

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091415\  
 Data File : BF081614.D  
 Acq On : 14 Sep 2015 18:50  
 Operator : UM/IZ  
 Sample : G3597-08 2X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GP-8(0-5)

Quant Time: Sep 15 03:16:49 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 14 13:51:56 2015  
 Response via : Initial Calibration

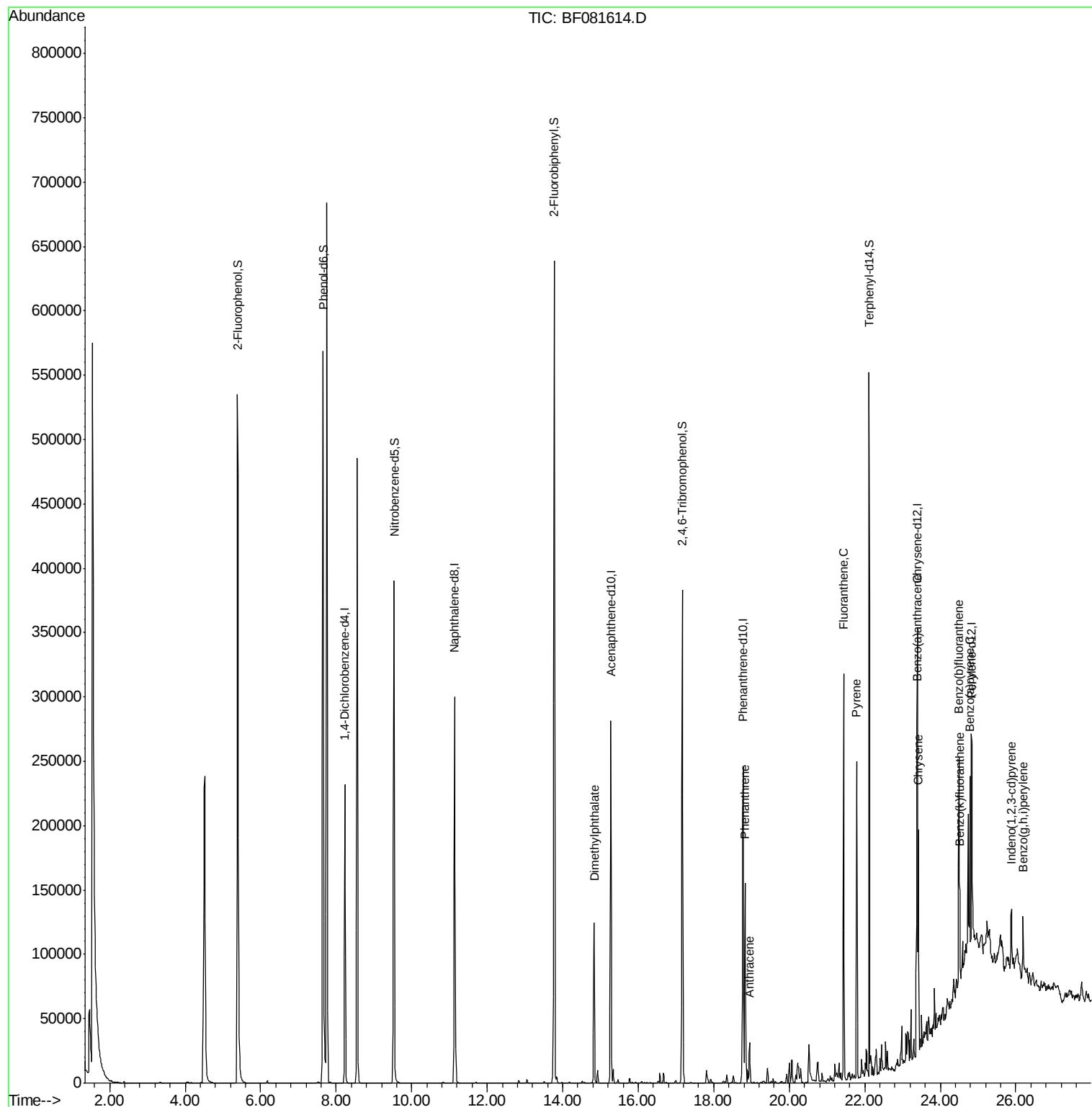
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.23  | 152  | 56487    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 11.13 | 136  | 224348   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 15.27 | 164  | 100393   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 18.78 | 188  | 175094   | 20.00 | ng    | 0.01     |
| 75) Chrysene-d12            | 23.40 | 240  | 105880   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 24.84 | 264  | 82625    | 20.00 | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.38  | 112  | 261565   | 71.84 | ng    | 0.01     |
| 7) Phenol-d6                | 7.66  | 99   | 374349   | 77.68 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.53  | 82   | 240655   | 51.75 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 17.17 | 330  | 62363    | 69.76 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 13.77 | 172  | 388639   | 49.61 | ng    | -0.01    |
| 78) Terphenyl-d14           | 22.12 | 244  | 220648   | 48.51 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 14.84 | 163  | 94616    | 12.13 | ng    | # 97     |
| 70) Phenanthrene            | 18.82 | 178  | 103703   | 10.65 | ng    | 97       |
| 71) Anthracene              | 18.95 | 178  | 25019    | 2.50  | ng    | 98       |
| 74) Fluoranthene            | 21.44 | 202  | 171298   | 16.26 | ng    | 88       |
| 77) Pyrene                  | 21.78 | 202  | 152212   | 19.41 | ng    | 96       |
| 80) Benzo(a)anthracene      | 23.38 | 228  | 76555    | 11.35 | ng    | 97       |
| 82) Chrysene                | 23.42 | 228  | 57453    | 9.51  | ng    | 93       |
| 85) Indeno(1,2,3-cd)pyrene  | 25.89 | 276  | 26532    | 5.98  | ng    | # 82     |
| 87) Benzo(b)fluoranthene    | 24.49 | 252  | 82924m   | 14.06 | ng    |          |
| 88) Benzo(k)fluoranthene    | 24.52 | 252  | 21507m   | 4.39  | ng    |          |
| 89) Benzo(a)pyrene          | 24.78 | 252  | 52841    | 10.57 | ng    | # 87     |
| 91) Benzo(g,h,i)perylene    | 26.19 | 276  | 27853    | 7.56  | ng    | # 74     |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.23 min Scan# 603

Delta R.T. 0.00 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

Instrument :

BNA\_F

ClientSampleId :

GP-8(0-5)

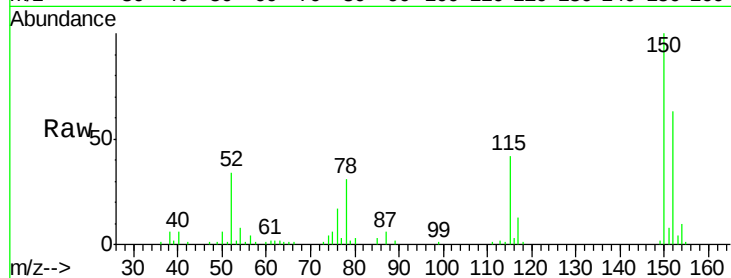
Tgt Ion:152 Resp: 56487

Ion Ratio Lower Upper

152 100

150 158.9 124.7 187.1

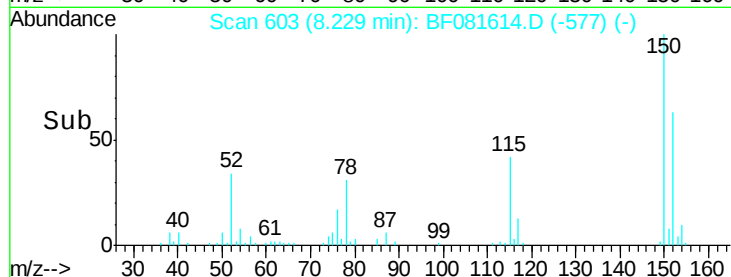
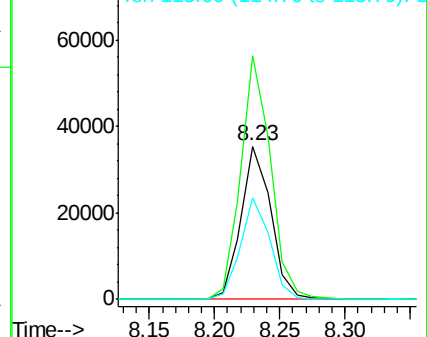
115 66.1 39.0 58.4#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 71.84 ng

RT: 5.38 min Scan# 354

Delta R.T. 0.01 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

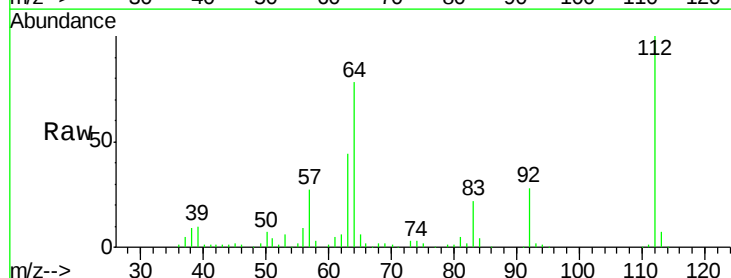
Tgt Ion:112 Resp: 261565

Ion Ratio Lower Upper

112 100

64 78.1 39.7 59.5#

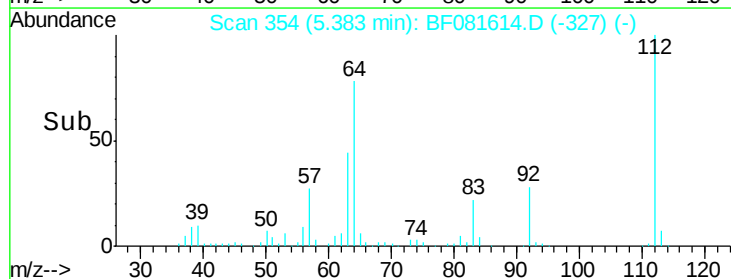
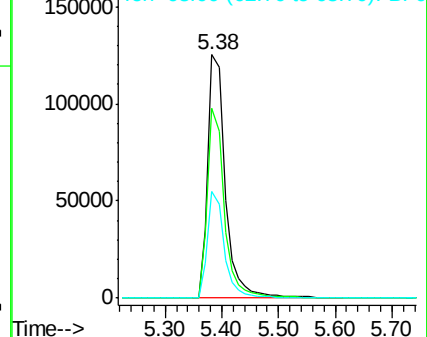
63 43.8 17.4 26.0#



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: 77.68 ng

RT: 7.66 min Scan# 553

Delta R.T. 0.00 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

Instrument :

BNA\_F

ClientSampleId :

GP-8(0-5)

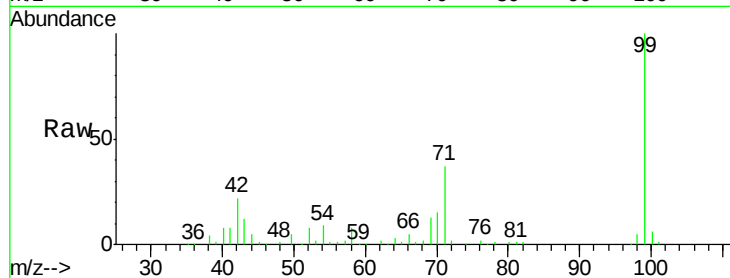
Tgt Ion: 99 Resp: 374349

Ion Ratio Lower Upper

99 100

42 22.2 13.7 20.5#

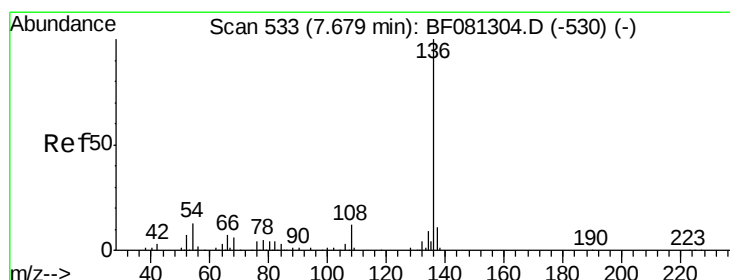
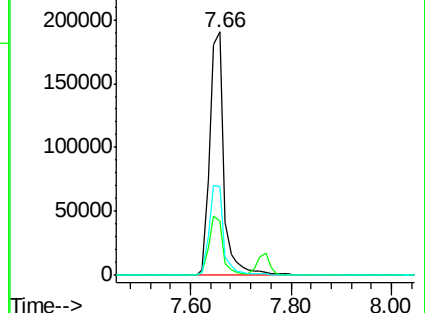
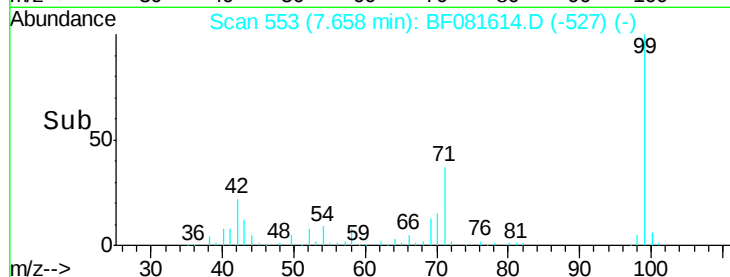
71 36.6 14.2 21.2#



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: 11.13 min Scan# 857

Delta R.T. 0.00 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

Tgt Ion: 136 Resp: 224348

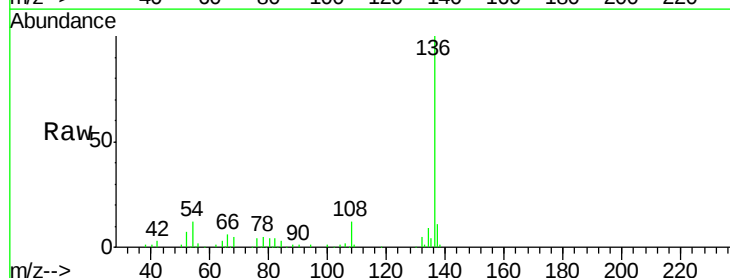
Ion Ratio Lower Upper

136 100

137 10.5 9.0 13.6

54 12.1 8.2 12.2

68 5.3 5.8 8.6#

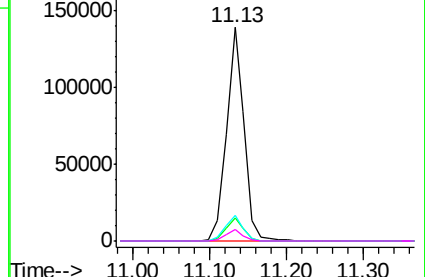
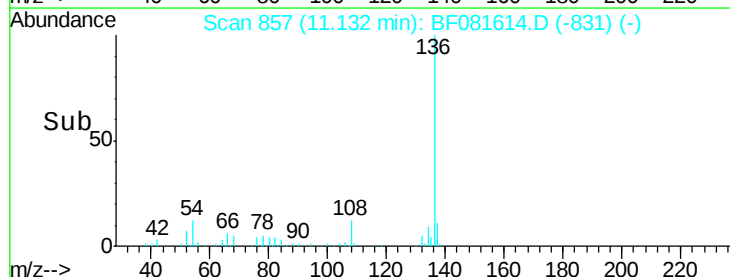


Abundance Ion 136.00 (135.70 to 136.70): E

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

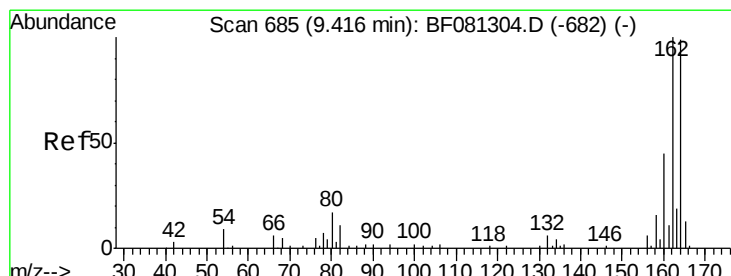
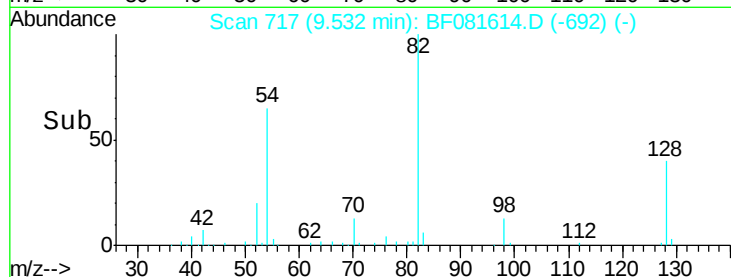
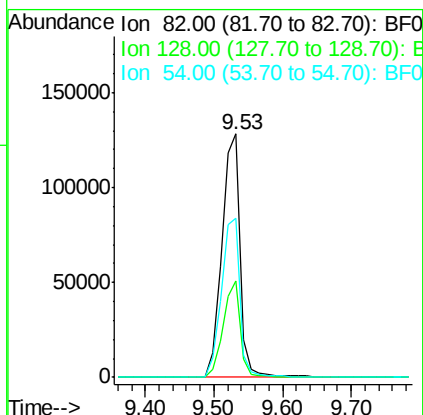
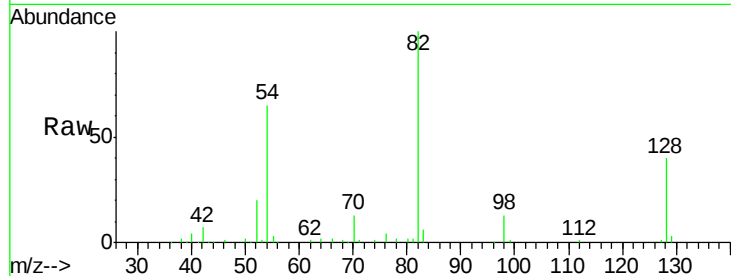




#23  
 Nitrobenzene-d5  
 Concen: 51.75 ng  
 RT: 9.53 min Scan# 717  
 Delta R.T. -0.01 min  
 Lab File: BF081614.D  
 Acq: 14 Sep 2015 18:50

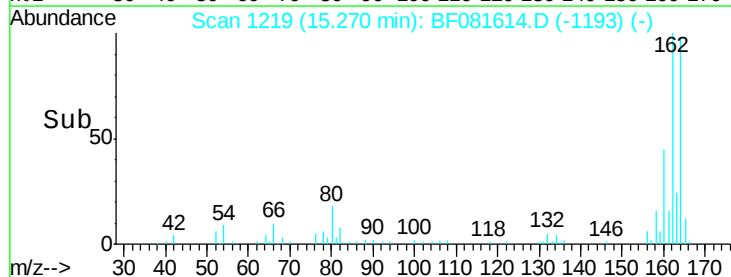
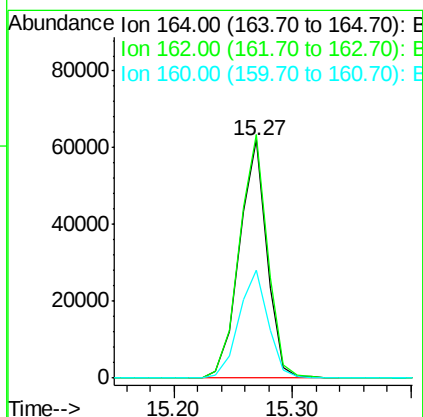
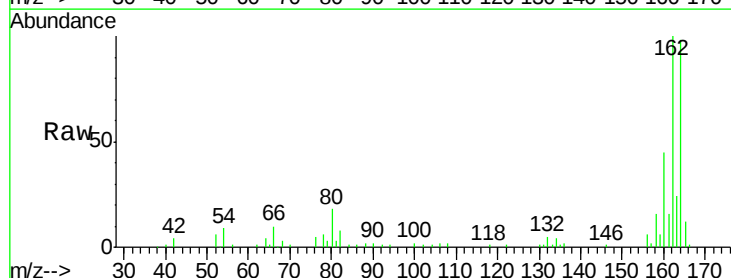
Instrument :  
 BNA\_F  
 ClientSampleId :  
 GP-8(0-5)

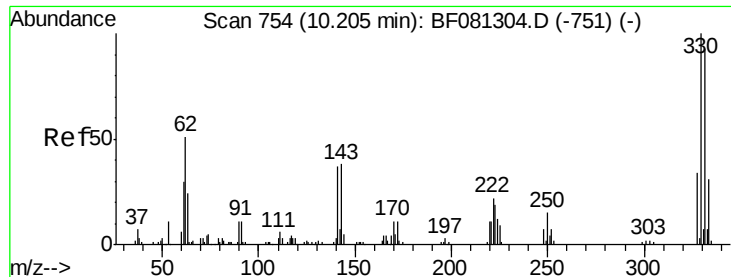
Tgt Ion: 82 Resp: 240655  
 Ion Ratio Lower Upper  
 82 100  
 128 39.6 51.0 76.6#  
 54 65.4 47.5 71.3



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 15.27 min Scan# 1219  
 Delta R.T. 0.00 min  
 Lab File: BF081614.D  
 Acq: 14 Sep 2015 18:50

Tgt Ion: 164 Resp: 100393  
 Ion Ratio Lower Upper  
 164 100  
 162 102.2 75.2 112.8  
 160 45.5 31.5 47.3

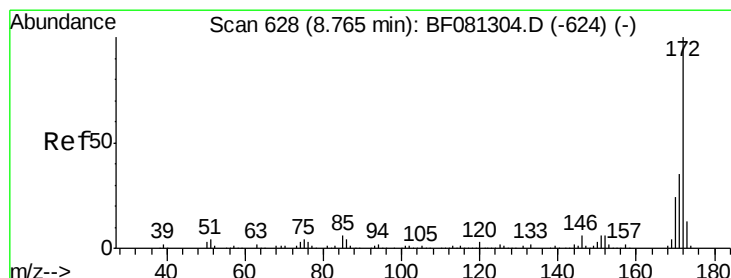
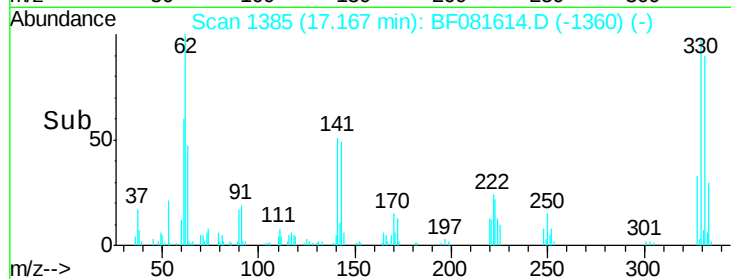
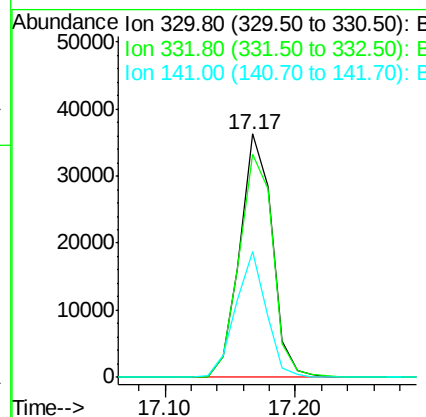
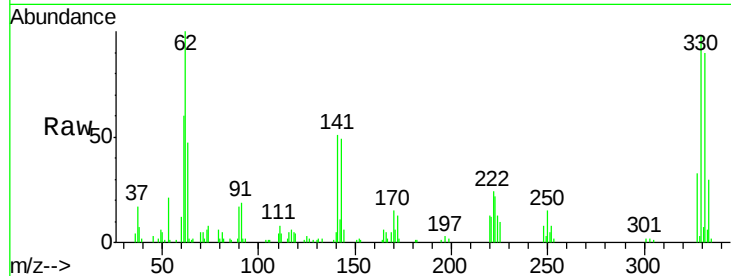




#41  
 2,4,6-Tribromophenol  
 Concen: 69.76 ng  
 RT: 17.17 min Scan# 1385  
 Delta R.T. -0.01 min  
 Lab File: BF081614.D  
 Acq: 14 Sep 2015 18:50

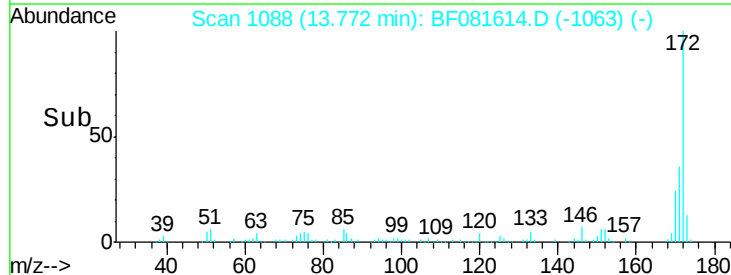
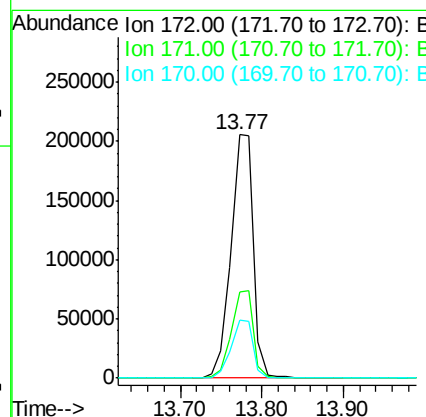
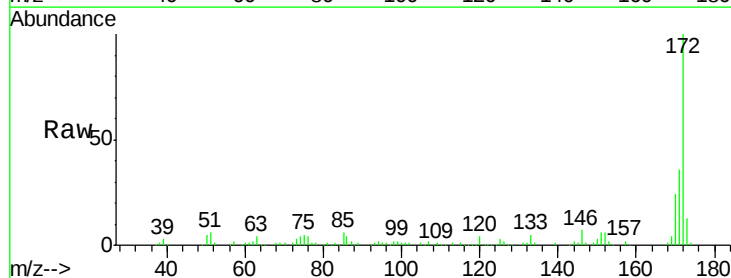
Instrument :  
 BNA\_F  
 ClientSampleId :  
 GP-8(0-5)

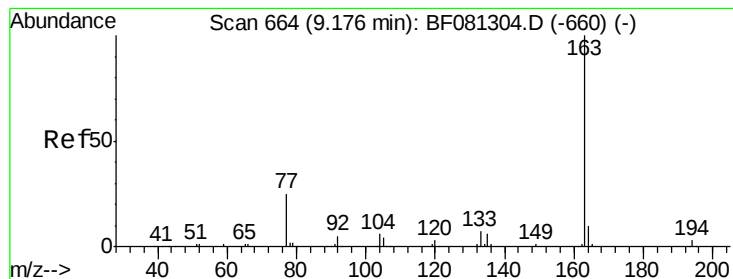
Tgt Ion:330 Resp: 62363  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 76.6 114.8  
 141 49.2 29.7 44.5#



#44  
 2-Fluorobiphenyl  
 Concen: 49.61 ng  
 RT: 13.77 min Scan# 1088  
 Delta R.T. -0.01 min  
 Lab File: BF081614.D  
 Acq: 14 Sep 2015 18:50

Tgt Ion:172 Resp: 388639  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 26.1 39.1  
 170 24.0 17.4 26.2





#49

Dimethylphthalate

Concen: 12.13 ng

RT: 14.84 min Scan# 1181

Delta R.T. -0.03 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

Instrument :

BNA\_F

ClientSampleId :

GP-8(0-5)

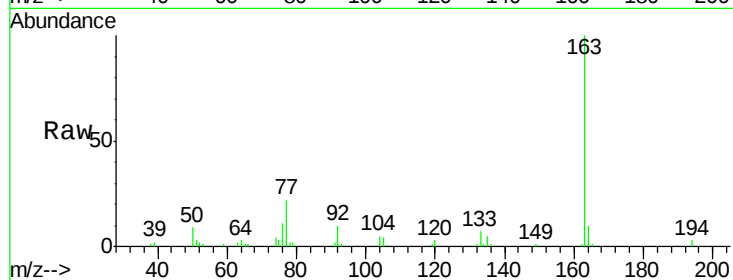
Tgt Ion:163 Resp: 94616

Ion Ratio Lower Upper

163 100

194 3.4 4.4 6.6#

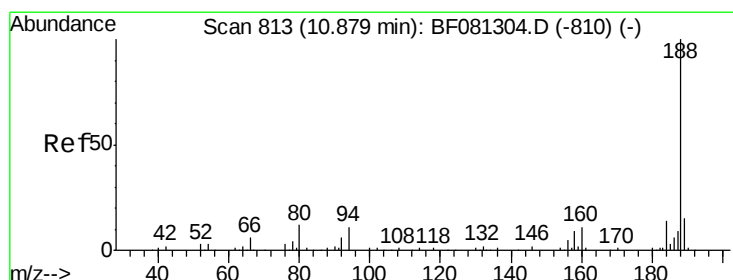
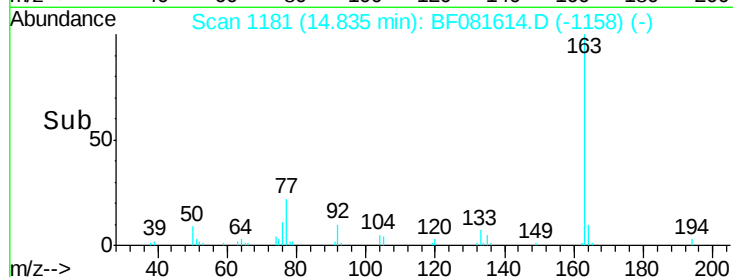
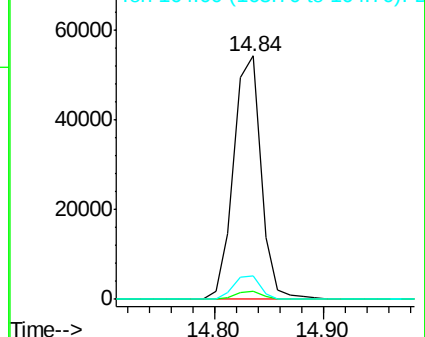
164 9.8 8.3 12.5



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: 18.78 min Scan# 1526

Delta R.T. 0.01 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

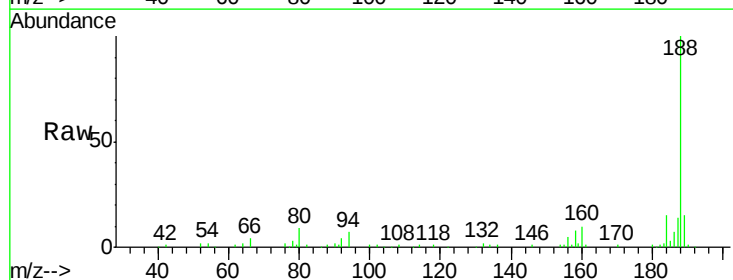
Tgt Ion:188 Resp: 175094

Ion Ratio Lower Upper

188 100

94 7.2 11.1 16.7#

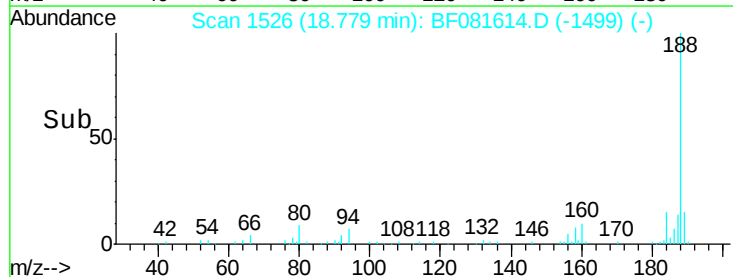
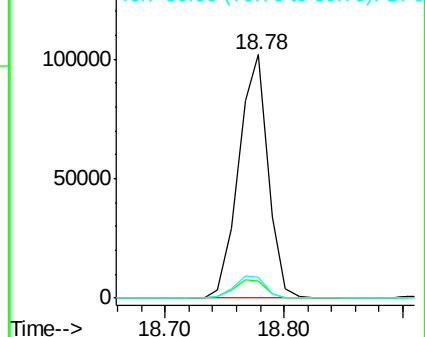
80 8.6 11.0 16.4#

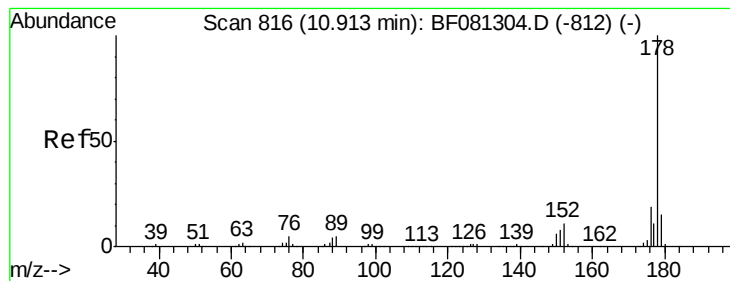


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 10.65 ng

RT: 18.82 min Scan# 1530

Delta R.T. -0.01 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

Instrument :

BNA\_F

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GP-8(0-5)

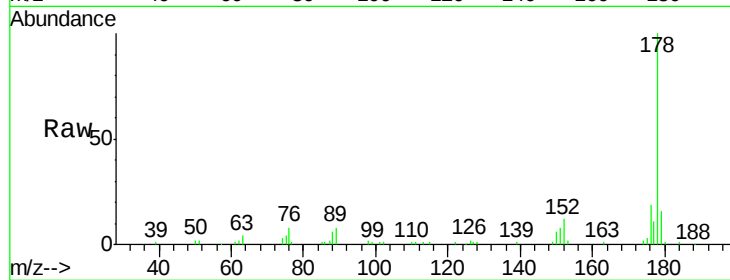
Tgt Ion:178 Resp: 103703

Ion Ratio Lower Upper

178 100

176 18.8 13.8 20.8

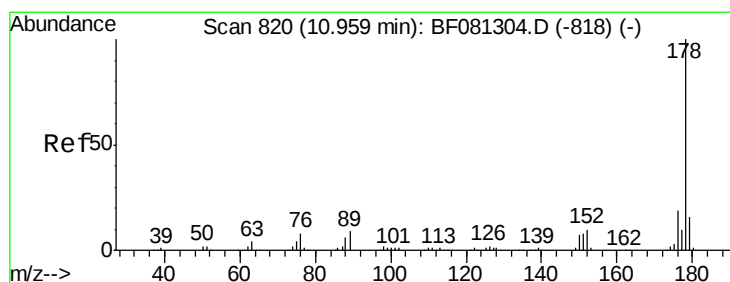
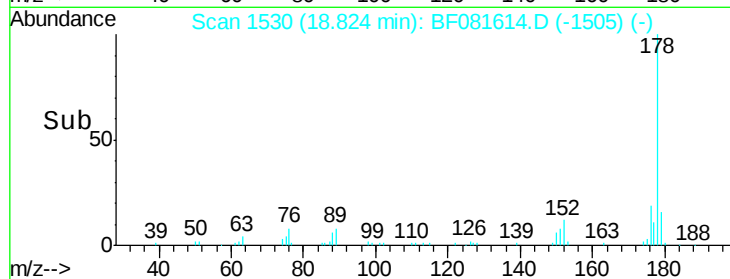
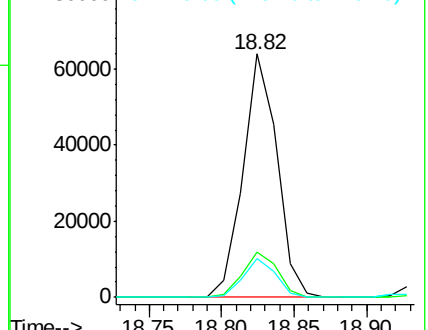
179 15.8 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 2.50 ng

RT: 18.95 min Scan# 1541

Delta R.T. 0.00 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

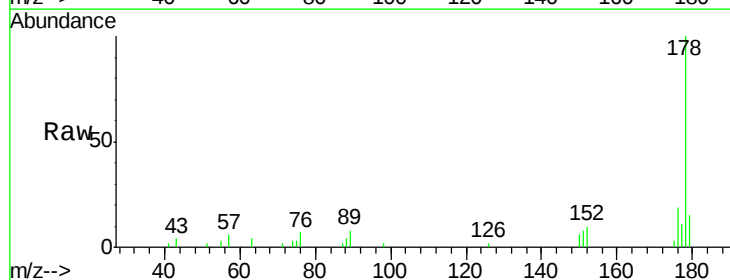
Tgt Ion:178 Resp: 25019

Ion Ratio Lower Upper

178 100

176 18.8 14.1 21.1

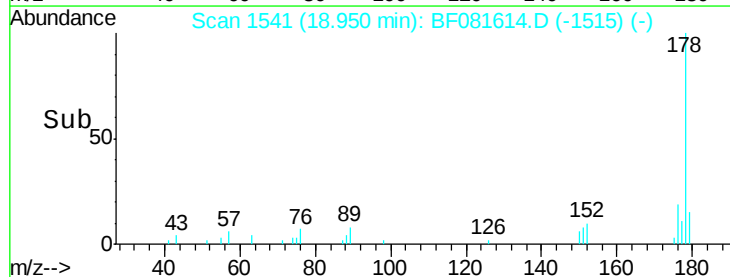
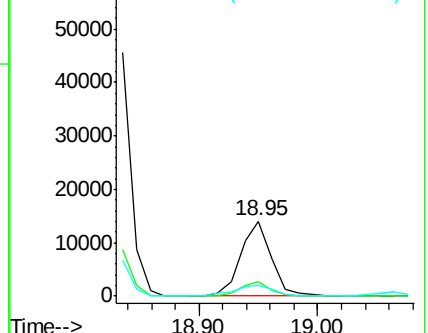
179 14.8 12.2 18.2

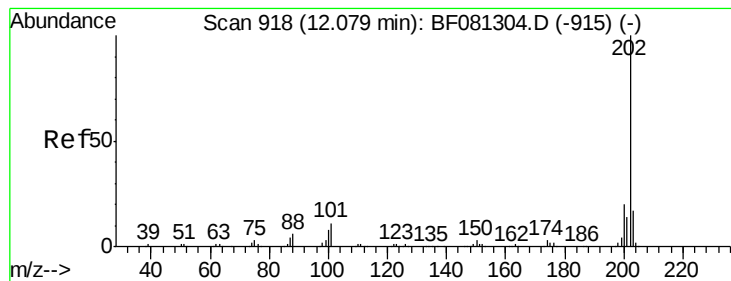


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 16.26 ng

RT: 21.44 min Scan# 1759

Delta R.T. 0.00 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

Instrument :

BNA\_F

ClientSampleId :

GP-8(0-5)

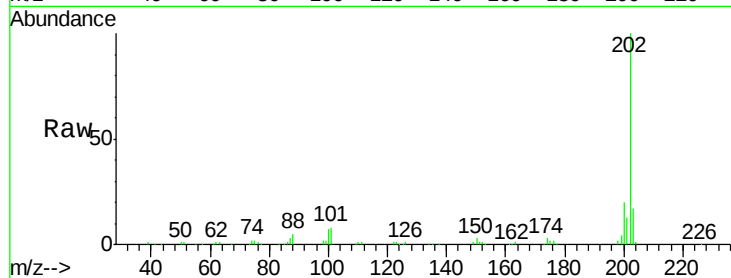
Tgt Ion:202 Resp: 171298

Ion Ratio Lower Upper

202 100

101 8.4 0.0 38.3

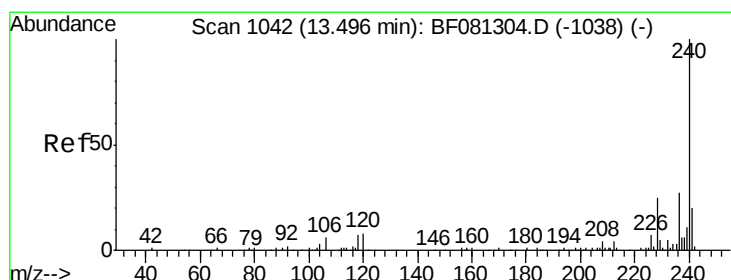
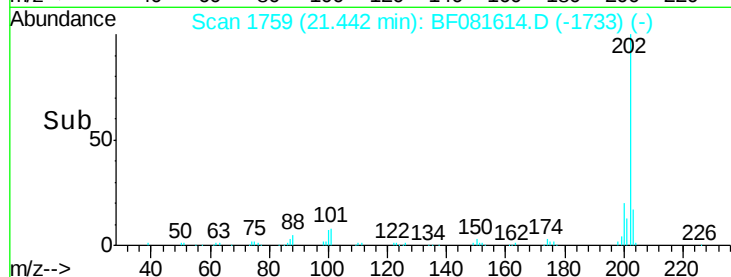
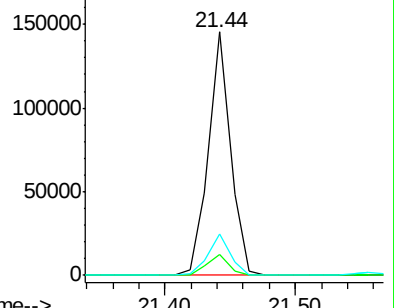
203 17.1 0.0 37.3



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 23.40 min Scan# 1930

Delta R.T. 0.00 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

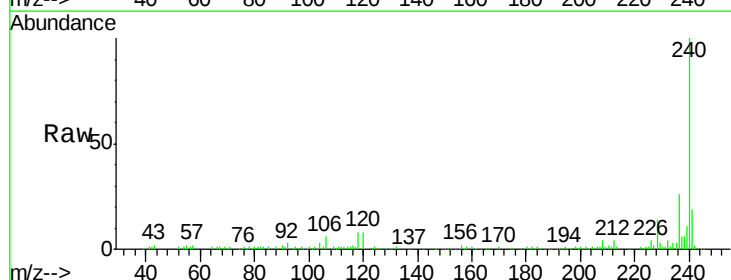
Tgt Ion:240 Resp: 105880

Ion Ratio Lower Upper

240 100

120 7.9 16.2 24.2#

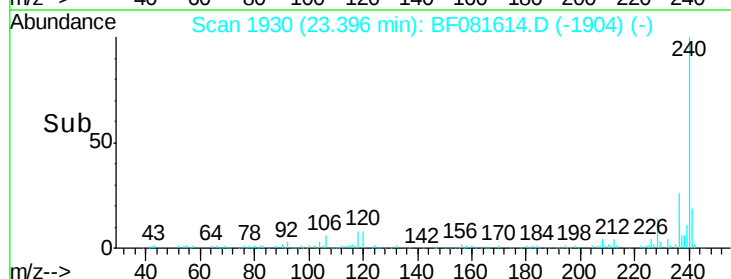
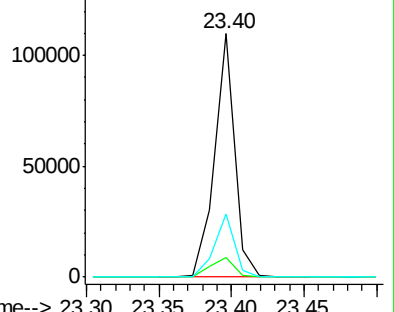
236 25.8 18.4 27.6

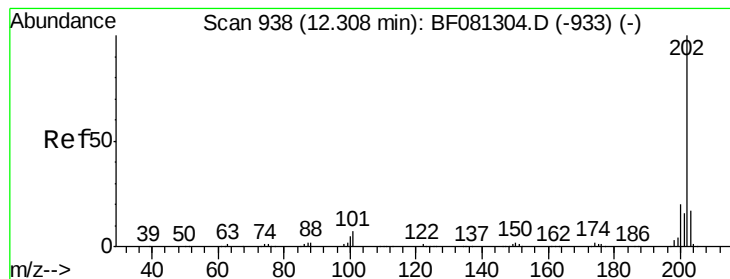


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 19.41 ng

RT: 21.78 min Scan# 1789

Delta R.T. 0.00 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

Instrument :

BNA\_F

ClientSampleId :

GP-8(0-5)

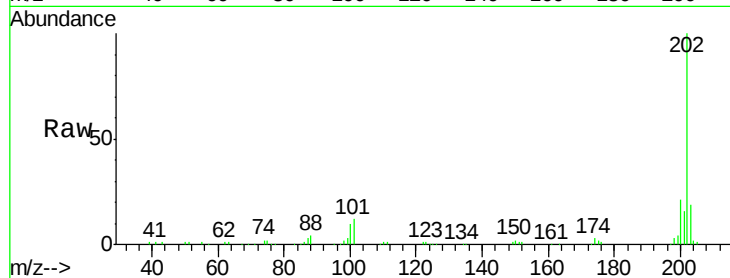
Tgt Ion: 202 Resp: 152212

Ion Ratio Lower Upper

202 100

200 20.5 15.0 22.4

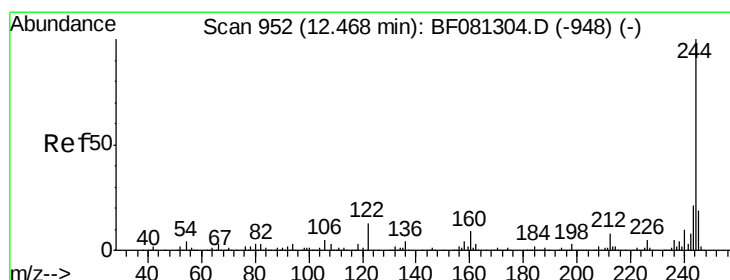
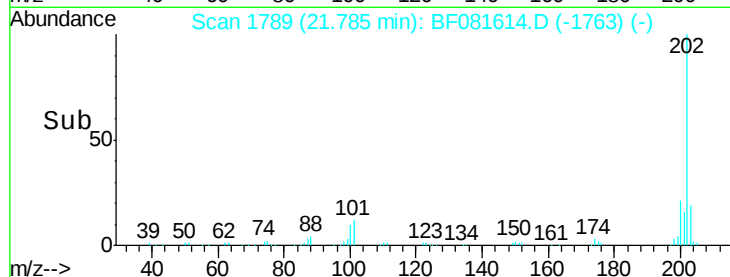
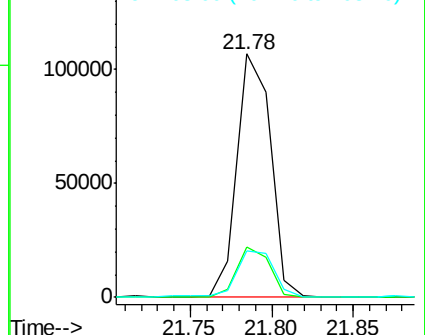
203 19.2 14.1 21.1



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



#78

Terphenyl-d14

Concen: 48.51 ng

RT: 22.12 min Scan# 1818

Delta R.T. 0.00 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

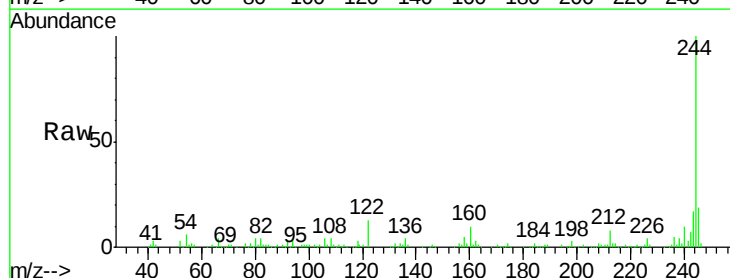
Tgt Ion: 244 Resp: 220648

Ion Ratio Lower Upper

244 100

212 8.4 4.3 6.5#

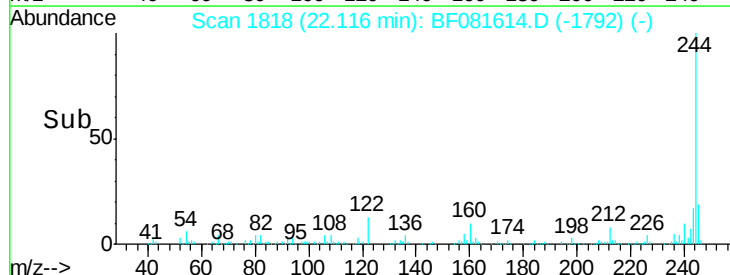
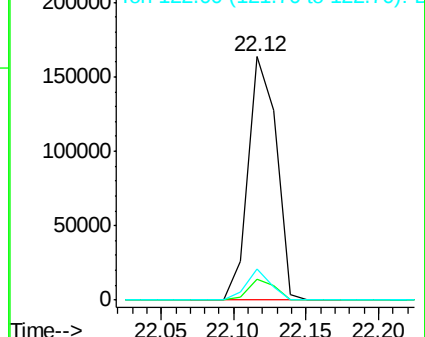
122 12.7 17.4 26.2#

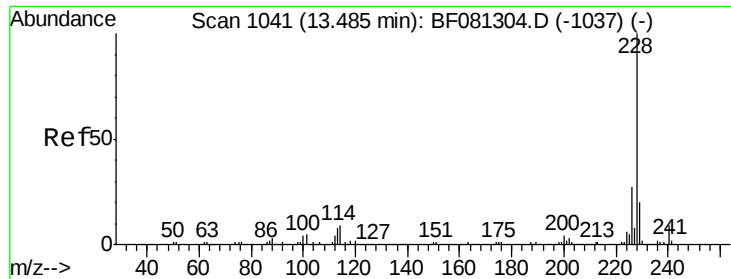


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 11.35 ng

RT: 23.38 min Scan# 1929

Delta R.T. 0.01 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

Instrument :

BNA\_F

ClientSampleId :

GP-8(0-5)

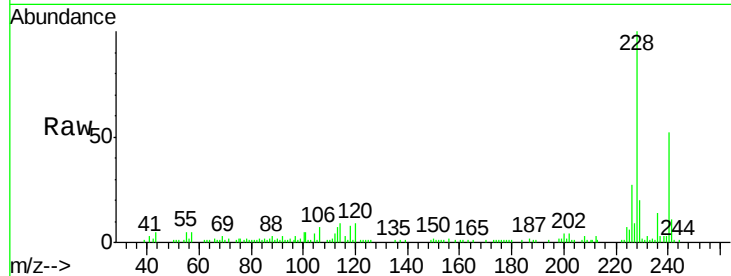
Tgt Ion:228 Resp: 76555

Ion Ratio Lower Upper

228 100

226 26.8 20.0 30.0

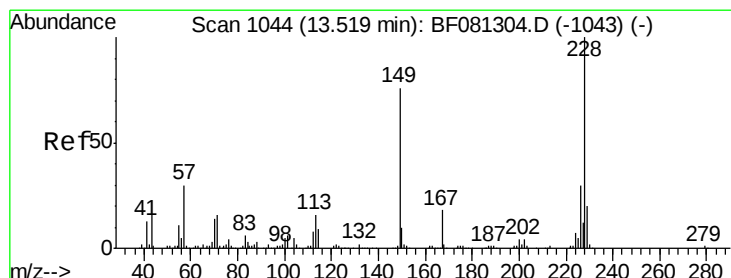
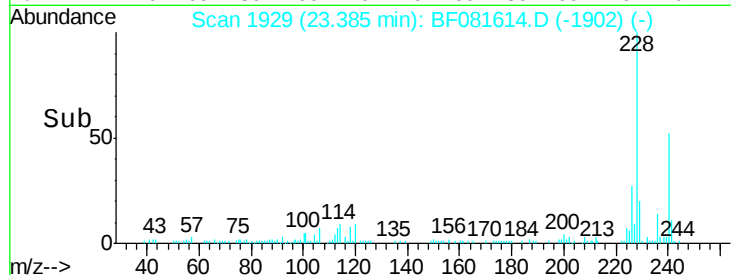
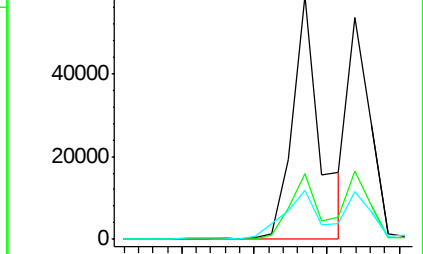
229 20.3 15.4 23.2



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



#82

Chrysene

Concen: 9.51 ng

RT: 23.42 min Scan# 1932

Delta R.T. 0.00 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

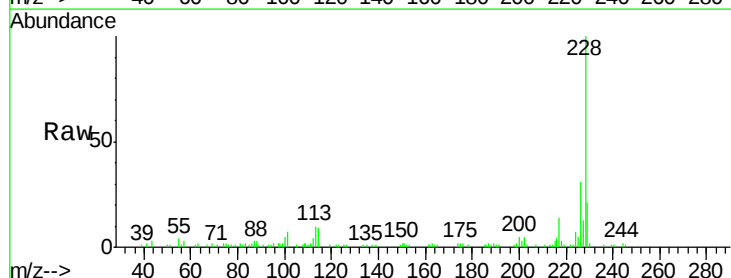
Tgt Ion:228 Resp: 57453

Ion Ratio Lower Upper

228 100

226 30.9 21.0 31.4

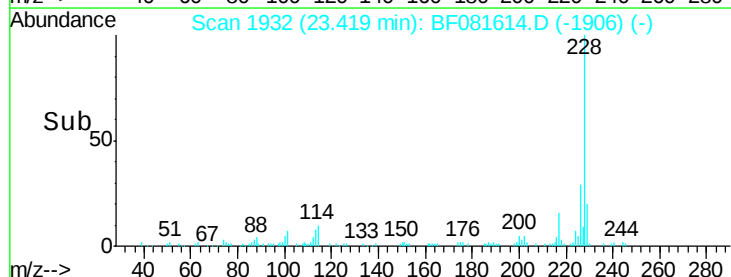
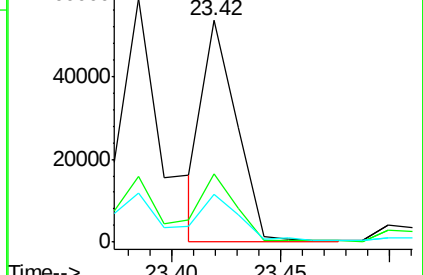
229 21.3 15.6 23.4

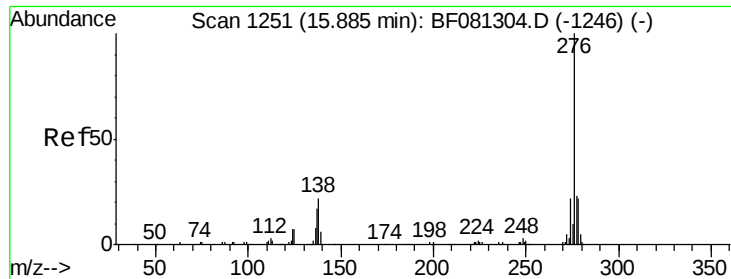


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

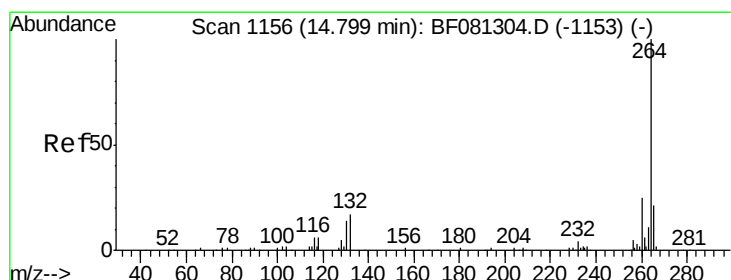
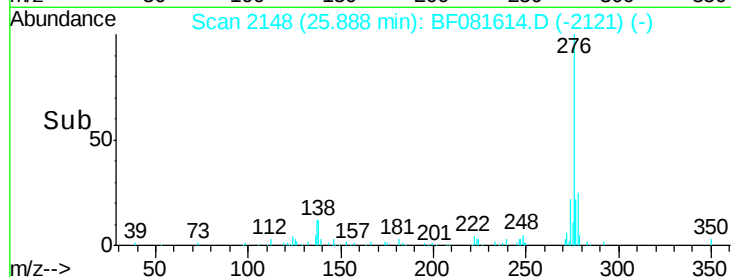
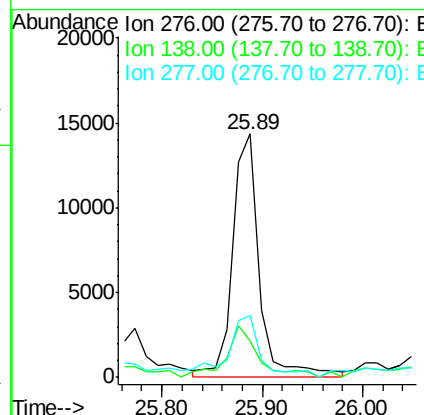
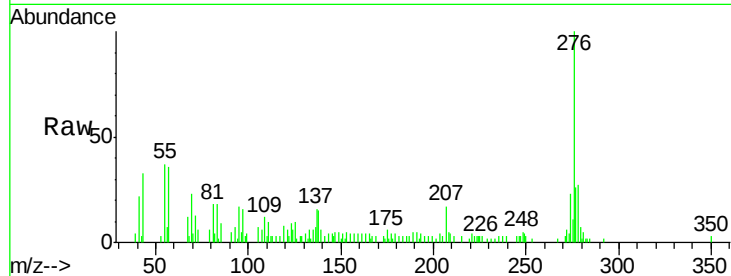




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 5.98 ng  
 RT: 25.89 min Scan# 2148  
 Delta R.T. 0.01 min  
 Lab File: BF081614.D  
 Acq: 14 Sep 2015 18:50

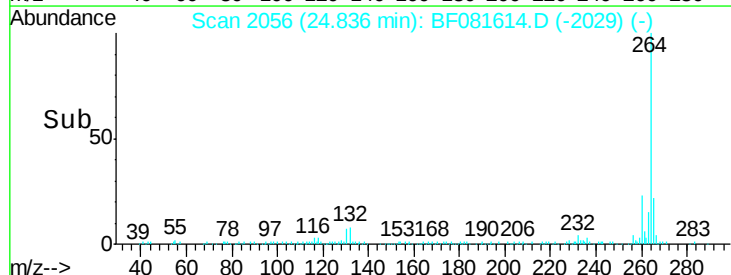
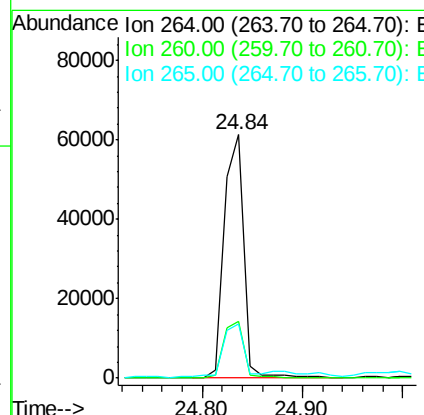
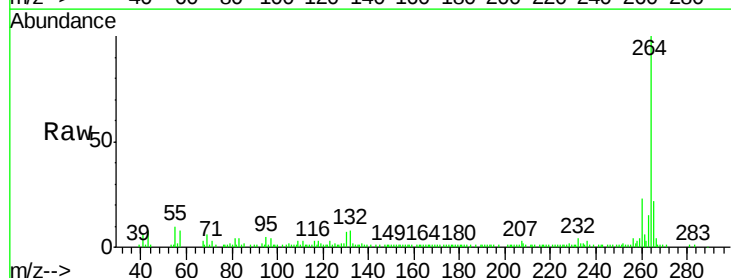
Instrument :  
 BNA\_F  
 ClientSampleId :  
 GP-8(0-5)

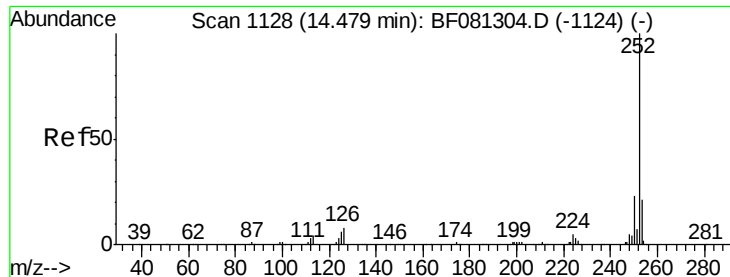
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.7  | 25.7  | 38.5  |
| 277     | 32.5  | 15.6  | 23.4# |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 24.84 min Scan# 2056  
 Delta R.T. 0.01 min  
 Lab File: BF081614.D  
 Acq: 14 Sep 2015 18:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 16.7  | 25.1  |
| 265     | 22.5  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 14.06 ng m

RT: 24.49 min Scan# 2026

Delta R.T. 0.01 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

Instrument :

BNA\_F

ClientSampleId :

GP-8(0-5)

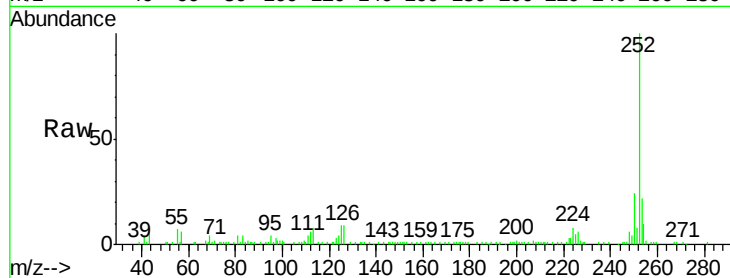
Tgt Ion:252 Resp: 82924

Ion Ratio Lower Upper

252 100

253 21.7 17.5 26.3

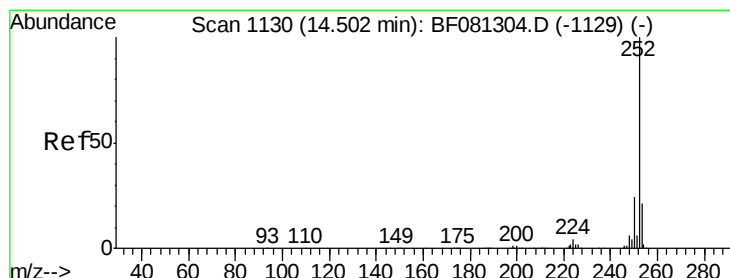
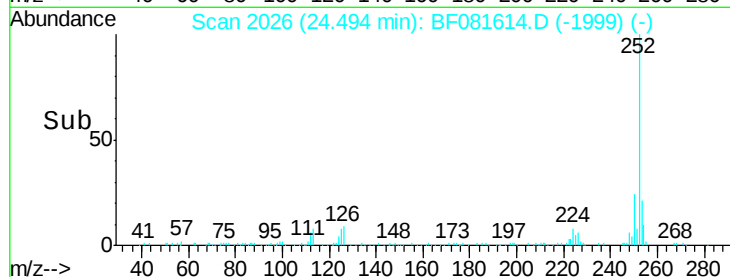
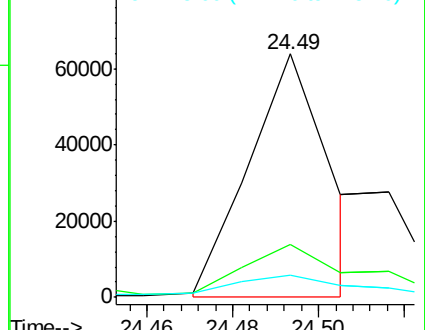
125 9.4 17.1 25.7#



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



#88

Benzo(k)fluoranthene

Concen: 4.39 ng m

RT: 24.52 min Scan# 2028

Delta R.T. 0.01 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

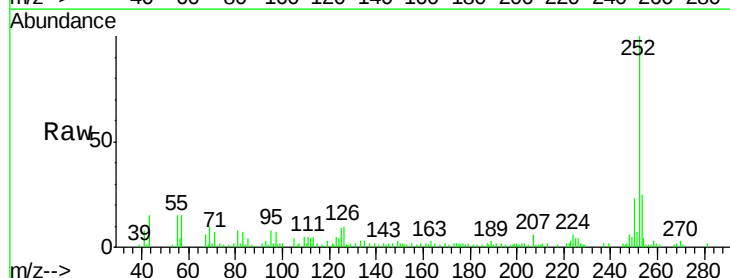
Tgt Ion:252 Resp: 21507

Ion Ratio Lower Upper

252 100

253 24.5 17.0 25.4

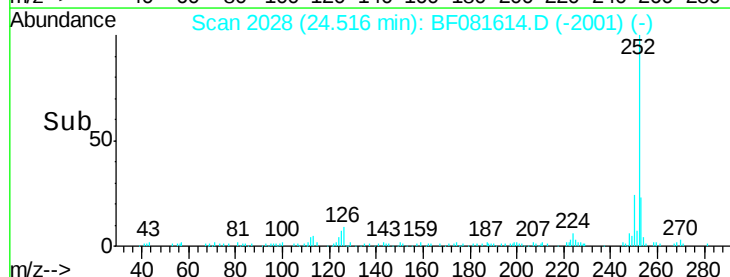
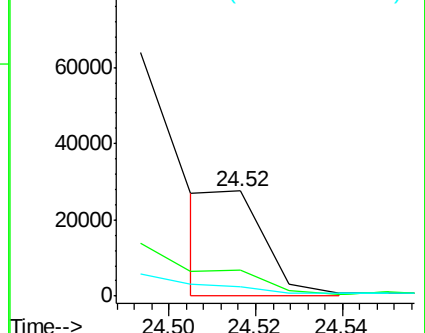
125 9.0 16.0 24.0#

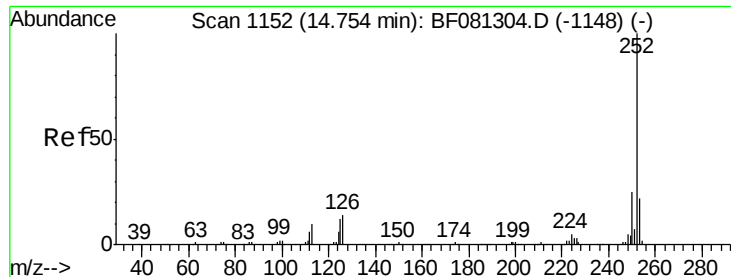


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 10.57 ng

RT: 24.78 min Scan# 2051

Delta R.T. 0.00 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

Instrument :

BNA\_F

ClientSampleId :

GP-8(0-5)

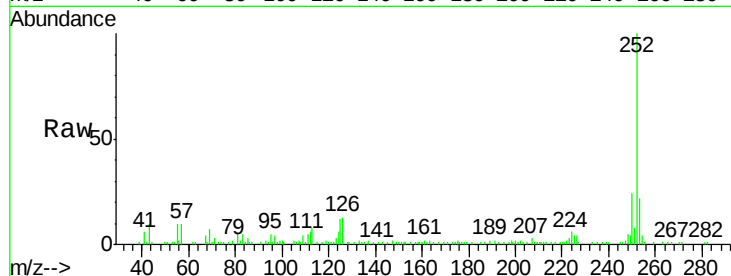
Tgt Ion:252 Resp: 52841

Ion Ratio Lower Upper

252 100

253 22.3 17.2 25.8

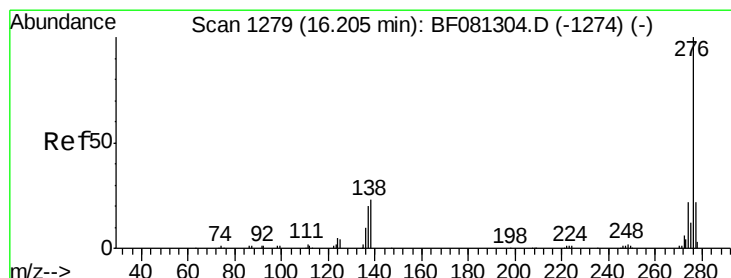
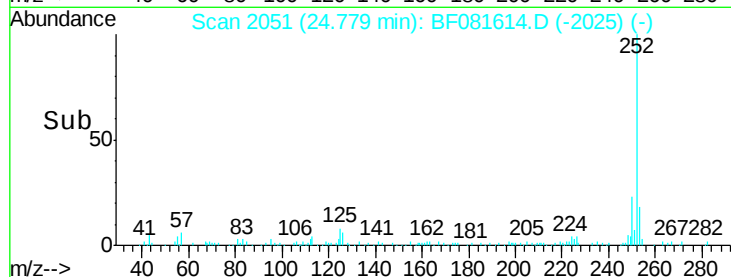
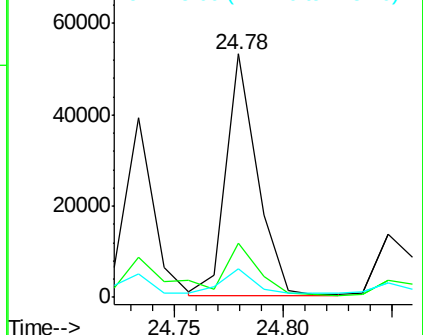
125 11.5 18.0 27.0#



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



#91

Benzo(g,h,i)perylene

Concen: 7.56 ng

RT: 26.19 min Scan# 2174

Delta R.T. 0.00 min

Lab File: BF081614.D

Acq: 14 Sep 2015 18:50

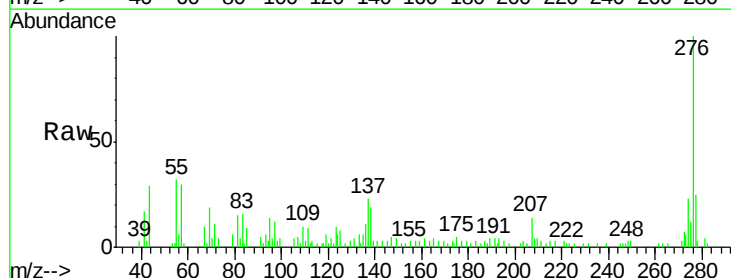
Tgt Ion:276 Resp: 27853

Ion Ratio Lower Upper

276 100

277 24.6 17.8 26.6

138 19.4 34.6 51.8#



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

