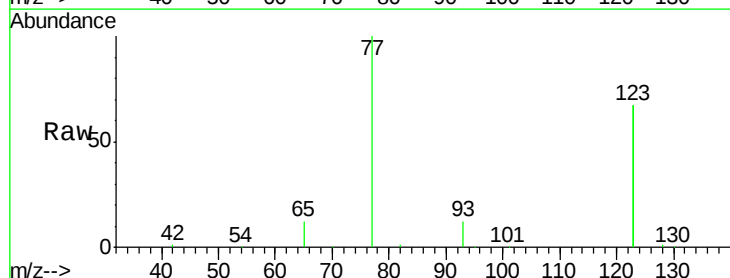
Tgt Ion: 77 Resp: 103639

Ion Ratio Lower Upper

77 100

123 151.2 0.0 0.0#

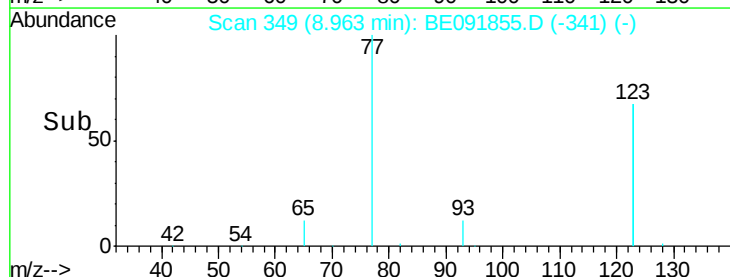
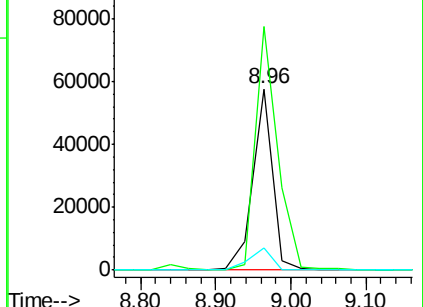
65 13.8 11.1 16.7

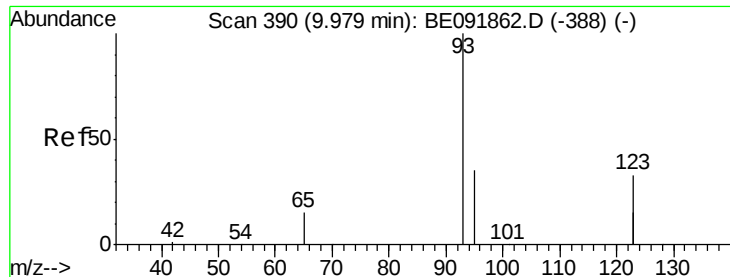


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0





#11

bis(2-Chloroethoxy)methane

Concen: 11.37 ng

RT: 9.96 min Scan# 389

Delta R.T. -0.02 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

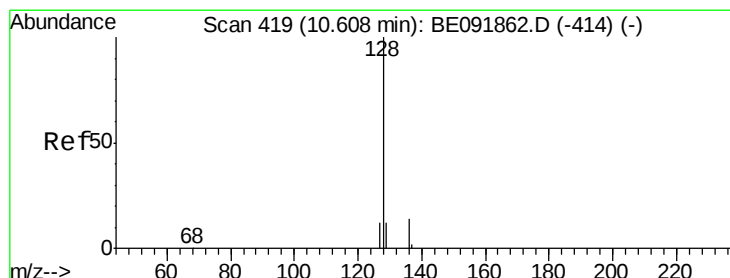
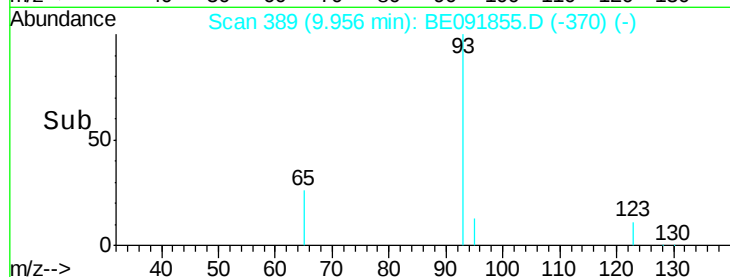
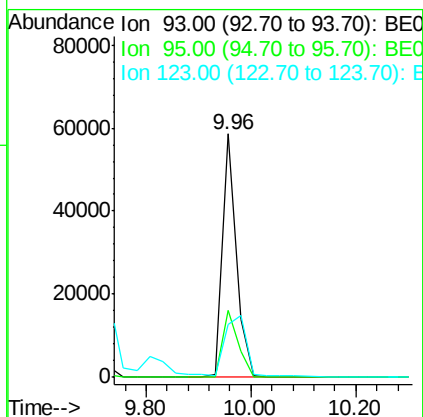
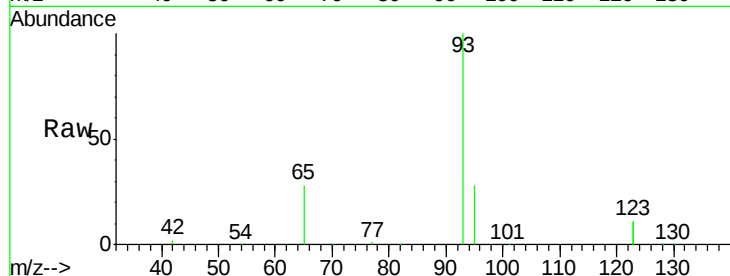
Tot Ion: 93 Resp: 126667

Ion Ratio Lower Upper

93 100

95 31.8 57.6 86.4#

123 0.0 100.2 150.4#



#12

Naphthalene

Concen: 9.84 ng

RT: 10.61 min Scan# 419

Delta R.T. -0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

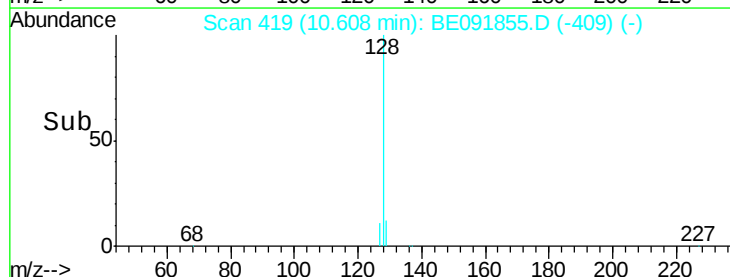
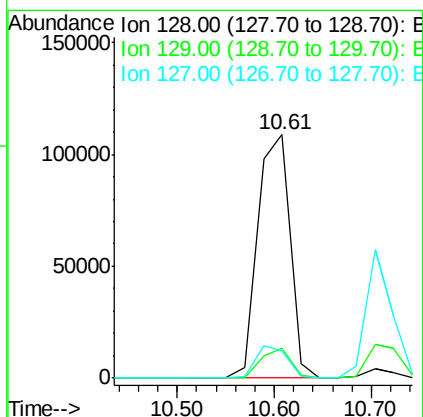
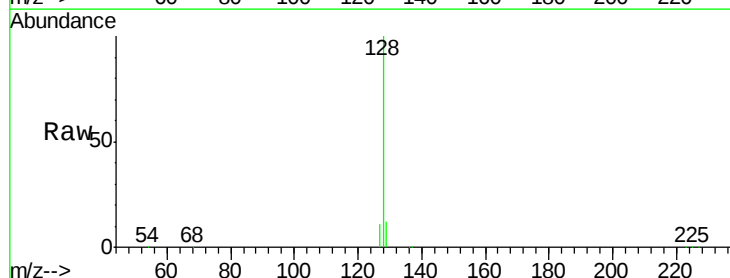
Tgt Ion: 128 Resp: 251867

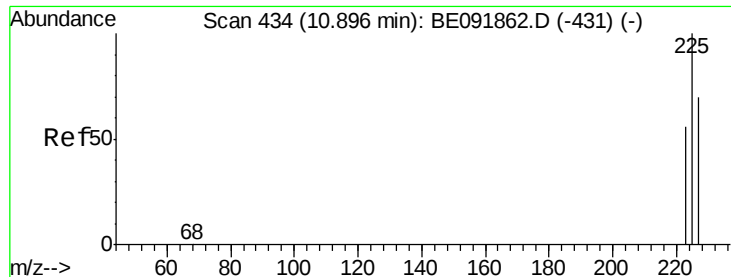
Ion Ratio Lower Upper

128 100

129 12.2 10.4 15.6

127 11.4 10.2 15.2

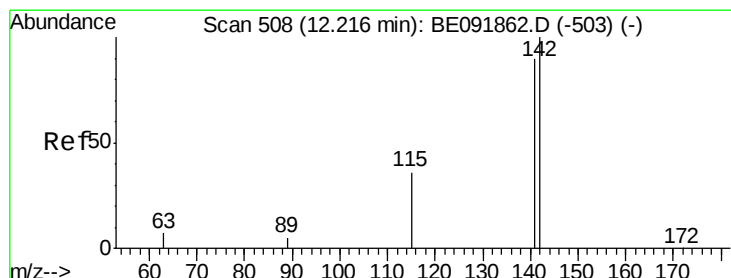
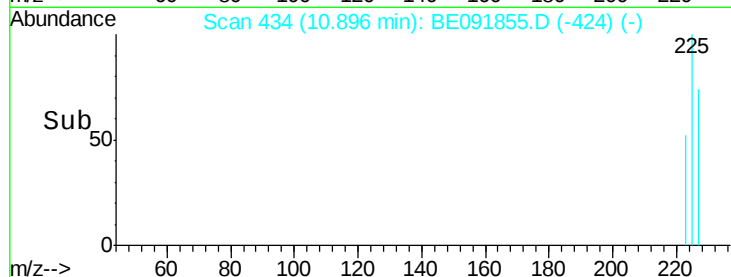
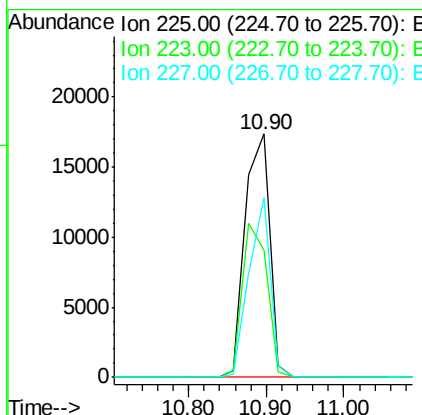
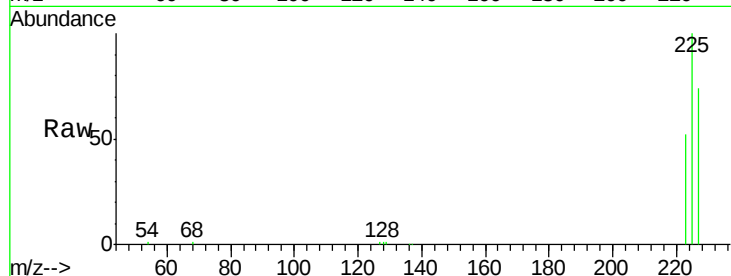




#13  
Hexachlorobutadiene  
Concen: 9.61 ng  
RT: 10.90 min Scan# 434  
Delta R.T. -0.00 min  
Lab File: BE091855.D  
Acq: 25 May 2016 12:29

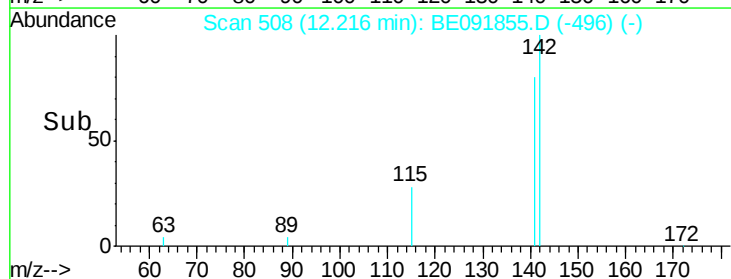
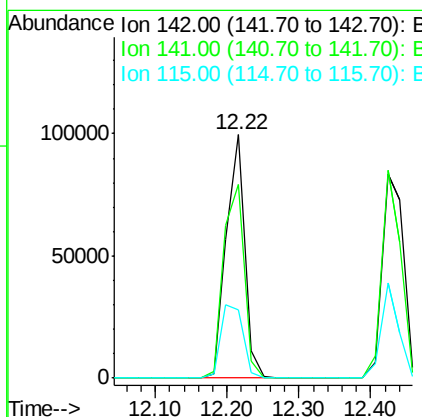
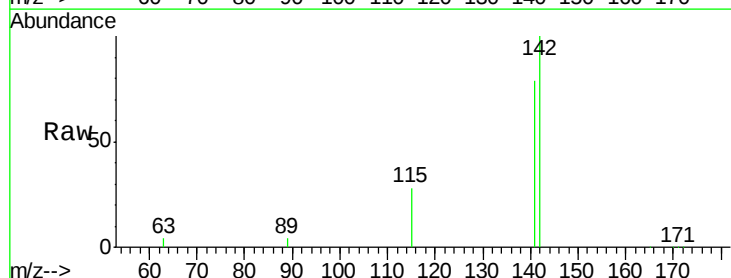
Instrument :  
BNA\_E  
ClientSampleId :

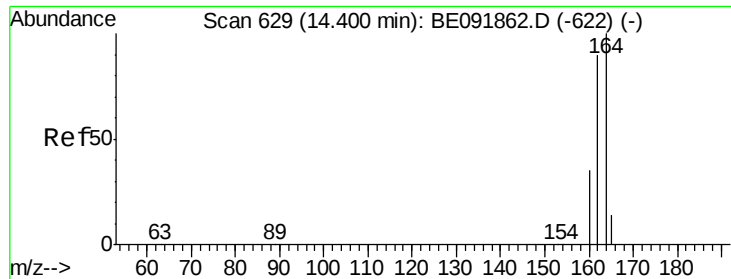
Tot Ion:225 Resp: 38094  
Ion Ratio Lower Upper  
225 100  
223 62.8 49.8 74.8  
227 64.0 50.6 75.8



#14  
2-Methylnaphthalene  
Concen: 10.19 ng  
RT: 12.22 min Scan# 508  
Delta R.T. -0.00 min  
Lab File: BE091855.D  
Acq: 25 May 2016 12:29

Tgt Ion:142 Resp: 176926  
Ion Ratio Lower Upper  
142 100  
141 79.5 71.9 107.9  
115 28.0 29.9 44.9#





#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 629

Delta R.T. -0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

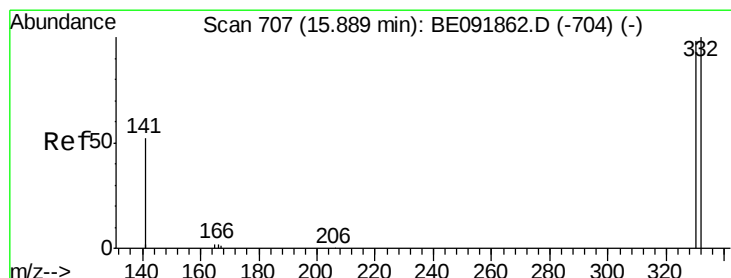
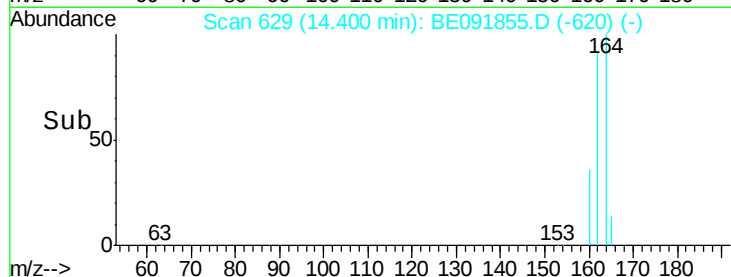
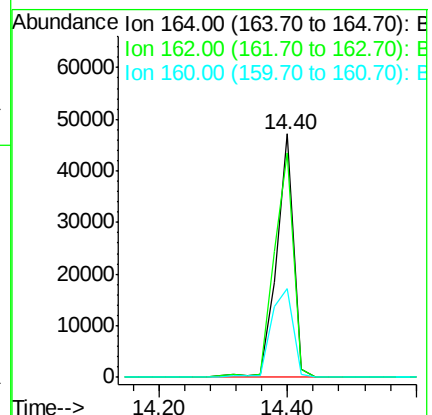
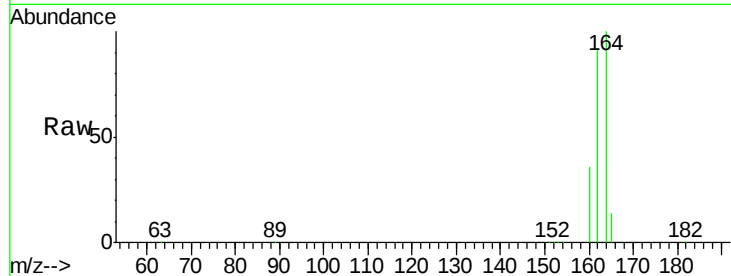
Tot Ion:164 Resp: 86326

Ion Ratio Lower Upper

164 100

162 92.2 71.8 107.8

160 36.4 28.0 42.0



#16

2,4,6-Tribromophenol

Concen: 10.60 ng

RT: 15.87 min Scan# 706

Delta R.T. -0.02 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

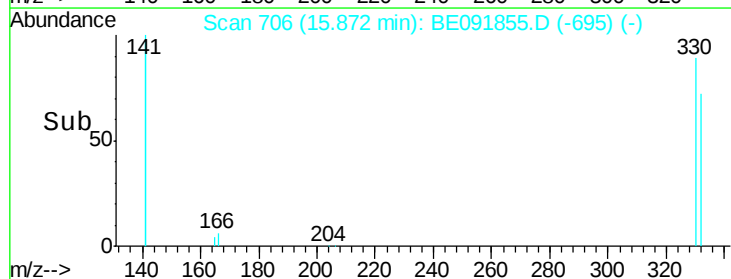
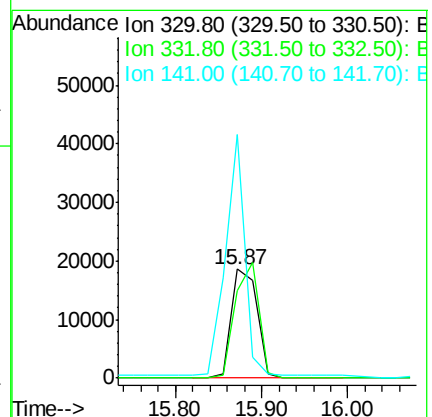
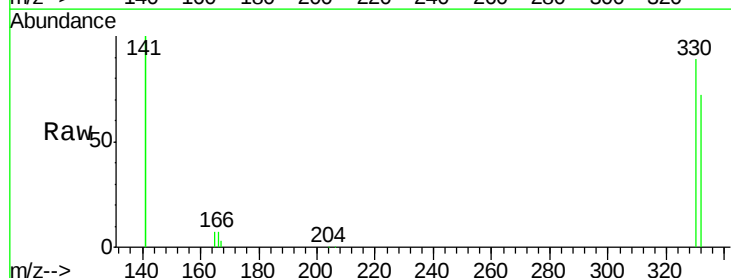
Tgt Ion:330 Resp: 38190

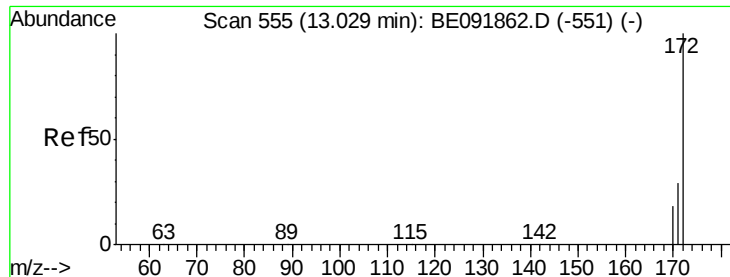
Ion Ratio Lower Upper

330 100

332 98.5 77.0 115.6

141 168.7 138.4 207.6

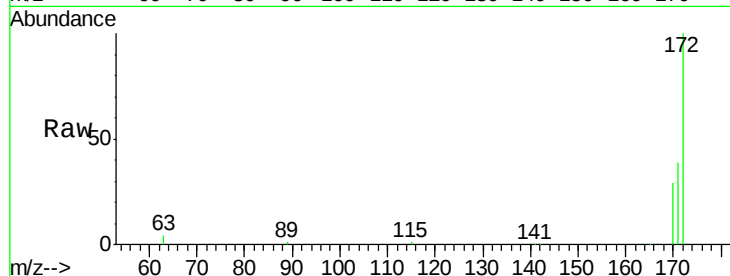




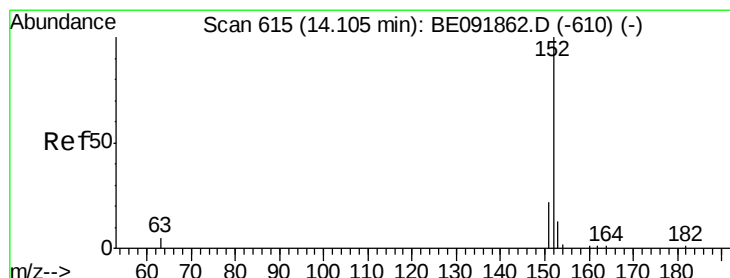
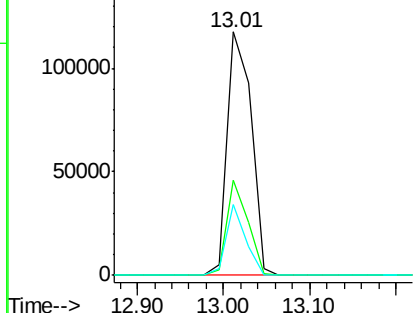
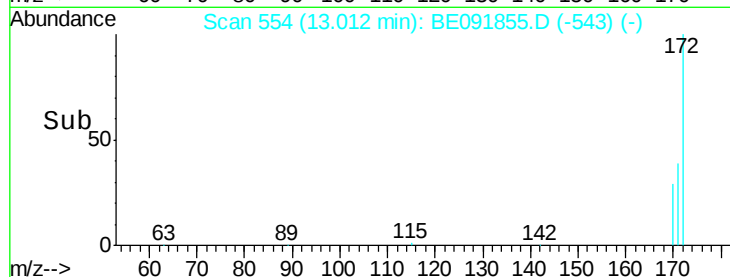
#17  
2-Fluorobiphenyl  
Concen: 9.60 ng  
RT: 13.01 min Scan# 554  
Delta R.T. -0.02 min  
Lab File: BE091855.D  
Acq: 25 May 2016 12:29

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 227605  
Ion Ratio Lower Upper  
172 100  
171 39.1 24.3 36.5#  
170 29.0 14.9 22.3#

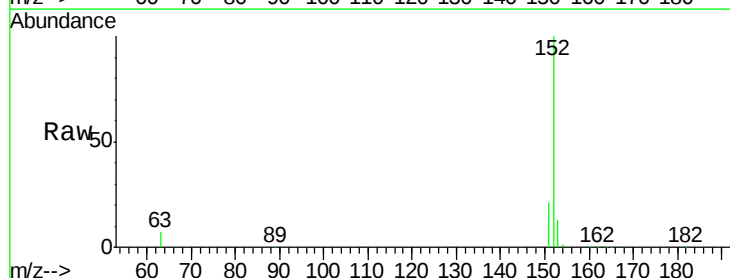


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

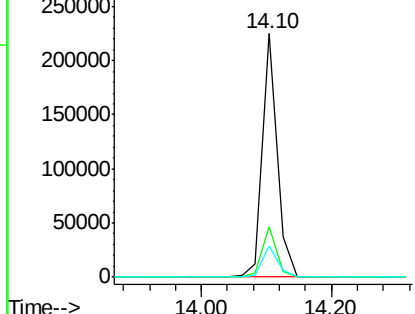
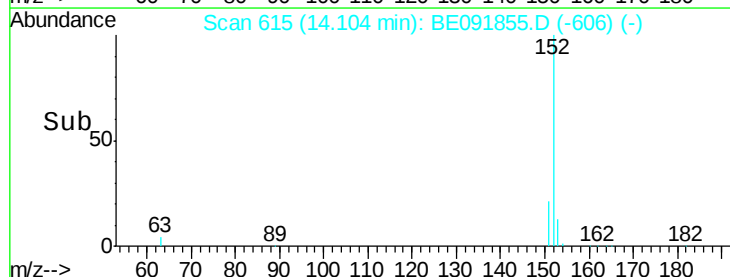


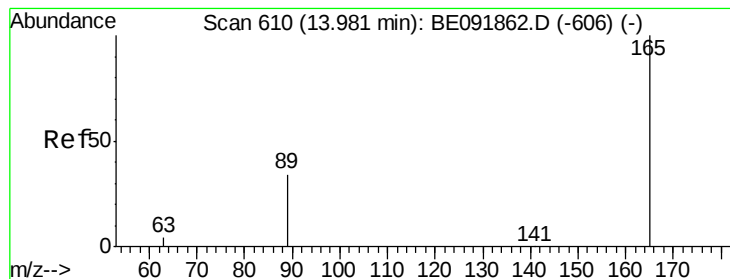
#18  
Acenaphthylene  
Concen: 9.93 ng  
RT: 14.10 min Scan# 615  
Delta R.T. -0.00 min  
Lab File: BE091855.D  
Acq: 25 May 2016 12:29

Tgt Ion:152 Resp: 381064  
Ion Ratio Lower Upper  
152 100  
151 20.7 19.4 29.2  
153 13.3 14.4 21.6#



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





#19

2,6-Dinitrotoluene

Concen: 11.64 ng

RT: 13.96 min Scan# 609

Delta R.T. -0.02 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

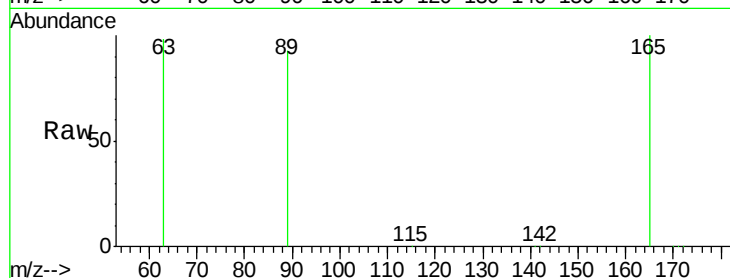
Tot Ion:165 Resp: 68432

Ion Ratio Lower Upper

165 100

63 59.0 65.9 98.9#

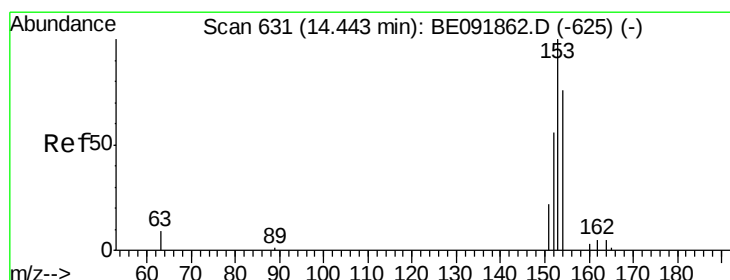
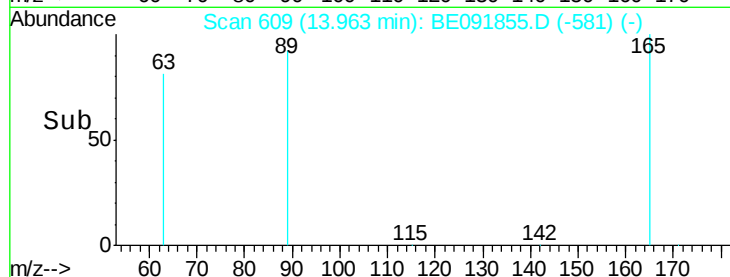
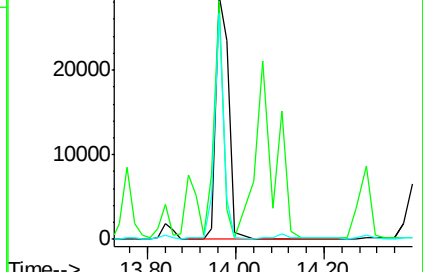
89 65.4 59.1 88.7



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



#20

Acenaphthene

Concen: 9.68 ng

RT: 14.44 min Scan# 631

Delta R.T. -0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

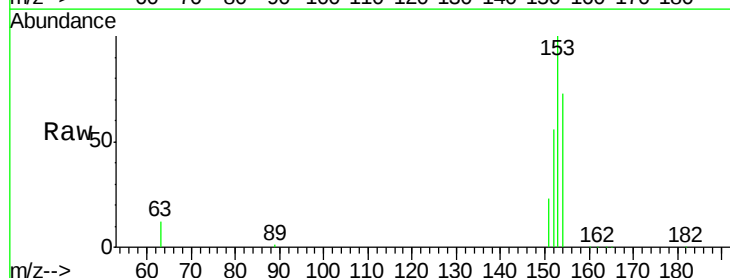
Tgt Ion:154 Resp: 204115

Ion Ratio Lower Upper

154 100

153 108.5 88.1 132.1

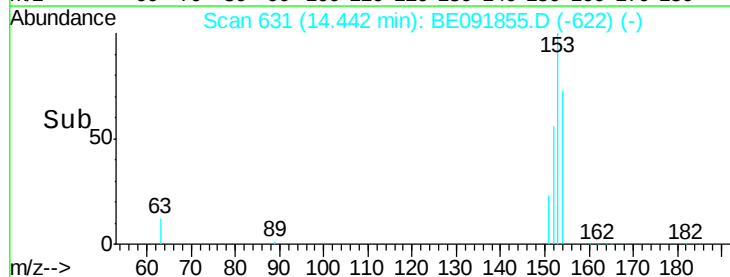
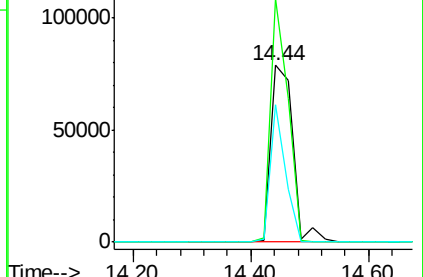
152 53.7 44.2 66.2

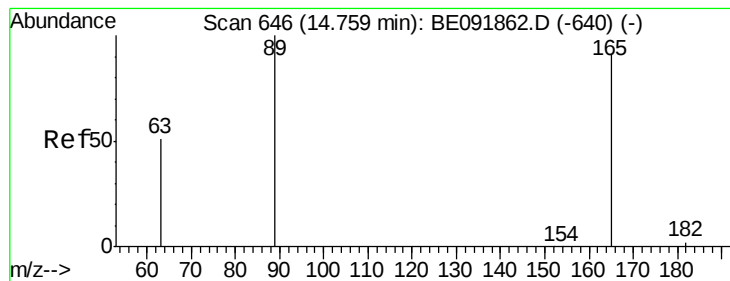


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#21

2,4-Dinitrotoluene

Concen: 12.54 ng

RT: 14.76 min Scan# 646

Delta R.T. -0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:165 Resp: 85535

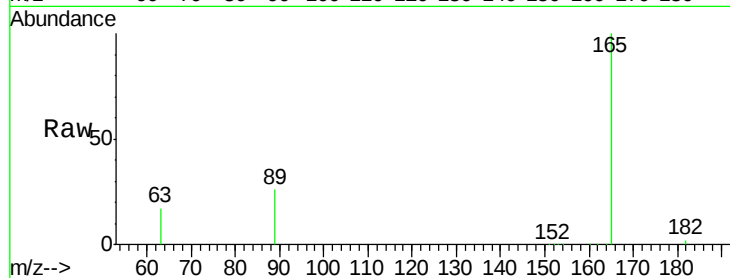
Ion Ratio Lower Upper

165 100

63 0.0 0.0 0.0

89 0.0 99.8 149.8#

182 2.3 0.0 0.0#

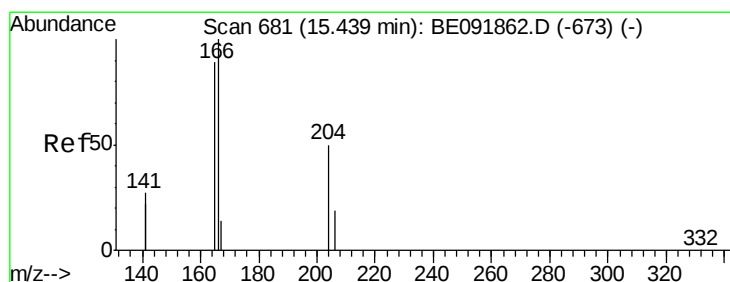
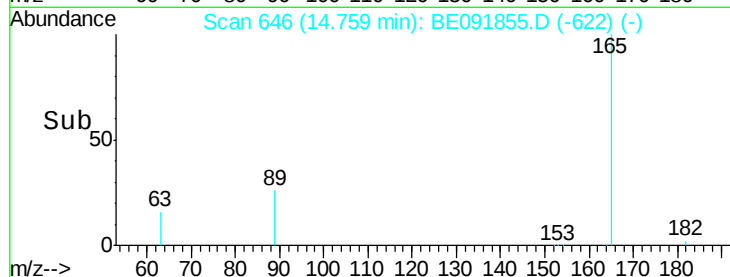
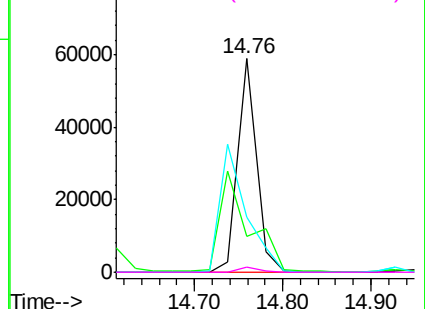


Abundance Ion 165.00 (164.70 to 165.70): E

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



#22

Fluorene

Concen: 9.78 ng

RT: 15.44 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

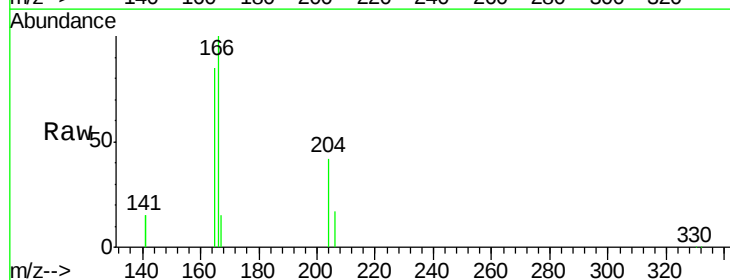
Tgt Ion:166 Resp: 271700

Ion Ratio Lower Upper

166 100

165 98.1 78.6 117.8

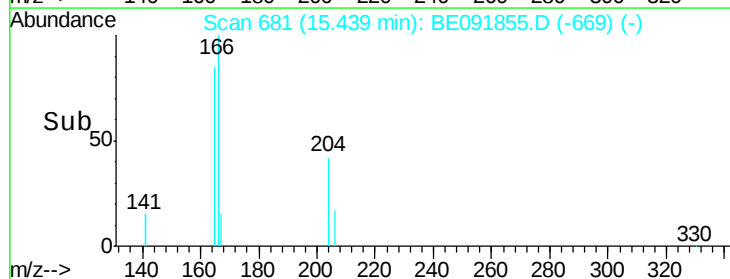
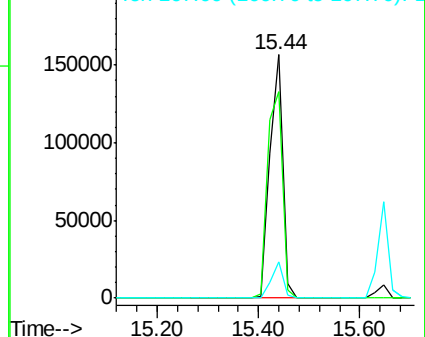
167 13.5 10.8 16.2

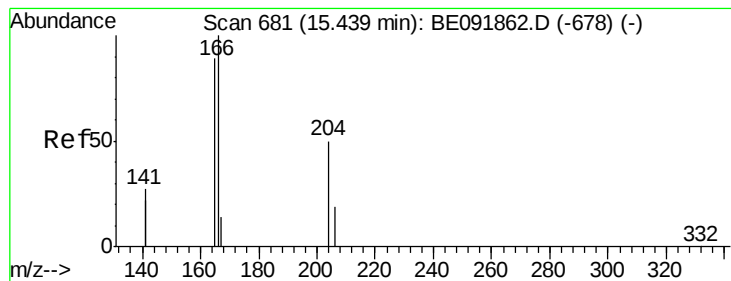


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#23

4-Chlorophenyl-phenylether

Concen: 9.33 ng

RT: 15.44 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

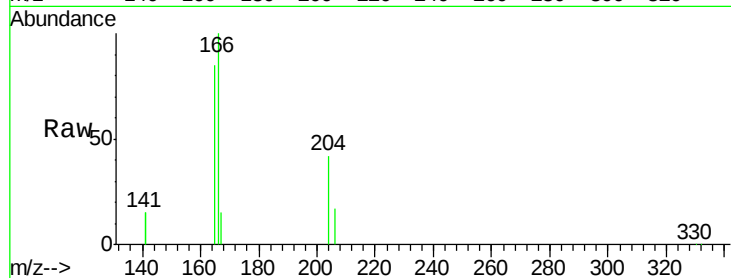
Tot Ion:204 Resp: 126851

Ion Ratio Lower Upper

204 100

206 34.4 27.8 41.6

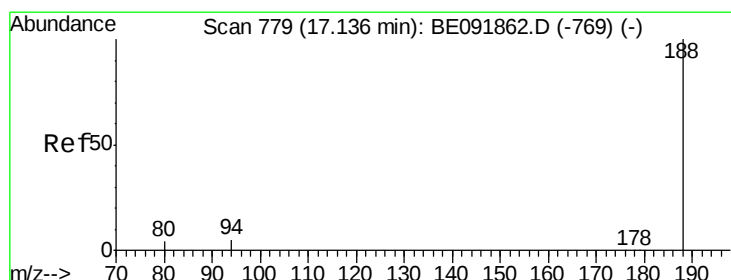
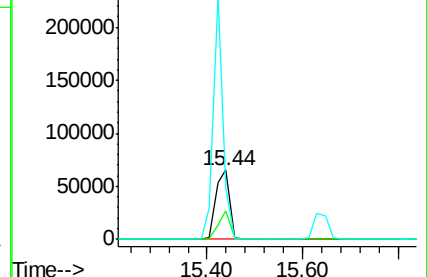
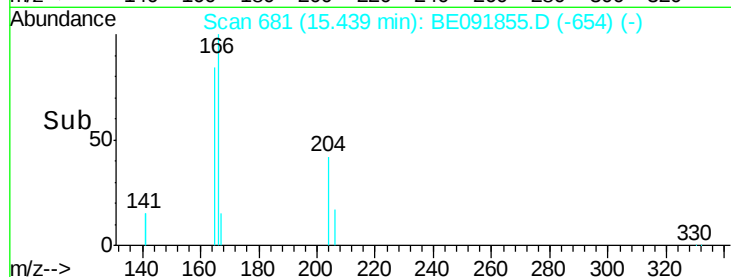
141 251.9 197.6 296.4



Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E



#24

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.14 min Scan# 779

Delta R.T. 0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

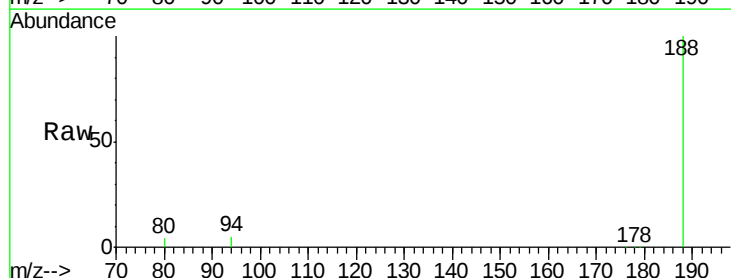
Tgt Ion:188 Resp: 261970

Ion Ratio Lower Upper

188 100

94 5.1 4.1 6.1

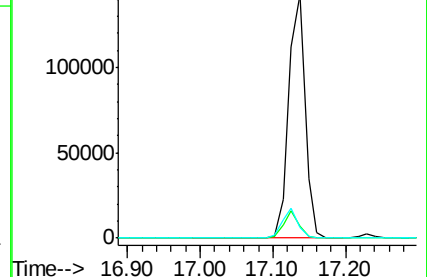
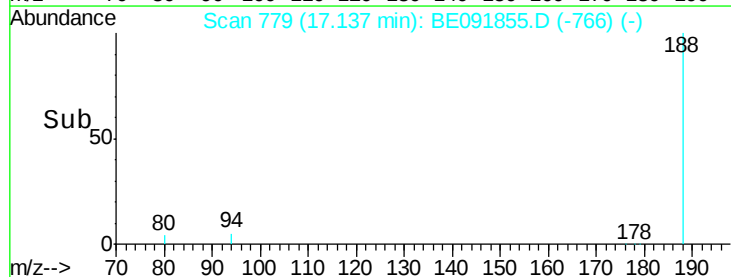
80 4.1 3.4 5.2

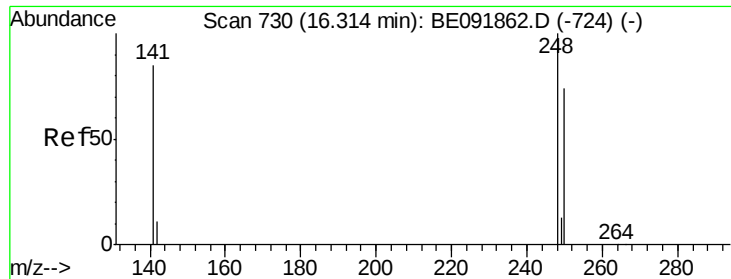


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

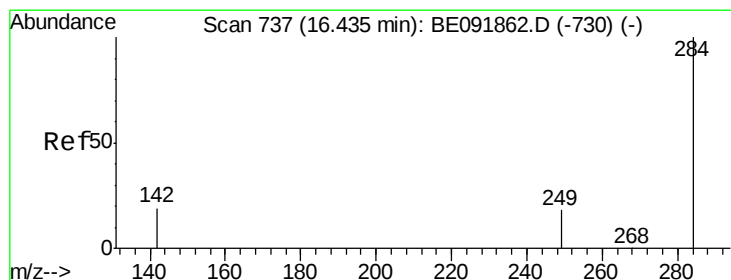
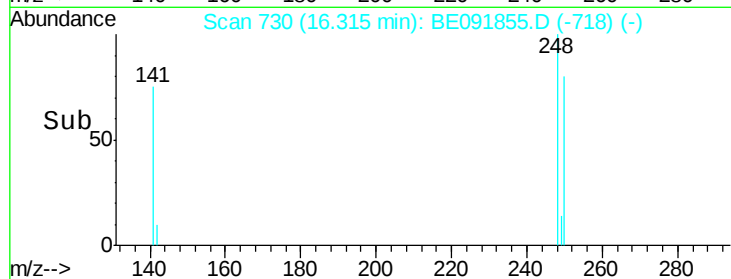
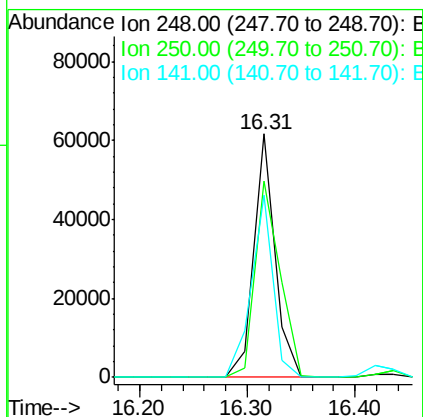
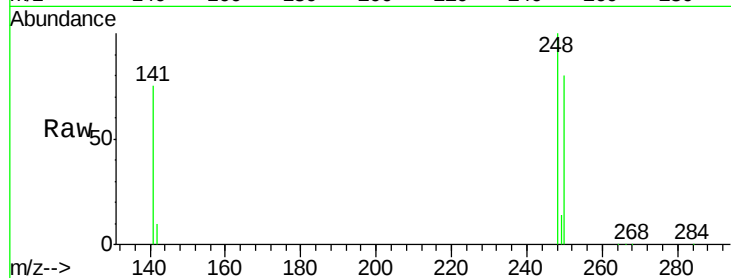




#25  
4-Bromophenyl-phenylether  
Concen: 9.83 ng  
RT: 16.31 min Scan# 730  
Delta R.T. 0.00 min  
Lab File: BE091855.D  
Acq: 25 May 2016 12:29

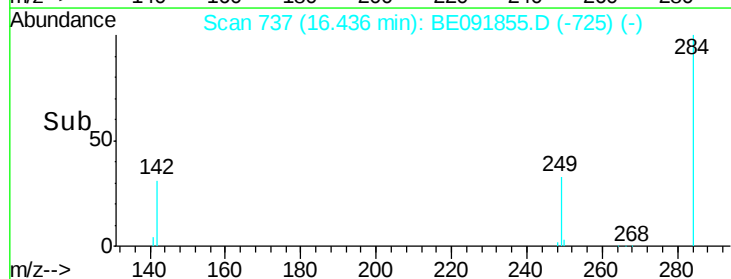
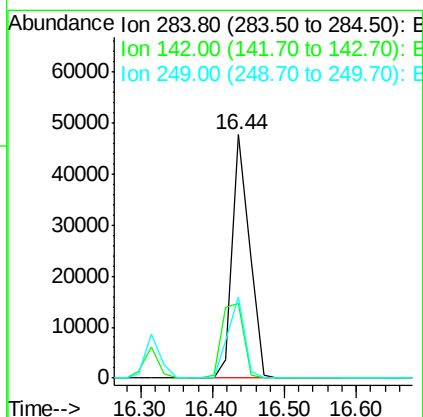
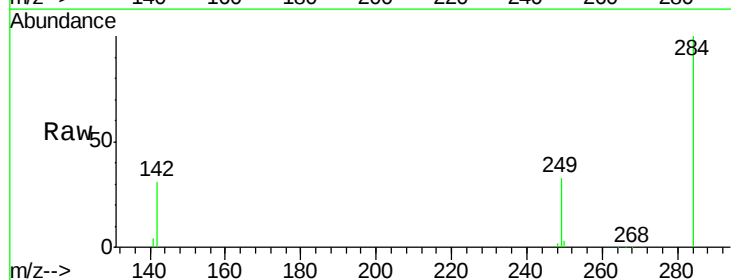
Instrument :  
BNA\_E  
ClientSampleId :

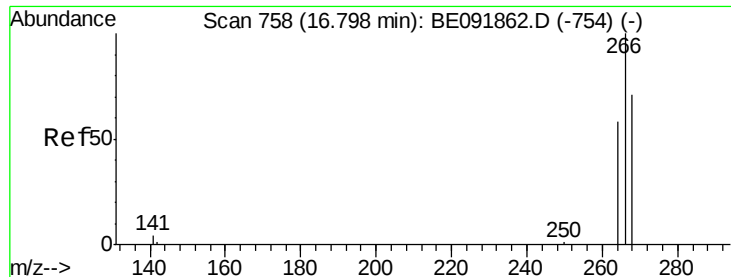
Tot Ion:248 Resp: 84323  
Ion Ratio Lower Upper  
248 100  
250 94.2 75.7 113.5  
141 76.6 64.6 97.0



#26  
Hexachlorobenzene  
Concen: 9.50 ng  
RT: 16.44 min Scan# 737  
Delta R.T. 0.00 min  
Lab File: BE091855.D  
Acq: 25 May 2016 12:29

Tgt Ion:284 Resp: 77768  
Ion Ratio Lower Upper  
284 100  
142 39.2 31.4 47.2  
249 32.7 25.3 37.9





#27

Pentachlorophenol

Concen: 12.72 ng

RT: 16.78 min Scan# 757

Delta R.T. -0.02 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

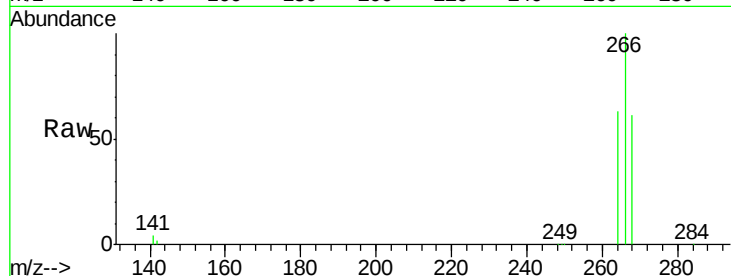
Tot Ion:266 Resp: 46427

Ion Ratio Lower Upper

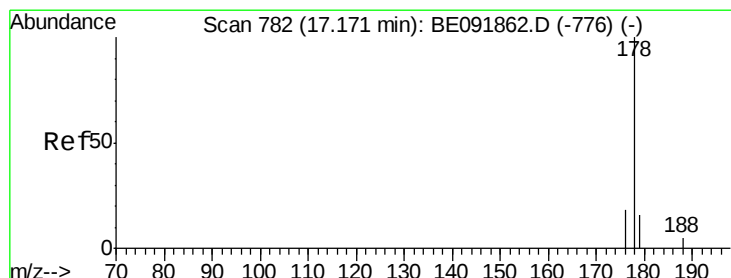
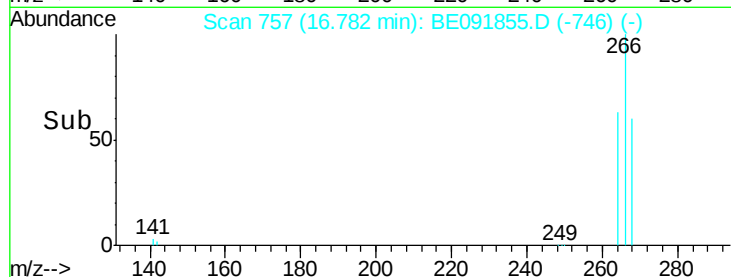
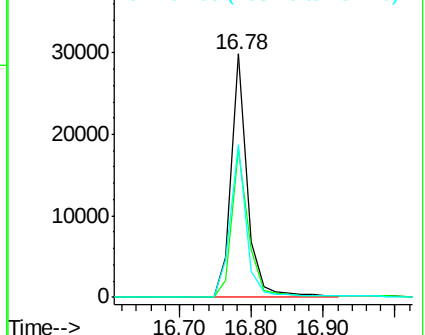
266 100

268 60.5 60.5 90.7

264 62.7 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: 9.39 ng

RT: 17.17 min Scan# 782

Delta R.T. 0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

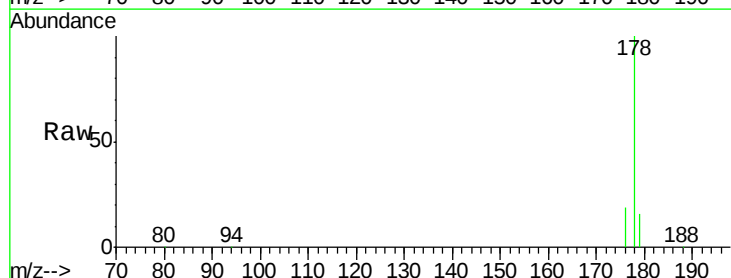
Tgt Ion:178 Resp: 466957

Ion Ratio Lower Upper

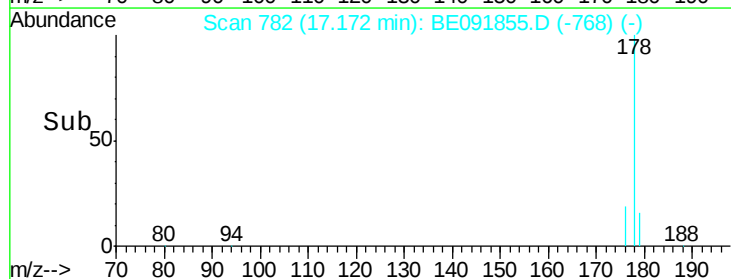
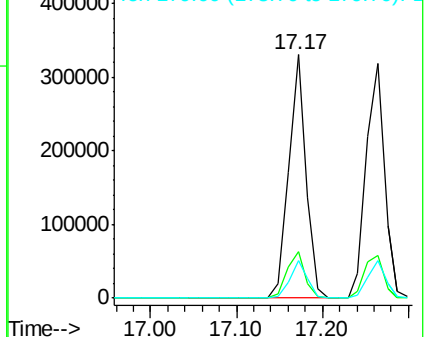
178 100

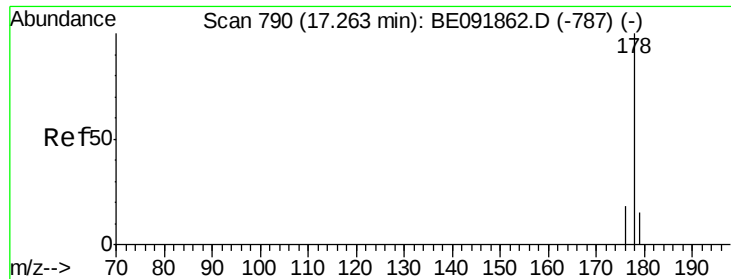
176 19.6 15.4 23.2

179 15.4 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: 9.96 ng

RT: 17.26 min Scan# 790

Delta R.T. 0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

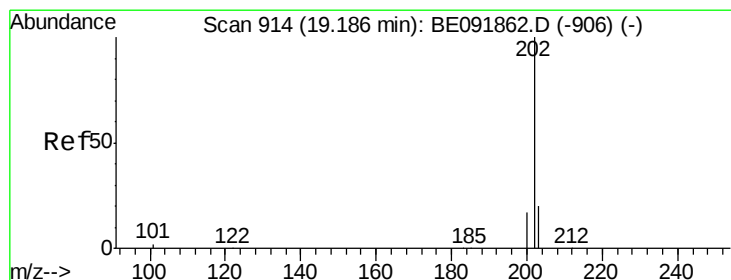
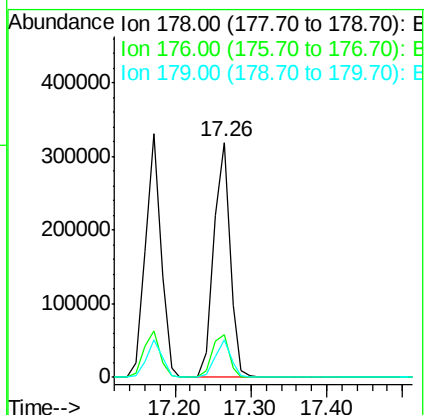
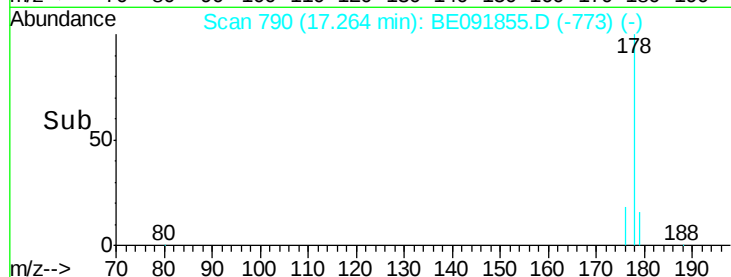
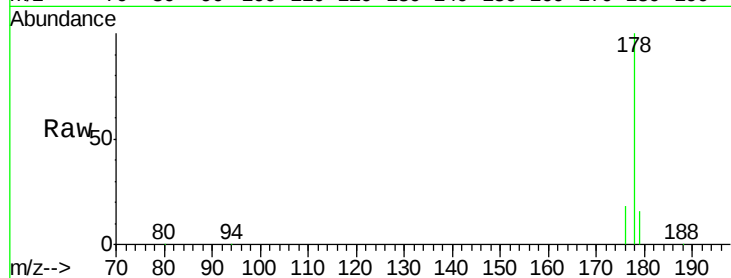
Tot Ion:178 Resp: 474500

Ion Ratio Lower Upper

178 100

176 19.2 15.1 22.7

179 15.3 12.1 18.1



#30

Fluoranthene

Concen: 9.42 ng

RT: 19.19 min Scan# 914

Delta R.T. -0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

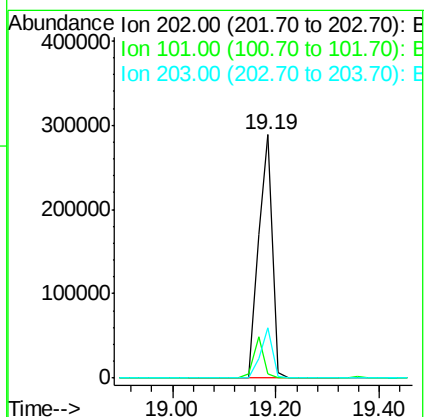
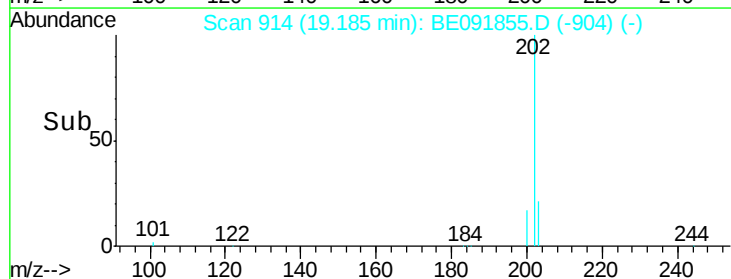
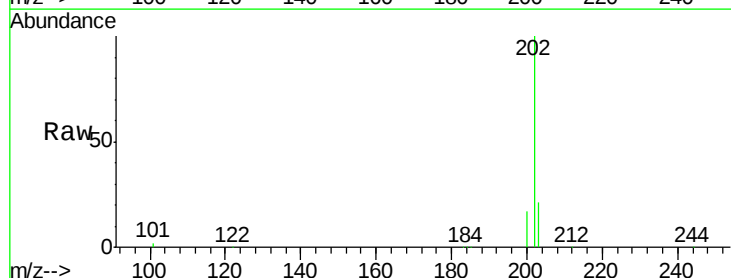
Tgt Ion:202 Resp: 542220

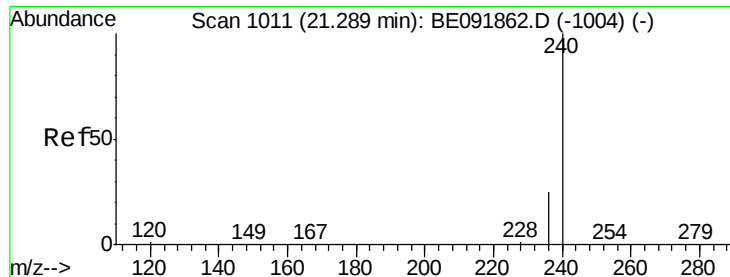
Ion Ratio Lower Upper

202 100

101 12.6 9.4 14.0

203 17.9 14.3 21.5

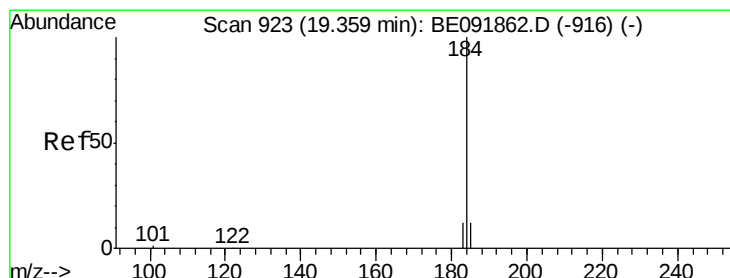
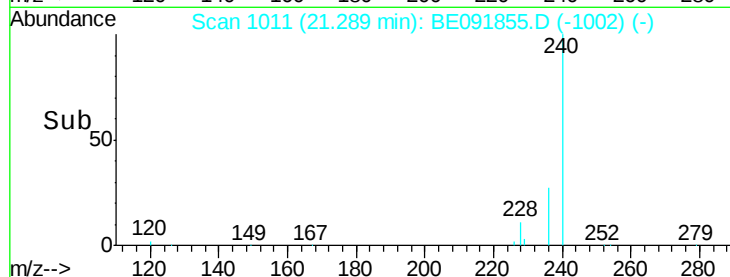
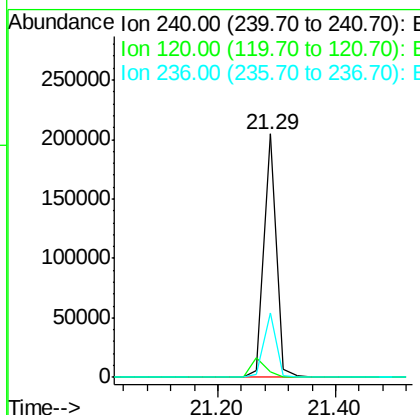
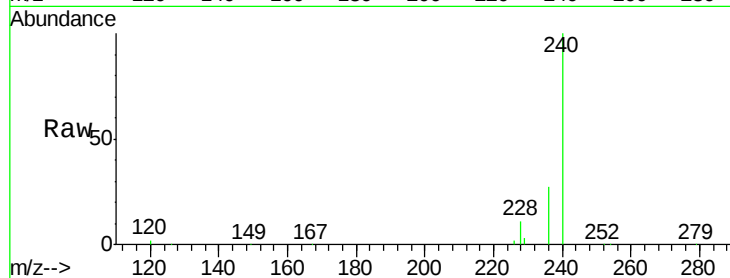




#31  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 21.29 min Scan# 1011  
 Delta R.T. -0.00 min  
 Lab File: BE091855.D  
 Acq: 25 May 2016 12:29

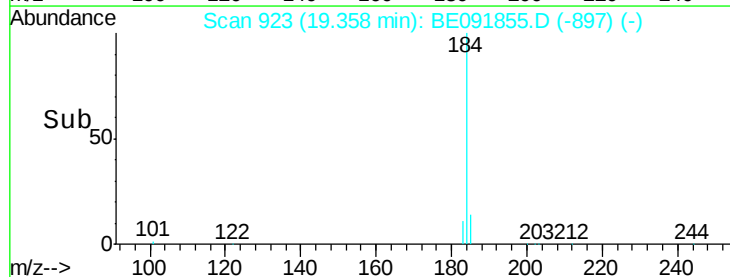
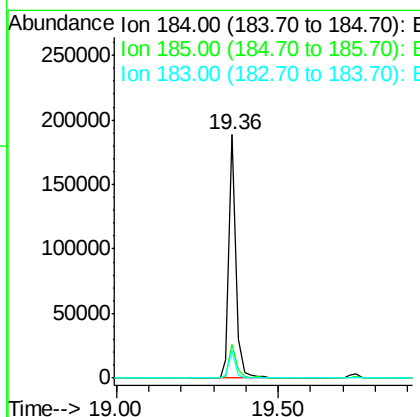
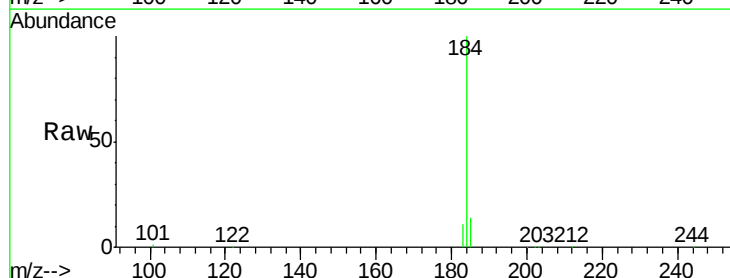
Instrument :  
 BNA\_E  
 ClientSampleId :

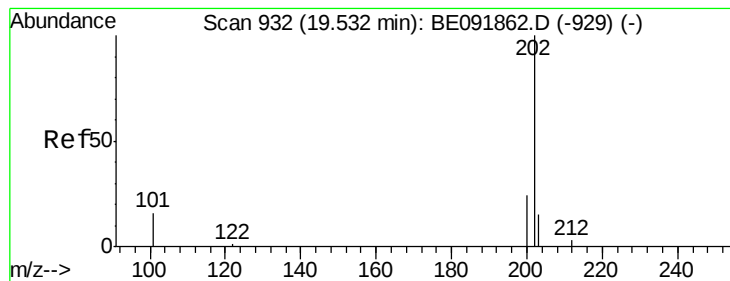
Tot Ion:240 Resp: 303819  
 Ion Ratio Lower Upper  
 240 100  
 120 2.2 1.2 1.8#  
 236 26.7 19.8 29.8



#32  
 Benzidine  
 Concen: 11.82 ng  
 RT: 19.36 min Scan# 923  
 Delta R.T. -0.00 min  
 Lab File: BE091855.D  
 Acq: 25 May 2016 12:29

Tgt Ion:184 Resp: 282236  
 Ion Ratio Lower Upper  
 184 100  
 185 13.8 11.4 17.2  
 183 11.1 11.8 17.6#





#33

Pvrene

Concen: 9.81 ng

RT: 19.53 min Scan# 932

Delta R.T. -0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

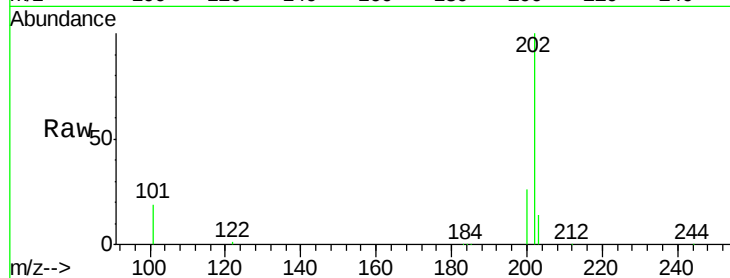
Tot Ion:202 Resp: 571227

Ion Ratio Lower Upper

202 100

200 21.7 16.9 25.3

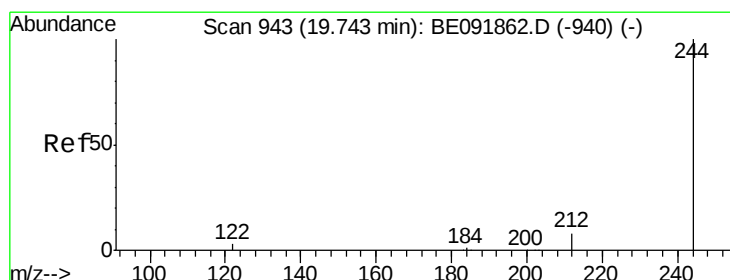
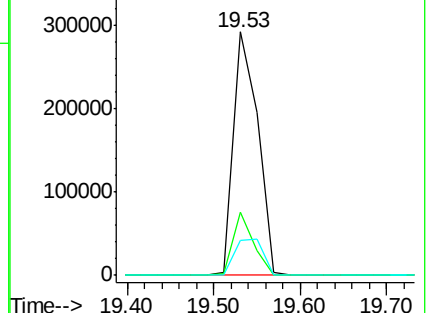
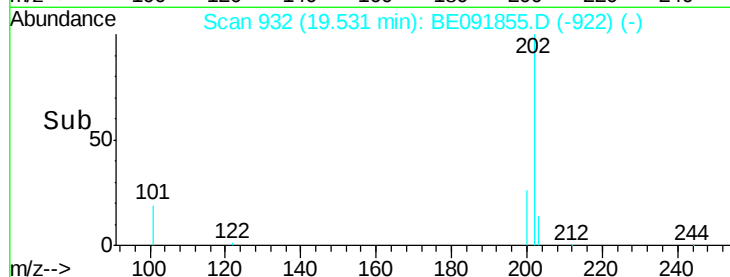
203 17.8 14.1 21.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#34

Terphenyl-d14

Concen: 9.61 ng

RT: 19.74 min Scan# 943

Delta R.T. -0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

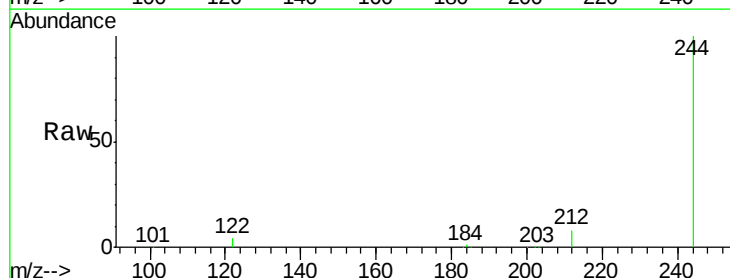
Tgt Ion:244 Resp: 400330

Ion Ratio Lower Upper

244 100

212 8.4 6.5 9.7

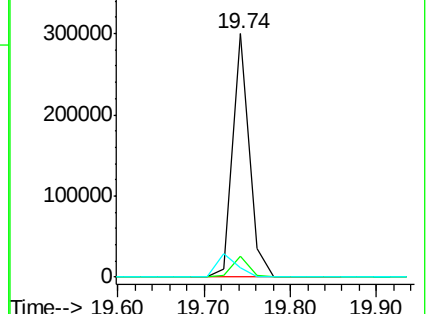
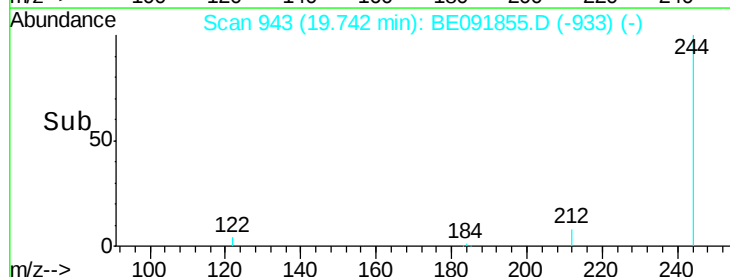
122 3.6 2.9 4.3

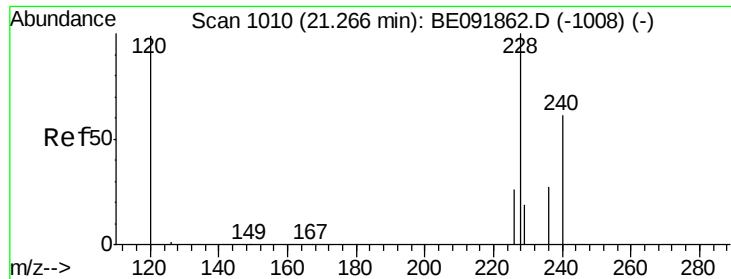


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

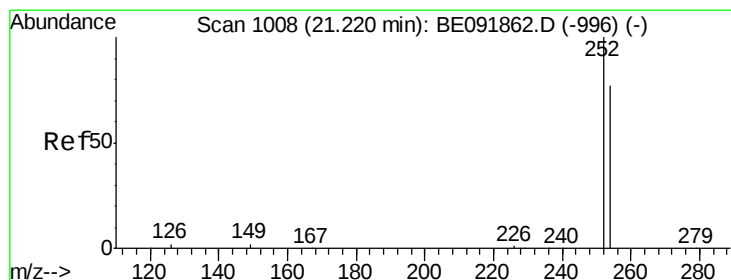
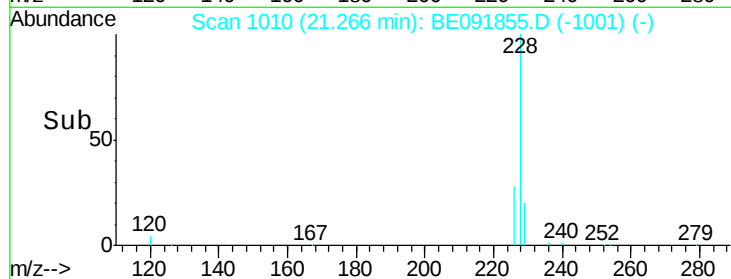
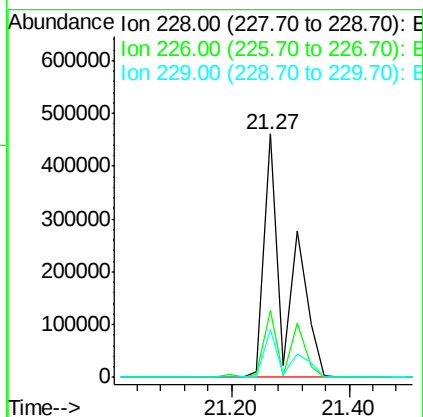
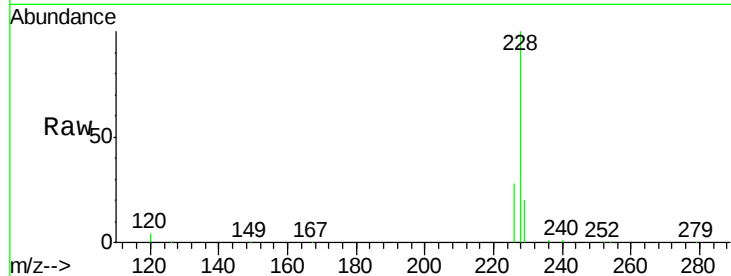




#35  
Benzo(a)anthracene  
Concen: 12.28 ng  
RT: 21.27 min Scan# 1010  
Delta R.T. -0.00 min  
Lab File: BE091855.D  
Acq: 25 May 2016 12:29

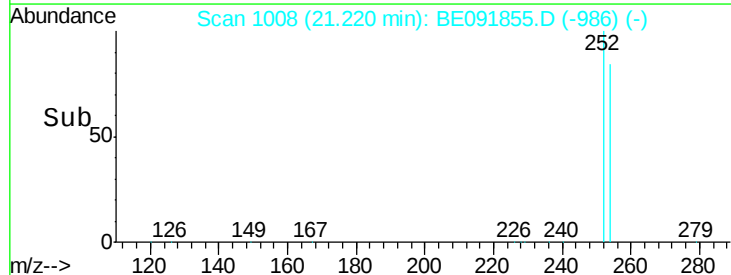
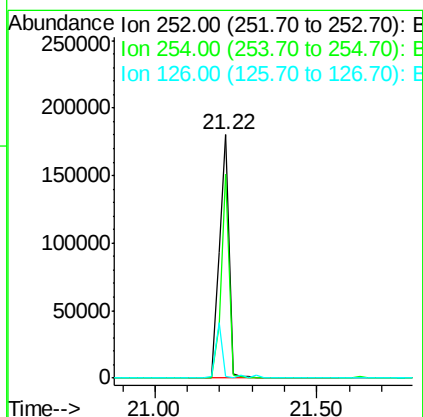
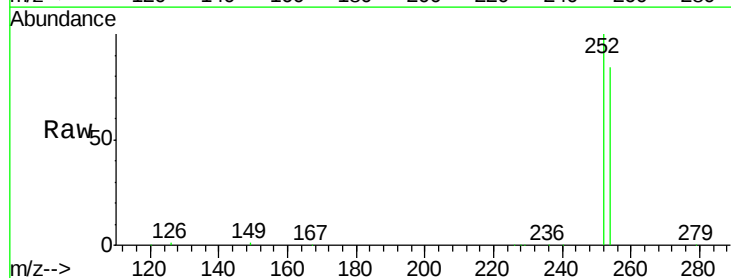
Instrument :  
BNA\_E  
ClientSampleId :

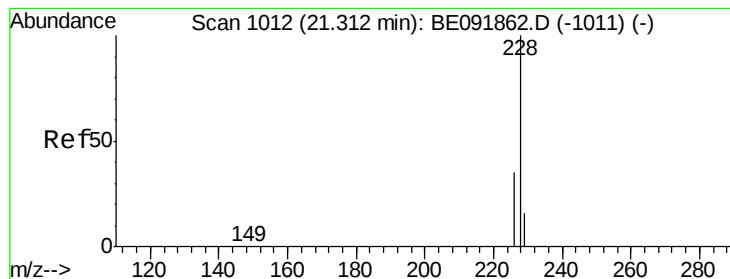
Tot Ion:228 Resp: 1213894  
Ion Ratio Lower Upper  
228 100  
226 27.7 21.0 31.4  
229 19.6 15.8 23.8



#36  
3,3'-Dichlorobenzidine  
Concen: 9.83 ng  
RT: 21.22 min Scan# 1008  
Delta R.T. -0.00 min  
Lab File: BE091855.D  
Acq: 25 May 2016 12:29

Tgt Ion:252 Resp: 389729  
Ion Ratio Lower Upper  
252 100  
254 83.6 61.5 92.3  
126 0.5 2.5 3.7#





#37

Chrysene

Concen: 12.52 ng

RT: 21.27 min Scan# 1010

Delta R.T. -0.05 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

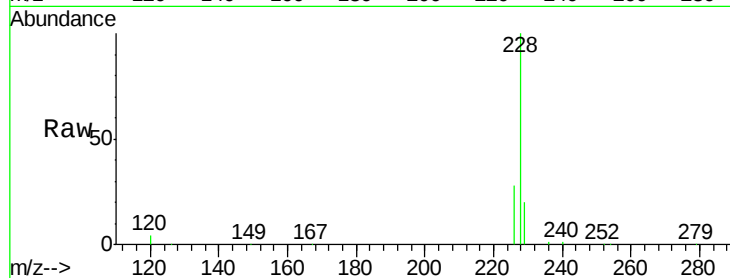
Tot Ion:228 Resp: 1216789

Ion Ratio Lower Upper

228 100

226 27.7 27.0 40.6

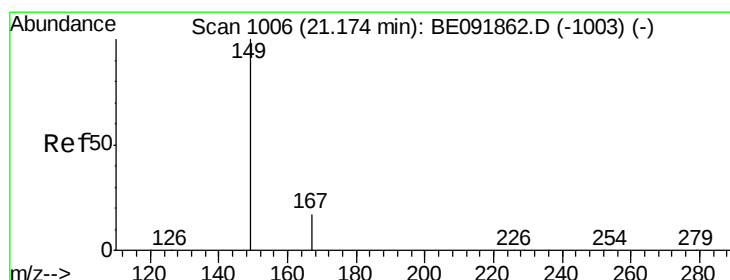
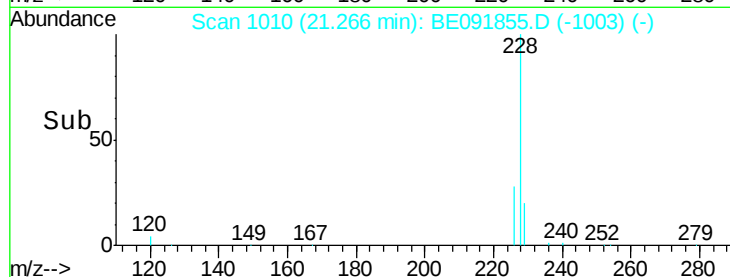
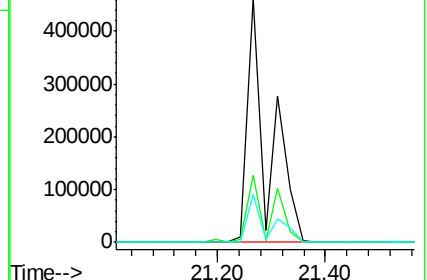
229 19.6 13.8 20.8



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: 10.31 ng

RT: 21.17 min Scan# 1006

Delta R.T. -0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

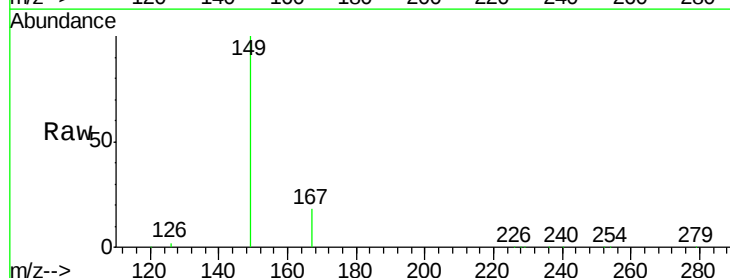
Tgt Ion:149 Resp: 266592

Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

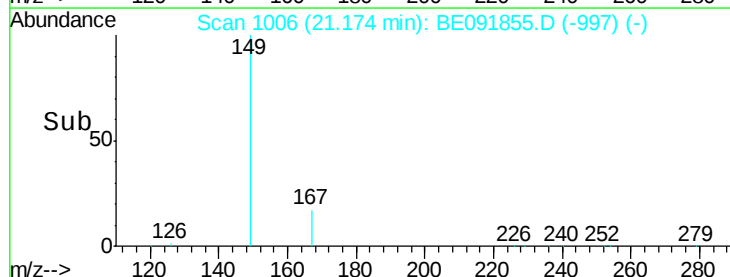
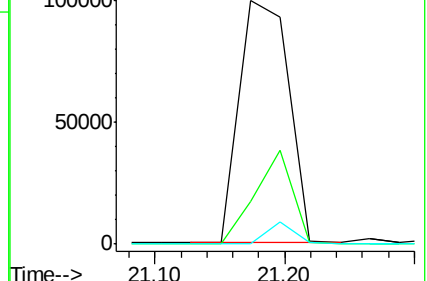
279 0.0 0.0 0.0

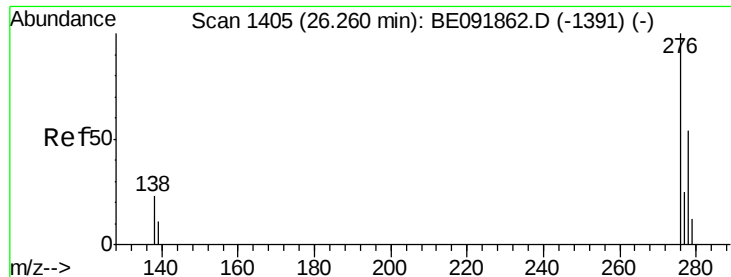


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Indeno(1,2,3-cd)pyrene

Concen: 9.77 ng

RT: 26.26 min Scan# 1405

Delta R.T. 0.00 min

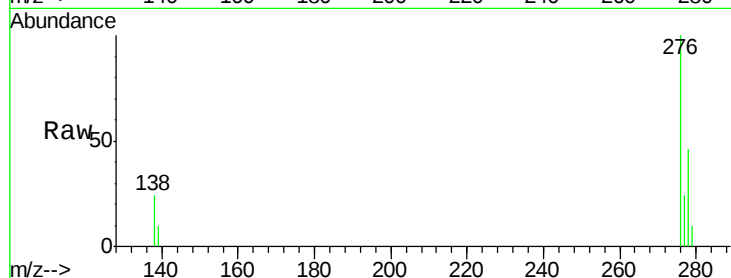
Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :



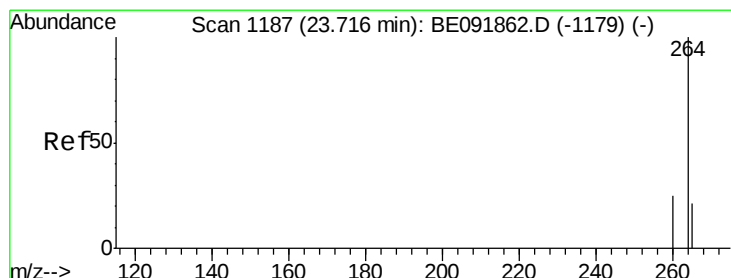
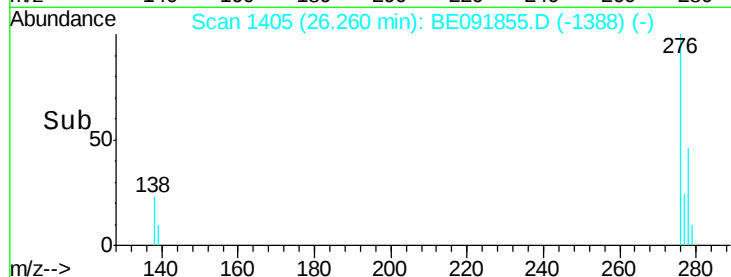
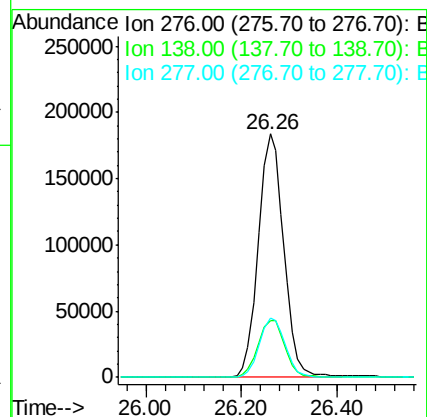
Tot Ion:276 Resp: 677466

Ion Ratio Lower Upper

276 100

138 24.7 19.7 29.5

277 24.8 20.1 30.1



#40

Perylene-d12

Concen: 5.00 ng

RT: 23.71 min Scan# 1187

Delta R.T. -0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

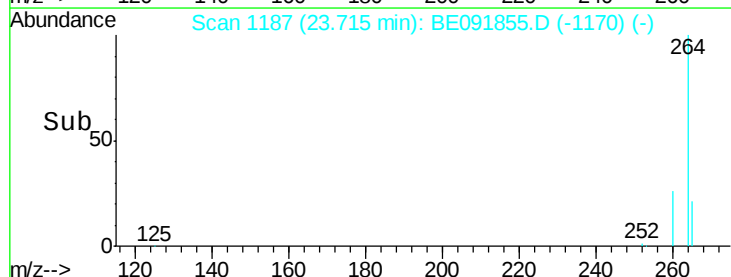
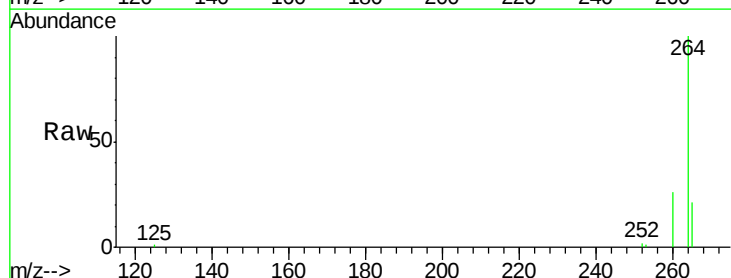
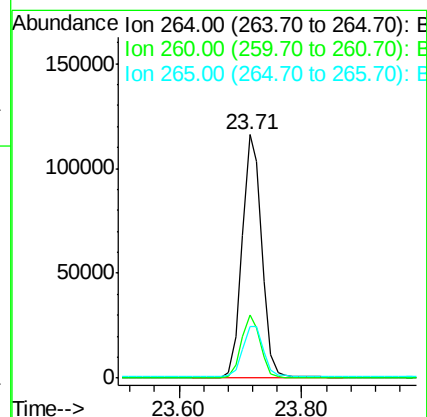
Tgt Ion:264 Resp: 260164

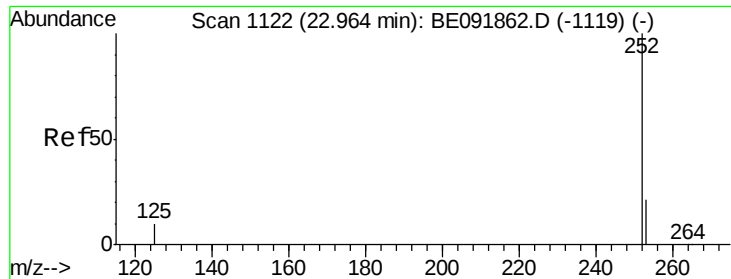
Ion Ratio Lower Upper

264 100

260 26.0 20.3 30.5

265 21.4 17.6 26.4

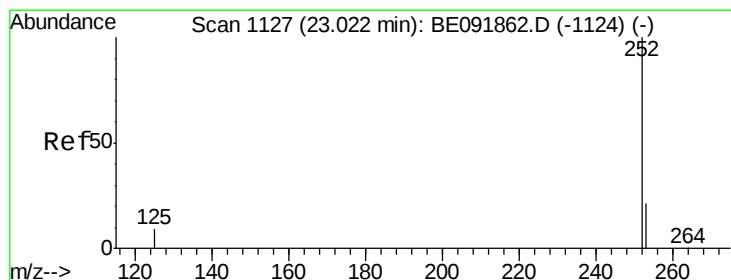
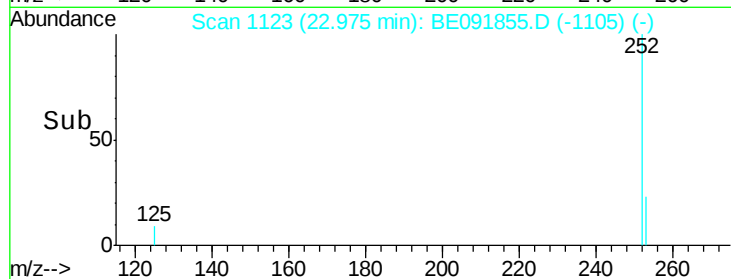
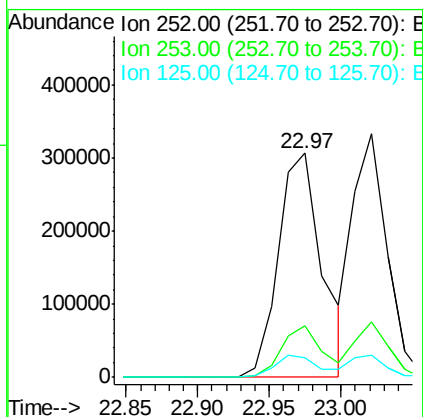
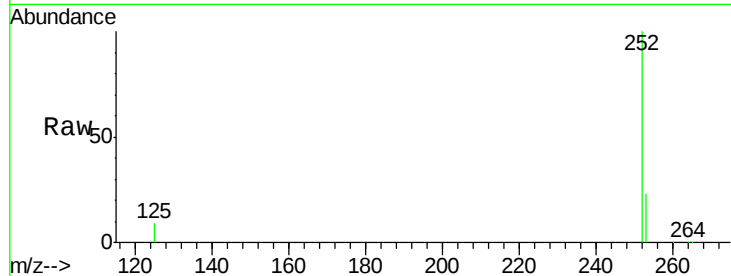




#41  
Benzo(b)fluoranthene  
Concen: 10.27 ng  
RT: 22.97 min Scan# 1123  
Delta R.T. 0.01 min  
Lab File: BE091855.D  
Acq: 25 May 2016 12:29

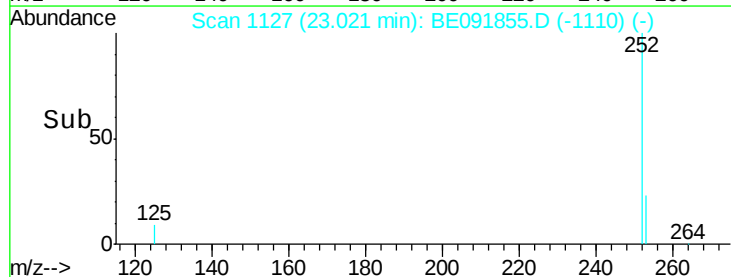
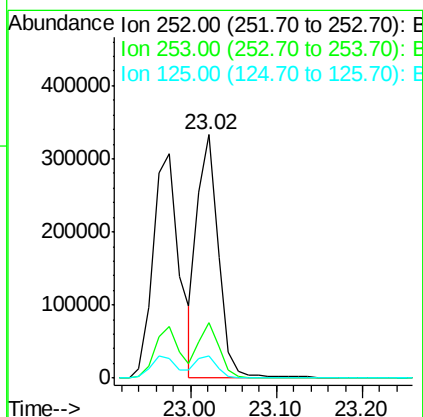
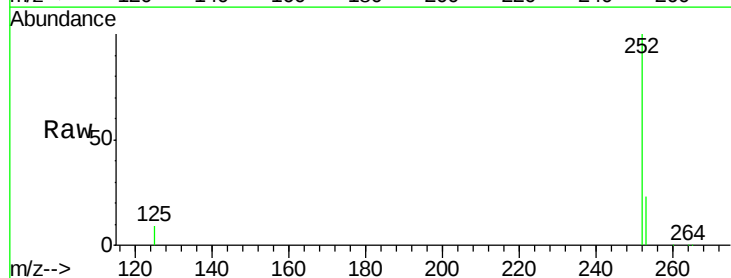
Instrument :  
BNA\_E  
ClientSampleId :

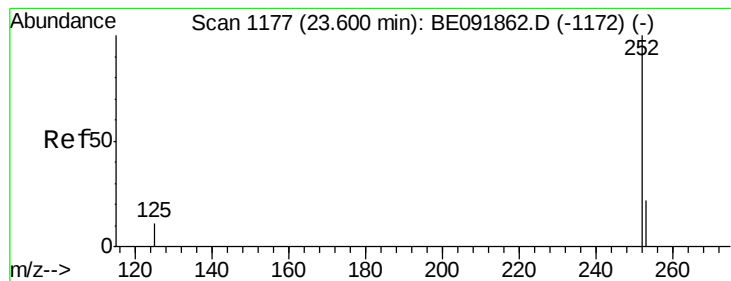
Tot Ion:252 Resp: 647823  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.8 26.6  
125 9.0 9.4 14.2#



#42  
Benzo(k)fluoranthene  
Concen: 9.23 ng  
RT: 23.02 min Scan# 1127  
Delta R.T. -0.00 min  
Lab File: BE091855.D  
Acq: 25 May 2016 12:29

Tgt Ion:252 Resp: 560470  
Ion Ratio Lower Upper  
252 100  
253 22.6 19.4 29.2  
125 9.2 8.3 12.5





#43

Benzo(a)pyrene

Concen: 9.95 ng

RT: 23.60 min Scan# 1177

Delta R.T. -0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :

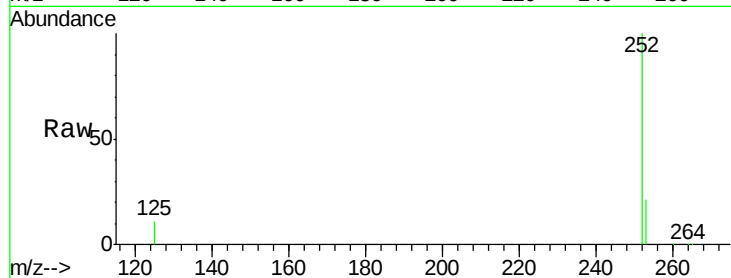
Tot Ion:252 Resp: 589062

Ion Ratio Lower Upper

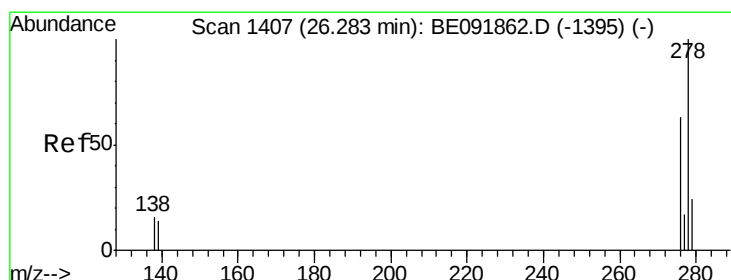
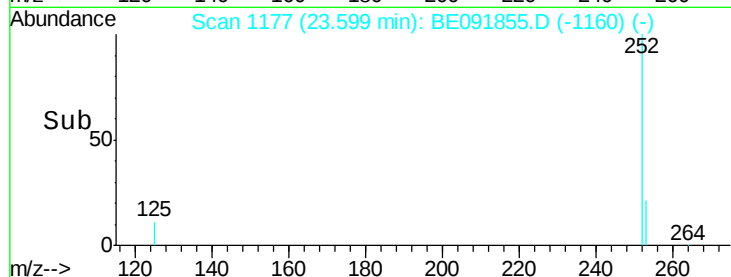
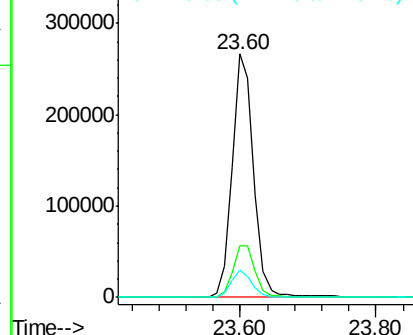
252 100

253 21.3 18.9 28.3

125 11.1 10.5 15.7



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#44

Dibenzo(a,h)anthracene

Concen: 9.87 ng

RT: 26.28 min Scan# 1407

Delta R.T. 0.00 min

Lab File: BE091855.D

Acq: 25 May 2016 12:29

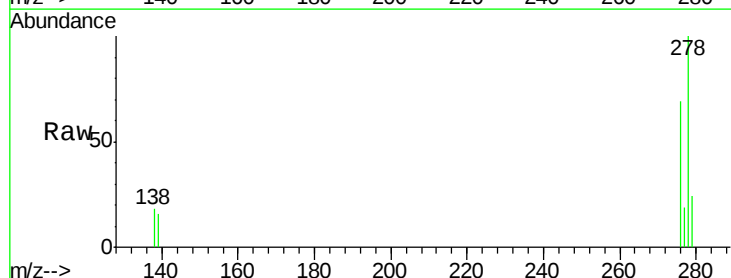
Tgt Ion:278 Resp: 559721

Ion Ratio Lower Upper

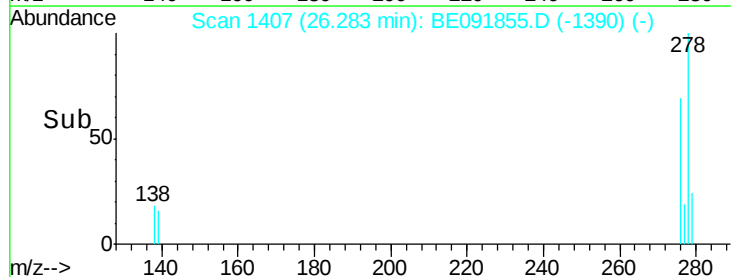
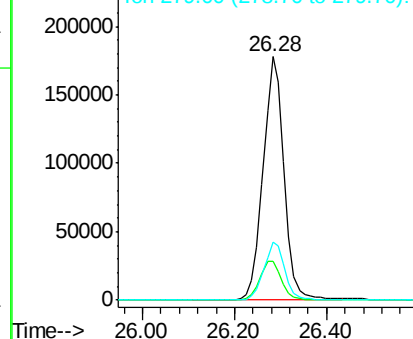
278 100

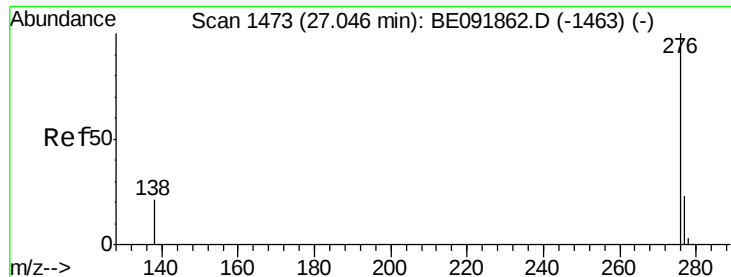
139 16.2 12.6 18.8

279 23.8 20.0 30.0



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#45

Benzo(a,h,i)perylene

Concen: 9.80 ng

RT: 27.05 min Scan# 1473

Delta R.T. 0.00 min

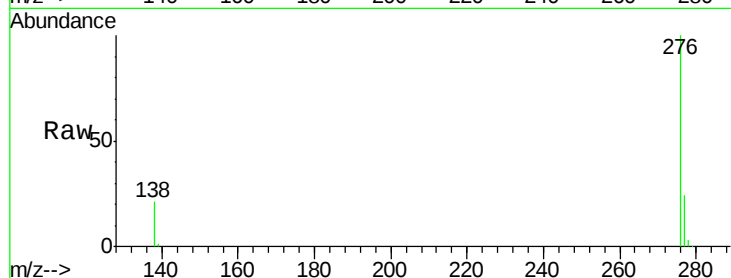
Lab File: BE091855.D

Acq: 25 May 2016 12:29

Instrument :

BNA\_E

ClientSampleId :



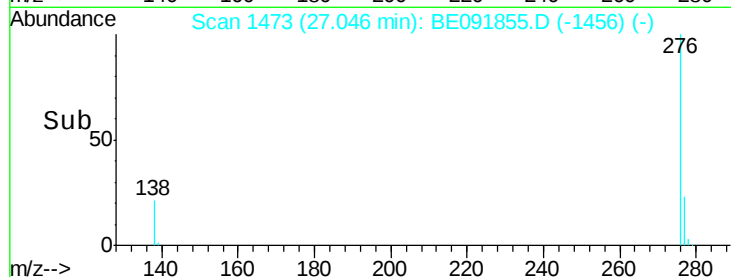
Tot Ion: 276 Resp: 561043

Ion Ratio Lower Upper

276 100

277 23.5 19.5 29.3

138 21.3 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

