

Data Path : Z:\HPCHEM1\BNA F\DATA\BF090515\  
 Data File : BF081517.D  
 Acq On : 6 Sep 2015 18:55  
 Operator : UM/IZ  
 Sample : G3561-02  
 Misc :  
 ALS Vial : 92 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SANDYLOAM

Quant Time: Sep 07 02:10:40 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF090115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 01 17:35:35 2015  
 Response via : Initial Calibration

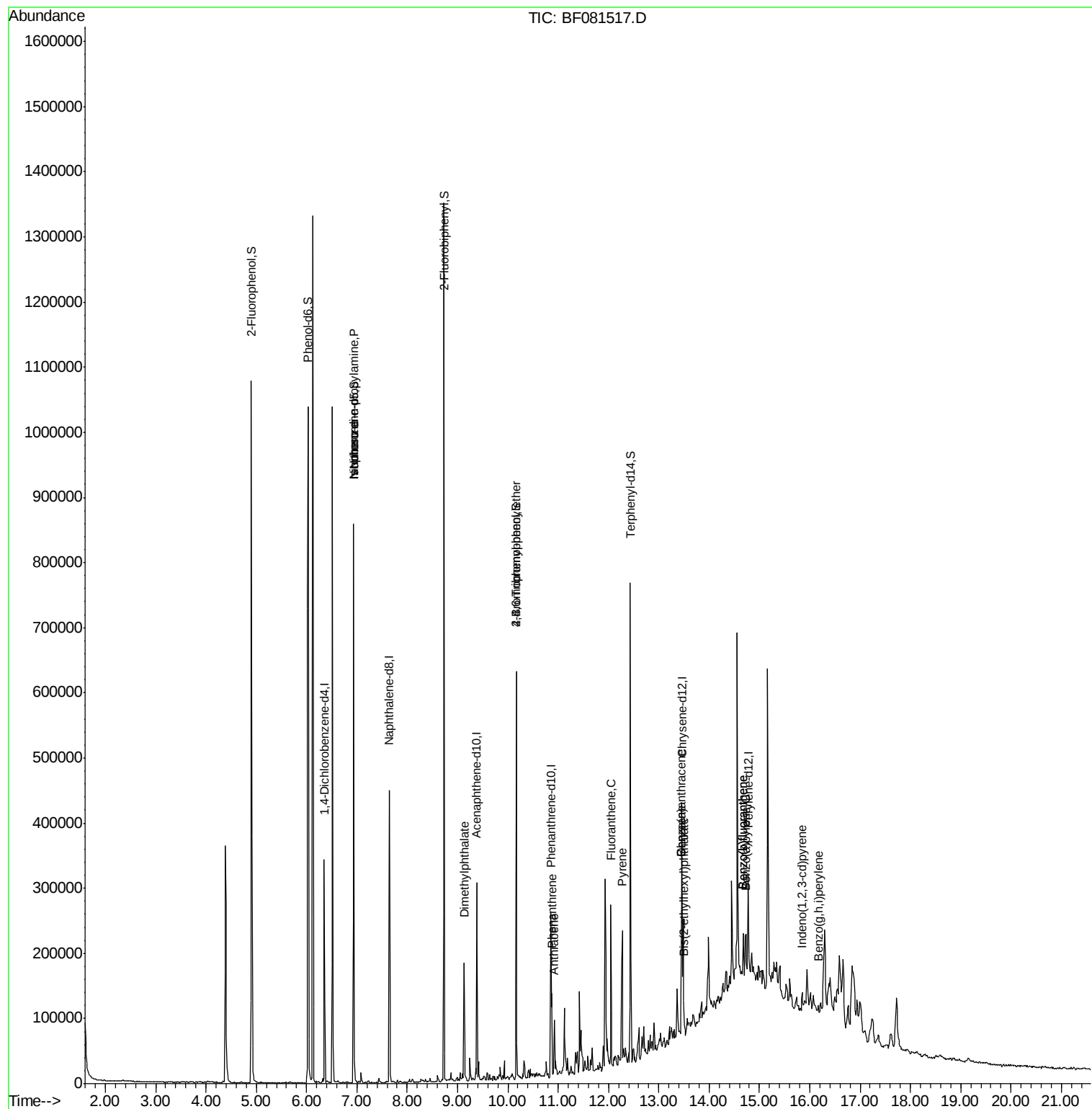
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.35  | 152  | 48642    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 7.64  | 136  | 183876   | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10           | 9.38  | 164  | 75491    | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10           | 10.86 | 188  | 124379   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.46 | 240  | 104580   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12               | 14.78 | 264  | 72459    | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 4.90  | 112  | 284167   | 90.64  | ng    | -0.02    |
| 7) Phenol-d6                   | 6.03  | 99   | 429152   | 103.41 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 6.94  | 82   | 263303   | 69.09  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol       | 10.17 | 330  | 53175    | 79.11  | ng    | -0.03    |
| 44) 2-Fluorobiphenyl           | 8.73  | 172  | 369257   | 62.68  | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.43 | 244  | 200696   | 44.67  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 6.94  | 70   | 35828    | 12.69  | ng    | # 64     |
| 25) Isophorone                 | 6.94  | 82   | 205338   | 28.97  | ng    | # 58     |
| 49) Dimethylphthalate          | 9.13  | 163  | 64441    | 10.99  | ng    | # 96     |
| 66) 4-Bromophenyl-phenylether  | 10.17 | 248  | 4359     | 3.47   | ng    | # 1      |
| 70) Phenanthrene               | 10.88 | 178  | 66140    | 9.57   | ng    | 98       |
| 71) Anthracene                 | 10.92 | 178  | 23252    | 3.27   | ng    | 99       |
| 74) Fluoranthene               | 12.05 | 202  | 105255   | 14.06  | ng    | 90       |
| 77) Pyrene                     | 12.27 | 202  | 103884   | 13.41  | ng    | 98       |
| 80) Benzo(a)anthracene         | 13.45 | 228  | 60008    | 9.01   | ng    | # 90     |
| 82) Chrysene                   | 13.45 | 228  | 60008    | 10.05  | ng    | # 91     |
| 83) Bis(2-ethylhexyl)phthalate | 13.50 | 149  | 11811    | 2.66   | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene     | 15.85 | 276  | 15998    | 3.65   | ng    | # 90     |
| 87) Benzo(b)fluoranthene       | 14.67 | 252  | 21826    | 4.22   | ng    | 97       |
| 88) Benzo(k)fluoranthene       | 14.67 | 252  | 21826    | 5.08   | ng    | 95       |
| 89) Benzo(a)pyrene             | 14.72 | 252  | 32116    | 7.33   | ng    | 94       |
| 91) Benzo(g,h,i)perylene       | 16.17 | 276  | 13711    | 4.24   | ng    | # 75     |

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

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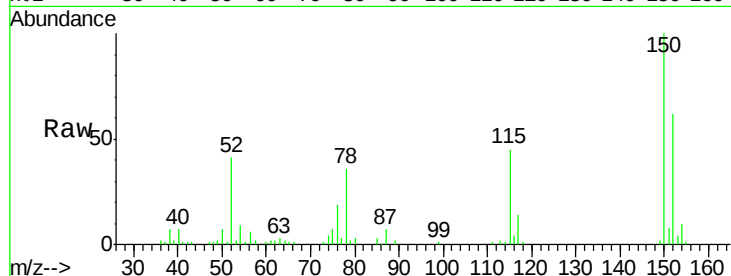


#1

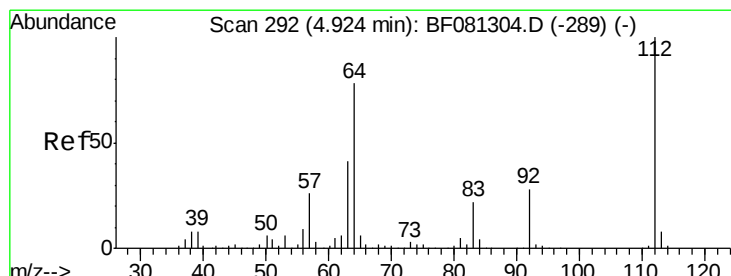
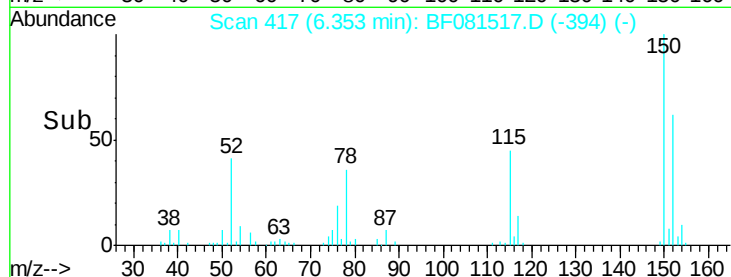
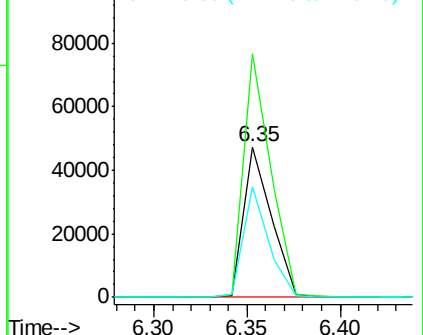
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.35 min Scan# 417  
Delta R.T. -0.03 min  
Lab File: BF081517.D  
Acq: 6 Sep 2015 18:55

Instrument :  
BNA\_F  
ClientSampleId :  
SANDYLOAM

Tot Ion:152 Resp: 48642  
Ion Ratio Lower Upper  
152 100  
150 161.5 124.7 187.1  
115 72.9 39.0 58.4#



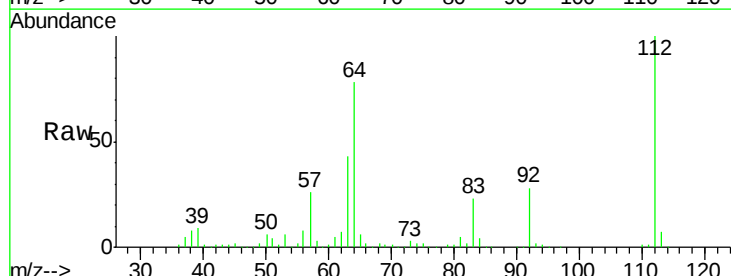
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



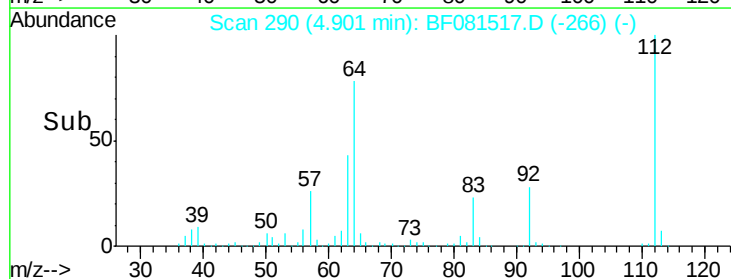
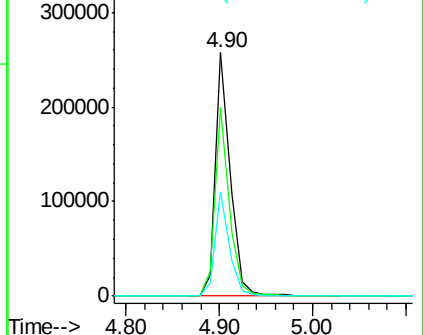
#5

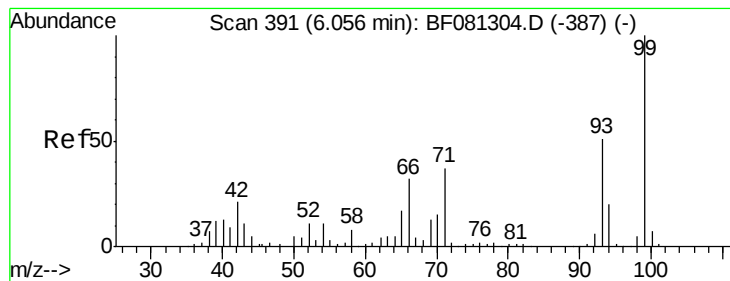
2-Fluorophenol  
Concen: 90.64 ng  
RT: 4.90 min Scan# 290  
Delta R.T. -0.02 min  
Lab File: BF081517.D  
Acq: 6 Sep 2015 18:55

Tgt Ion:112 Resp: 284167  
Ion Ratio Lower Upper  
112 100  
64 77.7 39.7 59.5#  
63 42.7 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: 103.41 ng

RT: 6.03 min Scan# 389

Delta R.T. -0.02 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

Instrument :

BNA\_F

ClientSampleId :

SANDYLOAM

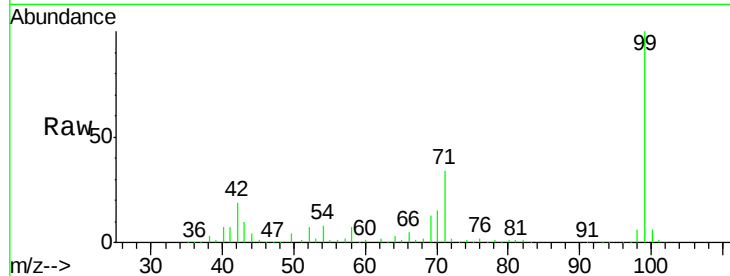
Tot Ion: 99 Resp: 429152

Ion Ratio Lower Upper

99 100

42 18.7 13.7 20.5

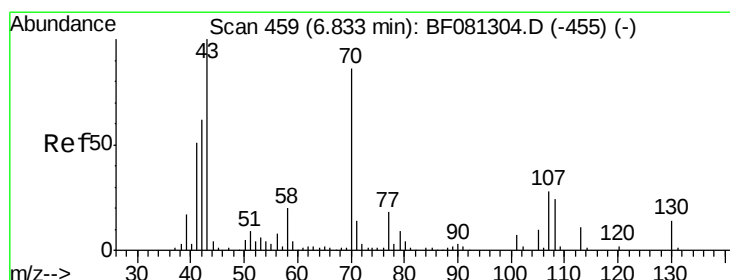
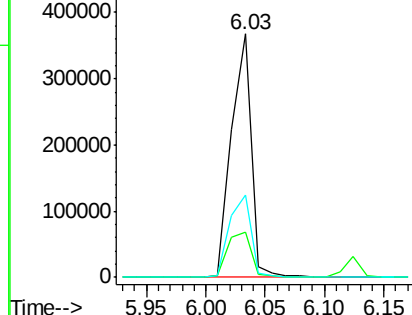
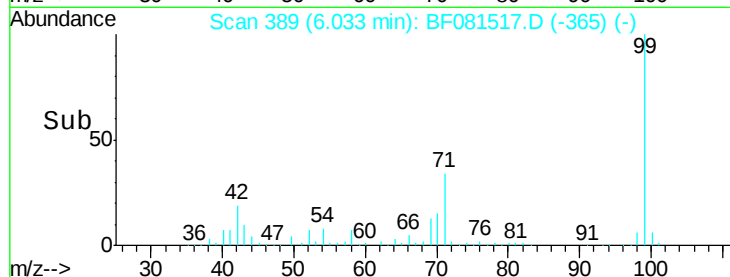
71 33.8 14.2 21.2#



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



#19

n-Nitroso-di-n-propylamine

Concen: 12.69 ng

RT: 6.94 min Scan# 468

Delta R.T. 0.10 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

Tgt Ion: 70 Resp: 35828

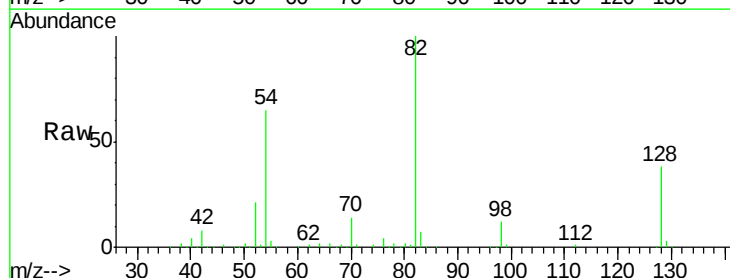
Ion Ratio Lower Upper

70 100

42 55.1 63.8 95.6#

101 0.0 9.2 13.8#

130 1.7 27.3 40.9#

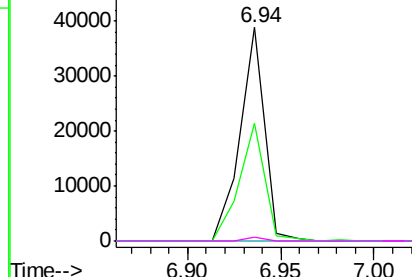
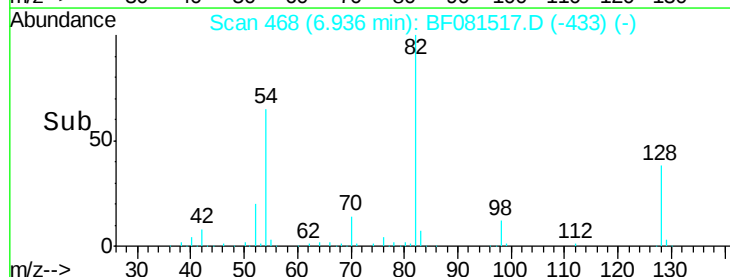


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.64 min Scan# 530

Delta R.T. -0.03 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

Instrument :

BNA\_F

ClientSampleId :

SANDYLOAM

Tot Ion:136 Resp: 183876

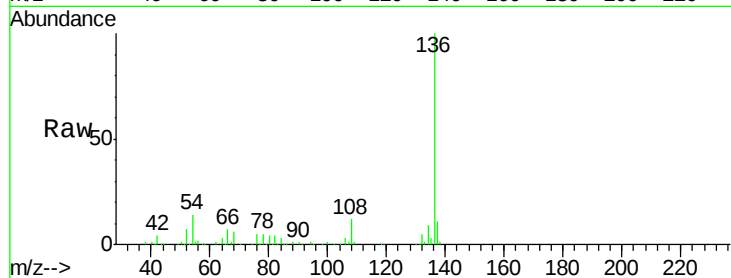
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.6

54 13.6 8.2 12.2#

68 5.6 5.8 8.6#

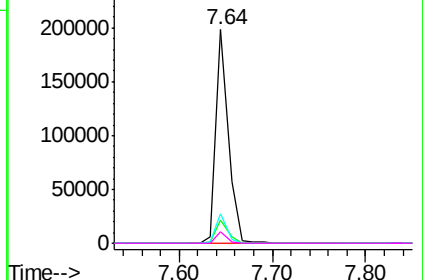
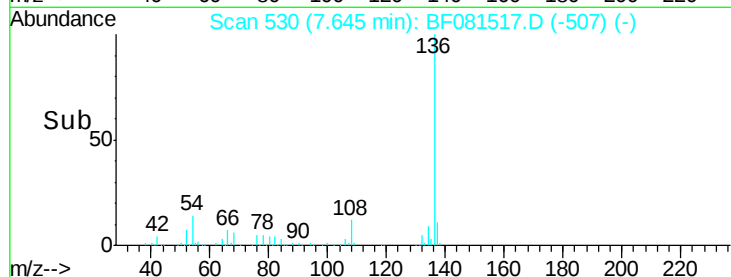


Abundance Ion 136.00 (135.70 to 136.70): E

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: 69.09 ng

RT: 6.94 min Scan# 468

Delta R.T. -0.03 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

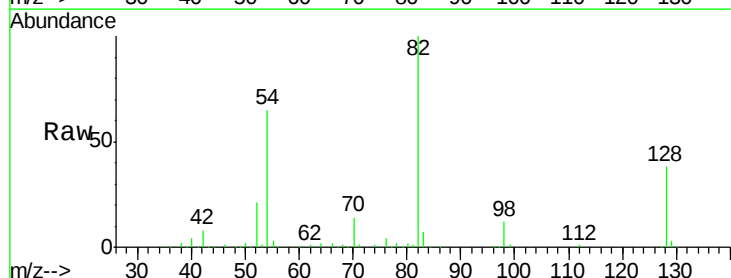
Tgt Ion: 82 Resp: 263303

Ion Ratio Lower Upper

82 100

128 37.6 51.0 76.6#

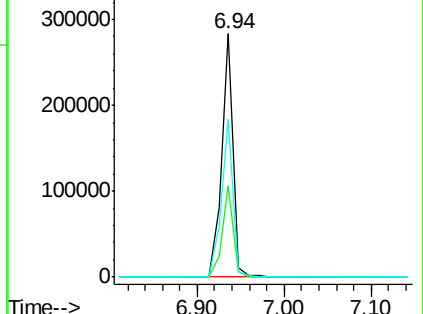
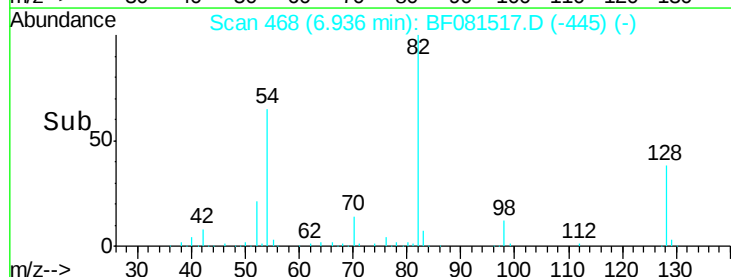
54 64.9 47.5 71.3

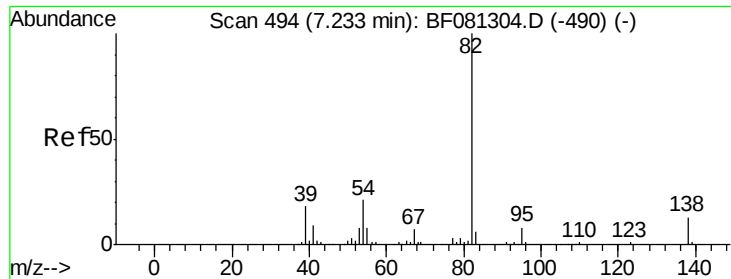


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 28.97 ng

RT: 6.94 min Scan# 468

Delta R.T. -0.30 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

Instrument :

BNA\_F

ClientSampleId :

SANDYLOAM

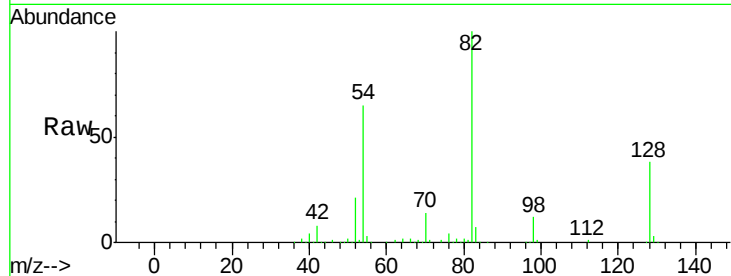
Tot Ion: 82 Resp: 205338

Ion Ratio Lower Upper

82 100

95 0.0 4.0 6.0#

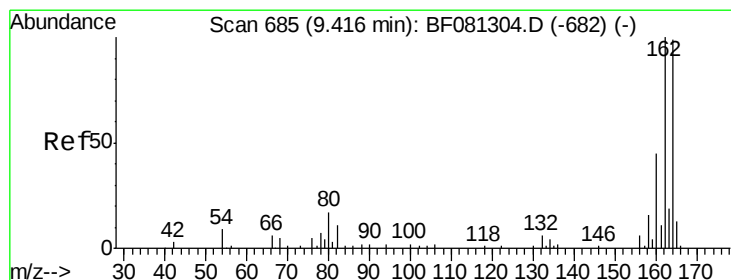
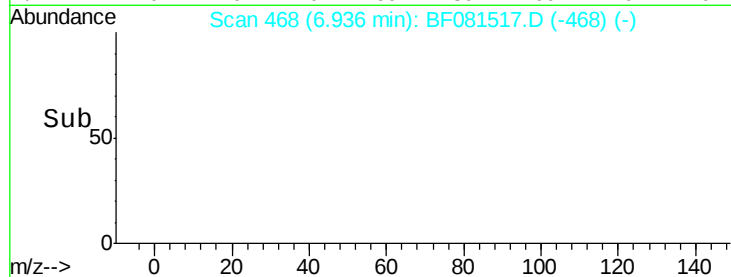
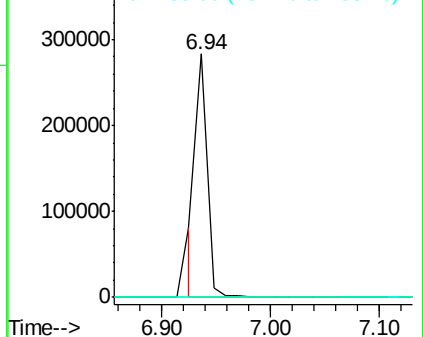
138 0.0 18.3 27.5#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.38 min Scan# 682

Delta R.T. -0.03 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

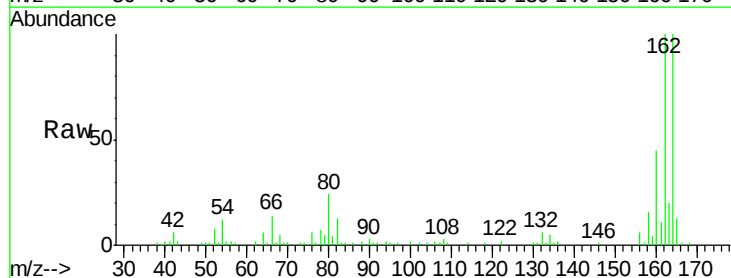
Tgt Ion: 164 Resp: 75491

Ion Ratio Lower Upper

164 100

162 99.5 75.2 112.8

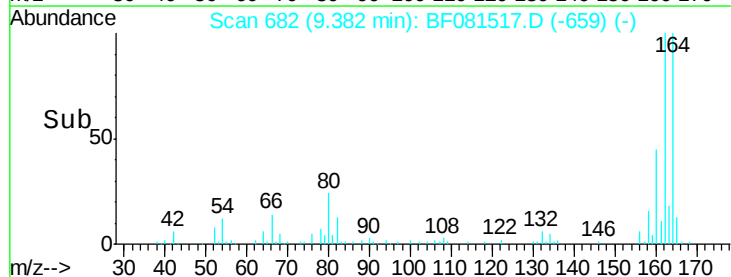
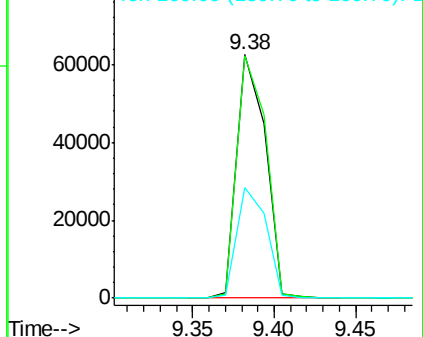
160 45.3 31.5 47.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

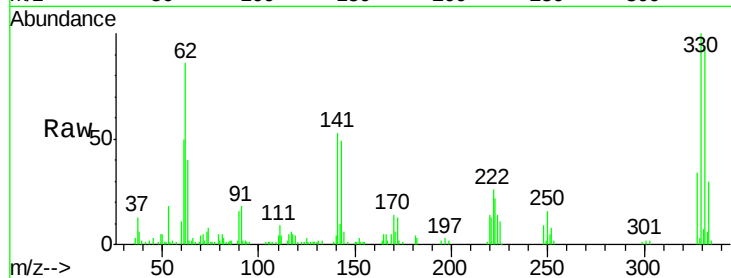




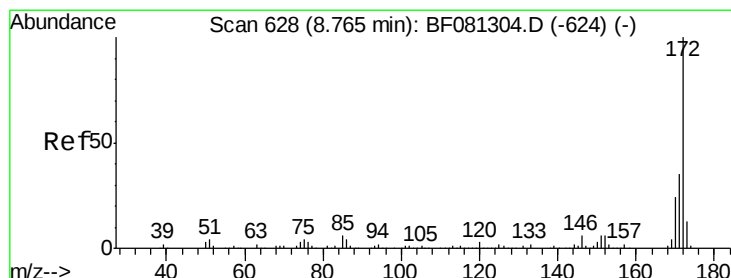
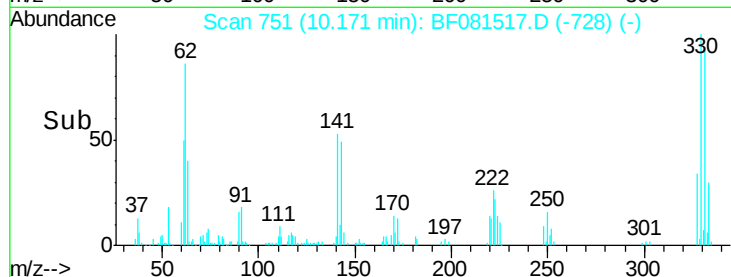
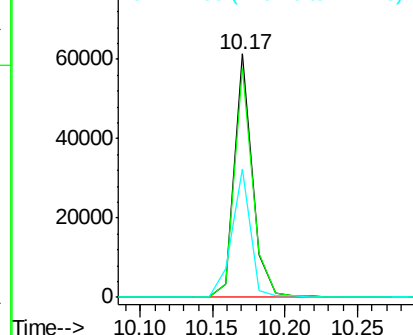
#41  
 2,4,6-Tribromophenol  
 Concen: 79.11 ng  
 RT: 10.17 min Scan# 751  
 Delta R.T. -0.03 min  
 Lab File: BF081517.D  
 Acq: 6 Sep 2015 18:55

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SANDYLOAM

Tot Ion:330 Resp: 53175  
 Ion Ratio Lower Upper  
 330 100  
 332 95.4 76.6 114.8  
 141 54.0 29.7 44.5#

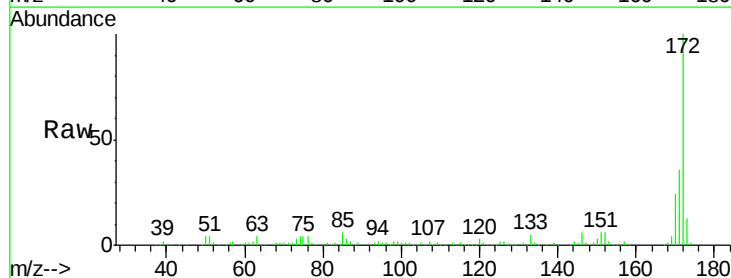


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

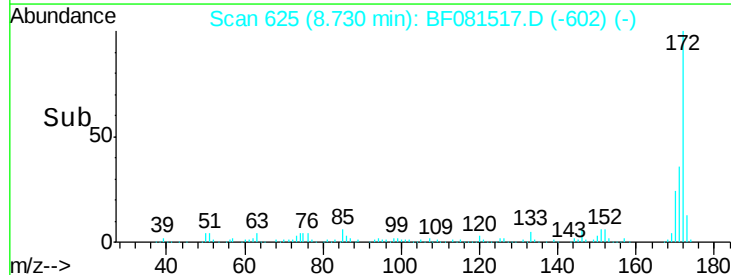
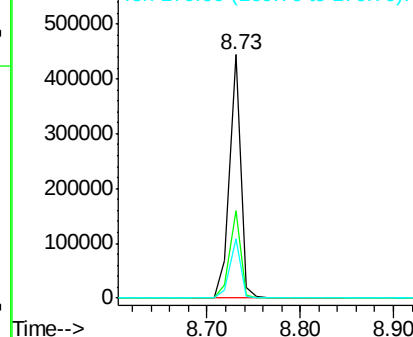


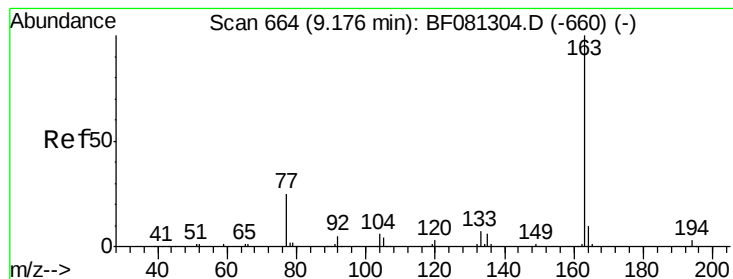
#44  
 2-Fluorobiphenyl  
 Concen: 62.68 ng  
 RT: 8.73 min Scan# 625  
 Delta R.T. -0.03 min  
 Lab File: BF081517.D  
 Acq: 6 Sep 2015 18:55

Tgt Ion:172 Resp: 369257  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 26.1 39.1  
 170 24.3 17.4 26.2



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





#49

Dimethylphthalate

Concen: 10.99 ng

RT: 9.13 min Scan# 660

Delta R.T. -0.05 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

Instrument :

BNA\_F

ClientSampleId :

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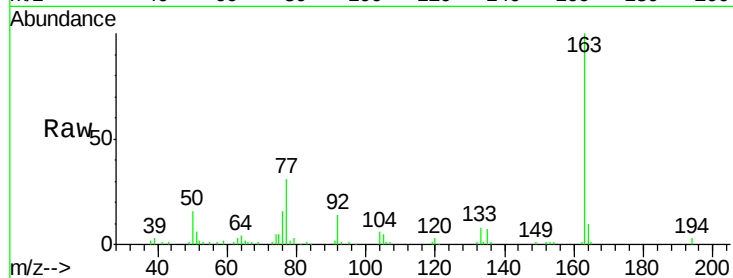
Tot Ion:163 Resp: 64441

Ion Ratio Lower Upper

163 100

194 2.9 4.4 6.6#

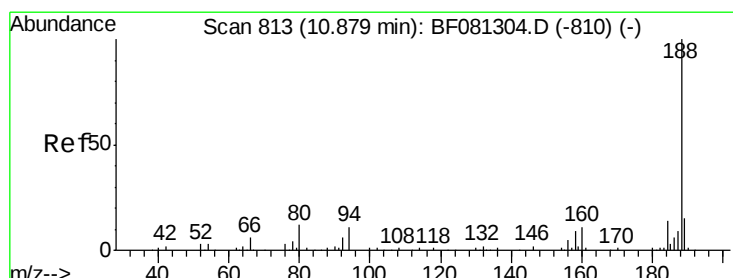
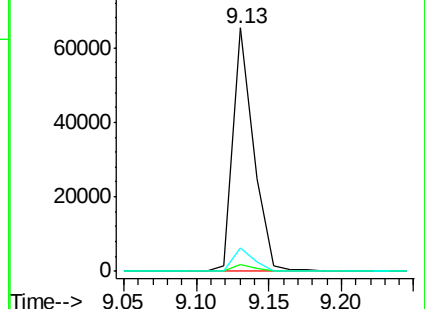
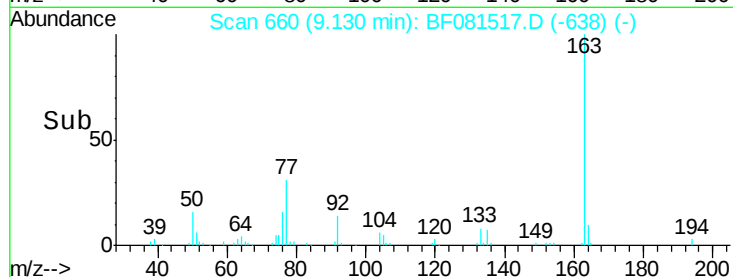
164 9.9 8.3 12.5



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: 10.86 min Scan# 811

Delta R.T. -0.02 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

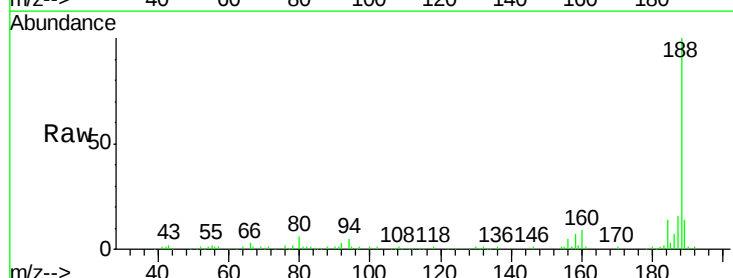
Tgt Ion:188 Resp: 124379

Ion Ratio Lower Upper

188 100

94 5.3 11.1 16.7#

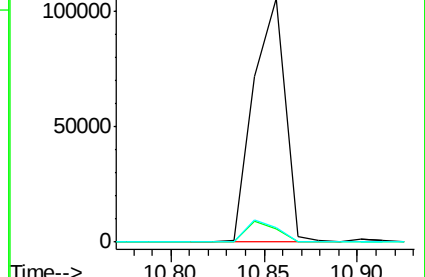
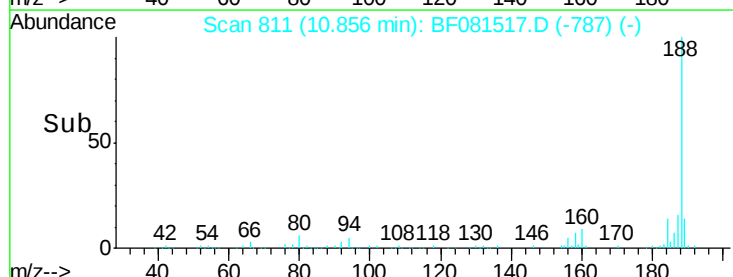
80 5.7 11.0 16.4#

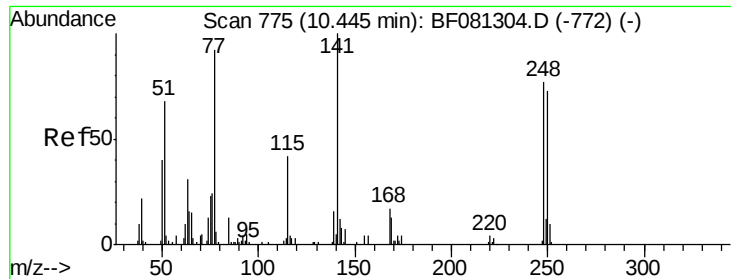


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

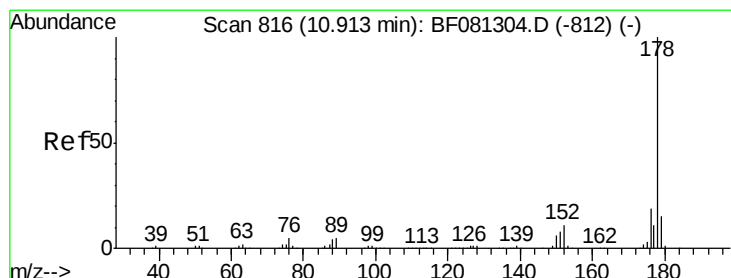
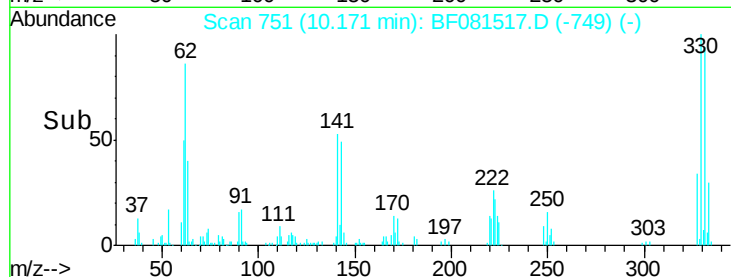
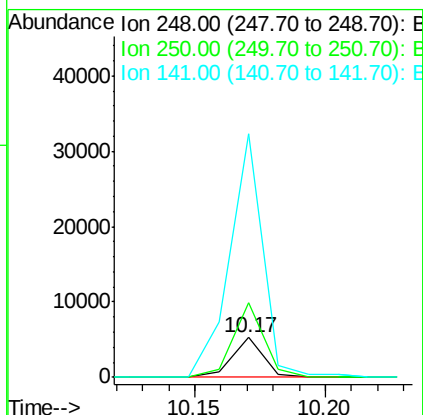
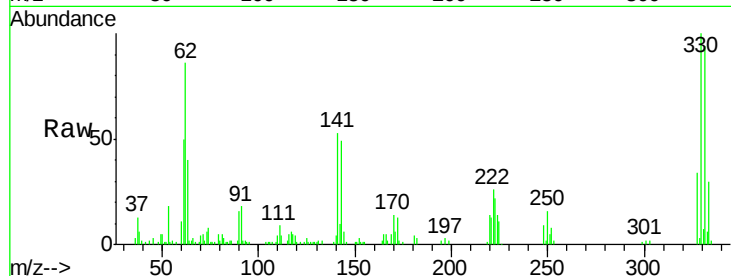




#66  
4-Bromophenyl-phenylether  
Concen: 3.47 ng  
RT: 10.17 min Scan# 751  
Delta R.T. -0.27 min  
Lab File: BF081517.D  
Acq: 6 Sep 2015 18:55

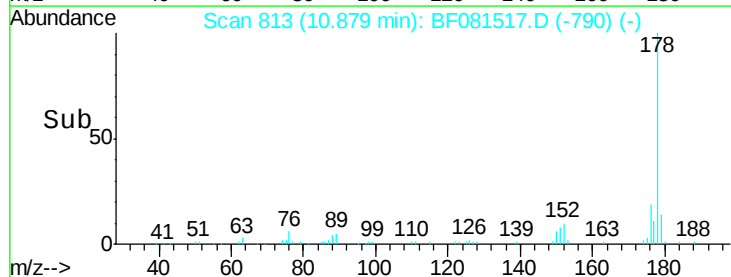
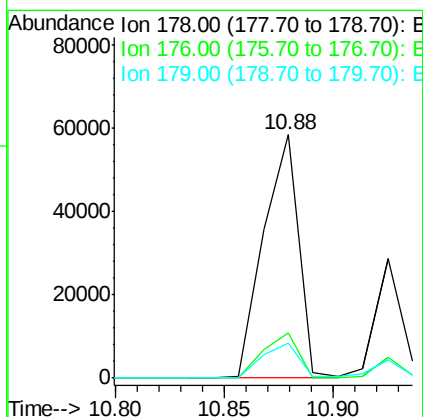
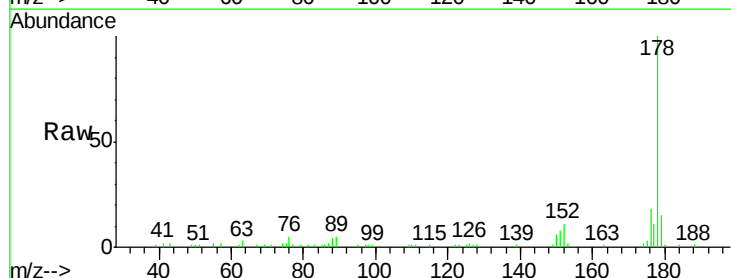
Instrument :  
BNA\_F  
ClientSampleId :  
SANDYLOAM

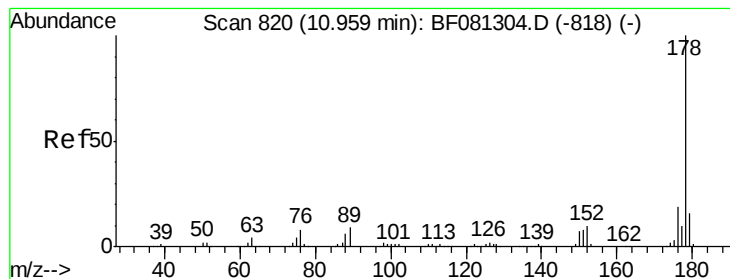
Tot Ion:248 Resp: 4359  
Ion Ratio Lower Upper  
248 100  
250 186.6 78.5 117.7#  
141 613.5 59.0 88.6#



#70  
Phenanthrene  
Concen: 9.57 ng  
RT: 10.88 min Scan# 813  
Delta R.T. -0.03 min  
Lab File: BF081517.D  
Acq: 6 Sep 2015 18:55

Tgt Ion:178 Resp: 66140  
Ion Ratio Lower Upper  
178 100  
176 18.4 13.8 20.8  
179 14.6 12.2 18.2





#71

Anthracene

Concen: 3.27 ng

RT: 10.92 min Scan# 817

Delta R.T. -0.03 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

Instrument :

BNA\_F

ClientSampleId :

SANDYLOAM

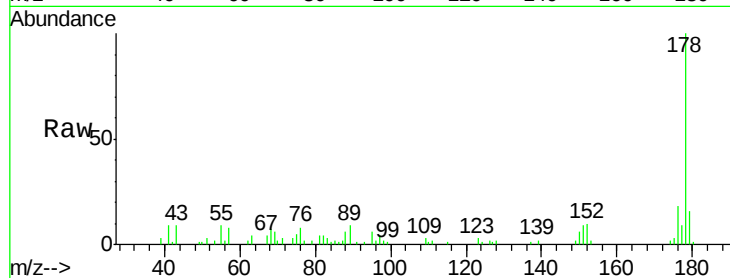
Tot Ion:178 Resp: 23252

Ion Ratio Lower Upper

178 100

176 17.7 14.1 21.1

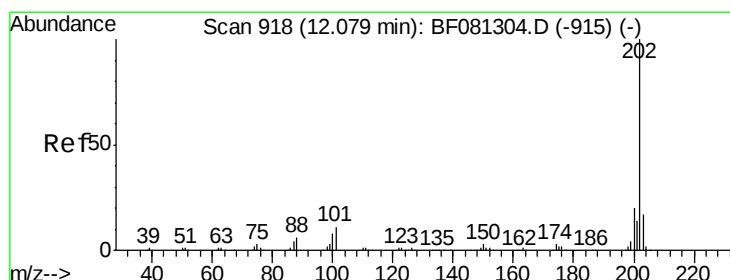
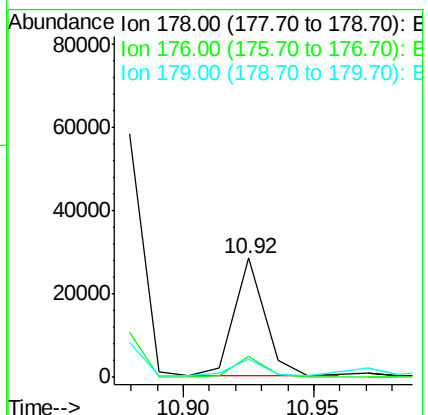
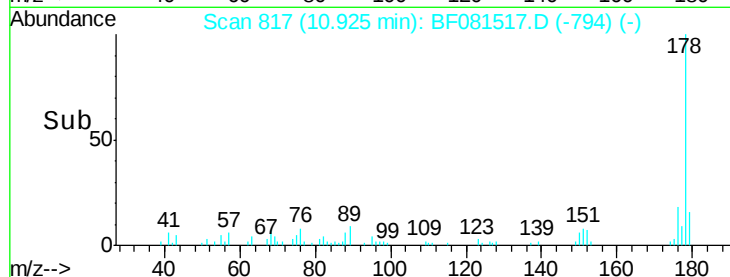
179 15.8 12.2 18.2



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



#74

Fluoranthene

Concen: 14.06 ng

RT: 12.05 min Scan# 915

Delta R.T. -0.03 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

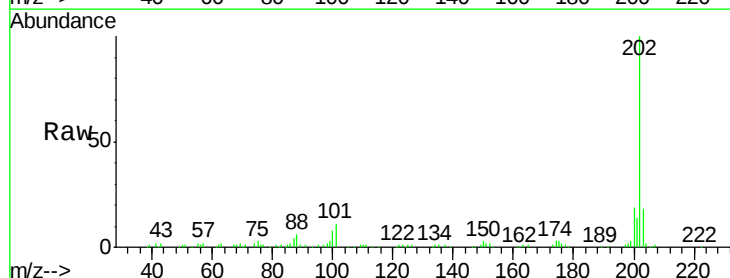
Tgt Ion:202 Resp: 105255

Ion Ratio Lower Upper

202 100

101 10.6 0.0 38.3

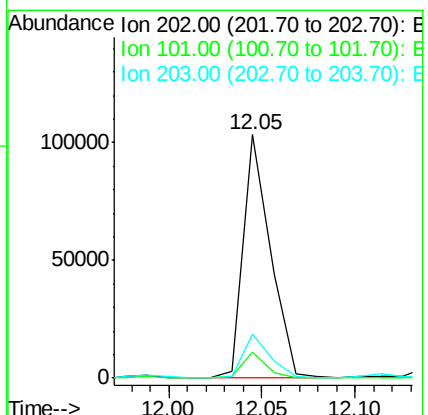
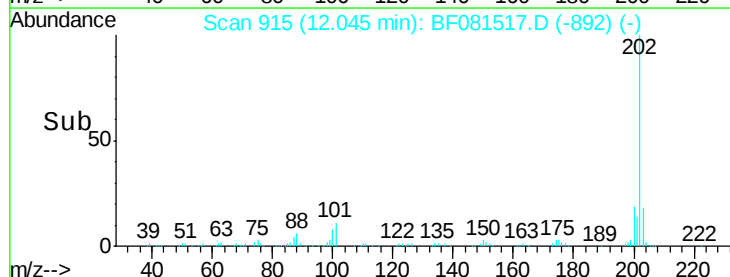
203 17.9 0.0 37.3

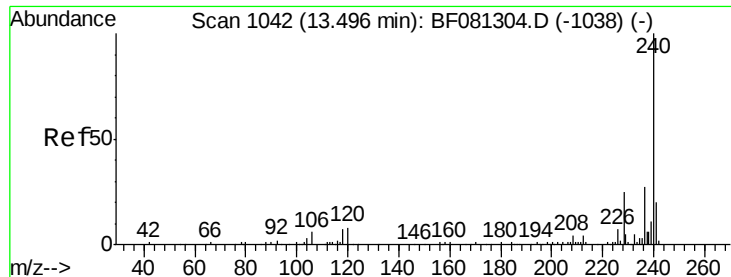


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.46 min Scan# 1039

Delta R.T. -0.03 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

Instrument :

BNA\_F

ClientSampleId :

SANDYLOAM

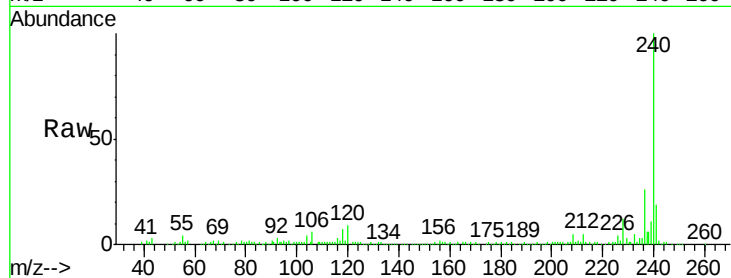
Tot Ion:240 Resp: 104580

Ion Ratio Lower Upper

240 100

120 8.7 16.2 24.2#

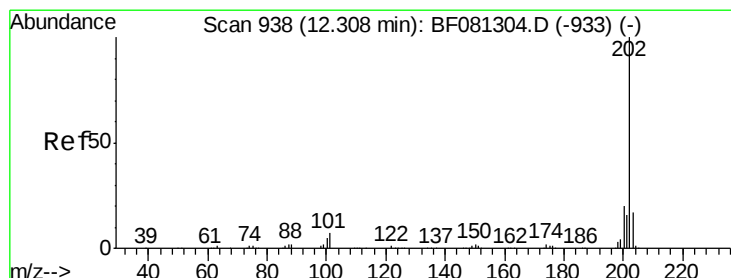
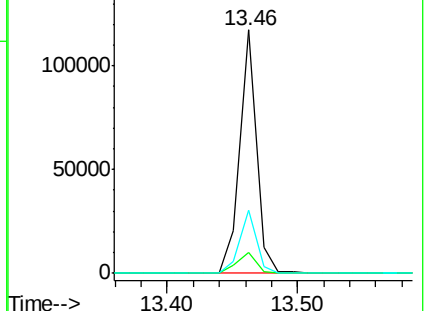
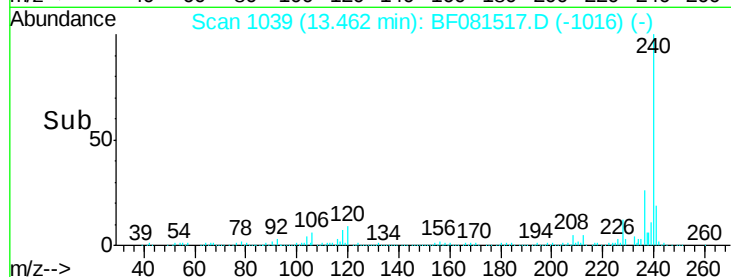
236 25.9 18.4 27.6



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: 13.41 ng

RT: 12.27 min Scan# 935

Delta R.T. -0.03 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

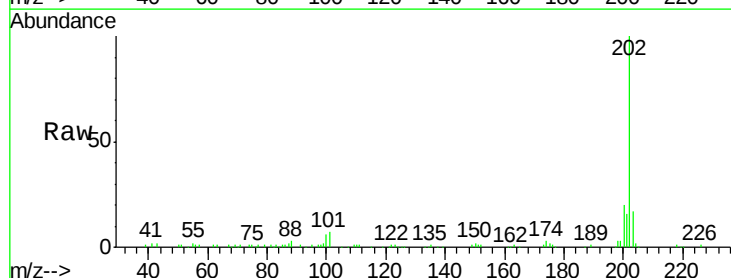
Tgt Ion:202 Resp: 103884

Ion Ratio Lower Upper

202 100

200 19.9 15.0 22.4

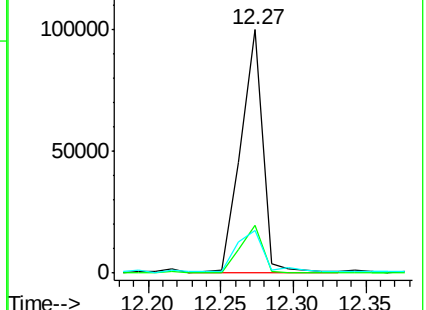
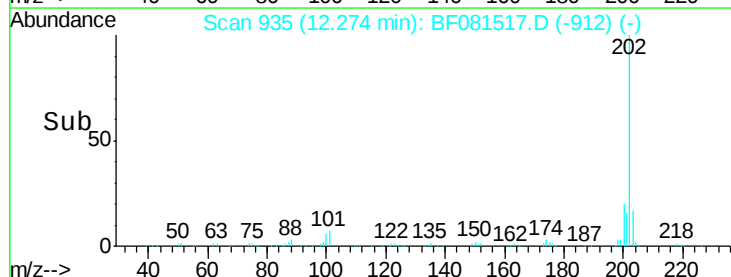
203 17.4 14.1 21.1

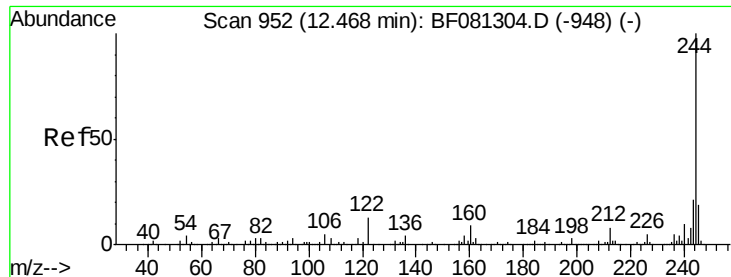


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

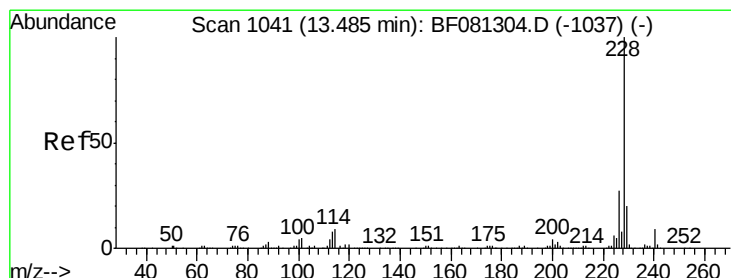
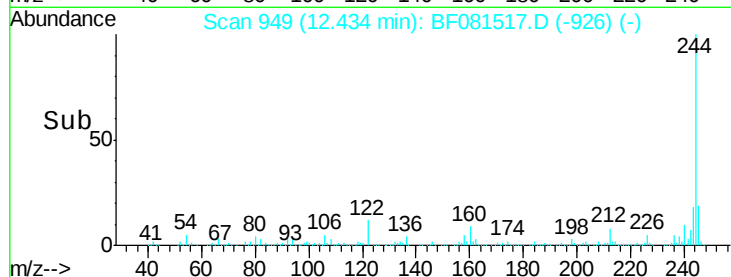
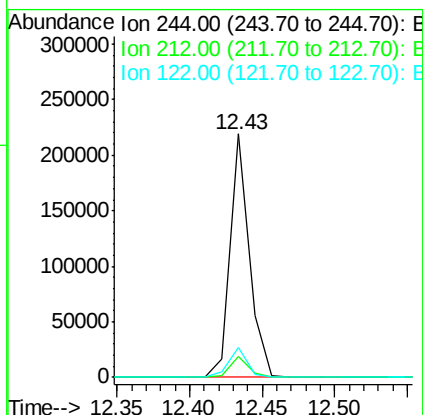
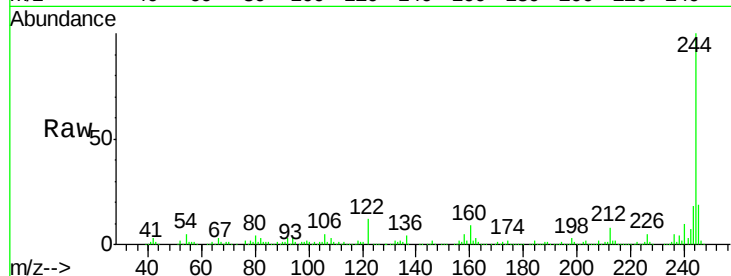




#78  
 Terphenyl-d14  
 Concen: 44.67 ng  
 RT: 12.43 min Scan# 949  
 Delta R.T. -0.03 min  
 Lab File: BF081517.D  
 Acq: 6 Sep 2015 18:55

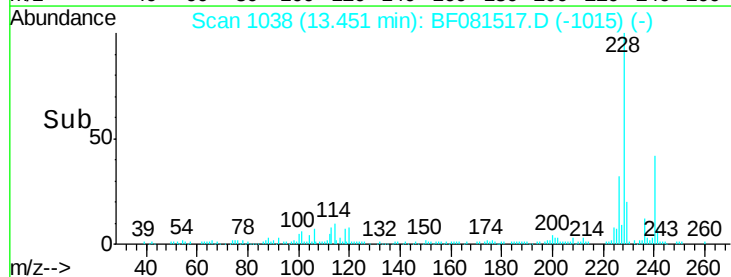
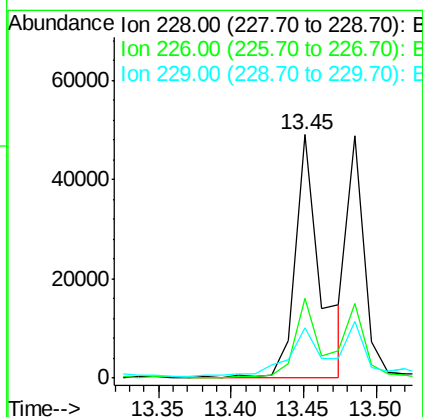
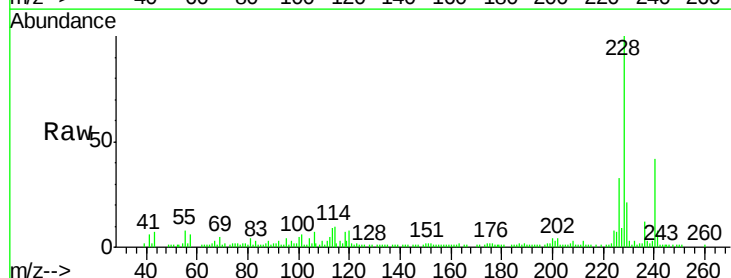
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SANDYLOAM

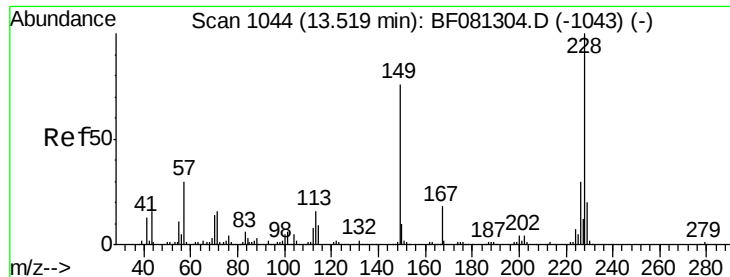
Tot Ion:244 Resp: 200696  
 Ion Ratio Lower Upper  
 244 100  
 212 8.4 4.3 6.5#  
 122 12.5 17.4 26.2#



#80  
 Benzo(a)anthracene  
 Concen: 9.01 ng  
 RT: 13.45 min Scan# 1038  
 Delta R.T. -0.03 min  
 Lab File: BF081517.D  
 Acq: 6 Sep 2015 18:55

Tgt Ion:228 Resp: 60008  
 Ion Ratio Lower Upper  
 228 100  
 226 33.0 20.0 30.0#  
 229 20.7 15.4 23.2

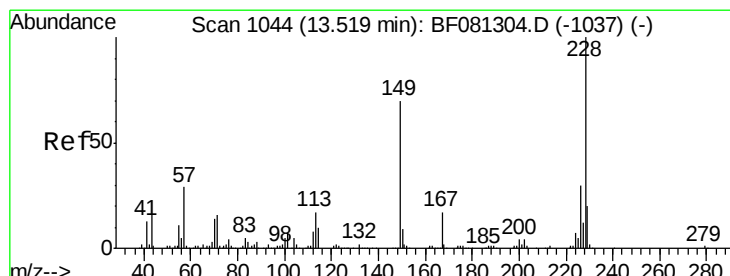
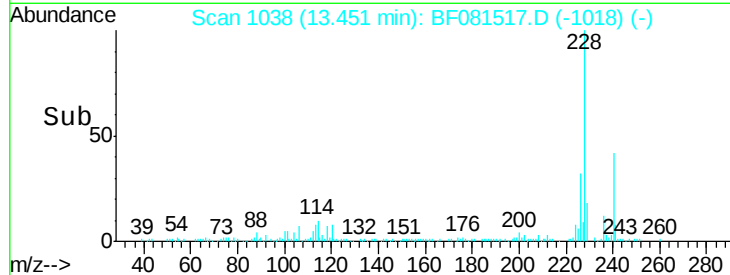
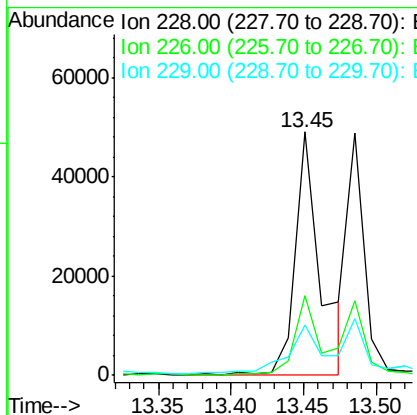
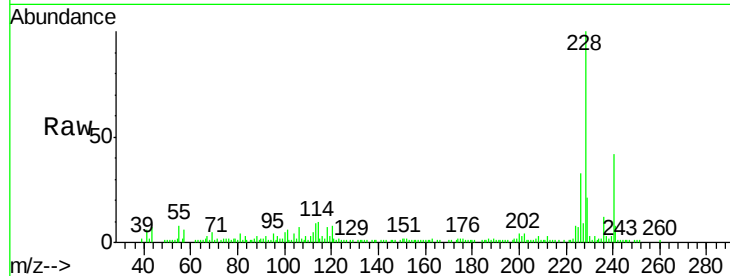




#82  
 Chrysene  
 Concen: 10.05 ng  
 RT: 13.45 min Scan# 1038  
 Delta R.T. -0.07 min  
 Lab File: BF081517.D  
 Acq: 6 Sep 2015 18:55

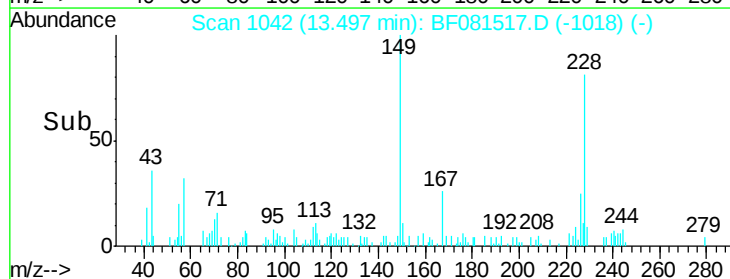
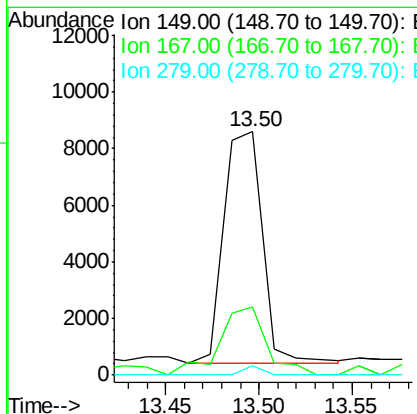
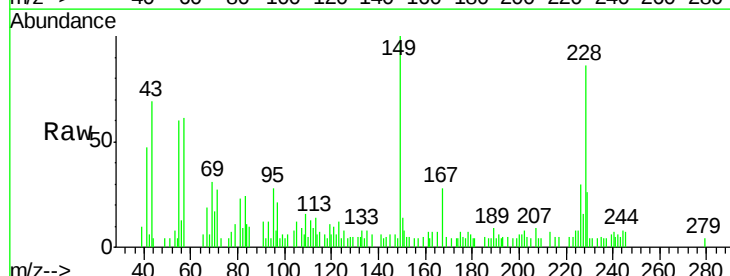
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SANDYLOAM

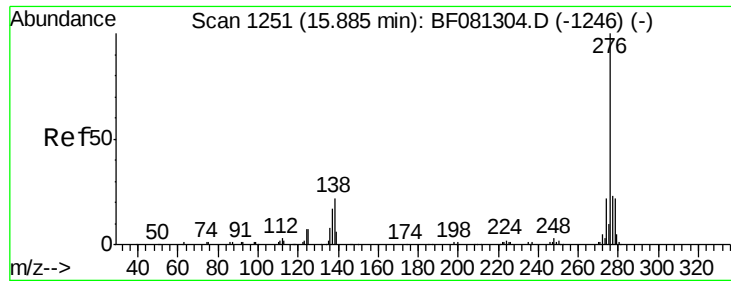
|             |       |            |
|-------------|-------|------------|
| Tot Ion:228 | Resp: | 60008      |
| Ion Ratio   | Lower | Upper      |
| 228         | 100   |            |
| 226         | 33.0  | 21.0 31.4# |
| 229         | 20.7  | 15.6 23.4  |



#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 2.66 ng  
 RT: 13.50 min Scan# 1042  
 Delta R.T. -0.02 min  
 Lab File: BF081517.D  
 Acq: 6 Sep 2015 18:55

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:149 | Resp: | 11811     |
| Ion Ratio   | Lower | Upper     |
| 149         | 100   |           |
| 167         | 27.9  | 24.2 36.2 |
| 279         | 4.1   | 3.8 5.6   |





#85

Indeno(1,2,3-cd)pyrene

Concen: 3.65 ng

RT: 15.85 min Scan# 1248

Delta R.T. -0.03 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

Instrument :

BNA\_F

ClientSampleId :

SANDYLOAM

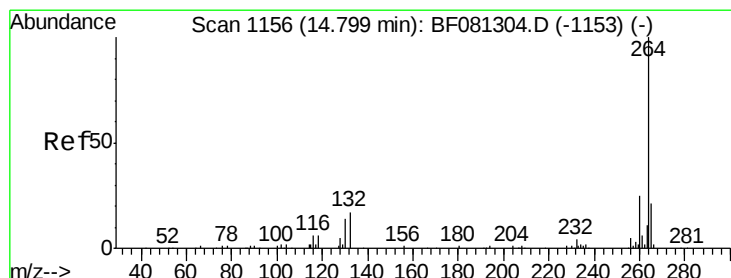
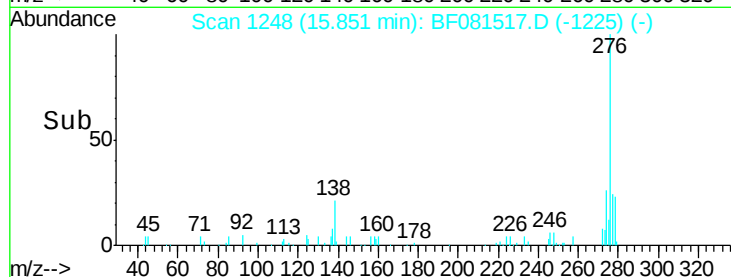
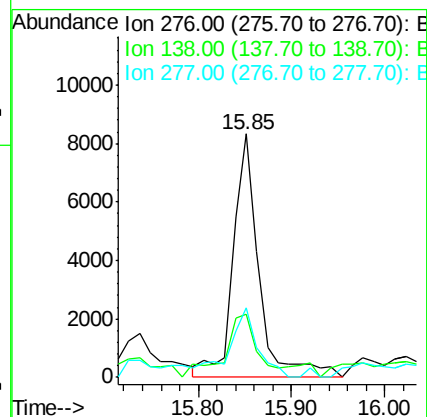
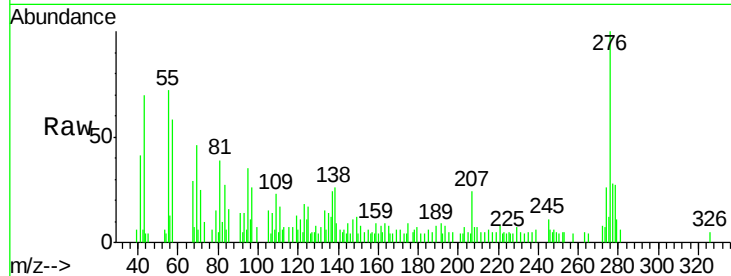
Tot Ion:276 Resp: 15998

Ion Ratio Lower Upper

276 100

138 32.5 25.7 38.5

277 31.4 15.6 23.4#



#86

Perylene-d12

Concen: 20.00 ng

RT: 14.78 min Scan# 1154

Delta R.T. -0.02 min

Lab File: BF081517.D

Acq: 6 Sep 2015 18:55

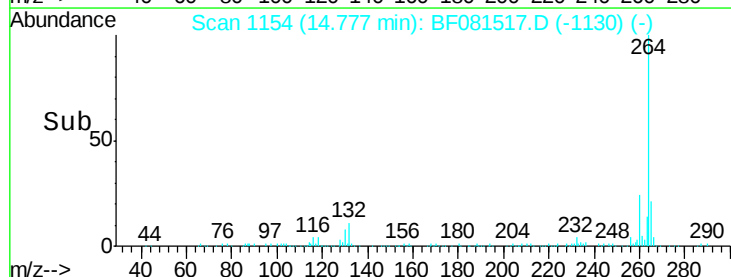
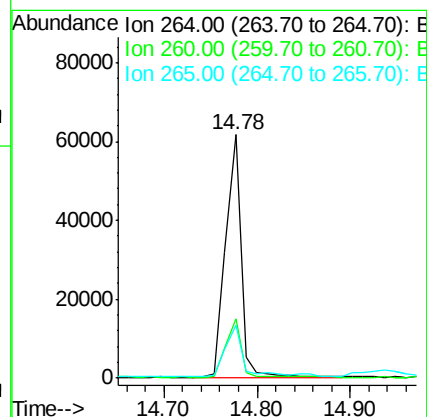
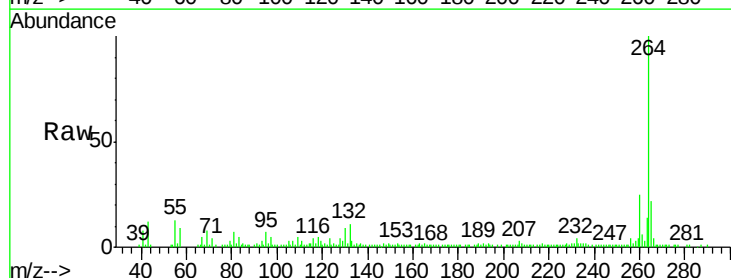
Tgt Ion:264 Resp: 72459

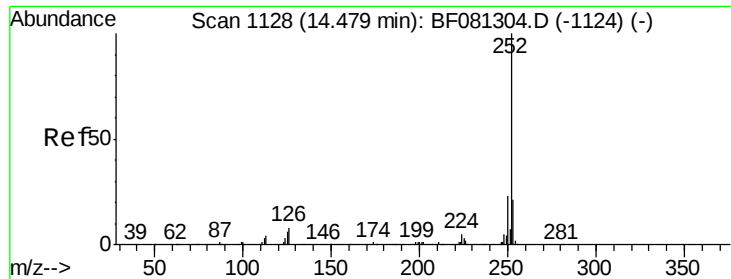
Ion Ratio Lower Upper

264 100

260 24.5 16.7 25.1

265 21.8 17.2 25.8

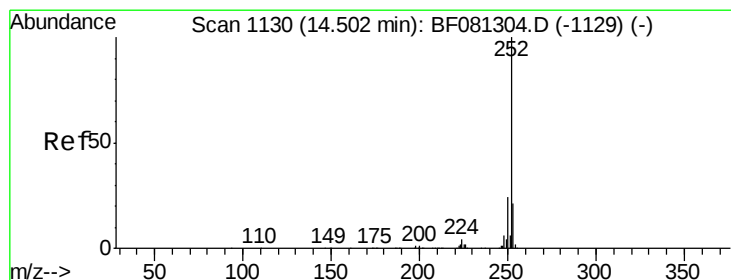
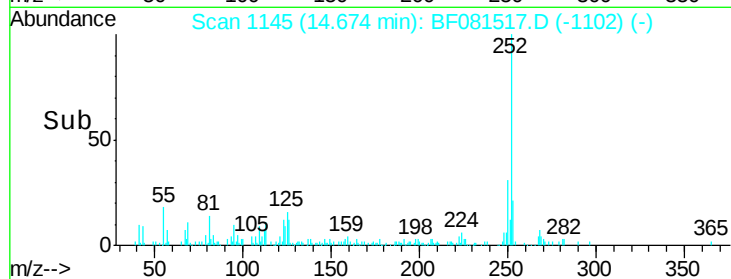
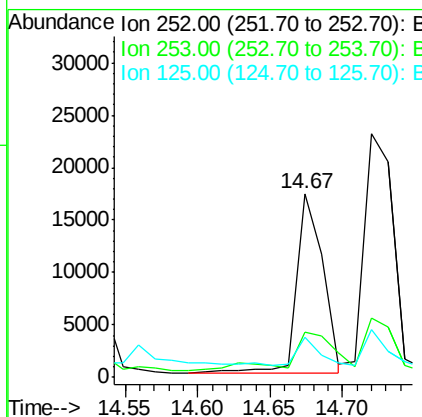
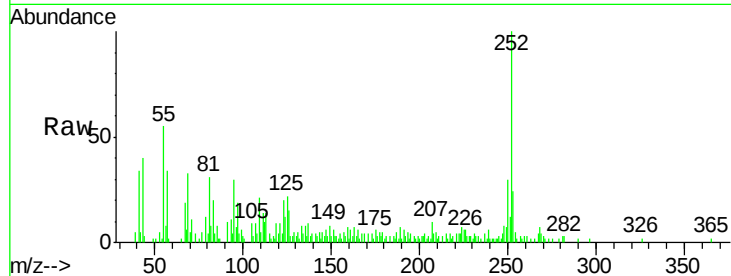




#87  
Benzo(b)fluoranthene  
Concen: 4.22 ng  
RT: 14.67 min Scan# 1145  
Delta R.T. 0.19 min  
Lab File: BF081517.D  
Acq: 6 Sep 2015 18:55

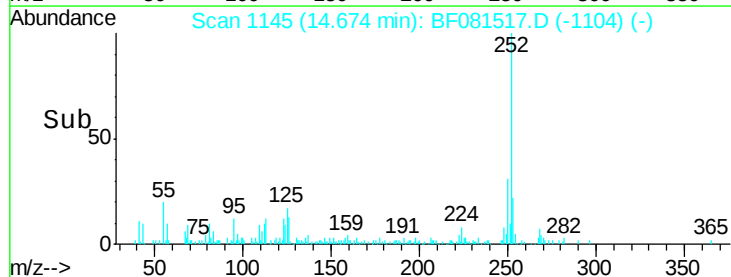
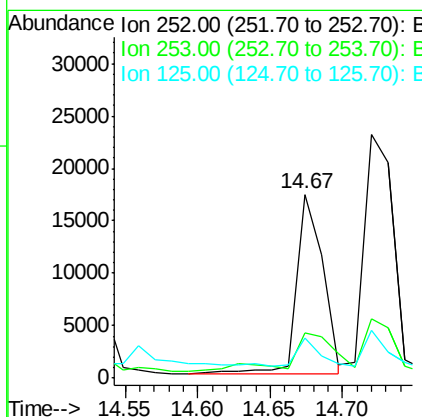
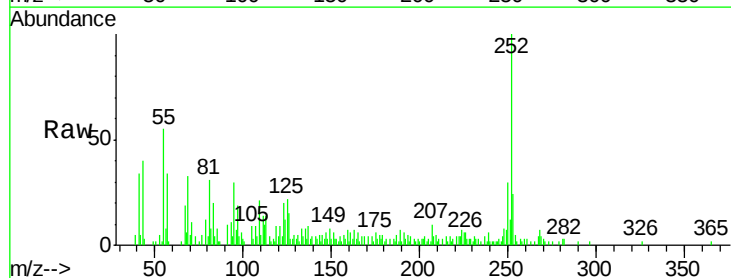
Instrument :  
BNA\_F  
ClientSampleId :  
SANDYLOAM

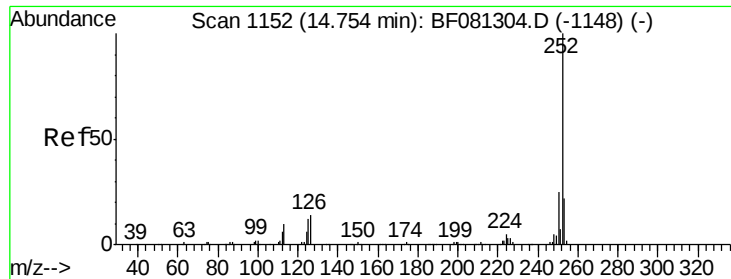
Tot Ion:252 Resp: 21826  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.5 26.3  
125 21.6 17.1 25.7



#88  
Benzo(k)fluoranthene  
Concen: 5.08 ng  
RT: 14.67 min Scan# 1145  
Delta R.T. 0.17 min  
Lab File: BF081517.D  
Acq: 6 Sep 2015 18:55

Tgt Ion:252 Resp: 21826  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.0 25.4  
125 21.6 16.0 24.0

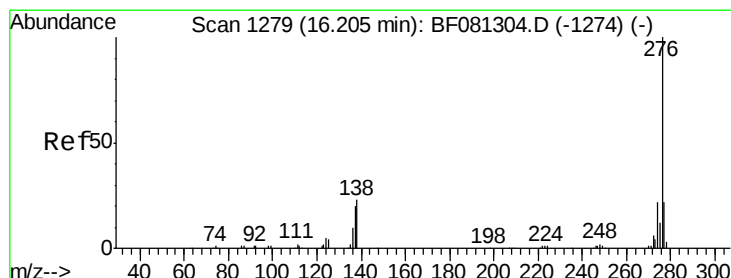
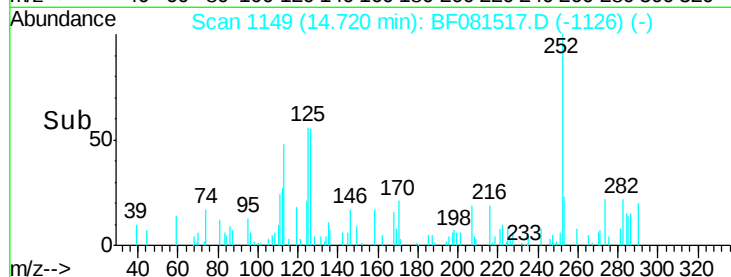
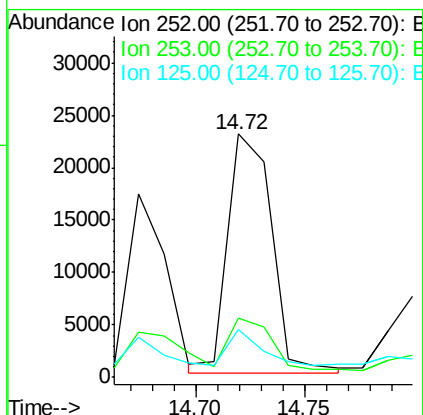
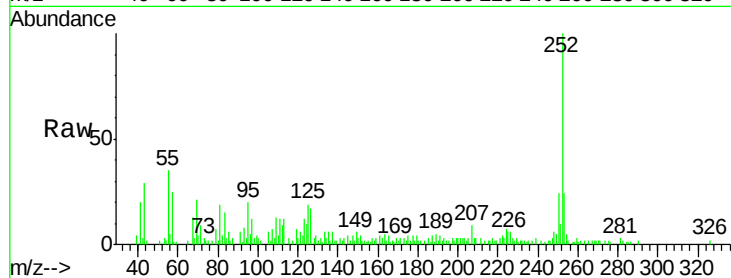




#89  
Benzo(a)pyrene  
Concen: 7.33 ng  
RT: 14.72 min Scan# 1149  
Delta R.T. -0.03 min  
Lab File: BF081517.D  
Acq: 6 Sep 2015 18:55

Instrument :  
BNA\_F  
ClientSampleId :  
SANDYLOAM

Tot Ion:252 Resp: 32116  
Ion Ratio Lower Upper  
252 100  
253 24.3 17.2 25.8  
125 19.5 18.0 27.0



#91  
Benzo(g,h,i)perylene  
Concen: 4.24 ng  
RT: 16.17 min Scan# 1276  
Delta R.T. -0.03 min  
Lab File: BF081517.D  
Acq: 6 Sep 2015 18:55

Tgt Ion:276 Resp: 13711  
Ion Ratio Lower Upper  
276 100  
277 30.0 17.8 26.6#  
138 24.3 34.6 51.8#

