

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\  
 Data File : BF097218.D  
 Acq On : 31 Jul 2017 20:01  
 Operator : SJ/JU  
 Sample : I4456-12  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-17-SS-8

Quant Time: Aug 01 00:58:09 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.48  | 152  | 115895   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 7.76  | 136  | 462132   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.51  | 164  | 215686   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 10.99 | 188  | 307182   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.63 | 240  | 155194   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 14.99 | 264  | 159974   | 20.00 | ng    | 0.01     |

|                             |       |     |        |        |    |       |
|-----------------------------|-------|-----|--------|--------|----|-------|
| System Monitoring Compounds |       |     |        |        |    |       |
| 5) 2-Fluorophenol           | 5.10  | 112 | 765970 | 99.63  | ng | 0.00  |
| 7) Phenol-d6                | 6.17  | 99  | 915097 | 104.26 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.05  | 82  | 559691 | 71.05  | ng | -0.02 |
| 41) 2,4,6-Tribromophenol    | 10.30 | 330 | 140261 | 82.31  | ng | -0.02 |
| 44) 2-Fluorobiphenyl        | 8.85  | 172 | 853925 | 67.19  | ng | -0.02 |
| 78) Terphenyl-d14           | 12.57 | 244 | 416245 | 54.68  | ng | -0.01 |

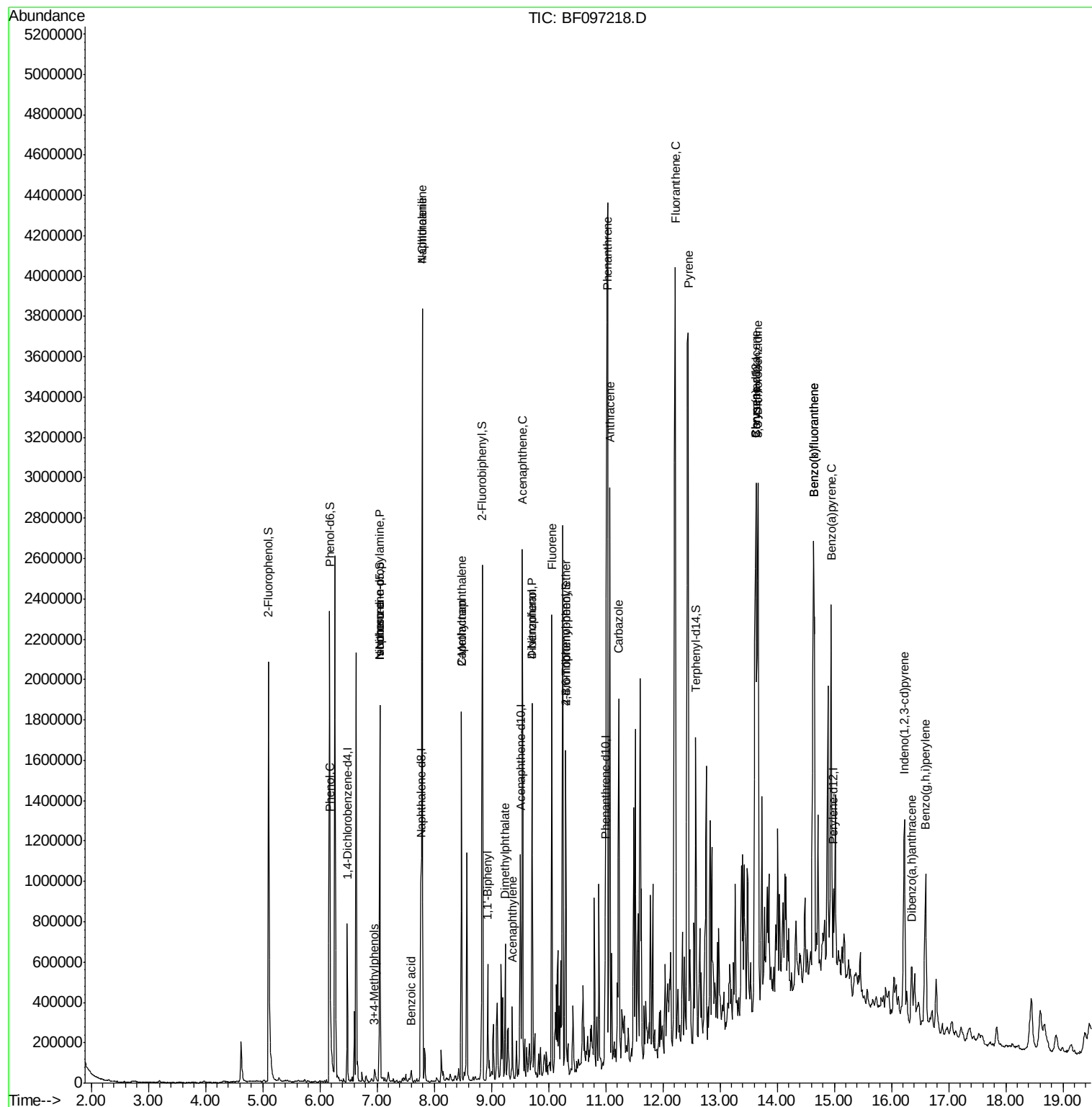
|                                |       |     |         |        |    |        |
|--------------------------------|-------|-----|---------|--------|----|--------|
| Target Compounds               |       |     |         |        |    | Qvalue |
| 10) Phenol                     | 6.18  | 94  | 47309   | 4.54   | ng | 84     |
| 19) n-Nitroso-di-n-propylamine | 7.05  | 70  | 75764   | 13.11  | ng | # 89   |
| 20) 3+4-Methylphenols          | 6.96  | 107 | 22775   | 2.75   | ng | # 64   |
| 25) Isophorone                 | 7.05  | 82  | 553721  | 35.89  | ng | # 67   |
| 31) Naphthalene                | 7.79  | 128 | 1892694 | 86.88  | ng | 100    |
| 32) Benzoic acid               | 7.60  | 122 | 13712   | 2.51   | ng | # 22   |
| 33) 4-Chloroaniline            | 7.79  | 127 | 255739  | 28.85  | ng | # 34   |
| 35) Caprolactam                | 8.47  | 113 | 10360   | 5.12   | ng | # 1    |
| 37) 2-Methylnaphthalene        | 8.47  | 142 | 484570  | 35.13  | ng | 99     |
| 45) 1,1'-Biphenyl              | 8.94  | 154 | 147913  | 8.03   | ng | 97     |
| 48) Acenaphthylene             | 9.37  | 152 | 86840   | 4.17   | ng | 97     |
| 49) Dimethylphthalate          | 9.25  | 163 | 259934  | 15.87  | ng | 99     |
| 51) Acenaphthene               | 9.55  | 154 | 575202  | 46.93  | ng | 98     |
| 54) Dibenzofuran               | 9.72  | 168 | 671138  | 41.11  | ng | 99     |
| 55) 4-Nitrophenol              | 9.72  | 139 | 256696  | 100.11 | ng | # 27   |
| 57) Fluorene                   | 10.06 | 166 | 658651  | 53.68  | ng | 99     |
| 66) 4-Bromophenyl-phenylether  | 10.30 | 248 | 9532    | 3.11   | ng | # 1    |
| 70) Phenanthrene               | 11.03 | 178 | 3092494 | 187.89 | ng | 99     |
| 71) Anthracene                 | 11.07 | 178 | 1096079 | 65.02  | ng | 99     |
| 72) Carbazole                  | 11.23 | 167 | 752371  | 45.38  | ng | 99     |
| 74) Fluoranthene               | 12.22 | 202 | 2867515 | 177.84 | ng | 99     |
| 77) Pyrene                     | 12.44 | 202 | 2418907 | 190.39 | ng | 98     |
| 80) Benzo(a)anthracene         | 13.63 | 228 | 1575173 | 156.86 | ng | 98     |
| 81) 3,3'-Dichlorobenzidine     | 13.66 | 252 | 8490    | 2.24   | ng | # 1    |
| 82) Chrysene                   | 13.63 | 228 | 1575173 | 160.64 | ng | 97     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.23 | 276 | 614169  | 73.05  | ng | 97     |
| 87) Benzo(b)fluoranthene       | 14.64 | 252 | 2131467 | 221.65 | ng | 97     |
| 88) Benzo(k)fluoranthene       | 14.64 | 252 | 2131467 | 232.60 | ng | 98     |
| 89) Benzo(a)pyrene             | 14.94 | 252 | 1107739 | 125.86 | ng | 95     |
| 90) Dibenzo(a,h)anthracene     | 16.36 | 278 | 159681  | 22.12  | ng | 99     |
| 91) Benzo(g,h,i)perylene       | 16.60 | 276 | 562222  | 74.28  | ng | 97     |

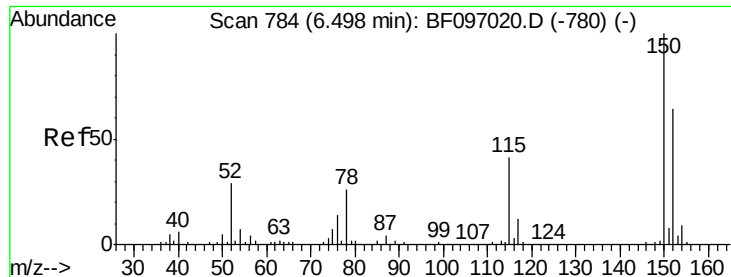
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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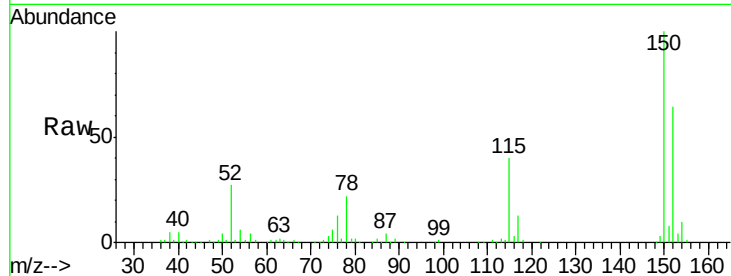


#1

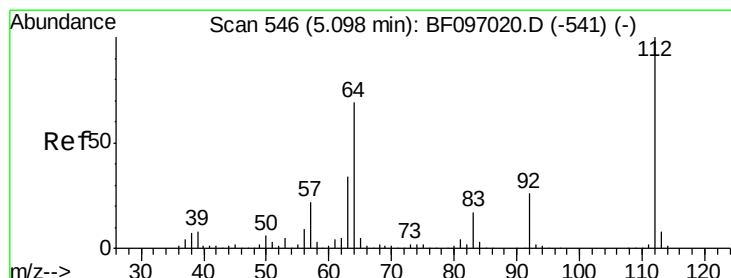
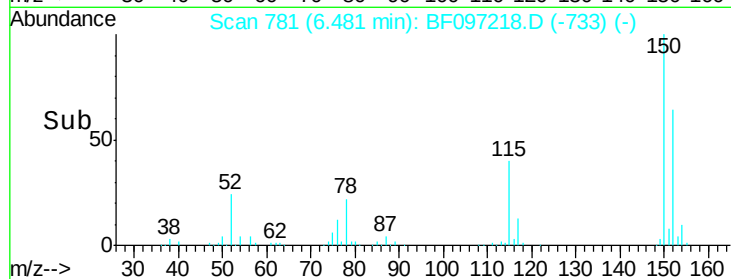
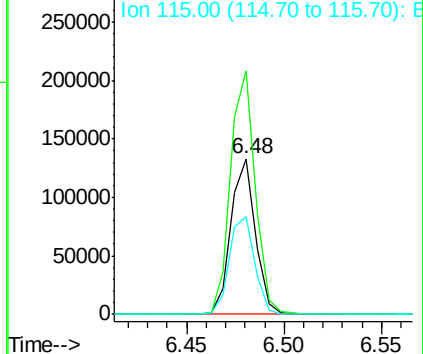
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.48 min Scan# 781  
Delta R.T. -0.02 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

Instrument :  
BNA\_F  
ClientSampleId :  
TP-17-SS-8

Tot Ion:152 Resp: 115895  
Ion Ratio Lower Upper  
152 100  
150 156.5 126.2 189.2  
115 62.6 52.2 78.2



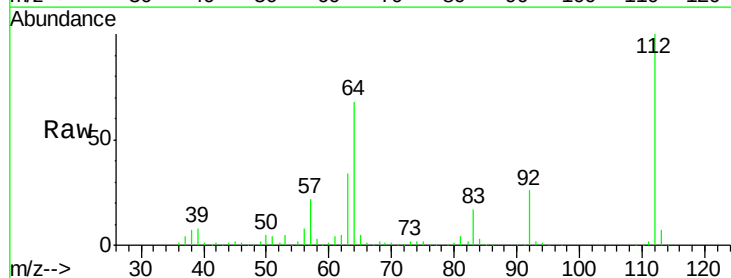
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



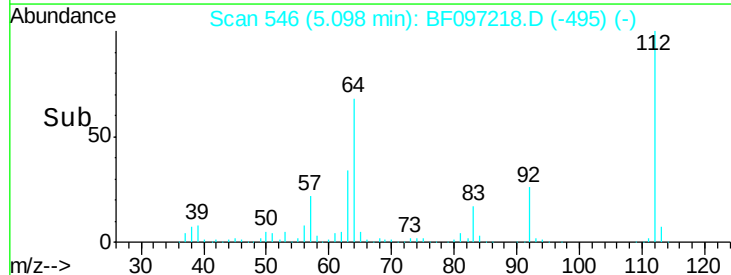
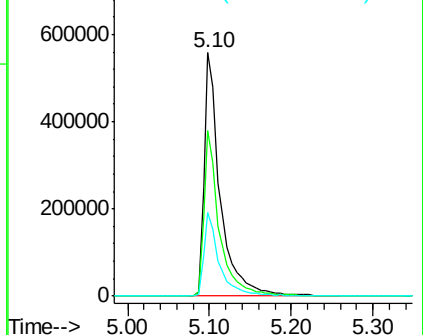
#5

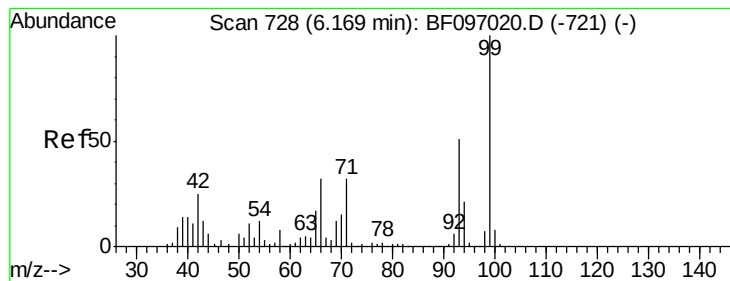
2-Fluorophenol  
Concen: 99.63 ng  
RT: 5.10 min Scan# 546  
Delta R.T. 0.00 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

Tgt Ion:112 Resp: 765970  
Ion Ratio Lower Upper  
112 100  
64 68.0 46.0 69.0  
63 34.4 23.4 35.0



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: 104.26 ng

RT: 6.17 min Scan# 728

Delta R.T. -0.00 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

Instrument :

BNA\_F

ClientSampled :

TP-17-SS-8

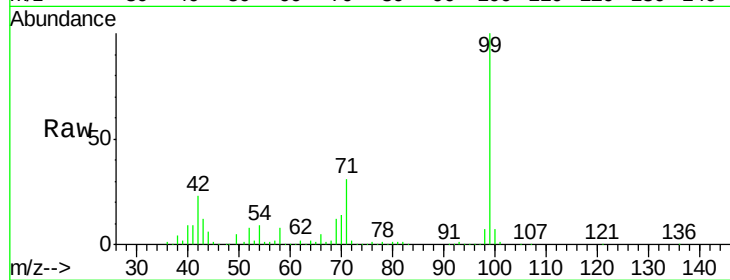
Tot Ion: 99 Resp: 915097

Ion Ratio Lower Upper

99 100

42 23.1 13.5 20.3#

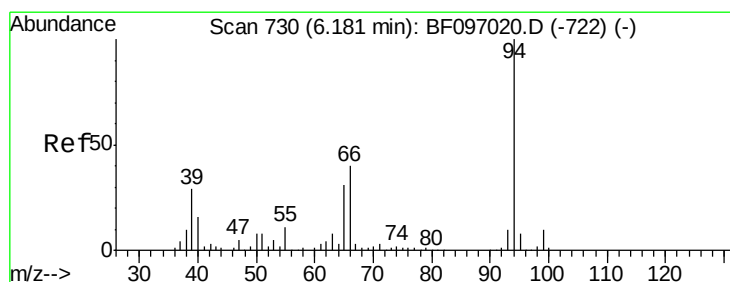
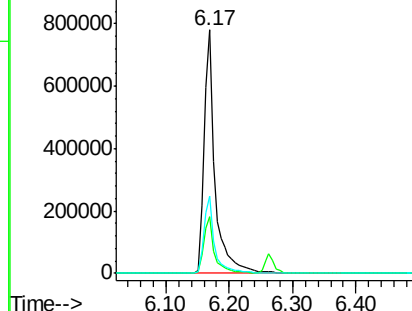
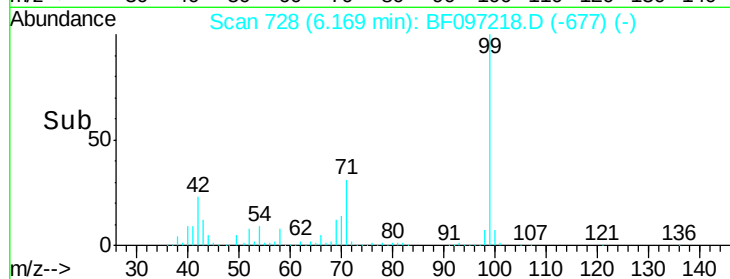
71 31.5 24.5 36.7



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: 4.54 ng

RT: 6.18 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

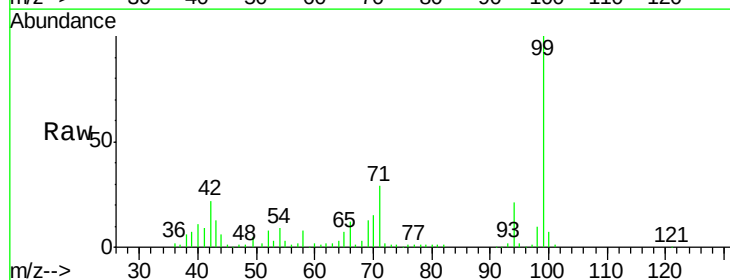
Tgt Ion: 94 Resp: 47309

Ion Ratio Lower Upper

94 100

65 34.5 9.9 49.9

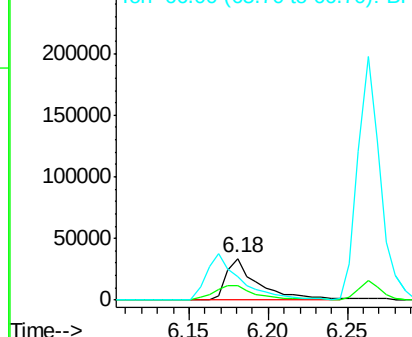
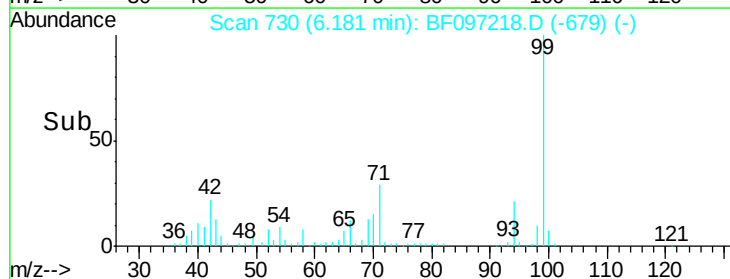
66 56.5 23.1 63.1

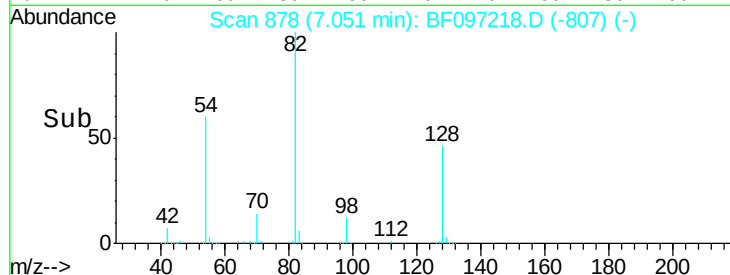
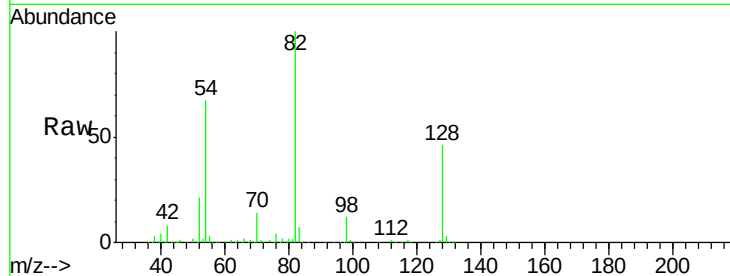
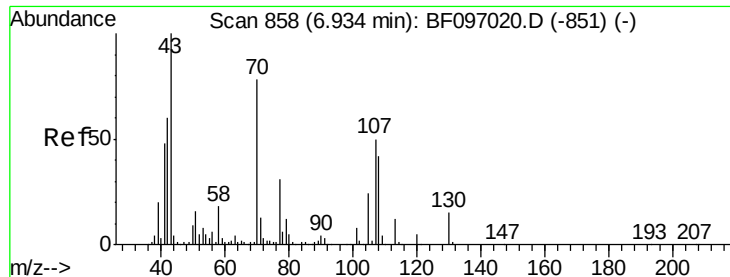


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

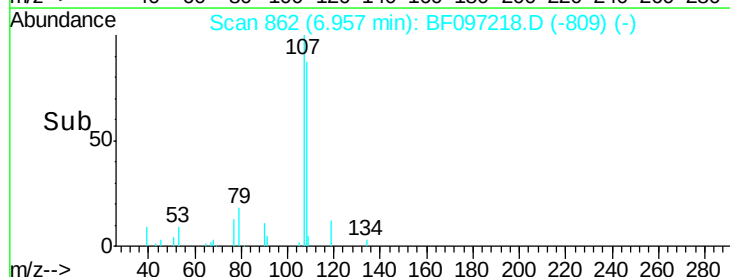
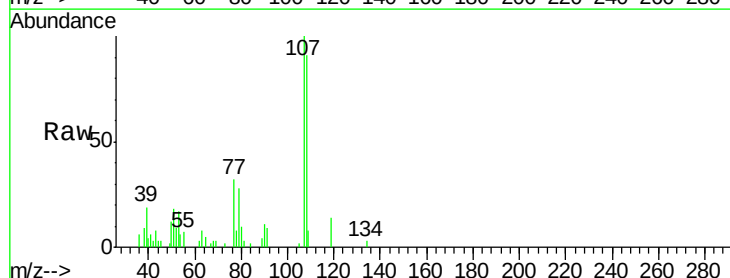
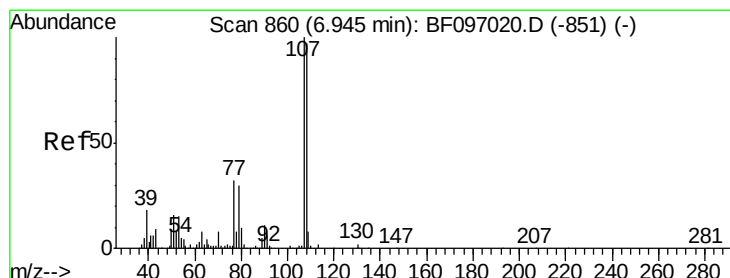
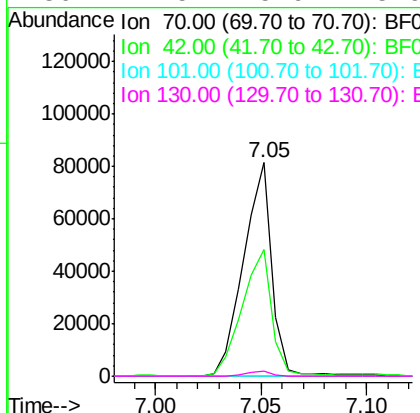




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.11 ng  
RT: 7.05 min Scan# 878  
Delta R.T. 0.12 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

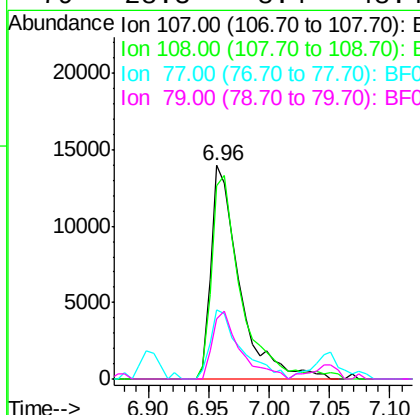
Instrument :  
BNA\_F  
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TP-17-SS-8

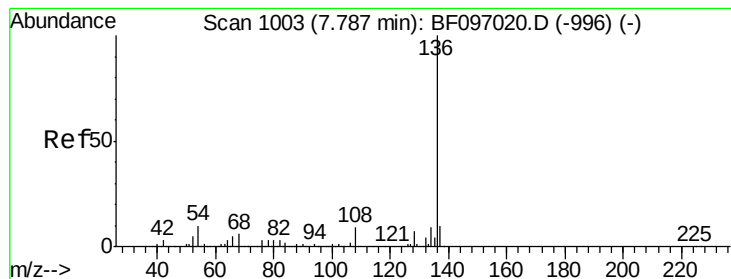
Tot Ion: 70 Resp: 75764  
Ion Ratio Lower Upper  
70 100  
42 59.1 47.2 70.8  
101 0.0 7.2 10.8#  
130 2.5 15.9 23.9#



#20  
3+4-Methylphenols  
Concen: 2.75 ng  
RT: 6.96 min Scan# 862  
Delta R.T. 0.01 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

Tgt Ion:107 Resp: 22775  
Ion Ratio Lower Upper  
107 100  
108 90.6 71.0 111.0  
77 32.1 90.5 130.5#  
79 28.3 8.4 48.4





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.76 min Scan# 999

Delta R.T. -0.02 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

Instrument :

BNA\_F

ClientSampleId :

TP-17-SS-8

Tot Ion:136 Resp: 462132

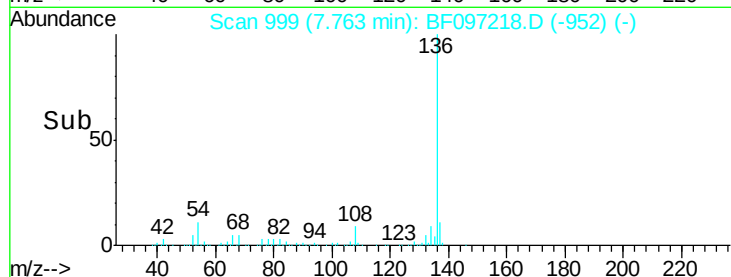
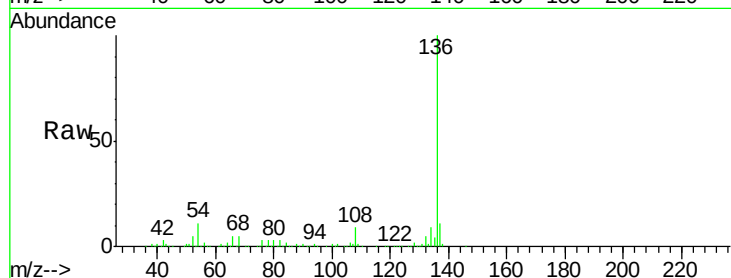
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 10.6 4.9 7.3#

68 5.4 4.1 6.1

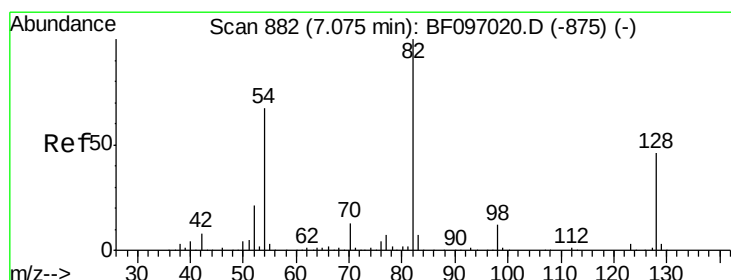
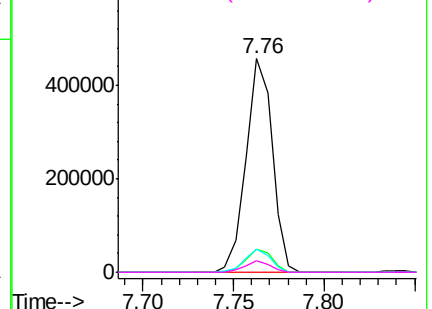


Abundance Ion 136.00 (135.70 to 136.70): E

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: 71.05 ng

RT: 7.05 min Scan# 878

Delta R.T. -0.02 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

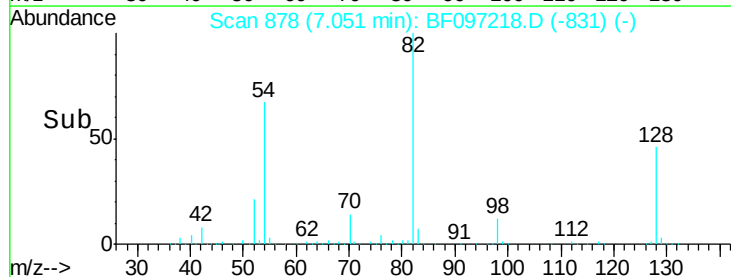
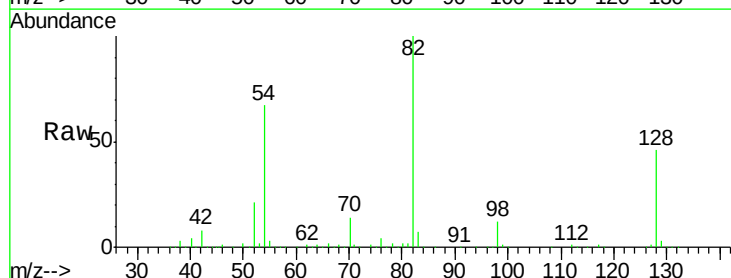
Tgt Ion: 82 Resp: 559691

Ion Ratio Lower Upper

82 100

128 46.2 34.0 51.0

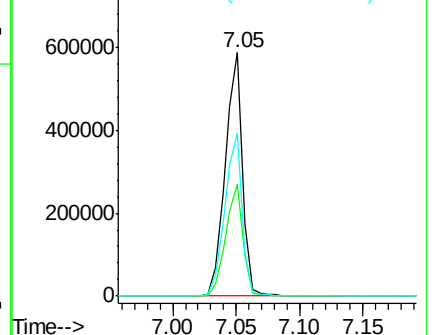
54 66.8 42.2 63.2#

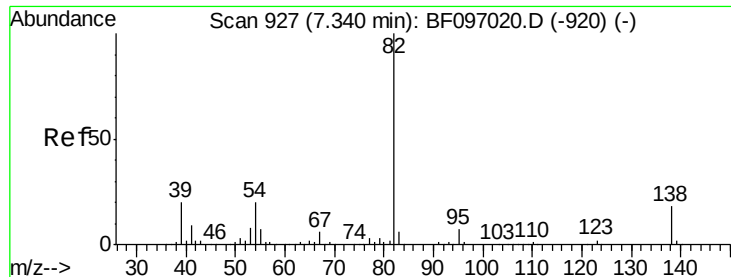


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

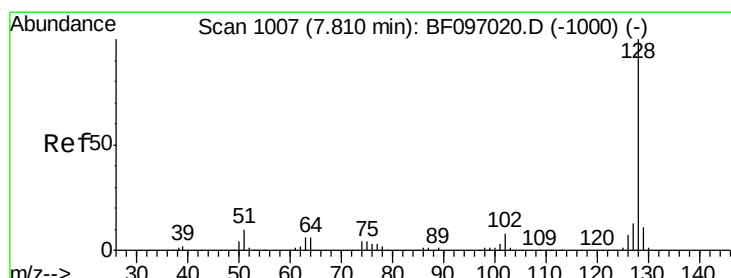
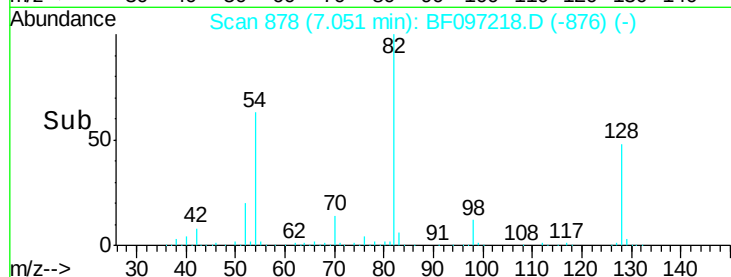
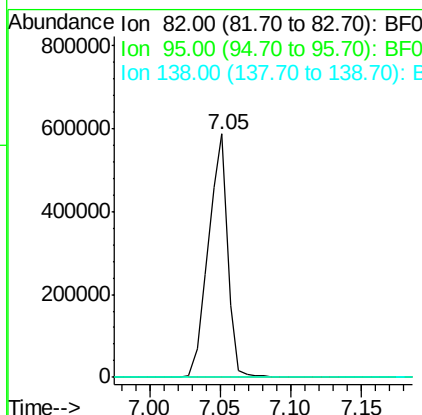
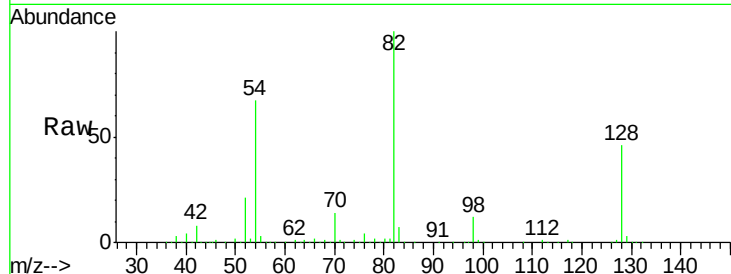




#25  
Isophorone  
Concen: 35.89 ng  
RT: 7.05 min Scan# 878  
Delta R.T. -0.29 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

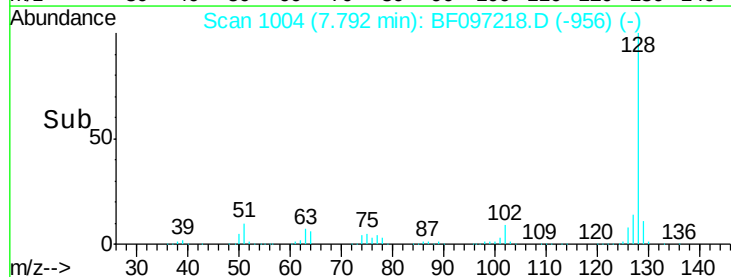
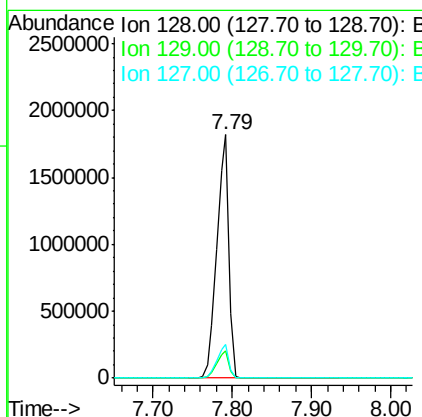
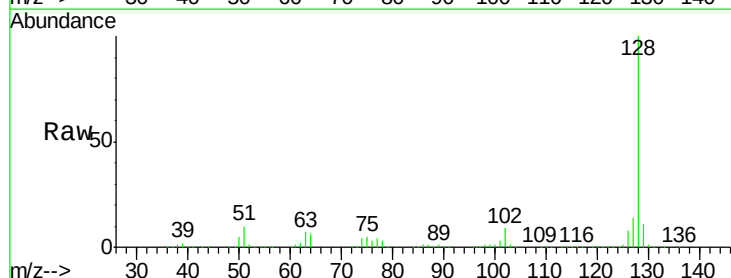
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TP-17-SS-8

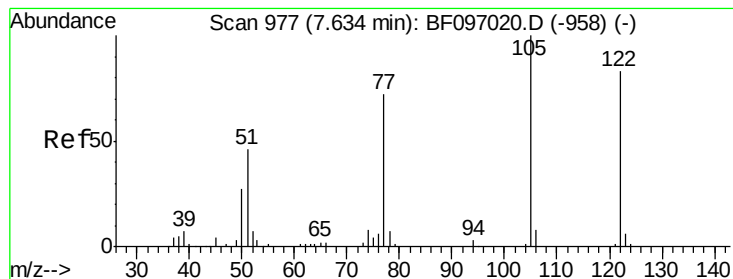
Tot Ion: 82 Resp: 553721  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.3 7.9#  
138 0.0 13.1 19.7#



#31  
Naphthalene  
Concen: 86.88 ng  
RT: 7.79 min Scan# 1004  
Delta R.T. -0.02 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

Tgt Ion: 128 Resp: 1892694  
Ion Ratio Lower Upper  
128 100  
129 11.1 9.0 13.6  
127 13.7 10.8 16.2





#32

Benzoic acid

Concen: 2.51 ng

RT: 7.60 min Scan# 971

Delta R.T. -0.04 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

Instrument :

BNA\_F

ClientSampleId :

TP-17-SS-8

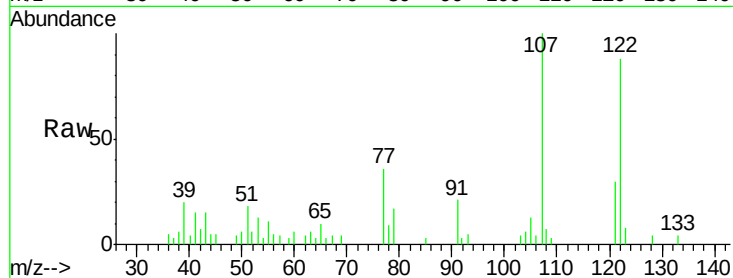
Tot Ion:122 Resp: 13712

Ion Ratio Lower Upper

122 100

105 15.1 103.3 143.3#

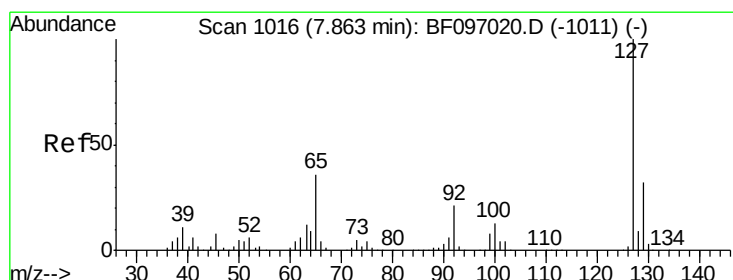
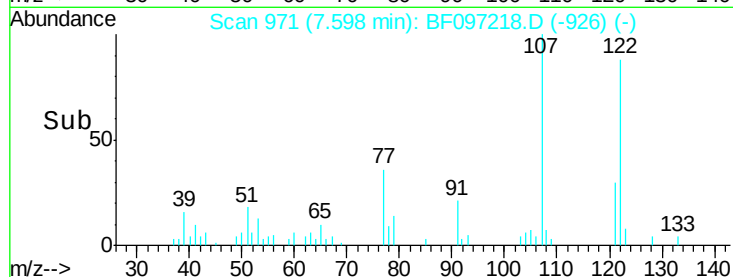
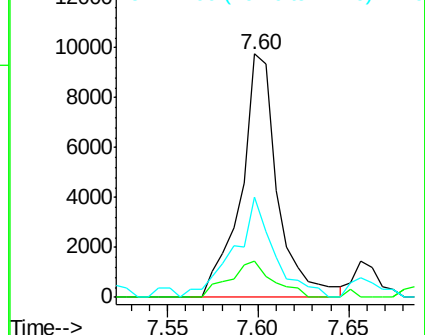
77 41.4 73.7 113.7#



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



#33

4-Chloroaniline

Concen: 28.85 ng

RT: 7.79 min Scan# 1004

Delta R.T. -0.07 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

Tgt Ion:127 Resp: 255739

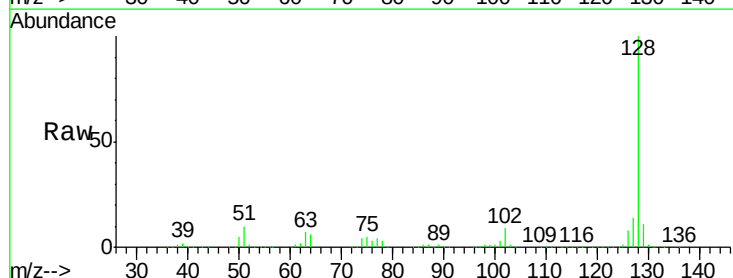
Ion Ratio Lower Upper

127 100

129 81.4 26.2 39.2#

65 0.0 27.8 41.8#

92 0.0 16.8 25.2#

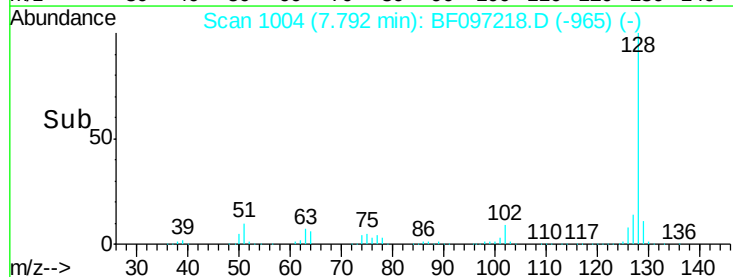
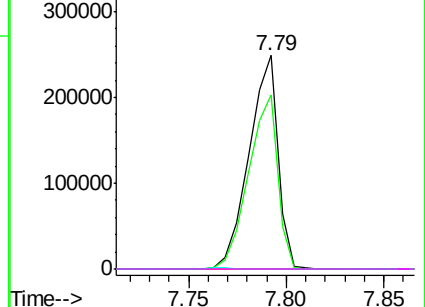


Abundance Ion 127.00 (126.70 to 127.70): E

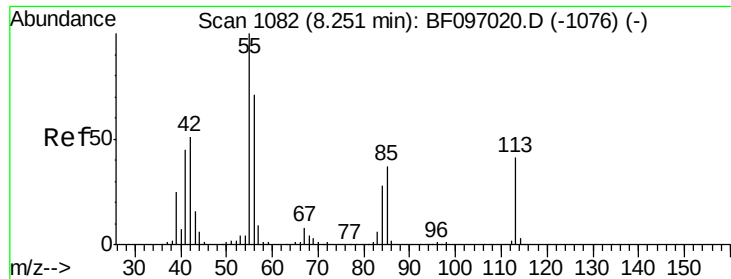
Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0



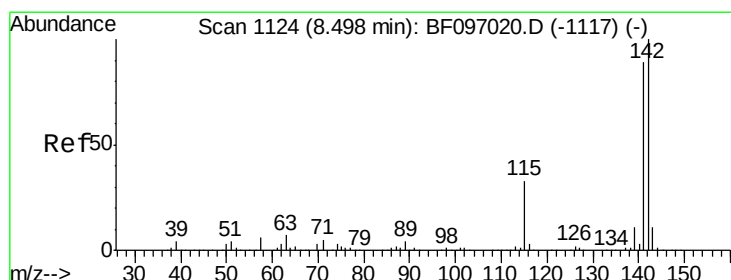
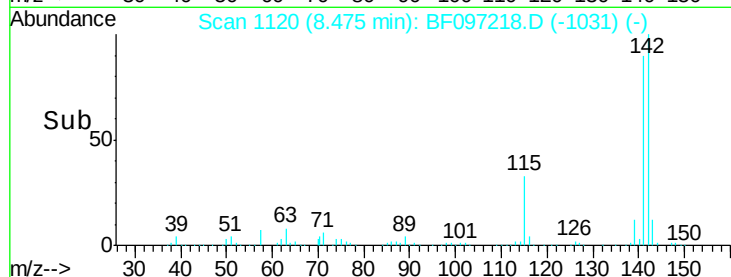
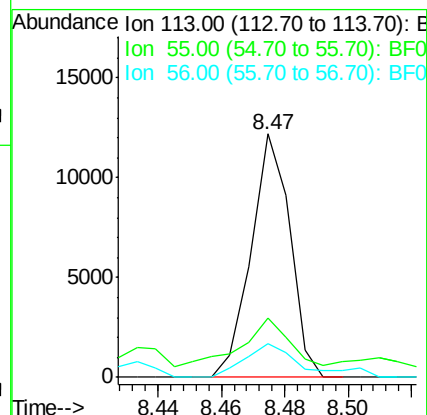
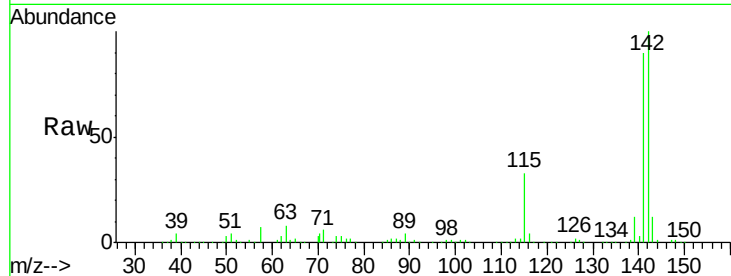




#35  
Caprolactam  
Concen: 5.12 ng  
RT: 8.47 min Scan# 1120  
Delta R.T. 0.22 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

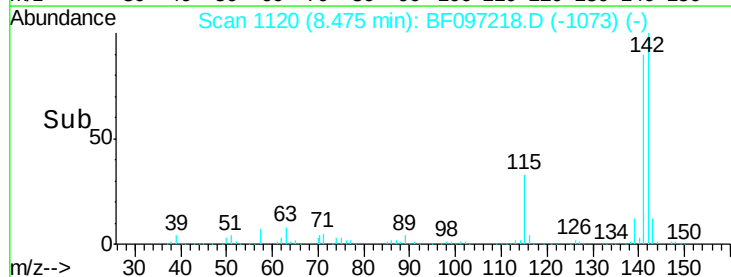
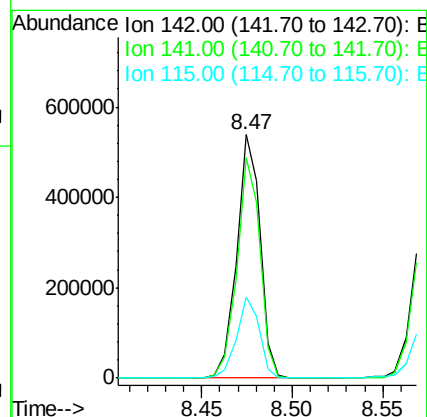
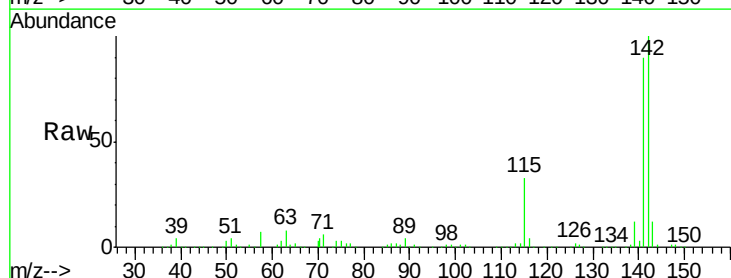
Instrument :  
BNA\_F  
ClientSampleId :  
TP-17-SS-8

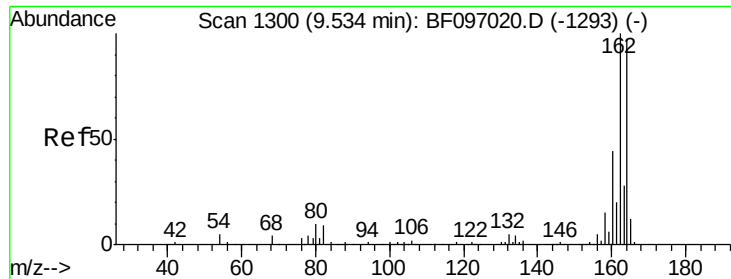
Tot Ion:113 Resp: 10360  
Ion Ratio Lower Upper  
113 100  
55 24.6 150.2 190.2#  
56 14.0 107.8 147.8#



#37  
2-Methylnaphthalene  
Concen: 35.13 ng  
RT: 8.47 min Scan# 1120  
Delta R.T. -0.02 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

Tgt Ion:142 Resp: 484570  
Ion Ratio Lower Upper  
142 100  
141 90.3 71.3 106.9  
115 33.1 27.1 40.7

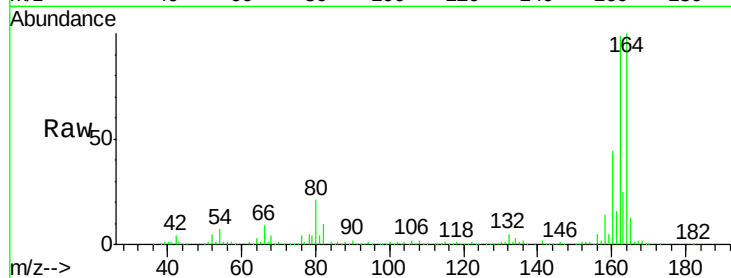




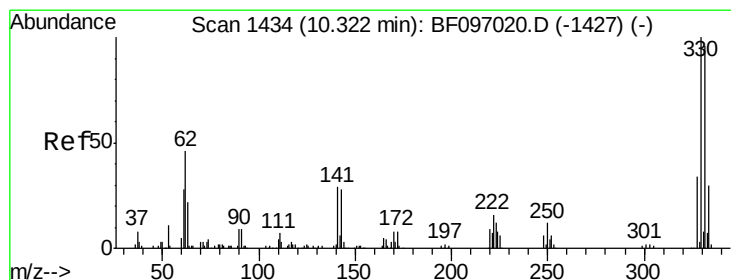
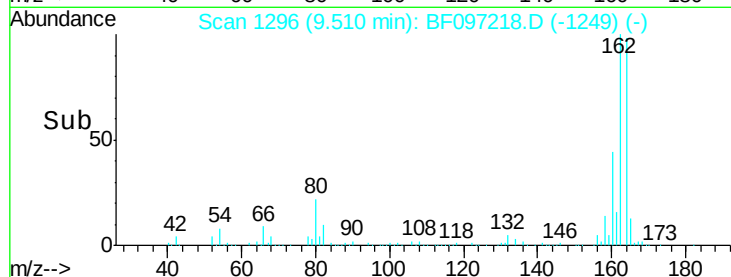
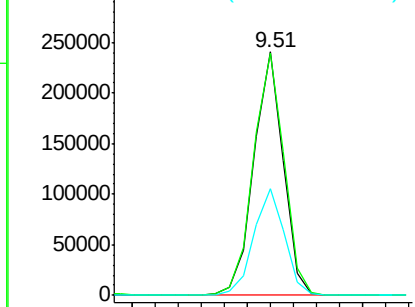
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.51 min Scan# 1296  
 Delta R.T. -0.02 min  
 Lab File: BF097218.D  
 Acq: 31 Jul 2017 20:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-17-SS-8

Tot Ion:164 Resp: 215686  
 Ion Ratio Lower Upper  
 164 100  
 162 99.4 82.6 123.8  
 160 43.8 36.2 54.2

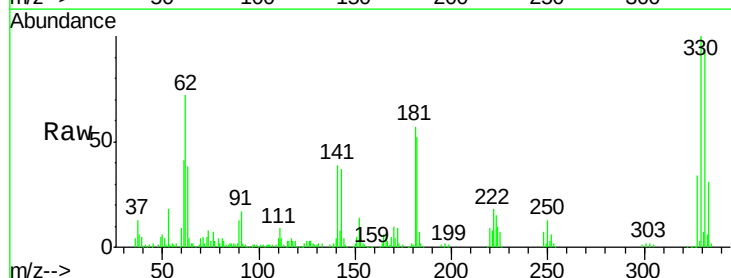


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

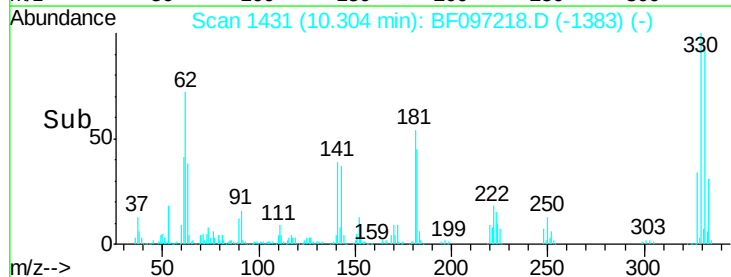
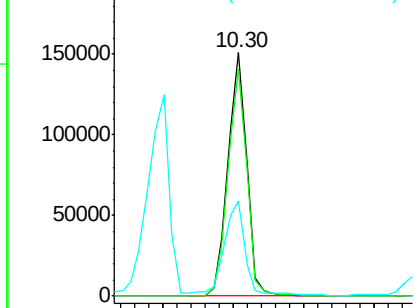


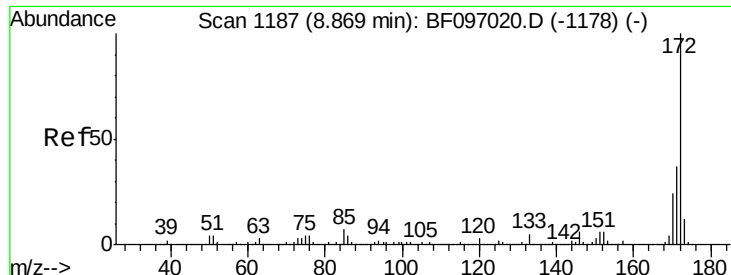
#41  
 2,4,6-Tribromophenol  
 Concen: 82.31 ng  
 RT: 10.30 min Scan# 1431  
 Delta R.T. -0.02 min  
 Lab File: BF097218.D  
 Acq: 31 Jul 2017 20:01

Tgt Ion:330 Resp: 140261  
 Ion Ratio Lower Upper  
 330 100  
 332 93.9 76.6 115.0  
 141 43.5 31.4 47.2



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

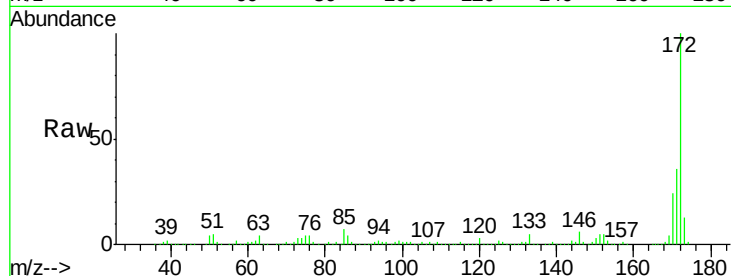




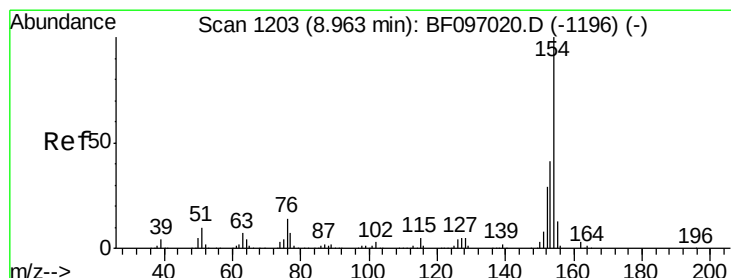
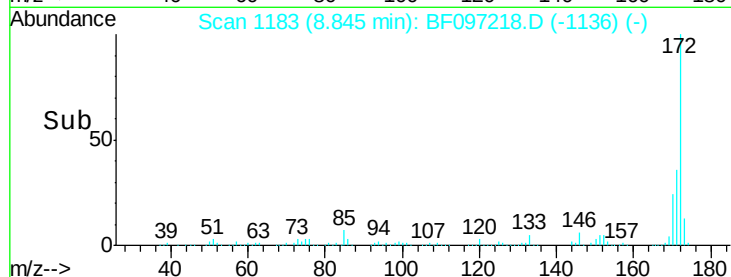
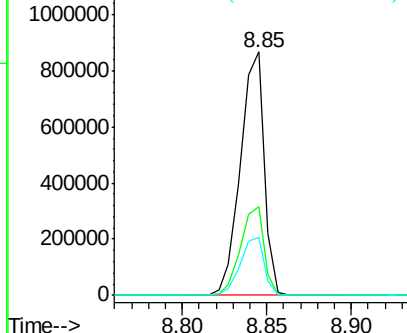
#44  
2-Fluorobiphenyl  
Concen: 67.19 ng  
RT: 8.85 min Scan# 1183  
Delta R.T. -0.02 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

Instrument :  
BNA\_F  
ClientSampleId :  
TP-17-SS-8

Tot Ion:172 Resp: 853925  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.6 44.4  
170 23.8 19.8 29.8

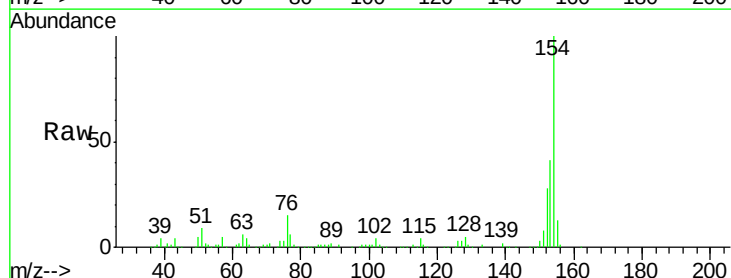


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

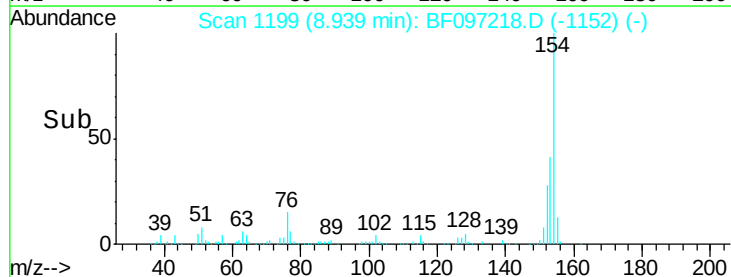
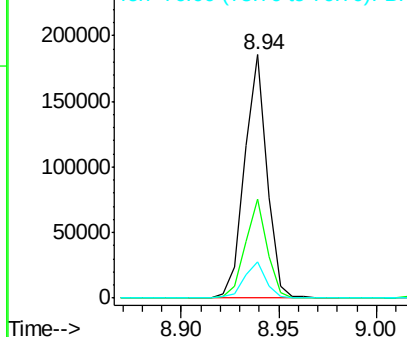


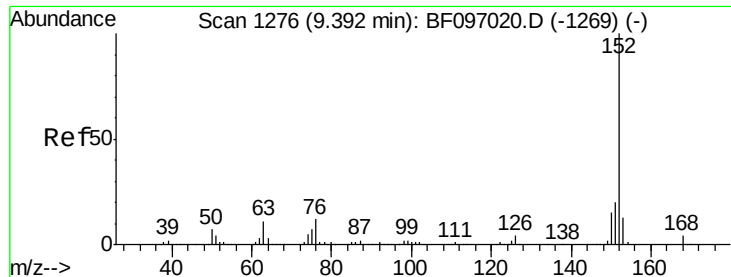
#45  
1,1'-Biphenyl  
Concen: 8.03 ng  
RT: 8.94 min Scan# 1199  
Delta R.T. -0.02 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

Tgt Ion:154 Resp: 147913  
Ion Ratio Lower Upper  
154 100  
153 40.8 21.2 61.2  
76 14.7 0.0 29.9



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BF0





#48

Acenaphthylene

Concen: 4.17 ng

RT: 9.37 min Scan# 1272

Delta R.T. -0.02 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

Instrument :

BNA\_F

ClientSampleId :

TP-17-SS-8

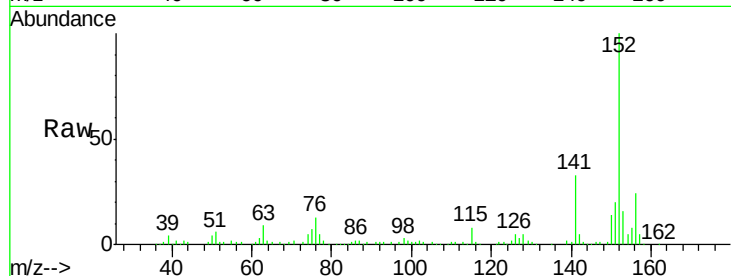
Tot Ion:152 Resp: 86840

Ion Ratio Lower Upper

152 100

151 20.3 16.8 25.2

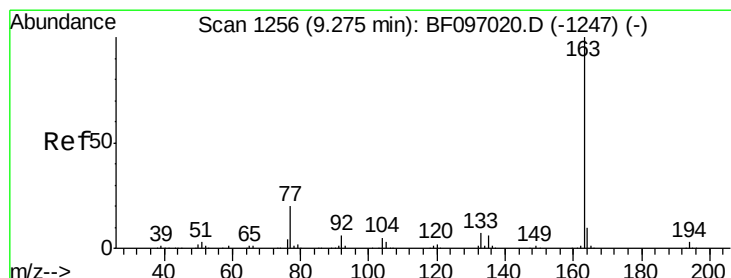
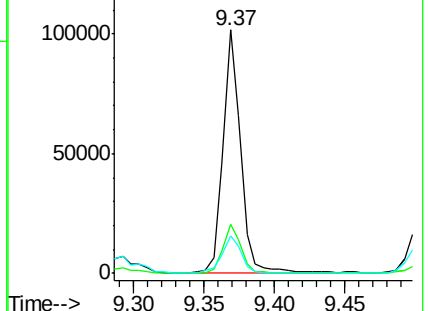
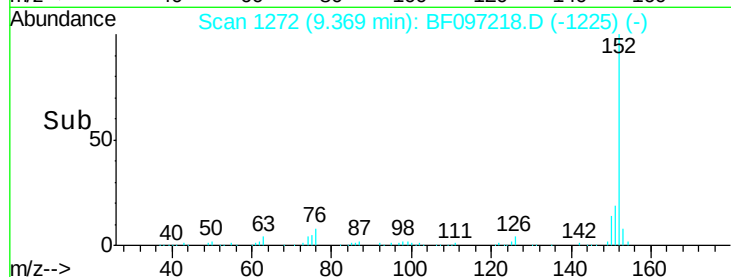
153 15.6 10.8 16.2



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: 15.87 ng

RT: 9.25 min Scan# 1251

Delta R.T. -0.03 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

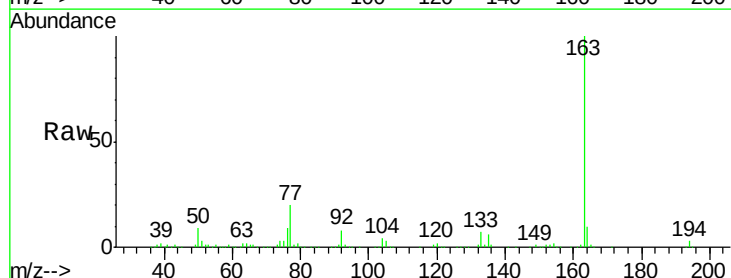
Tgt Ion:163 Resp: 259934

Ion Ratio Lower Upper

163 100

194 3.2 2.6 4.0

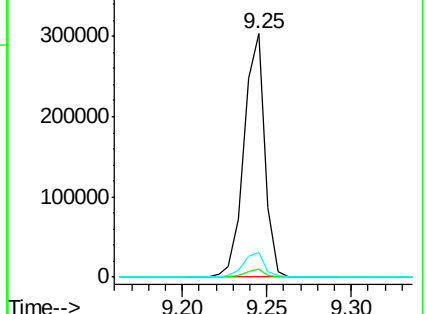
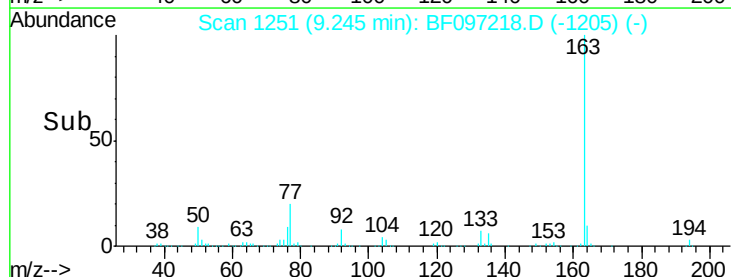
164 10.1 8.4 12.6

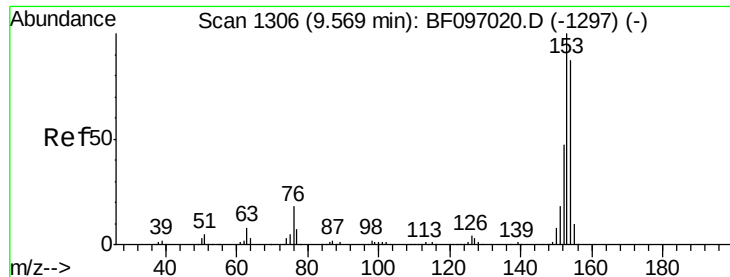


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 46.93 ng

RT: 9.55 min Scan# 1302

Delta R.T. -0.02 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

Instrument :

BNA\_F

ClientSampleId :

TP-17-SS-8

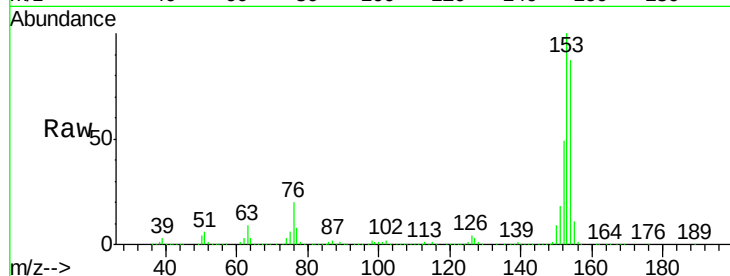
Tot Ion:154 Resp: 575202

Ion Ratio Lower Upper

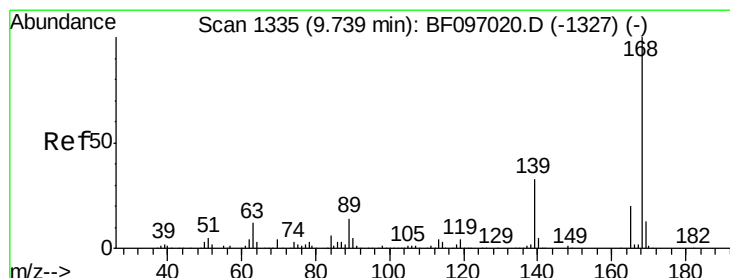
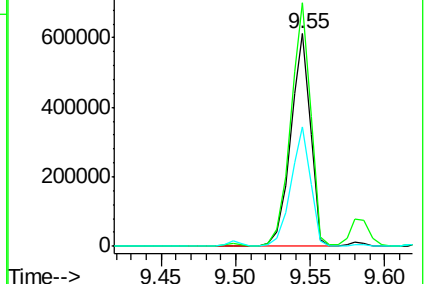
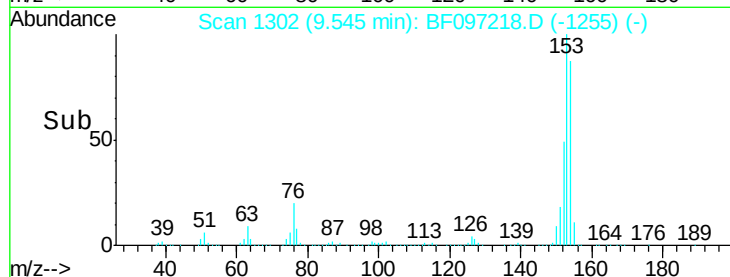
154 100

153 114.5 90.5 135.7

152 56.2 43.6 65.4



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

Dibenzofuran

Concen: 41.11 ng

RT: 9.72 min Scan# 1331

Delta R.T. -0.02 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

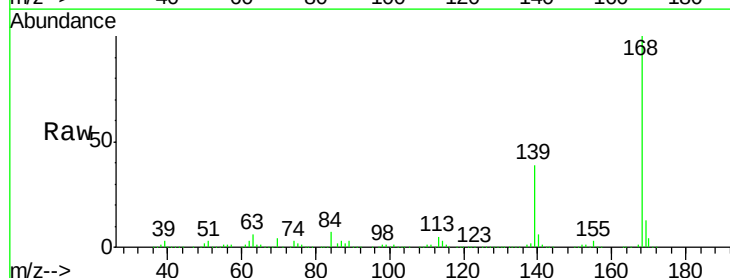
Tgt Ion:168 Resp: 671138

Ion Ratio Lower Upper

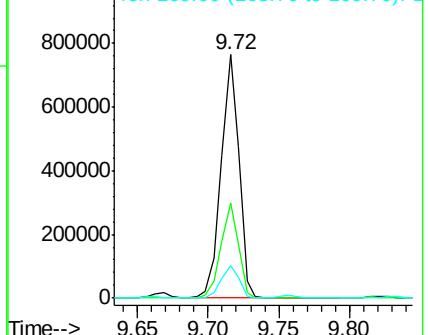
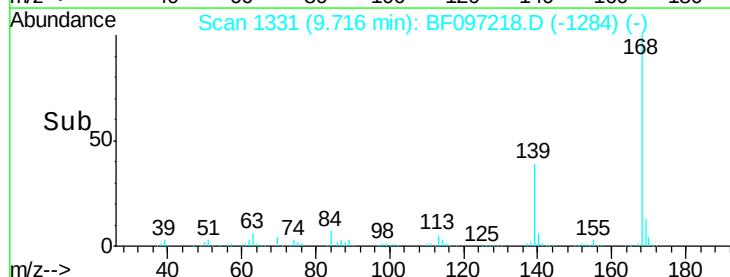
168 100

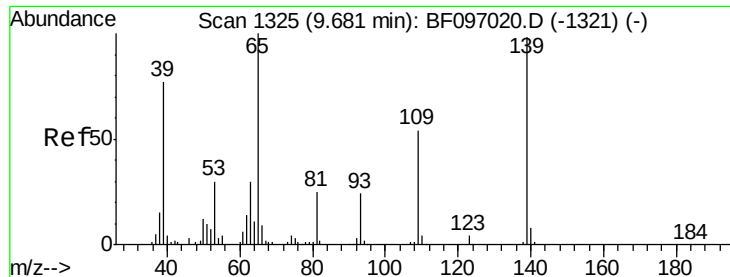
139 38.9 30.6 45.8

169 13.5 10.8 16.2



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

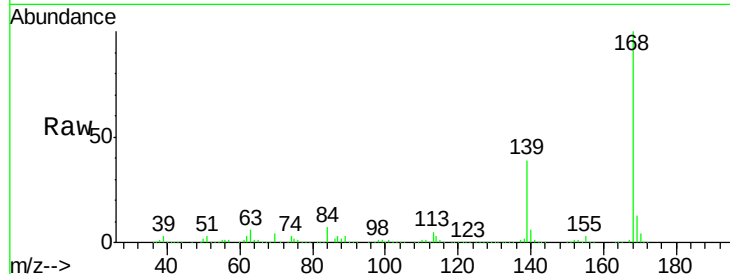




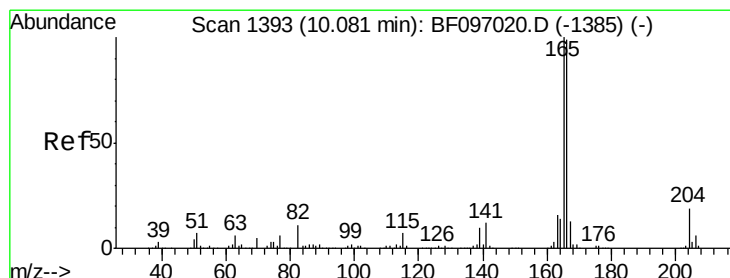
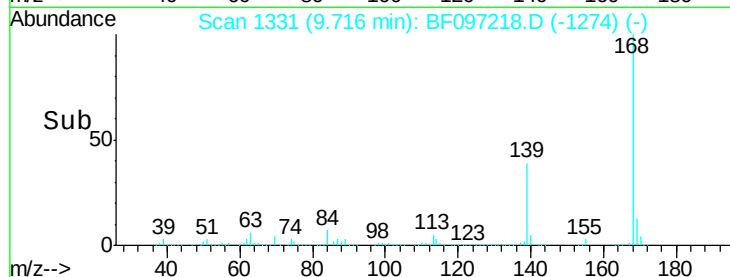
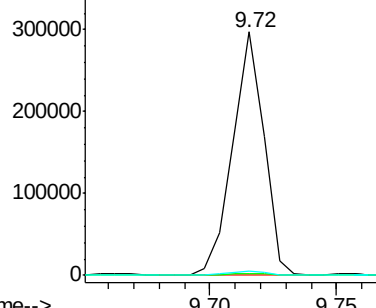
#55  
4-Nitrophenol  
Concen: 100.11 ng  
RT: 9.72 min Scan# 1331  
Delta R.T. 0.04 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

Instrument :  
BNA\_F  
ClientSampleId :  
TP-17-SS-8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 0.8   | 34.1  | 74.1# |
| 65      | 1.9   | 31.4  | 71.4# |

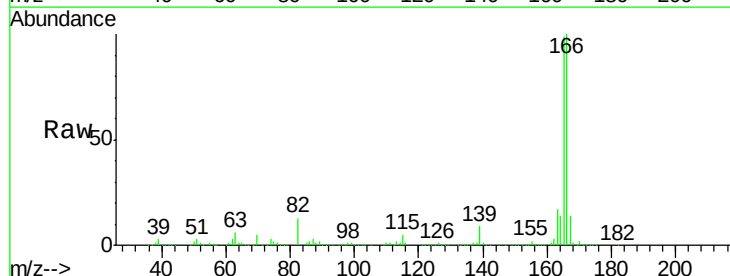


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): E

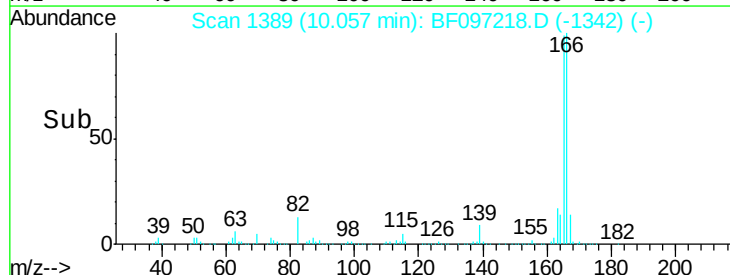
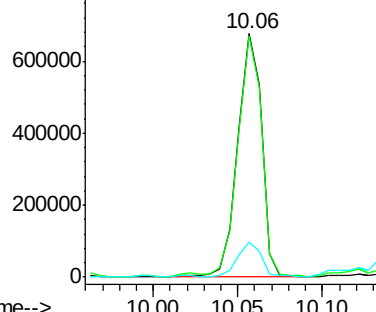


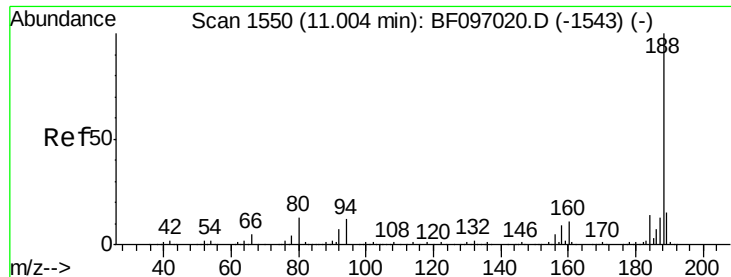
#57  
Fluorene  
Concen: 53.68 ng  
RT: 10.06 min Scan# 1389  
Delta R.T. -0.02 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.0  | 78.8  | 118.2 |
| 167     | 14.3  | 10.6  | 16.0  |



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E

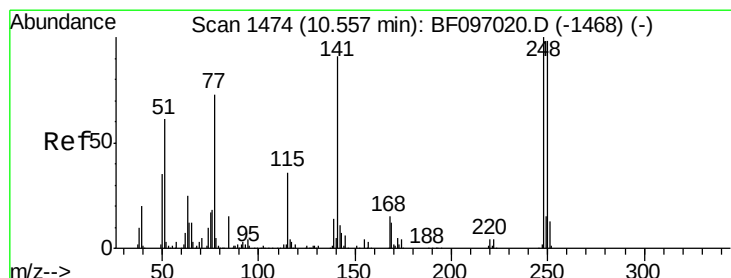
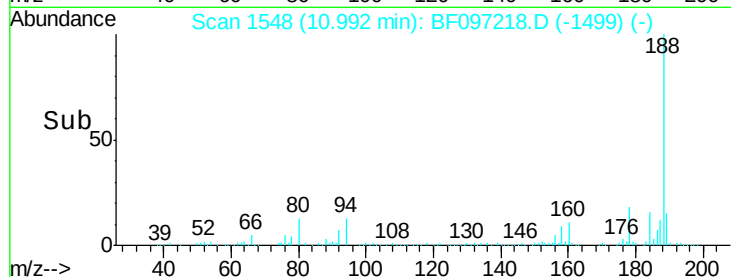
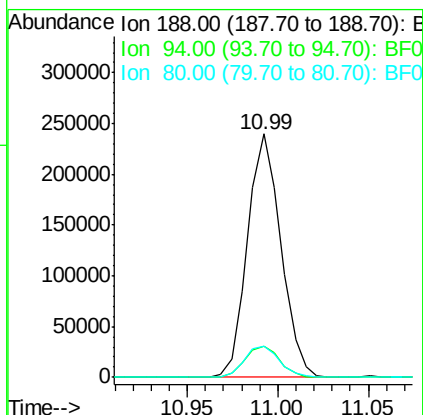
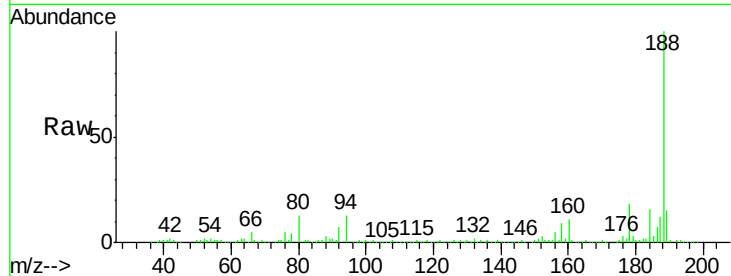




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 10.99 min Scan# 1548  
Delta R.T. -0.01 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

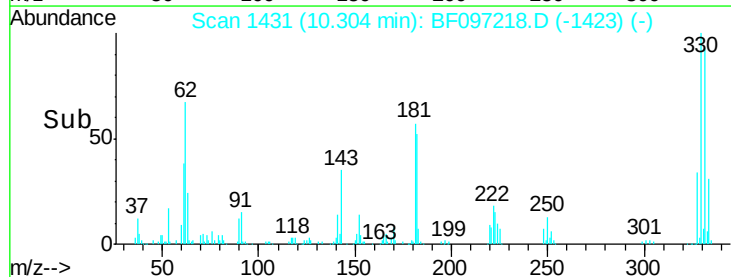
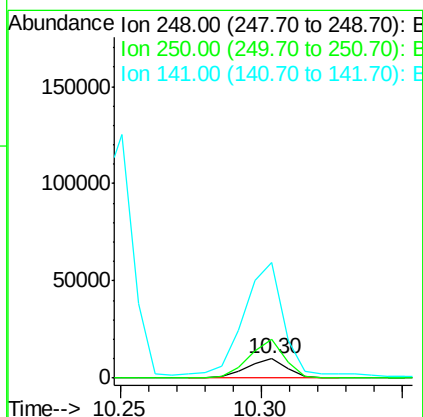
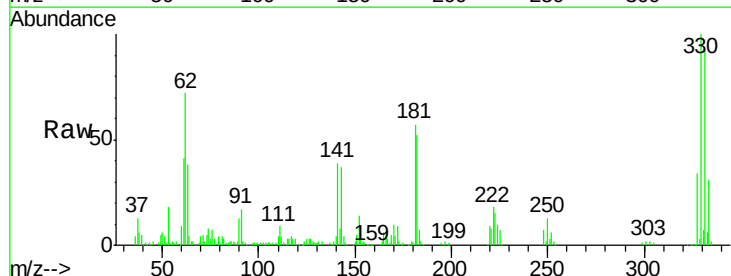
Instrument :  
BNA\_F  
ClientSampleId :  
TP-17-SS-8

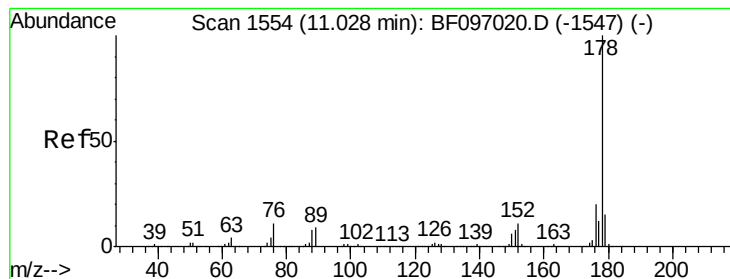
Tot Ion:188 Resp: 307182  
Ion Ratio Lower Upper  
188 100  
94 12.7 9.4 14.2  
80 12.6 10.2 15.2



#66  
4-Bromophenyl-phenylether  
Concen: 3.11 ng  
RT: 10.30 min Scan# 1431  
Delta R.T. -0.25 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

Tgt Ion:248 Resp: 9532  
Ion Ratio Lower Upper  
248 100  
250 199.5 76.8 115.2#  
141 596.8 68.6 103.0#





#70

Phenanthrene

Concen: 187.89 ng

RT: 11.03 min Scan# 1555

Delta R.T. 0.01 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

Instrument :

BNA\_F

ClientSampleId :

TP-17-SS-8

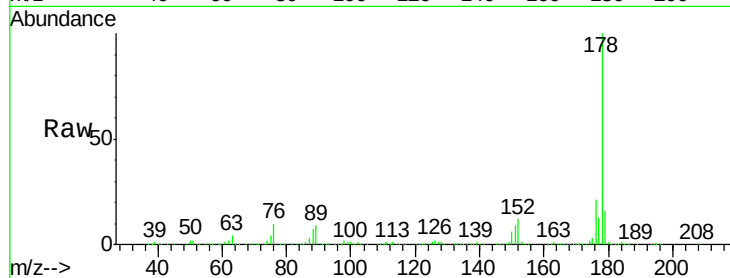
Tot Ion:178 Resp: 3092494

Ion Ratio Lower Upper

178 100

176 20.7 16.2 24.4

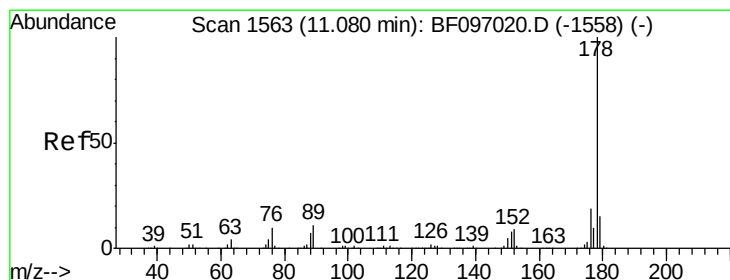
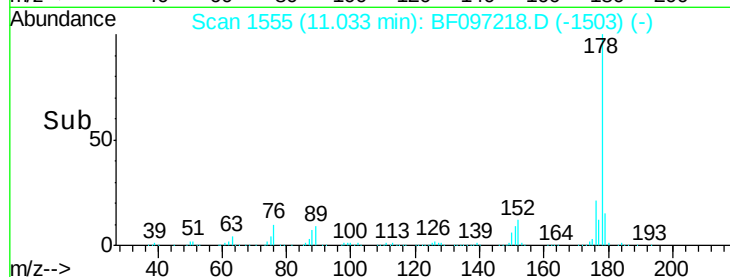
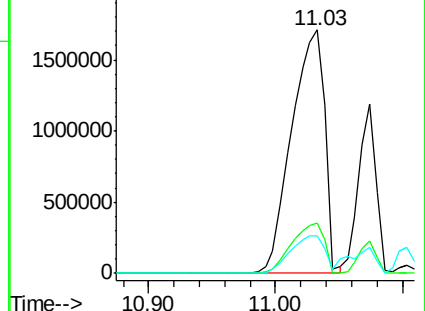
179 15.5 12.6 19.0



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: 65.02 ng

RT: 11.07 min Scan# 1562

Delta R.T. -0.01 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

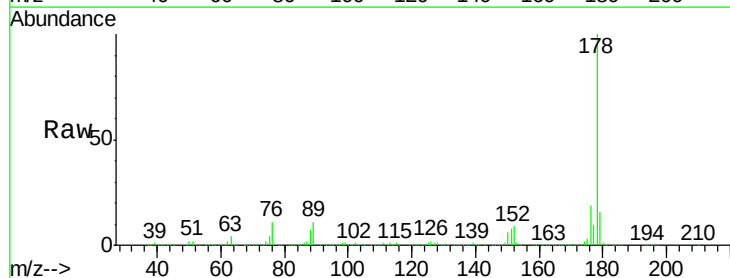
Tgt Ion:178 Resp: 1096079

Ion Ratio Lower Upper

178 100

176 19.5 15.8 23.8

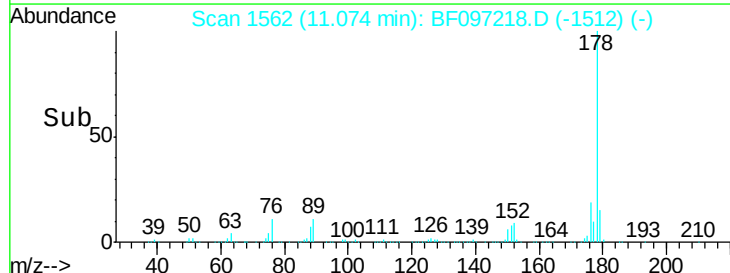
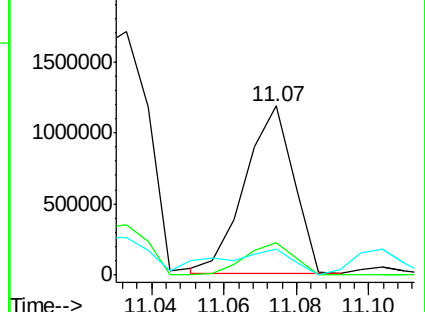
179 15.5 12.7 19.1



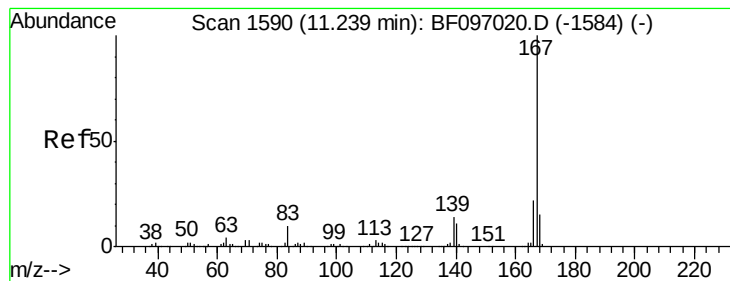
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E







#72

Carbazole

Concen: 45.38 ng

RT: 11.23 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

Instrument :

BNA\_F

ClientSampleId :

TP-17-SS-8

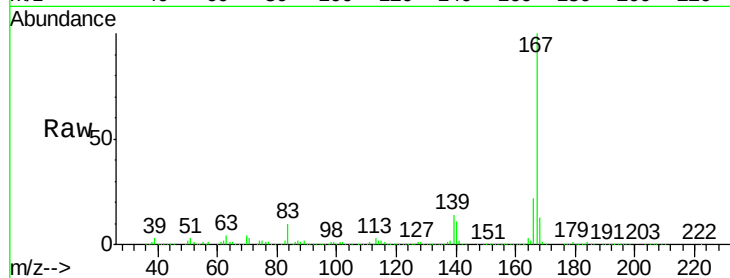
Tot Ion:167 Resp: 752371

Ion Ratio Lower Upper

167 100

166 22.2 18.1 27.1

139 14.1 11.7 17.5

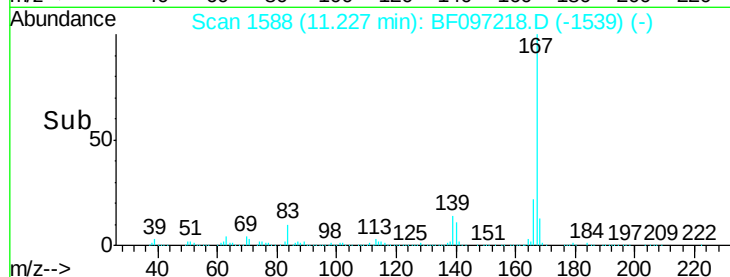


Abundance Ion 167.00 (166.70 to 167.70): E

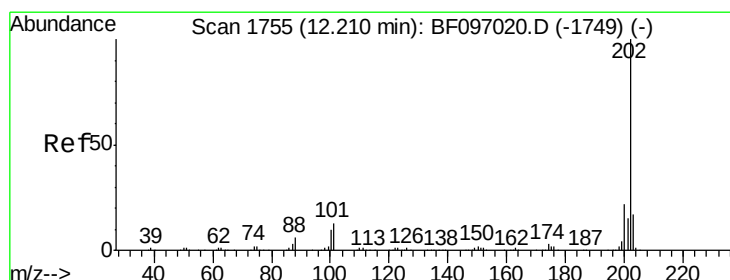
Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

11.23



Time-->



#74

Fluoranthene

Concen: 177.84 ng

RT: 12.22 min Scan# 1757

Delta R.T. 0.01 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

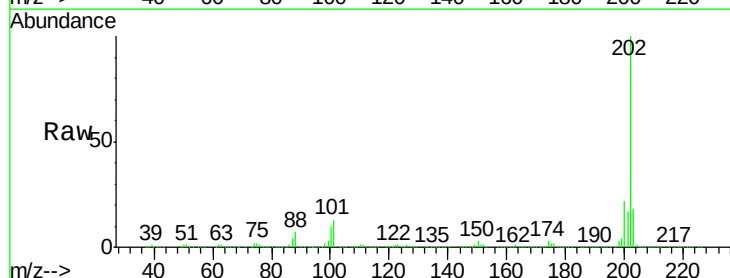
Tgt Ion:202 Resp: 2867515

Ion Ratio Lower Upper

202 100

101 13.4 0.0 33.2

203 17.9 0.0 38.1

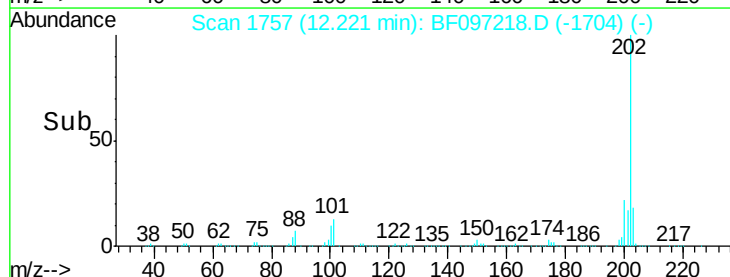


Abundance Ion 202.00 (201.70 to 202.70): E

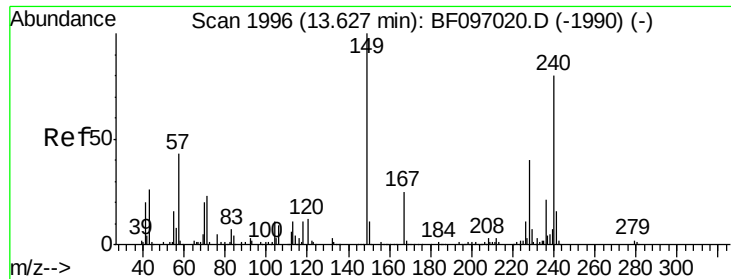
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

12.22



Time-->



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.63 min Scan# 1997

Delta R.T. 0.01 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

Instrument :

BNA\_F

ClientSampleId :

TP-17-SS-8

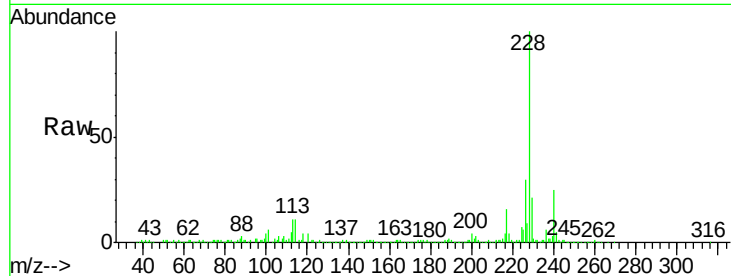
Tot Ion:240 Resp: 155194

Ion Ratio Lower Upper

240 100

120 16.7 5.8 8.8#

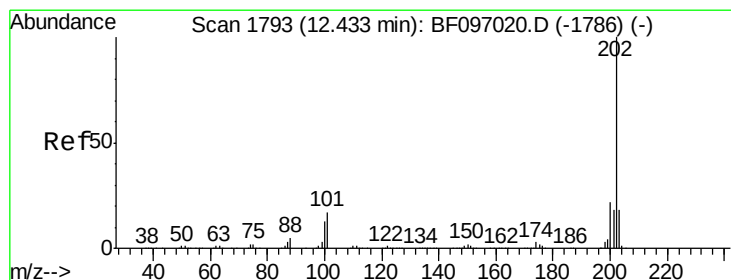
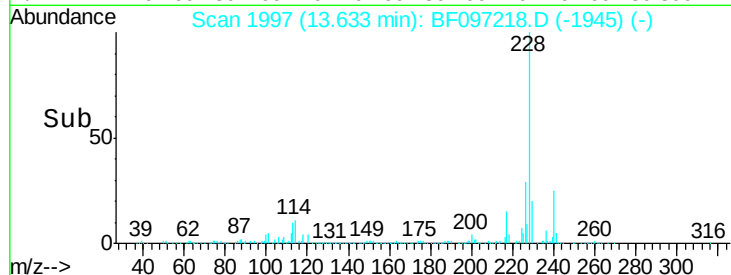
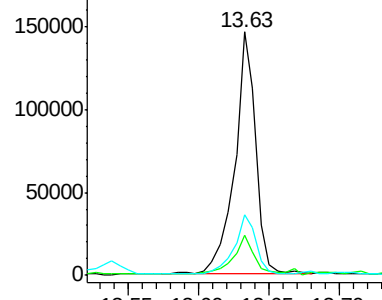
236 24.6 20.5 30.7



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: 190.39 ng

RT: 12.44 min Scan# 1795

Delta R.T. 0.01 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

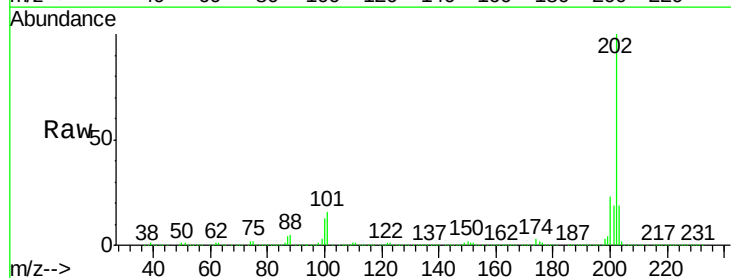
Tgt Ion:202 Resp: 2418907

Ion Ratio Lower Upper

202 100

200 22.9 17.6 26.4

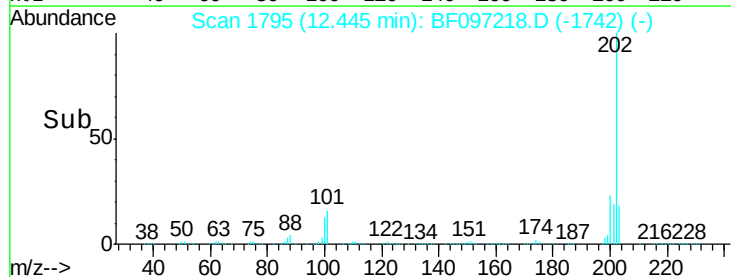
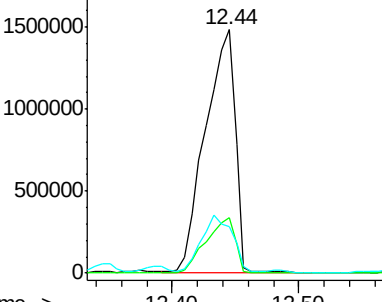
203 19.0 14.4 21.6

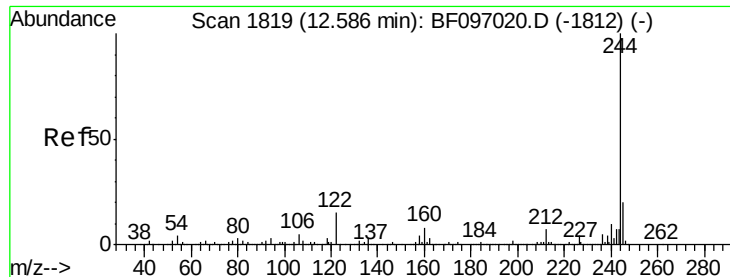


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 54.68 ng

RT: 12.57 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

Instrument :

BNA\_F

ClientSampleId :

TP-17-SS-8

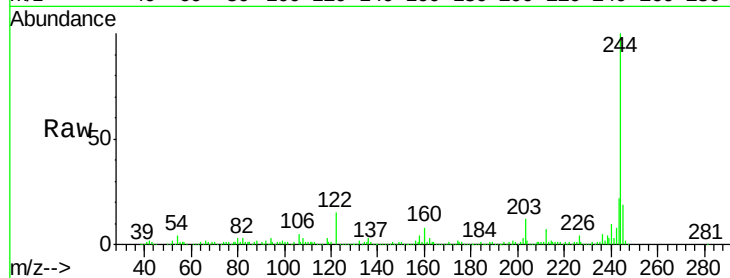
Tot Ion:244 Resp: 416245

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

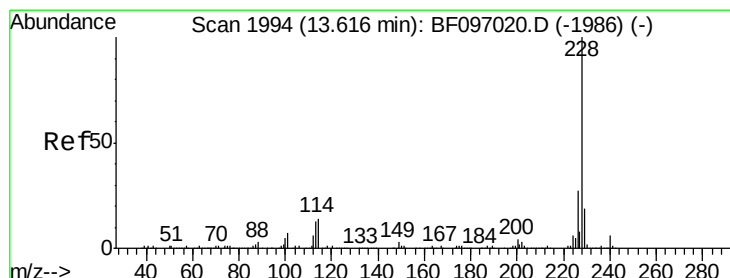
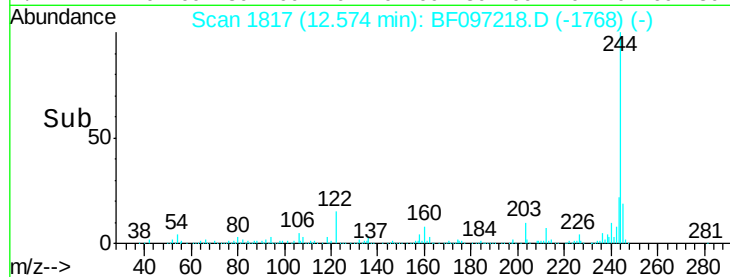
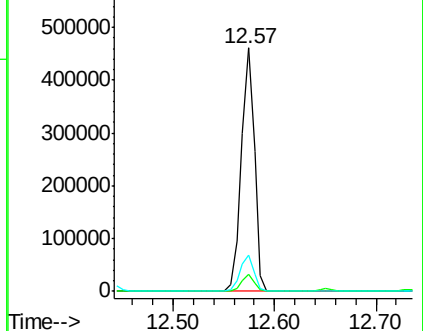
122 15.1 10.3 15.5



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: 156.86 ng

RT: 13.63 min Scan# 1996

Delta R.T. 0.01 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

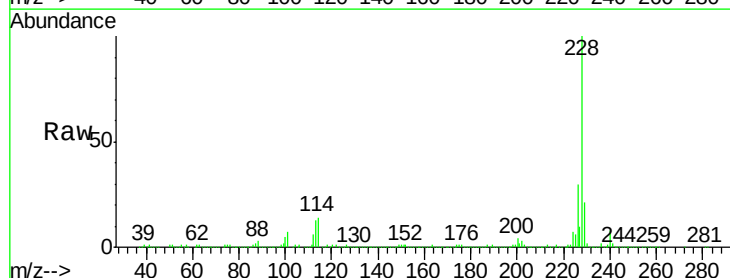
Tgt Ion:228 Resp: 1575173

Ion Ratio Lower Upper

228 100

226 29.6 22.6 33.8

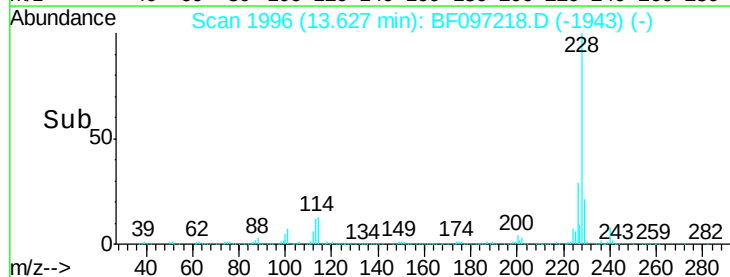
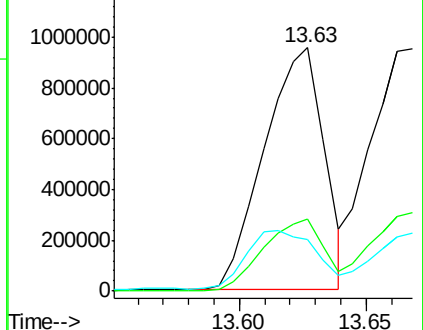
229 21.0 16.3 24.5

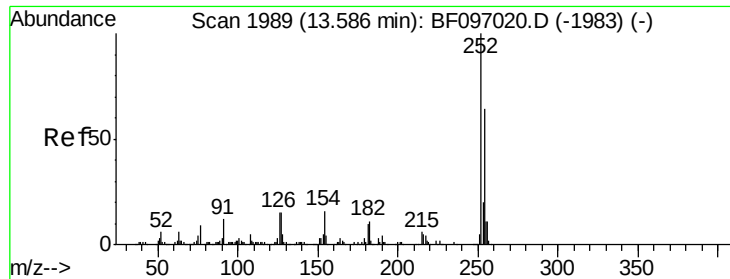


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

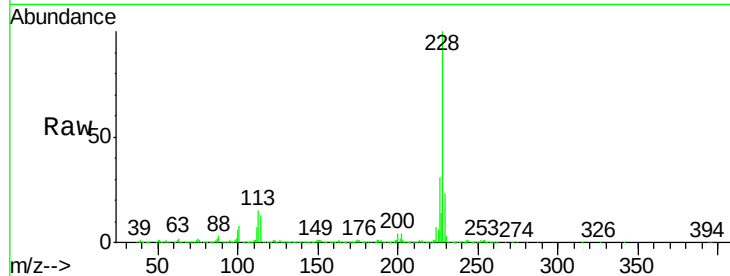




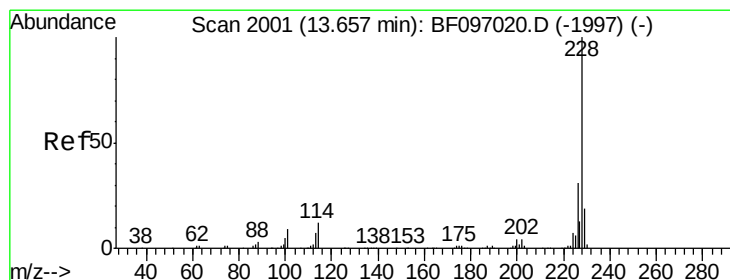
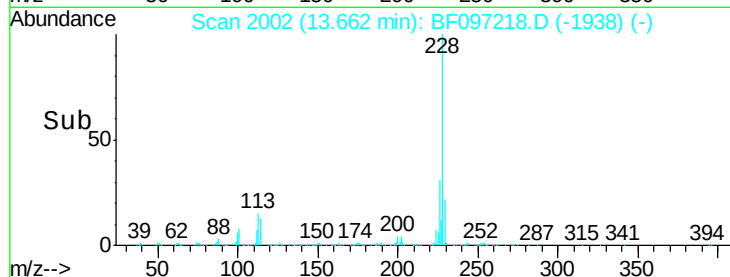
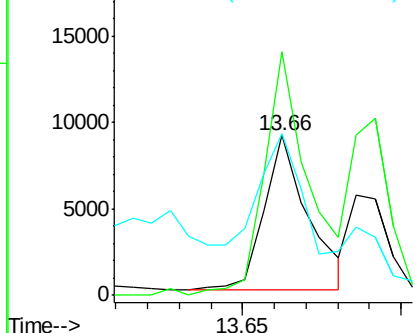
#81  
 3,3'-Dichlorobenzidine  
 Concen: 2.24 ng  
 RT: 13.66 min Scan# 2002  
 Delta R.T. 0.08 min  
 Lab File: BF097218.D  
 Acq: 31 Jul 2017 20:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-17-SS-8

Tot Ion:252 Resp: 8490  
 Ion Ratio Lower Upper  
 252 100  
 254 152.1 51.5 77.3#  
 126 101.3 15.8 23.8#

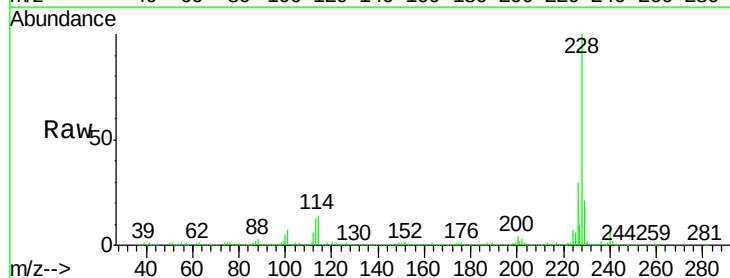


Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 254.00 (253.70 to 254.70): E  
 Ion 126.00 (125.70 to 126.70): E

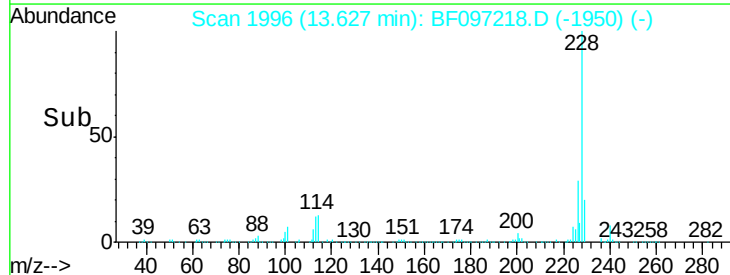
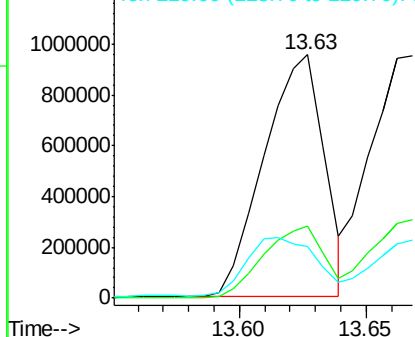


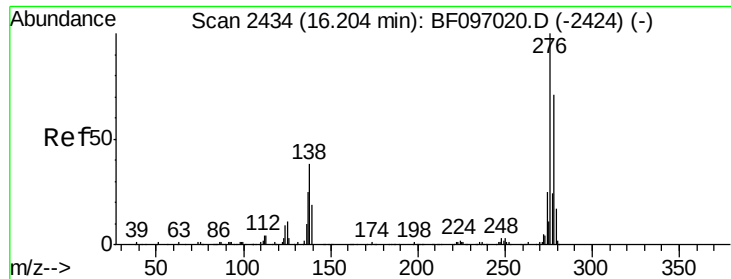
#82  
 Chrysene  
 Concen: 160.64 ng  
 RT: 13.63 min Scan# 1996  
 Delta R.T. -0.03 min  
 Lab File: BF097218.D  
 Acq: 31 Jul 2017 20:01

Tgt Ion:228 Resp: 1575173  
 Ion Ratio Lower Upper  
 228 100  
 226 29.6 24.9 37.3  
 229 21.0 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E

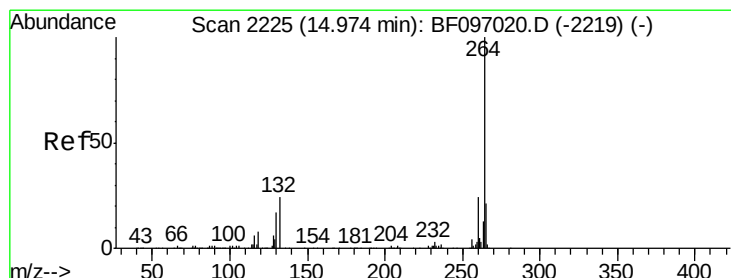
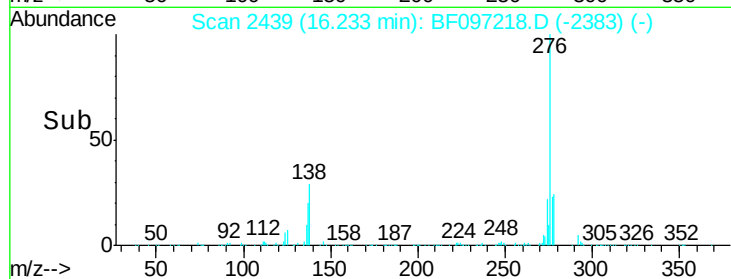
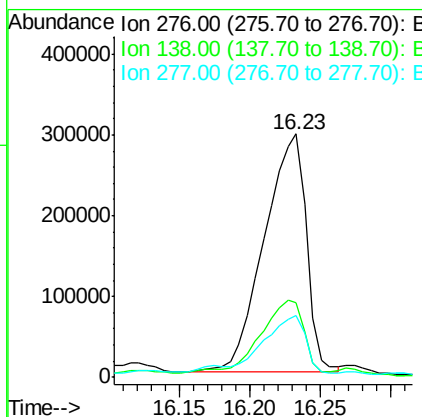
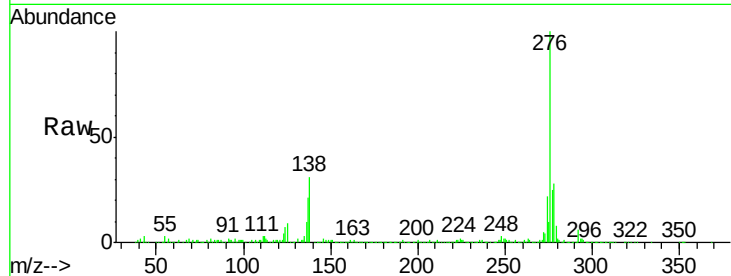




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 73.05 ng  
 RT: 16.23 min Scan# 2439  
 Delta R.T. 0.03 min  
 Lab File: BF097218.D  
 Acq: 31 Jul 2017 20:01

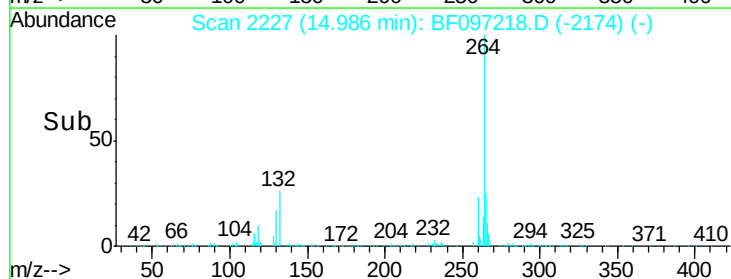
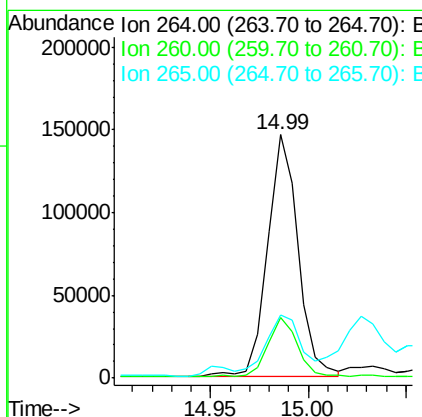
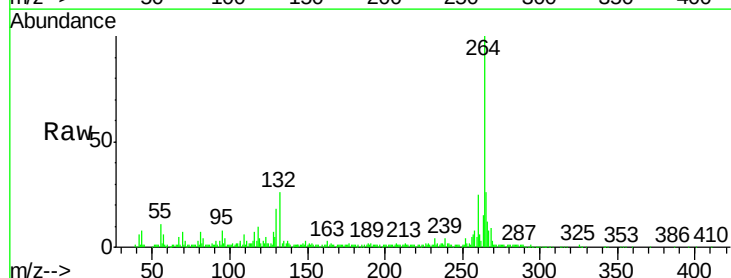
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-17-SS-8

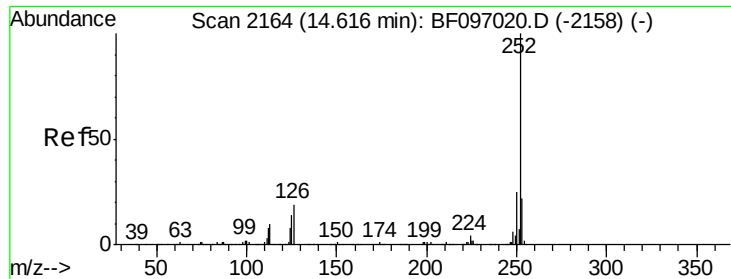
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 33.4  | 27.8  | 41.6  |
| 277     | 27.4  | 20.2  | 30.4  |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 14.99 min Scan# 2227  
 Delta R.T. 0.01 min  
 Lab File: BF097218.D  
 Acq: 31 Jul 2017 20:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.5  | 29.3  |
| 265     | 26.0  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 221.65 ng

RT: 14.64 min Scan# 2168

Delta R.T. 0.02 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

Instrument :

BNA\_F

ClientSampleId :

TP-17-SS-8

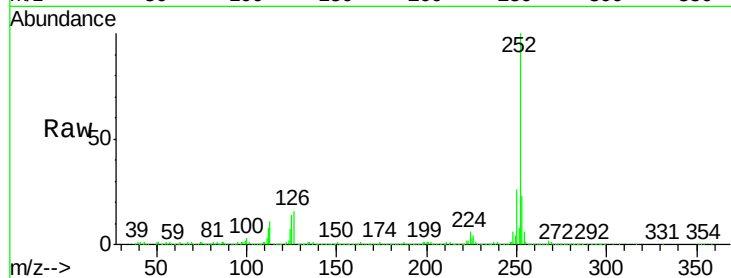
Tot Ion:252 Resp: 2131467

Ion Ratio Lower Upper

252 100

253 23.1 18.1 27.1

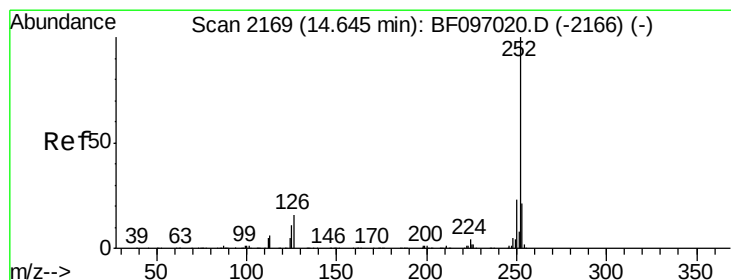
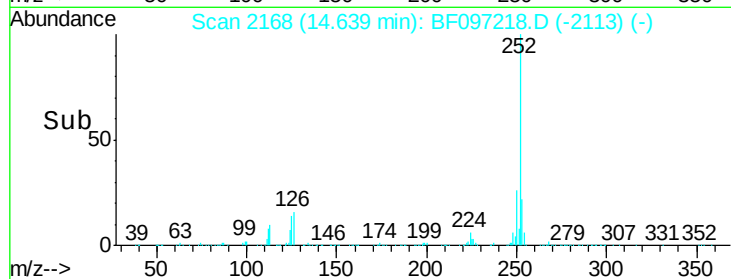
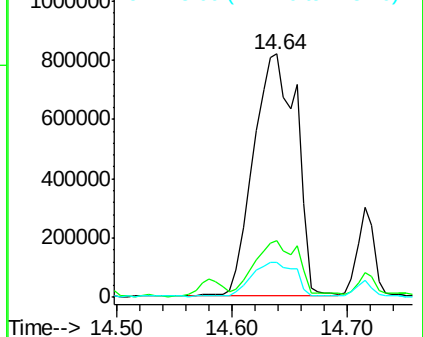
125 14.4 9.8 14.8



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: 232.60 ng

RT: 14.64 min Scan# 2168

Delta R.T. -0.01 min

Lab File: BF097218.D

Acq: 31 Jul 2017 20:01

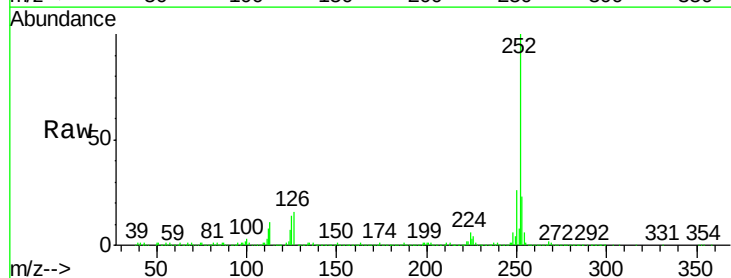
Tgt Ion:252 Resp: 2131467

Ion Ratio Lower Upper

252 100

253 23.1 18.4 27.6

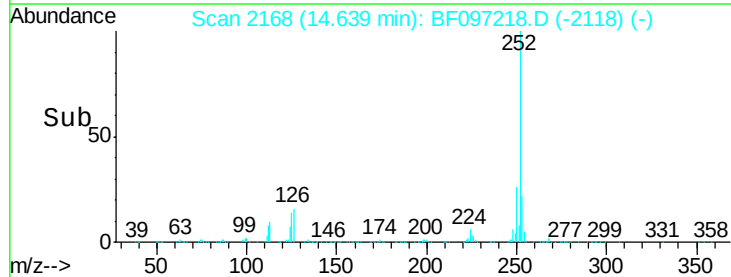
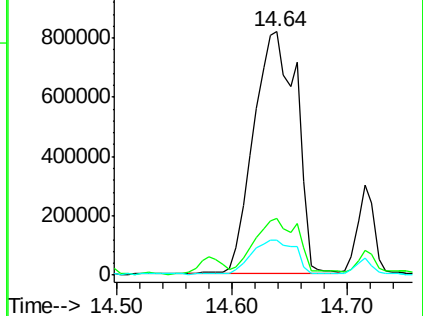
125 14.4 13.1 19.7

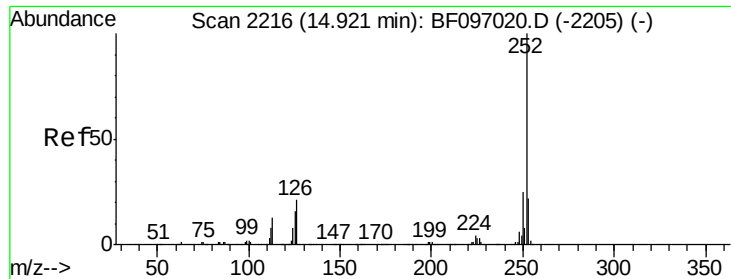


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

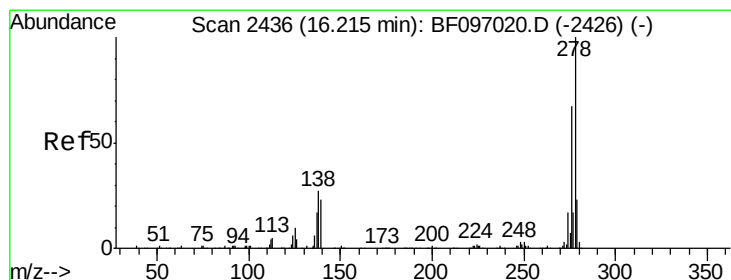
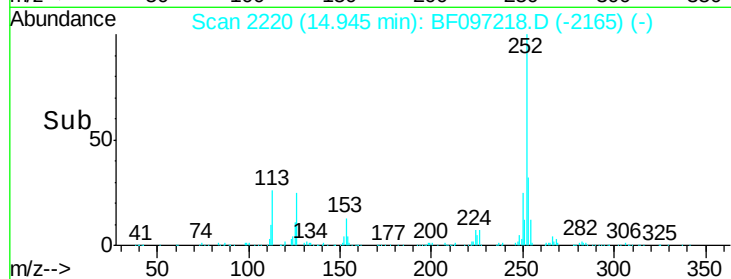
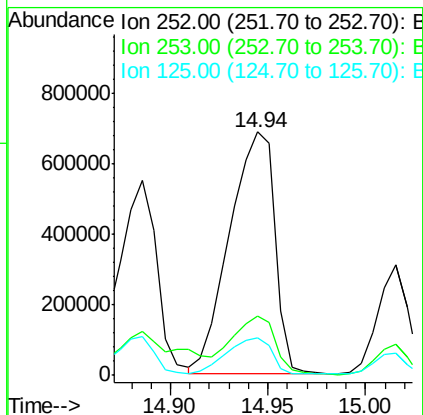
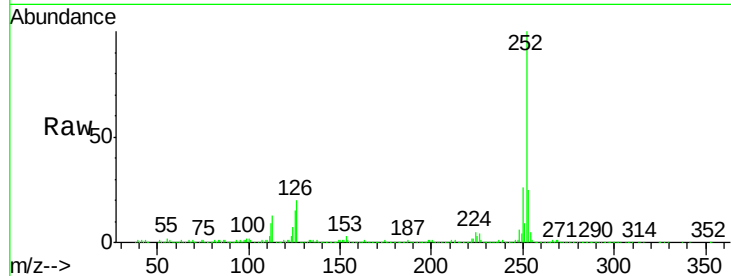




#89  
Benzo(a)pyrene  
Concen: 125.86 ng  
RT: 14.94 min Scan# 2220  
Delta R.T. 0.02 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

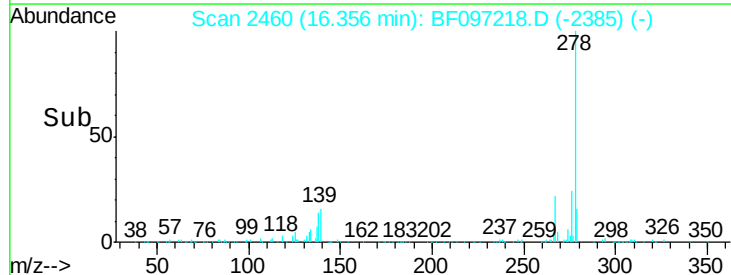
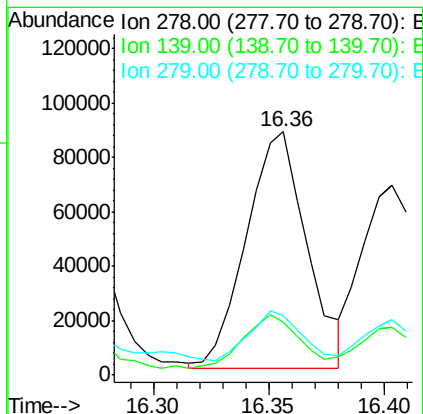
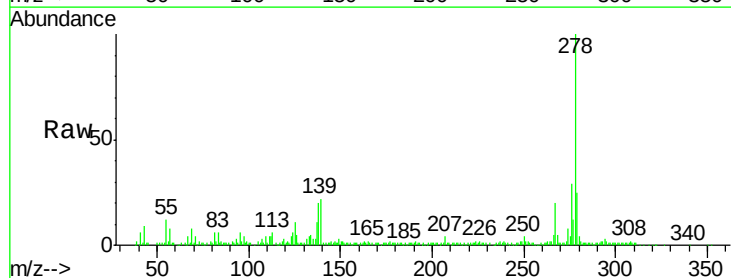
Instrument :  
BNA\_F  
ClientSampleId :  
TP-17-SS-8

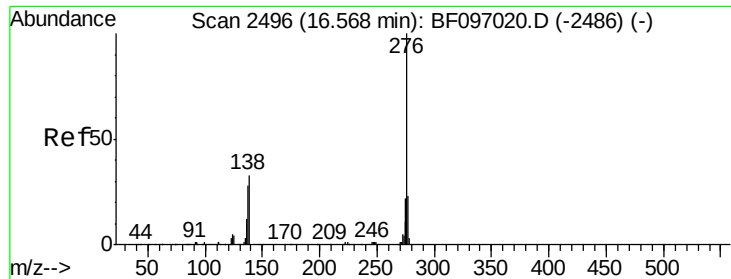
Tot Ion:252 Resp: 1107739  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.5 26.3  
125 15.4 11.0 16.4



#90  
Dibenzo(a,h)anthracene  
Concen: 22.12 ng  
RT: 16.36 min Scan# 2460  
Delta R.T. 0.14 min  
Lab File: BF097218.D  
Acq: 31 Jul 2017 20:01

Tgt Ion:278 Resp: 159681  
Ion Ratio Lower Upper  
278 100  
139 21.5 16.6 24.8  
279 24.6 19.3 28.9





#91  
 Benzo(a,h,i)perylene  
 Concen: 74.28 ng  
 RT: 16.60 min Scan# 2501  
 Delta R.T. 0.03 min  
 Lab File: BF097218.D  
 Acq: 31 Jul 2017 20:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-17-SS-8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.3  | 18.6  | 28.0  |
| 138     | 33.0  | 25.4  | 38.0  |

