

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052317\  
 Data File : BF095351.D  
 Acq On : 23 May 2017 15:09  
 Operator : SJ/MA  
 Sample : I3228-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 24 01:27:19 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 18 17:07:53 2017  
 Response via : Initial Calibration

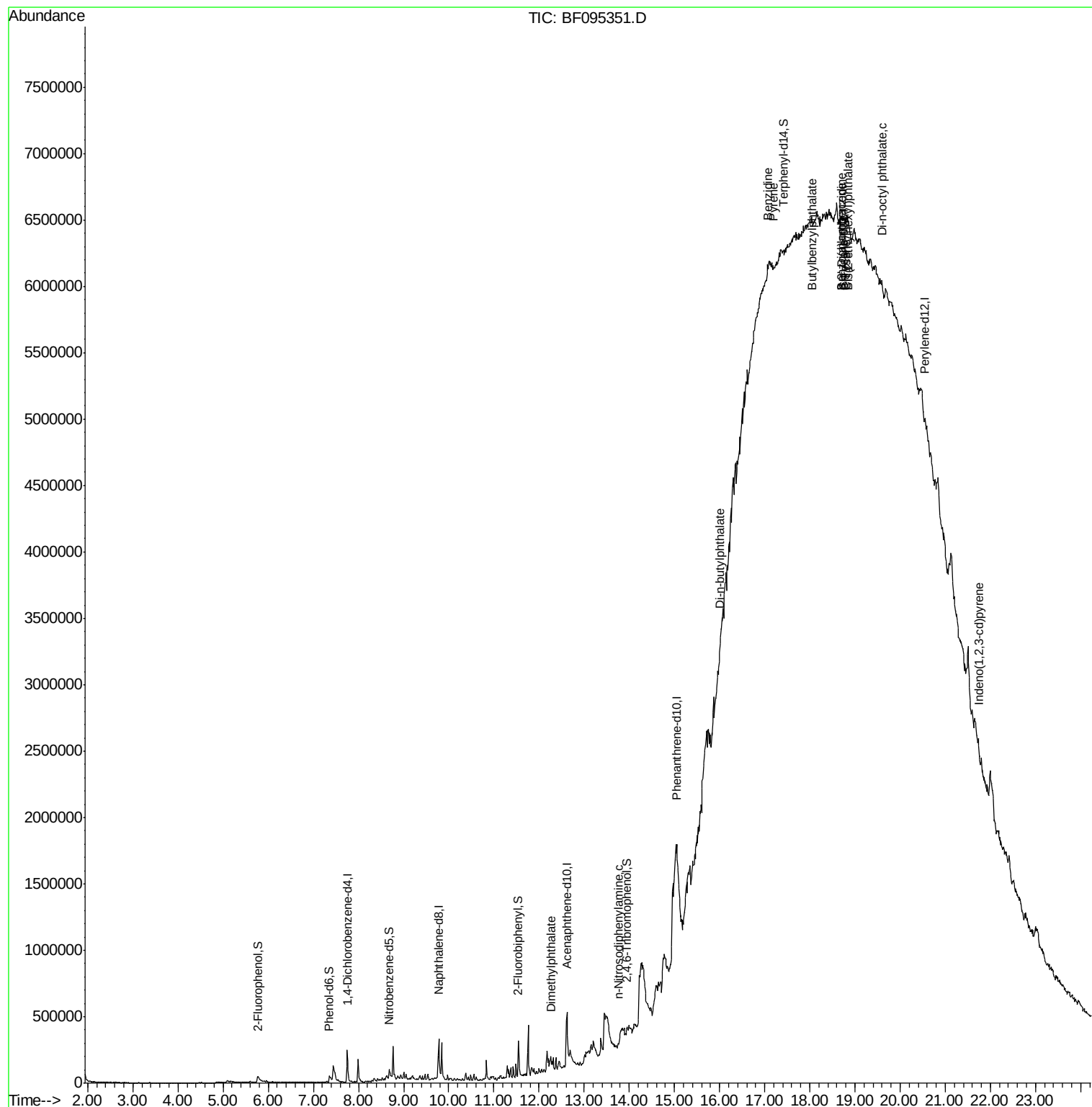
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.75  | 152  | 64563    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 9.78  | 136  | 274085   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 12.61 | 164  | 119960   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 15.05 | 188  | 191440   | 20.00  | ng    | 0.03     |
| 75) Chrysene-d12               | 18.75 | 240  | 990      | 20.00  | ng    | 0.05     |
| 86) Perylene-d12               | 20.55 | 264  | 50364    | 20.00  | ng    | 0.18     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.77  | 112  | 56979    | 14.71  | ng    | 0.03     |
| 7) Phenol-d6                   | 7.35  | 99   | 95819    | 20.62  | ng    | 0.04     |
| 23) Nitrobenzene-d5            | 8.68  | 82   | 49096    | 11.30  | ng    | 0.01     |
| 41) 2,4,6-Tribromophenol       | 13.95 | 330  | 11603    | 11.81  | ng    | 0.04     |
| 44) 2-Fluorobiphenyl           | 11.55 | 172  | 146858   | 17.62  | ng    | -0.01    |
| 78) Terphenyl-d14              | 17.40 | 244  | 9637     | 214.41 | ng    | 0.05     |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate          | 12.25 | 163  | 34444    | 3.50   | ng    | 97       |
| 65) n-Nitrosodiphenylamine     | 13.76 | 169  | 29476    | 4.24   | ng    | 98       |
| 73) Di-n-butylphthalate        | 15.99 | 149  | 58216    | 4.57   | ng    | # 76     |
| 76) Benzidine                  | 17.06 | 184  | 522      | 23.41  | ng    | # 1      |
| 77) Pyrene                     | 17.18 | 202  | 3294     | 44.49  | ng    | # 1      |
| 79) Butylbenzylphthalate       | 18.05 | 149  | 5299     | 153.87 | ng    | # 60     |
| 80) Benzo(a)anthracene         | 18.71 | 228  | 340      | 5.90   | ng    | # 1      |
| 81) 3,3'-Dichlorobenzidine     | 18.70 | 252  | 1749     | 87.89  | ng    | # 1      |
| 82) Chrysene                   | 18.81 | 228  | 818      | 14.68  | ng    | # 1      |
| 83) Bis(2-ethylhexyl)phthalate | 18.86 | 149  | 2648     | 53.97  | ng    | # 61     |
| 84) Di-n-octyl phthalate       | 19.61 | 149  | 2304     | 28.64  | ng    | # 18     |
| 85) Indeno(1,2,3-cd)pyrene     | 21.75 | 276  | 824      | 18.21  | ng    | # 44     |

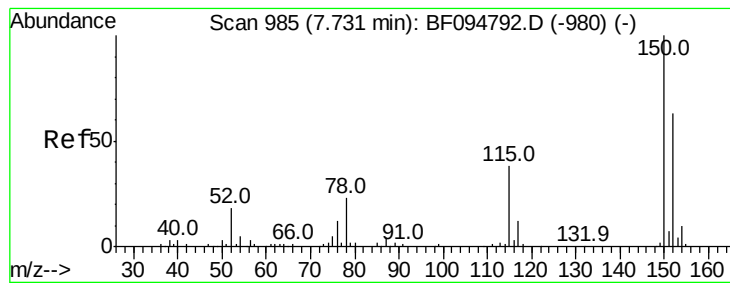
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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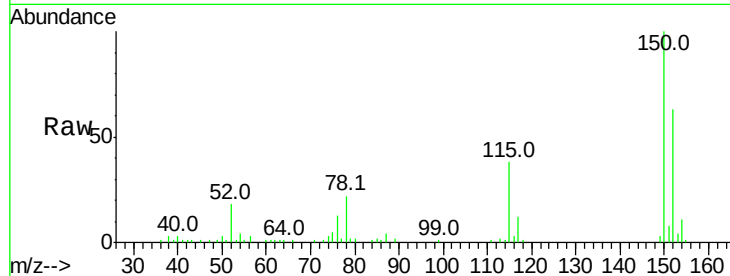


#1

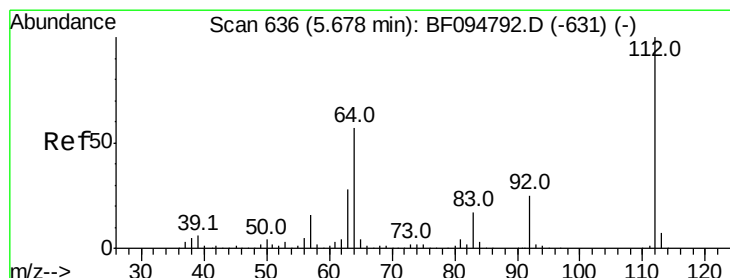
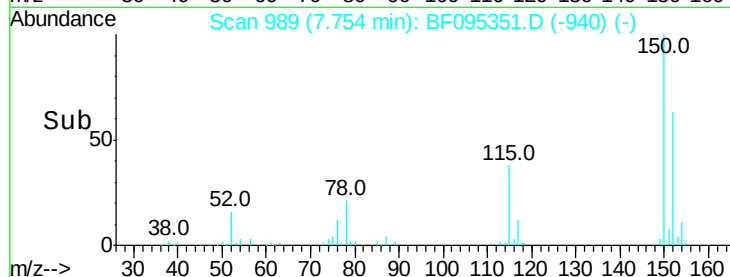
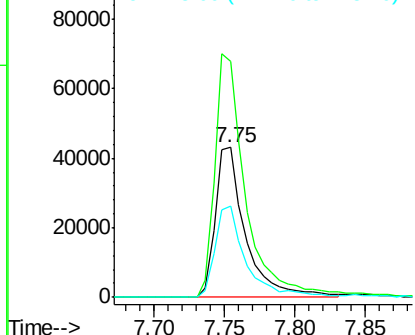
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.75 min Scan# 989  
Delta R.T. -0.01 min  
Lab File: BF095351.D  
Acq: 23 May 2017 15:09

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 64563  
Ion Ratio Lower Upper  
152 100  
150 157.7 126.2 189.2  
115 60.6 52.2 78.2



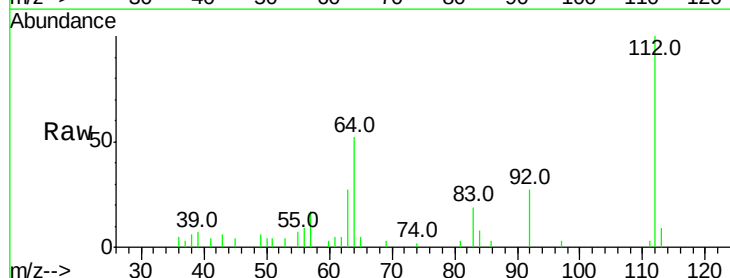
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



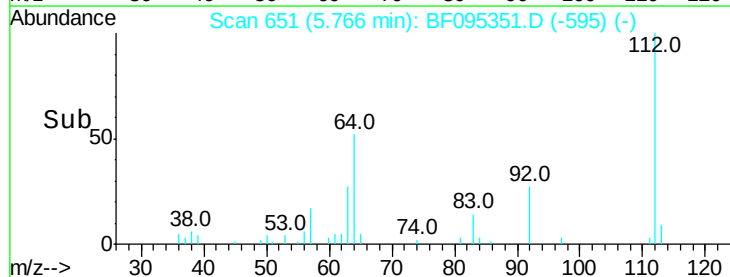
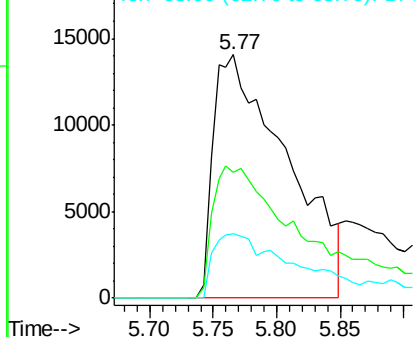
#5

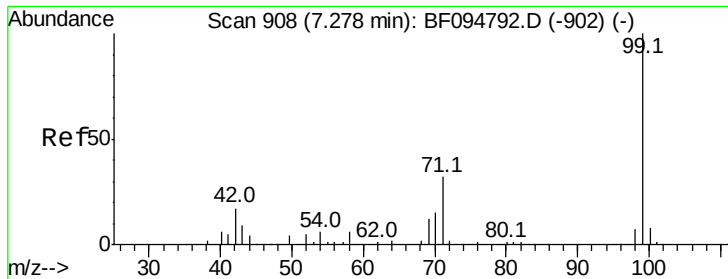
2-Fluorophenol  
Concen: 14.71 ng  
RT: 5.77 min Scan# 651  
Delta R.T. 0.03 min  
Lab File: BF095351.D  
Acq: 23 May 2017 15:09

Tgt Ion:112 Resp: 56979  
Ion Ratio Lower Upper  
112 100  
64 51.8 46.0 69.0  
63 26.7 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 20.62 ng

RT: 7.35 min Scan# 920

Delta R.T. 0.04 min

Lab File: BF095351.D

Acq: 23 May 2017 15:09

Instrument :

BNA\_F

ClientSampleId :

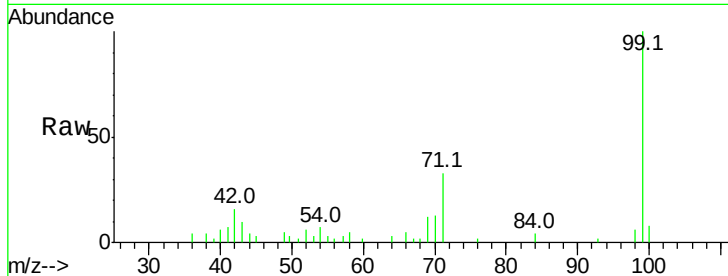
Tot Ion: 99 Resp: 95819

Ion Ratio Lower Upper

99 100

42 15.7 13.5 20.3

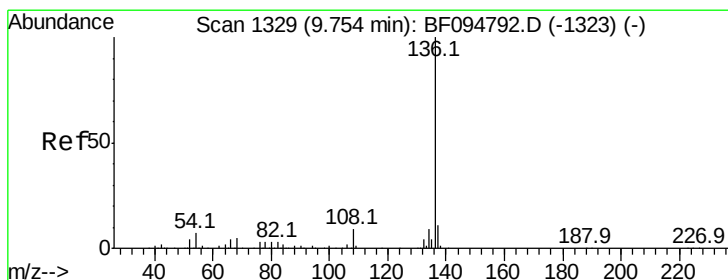
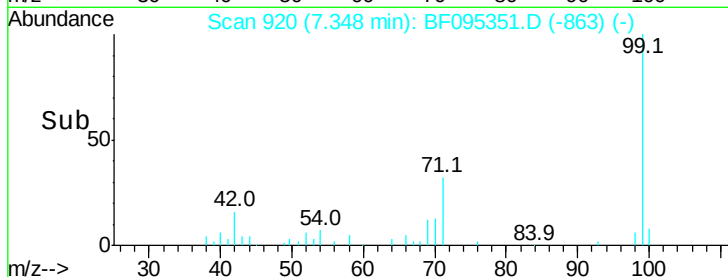
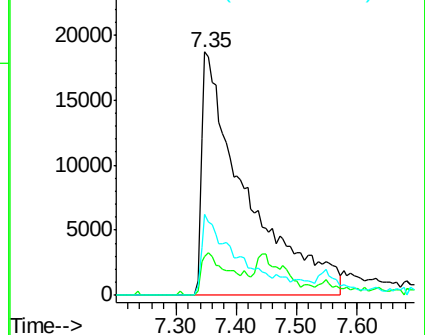
71 33.4 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.78 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF095351.D

Acq: 23 May 2017 15:09

Tgt Ion: 136 Resp: 274085

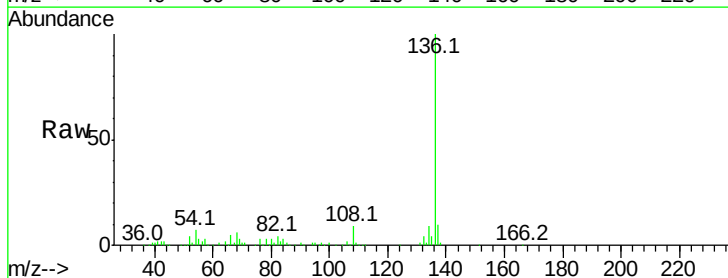
Ion Ratio Lower Upper

136 100

137 10.3 8.5 12.7

54 6.8 4.9 7.3

68 5.7 4.1 6.1

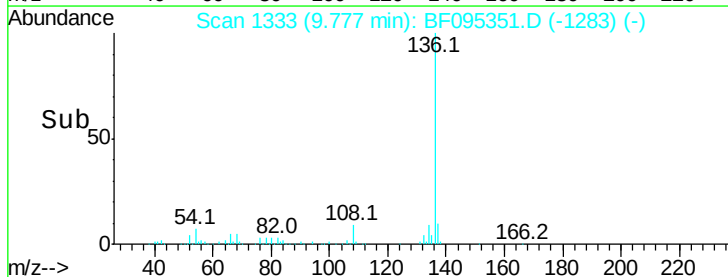
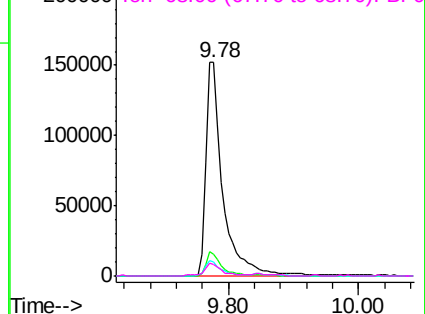


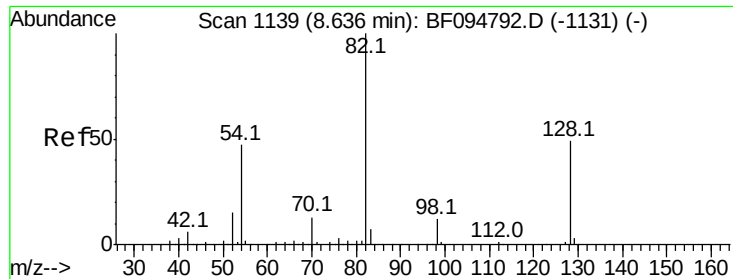
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

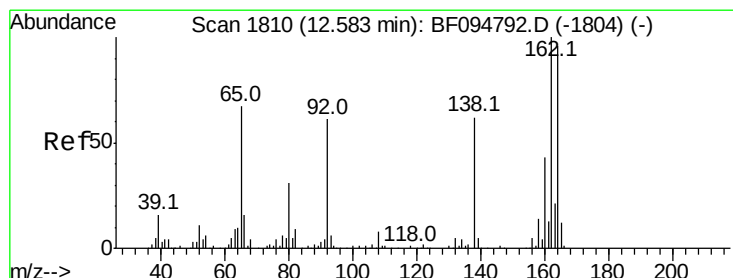
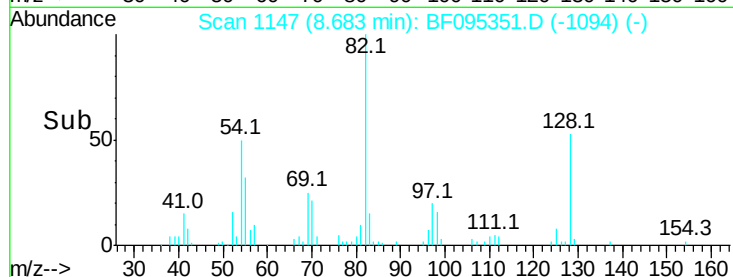
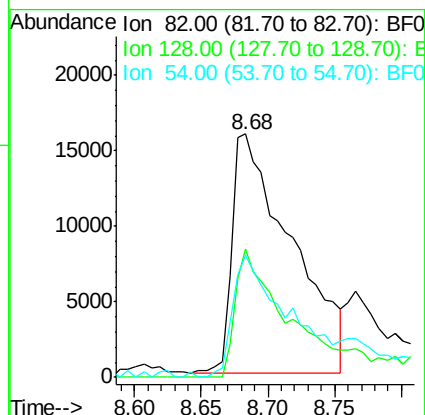
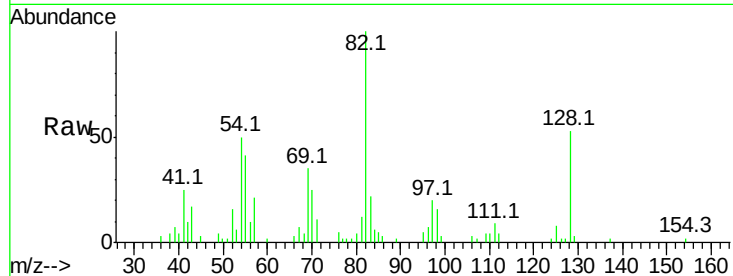




#23  
 Nitrobenzene-d5  
 Concen: 11.30 ng  
 RT: 8.68 min Scan# 1147  
 Delta R.T. 0.01 min  
 Lab File: BF095351.D  
 Acq: 23 May 2017 15:09

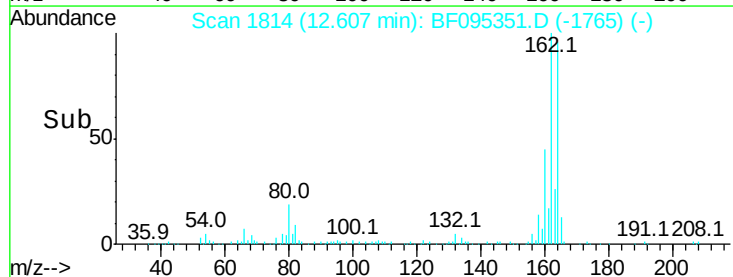
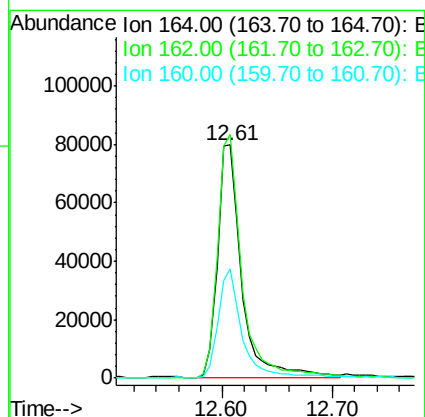
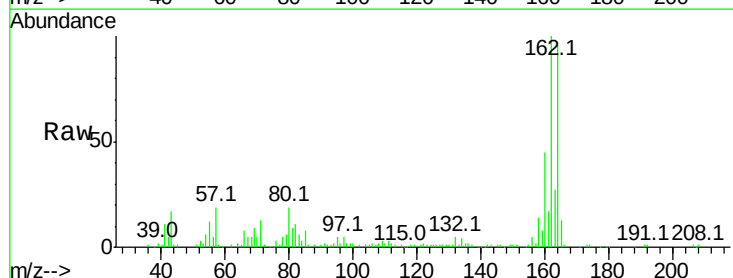
Instrument :  
 BNA\_F  
 ClientSampleId :

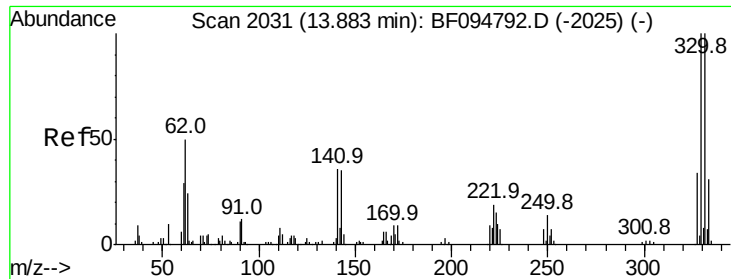
Tot Ion: 82 Resp: 49096  
 Ion Ratio Lower Upper  
 82 100  
 128 52.5 34.0 51.0#  
 54 50.3 42.2 63.2



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.61 min Scan# 1814  
 Delta R.T. -0.01 min  
 Lab File: BF095351.D  
 Acq: 23 May 2017 15:09

Tgt Ion:164 Resp: 119960  
 Ion Ratio Lower Upper  
 164 100  
 162 104.3 82.6 123.8  
 160 46.8 36.2 54.2

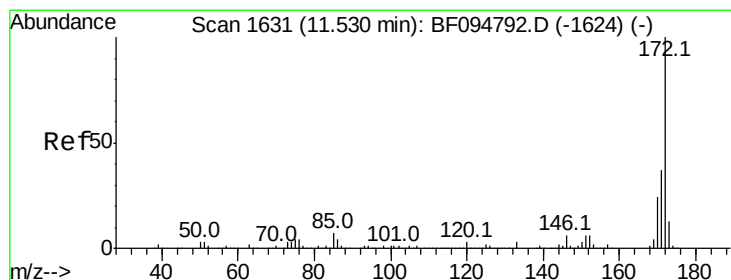
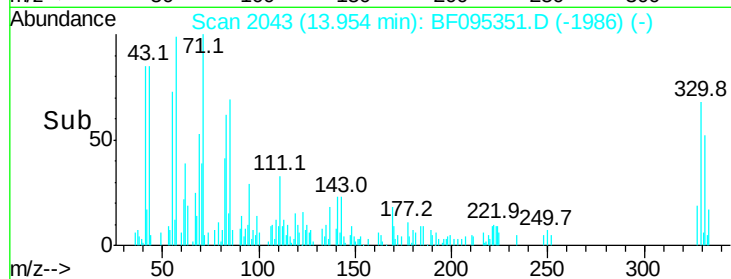
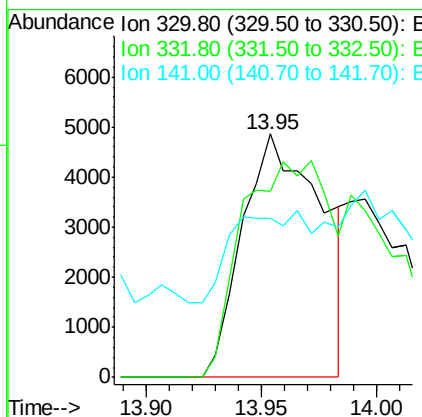
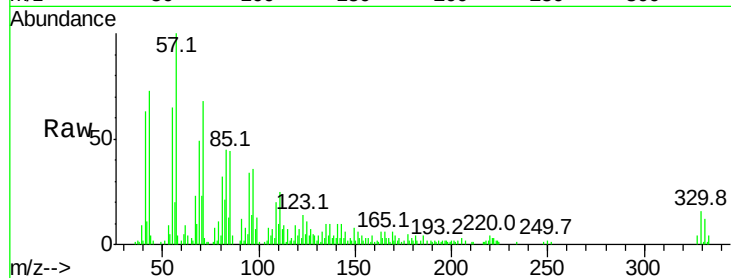




#41  
 2,4,6-Tribromophenol  
 Concen: 11.81 ng  
 RT: 13.95 min Scan# 2043  
 Delta R.T. 0.04 min  
 Lab File: BF095351.D  
 Acq: 23 May 2017 15:09

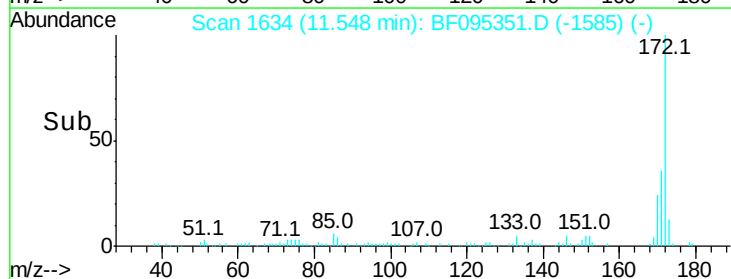
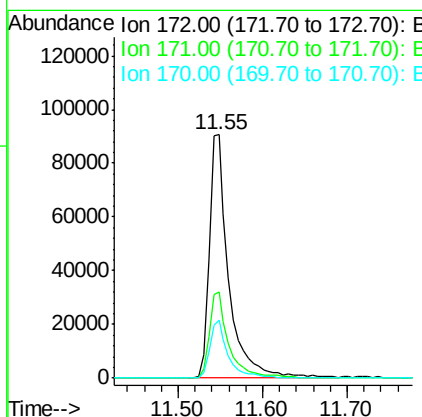
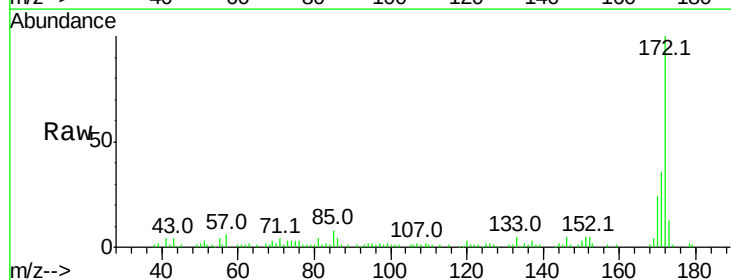
Instrument :  
 BNA\_F  
 ClientSampled :

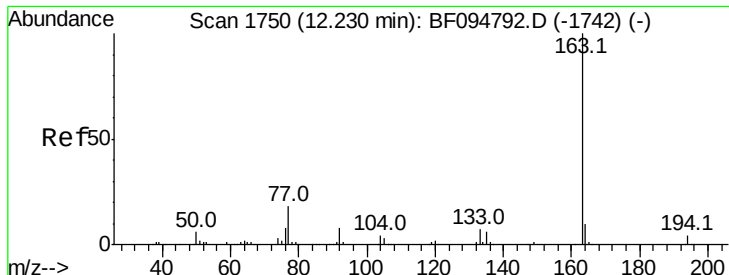
Tot Ion:330 Resp: 11603  
 Ion Ratio Lower Upper  
 330 100  
 332 0.0 76.6 115.0#  
 141 25.6 31.4 47.2#



#44  
 2-Fluorobiphenyl  
 Concen: 17.62 ng  
 RT: 11.55 min Scan# 1634  
 Delta R.T. -0.01 min  
 Lab File: BF095351.D  
 Acq: 23 May 2017 15:09

Tgt Ion:172 Resp: 146858  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 29.6 44.4  
 170 23.9 19.8 29.8





#49

Dimethylphthalate

Concen: 3.50 ng

RT: 12.25 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF095351.D

Acq: 23 May 2017 15:09

Instrument :

BNA\_F

ClientSampleId :

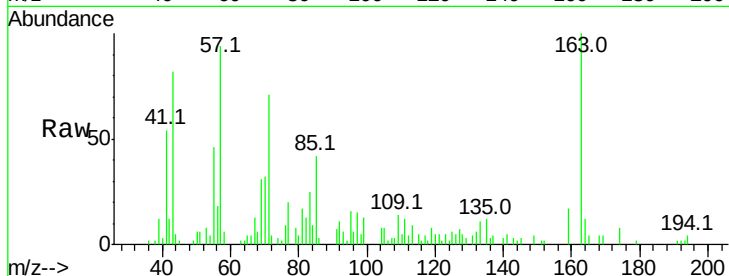
Tot Ion:163 Resp: 34444

Ion Ratio Lower Upper

163 100

194 3.7 2.6 4.0

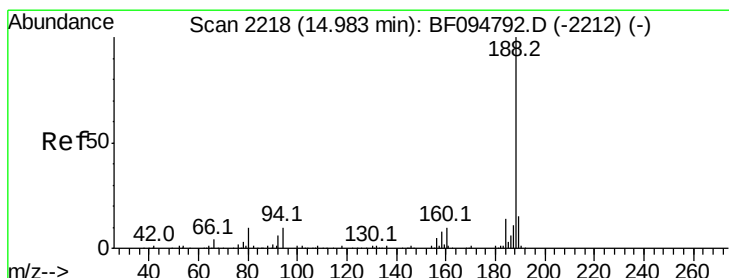
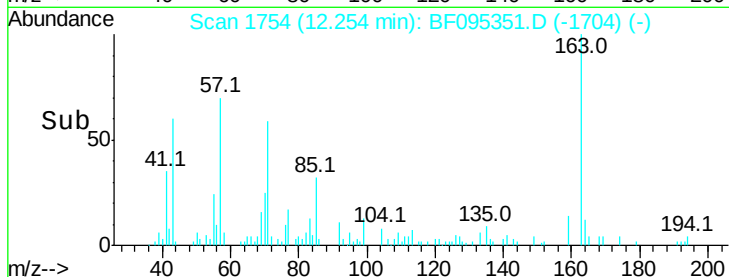
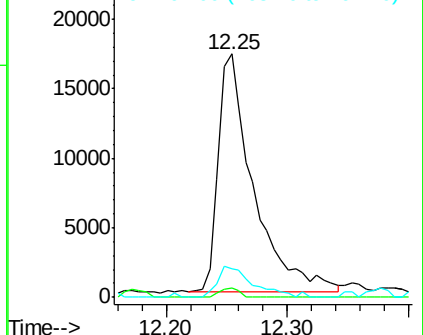
164 11.6 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 15.05 min Scan# 2230

Delta R.T. 0.03 min

Lab File: BF095351.D

Acq: 23 May 2017 15:09

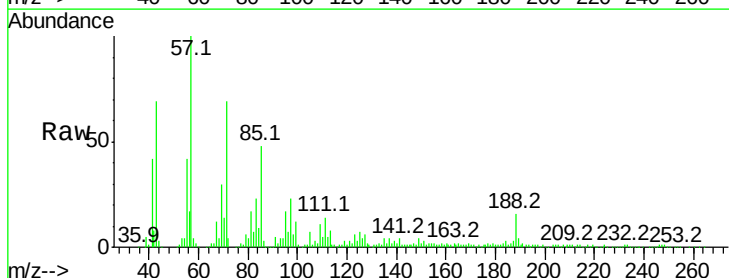
Tgt Ion:188 Resp: 191440

Ion Ratio Lower Upper

188 100

94 22.9 9.4 14.2#

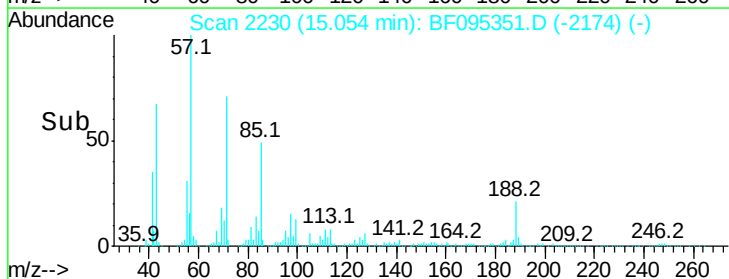
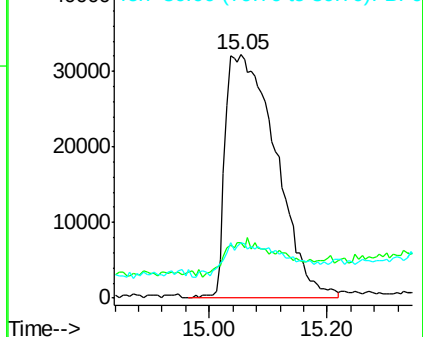
80 22.6 10.2 15.2#

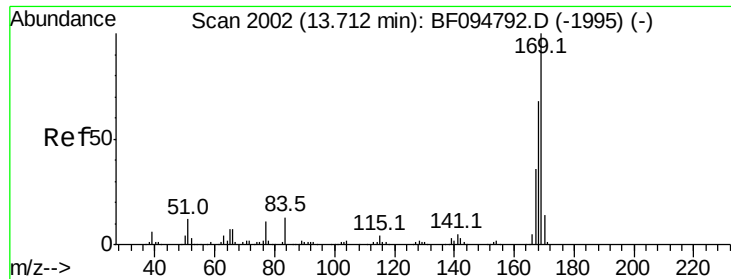


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

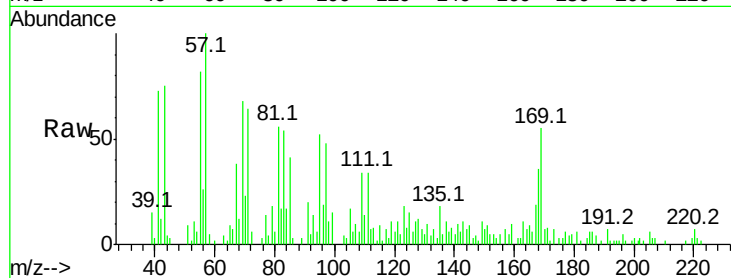




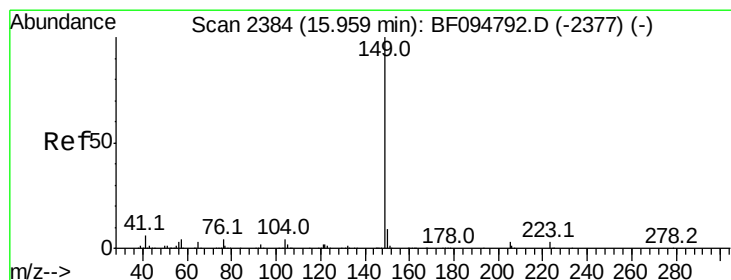
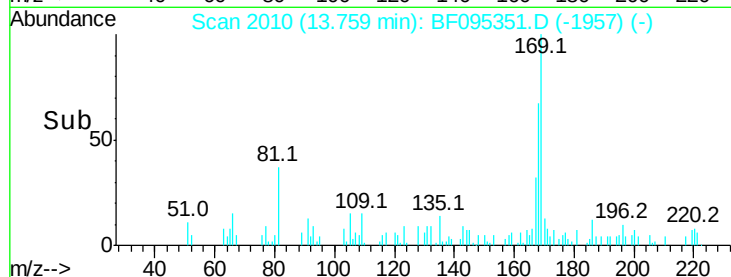
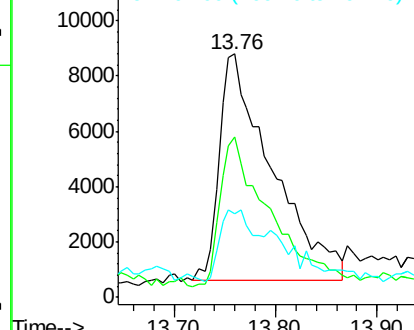
#65  
 n-Nitrosodiphenylamine  
 Concen: 4.24 ng  
 RT: 13.76 min Scan# 2010  
 Delta R.T. 0.01 min  
 Lab File: BF095351.D  
 Acq: 23 May 2017 15:09

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:169 Resp: 29476  
 Ion Ratio Lower Upper  
 169 100  
 168 65.8 53.2 79.8  
 167 34.5 29.5 44.3

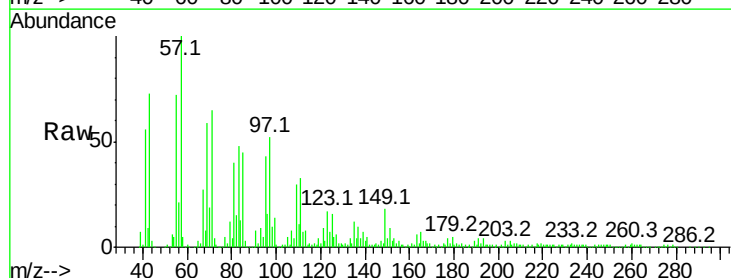


Abundance Ion 169.00 (168.70 to 169.70): E  
 Ion 168.00 (167.70 to 168.70): E  
 Ion 167.00 (166.70 to 167.70): E

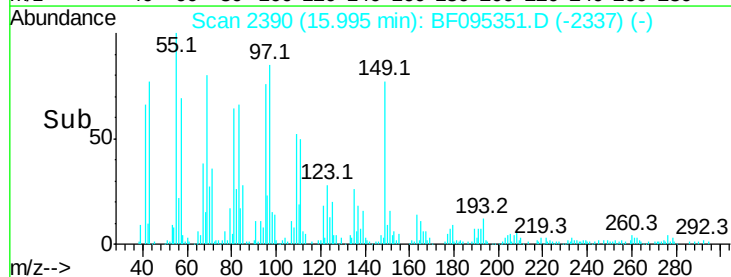
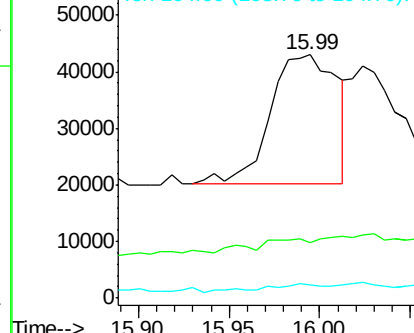


#73  
 Di-n-butylphthalate  
 Concen: 4.57 ng  
 RT: 15.99 min Scan# 2390  
 Delta R.T. 0.01 min  
 Lab File: BF095351.D  
 Acq: 23 May 2017 15:09

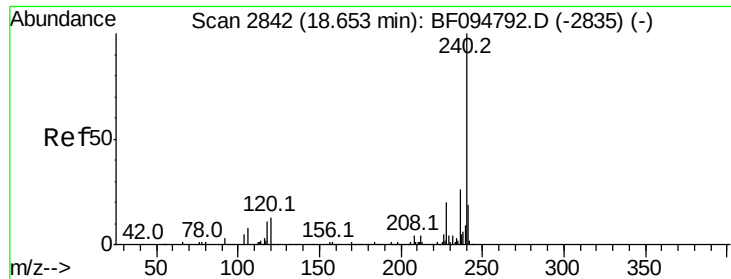
Tgt Ion:149 Resp: 58216  
 Ion Ratio Lower Upper  
 149 100  
 150 22.8 7.7 11.5#  
 104 5.5 4.0 6.0



Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 104.00 (103.70 to 104.70): E







#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.75 min Scan# 2858

Delta R.T. 0.05 min

Lab File: BF095351.D

Acq: 23 May 2017 15:09

Instrument :

BNA\_F

ClientSampleId :

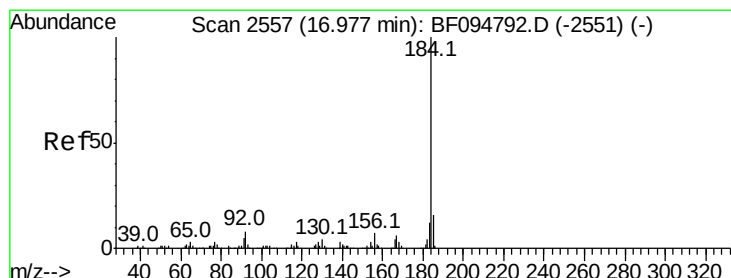
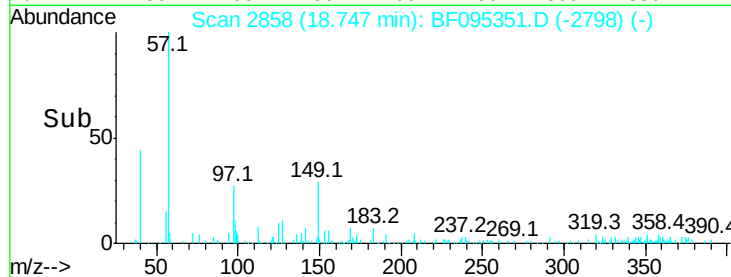
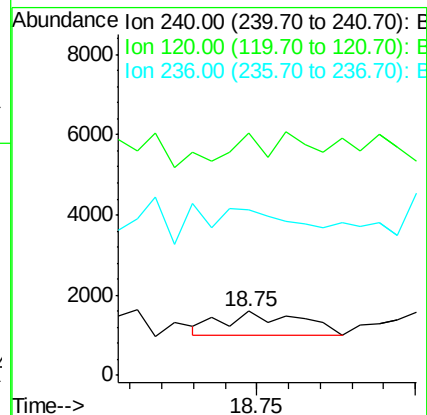
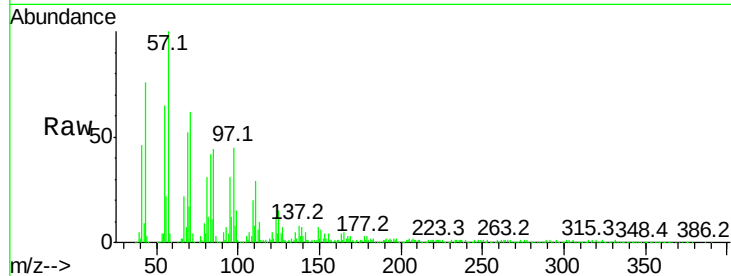
Tot Ion:240 Resp: 990

Ion Ratio Lower Upper

240 100

120 379.8 5.8 8.8#

236 258.8 20.5 30.7#



#76

Benzidine

Concen: 23.41 ng

RT: 17.06 min Scan# 2571

Delta R.T. 0.04 min

Lab File: BF095351.D

Acq: 23 May 2017 15:09

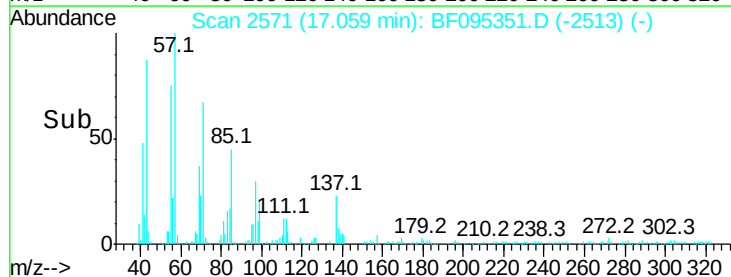
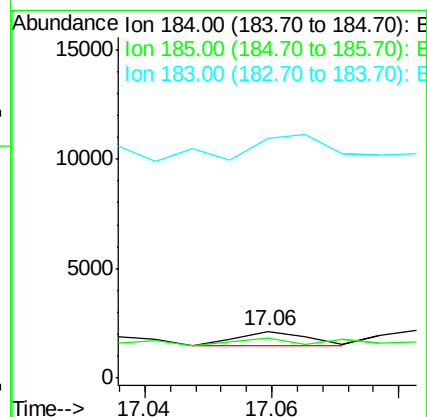
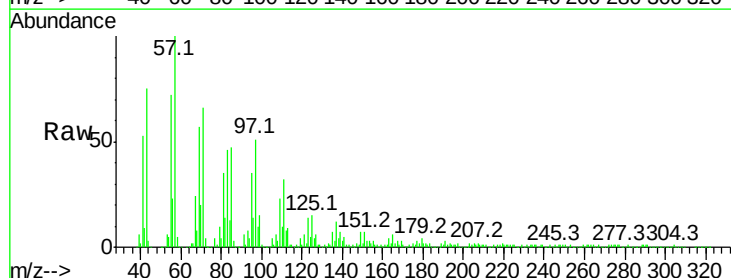
Tgt Ion:184 Resp: 522

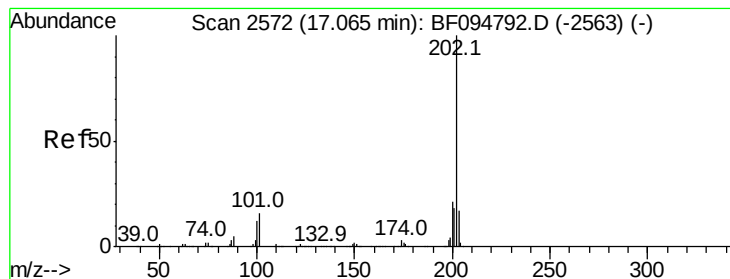
Ion Ratio Lower Upper

184 100

185 86.6 15.5 23.3#

183 512.3 9.8 14.6#





#77

Pvrene

Concen: 44.49 ng

RT: 17.18 min Scan# 2591

Delta R.T. 0.07 min

Lab File: BF095351.D

Acq: 23 May 2017 15:09

Instrument :

BNA\_F

ClientSampleId :

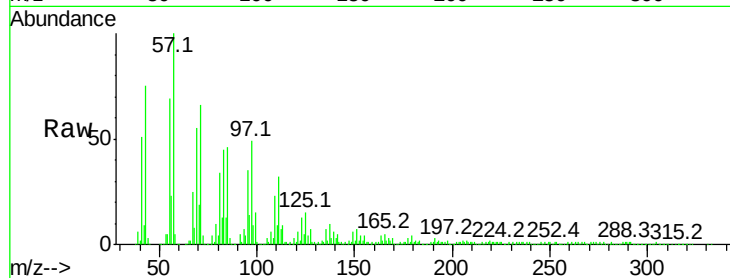
Tot Ion:202 Resp: 3294

Ion Ratio Lower Upper

202 100

200 26.0 17.6 26.4

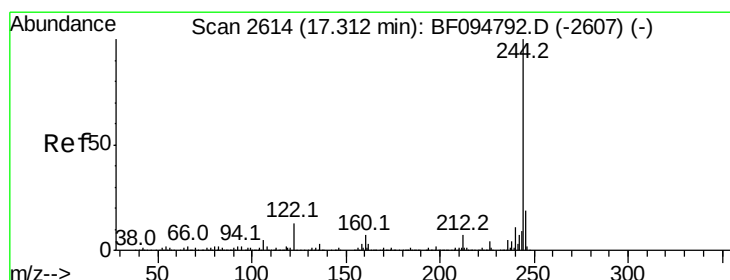
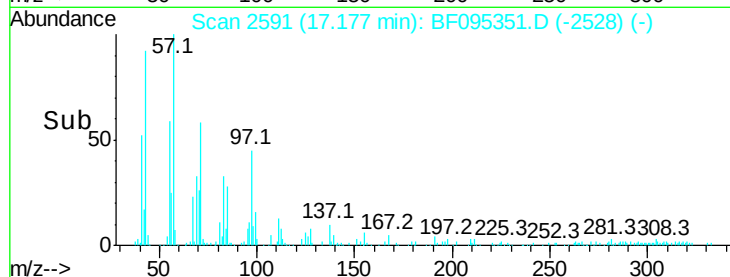
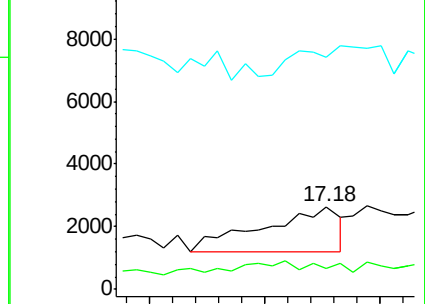
203 280.3 14.4 21.6#



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



#78

Terphenyl-d14

Concen: 214.41 ng

RT: 17.40 min Scan# 2629

Delta R.T. 0.05 min

Lab File: BF095351.D

Acq: 23 May 2017 15:09

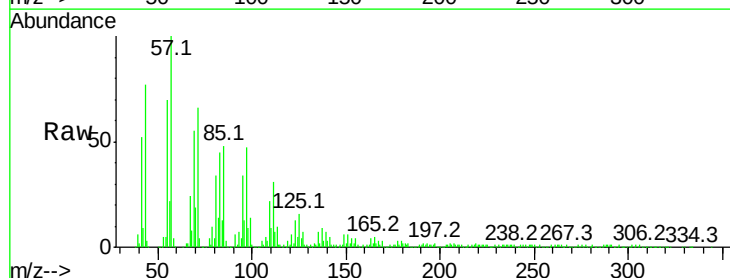
Tgt Ion:244 Resp: 9637

Ion Ratio Lower Upper

244 100

212 41.2 6.0 9.0#

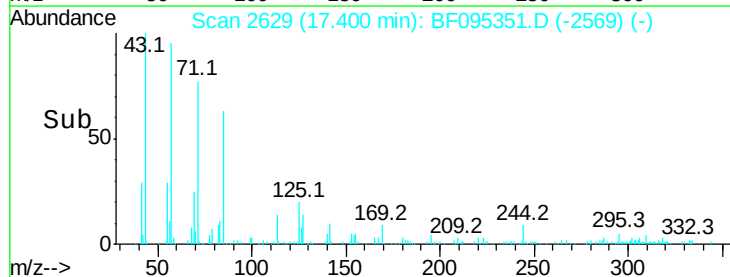
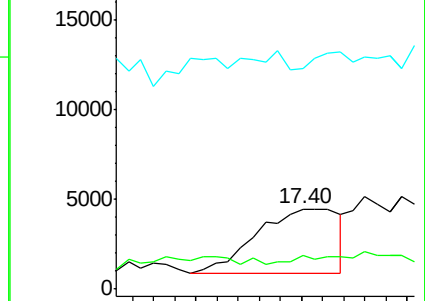
122 274.7 10.3 15.5#

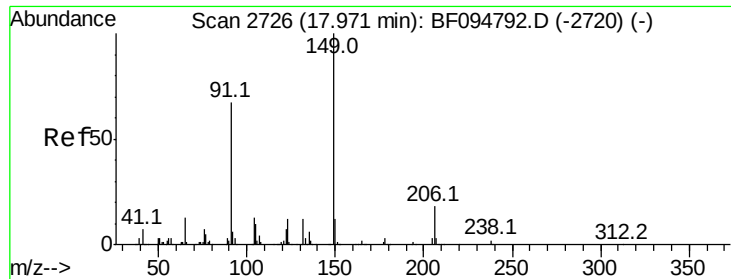


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#79

Butylbenzylphthalate

Concen: 153.87 ng

RT: 18.05 min Scan# 2739

Delta R.T. 0.05 min

Lab File: BF095351.D

Acq: 23 May 2017 15:09

Instrument :

BNA\_F

ClientSampled :

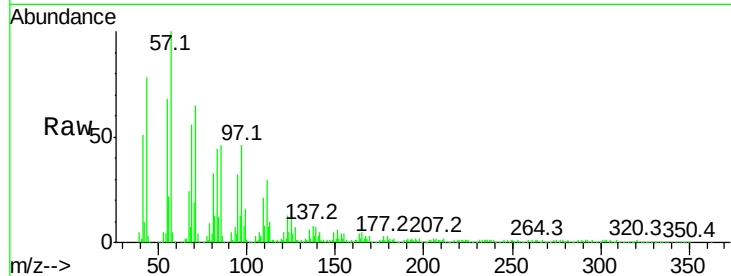
Tot Ion:149 Resp: 5299

Ion Ratio Lower Upper

149 100

91 92.3 45.0 67.4#

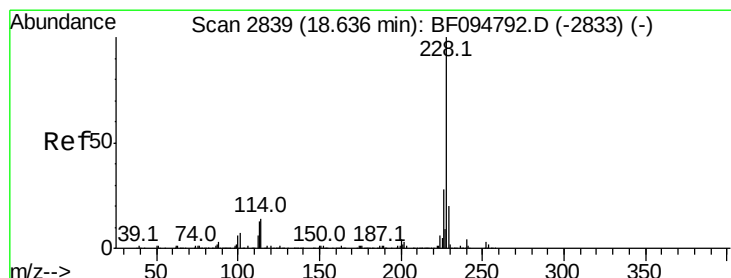
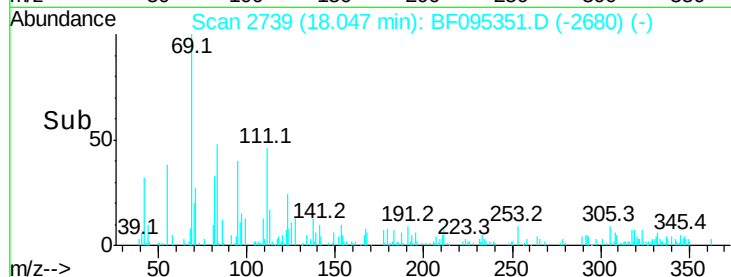
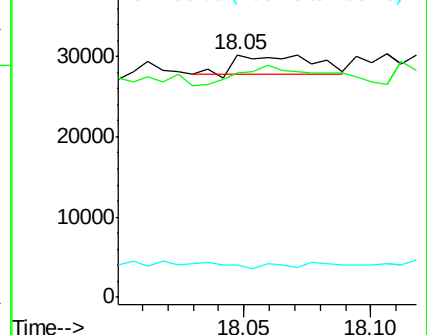
206 13.3 17.0 25.6#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E



#80

Benzo(a)anthracene

Concen: 5.90 ng

RT: 18.71 min Scan# 2852

Delta R.T. 0.03 min

Lab File: BF095351.D

Acq: 23 May 2017 15:09

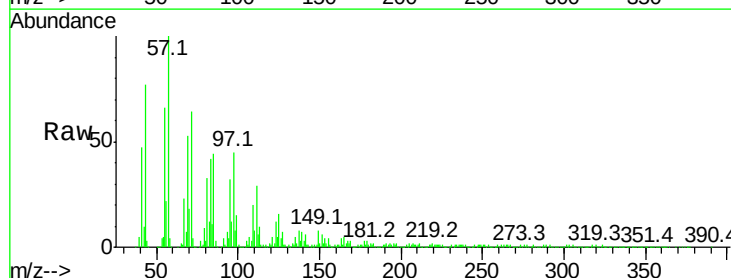
Tgt Ion:228 Resp: 340

Ion Ratio Lower Upper

228 100

226 208.4 22.6 33.8#

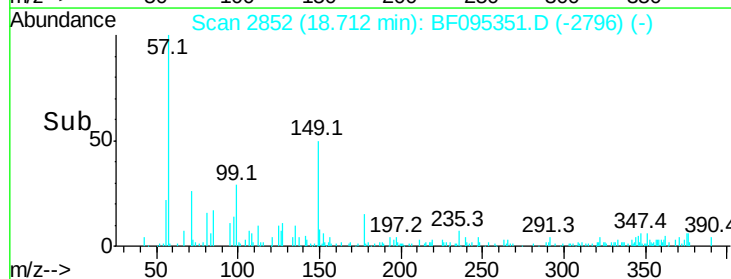
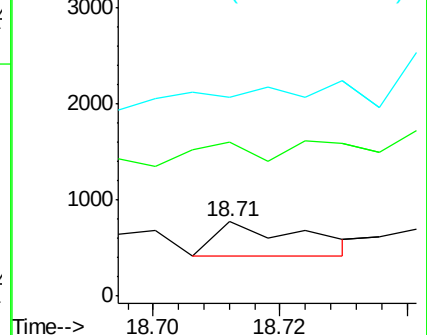
229 268.5 16.3 24.5#

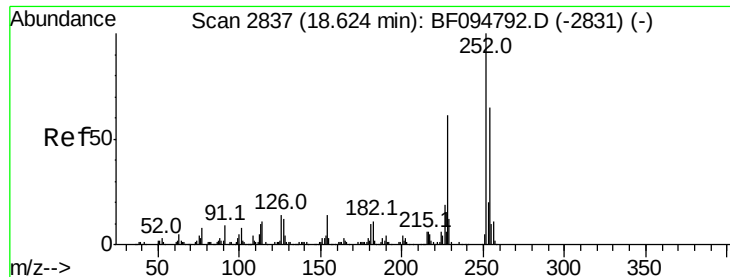


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

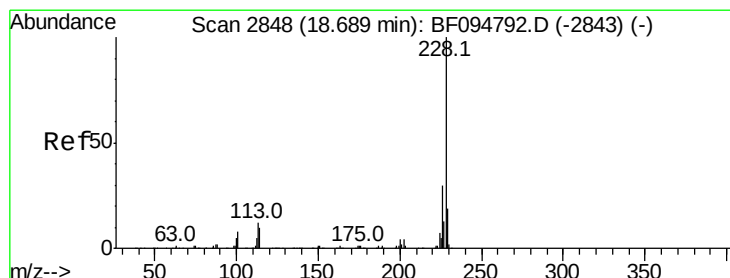
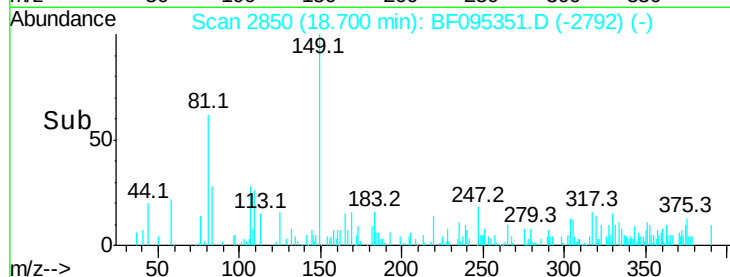
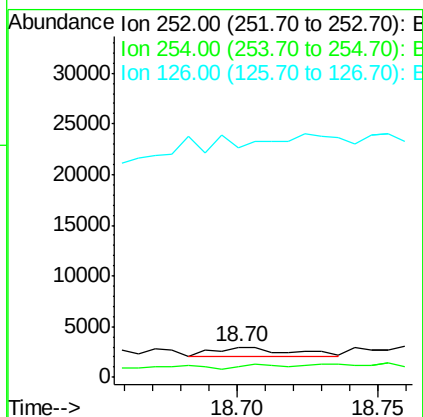
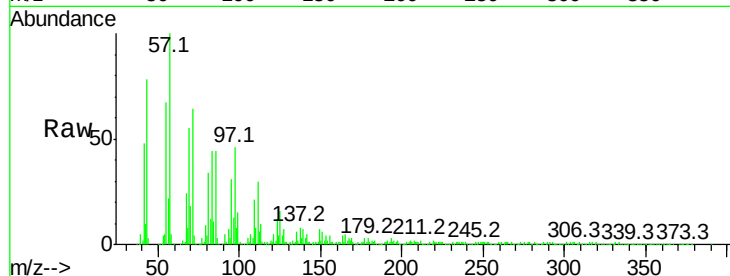




#81  
 3,3'-Dichlorobenzidine  
 Concen: 87.89 ng  
 RT: 18.70 min Scan# 2850  
 Delta R.T. 0.04 min  
 Lab File: BF095351.D  
 Acq: 23 May 2017 15:09

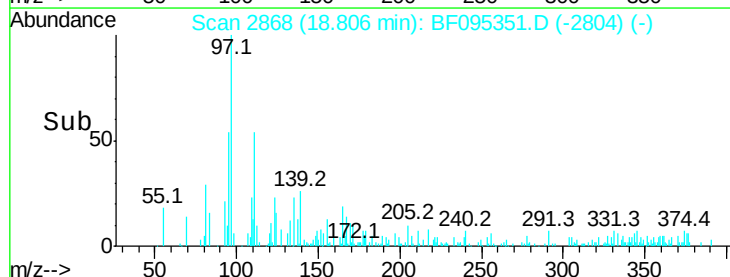
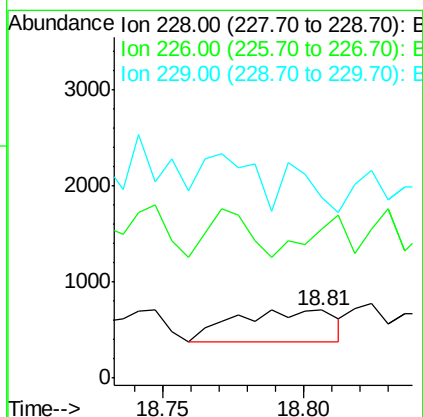
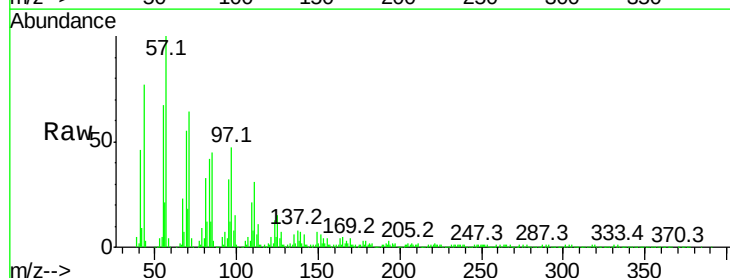
Instrument :  
 BNA\_F  
 ClientSampleId :

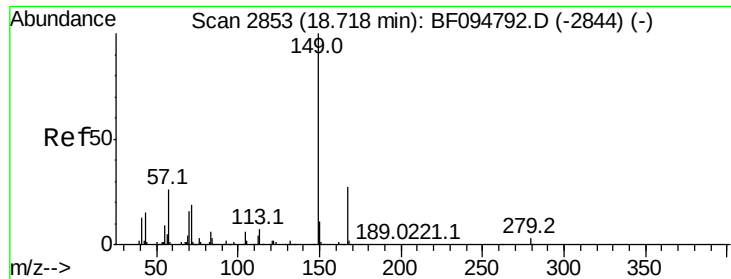
Tot Ion:252 Resp: 1749  
 Ion Ratio Lower Upper  
 252 100  
 254 33.4 51.5 77.3#  
 126 764.4 15.8 23.8#



#82  
 Chrysene  
 Concen: 14.68 ng  
 RT: 18.81 min Scan# 2868  
 Delta R.T. 0.08 min  
 Lab File: BF095351.D  
 Acq: 23 May 2017 15:09

Tgt Ion:228 Resp: 818  
 Ion Ratio Lower Upper  
 228 100  
 226 219.9 24.9 37.3#  
 229 266.8 15.8 23.6#





#83

Bis(2-ethylhexyl)phthalate

Concen: 53.97 ng

RT: 18.86 min Scan# 2877

Delta R.T. 0.12 min

Lab File: BF095351.D

Acq: 23 May 2017 15:09

Instrument :

BNA\_F

ClientSampled :

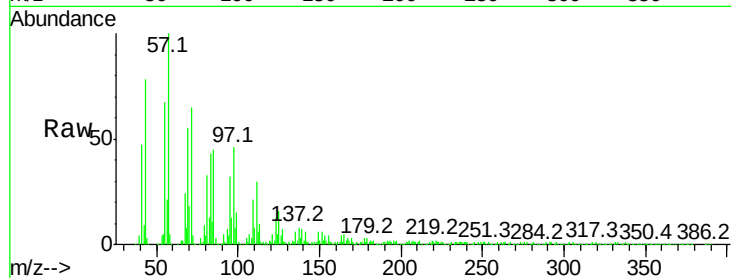
Tot Ion:149 Resp: 2648

Ion Ratio Lower Upper

149 100

167 47.6 21.0 31.4#

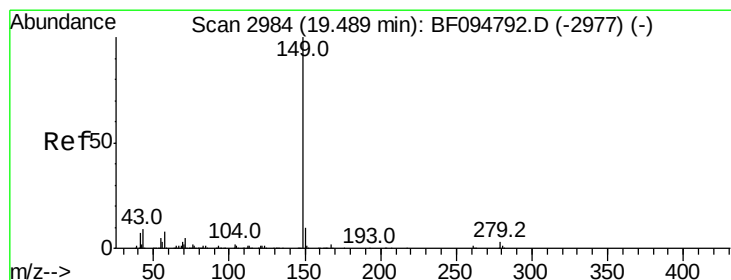
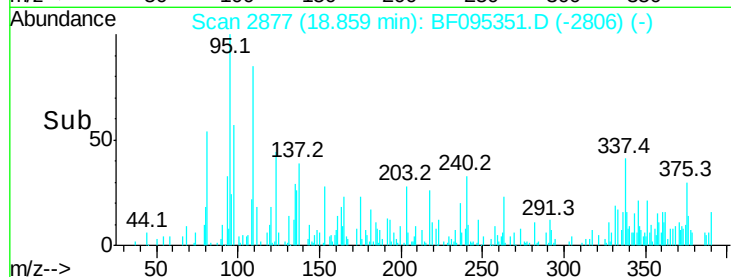
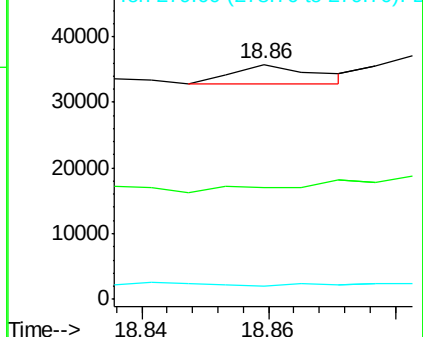
279 5.7 1.9 2.9#



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



#84

Di-n-octyl phthalate

Concen: 28.64 ng

RT: 19.61 min Scan# 3004

Delta R.T. 0.09 min

Lab File: BF095351.D

Acq: 23 May 2017 15:09

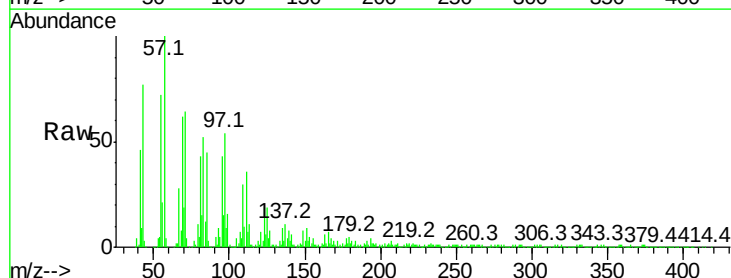
Tgt Ion:149 Resp: 2304

Ion Ratio Lower Upper

149 100

167 178.9 1.2 1.8#

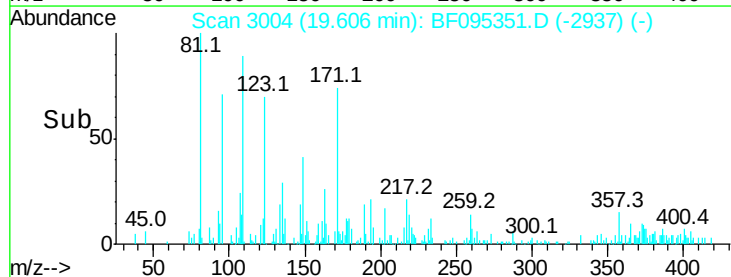
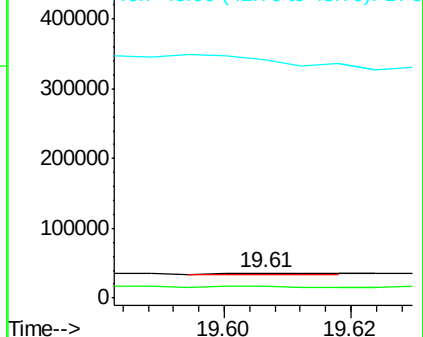
43 0.0 8.5 12.7#

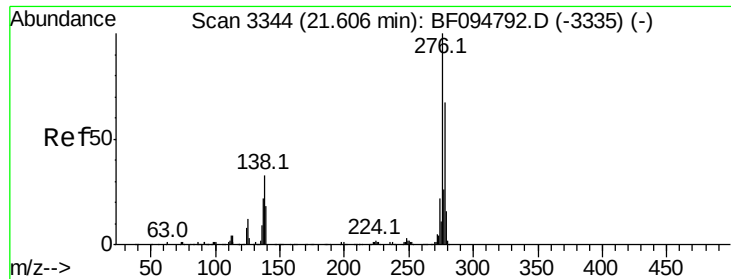


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0

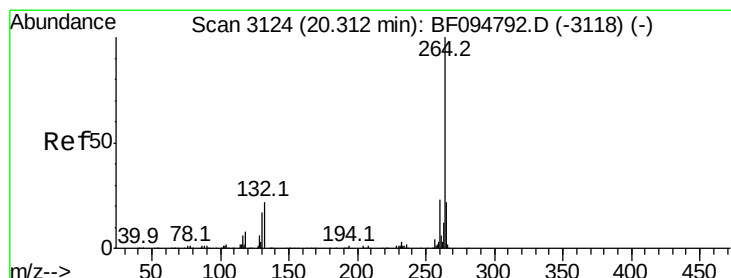
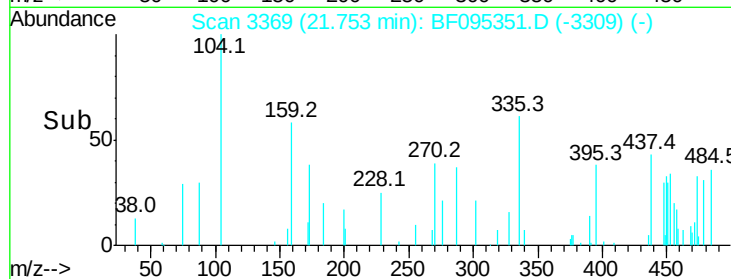
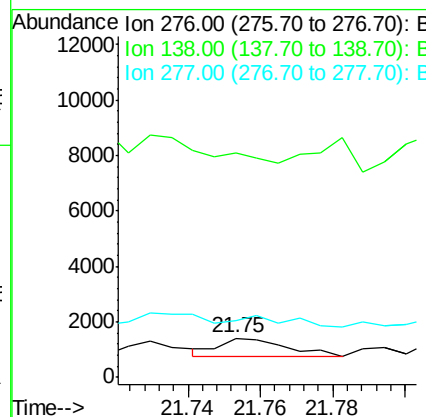
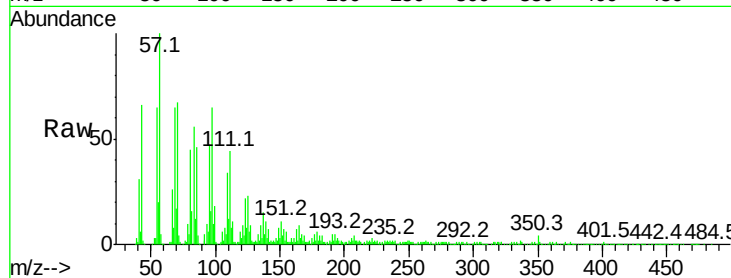




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 18.21 ng  
 RT: 21.75 min Scan# 3369  
 Delta R.T. 0.05 min  
 Lab File: BF095351.D  
 Acq: 23 May 2017 15:09

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:276 Resp: 824  
 Ion Ratio Lower Upper  
 276 100  
 138 0.0 27.8 41.6#  
 277 0.0 20.2 30.4#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 20.55 min Scan# 3164  
 Delta R.T. 0.18 min  
 Lab File: BF095351.D  
 Acq: 23 May 2017 15:09

Tgt Ion:264 Resp: 50364  
 Ion Ratio Lower Upper  
 264 100  
 260 36.0 19.5 29.3#  
 265 30.6 17.2 25.8#

