

Data File : BF093254.D  
Acq On : 28 Feb 2017 17:51  
Operator : SJ/MA  
Sample : I2017-07  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TK3-6-20170227

Quant Time: Mar 01 02:22:34 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 17 17:31:55 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.81  | 152  | 141031   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 8.10  | 136  | 524062   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 9.85  | 164  | 210127   | 20.00 | ng    | -0.05    |
| 63) Phenanthrene-d10      | 11.33 | 188  | 332806   | 20.00 | ng    | -0.05    |
| 75) Chrysene-d12          | 13.97 | 240  | 290700   | 20.00 | ng    | -0.05    |
| 86) Perylene-d12          | 15.40 | 264  | 235777   | 20.00 | ng    | -0.05    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.41  | 112 | 1073507 | 130.59 | ng | -0.03 |
| 7) Phenol-d6                | 6.46  | 99  | 1217177 | 115.08 | ng | -0.02 |
| 23) Nitrobenzene-d5         | 7.38  | 82  | 734289  | 78.03  | ng | -0.05 |
| 41) 2,4,6-Tribromophenol    | 10.64 | 330 | 160432  | 105.56 | ng | -0.05 |
| 44) 2-Fluorobiphenyl        | 9.17  | 172 | 1088027 | 93.81  | ng | -0.05 |
| 78) Terphenyl-d14           | 12.92 | 244 | 714393  | 57.74  | ng | -0.05 |

|                                |       |     |         |        |    |      |
|--------------------------------|-------|-----|---------|--------|----|------|
| Target Compounds               |       |     |         | Qvalue |    |      |
| 10) Phenol                     | 6.48  | 94  | 98507   | 7.96   | ng | 90   |
| 19) n-Nitroso-di-n-propylamine | 7.38  | 70  | 97831   | 14.53  | ng | # 84 |
| 25) Isophorone                 | 7.38  | 82  | 625084  | 35.65  | ng | # 65 |
| 31) Naphthalene                | 8.12  | 128 | 76491   | 2.88   | ng | 98   |
| 32) Benzoic acid               | 7.90  | 122 | 4528    | 8.01   | ng | # 33 |
| 48) Acenaphthylene             | 9.71  | 152 | 395286  | 19.22  | ng | 98   |
| 49) Dimethylphthalate          | 9.56  | 163 | 104328  | 7.37   | ng | 98   |
| 51) Acenaphthene               | 9.88  | 154 | 25470   | 2.07   | ng | 93   |
| 54) Dibenzofuran               | 10.05 | 168 | 49841   | 3.03   | ng | 91   |
| 55) 4-Nitrophenol              | 10.05 | 139 | 18304   | 7.27   | ng | # 8  |
| 64) 4,6-Dinitro-2-methylphenol | 10.64 | 198 | 485     | 2.89   | ng | # 1  |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248 | 12043   | 3.46   | ng | # 1  |
| 70) Phenanthrene               | 11.36 | 178 | 1010525 | 53.00  | ng | 99   |
| 71) Anthracene                 | 11.40 | 178 | 297143  | 15.52  | ng | 97   |
| 72) Carbazole                  | 11.56 | 167 | 129083  | 7.05   | ng | 98   |
| 74) Fluoranthene               | 12.55 | 202 | 1607669 | 81.74  | ng | 98   |
| 77) Pyrene                     | 12.79 | 202 | 1604570 | 73.76  | ng | 98   |
| 80) Benzo(a)anthracene         | 13.96 | 228 | 951293  | 53.50  | ng | 93   |
| 82) Chrysene                   | 14.01 | 228 | 821169  | 49.33  | ng | 98   |
| 83) Bis(2-ethylhexyl)phthalate | 13.95 | 149 | 191836  | 15.88  | ng | # 96 |
| 85) Indeno(1,2,3-cd)pyrene     | 16.81 | 276 | 485266  | 37.63  | ng | 99   |
| 87) Benzo(b)fluoranthene       | 15.00 | 252 | 1403825 | 90.46  | ng | 98   |
| 88) Benzo(k)fluoranthene       | 15.00 | 252 | 1403825 | 104.77 | ng | # 98 |
| 89) Benzo(a)pyrene             | 15.35 | 252 | 667212  | 49.70  | ng | # 94 |
| 90) Dibenzo(a,h)anthracene     | 16.61 | 278 | 66681   | 6.15   | ng | 93   |
| 91) Benzo(g,h,i)perylene       | 17.23 | 276 | 463644  | 42.30  | ng | # 93 |

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

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TK3-6-20170227

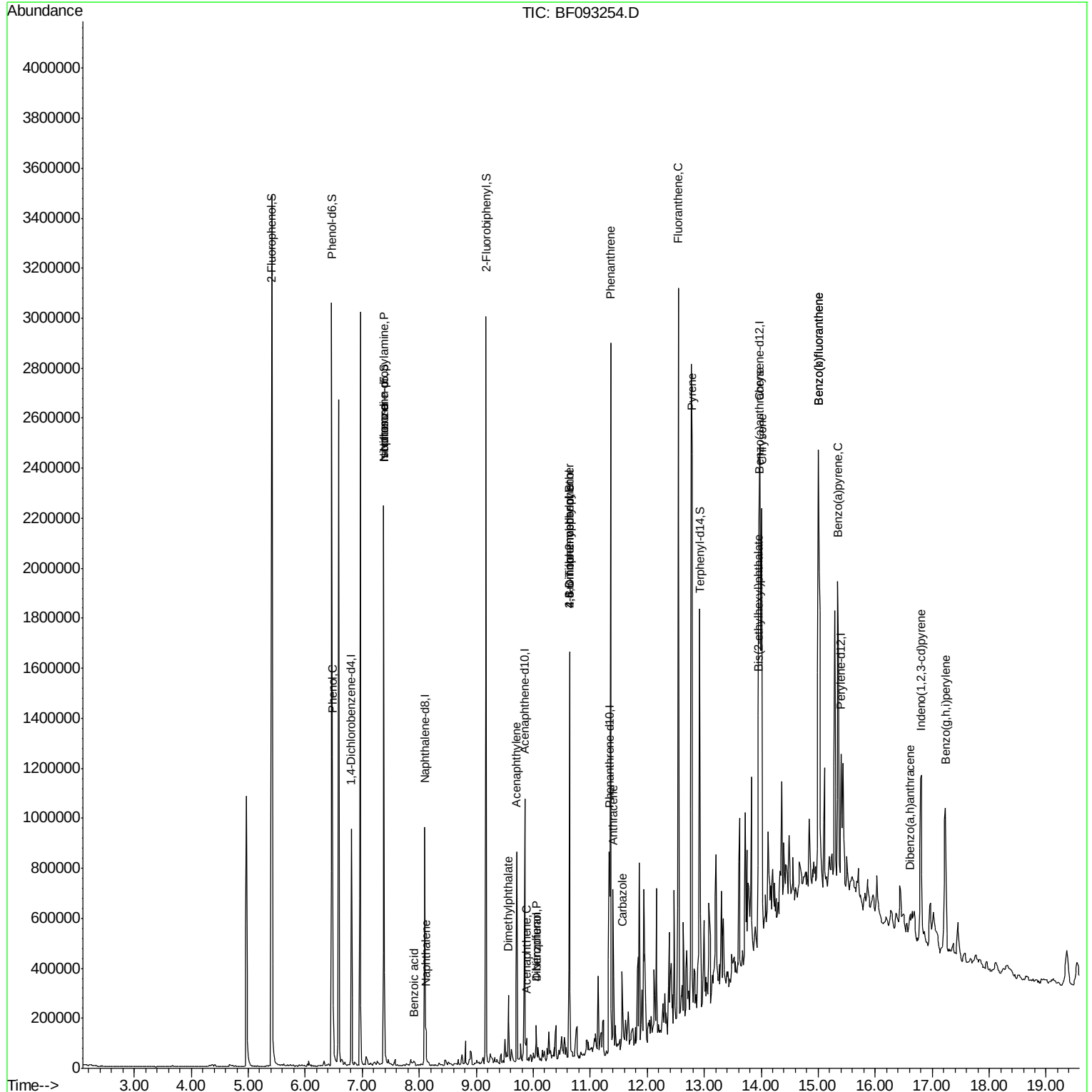
Quant Time: Mar 01 02:22:34 2017

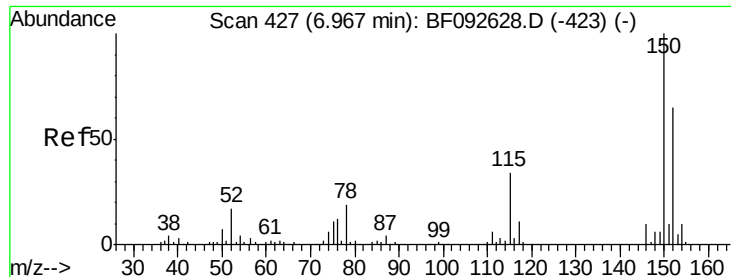
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Feb 17 17:31:55 2017

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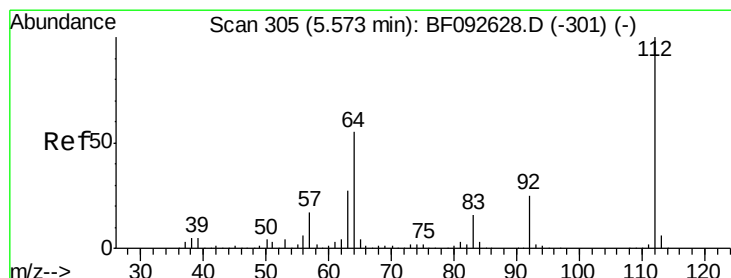
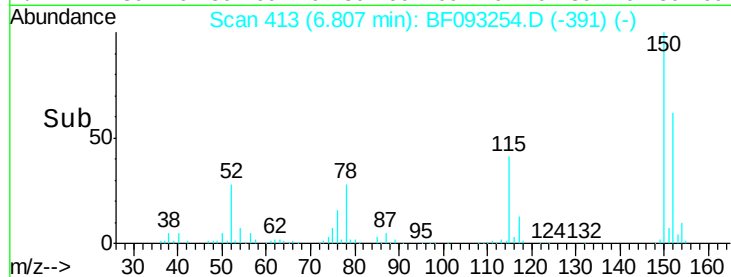
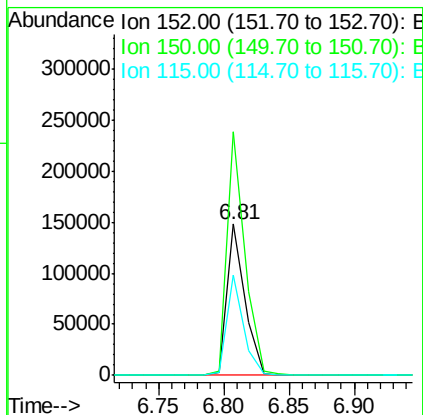
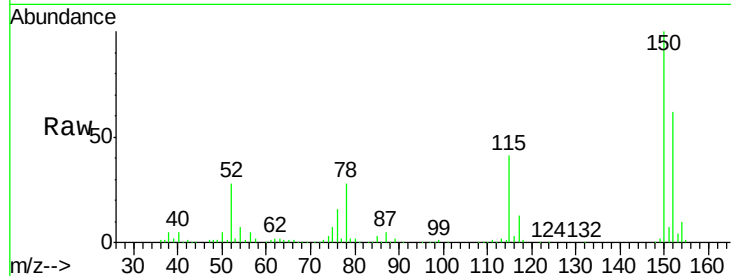


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.81 min Scan# 413  
Delta R.T. -0.05 min  
Lab File: BF093254.D  
Acq: 28 Feb 2017 17:51

Instrument :  
BNA\_F  
ClientSampleId :  
TK3-6-20170227

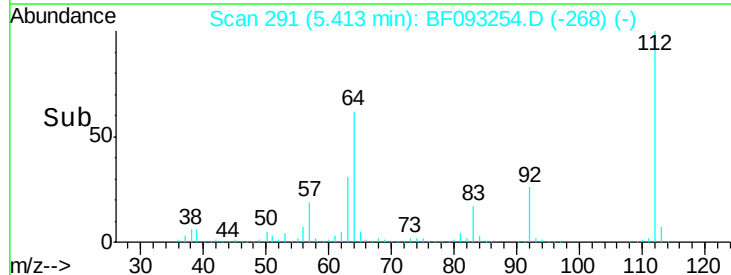
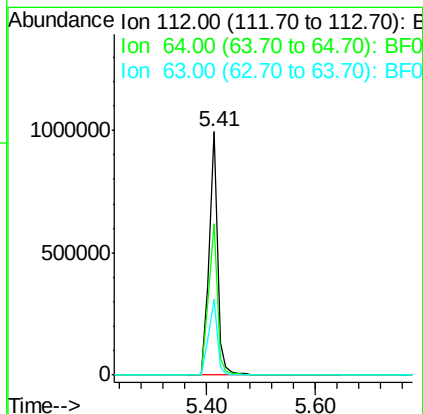
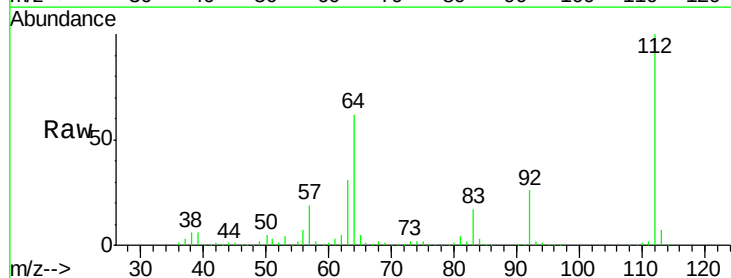
Tgt Ion:152 Resp: 141031  
Ion Ratio Lower Upper  
152 100  
150 161.1 124.9 187.3  
115 66.2 46.0 69.0

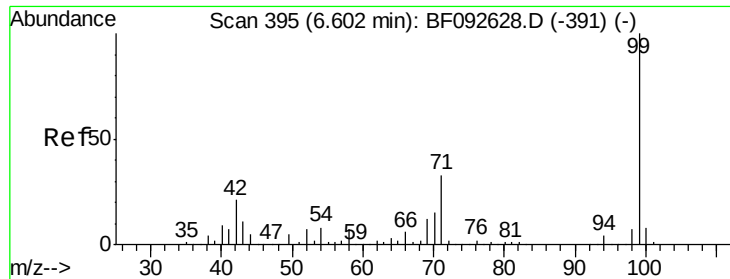


#5

2-Fluorophenol  
Concen: 130.59 ng  
RT: 5.41 min Scan# 291  
Delta R.T. -0.03 min  
Lab File: BF093254.D  
Acq: 28 Feb 2017 17:51

Tgt Ion:112 Resp: 1073507  
Ion Ratio Lower Upper  
112 100  
64 62.1 46.1 69.1  
63 31.1 23.8 35.6





#7

Phenol-d6

Concen: 115.08 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.02 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

Instrument :

BNA\_F

ClientSampleId :

TK3-6-20170227

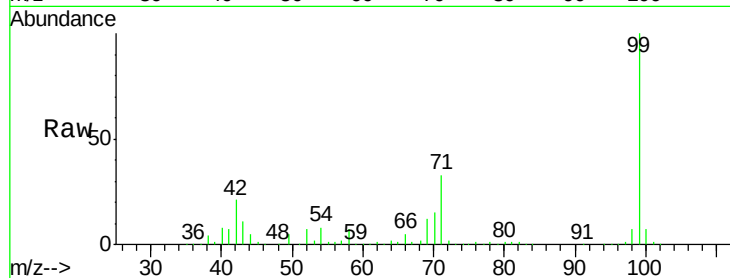
Tgt Ion: 99 Resp: 1217177

Ion Ratio Lower Upper

99 100

42 20.7 15.6 23.4

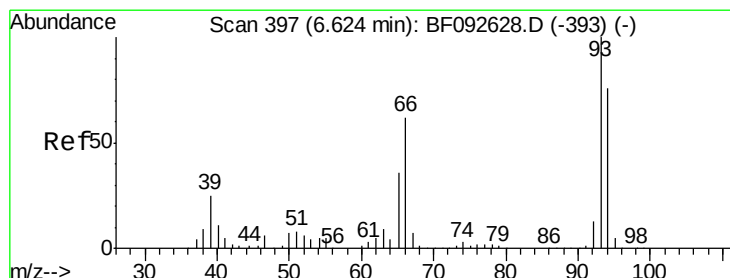
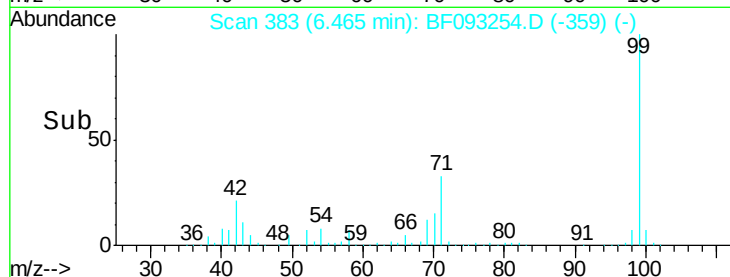
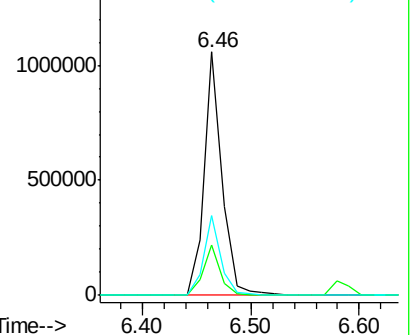
71 32.9 27.5 41.3



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



#10

Phenol

Concen: 7.96 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.03 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

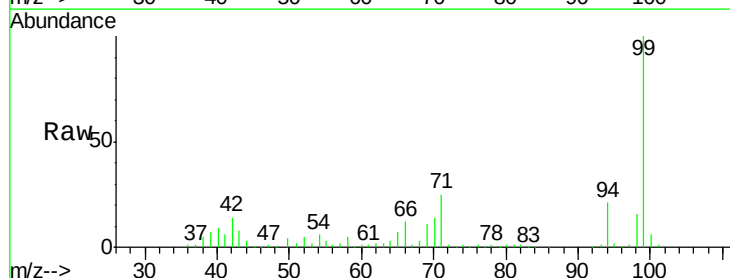
Tgt Ion: 94 Resp: 98507

Ion Ratio Lower Upper

94 100

65 33.7 21.4 61.4

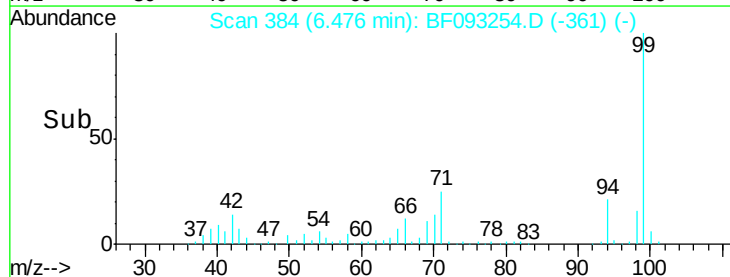
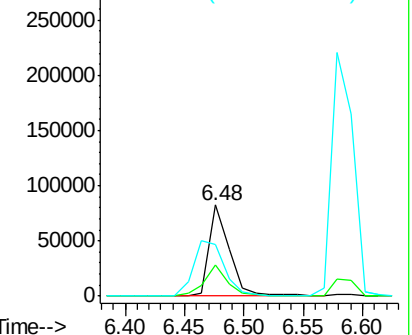
66 57.1 44.0 84.0

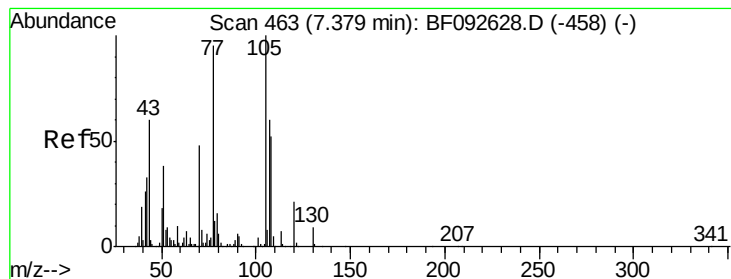


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 14.53 ng

RT: 7.38 min Scan# 463

Delta R.T. 0.10 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

Instrument :

BNA\_F

ClientSampleId :

TK3-6-20170227

Tgt Ion: 70 Resp: 97831

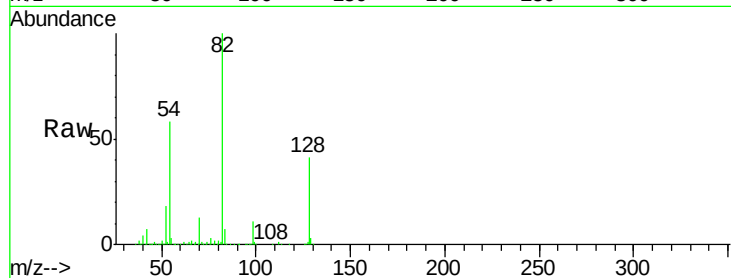
Ion Ratio Lower Upper

70 100

42 54.6 49.4 74.0

101 0.0 7.4 11.2#

130 2.2 14.2 21.4#



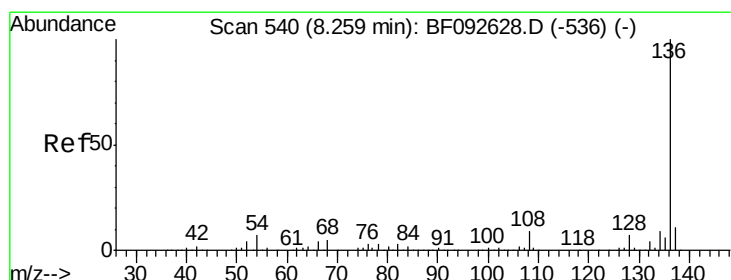
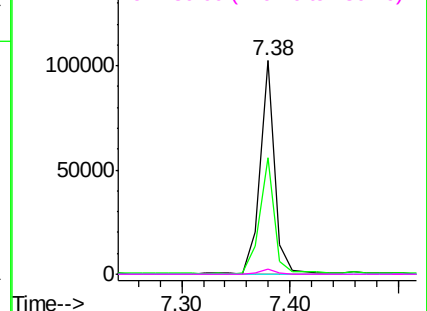
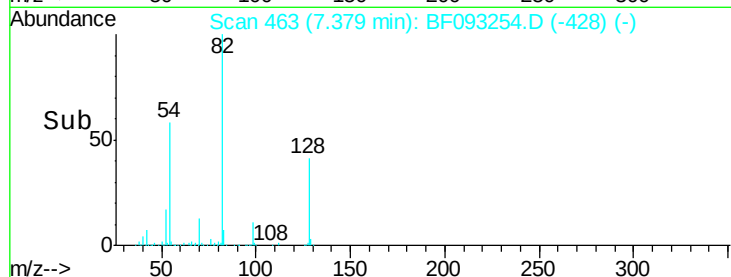
Abundance

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): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 526

Delta R.T. -0.05 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

Tgt Ion: 136 Resp: 524062

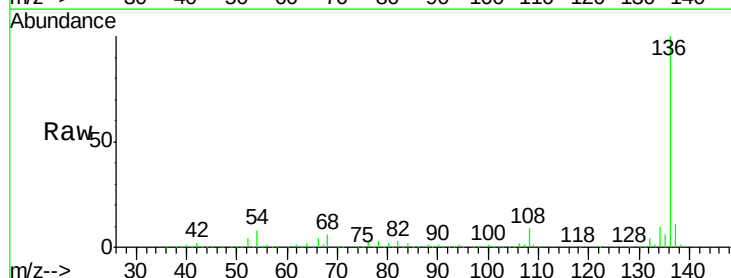
Ion Ratio Lower Upper

136 100

137 10.8 8.4 12.6

54 7.8 4.5 6.7#

68 5.7 3.6 5.4#



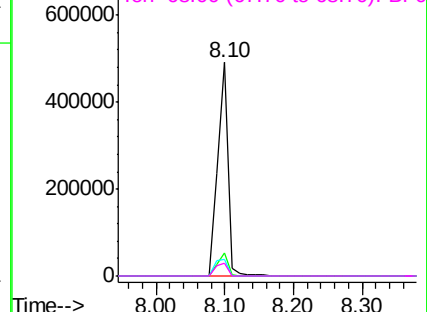
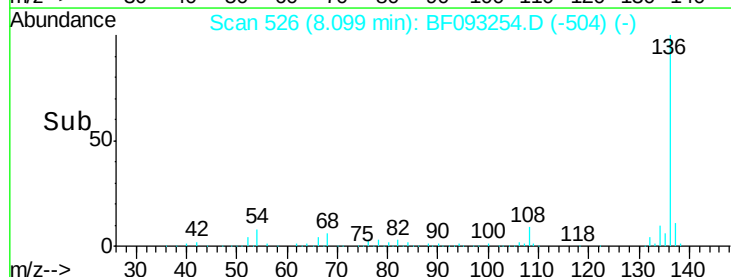
Abundance

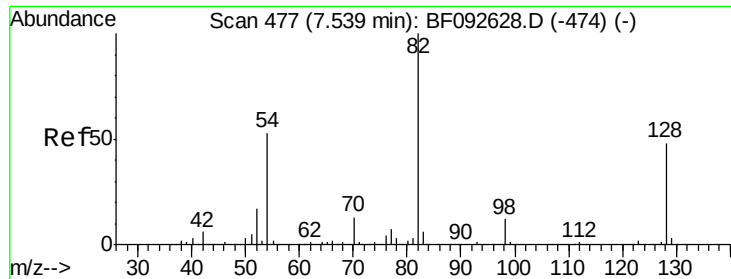
Ion 136.00 (135.70 to 136.70): E

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

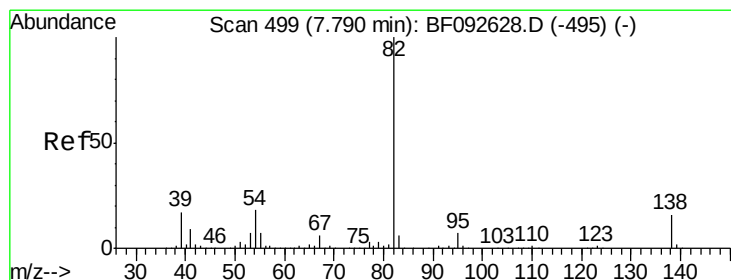
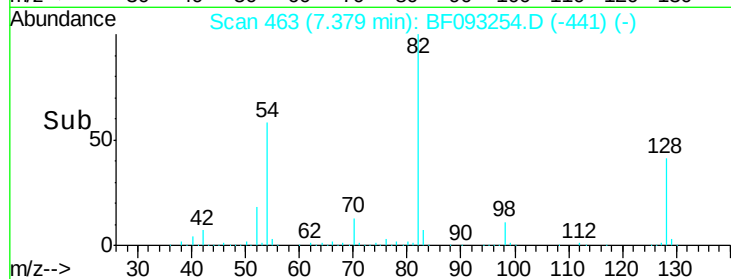
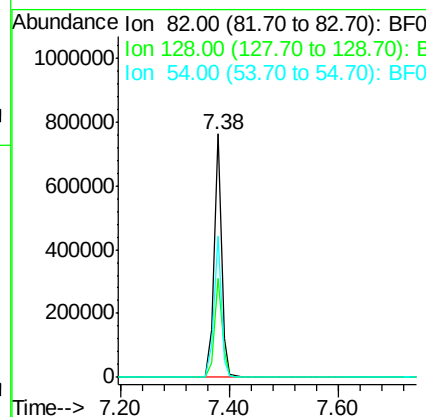
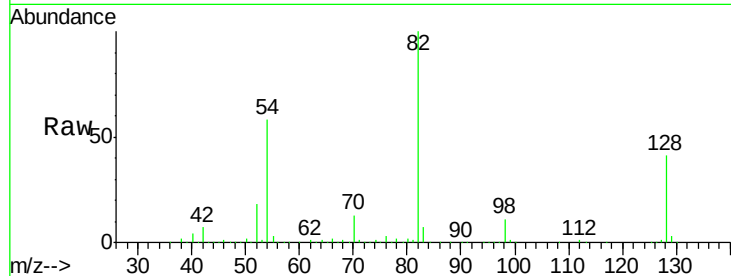




#23  
 Nitrobenzene-d5  
 Concen: 78.03 ng  
 RT: 7.38 min Scan# 463  
 Delta R.T. -0.05 min  
 Lab File: BF093254.D  
 Acq: 28 Feb 2017 17:51

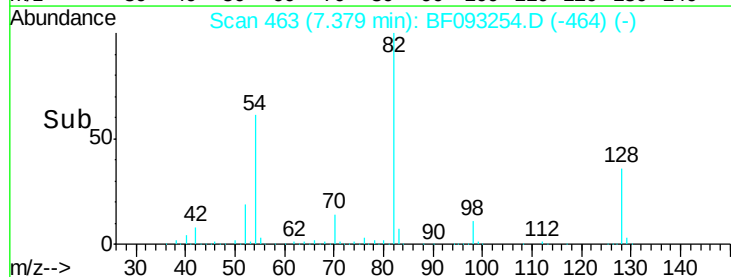
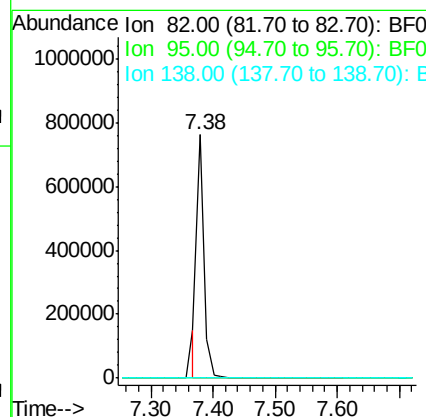
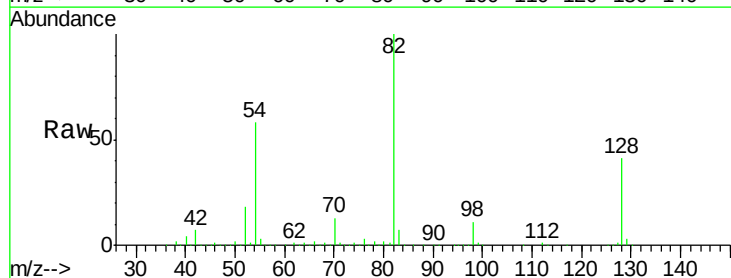
Instrument :  
 BNA\_F  
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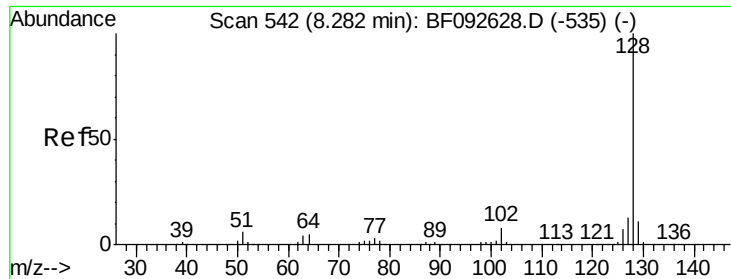
Tgt Ion: 82 Resp: 734289  
 Ion Ratio Lower Upper  
 82 100  
 128 40.8 34.6 52.0  
 54 58.1 39.5 59.3



#25  
 Isophorone  
 Concen: 35.65 ng  
 RT: 7.38 min Scan# 463  
 Delta R.T. -0.31 min  
 Lab File: BF093254.D  
 Acq: 28 Feb 2017 17:51

Tgt Ion: 82 Resp: 625084  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.6 8.4#  
 138 0.0 14.6 22.0#

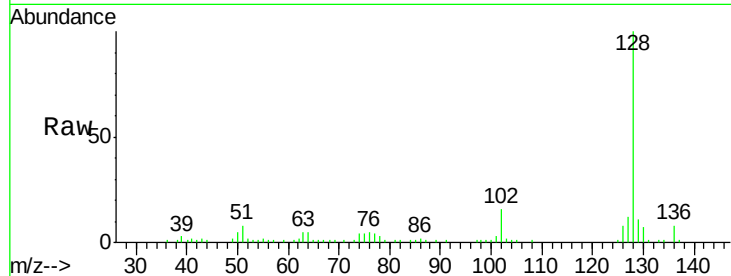




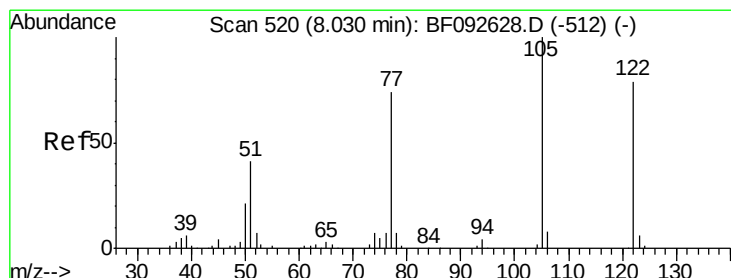
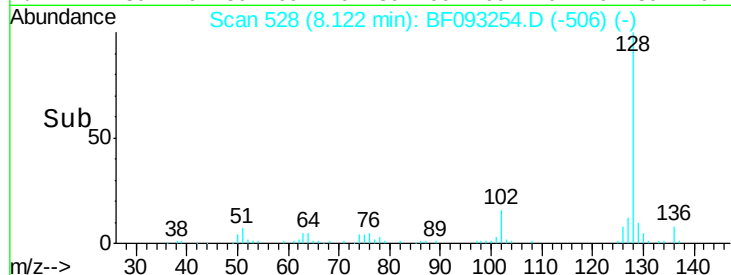
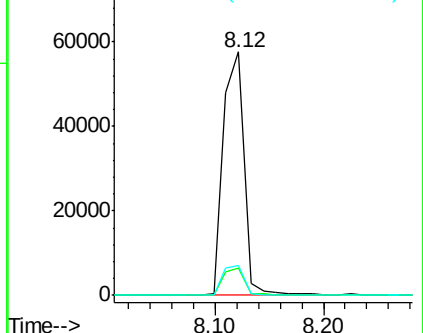
#31  
Naphthalene  
Concen: 2.88 ng  
RT: 8.12 min Scan# 528  
Delta R.T. -0.05 min  
Lab File: BF093254.D  
Acq: 28 Feb 2017 17:51

Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion:128 Resp: 76491  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.5 14.3  
127 12.4 10.8 16.2

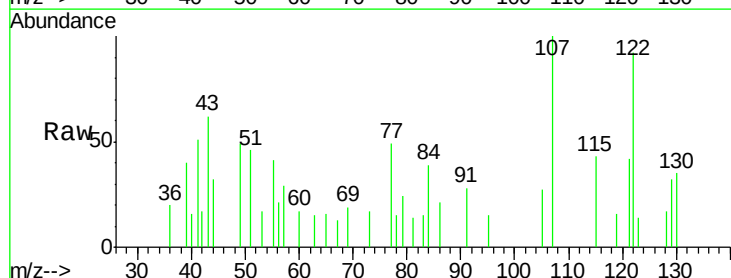


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

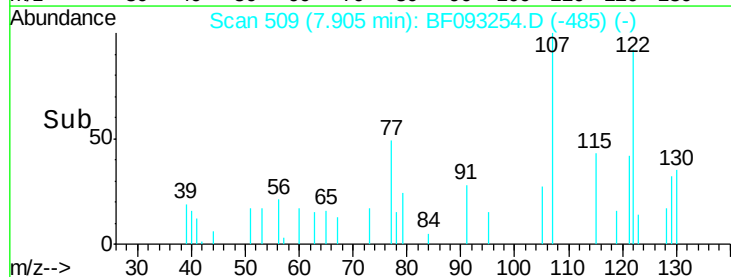
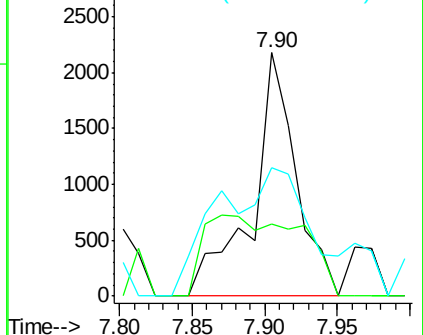


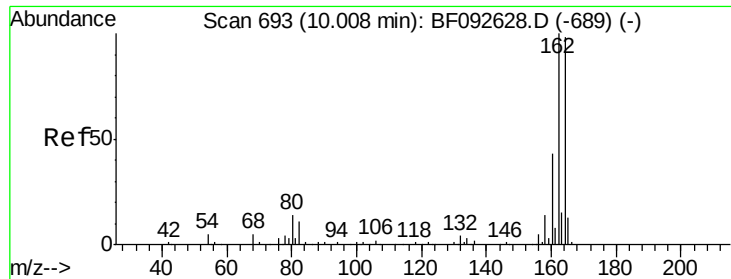
#32  
Benzoic acid  
Concen: 8.01 ng  
RT: 7.90 min Scan# 509  
Delta R.T. -0.02 min  
Lab File: BF093254.D  
Acq: 28 Feb 2017 17:51

Tgt Ion:122 Resp: 4528  
Ion Ratio Lower Upper  
122 100  
105 29.8 107.2 147.2#  
77 52.8 74.5 114.5#



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.85 min Scan# 679

Delta R.T. -0.05 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

Instrument :

BNA\_F

ClientSampleId :

TK3-6-20170227

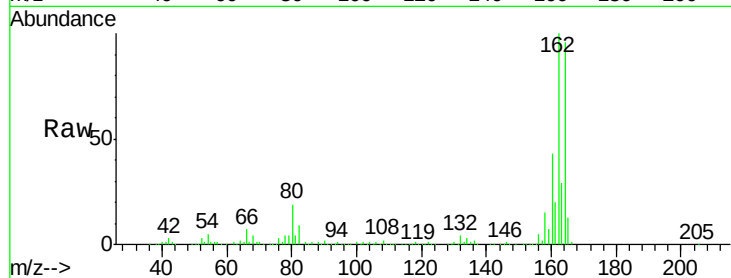
Tgt Ion:164 Resp: 210127

Ion Ratio Lower Upper

164 100

162 104.0 80.2 120.2

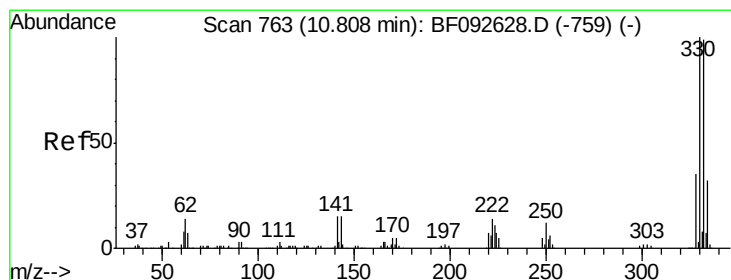
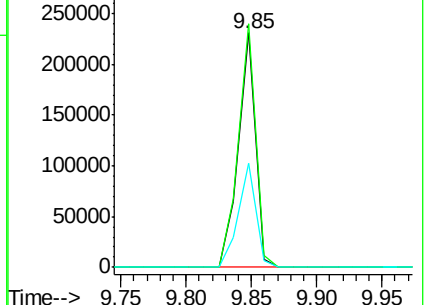
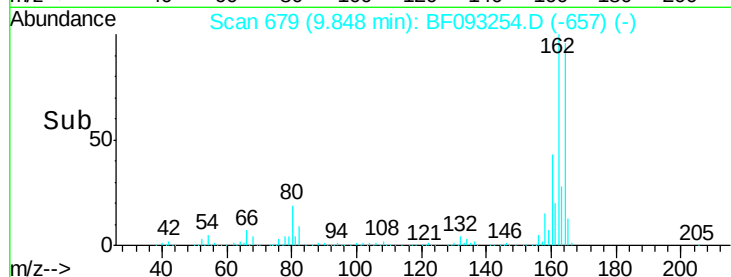
160 44.7 36.9 55.3



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: 105.56 ng

RT: 10.64 min Scan# 748

Delta R.T. -0.05 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

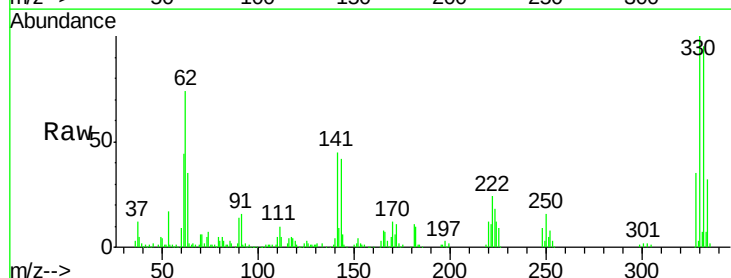
Tgt Ion:330 Resp: 160432

Ion Ratio Lower Upper

330 100

332 96.4 77.4 116.2

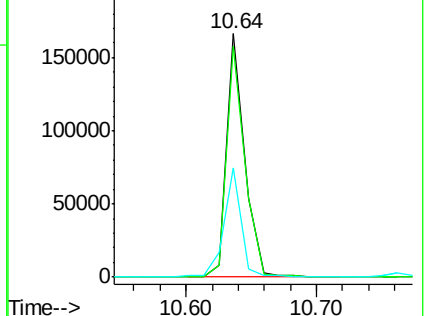
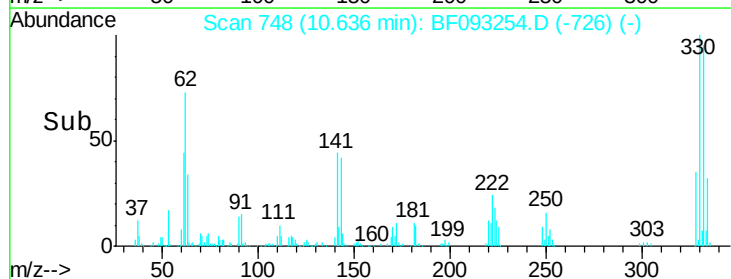
141 42.4 34.1 51.1



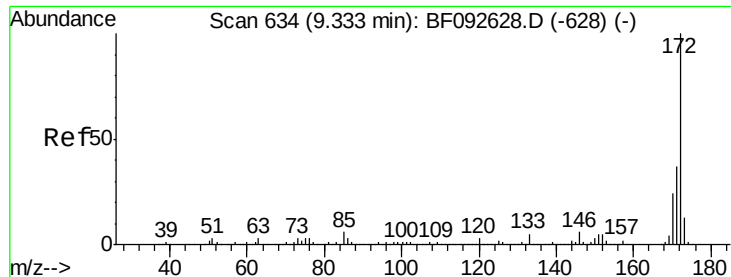
Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



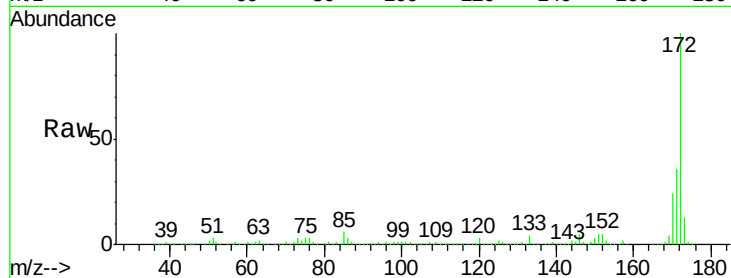




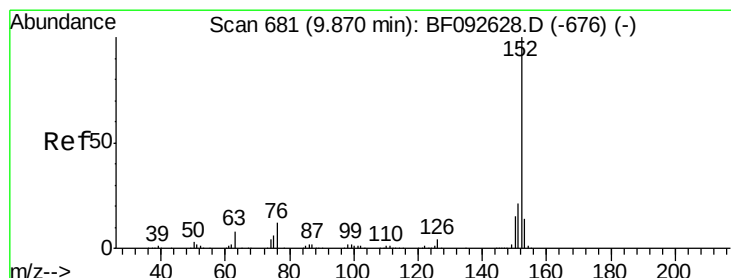
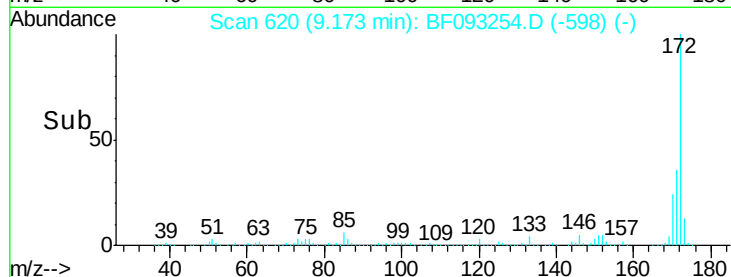
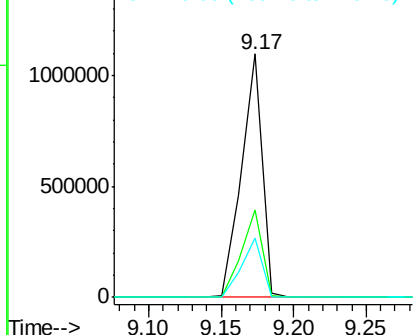
#44  
 2-Fluorobiphenyl  
 Concen: 93.81 ng  
 RT: 9.17 min Scan# 620  
 Delta R.T. -0.05 min  
 Lab File: BF093254.D  
 Acq: 28 Feb 2017 17:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TK3-6-20170227

Tgt Ion:172 Resp: 1088027  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.4 44.0  
 170 24.3 20.2 30.4

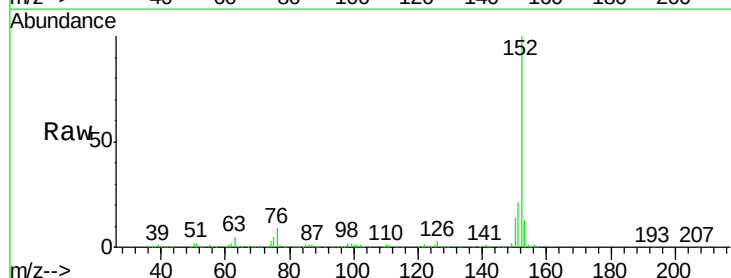


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

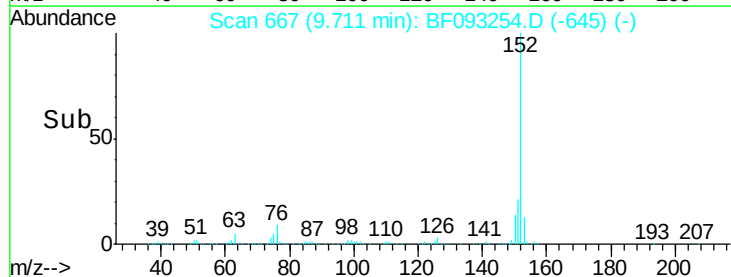
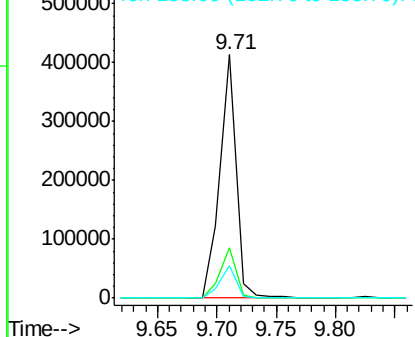


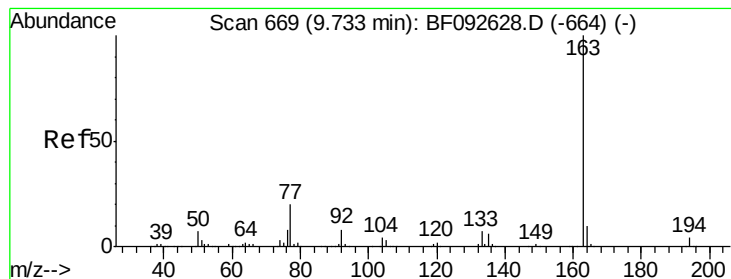
#48  
 Acenaphthylene  
 Concen: 19.22 ng  
 RT: 9.71 min Scan# 667  
 Delta R.T. -0.05 min  
 Lab File: BF093254.D  
 Acq: 28 Feb 2017 17:51

Tgt Ion:152 Resp: 395286  
 Ion Ratio Lower Upper  
 152 100  
 151 20.6 16.9 25.3  
 153 13.2 11.4 17.2



Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 151.00 (150.70 to 151.70): E  
 Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 7.37 ng

RT: 9.56 min Scan# 654

Delta R.T. -0.06 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

Instrument :

BNA\_F

ClientSampleId :

TK3-6-20170227

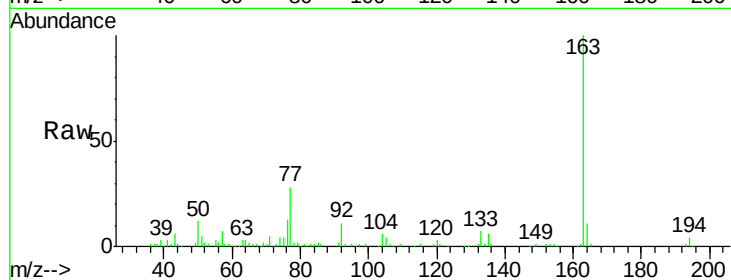
Tgt Ion:163 Resp: 104328

Ion Ratio Lower Upper

163 100

194 3.6 3.0 4.4

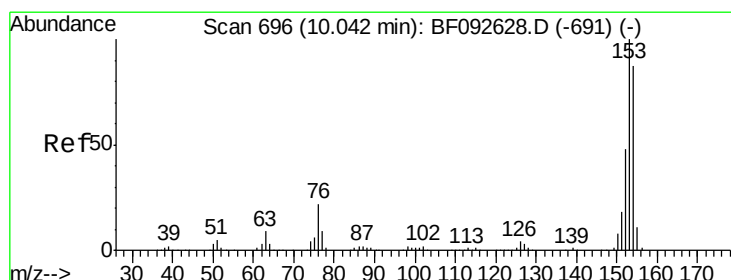
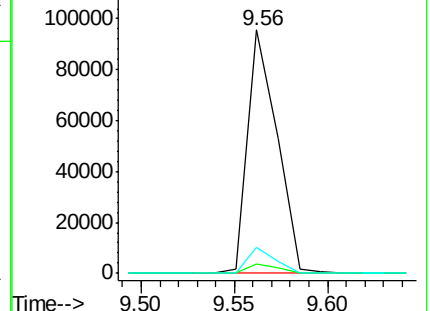
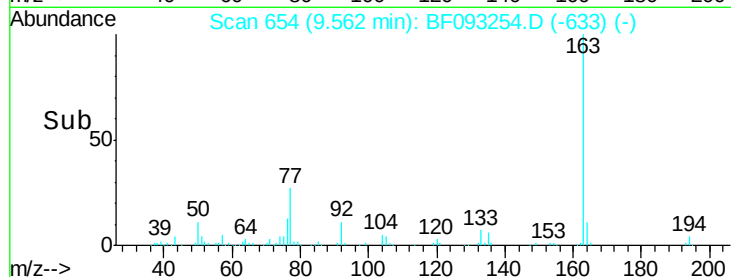
164 10.8 8.0 12.0



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



#51

Acenaphthene

Concen: 2.07 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.05 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

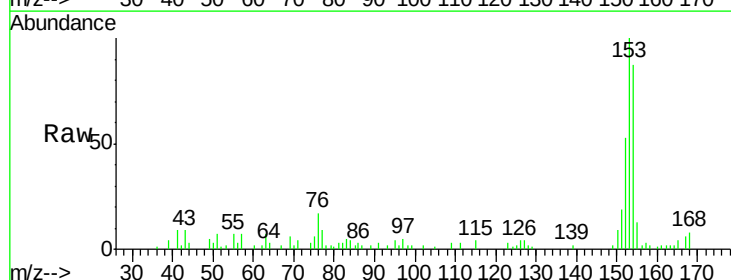
Tgt Ion:154 Resp: 25470

Ion Ratio Lower Upper

154 100

153 114.9 88.6 133.0

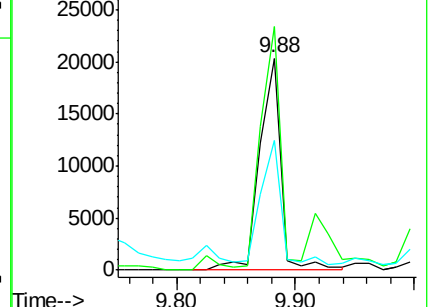
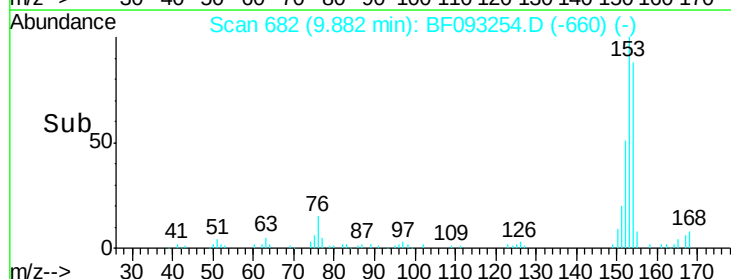
152 61.1 41.6 62.4

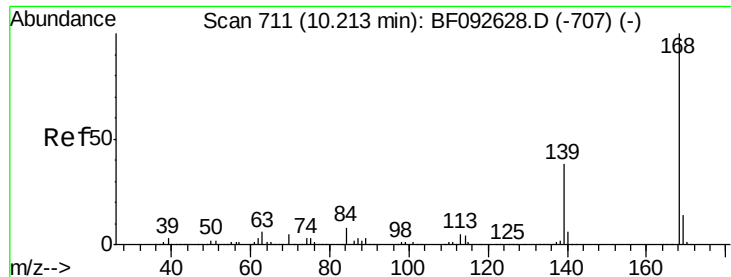


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

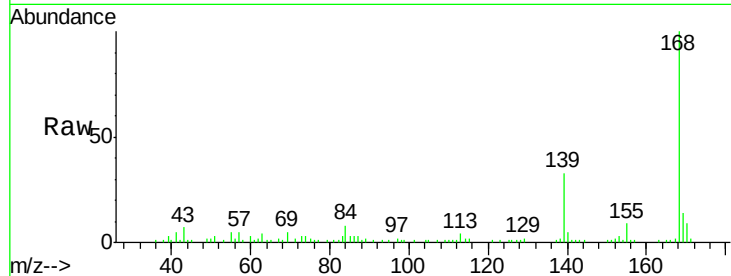




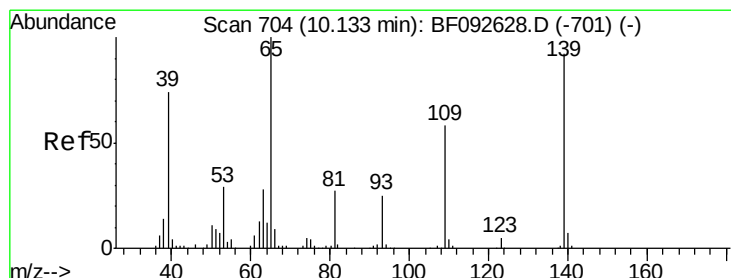
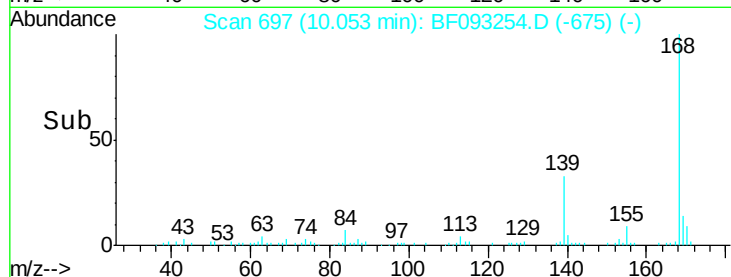
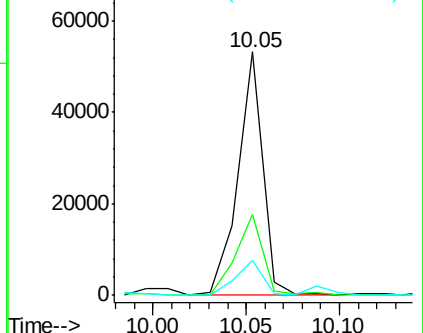
#54  
Dibenzenofuran  
Concen: 3.03 ng  
RT: 10.05 min Scan# 697  
Delta R.T. -0.05 min  
Lab File: BF093254.D  
Acq: 28 Feb 2017 17:51

Instrument :  
BNA\_F  
ClientSampleId :  
TK3-6-20170227

Tgt Ion:168 Resp: 49841  
Ion Ratio Lower Upper  
168 100  
139 33.2 32.6 49.0  
169 14.3 11.3 16.9

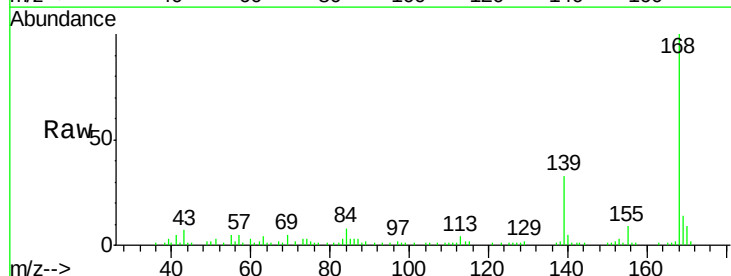


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

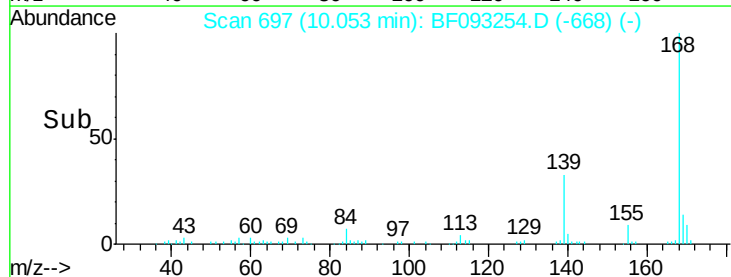
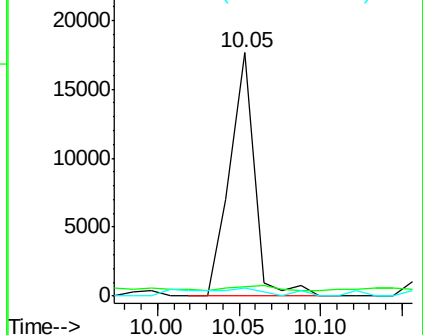


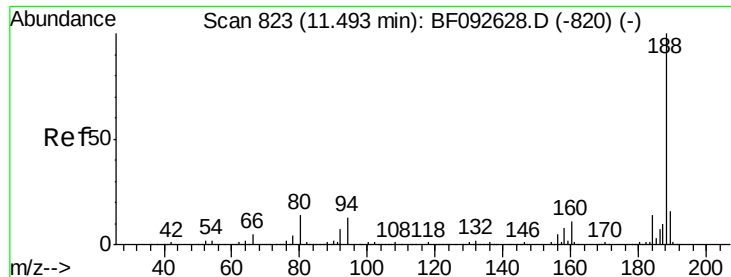
#55  
4-Nitrophenol  
Concen: 7.27 ng  
RT: 10.05 min Scan# 697  
Delta R.T. 0.03 min  
Lab File: BF093254.D  
Acq: 28 Feb 2017 17:51

Tgt Ion:139 Resp: 18304  
Ion Ratio Lower Upper  
139 100  
109 3.8 52.2 92.2#  
65 3.3 85.8 125.8#



Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.33 min Scan# 809

Delta R.T. -0.05 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

Instrument :

BNA\_F

ClientSampleId :

TK3-6-20170227

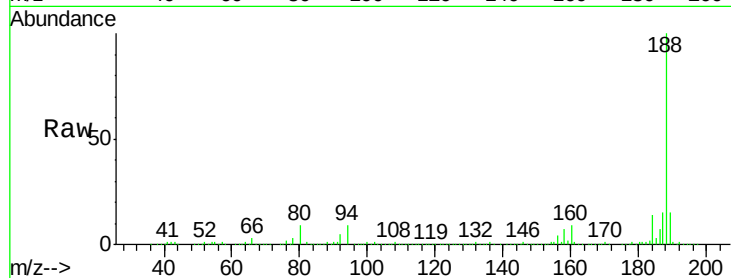
Tgt Ion:188 Resp: 332806

Ion Ratio Lower Upper

188 100

94 9.2 10.0 15.0#

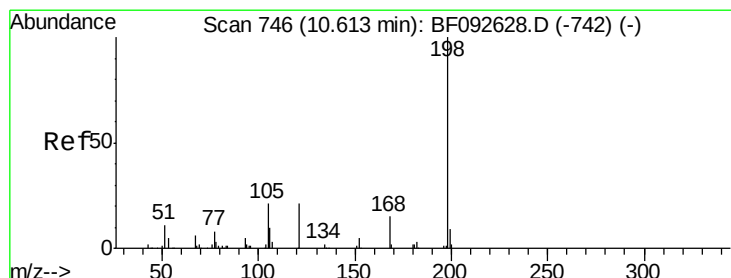
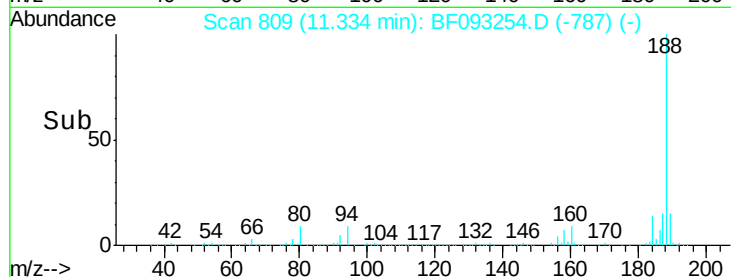
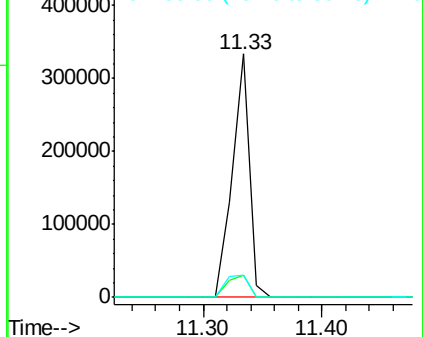
80 9.3 11.2 16.8#



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



#64

4,6-Dinitro-2-methylphenol

Concen: 2.89 ng

RT: 10.64 min Scan# 748

Delta R.T. 0.14 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

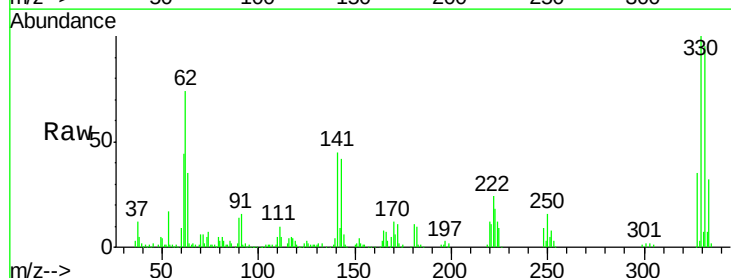
Tgt Ion:198 Resp: 485

Ion Ratio Lower Upper

198 100

51 290.5 6.7 46.7#

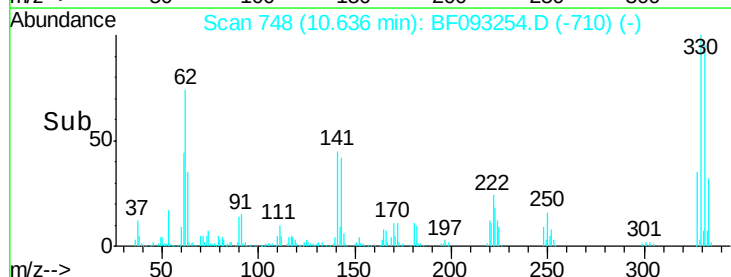
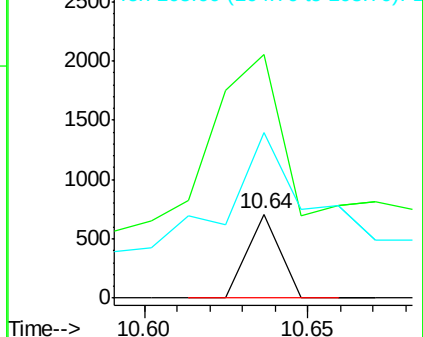
105 197.6 16.6 56.6#

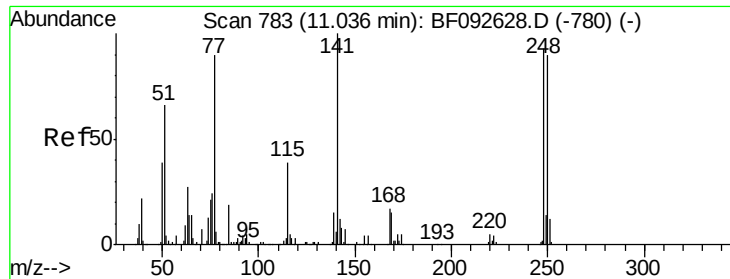


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

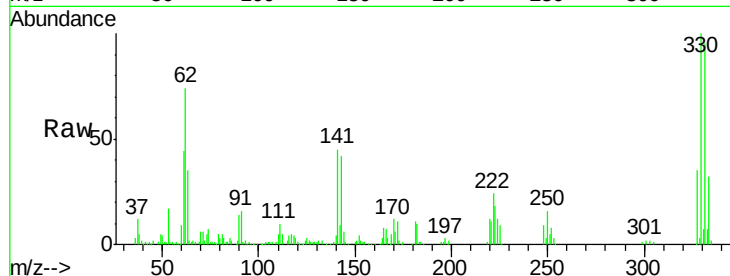




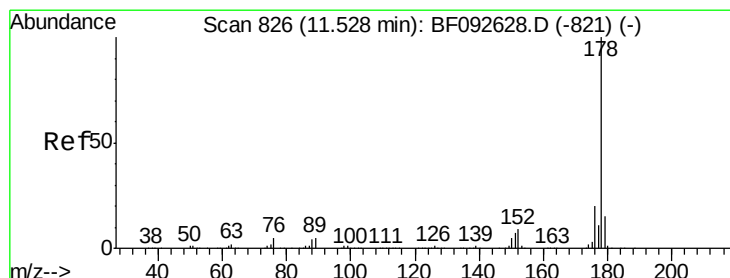
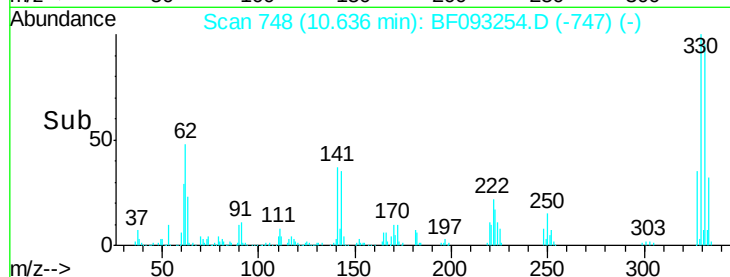
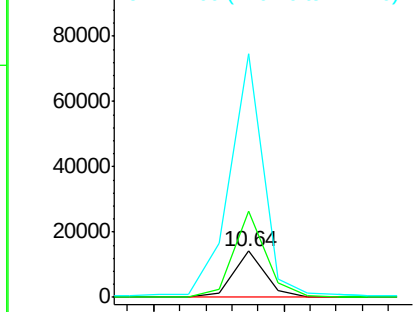
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.46 ng  
 RT: 10.64 min Scan# 748  
 Delta R.T. -0.29 min  
 Lab File: BF093254.D  
 Acq: 28 Feb 2017 17:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TK3-6-20170227

Tgt Ion:248 Resp: 12043  
 Ion Ratio Lower Upper  
 248 100  
 250 187.0 76.9 115.3#  
 141 526.7 68.2 102.4#

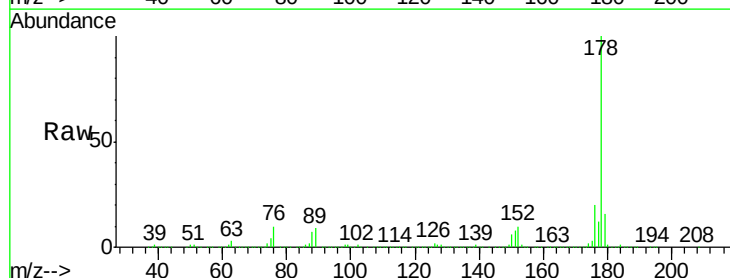


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

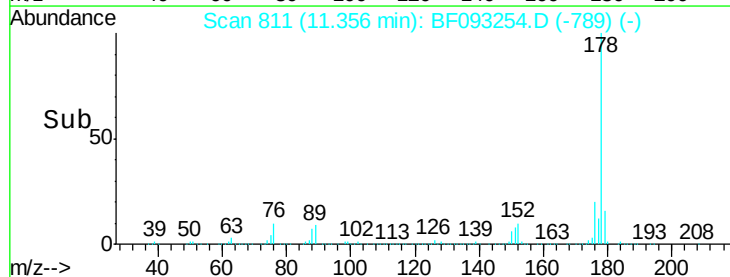
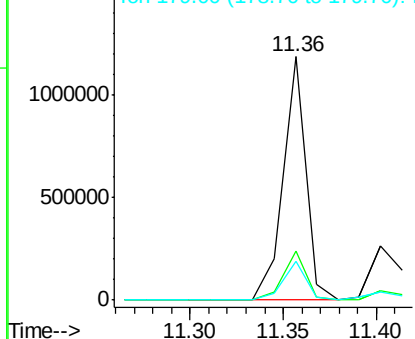


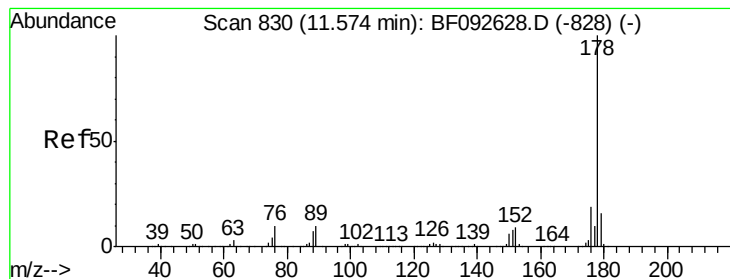
#70  
 Phenanthrene  
 Concen: 53.00 ng  
 RT: 11.36 min Scan# 811  
 Delta R.T. -0.05 min  
 Lab File: BF093254.D  
 Acq: 28 Feb 2017 17:51

Tgt Ion:178 Resp: 1010525  
 Ion Ratio Lower Upper  
 178 100  
 176 20.0 16.6 25.0  
 179 15.7 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





#71

Anthracene

Concen: 15.52 ng

RT: 11.40 min Scan# 815

Delta R.T. -0.06 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

Instrument :

BNA\_F

ClientSampleId :

TK3-6-20170227

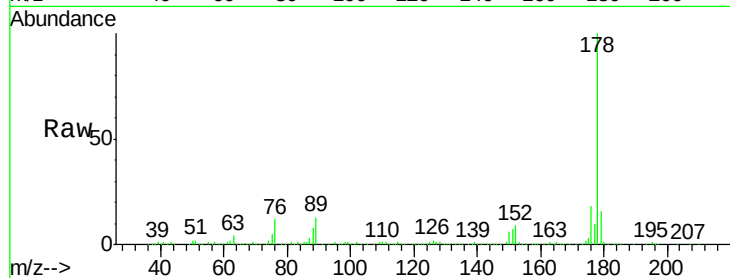
Tgt Ion:178 Resp: 297143

Ion Ratio Lower Upper

178 100

176 18.3 15.9 23.9

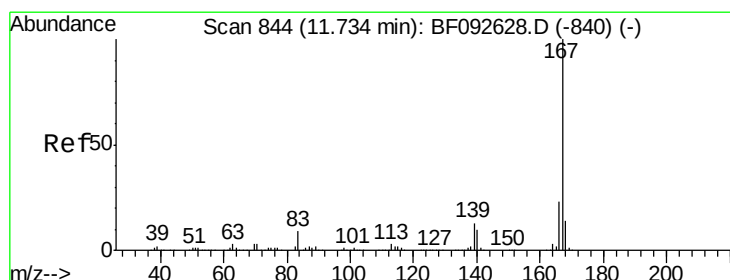
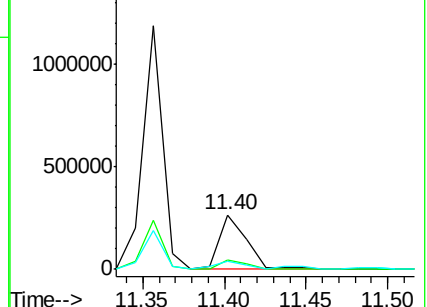
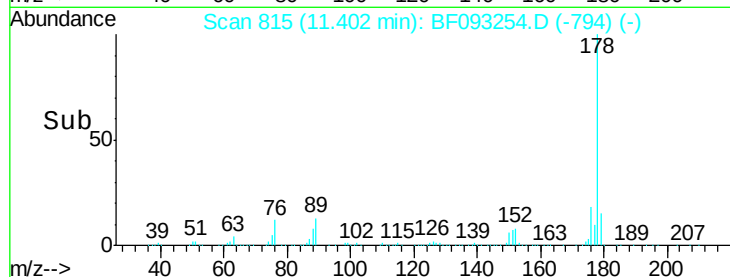
179 15.7 13.2 19.8



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



#72

Carbazole

Concen: 7.05 ng

RT: 11.56 min Scan# 829

Delta R.T. -0.05 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

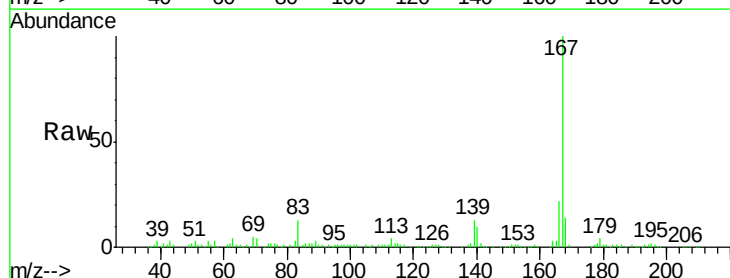
Tgt Ion:167 Resp: 129083

Ion Ratio Lower Upper

167 100

166 21.5 18.2 27.2

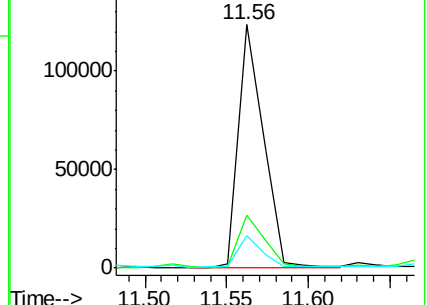
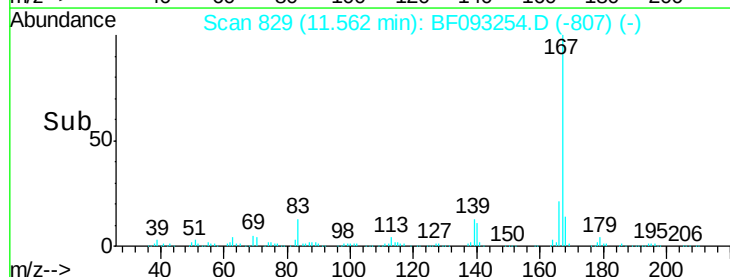
139 13.5 11.4 17.2

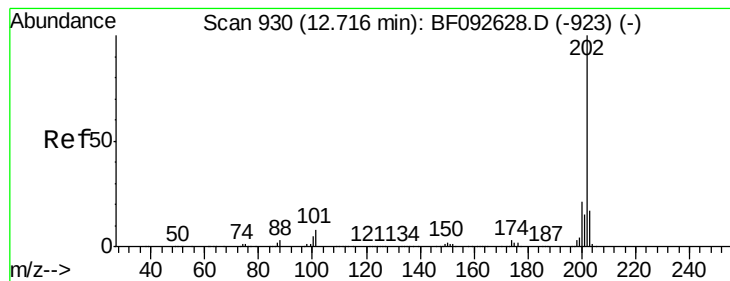


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 81.74 ng

RT: 12.55 min Scan# 915

Delta R.T. -0.05 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

Instrument :

BNA\_F

ClientSampleId :

TK3-6-20170227

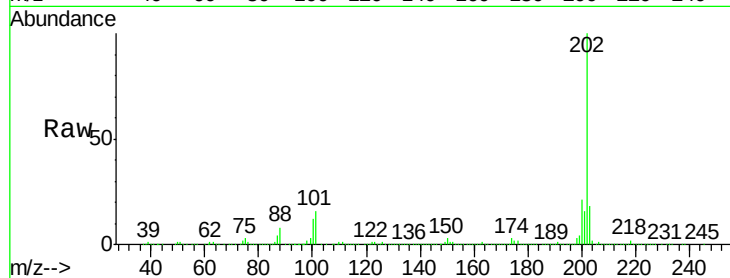
Tgt Ion:202 Resp: 1607669

Ion Ratio Lower Upper

202 100

101 15.7 0.0 34.6

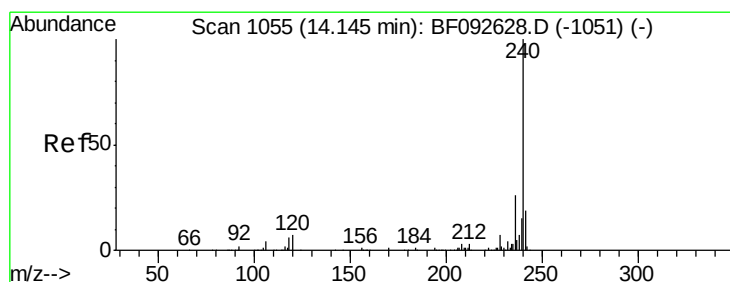
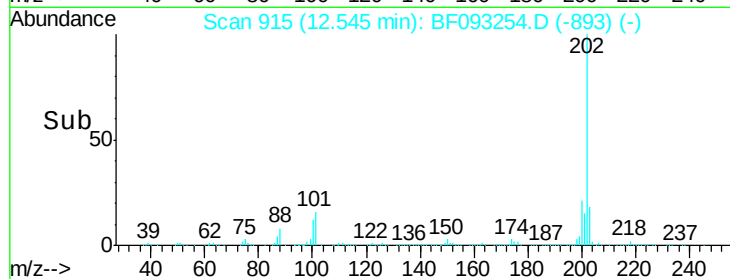
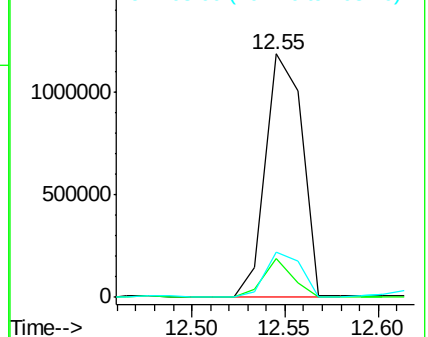
203 18.4 0.0 38.7



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: 13.97 min Scan# 1040

Delta R.T. -0.05 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

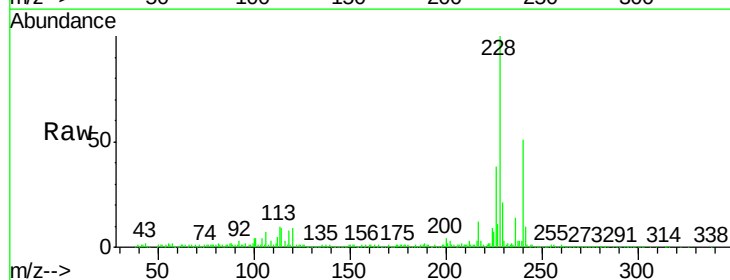
Tgt Ion:240 Resp: 290700

Ion Ratio Lower Upper

240 100

120 18.0 12.9 19.3

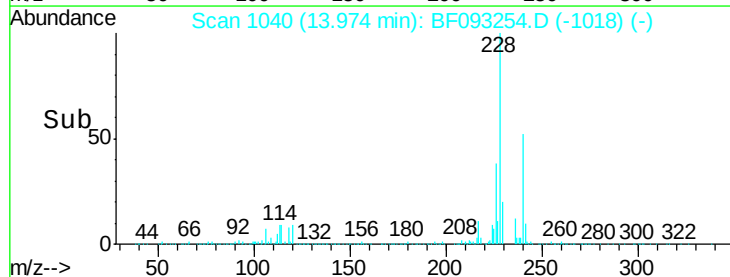
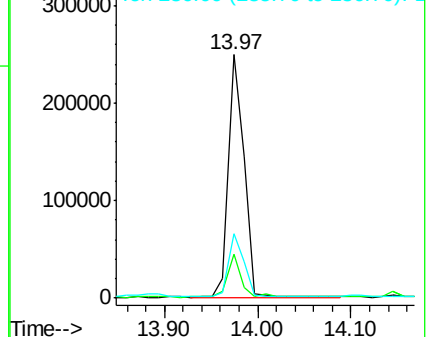
236 26.5 20.9 31.3

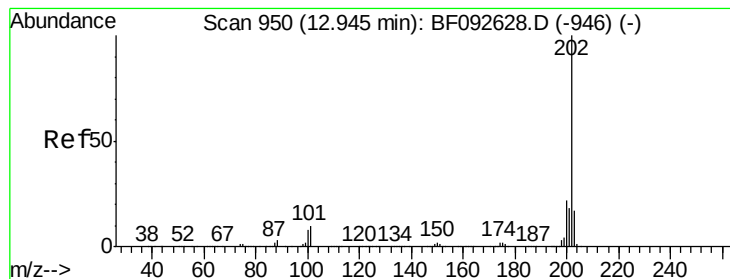


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 73.76 ng

RT: 12.79 min Scan# 936

Delta R.T. -0.03 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

Instrument :

BNA\_F

ClientSampleId :

TK3-6-20170227

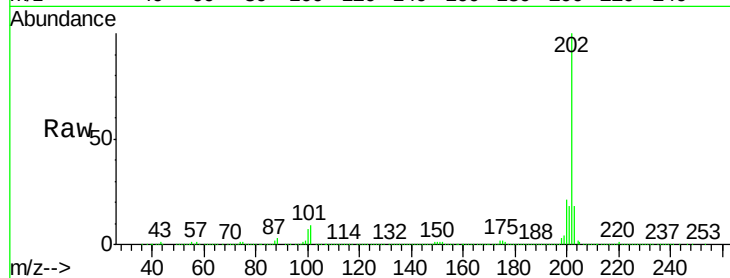
Tgt Ion:202 Resp: 1604570

Ion Ratio Lower Upper

202 100

200 21.4 17.7 26.5

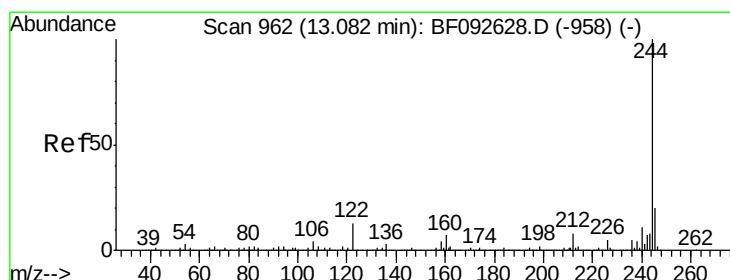
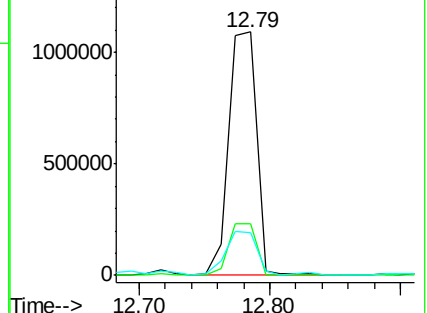
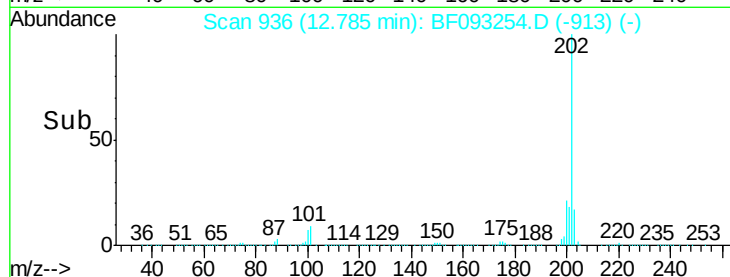
203 17.5 14.7 22.1



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: 57.74 ng

RT: 12.92 min Scan# 948

Delta R.T. -0.05 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

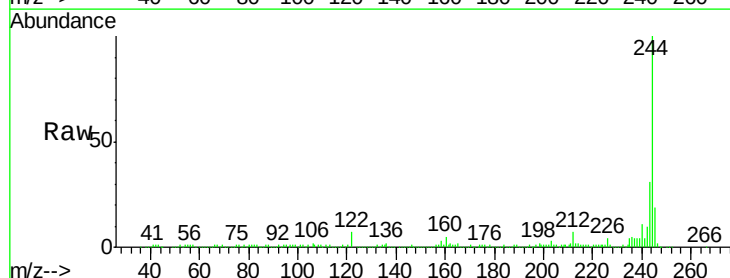
Tgt Ion:244 Resp: 714393

Ion Ratio Lower Upper

244 100

212 6.6 6.2 9.2

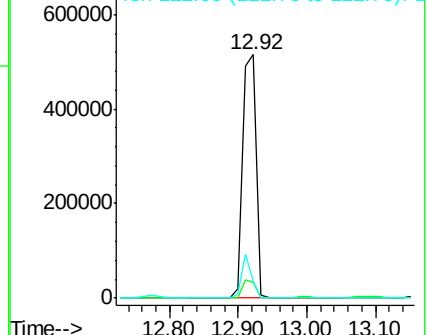
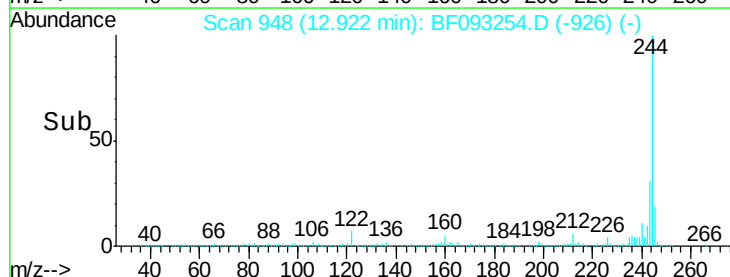
122 7.3 11.4 17.2#



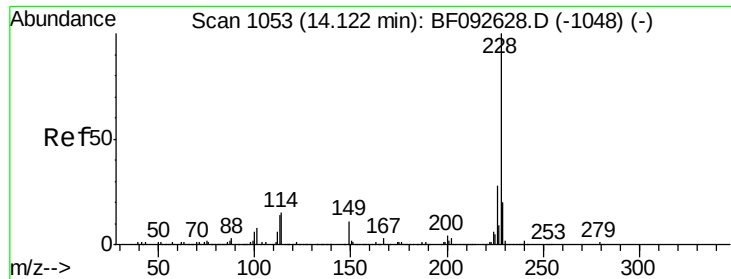
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E







#80

Benzo(a)anthracene

Concen: 53.50 ng

RT: 13.96 min Scan# 1039

Delta R.T. -0.05 min

Lab File: BF093254.D

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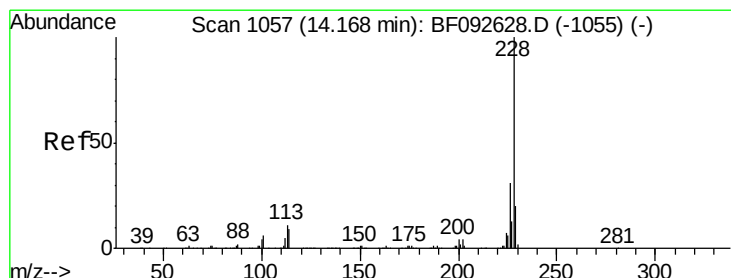
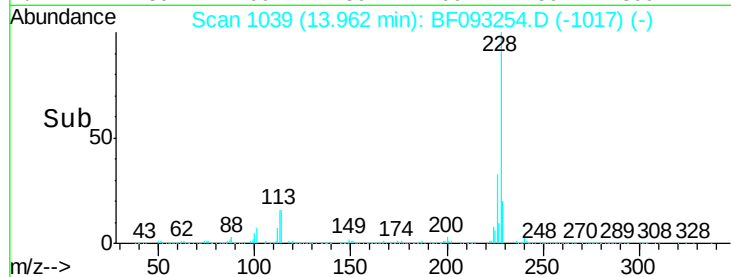
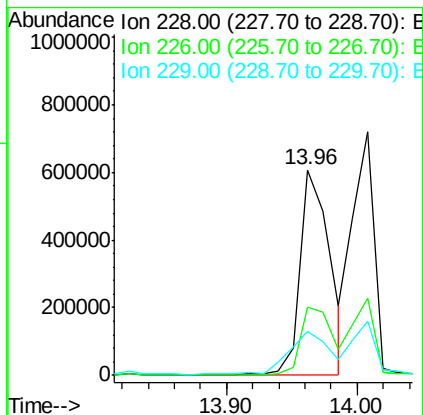
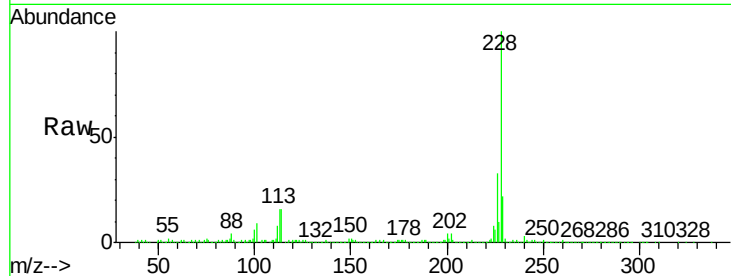
Instrument :

BNA\_F

ClientSampleId :

TK3-6-20170227

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 228   | Resp: | 951293 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 226      | 33.2  | 22.4  | 33.6   |
| 229      | 21.6  | 16.2  | 24.4   |



#82

Chrysene

Concen: 49.33 ng

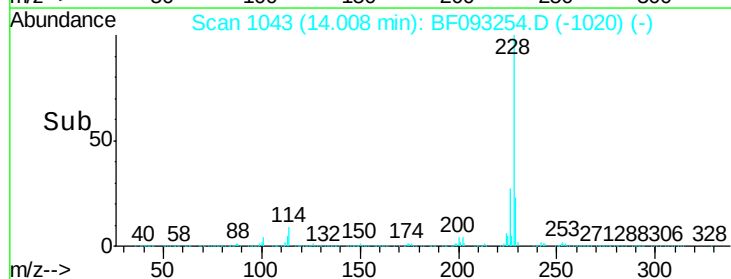
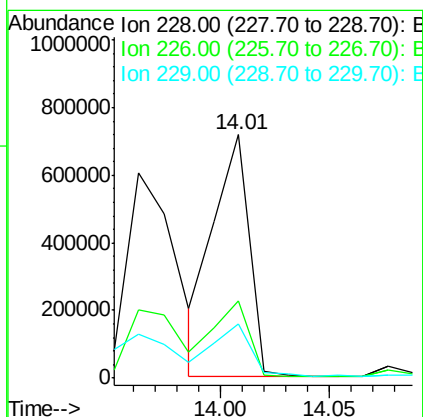
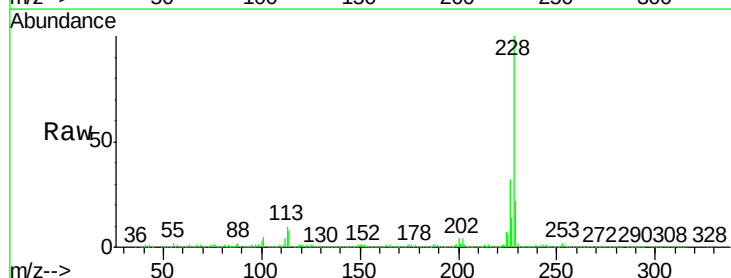
RT: 14.01 min Scan# 1043

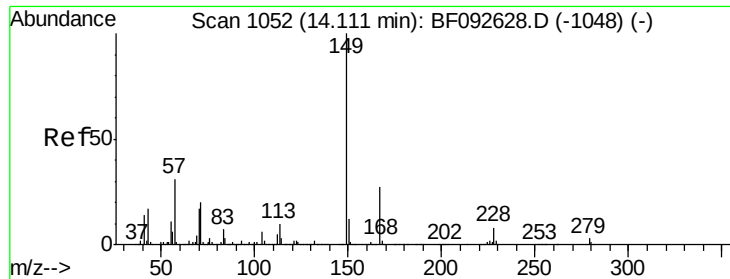
Delta R.T. -0.03 min

Lab File: BF093254.D

Acq: 28 Feb 2017 17:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 228   | Resp: | 821169 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 226      | 31.8  | 25.4  | 38.0   |
| 229      | 22.4  | 16.2  | 24.2   |

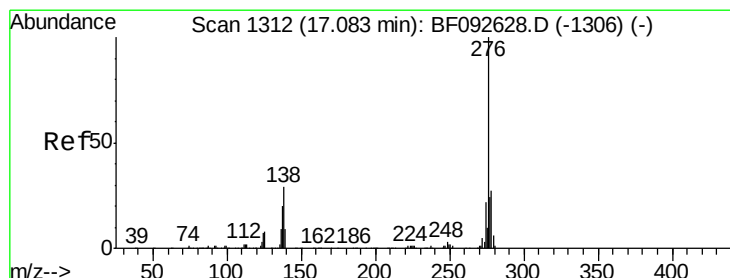
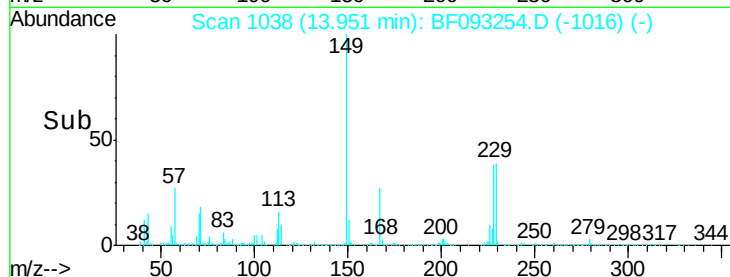
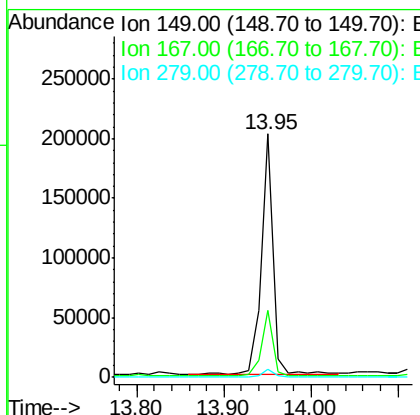
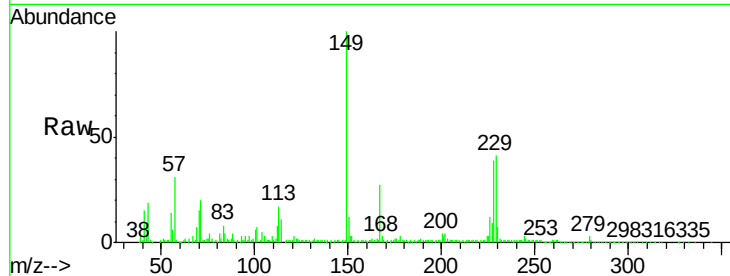




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 15.88 ng  
 RT: 13.95 min Scan# 1038  
 Delta R.T. -0.05 min  
 Lab File: BF093254.D  
 Acq: 28 Feb 2017 17:51

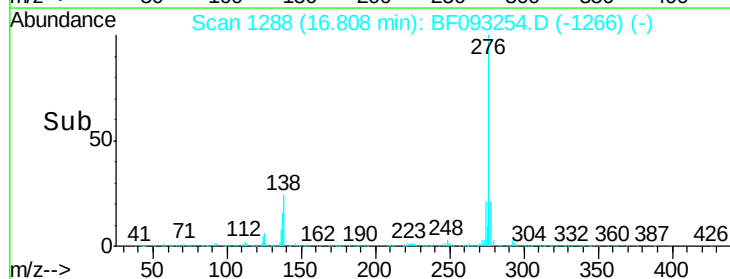
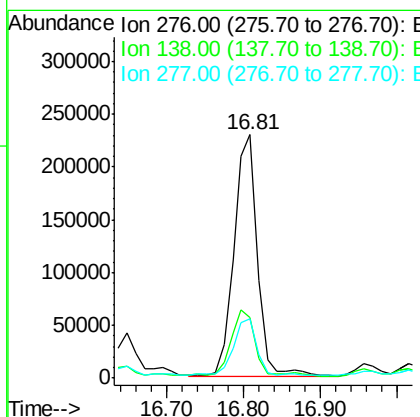
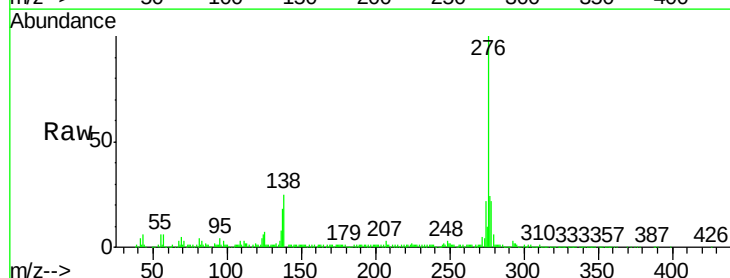
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TK3-6-20170227

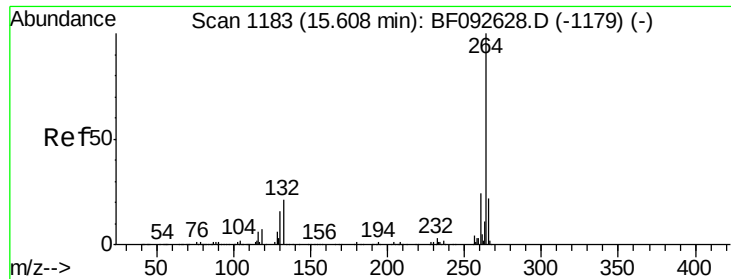
Tgt Ion:149 Resp: 191836  
 Ion Ratio Lower Upper  
 149 100  
 167 27.4 20.2 30.4  
 279 3.3 1.8 2.8#



#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 37.63 ng  
 RT: 16.81 min Scan# 1288  
 Delta R.T. -0.05 min  
 Lab File: BF093254.D  
 Acq: 28 Feb 2017 17:51

Tgt Ion:276 Resp: 485266  
 Ion Ratio Lower Upper  
 276 100  
 138 27.3 21.8 32.6  
 277 24.1 20.2 30.4

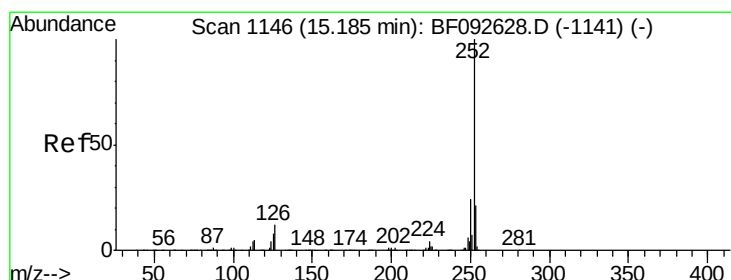
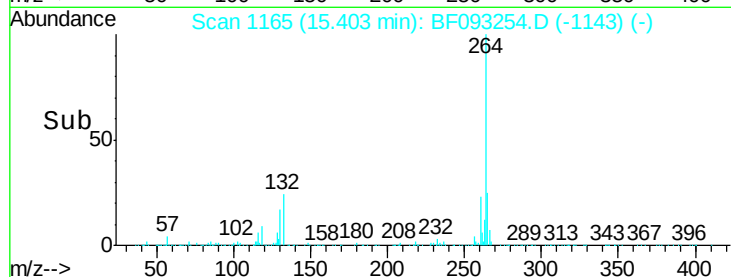
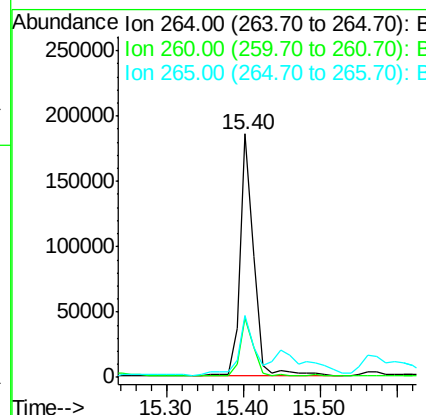
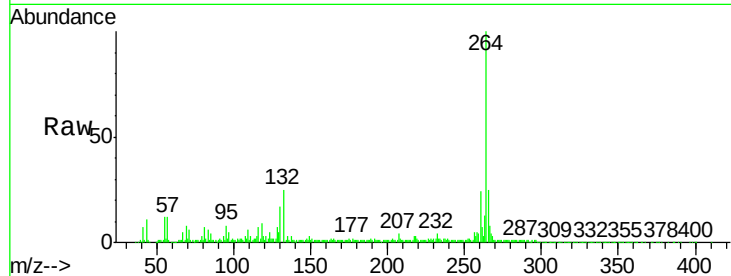




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.40 min Scan# 1165  
Delta R.T. -0.05 min  
Lab File: BF093254.D  
Acq: 28 Feb 2017 17:51

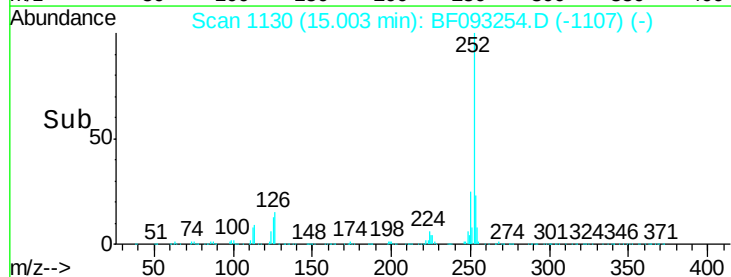
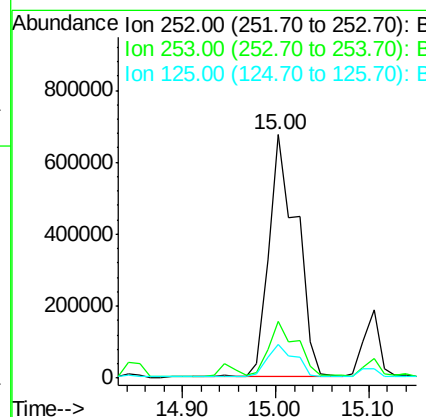
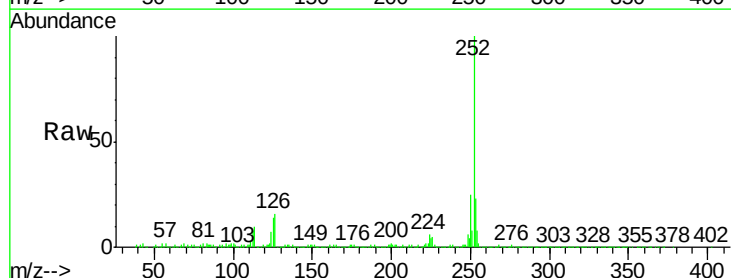
Instrument :  
BNA\_F  
ClientSampleId :  
TK3-6-20170227

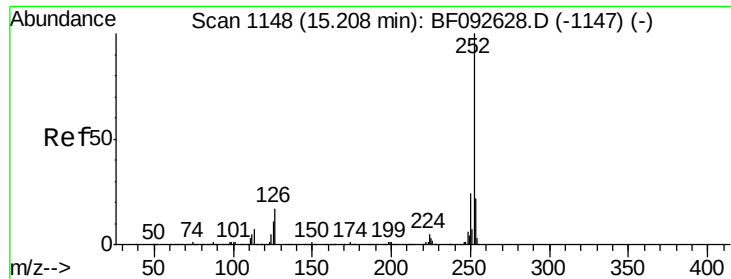
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 235777 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.3  | 19.2  | 28.8   |
| 265      | 25.5  | 17.4  | 26.0   |



#87  
Benzo(b)fluoranthene  
Concen: 90.46 ng  
RT: 15.00 min Scan# 1130  
Delta R.T. -0.03 min  
Lab File: BF093254.D  
Acq: 28 Feb 2017 17:51

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 252   | Resp: | 1403825 |
| Ion      | Ratio | Lower | Upper   |
| 252      | 100   |       |         |
| 253      | 23.2  | 18.2  | 27.4    |
| 125      | 13.6  | 9.8   | 14.6    |

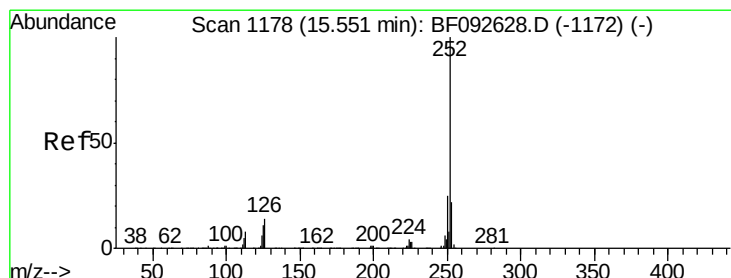
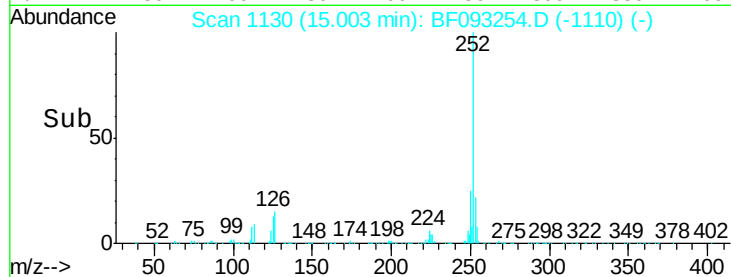
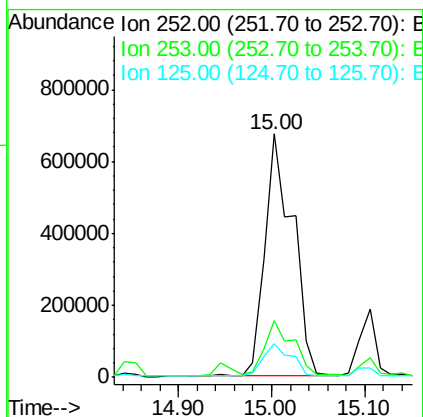
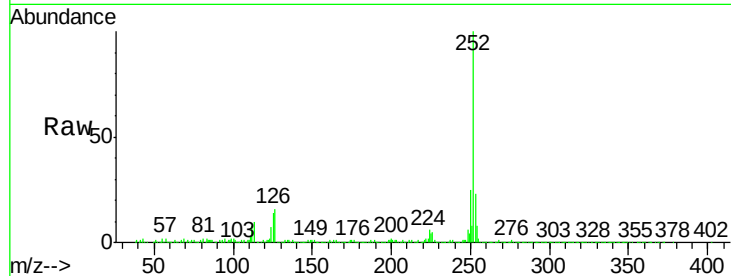




#88  
Benzo(k)fluoranthene  
Concen: 104.77 ng  
RT: 15.00 min Scan# 1130  
Delta R.T. -0.07 min  
Lab File: BF093254.D  
Acq: 28 Feb 2017 17:51

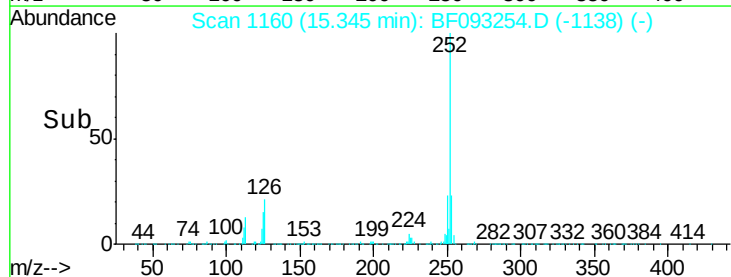
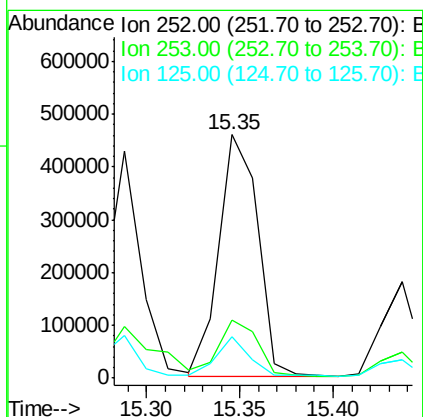
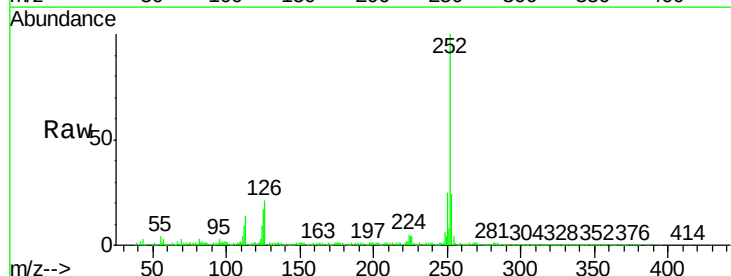
Instrument :  
BNA\_F  
ClientSampleId :  
TK3-6-20170227

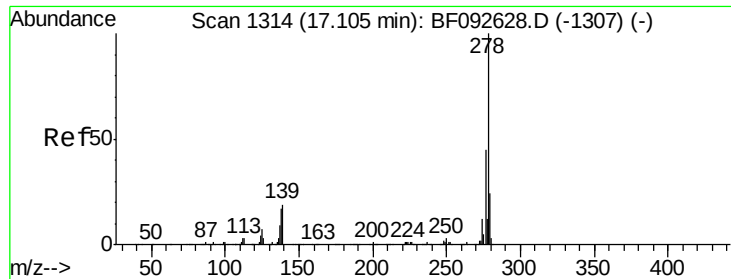
Tgt Ion:252 Resp: 1403825  
Ion Ratio Lower Upper  
252 100  
253 23.2 18.5 27.7  
125 13.6 8.9 13.3#



#89  
Benzo(a)pyrene  
Concen: 49.70 ng  
RT: 15.35 min Scan# 1160  
Delta R.T. -0.05 min  
Lab File: BF093254.D  
Acq: 28 Feb 2017 17:51

Tgt Ion:252 Resp: 667212  
Ion Ratio Lower Upper  
252 100  
253 23.9 18.2 27.2  
125 16.9 10.0 15.0#



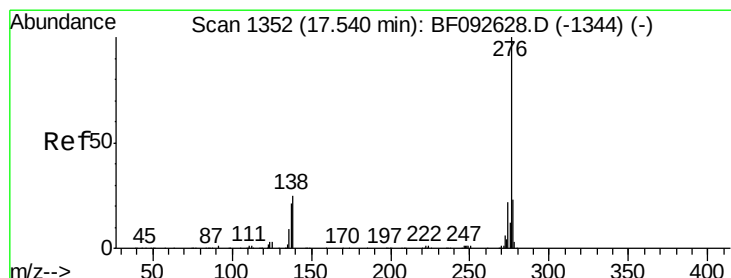
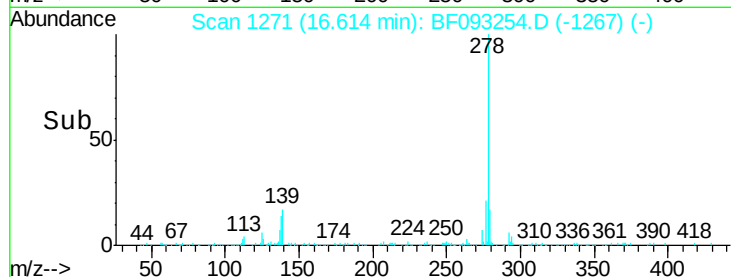
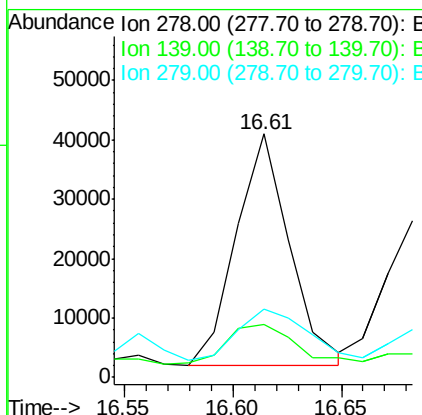
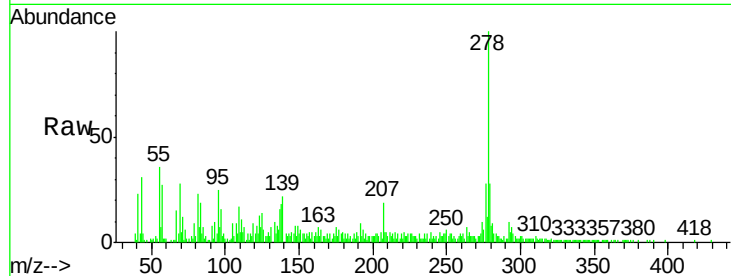


#90  
Dibenzo(a,h)anthracene  
Concen: 6.15 ng  
RT: 16.61 min Scan# 1271  
Delta R.T. -0.25 min  
Lab File: BF093254.D  
Acq: 28 Feb 2017 17:51

Instrument :  
BNA\_F  
ClientSampleId :  
TK3-6-20170227

Tgt Ion: 278 Resp: 66681  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 21.6  | 14.8  | 22.2  |
| 279 | 27.8  | 19.8  | 29.6  |



#91  
Benzo(g,h,i)perylene  
Concen: 42.30 ng  
RT: 17.23 min Scan# 1325  
Delta R.T. -0.06 min  
Lab File: BF093254.D  
Acq: 28 Feb 2017 17:51

Tgt Ion: 276 Resp: 463644  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 24.3  | 19.2  | 28.8  |
| 138 | 26.3  | 16.0  | 24.0  |

