

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011317\  
 Data File : BF092240.D  
 Acq On : 13 Jan 2017 10:56  
 Operator : UM/SJ  
 Sample : I1131-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DUP

Quant Time: Jan 13 17:52:02 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 06 15:43:51 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.59  | 152  | 194575   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 7.87  | 136  | 762792   | 20.00 | ng    | -0.07    |
| 38) Acenaphthene-d10      | 9.62  | 164  | 478435   | 20.00 | ng    | -0.07    |
| 63) Phenanthrene-d10      | 11.10 | 188  | 745669   | 20.00 | ng    | -0.05    |
| 75) Chrysene-d12          | 13.73 | 240  | 465847   | 20.00 | ng    | -0.05    |
| 86) Perylene-d12          | 15.08 | 264  | 443270   | 20.00 | ng    | -0.07    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.18  | 112  | 1546276  | 132.69 | ng    | -0.05    |
| 7) Phenol-d6                | 6.26  | 99   | 1767525  | 124.23 | ng    | -0.05    |
| 23) Nitrobenzene-d5         | 7.16  | 82   | 1285002  | 93.67  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.42 | 330  | 548836   | 138.62 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl        | 8.95  | 172  | 1806007  | 75.97  | ng    | -0.05    |
| 78) Terphenyl-d14           | 12.69 | 244  | 1827600  | 95.15  | ng    | -0.05    |

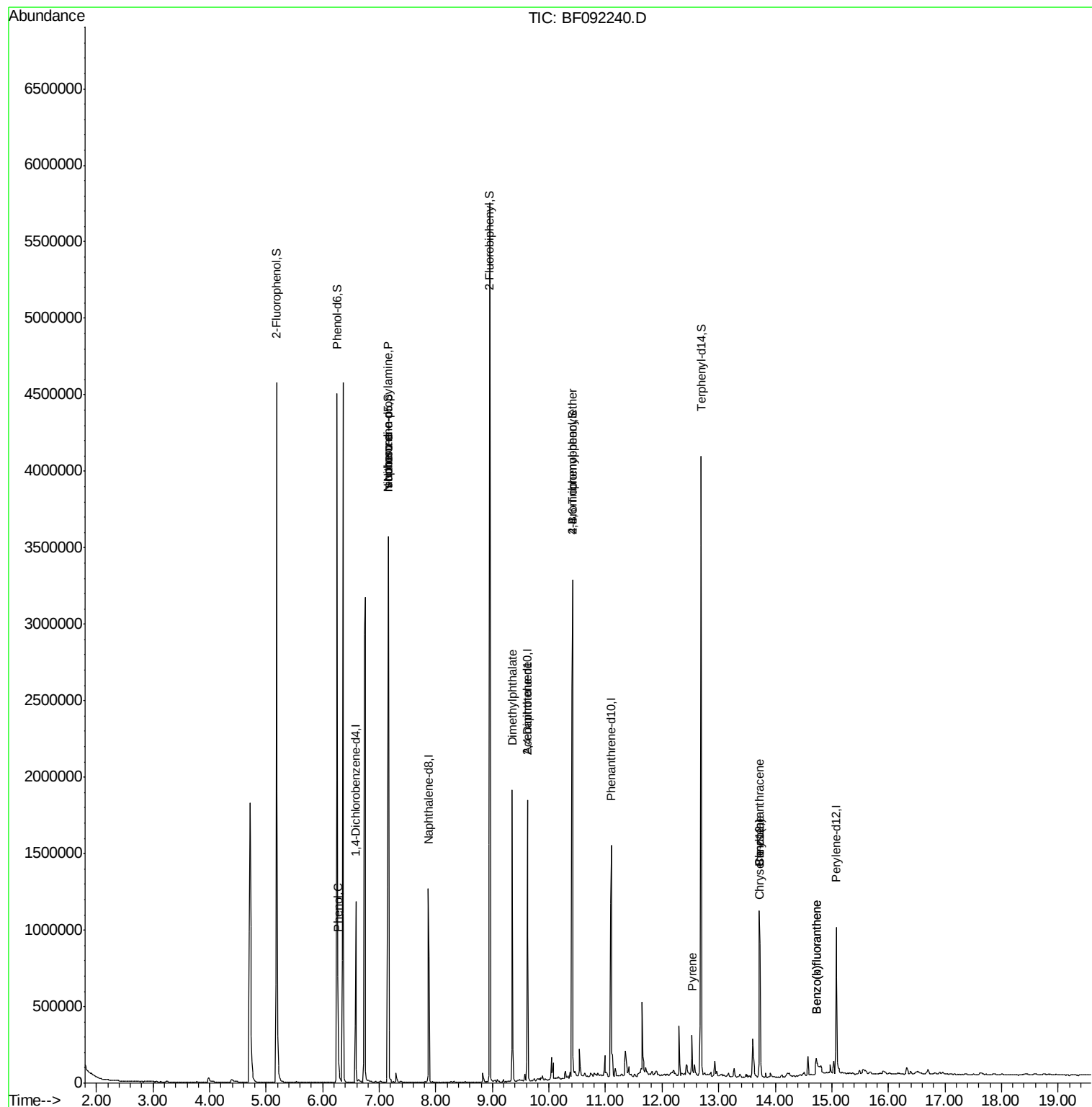
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 10) Phenol                     | 6.27  | 94   | 37781    | 2.33      | ng    | 83     |
| 19) n-Nitroso-di-n-propylamine | 7.16  | 70   | 173574   | 18.34     | ng    | # 76   |
| 25) Isophorone                 | 7.16  | 82   | 1279019  | 50.54     | ng    | # 65   |
| 37) 2-Methylnaphthalene        | 8.59  | 142  | 630      | Below Cal | #     | 89     |
| 49) Dimethylphthalate          | 9.35  | 163  | 714903   | 23.36     | ng    | 98     |
| 56) 2,4-Dinitrotoluene         | 9.62  | 165  | 61689    | 7.34      | ng    | # 20   |
| 66) 4-Bromophenyl-phenylether  | 10.42 | 248  | 36381    | 4.69      | ng    | # 1    |
| 71) Anthracene                 | 11.17 | 178  | 17948    | Below Cal |       | 95     |
| 73) Di-n-butylphthalate        | 11.67 | 149  | 15304    | Below Cal |       | 97     |
| 74) Fluoranthene               | 12.30 | 202  | 123816   | Below Cal |       | 98     |
| 76) Benzidine                  | 12.69 | 184  | 23120    | Below Cal | #     | 90     |
| 77) Pyrene                     | 12.53 | 202  | 103998   | 3.04      | ng    | 95     |
| 80) Benzo(a)anthracene         | 13.72 | 228  | 54037    | 2.05      | ng    | # 93   |
| 82) Chrysene                   | 13.72 | 228  | 54037    | 2.05      | ng    | 97     |
| 87) Benzo(b)fluoranthene       | 14.73 | 252  | 63354    | 2.30      | ng    | # 96   |
| 88) Benzo(k)fluoranthene       | 14.73 | 252  | 63354    | 2.69      | ng    | # 95   |

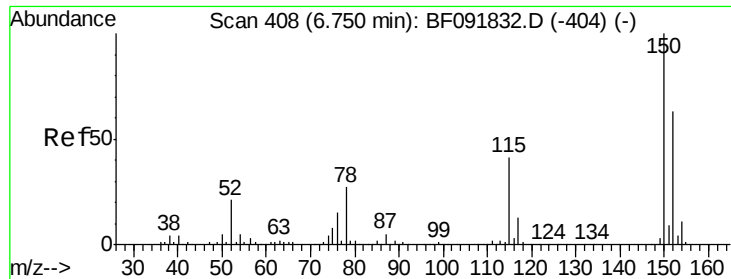
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_F  
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DUP

Quant Time: Jan 13 17:52:02 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jan 06 15:43:51 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.59 min Scan# 420

Delta R.T. -0.05 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

Instrument :

BNA\_F

ClientSampleId :

DUP

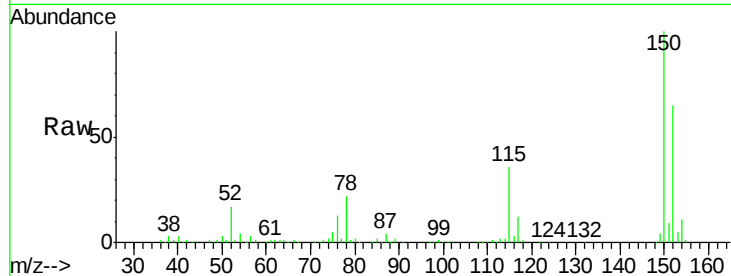
Tgt Ion:152 Resp: 194575

Ion Ratio Lower Upper

152 100

150 154.5 124.9 187.3

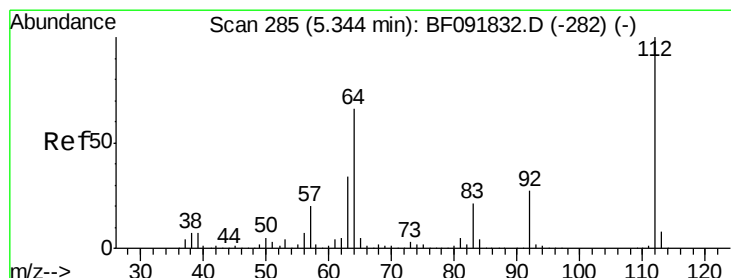
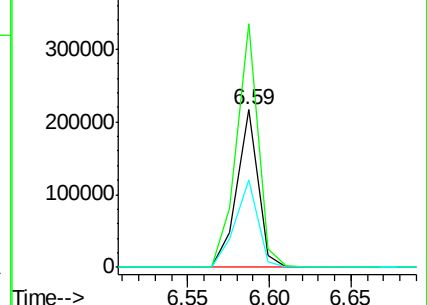
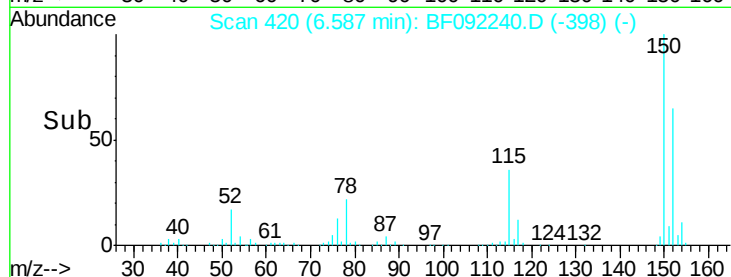
115 55.9 46.0 69.0



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: 132.69 ng

RT: 5.18 min Scan# 297

Delta R.T. -0.05 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

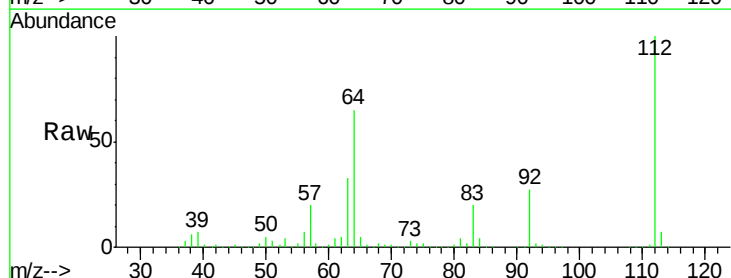
Tgt Ion:112 Resp: 1546276

Ion Ratio Lower Upper

112 100

64 65.0 46.1 69.1

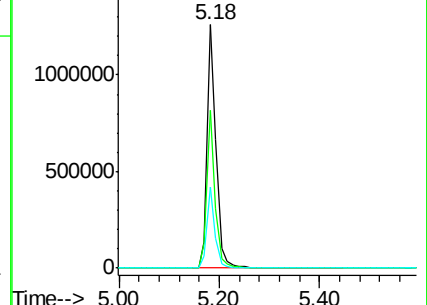
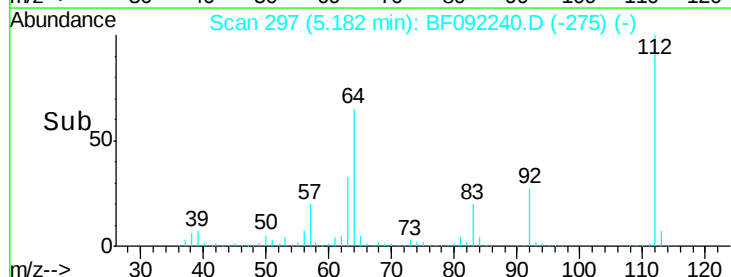
63 33.1 23.8 35.6



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: 124.23 ng

RT: 6.26 min Scan# 391

Delta R.T. -0.05 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

Instrument :

BNA\_F

ClientSampleId :

DUP

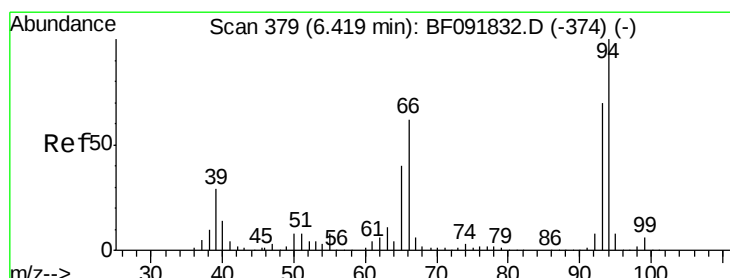
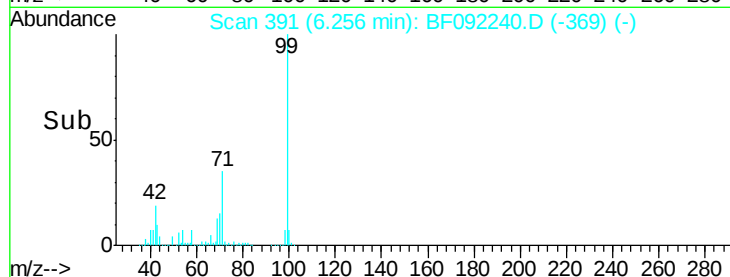
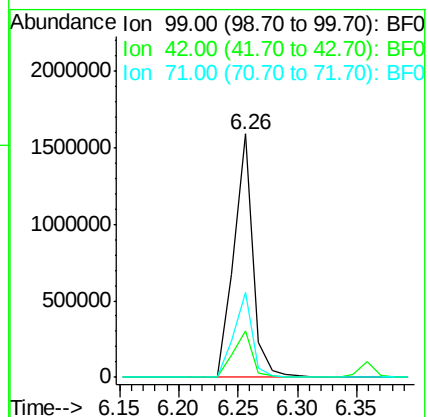
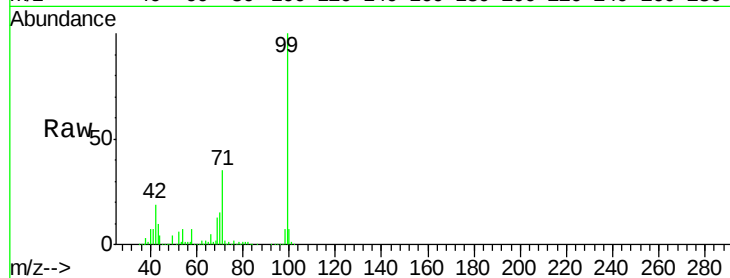
Tgt Ion: 99 Resp: 1767525

Ion Ratio Lower Upper

99 100

42 19.1 15.6 23.4

71 34.7 27.5 41.3



#10

Phenol

Concen: 2.33 ng

RT: 6.27 min Scan# 392

Delta R.T. -0.05 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

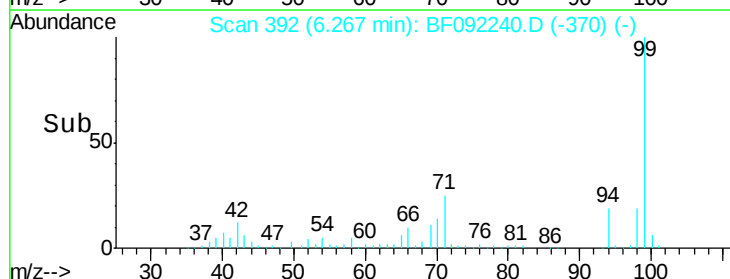
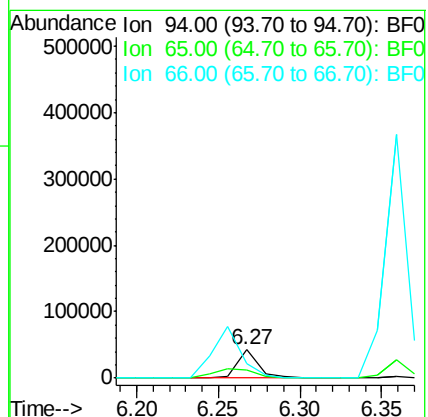
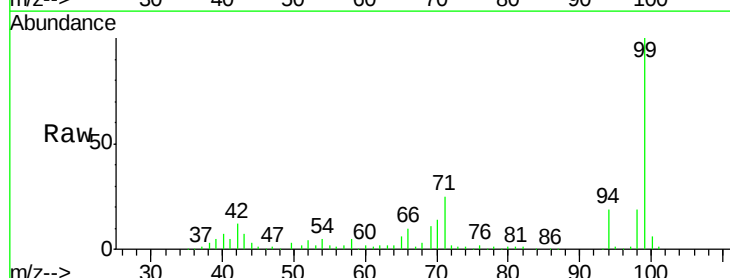
Tgt Ion: 94 Resp: 37781

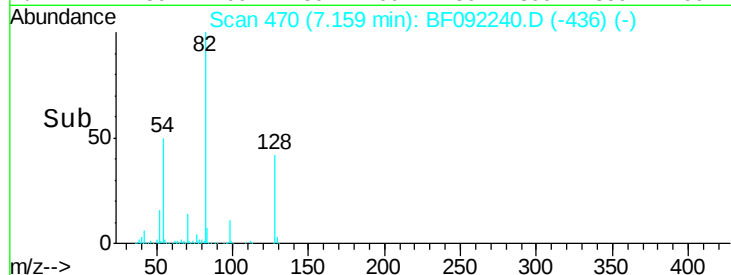
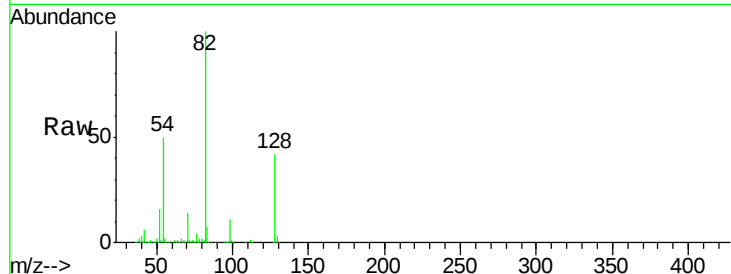
Ion Ratio Lower Upper

94 100

65 30.5 21.4 61.4

66 51.3 44.0 84.0

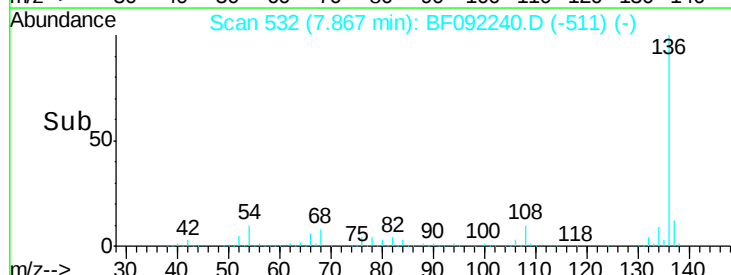
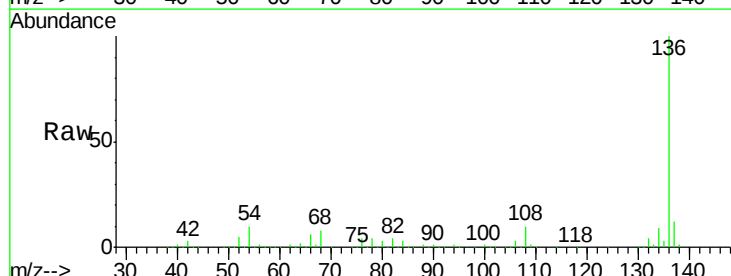
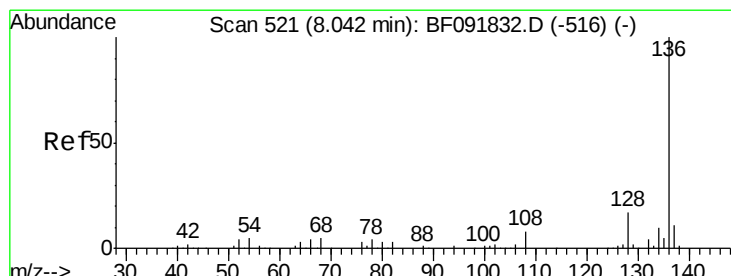
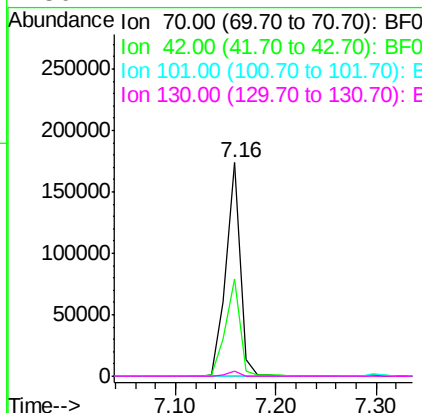




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.34 ng  
RT: 7.16 min Scan# 470  
Delta R.T. 0.08 min  
Lab File: BF092240.D  
Acq: 13 Jan 2017 10:56

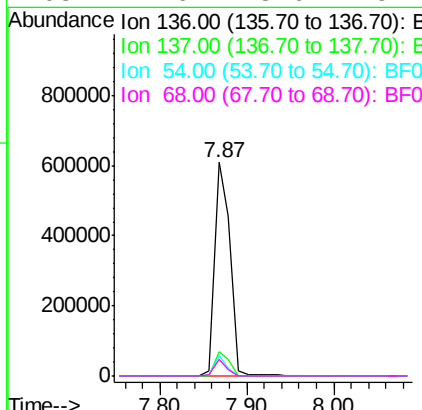
Instrument :  
BNA\_F  
ClientSampleId :  
DUP

Tgt Ion: 70 Resp: 173574  
Ion Ratio Lower Upper  
70 100  
42 45.8 49.4 74.0#  
101 0.0 7.4 11.2#  
130 2.4 14.2 21.4#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.87 min Scan# 532  
Delta R.T. -0.07 min  
Lab File: BF092240.D  
Acq: 13 Jan 2017 10:56

Tgt Ion: 136 Resp: 762792  
Ion Ratio Lower Upper  
136 100  
137 11.5 8.4 12.6  
54 9.6 4.5 6.7#  
68 7.6 3.6 5.4#

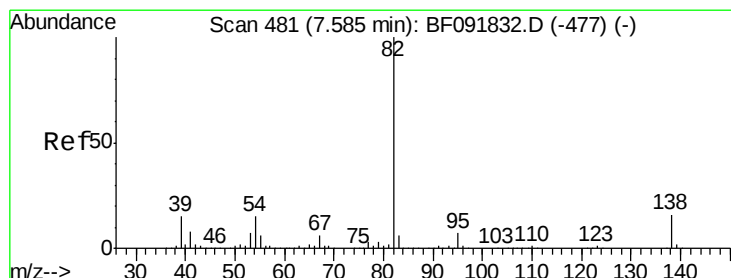
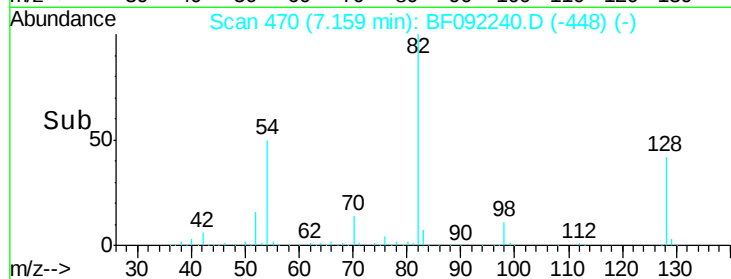
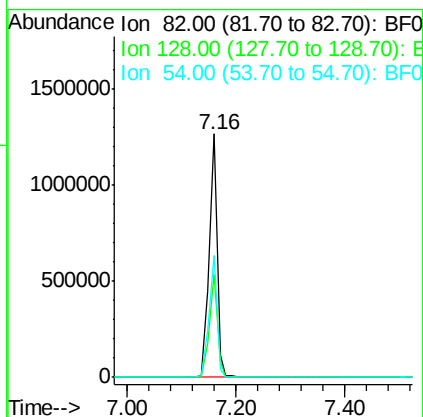
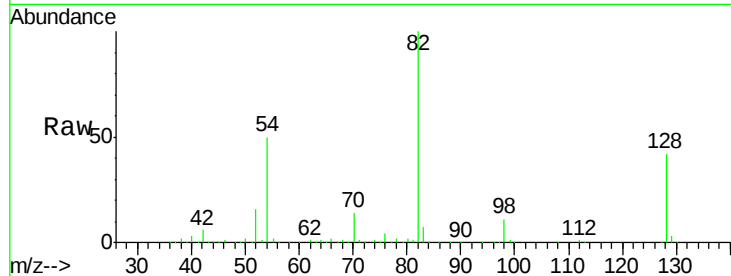




#23  
 Nitrobenzene-d5  
 Concen: 93.67 ng  
 RT: 7.16 min Scan# 470  
 Delta R.T. -0.05 min  
 Lab File: BF092240.D  
 Acq: 13 Jan 2017 10:56

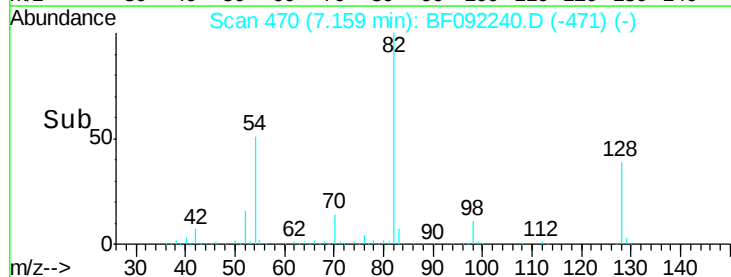
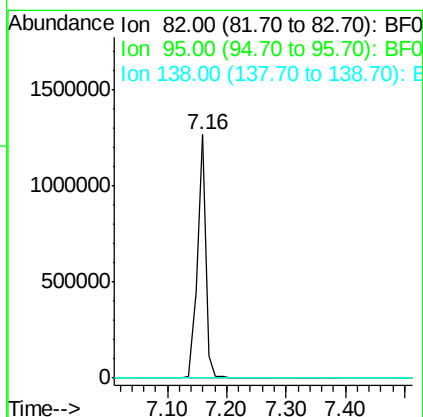
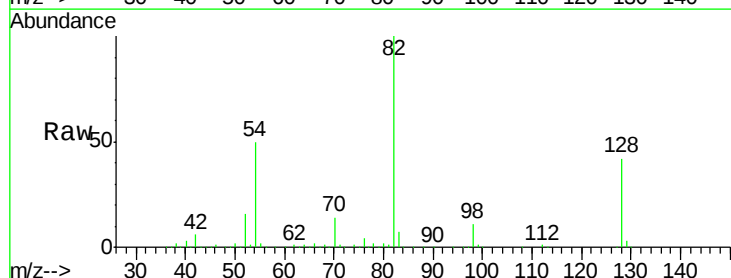
Instrument :  
 BNA\_F  
 ClientSampleId :  
 DUP

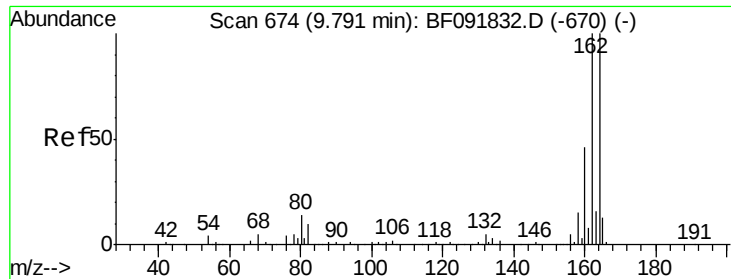
Tgt Ion: 82 Resp: 1285002  
 Ion Ratio Lower Upper  
 82 100  
 128 42.1 34.6 52.0  
 54 49.9 39.5 59.3



#25  
 Isophorone  
 Concen: 50.54 ng  
 RT: 7.16 min Scan# 470  
 Delta R.T. -0.32 min  
 Lab File: BF092240.D  
 Acq: 13 Jan 2017 10:56

Tgt Ion: 82 Resp: 1279019  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.6 8.4#  
 138 0.0 14.6 22.0#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.62 min Scan# 685

Delta R.T. -0.07 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

Instrument :

BNA\_F

ClientSampleId :

DUP

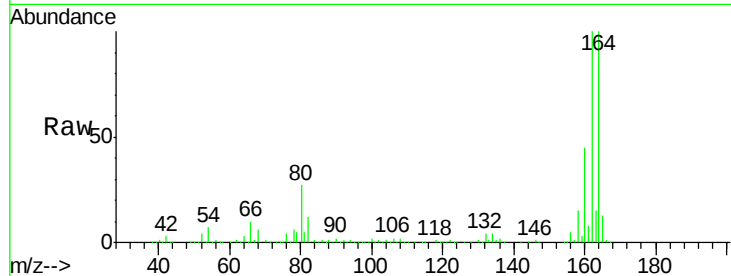
Tgt Ion:164 Resp: 478435

Ion Ratio Lower Upper

164 100

162 99.6 80.2 120.2

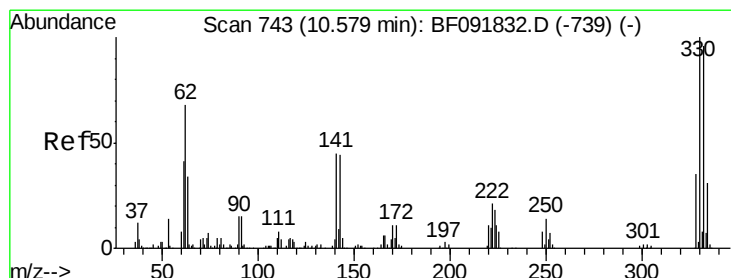
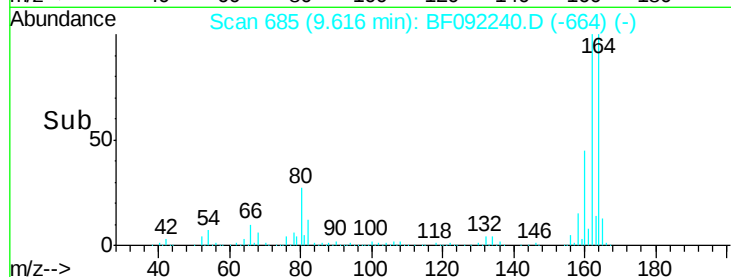
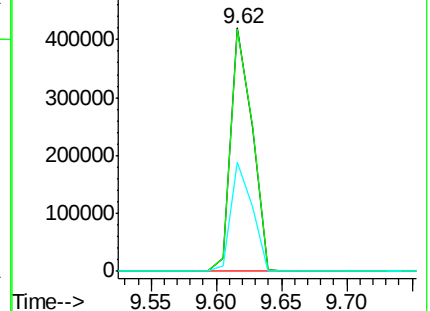
160 44.9 36.9 55.3



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: 138.62 ng

RT: 10.42 min Scan# 755

Delta R.T. -0.05 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

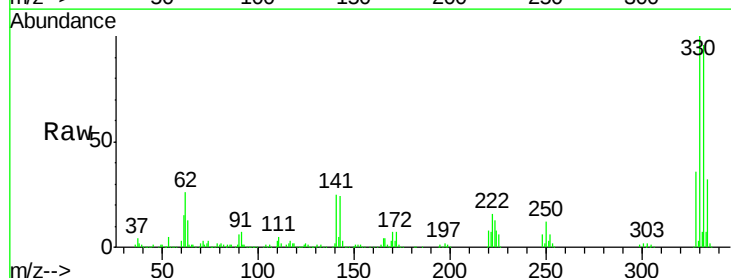
Tgt Ion:330 Resp: 548836

Ion Ratio Lower Upper

330 100

332 96.0 77.4 116.2

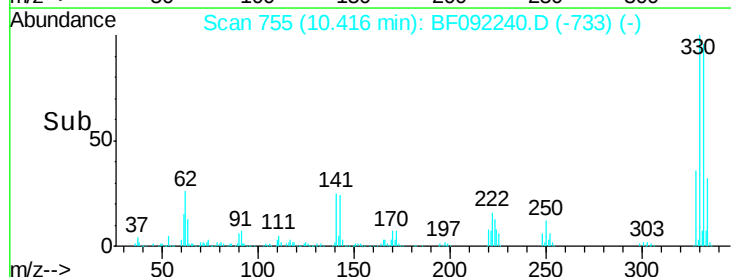
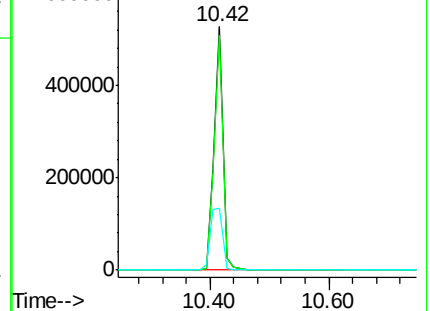
141 35.8 34.1 51.1

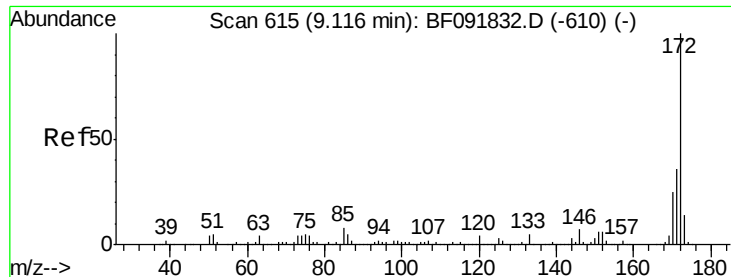


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

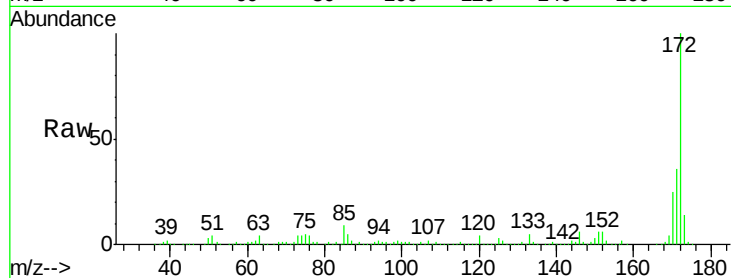




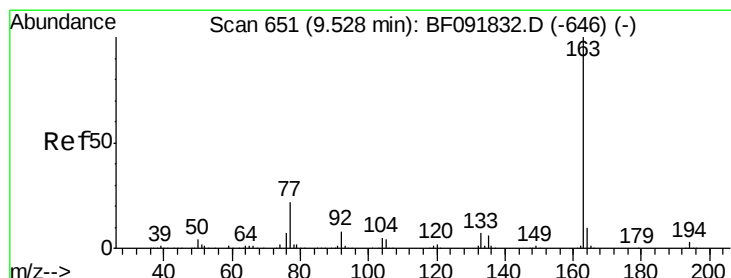
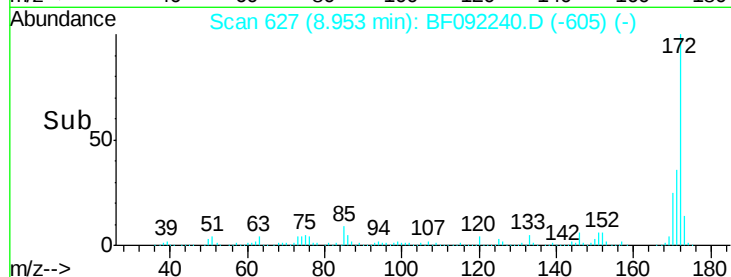
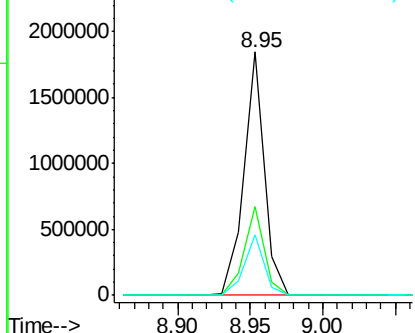
#44  
 2-Fluorobiphenyl  
 Concen: 75.97 ng  
 RT: 8.95 min Scan# 627  
 Delta R.T. -0.05 min  
 Lab File: BF092240.D  
 Acq: 13 Jan 2017 10:56

Instrument :  
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Tgt Ion:172 Resp: 1806007  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 29.4 44.0  
 170 24.7 20.2 30.4

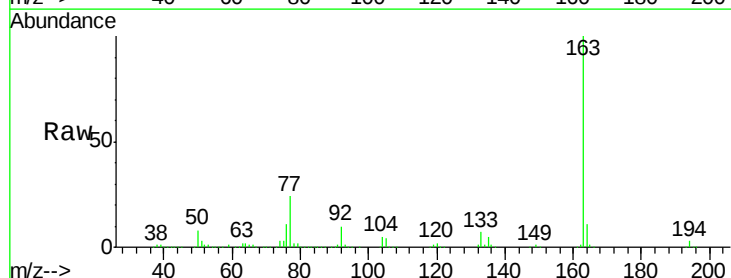


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

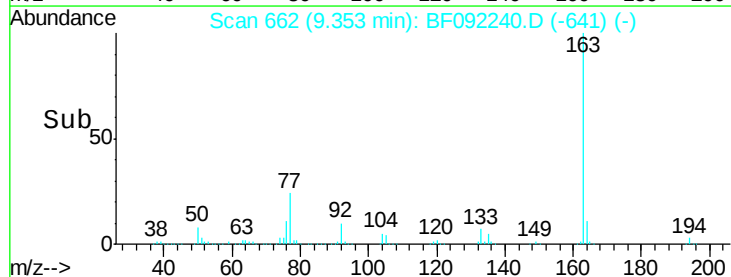
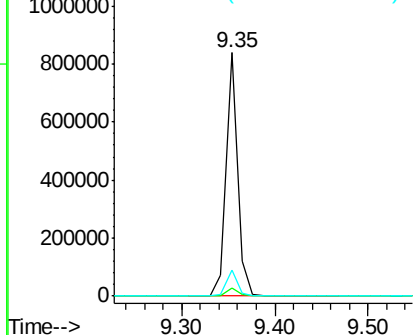


#49  
 Dimethylphthalate  
 Concen: 23.36 ng  
 RT: 9.35 min Scan# 662  
 Delta R.T. -0.07 min  
 Lab File: BF092240.D  
 Acq: 13 Jan 2017 10:56

Tgt Ion:163 Resp: 714903  
 Ion Ratio Lower Upper  
 163 100  
 194 3.1 3.0 4.4  
 164 10.6 8.0 12.0



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





#56

2,4-Dinitrotoluene

Concen: 7.34 ng

RT: 9.62 min Scan# 685

Delta R.T. -0.27 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

Instrument :

BNA\_F

ClientSampleId :

DUP

Tgt Ion:165 Resp: 61689

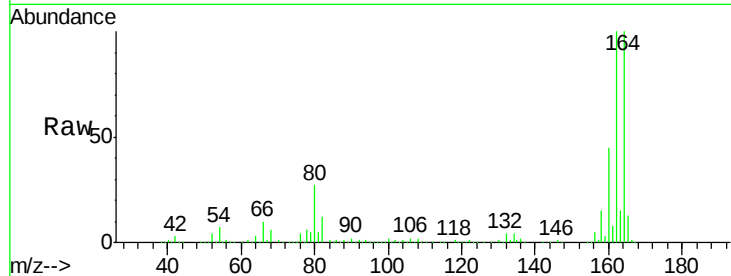
Ion Ratio Lower Upper

165 100

63 0.9 40.2 60.4#

89 1.3 62.5 93.7#

182 0.0 1.8 2.8#

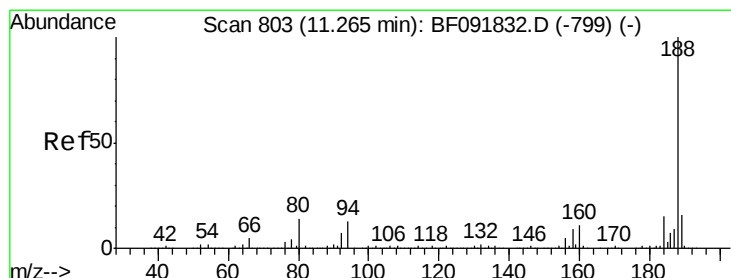
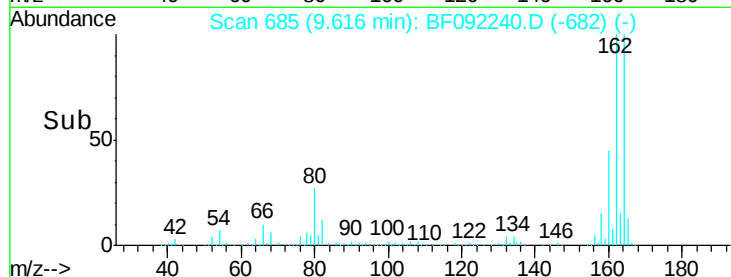
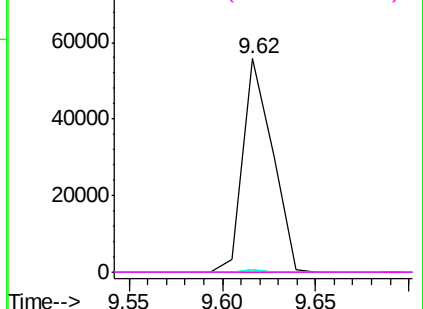


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.10 min Scan# 815

Delta R.T. -0.05 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

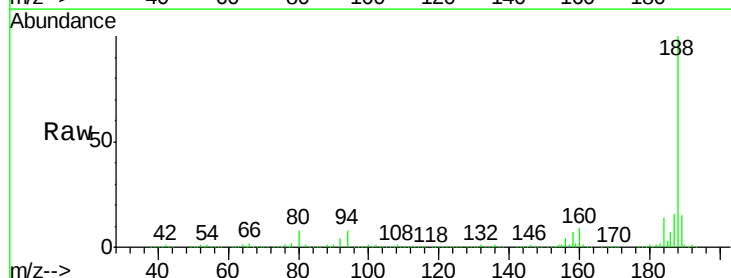
Tgt Ion:188 Resp: 745669

Ion Ratio Lower Upper

188 100

94 7.9 10.0 15.0#

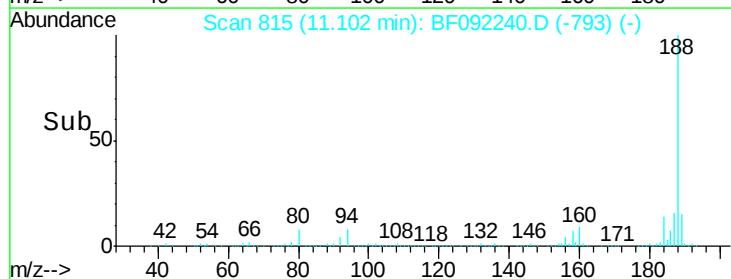
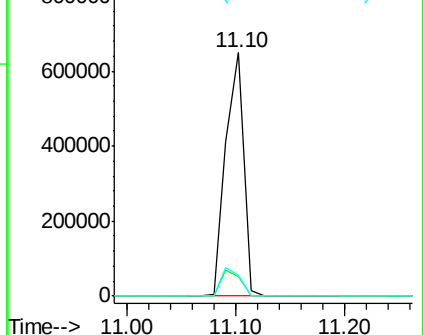
80 8.4 11.2 16.8#

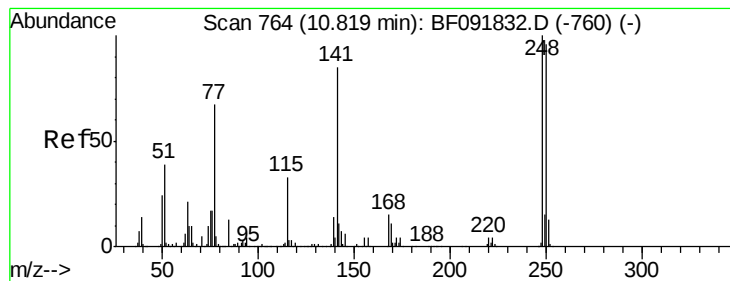


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#66

4-Bromophenyl-phenylether

Concen: 4.69 ng

RT: 10.42 min Scan# 755

Delta R.T. -0.29 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

Instrument :

BNA\_F

ClientSampleId :

DUP

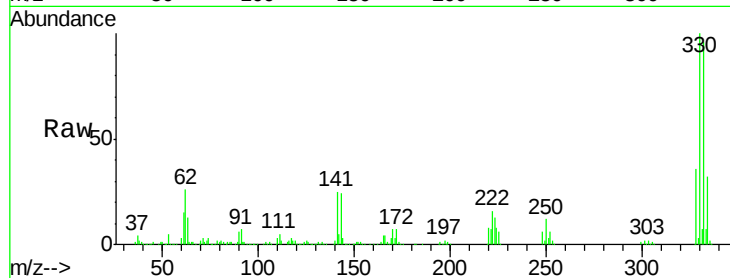
Tgt Ion:248 Resp: 36381

Ion Ratio Lower Upper

248 100

250 194.0 76.9 115.3#

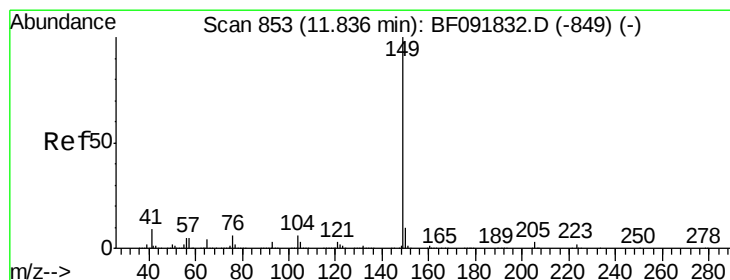
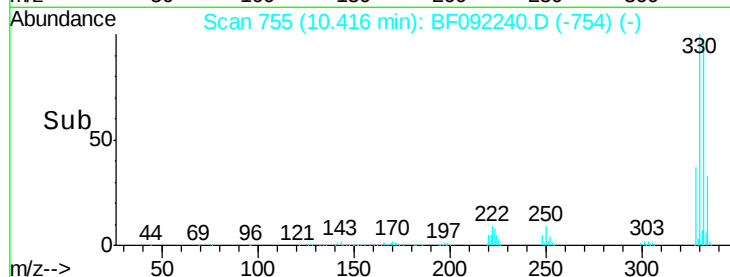
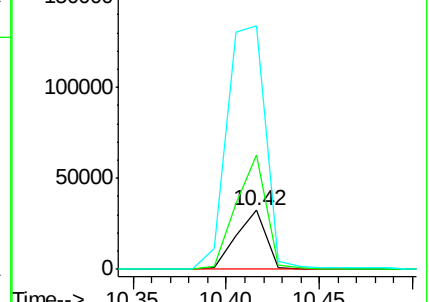
141 413.8 68.2 102.4#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#73

Di-n-butylphthalate

Concen: Below Cal

RT: 11.67 min Scan# 865

Delta R.T. -0.05 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

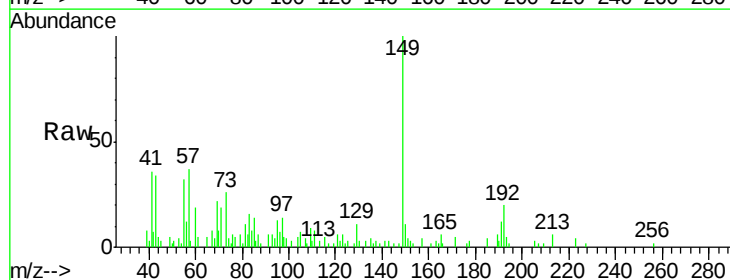
Tgt Ion:149 Resp: 15304

Ion Ratio Lower Upper

149 100

150 11.3 8.1 12.1

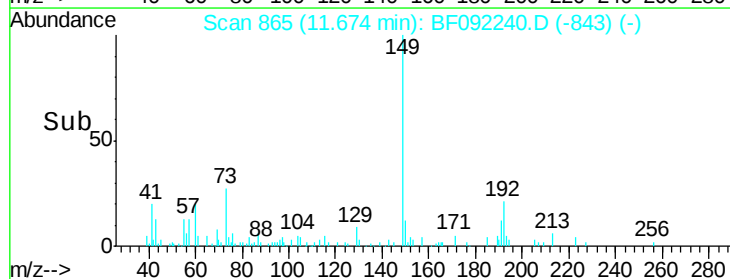
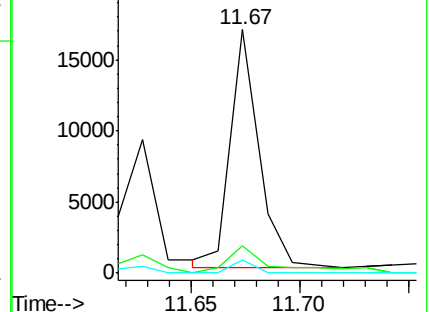
104 5.3 4.6 7.0

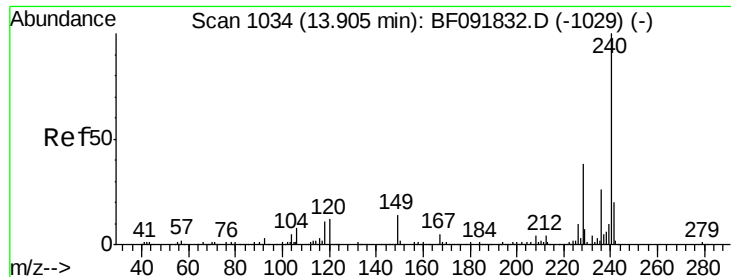


Abundance Ion 149.00 (148.70 to 149.70): E

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: 13.73 min Scan# 1045

Delta R.T. -0.05 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

Instrument :

BNA\_F

ClientSampleId :

DUP

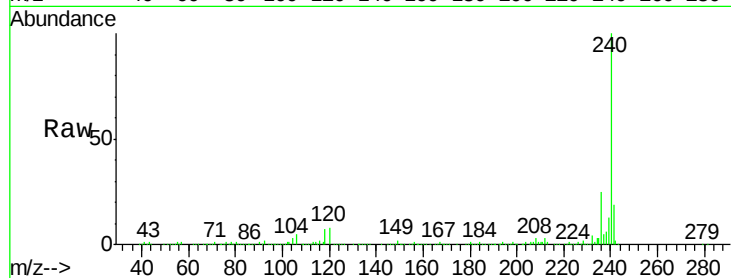
Tgt Ion:240 Resp: 465847

Ion Ratio Lower Upper

240 100

120 8.4 12.9 19.3#

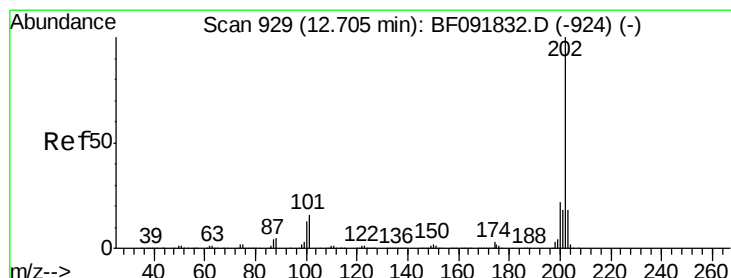
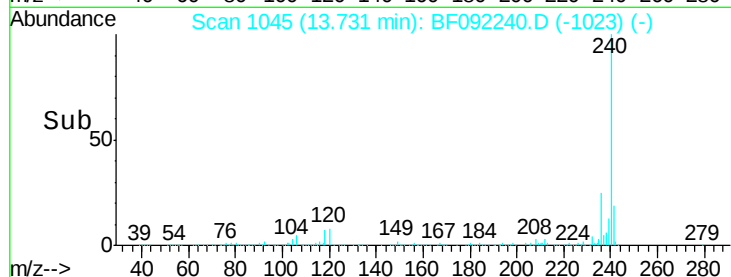
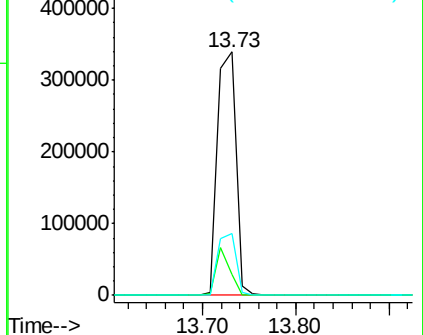
236 25.4 20.9 31.3



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: 3.04 ng

RT: 12.53 min Scan# 940

Delta R.T. -0.05 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

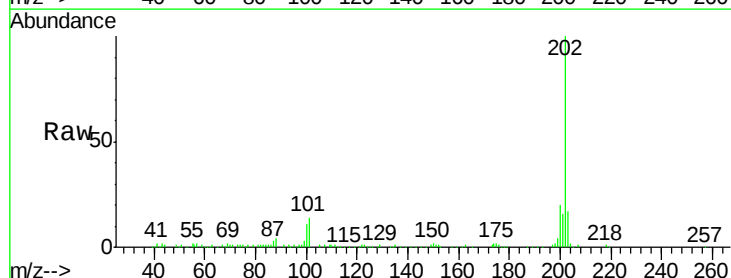
Tgt Ion:202 Resp: 103998

Ion Ratio Lower Upper

202 100

200 19.7 17.7 26.5

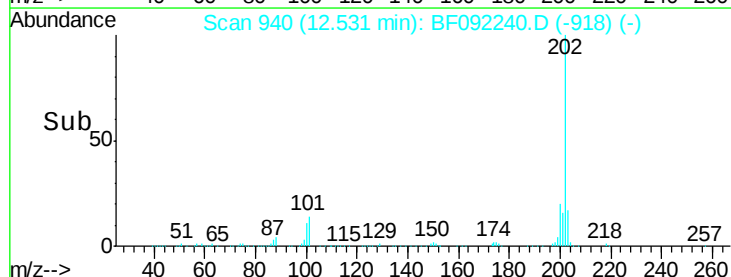
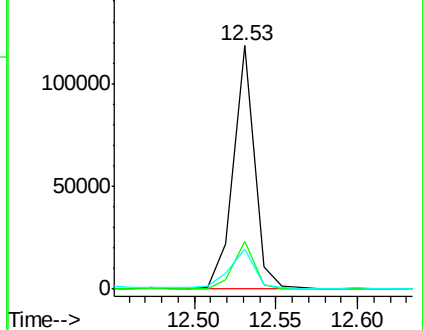
203 16.6 14.7 22.1

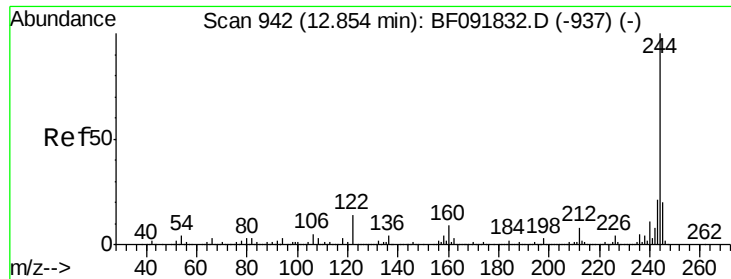


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 95.15 ng

RT: 12.69 min Scan# 954

Delta R.T. -0.05 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

Instrument :

BNA\_F

ClientSampleId :

DUP

Tgt Ion:244 Resp: 1827600

Ion Ratio Lower Upper

244 100

212 6.6

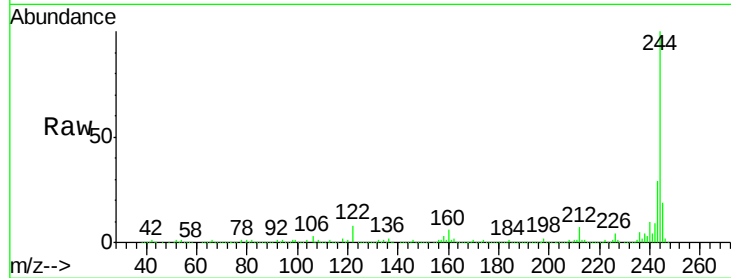
6.2

9.2

122 8.1

11.4

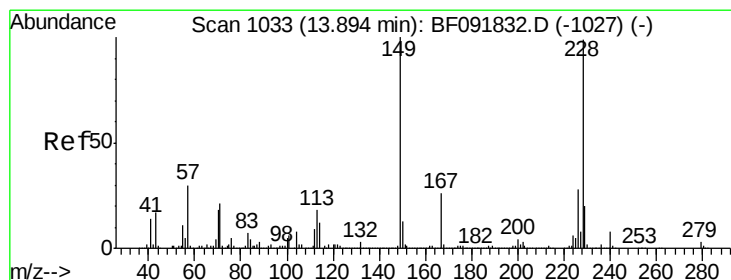
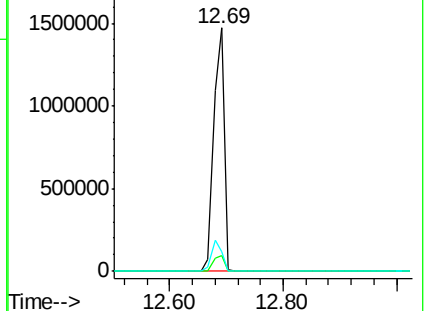
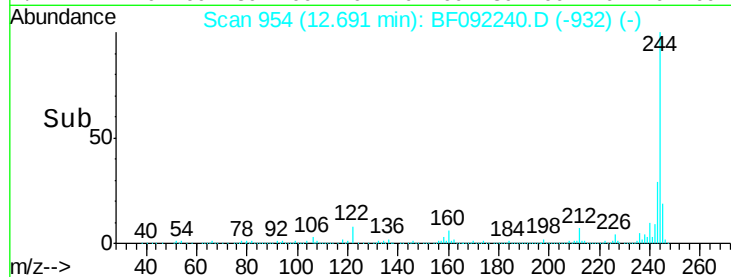
17.2#



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: 2.05 ng

RT: 13.72 min Scan# 1044

Delta R.T. -0.05 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

Tgt Ion:228 Resp: 54037

Ion Ratio Lower Upper

228 100

226 34.1

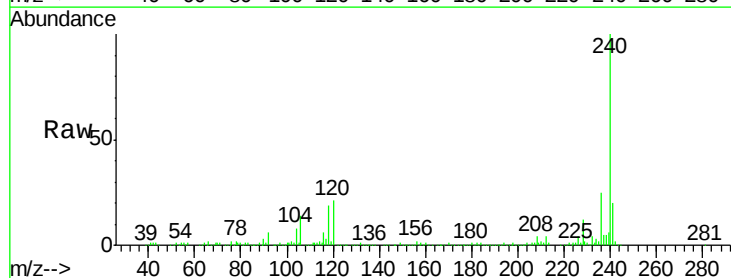
22.4

33.6#

229 21.0

16.2

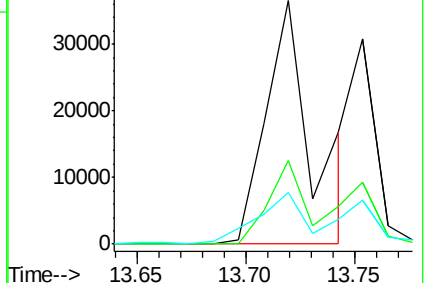
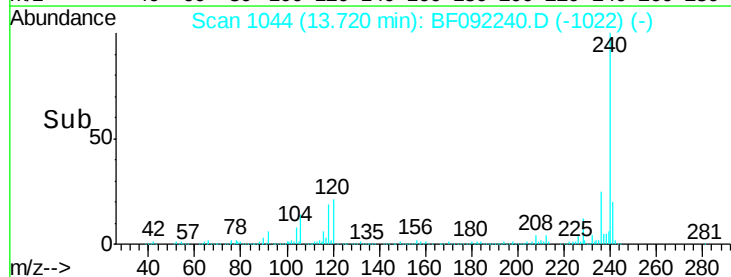
24.4

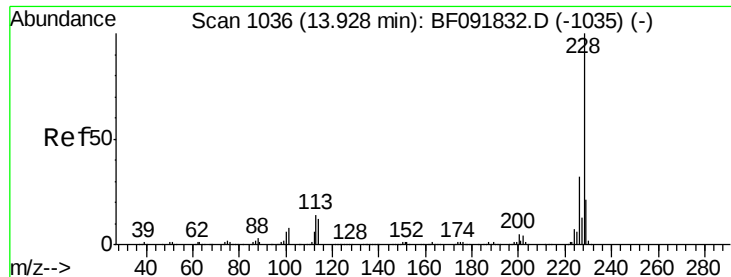


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 2.05 ng

RT: 13.72 min Scan# 1044

Delta R.T. -0.09 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

Instrument :

BNA\_F

ClientSampled :

DUP

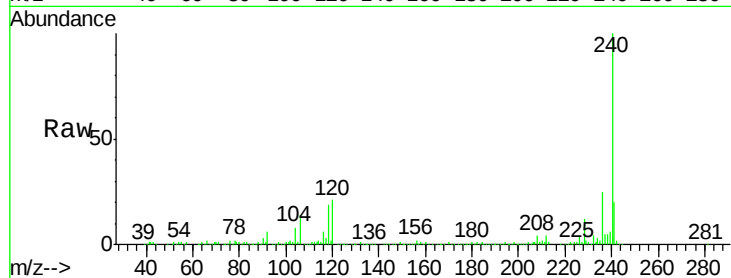
Tgt Ion:228 Resp: 54037

Ion Ratio Lower Upper

228 100

226 34.1 25.4 38.0

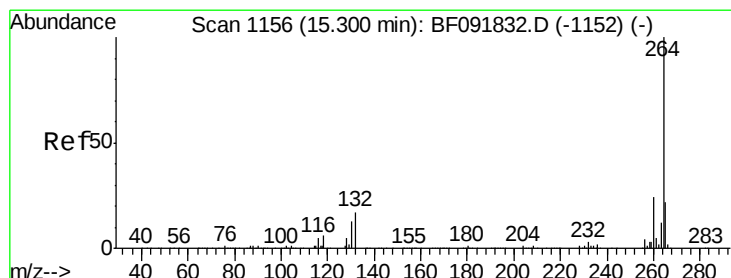
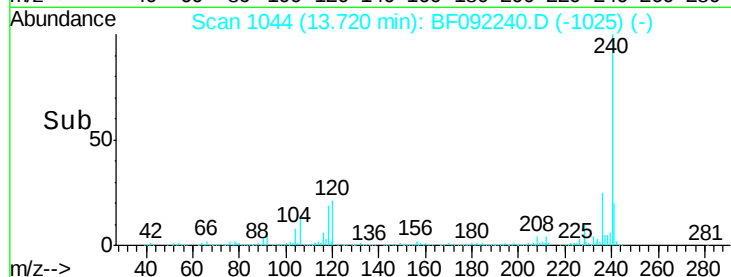
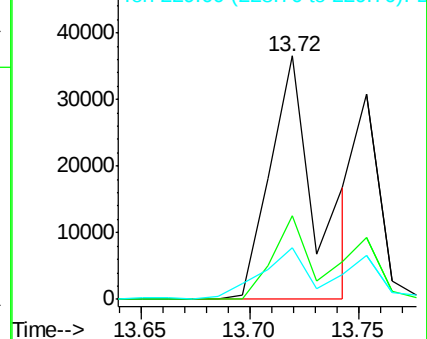
229 21.0 16.2 24.2



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.08 min Scan# 1163

Delta R.T. -0.07 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

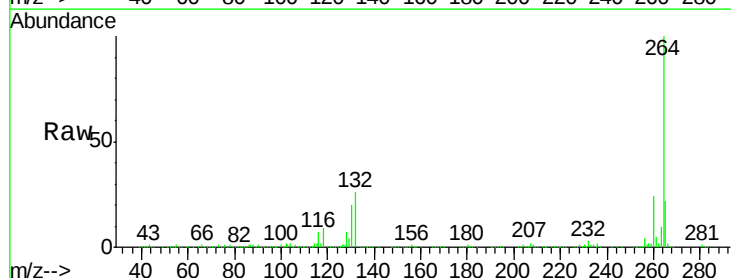
Tgt Ion:264 Resp: 443270

Ion Ratio Lower Upper

264 100

260 23.7 19.2 28.8

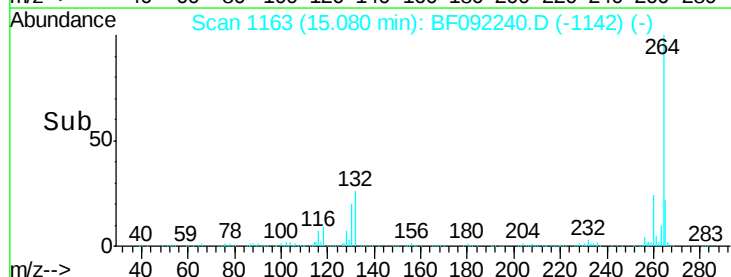
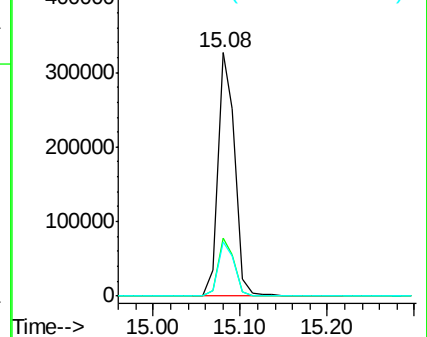
265 22.4 17.4 26.0

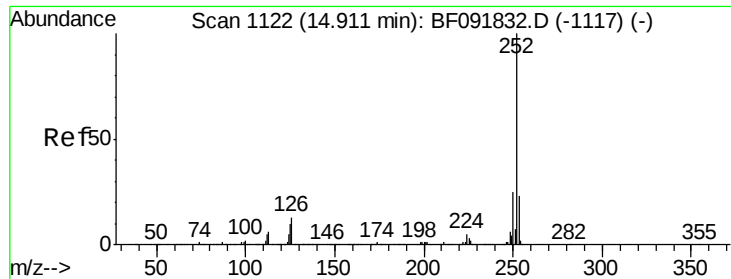


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 2.30 ng

RT: 14.73 min Scan# 1132

Delta R.T. -0.05 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

Instrument :

BNA\_F

ClientSampleId :

DUP

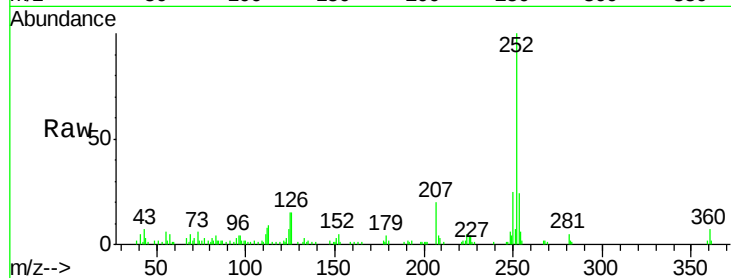
Tgt Ion:252 Resp: 63354

Ion Ratio Lower Upper

252 100

253 24.1 18.2 27.4

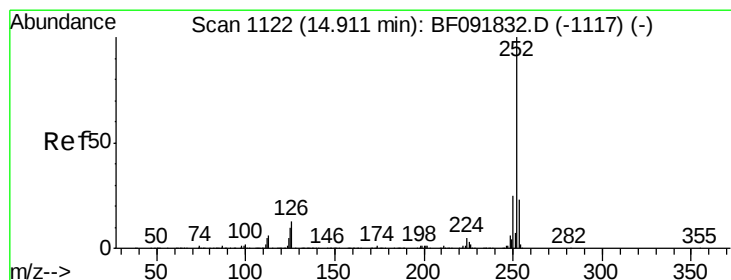
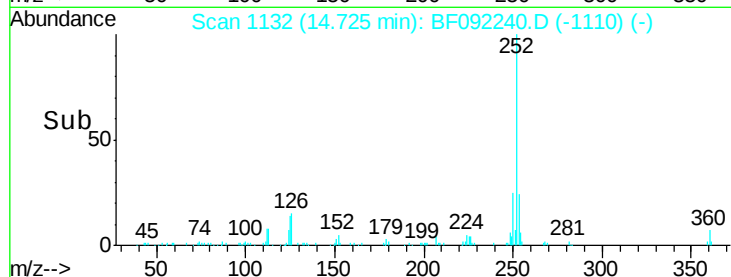
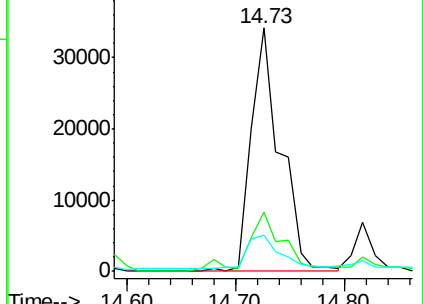
125 15.1 9.8 14.6#



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: 2.69 ng

RT: 14.73 min Scan# 1132

Delta R.T. -0.08 min

Lab File: BF092240.D

Acq: 13 Jan 2017 10:56

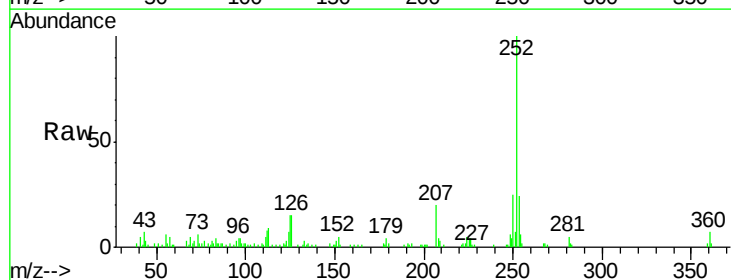
Tgt Ion:252 Resp: 63354

Ion Ratio Lower Upper

252 100

253 24.1 18.5 27.7

125 15.1 8.9 13.3#



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

