

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\  
 Data File : BF083187.D  
 Acq On : 23 Nov 2015 5:01  
 Operator : UM/IZ  
 Sample : G4475-05  
 Misc :  
 ALS Vial : 73 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 H5

Quant Time: Nov 23 06:40:29 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 09:22:46 2015  
 Response via : Initial Calibration

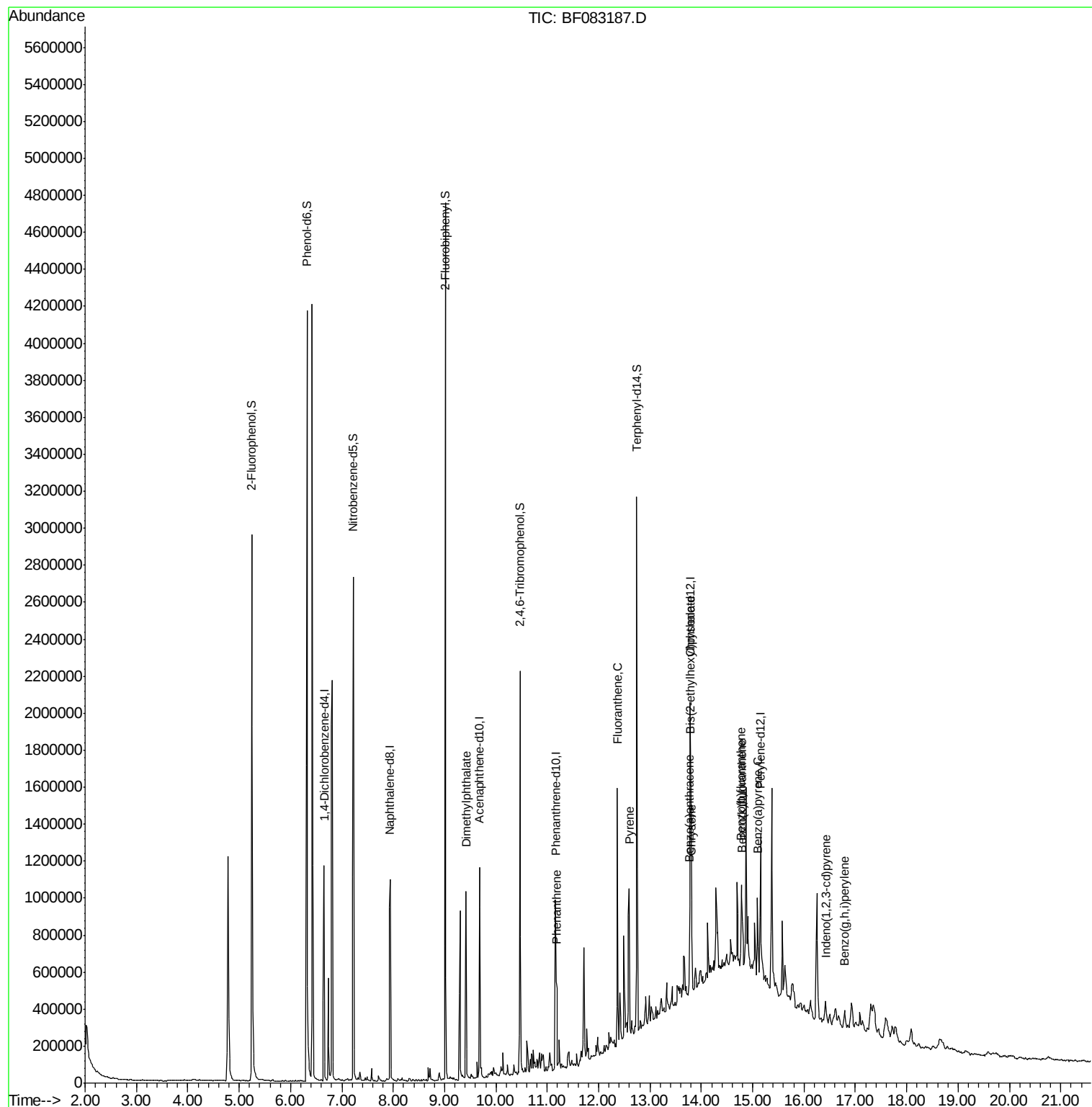
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.65  | 152  | 193842   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8             | 7.94  | 136  | 693949   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.68  | 164  | 307726   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.16 | 188  | 508492   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12               | 13.78 | 240  | 436110   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12               | 15.15 | 264  | 349315   | 20.00 | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.24  | 112  | 1086164  | 84.71 | ng    | -0.03    |
| 7) Phenol-d6                   | 6.32  | 99   | 1650751  | 99.51 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.22  | 82   | 1001553  | 65.95 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.47 | 330  | 246231   | 78.21 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.02  | 172  | 1352273  | 61.28 | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.74 | 244  | 933584   | 50.41 | ng    | -0.02    |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate          | 9.42  | 163  | 378980   | 16.00 | ng    | 100      |
| 70) Phenanthrene               | 11.19 | 178  | 264922   | 9.04  | ng    | 96       |
| 74) Fluoranthene               | 12.37 | 202  | 534728   | 17.83 | ng    | 100      |
| 77) Pyrene                     | 12.59 | 202  | 416157   | 13.97 | ng    | 96       |
| 80) Benzo(a)anthracene         | 13.77 | 228  | 223178   | 8.27  | ng    | 100      |
| 82) Chrysene                   | 13.81 | 228  | 199021   | 7.96  | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 13.79 | 149  | 146620   | 7.96  | ng    | # 96     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.42 | 276  | 86194    | 3.79  | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 14.78 | 252  | 197397m  | 8.27  | ng    |          |
| 88) Benzo(k)fluoranthene       | 14.79 | 252  | 99758m   | 5.61  | ng    |          |
| 89) Benzo(a)pyrene             | 15.10 | 252  | 136471   | 6.93  | ng    | # 93     |
| 91) Benzo(a,h,i)perylene       | 16.79 | 276  | 79383    | 4.54  | ng    | # 94     |

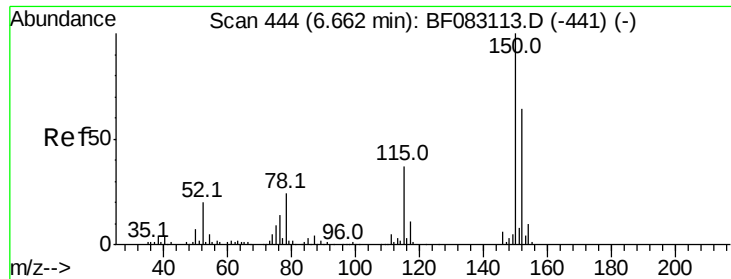
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 73 Sample Multiplier: 1

Instrument :  
BNA\_F  
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Quant Time: Nov 23 06:40:29 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 09:22:46 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.65 min Scan# 408

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampled :

H5

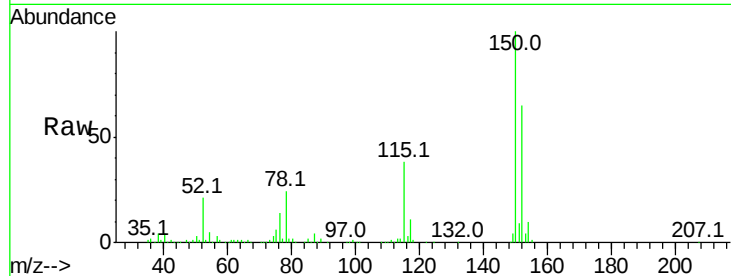
Tot Ion:152 Resp: 193842

Ion Ratio Lower Upper

152 100

150 153.0 125.8 188.8

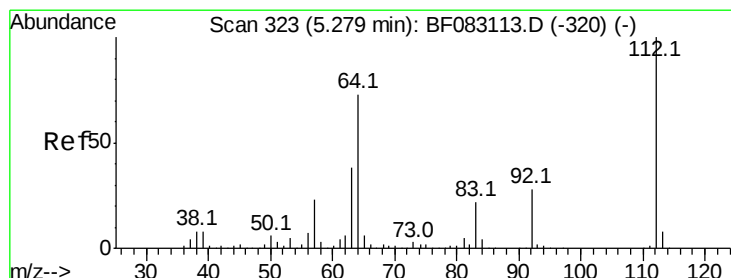
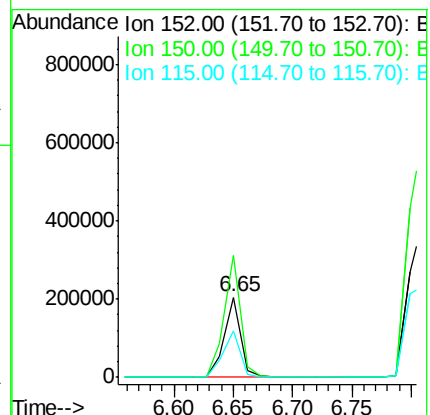
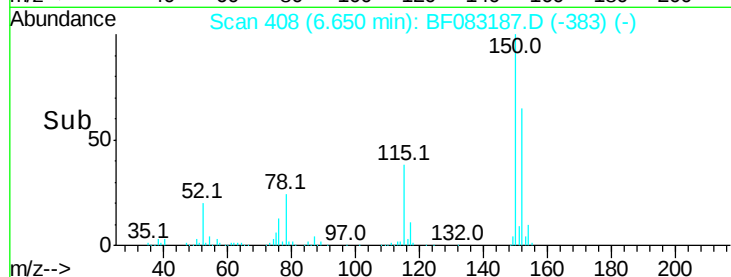
115 57.9 46.9 70.3



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: 84.71 ng

RT: 5.24 min Scan# 285

Delta R.T. -0.03 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

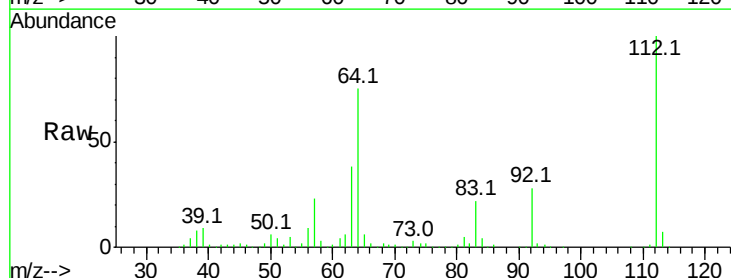
Tgt Ion:112 Resp: 1086164

Ion Ratio Lower Upper

112 100

64 75.1 58.4 87.6

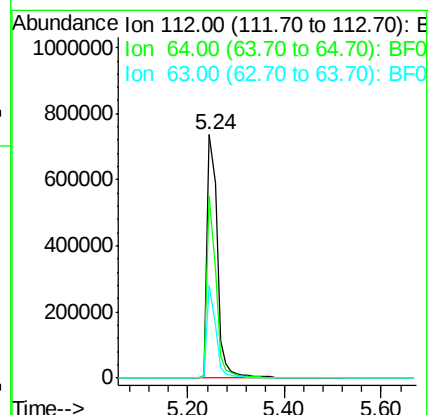
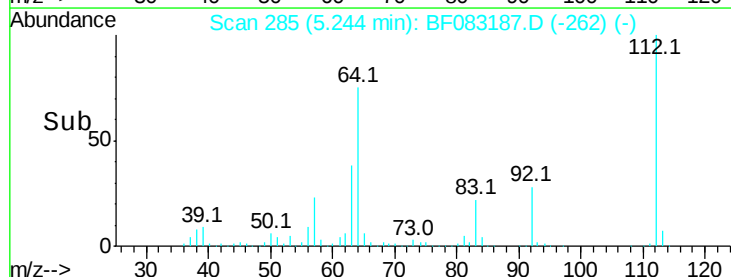
63 38.1 30.0 45.0

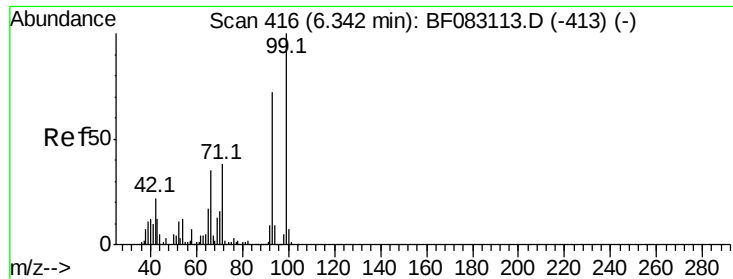


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 99.51 ng

RT: 6.32 min Scan# 379

Delta R.T. -0.02 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

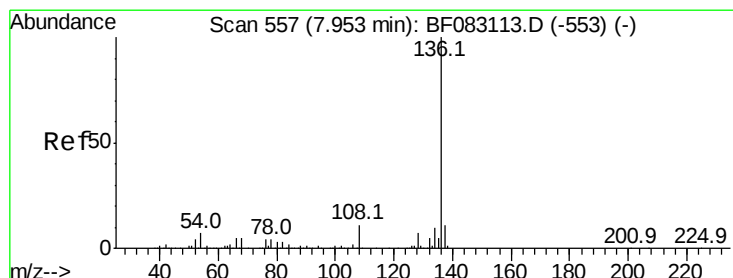
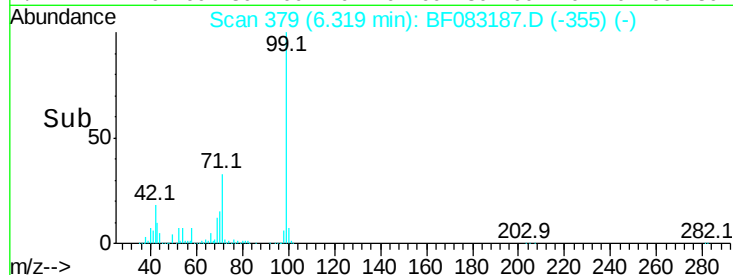
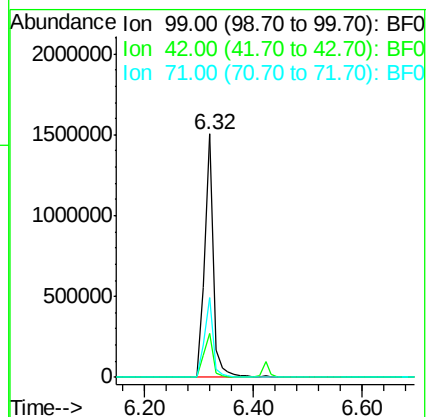
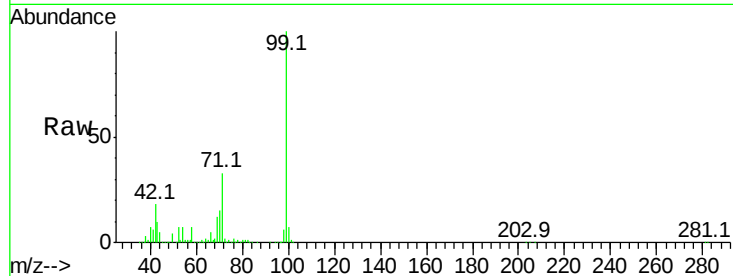
Tot Ion: 99 Resp: 1650751

Ion Ratio Lower Upper

99 100

42 18.3 17.7 26.5

71 32.7 30.2 45.4



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.94 min Scan# 521

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Tgt Ion: 136 Resp: 693949

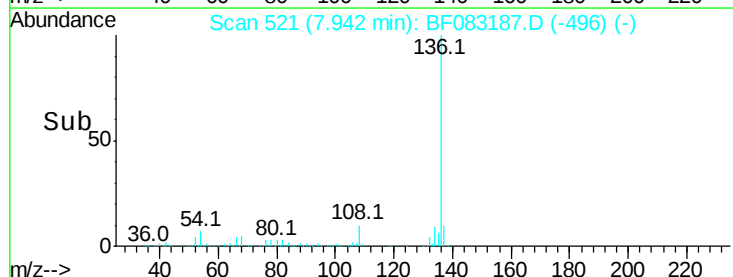
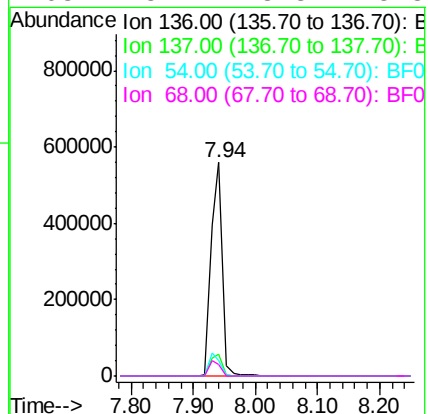
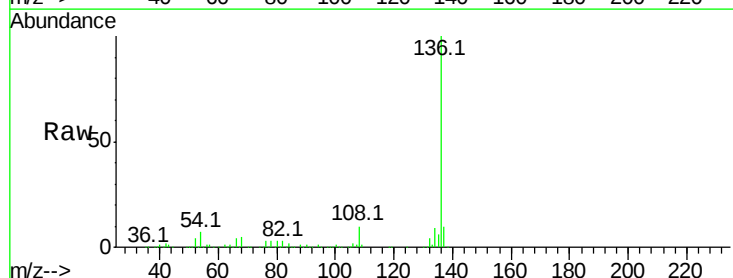
Ion Ratio Lower Upper

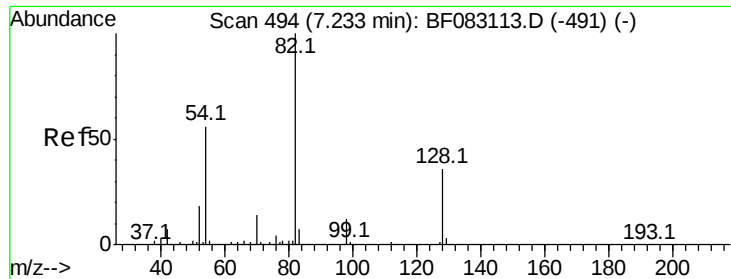
136 100

137 10.3 8.7 13.1

54 7.0 5.8 8.6

68 5.2 3.8 5.8

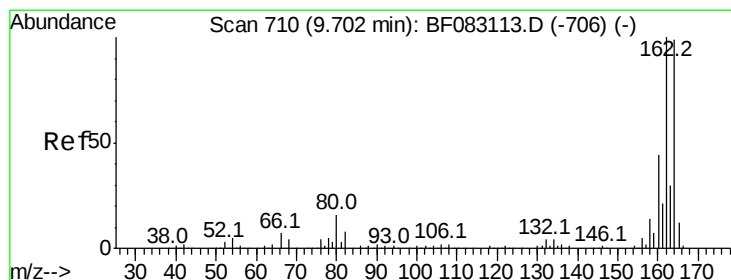
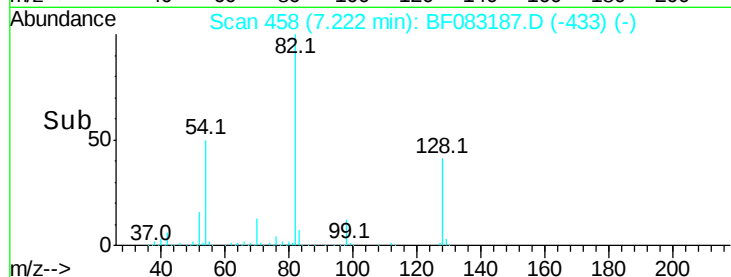
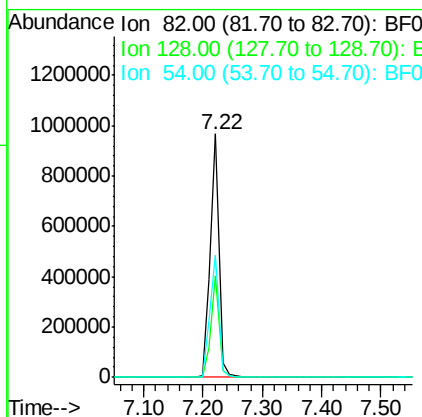
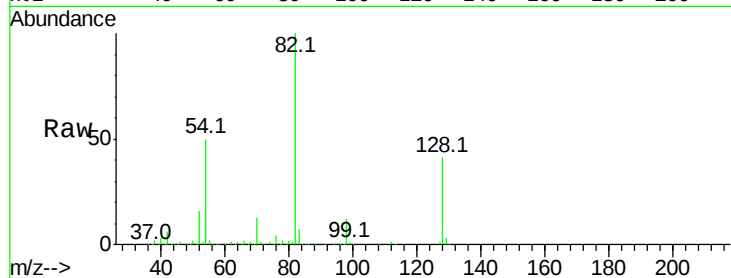




#23  
 Nitrobenzene-d5  
 Concen: 65.95 ng  
 RT: 7.22 min Scan# 458  
 Delta R.T. -0.01 min  
 Lab File: BF083187.D  
 Acq: 23 Nov 2015 5:01

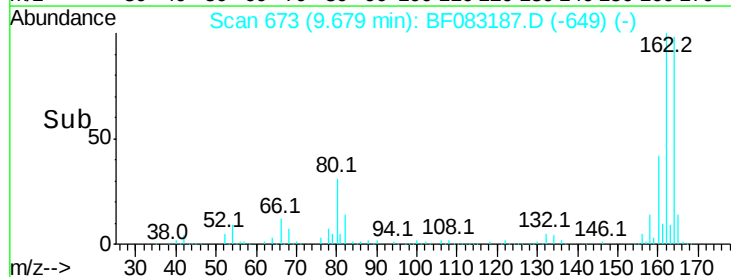
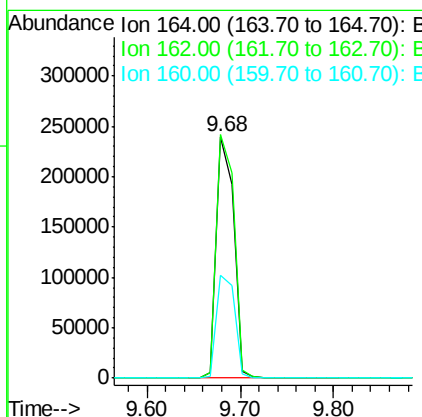
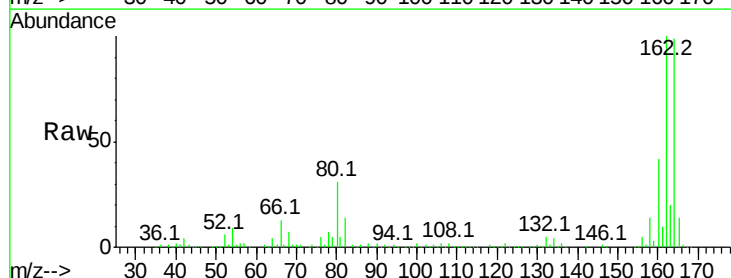
Instrument :  
 BNA\_F  
 ClientSampleId :  
 H5

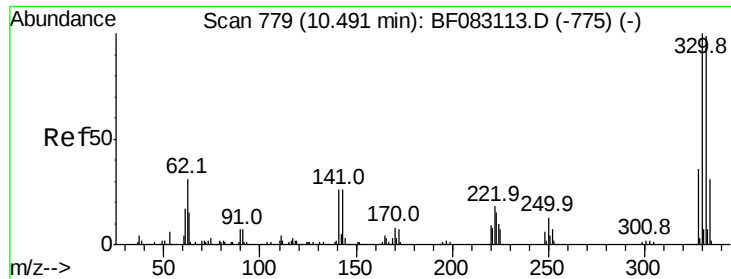
Tot Ion: 82 Resp: 1001553  
 Ion Ratio Lower Upper  
 82 100  
 128 41.5 28.5 42.7  
 54 50.3 44.6 67.0



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.68 min Scan# 673  
 Delta R.T. -0.02 min  
 Lab File: BF083187.D  
 Acq: 23 Nov 2015 5:01

Tgt Ion: 164 Resp: 307726  
 Ion Ratio Lower Upper  
 164 100  
 162 100.7 81.2 121.8  
 160 42.7 35.6 53.4

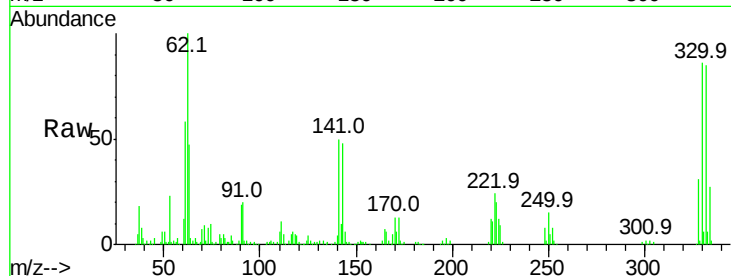




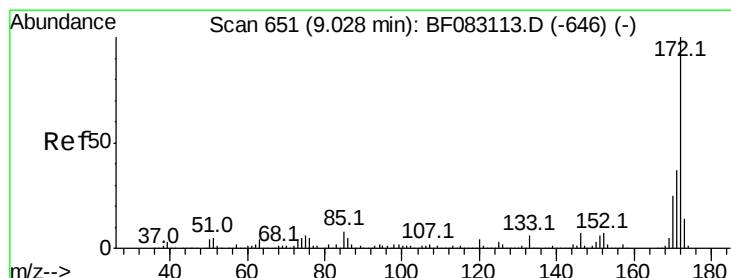
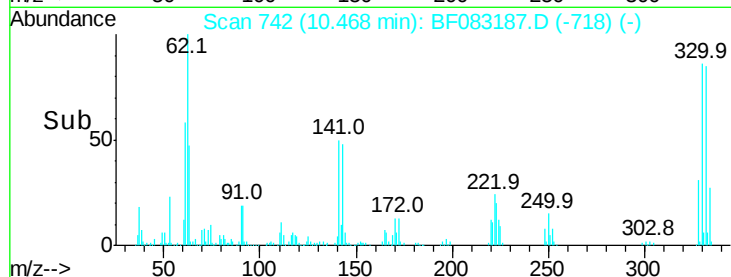
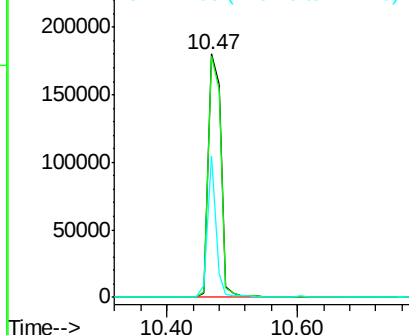
#41  
 2,4,6-Tribromophenol  
 Concen: 78.21 ng  
 RT: 10.47 min Scan# 742  
 Delta R.T. -0.02 min  
 Lab File: BF083187.D  
 Acq: 23 Nov 2015 5:01

Instrument :  
 BNA\_F  
 ClientSampled :  
 H5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.2  | 77.7  | 116.5 |
| 141     | 38.6  | 29.7  | 44.5  |

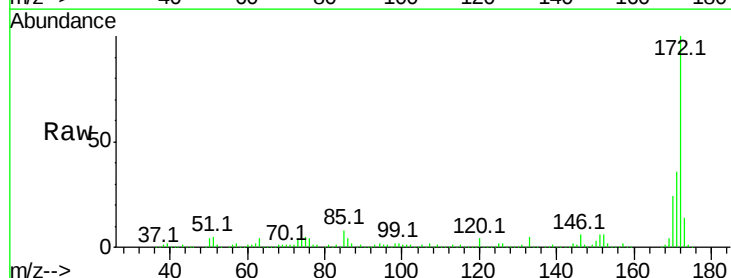


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

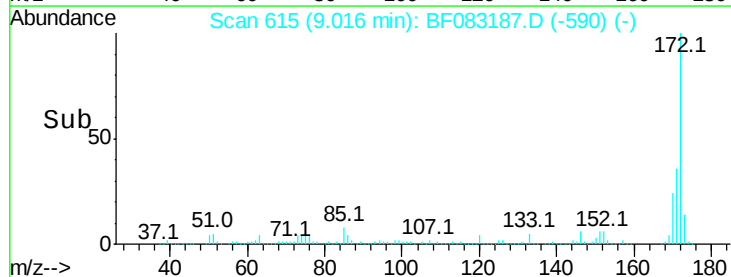
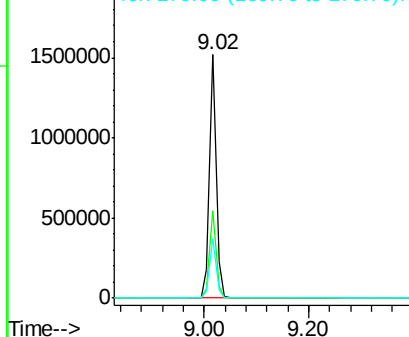


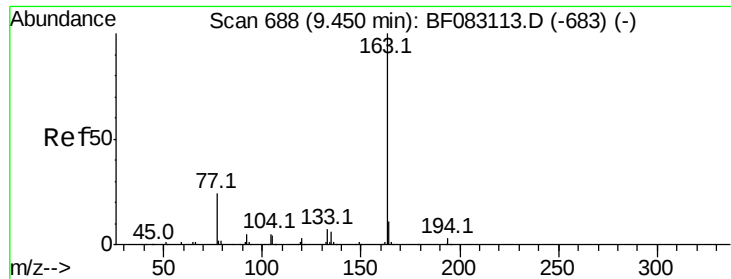
#44  
 2-Fluorobiphenyl  
 Concen: 61.28 ng  
 RT: 9.02 min Scan# 615  
 Delta R.T. -0.01 min  
 Lab File: BF083187.D  
 Acq: 23 Nov 2015 5:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.5  | 44.3  |
| 170     | 24.2  | 19.9  | 29.9  |



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: 16.00 ng

RT: 9.42 min Scan# 650

Delta R.T. -0.03 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

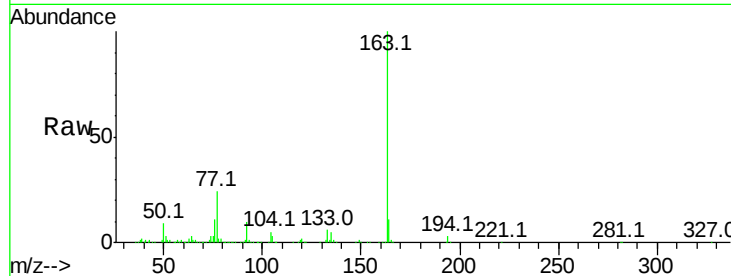
Tot Ion:163 Resp: 378980

Ion Ratio Lower Upper

163 100

194 3.4 2.6 4.0

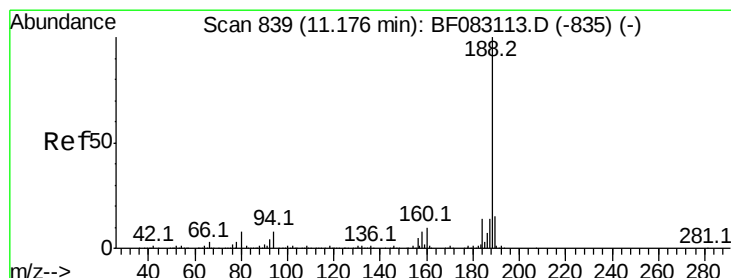
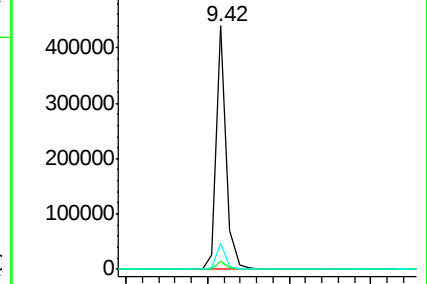
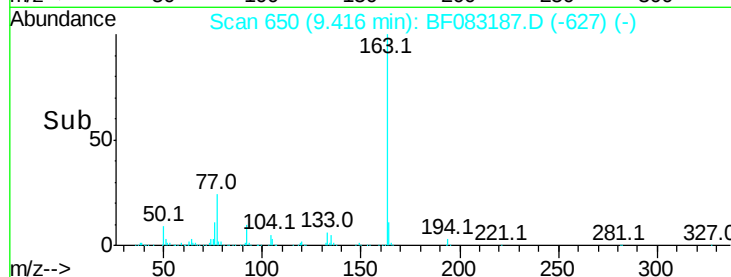
164 10.6 8.6 12.8



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: 11.16 min Scan# 803

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

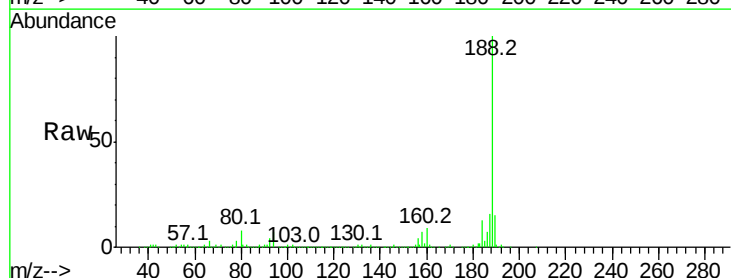
Tgt Ion:188 Resp: 508492

Ion Ratio Lower Upper

188 100

94 7.3 6.0 9.0

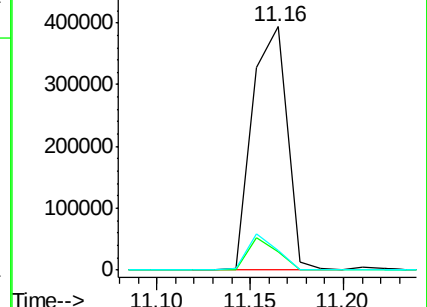
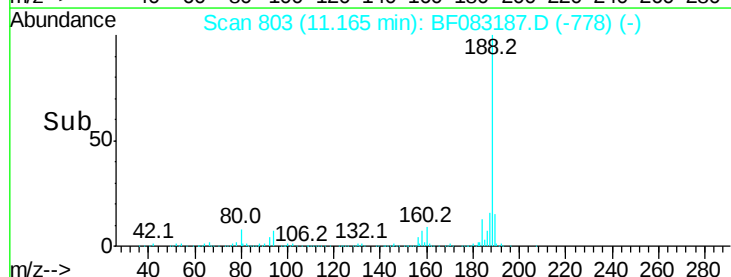
80 8.2 6.7 10.1

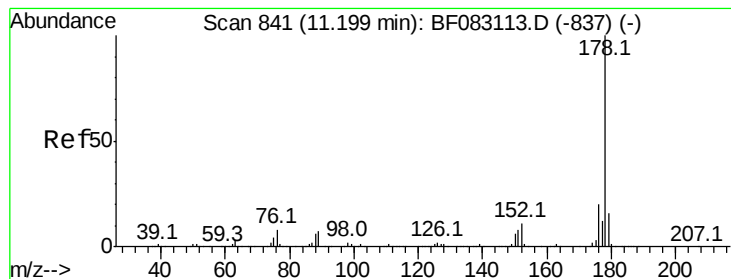


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 9.04 ng

RT: 11.19 min Scan# 805

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

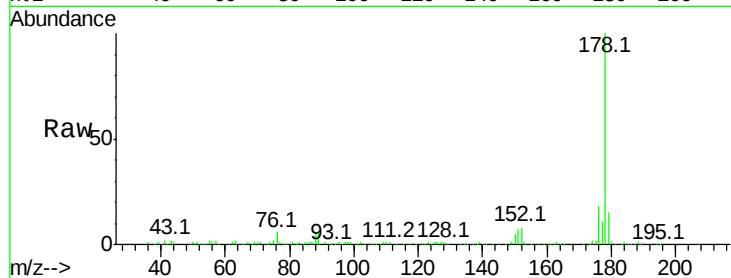
Tot Ion:178 Resp: 264922

Ion Ratio Lower Upper

178 100

176 18.3 16.2 24.2

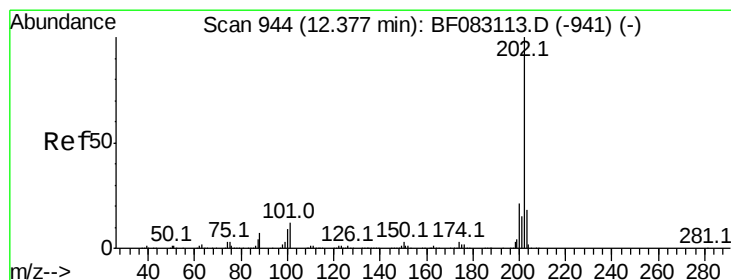
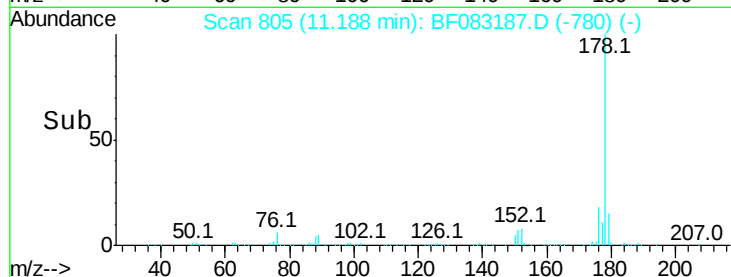
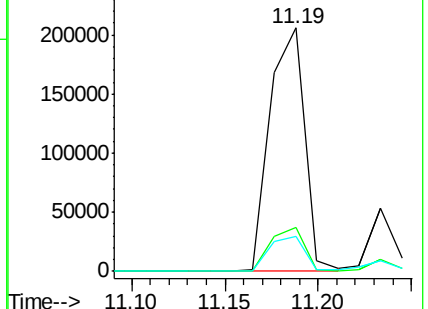
179 14.5 12.8 19.2



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: 17.83 ng

RT: 12.37 min Scan# 908

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

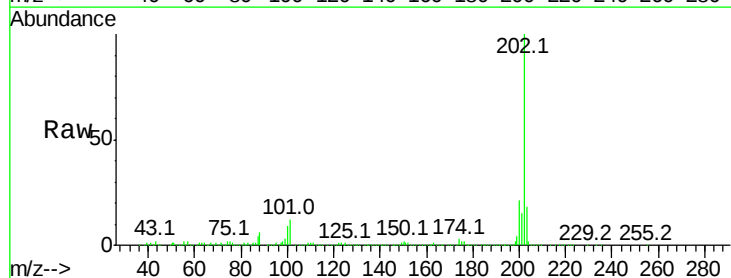
Tgt Ion:202 Resp: 534728

Ion Ratio Lower Upper

202 100

101 12.1 0.0 32.3

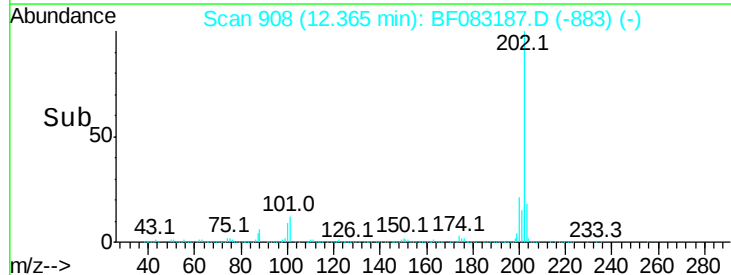
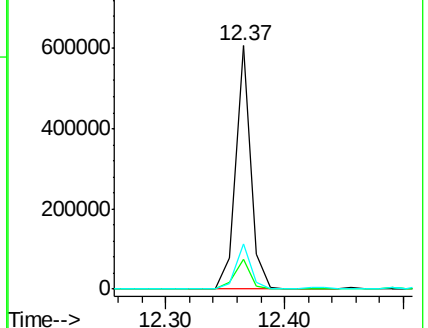
203 18.4 0.0 38.4

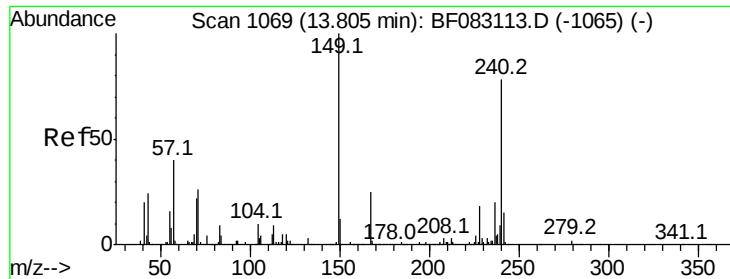


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.78 min Scan# 1032

Delta R.T. -0.02 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

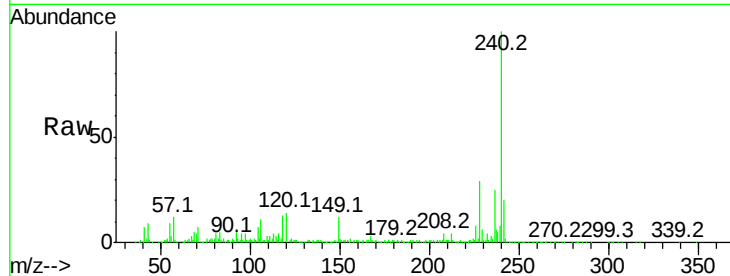
Tot Ion:240 Resp: 436110

Ion Ratio Lower Upper

240 100

120 14.1 5.4 8.2#

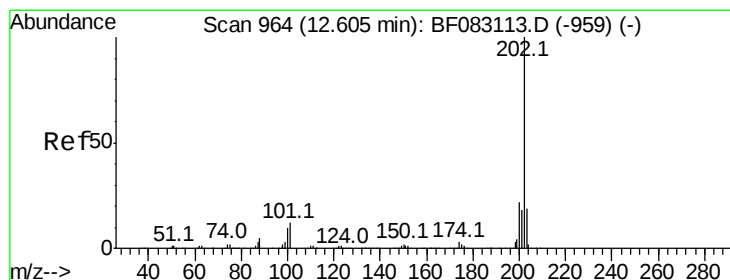
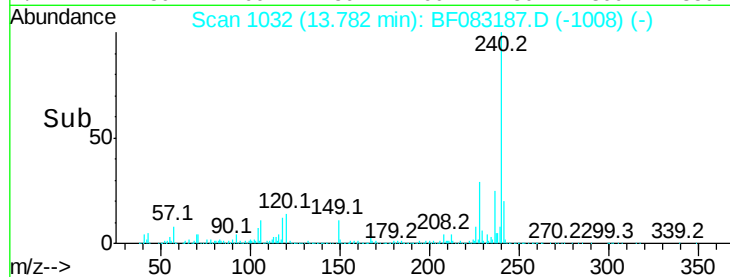
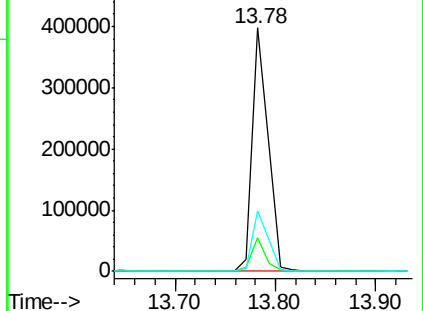
236 25.0 20.6 31.0



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: 13.97 ng

RT: 12.59 min Scan# 928

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

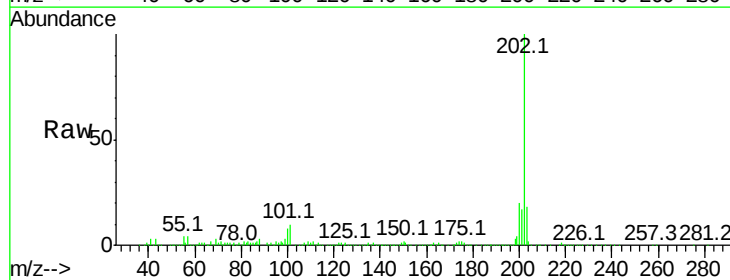
Tgt Ion:202 Resp: 416157

Ion Ratio Lower Upper

202 100

200 19.9 17.8 26.6

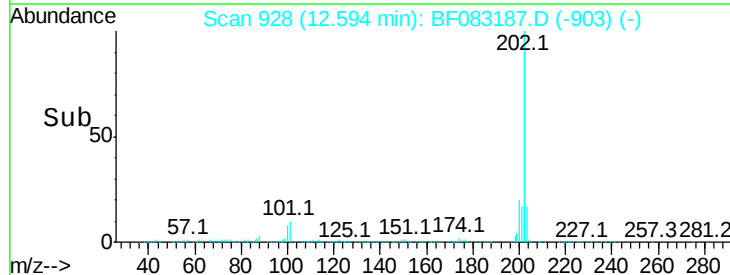
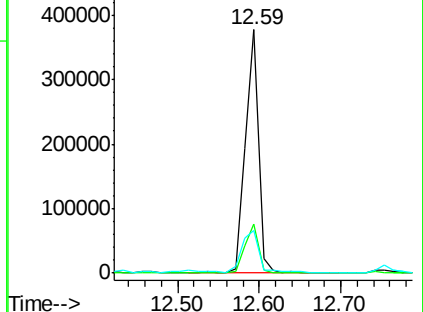
203 17.7 15.0 22.4

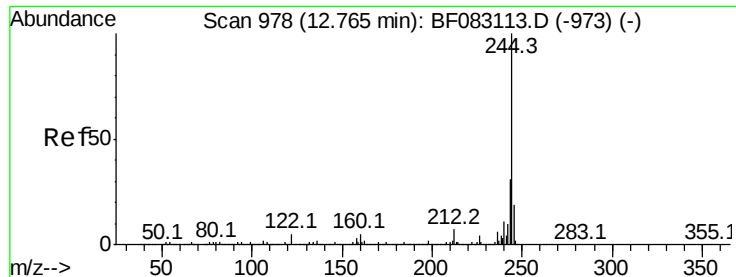


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 50.41 ng

RT: 12.74 min Scan# 941

Delta R.T. -0.02 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

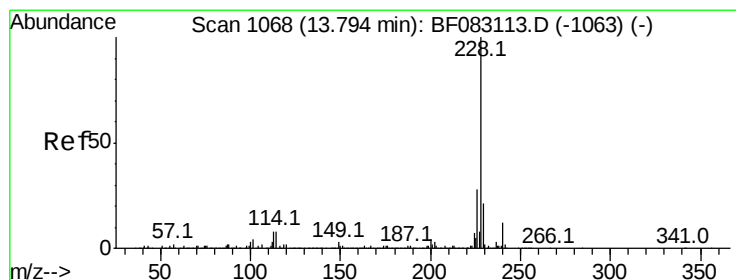
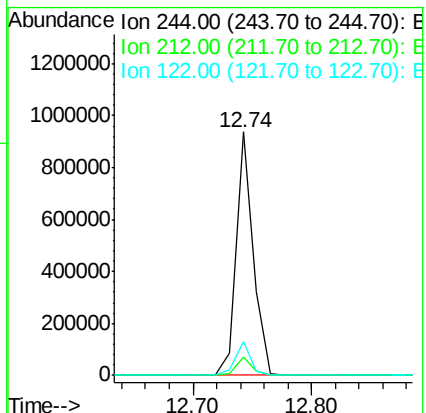
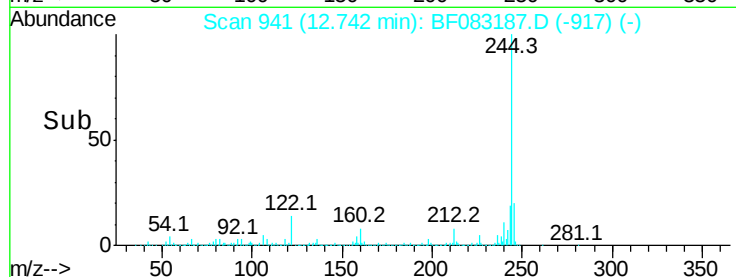
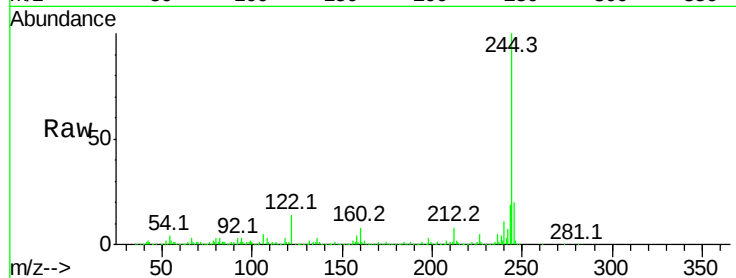
Tot Ion:244 Resp: 933584

Ion Ratio Lower Upper

244 100

212 7.7 5.4 8.2

122 13.6 4.3 6.5#



#80

Benzo(a)anthracene

Concen: 8.27 ng

RT: 13.77 min Scan# 1031

Delta R.T. -0.02 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

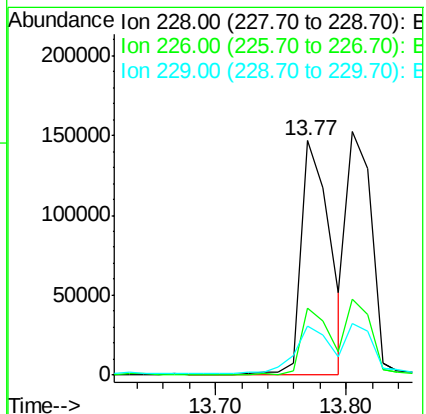
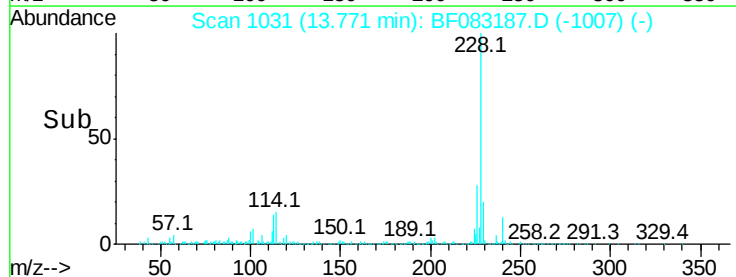
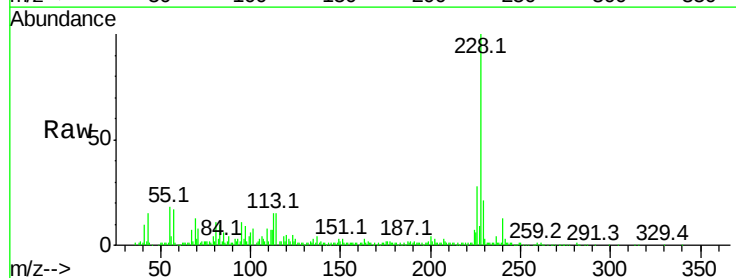
Tgt Ion:228 Resp: 223178

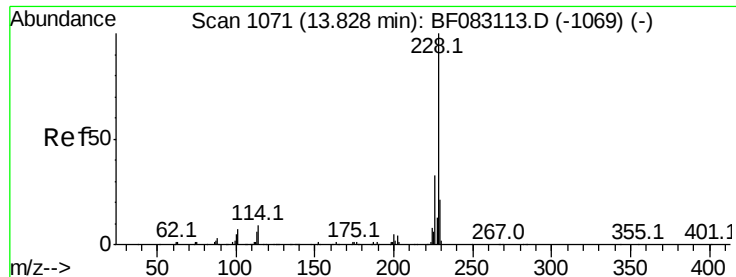
Ion Ratio Lower Upper

228 100

226 28.3 22.6 33.8

229 20.9 16.6 24.8





#82

Chrysene

Concen: 7.96 ng

RT: 13.81 min Scan# 1034

Delta R.T. -0.02 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

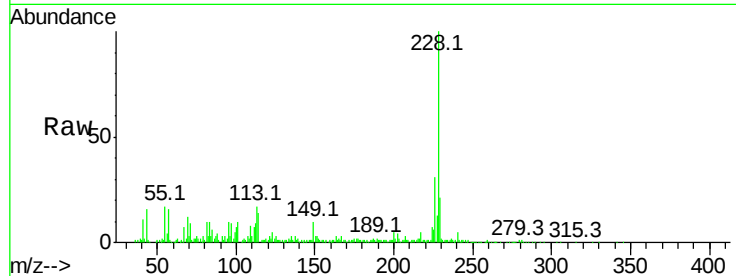
Tot Ion:228 Resp: 199021

Ion Ratio Lower Upper

228 100

226 31.4 25.5 38.3

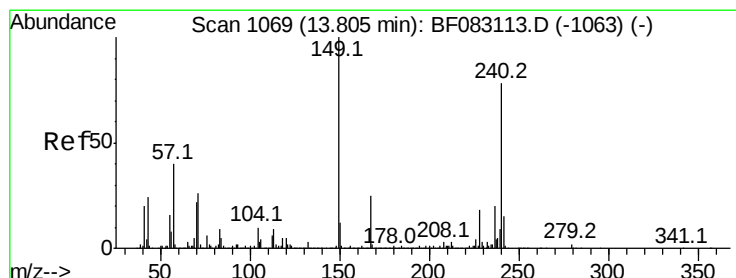
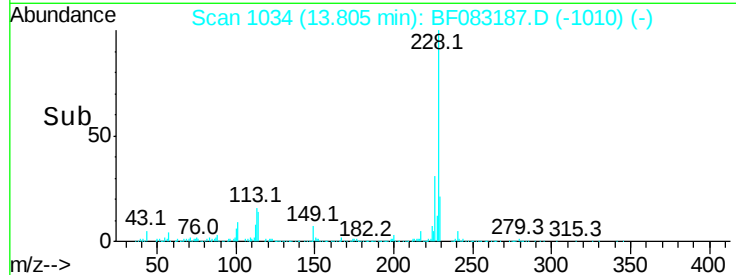
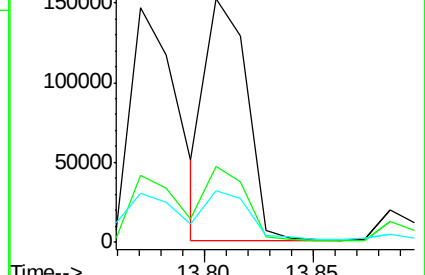
229 21.3 16.6 25.0



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 7.96 ng

RT: 13.79 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

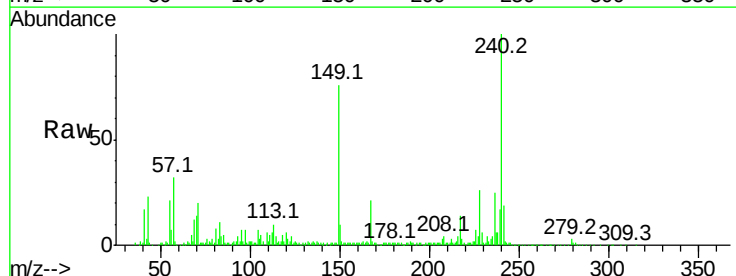
Tgt Ion:149 Resp: 146620

Ion Ratio Lower Upper

149 100

167 27.0 20.1 30.1

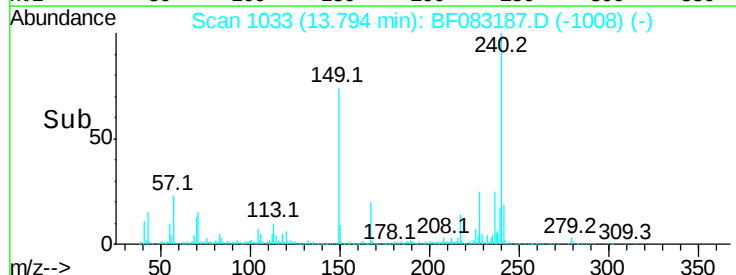
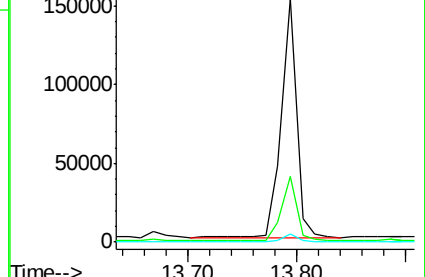
279 3.6 1.7 2.5#

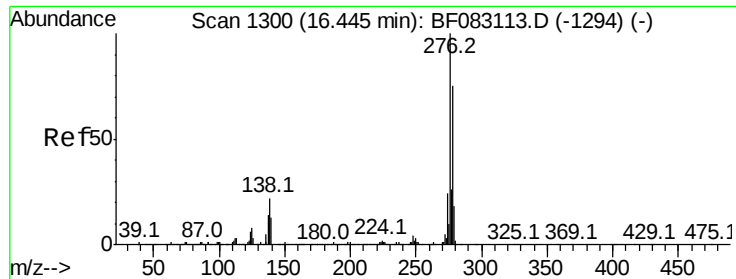


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

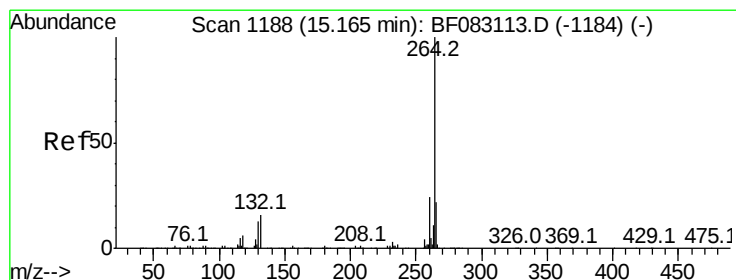
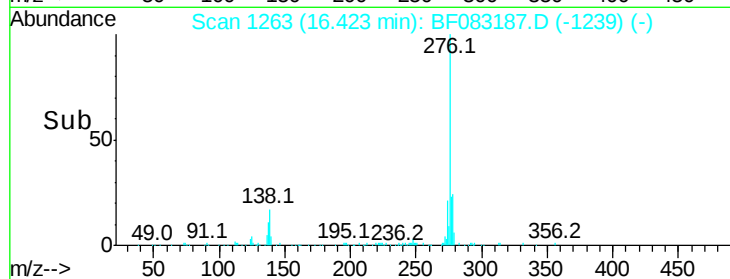
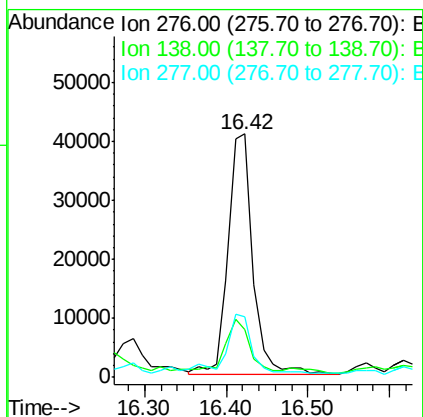
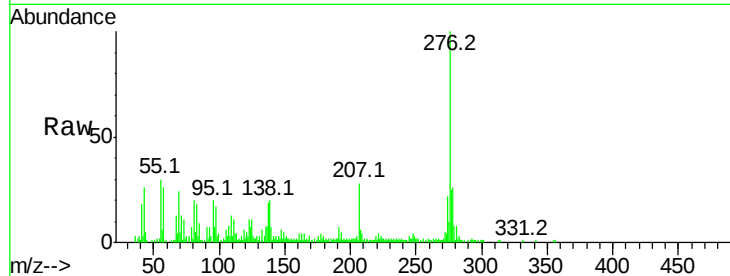




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.79 ng  
 RT: 16.42 min Scan# 1263  
 Delta R.T. -0.02 min  
 Lab File: BF083187.D  
 Acq: 23 Nov 2015 5:01

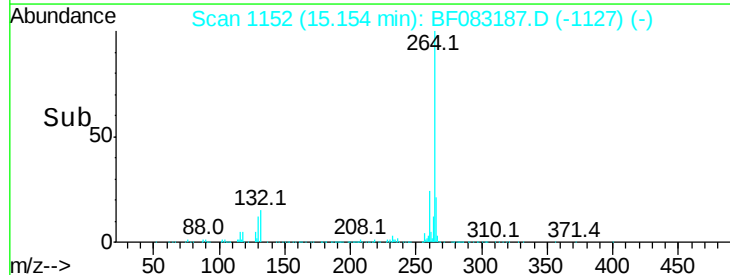
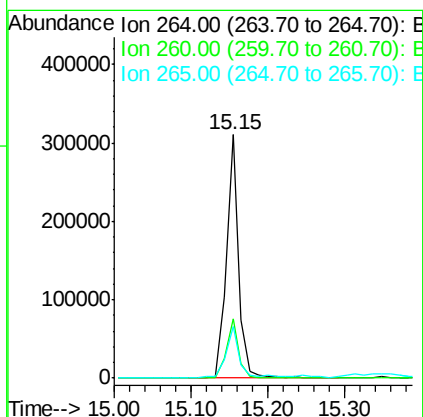
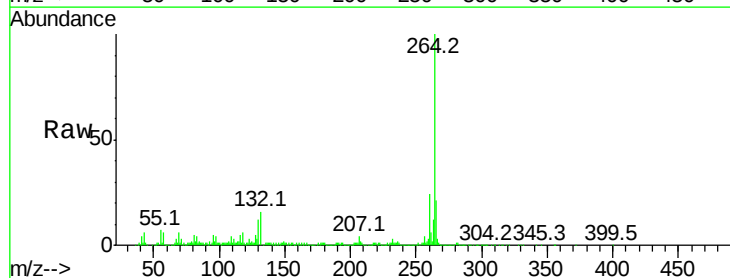
Instrument :  
 BNA\_F  
 ClientSampleId :  
 H5

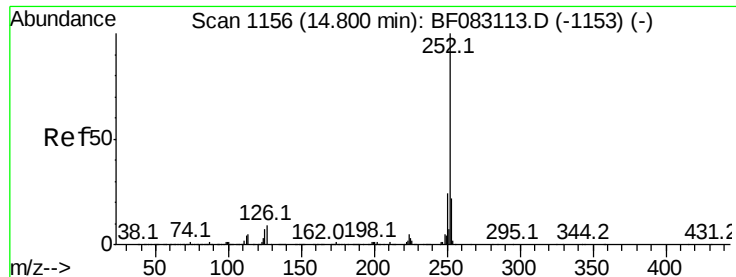
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.0  | 18.0  | 27.0  |
| 277     | 26.0  | 20.2  | 30.4  |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.15 min Scan# 1152  
 Delta R.T. -0.01 min  
 Lab File: BF083187.D  
 Acq: 23 Nov 2015 5:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 19.1  | 28.7  |
| 265     | 21.2  | 18.2  | 27.4  |





#87

Benzo(b)fluoranthene

Concen: 8.27 ng m

RT: 14.78 min Scan# 1119

Delta R.T. -0.02 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

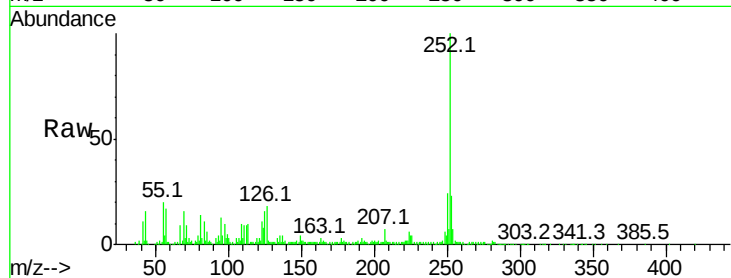
Tot Ion:252 Resp: 197397

Ion Ratio Lower Upper

252 100

253 22.8 17.7 26.5

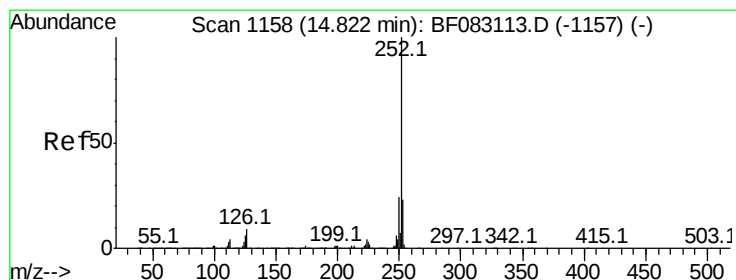
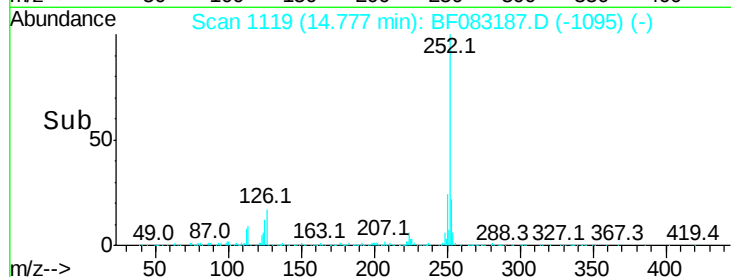
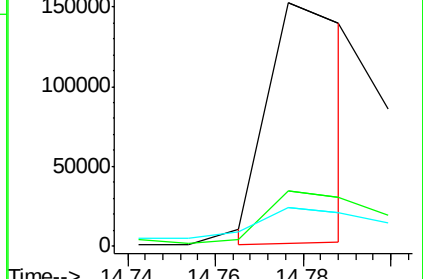
125 15.8 5.6 8.4#



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: 5.61 ng m

RT: 14.79 min Scan# 1120

Delta R.T. -0.03 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

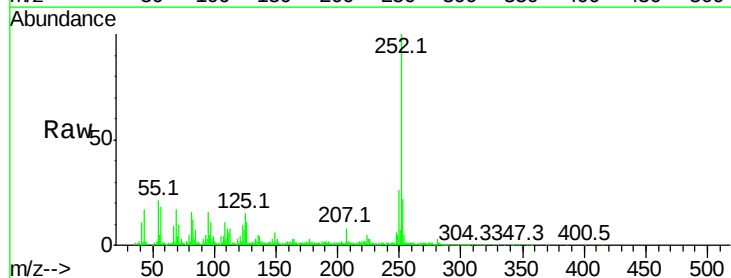
Tgt Ion:252 Resp: 99758

Ion Ratio Lower Upper

252 100

253 21.9 18.2 27.2

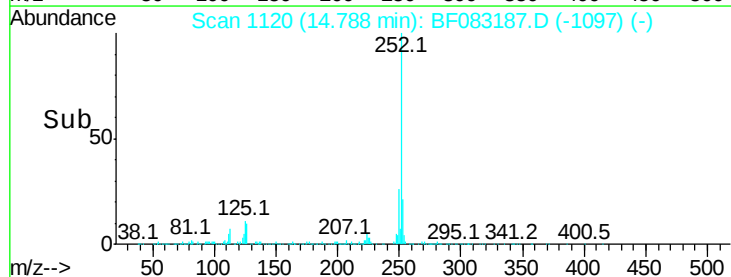
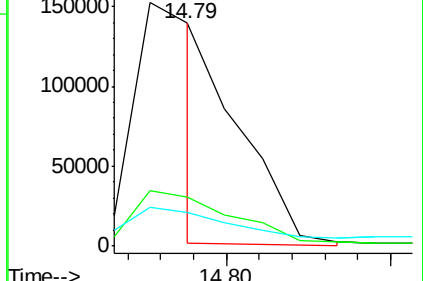
125 15.1 6.8 10.2#

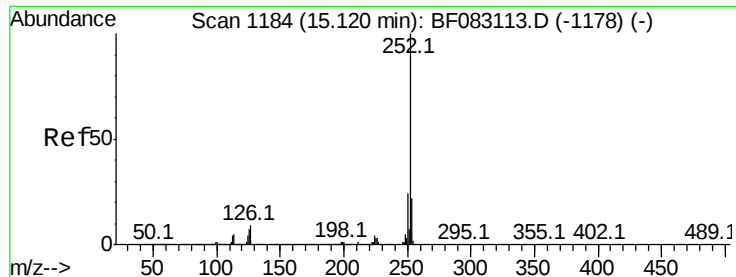


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 6.93 ng

RT: 15.10 min Scan# 1147

Delta R.T. -0.02 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

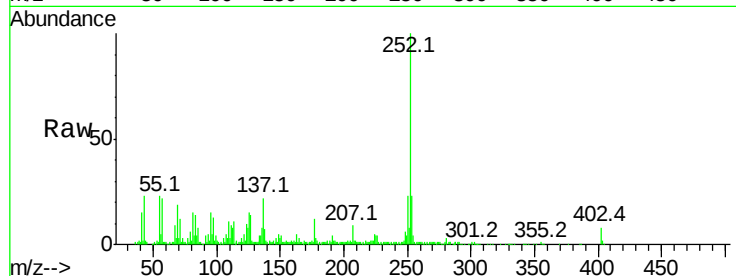
Tot Ion:252 Resp: 136471

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

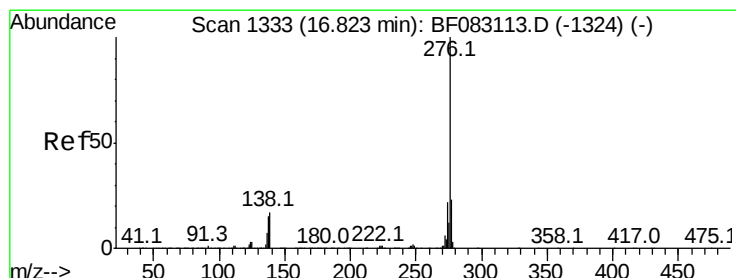
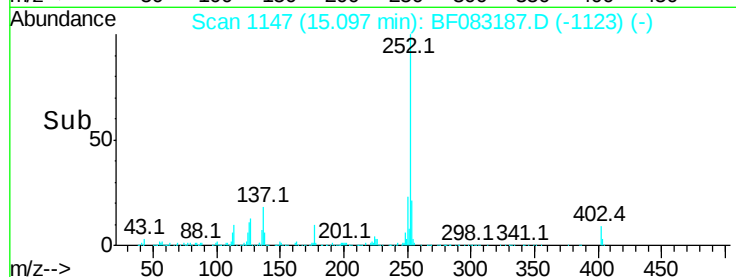
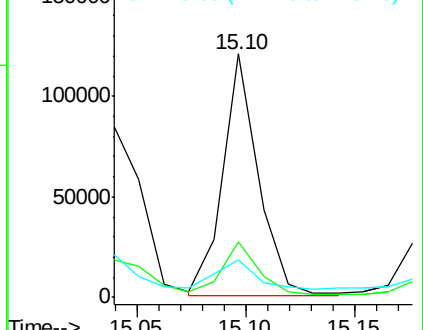
125 15.2 5.4 8.0#



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: 4.54 ng

RT: 16.79 min Scan# 1295

Delta R.T. -0.03 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

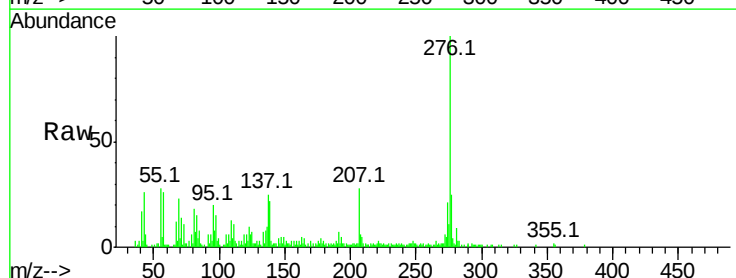
Tgt Ion:276 Resp: 79383

Ion Ratio Lower Upper

276 100

277 24.7 18.7 28.1

138 22.0 13.9 20.9#



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

