

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF081517\  
 Data File : BF097689.D  
 Acq On : 15 Aug 2017 14:21  
 Operator : SJ/JU  
 Sample : I4705-04  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-B-COMP

Quant Time: Aug 15 15:18:08 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 15 13:25:08 2017  
 Response via : Initial Calibration

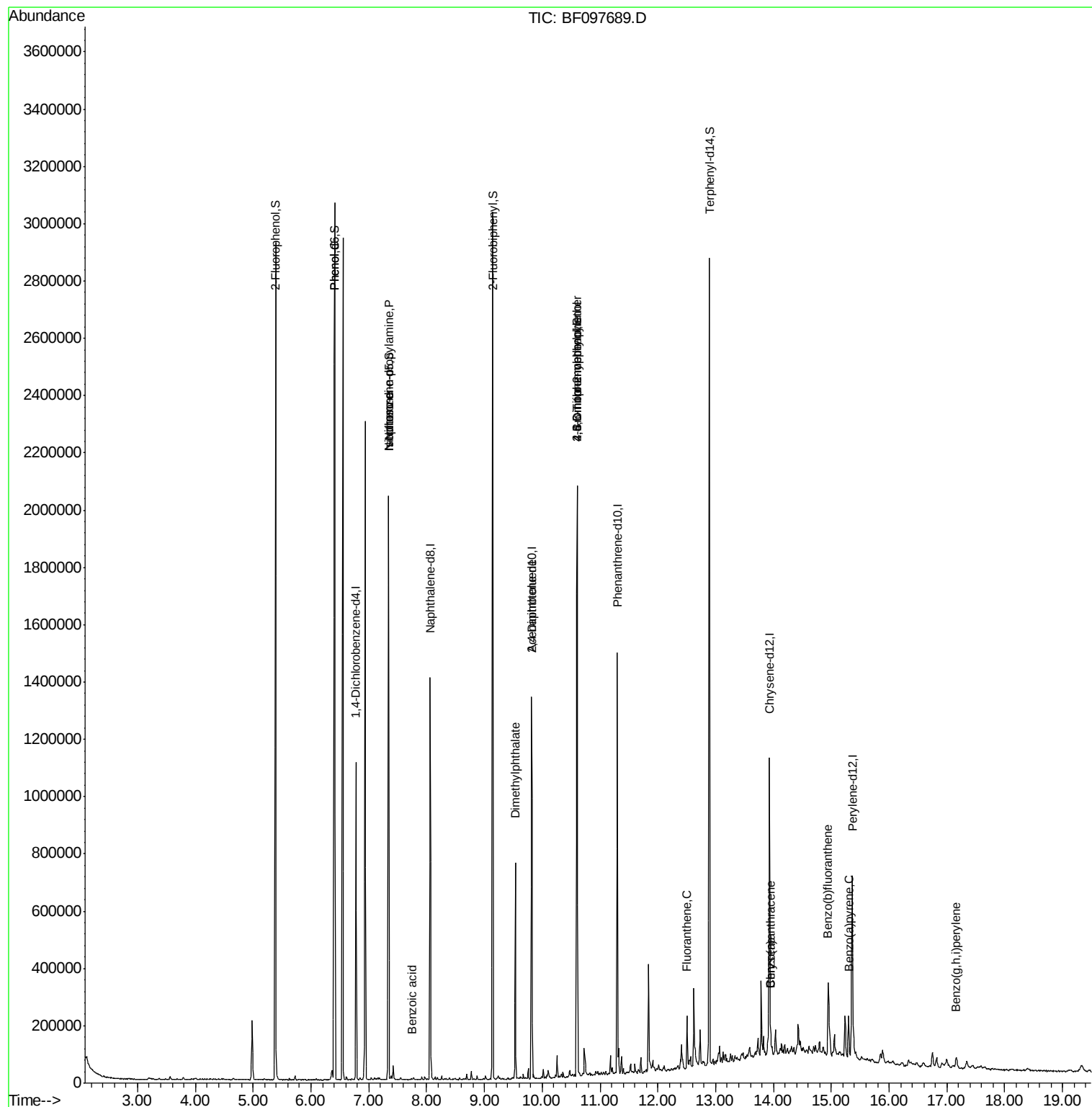
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.78  | 152  | 130264   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.06  | 136  | 525004   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.82  | 164  | 237630   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.30 | 188  | 467775   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.93 | 240  | 337766   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.36 | 264  | 260038   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.39  | 112  | 856803   | 100.05 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.41  | 99   | 1173993  | 100.89 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.35  | 82   | 703111   | 72.75  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.60 | 330  | 221974   | 107.66 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.15  | 172  | 975940   | 60.34  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.89 | 244  | 905582   | 55.91  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.42  | 94   | 34870    | 2.562  | ng    | # 75     |
| 19) n-Nitroso-di-n-propylamine | 7.35  | 70   | 94598    | 11.876 | ng    | # 73     |
| 25) Isophorone                 | 7.35  | 82   | 702882   | 34.977 | ng    | # 67     |
| 32) Benzoic acid               | 7.73  | 122  | 751      | 6.511  | ng    | # 83     |
| 49) Dimethylphthalate          | 9.53  | 163  | 249437   | 14.360 | ng    | 100      |
| 56) 2,4-Dinitrotoluene         | 9.82  | 165  | 30010    | 6.897  | ng    | # 34     |
| 64) 4,6-Dinitro-2-methylphenol | 10.60 | 198  | 433      | 8.483  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.60 | 248  | 14514    | 2.988  | ng    | # 1      |
| 74) Fluoranthene               | 12.50 | 202  | 61993    | 2.383  | ng    | 98       |
| 80) Benzo(a)anthracene         | 13.96 | 228  | 41998    | 2.075  | ng    | 97       |
| 82) Chrysene                   | 13.96 | 228  | 41998    | 2.086  | ng    | 96       |
| 87) Benzo(b)fluoranthene       | 14.95 | 252  | 158584   | 9.675  | ng    | 99       |
| 89) Benzo(a)pyrene             | 15.30 | 252  | 65199    | 4.493  | ng    | 99       |
| 91) Benzo(g,h,i)perylene       | 17.16 | 276  | 31650    | 2.568  | ng    | # 90     |

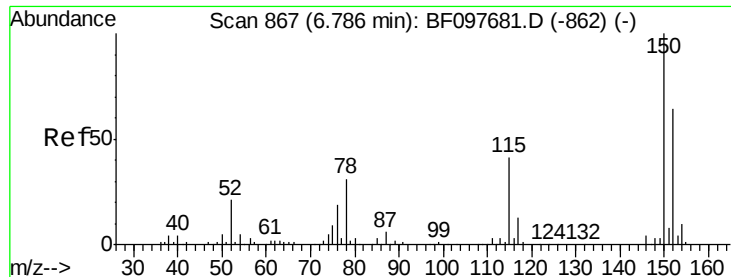
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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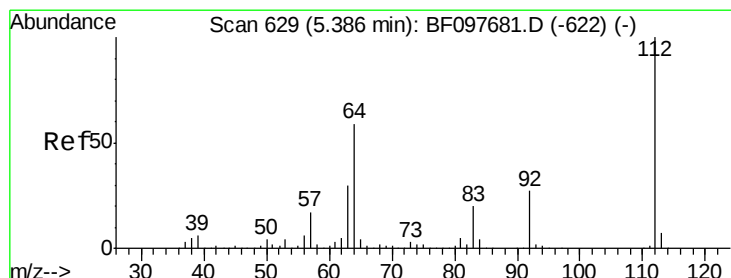
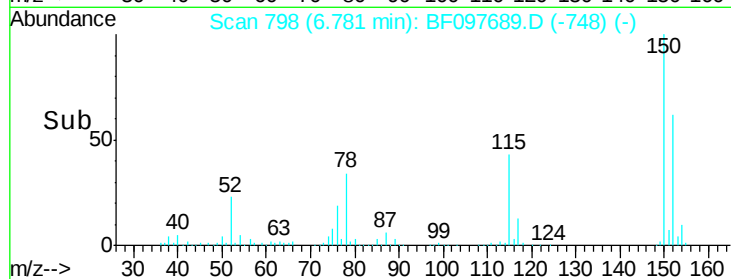
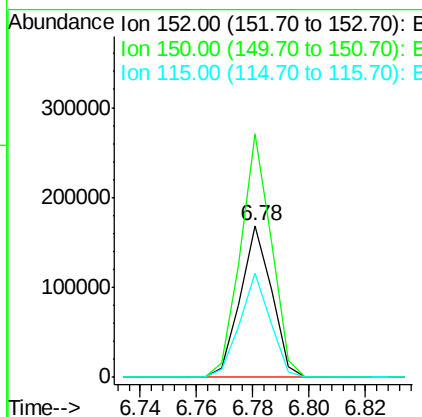
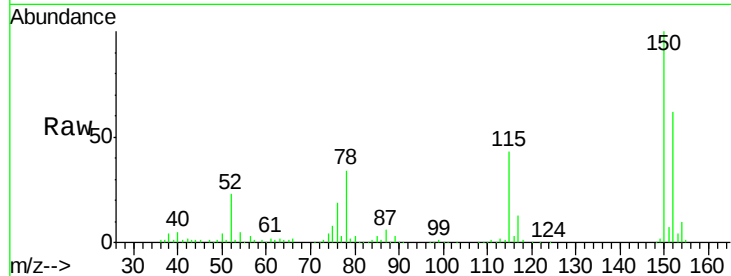


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.78 min Scan# 798  
 Delta R.T. -0.01 min  
 Lab File: BF097689.D  
 Acq: 15 Aug 2017 14:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-B-COMP

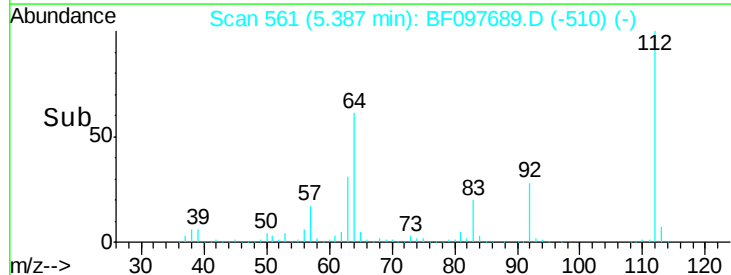
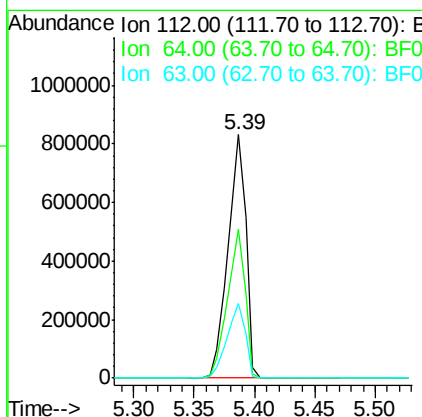
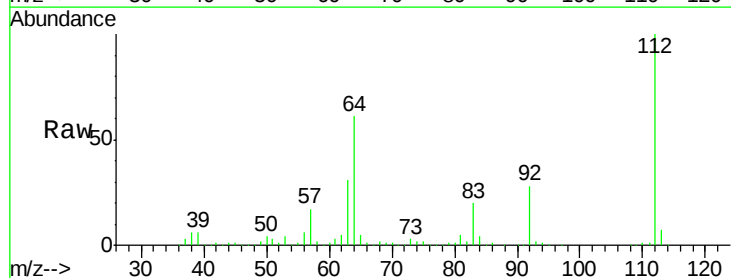
Tgt Ion:152 Resp: 130264  
 Ion Ratio Lower Upper  
 152 100  
 150 160.2 126.2 189.2  
 115 68.5 52.2 78.2

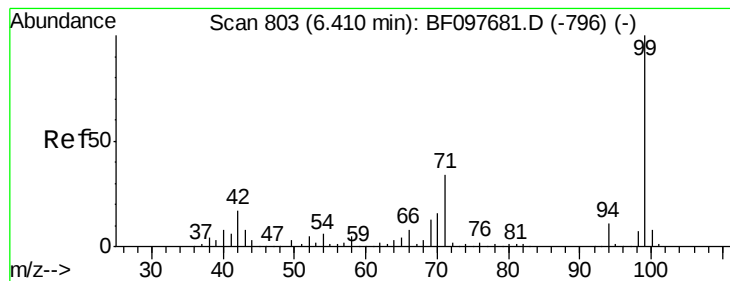


#5

2-Fluorophenol  
 Concen: 100.048 ng  
 RT: 5.39 min Scan# 561  
 Delta R.T. 0.00 min  
 Lab File: BF097689.D  
 Acq: 15 Aug 2017 14:21

Tgt Ion:112 Resp: 856803  
 Ion Ratio Lower Upper  
 112 100  
 64 61.0 46.0 69.0  
 63 30.9 23.4 35.0





#7

Phenol-d6

Concen: 100.894 ng

RT: 6.41 min Scan# 735

Delta R.T. 0.00 min

Lab File: BF097689.D

Acq: 15 Aug 2017 14:21

Instrument :

BNA\_F

ClientSampleId :

SP-B-COMP

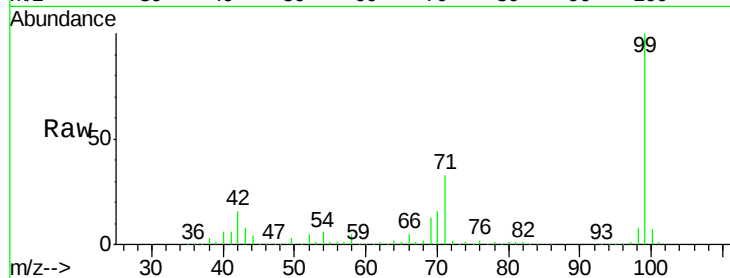
Tgt Ion: 99 Resp: 1173993

Ion Ratio Lower Upper

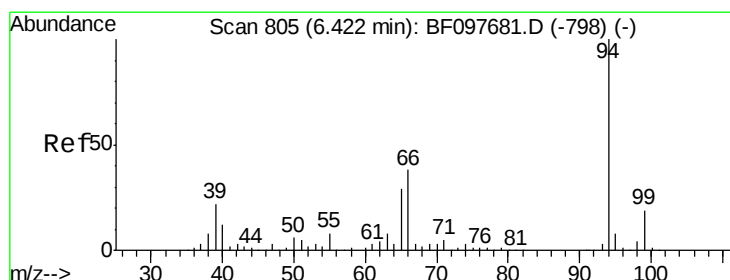
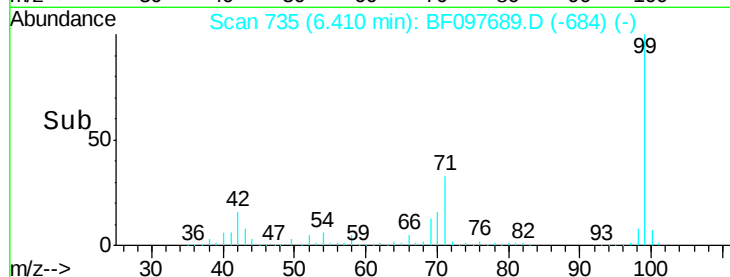
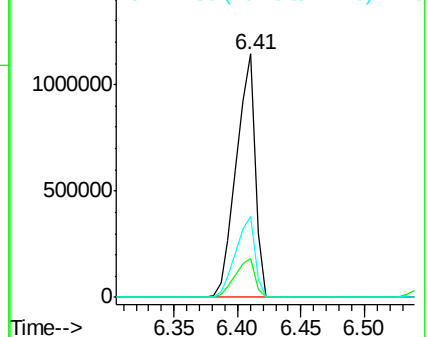
99 100

42 15.9 13.5 20.3

71 33.4 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: 2.562 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.01 min

Lab File: BF097689.D

Acq: 15 Aug 2017 14:21

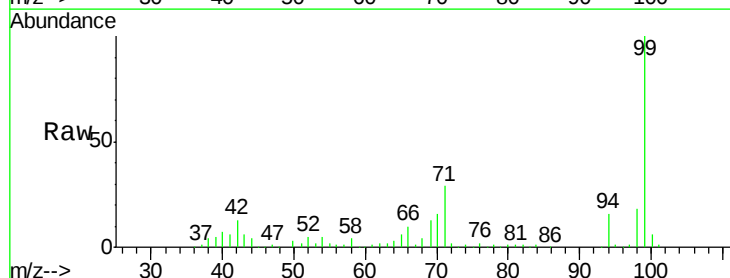
Tgt Ion: 94 Resp: 34870

Ion Ratio Lower Upper

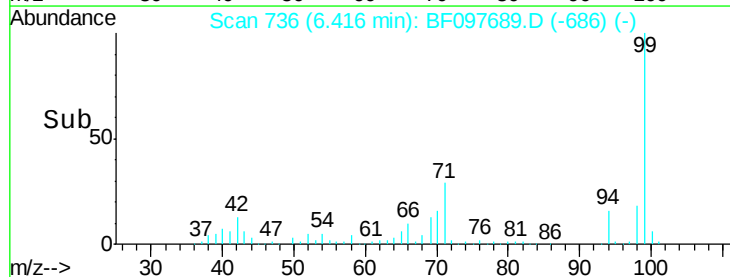
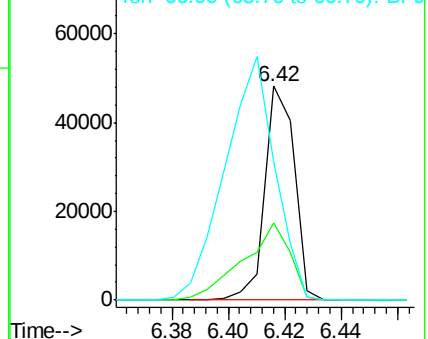
94 100

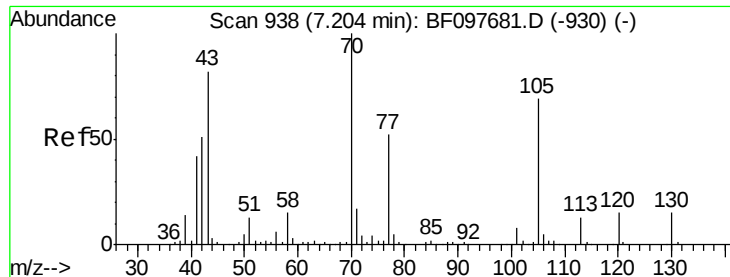
65 36.0 9.9 49.9

66 64.9 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

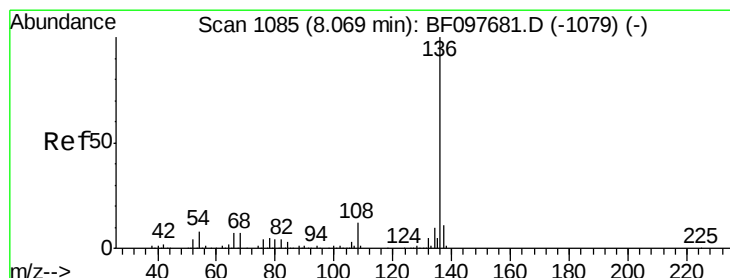
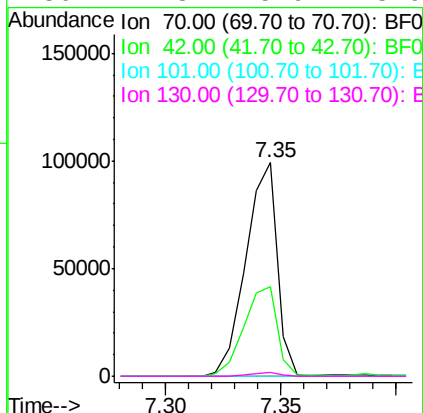
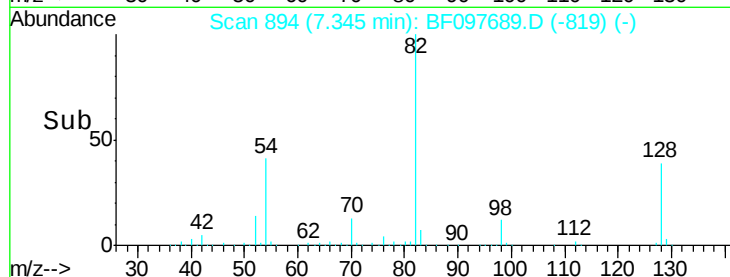
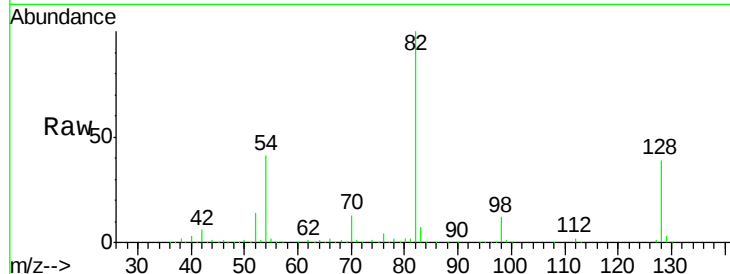




#19  
n-Nitroso-di-n-propylamine  
Concen: 11.876 ng  
RT: 7.35 min Scan# 894  
Delta R.T. 0.14 min  
Lab File: BF097689.D  
Acq: 15 Aug 2017 14:21

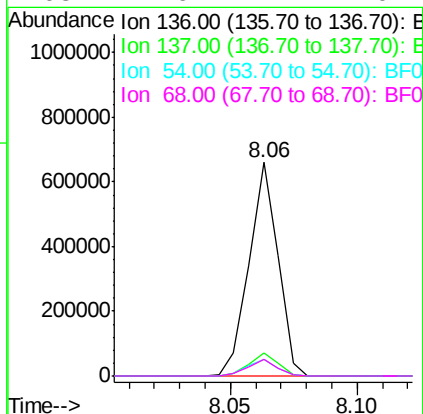
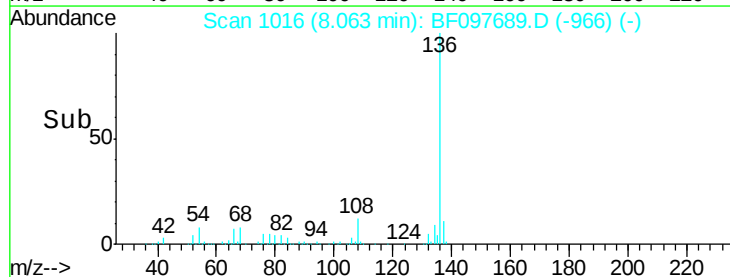
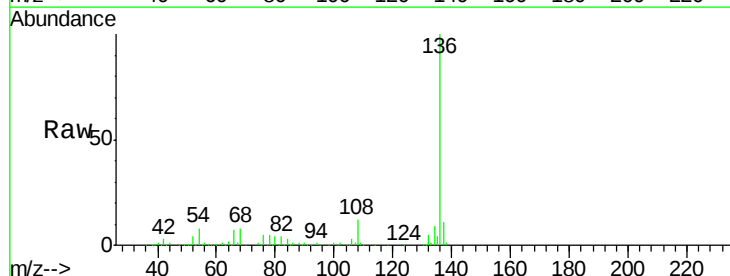
Instrument :  
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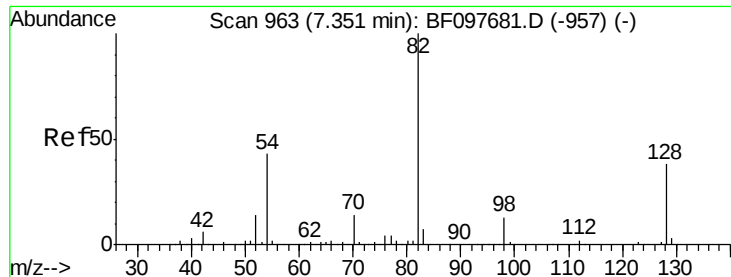
Tgt Ion: 70 Resp: 94598  
Ion Ratio Lower Upper  
70 100  
42 42.1 47.2 70.8#  
101 0.0 7.2 10.8#  
130 1.8 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.06 min Scan# 1016  
Delta R.T. -0.01 min  
Lab File: BF097689.D  
Acq: 15 Aug 2017 14:21

Tgt Ion: 136 Resp: 525004  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.5 12.7  
54 7.8 4.9 7.3#  
68 7.6 4.1 6.1#

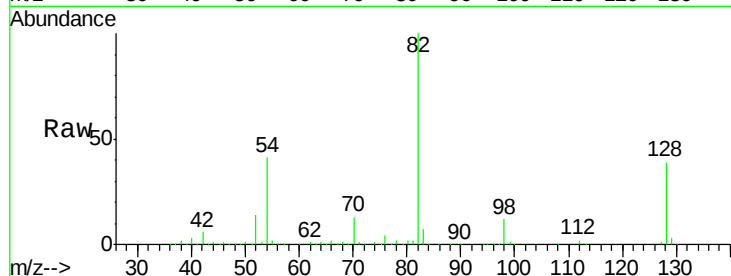




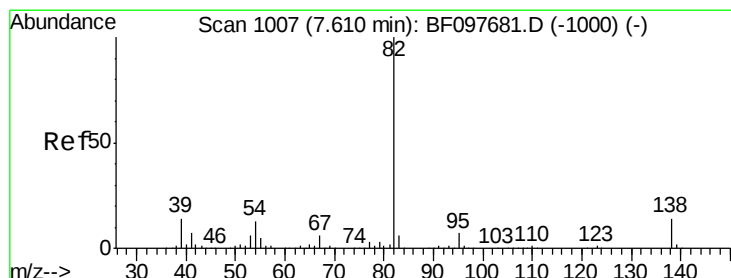
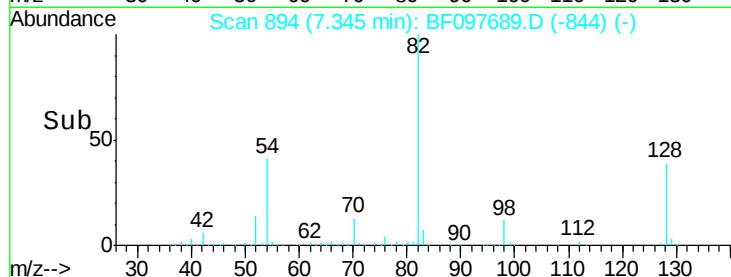
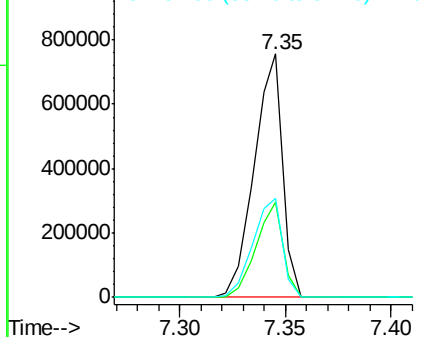
#23  
 Nitrobenzene-d5  
 Concen: 72.754 ng  
 RT: 7.35 min Scan# 894  
 Delta R.T. -0.01 min  
 Lab File: BF097689.D  
 Acq: 15 Aug 2017 14:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
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Tgt Ion: 82 Resp: 703111  
 Ion Ratio Lower Upper  
 82 100  
 128 39.2 34.0 51.0  
 54 40.9 42.2 63.2#

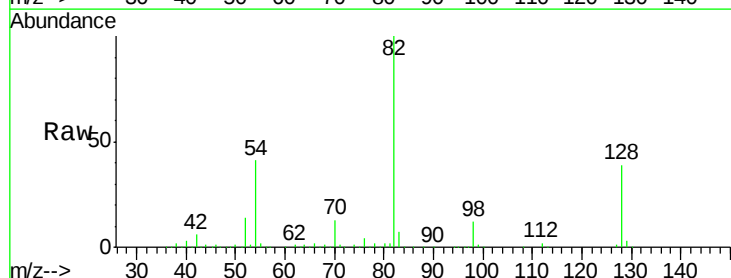


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

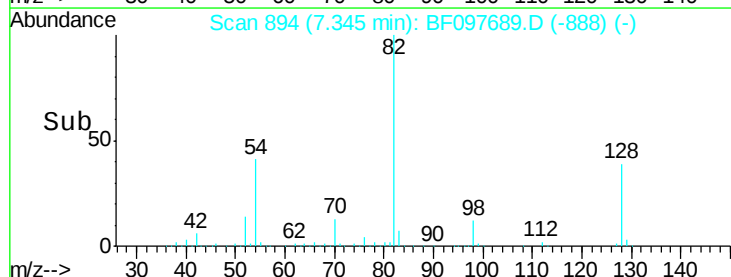
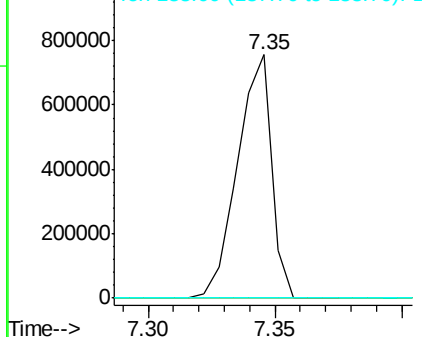


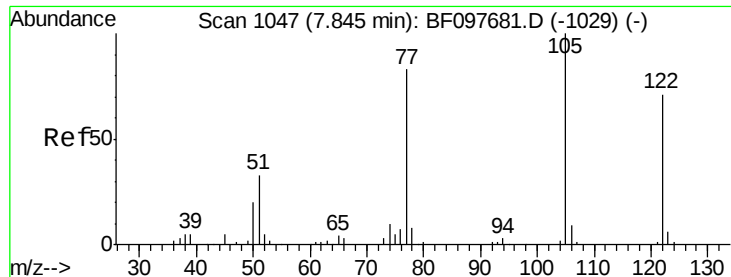
#25  
 Isophorone  
 Concen: 34.977 ng  
 RT: 7.35 min Scan# 894  
 Delta R.T. -0.26 min  
 Lab File: BF097689.D  
 Acq: 15 Aug 2017 14:21

Tgt Ion: 82 Resp: 702882  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.3 7.9#  
 138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 95.00 (94.70 to 95.70): BF0  
 Ion 138.00 (137.70 to 138.70): BF0

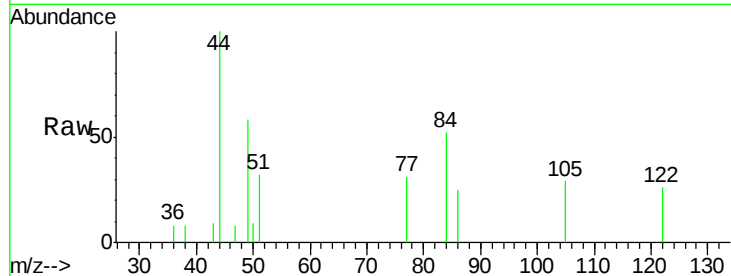




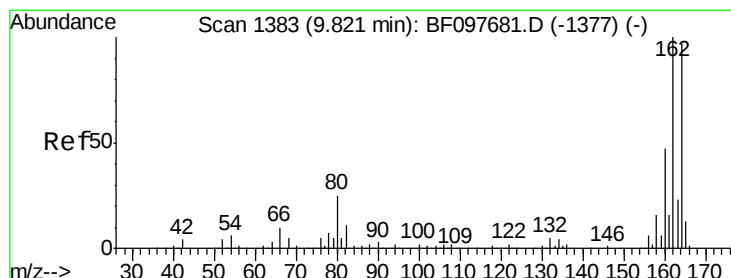
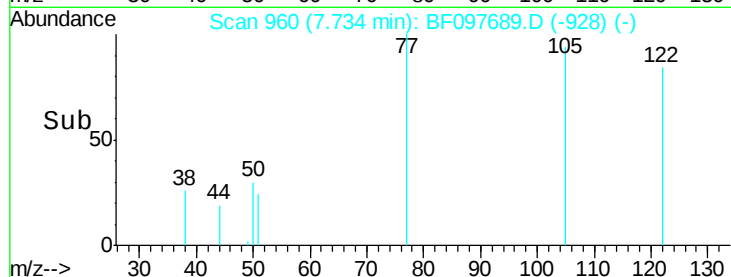
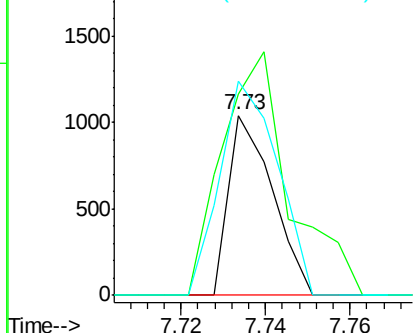
#32  
Benzoic acid  
Concen: 6.511 ng  
RT: 7.73 min Scan# 960  
Delta R.T. -0.11 min  
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Tgt Ion:122 Resp: 751  
Ion Ratio Lower Upper  
122 100  
105 112.2 103.3 143.3  
77 119.3 73.7 113.7#

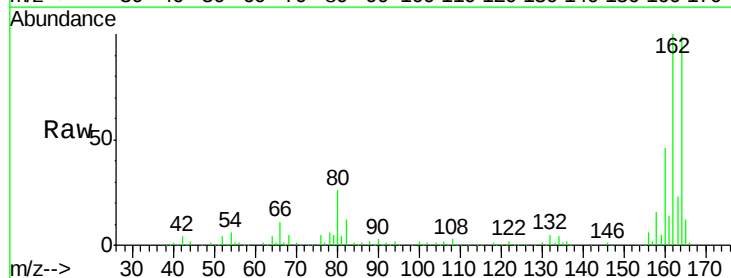


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BFO

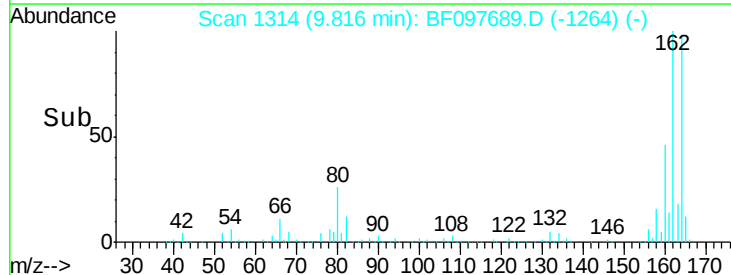
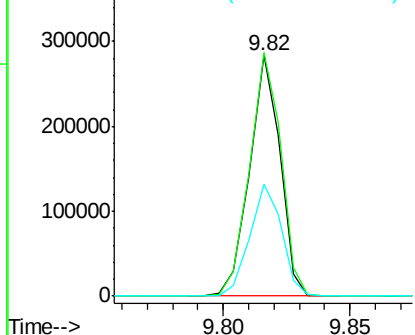


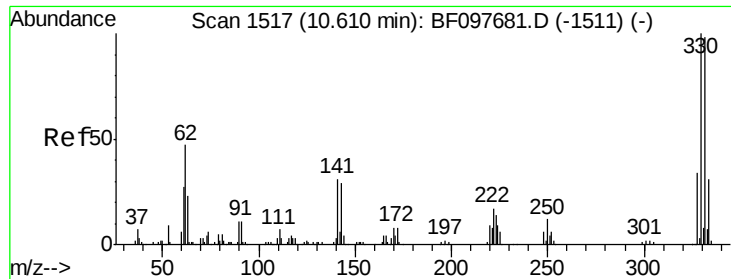
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.82 min Scan# 1314  
Delta R.T. -0.01 min  
Lab File: BF097689.D  
Acq: 15 Aug 2017 14:21

Tgt Ion:164 Resp: 237630  
Ion Ratio Lower Upper  
164 100  
162 101.2 82.6 123.8  
160 46.6 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: 107.659 ng

RT: 10.60 min Scan# 1448

Delta R.T. -0.01 min

Lab File: BF097689.D

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ClientSampleId :

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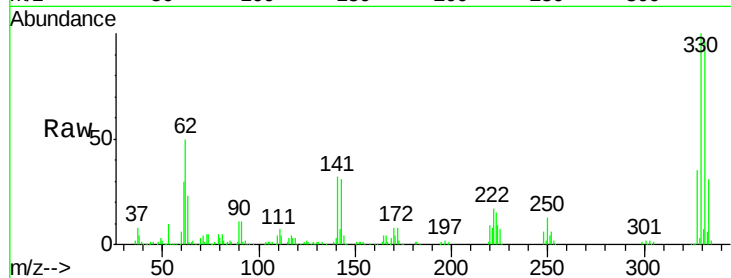
Tgt Ion:330 Resp: 221974

Ion Ratio Lower Upper

330 100

332 96.2 76.6 115.0

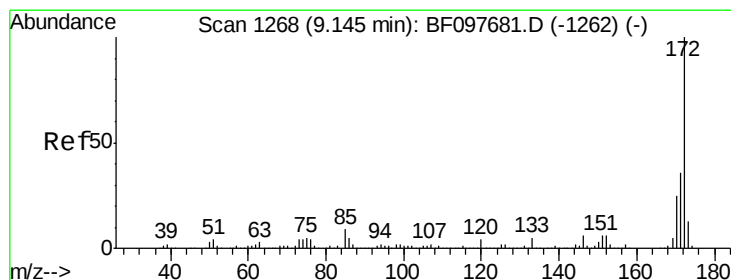
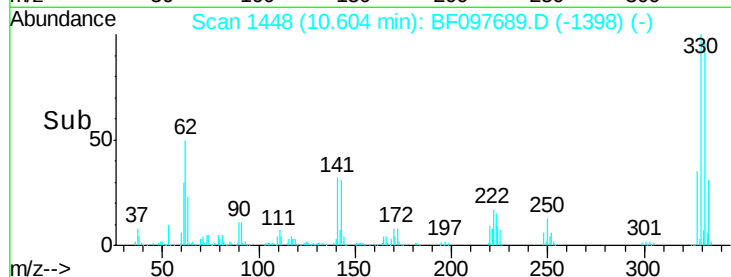
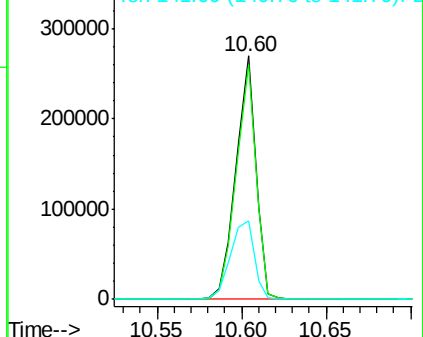
141 38.6 31.4 47.2



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: 60.340 ng

RT: 9.15 min Scan# 1200

Delta R.T. 0.00 min

Lab File: BF097689.D

Acq: 15 Aug 2017 14:21

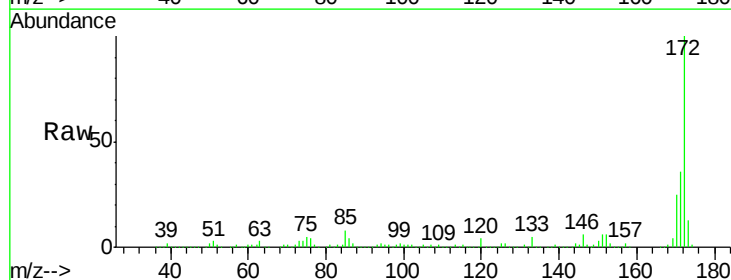
Tgt Ion:172 Resp: 975940

Ion Ratio Lower Upper

172 100

171 36.2 29.6 44.4

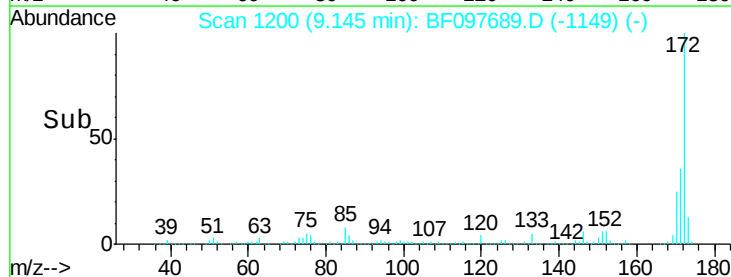
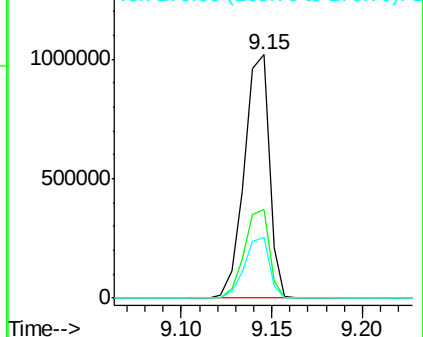
170 24.8 19.8 29.8

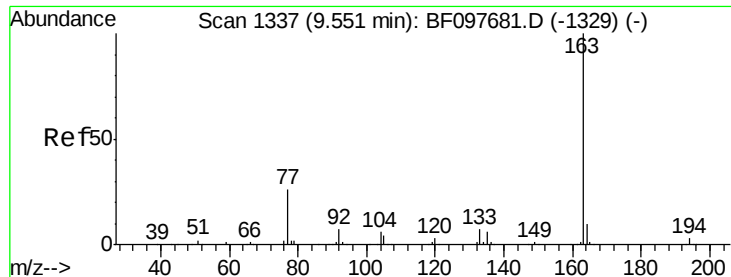


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

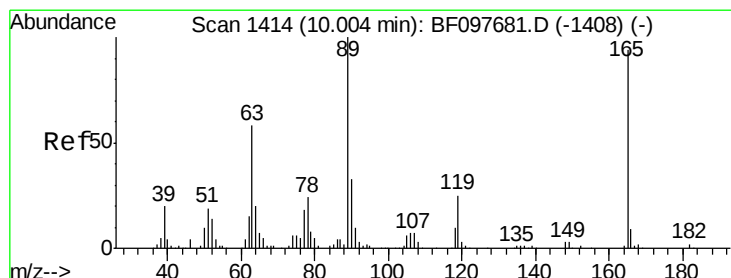
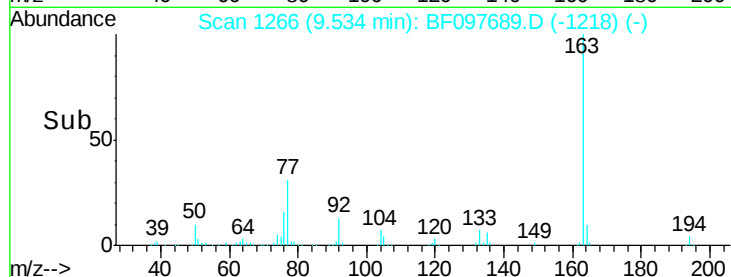
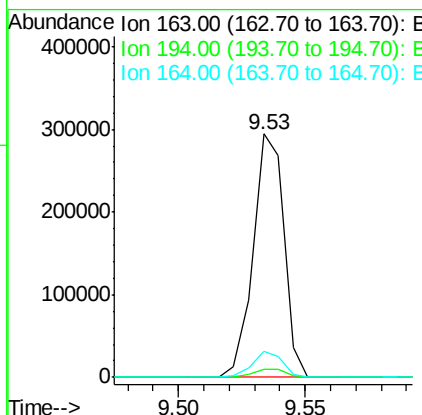
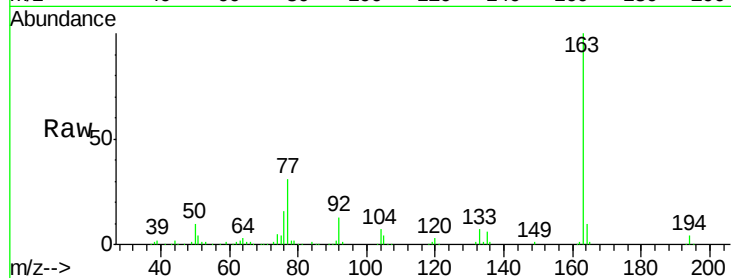




#49  
Dimethylphthalate  
Concen: 14.360 ng  
RT: 9.53 min Scan# 1266  
Delta R.T. -0.02 min  
Lab File: BF097689.D  
Acq: 15 Aug 2017 14:21

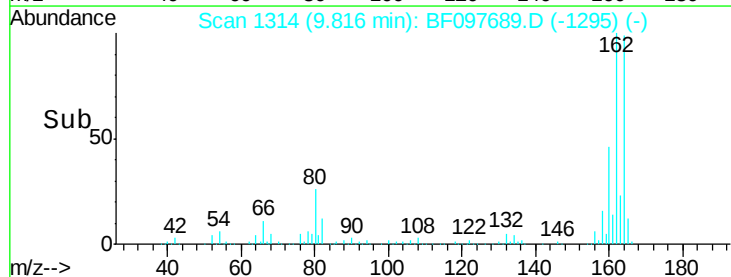
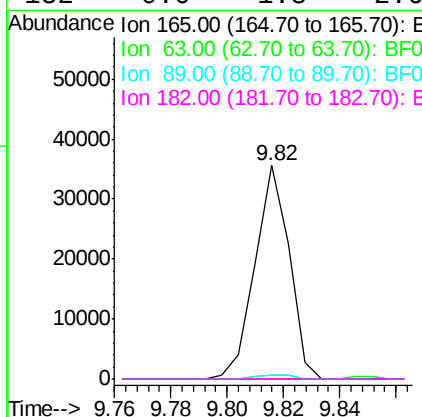
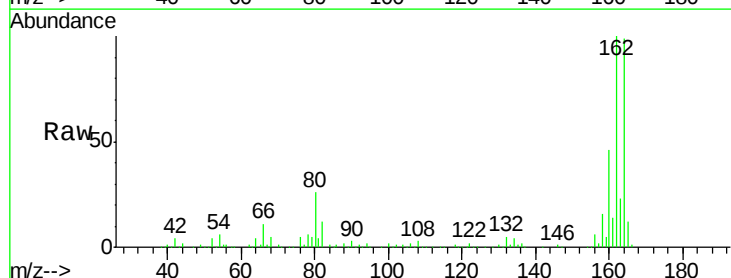
Instrument :  
BNA\_F  
ClientSampleId :  
SP-B-COMP

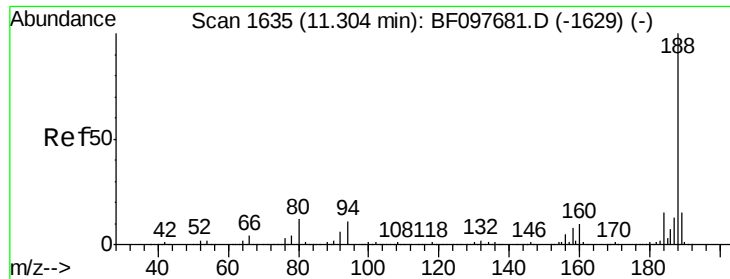
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.5   | 2.6   | 4.0   |
| 164     | 10.5  | 8.4   | 12.6  |



#56  
2,4-Dinitrotoluene  
Concen: 6.897 ng  
RT: 9.82 min Scan# 1314  
Delta R.T. -0.19 min  
Lab File: BF097689.D  
Acq: 15 Aug 2017 14:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.1   | 25.4  | 38.0# |
| 89      | 2.0   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

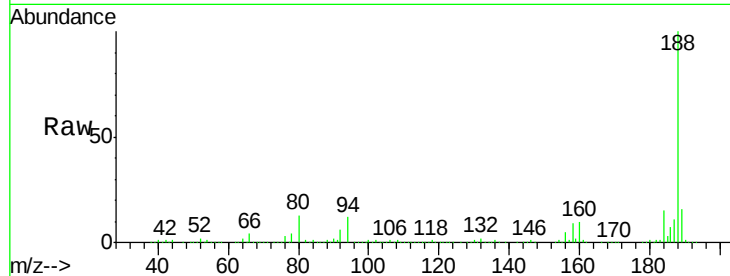




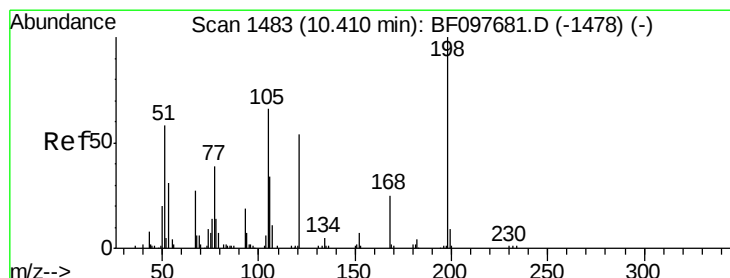
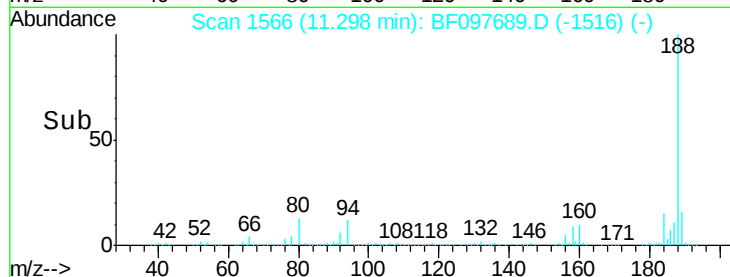
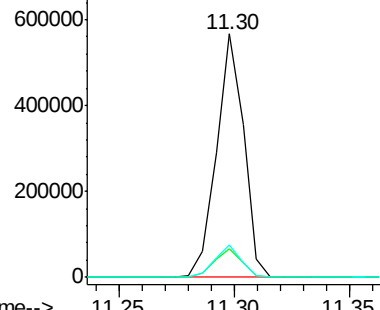
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.30 min Scan# 1566  
 Delta R.T. -0.01 min  
 Lab File: BF097689.D  
 Acq: 15 Aug 2017 14:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-B-COMP

Tgt Ion:188 Resp: 467775  
 Ion Ratio Lower Upper  
 188 100  
 94 11.9 9.4 14.2  
 80 13.1 10.2 15.2

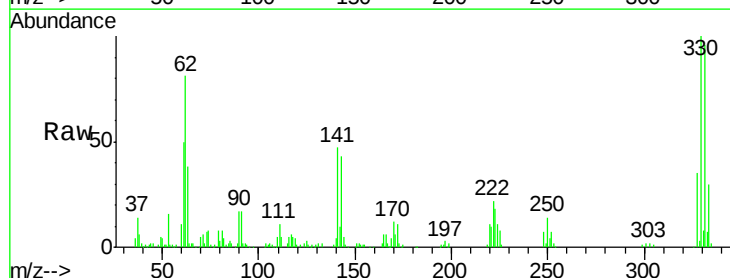


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

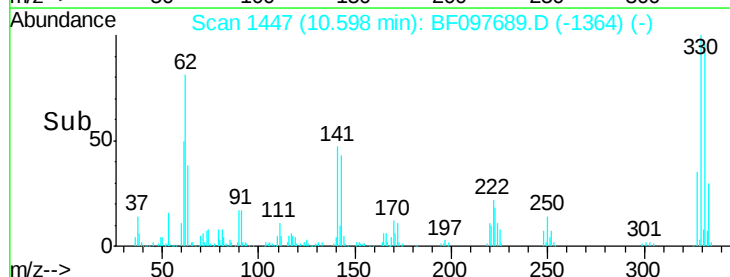
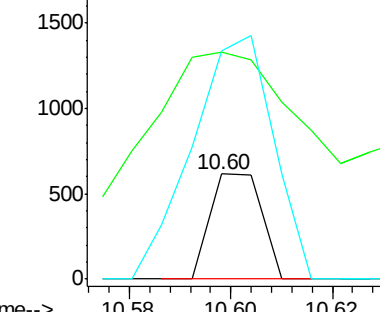


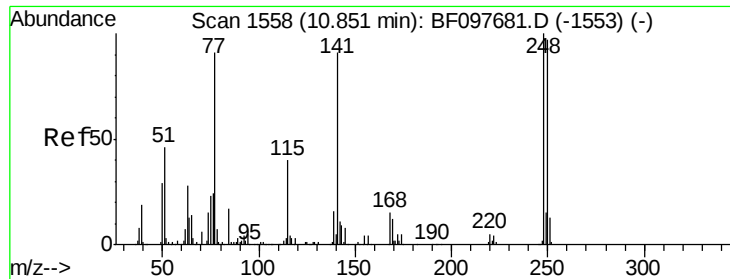
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.483 ng  
 RT: 10.60 min Scan# 1447  
 Delta R.T. 0.19 min  
 Lab File: BF097689.D  
 Acq: 15 Aug 2017 14:21

Tgt Ion:198 Resp: 433  
 Ion Ratio Lower Upper  
 198 100  
 51 216.3 53.2 93.2#  
 105 217.9 45.8 85.8#



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

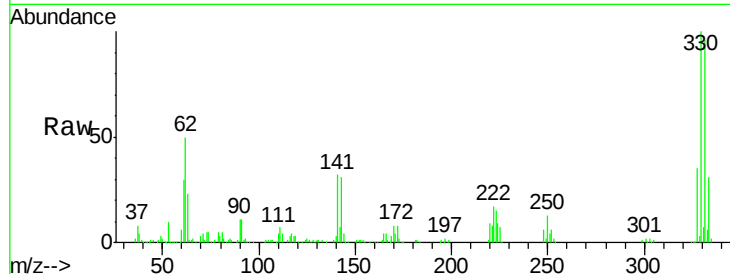




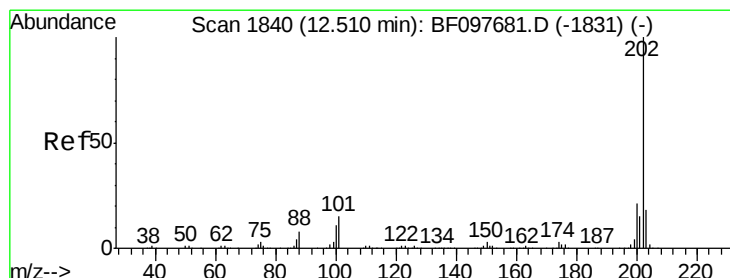
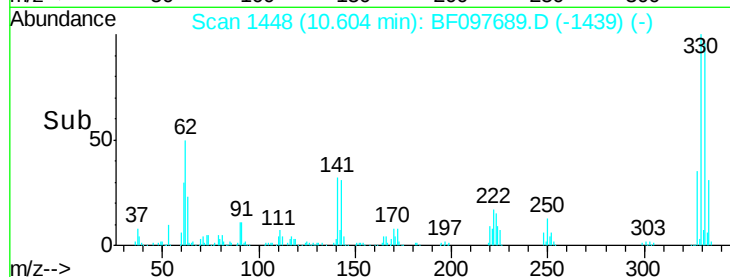
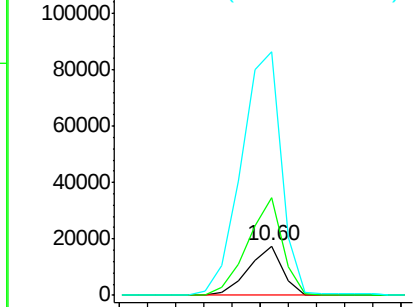
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.988 ng  
 RT: 10.60 min Scan# 1448  
 Delta R.T. -0.25 min  
 Lab File: BF097689.D  
 Acq: 15 Aug 2017 14:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-B-COMP

Tgt Ion:248 Resp: 14514  
 Ion Ratio Lower Upper  
 248 100  
 250 197.7 76.8 115.2#  
 141 495.3 68.6 103.0#

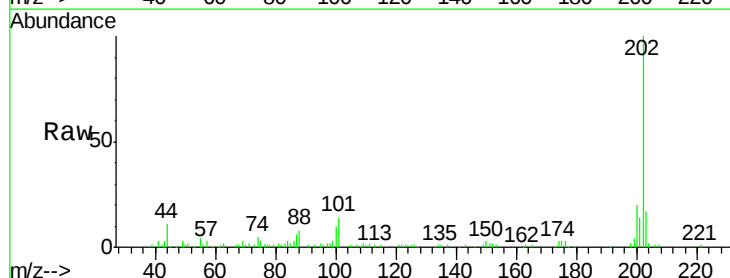


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

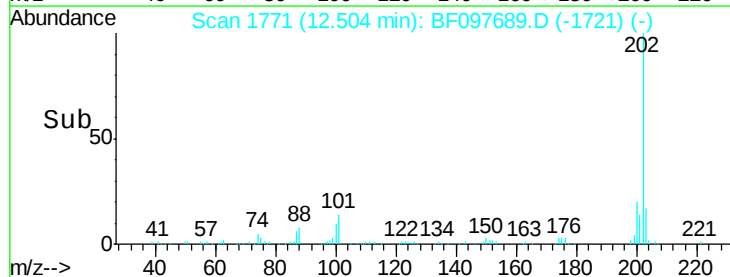
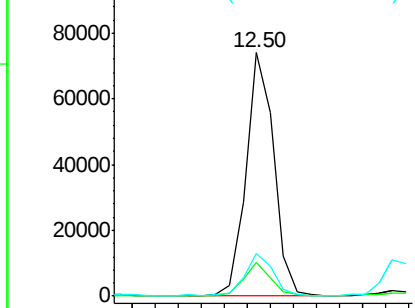


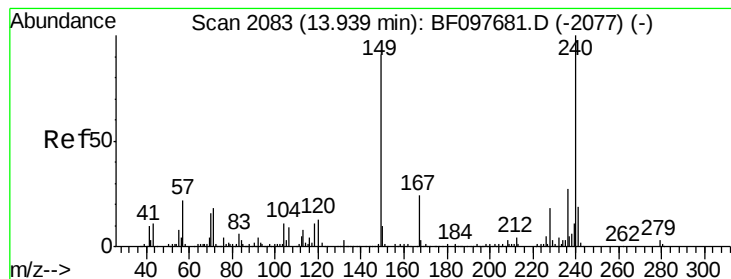
#74  
 Fluoranthene  
 Concen: 2.383 ng  
 RT: 12.50 min Scan# 1771  
 Delta R.T. -0.01 min  
 Lab File: BF097689.D  
 Acq: 15 Aug 2017 14:21

Tgt Ion:202 Resp: 61993  
 Ion Ratio Lower Upper  
 202 100  
 101 14.0 0.0 33.2  
 203 17.4 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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.93 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BF097689.D

Acq: 15 Aug 2017 14:21

Instrument :

BNA\_F

ClientSampleId :

SP-B-COMP

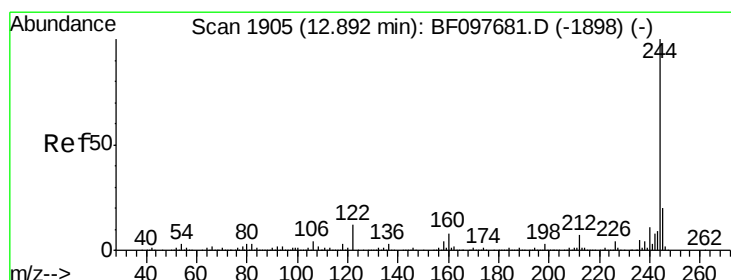
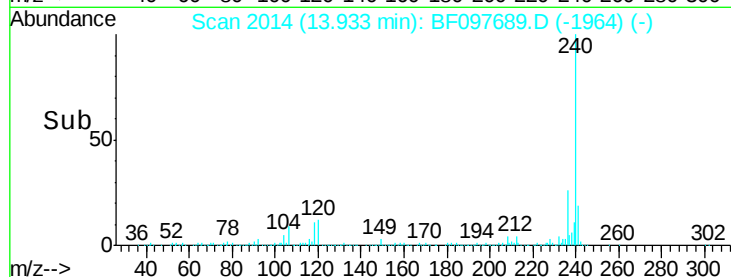
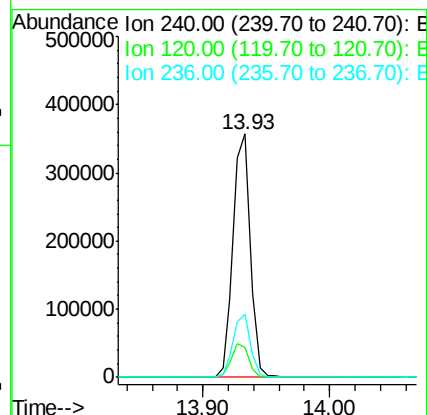
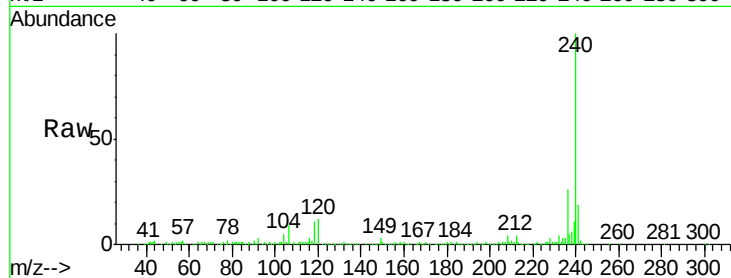
Tgt Ion:240 Resp: 337766

Ion Ratio Lower Upper

240 100

120 12.4 5.8 8.8#

236 25.7 20.5 30.7



#78

Terphenyl-d14

Concen: 55.910 ng

RT: 12.89 min Scan# 1837

Delta R.T. 0.00 min

Lab File: BF097689.D

Acq: 15 Aug 2017 14:21

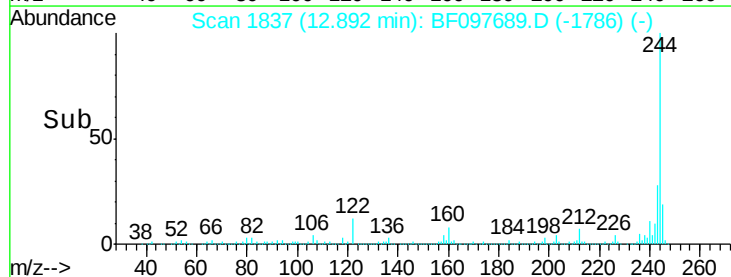
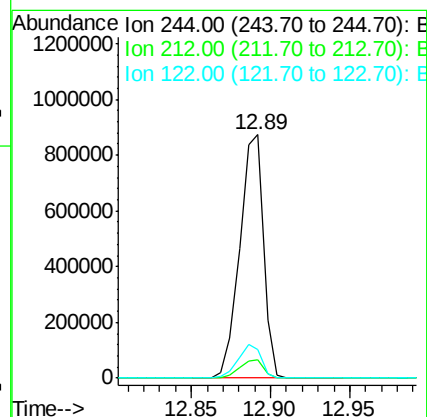
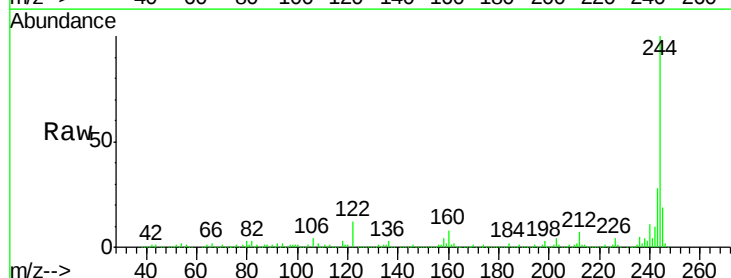
Tgt Ion:244 Resp: 905582

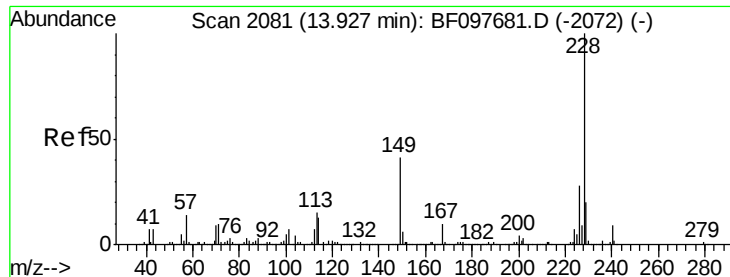
Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

122 11.9 10.3 15.5





#80

Benzo(a)anthracene

Concen: 2.075 ng

RT: 13.96 min Scan# 2018

Delta R.T. 0.03 min

Lab File: BF097689.D

Acq: 15 Aug 2017 14:21

Instrument :

BNA\_F

ClientSampleId :

SP-B-COMP

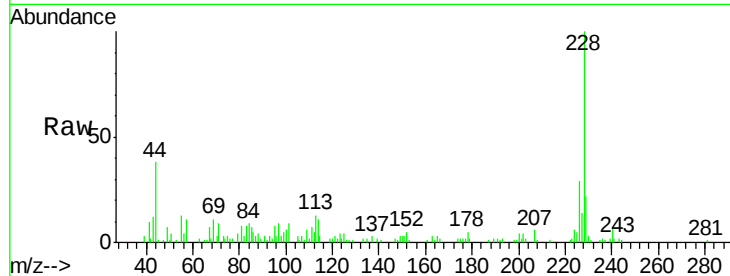
Tgt Ion:228 Resp: 41998

Ion Ratio Lower Upper

228 100

226 29.5 22.6 33.8

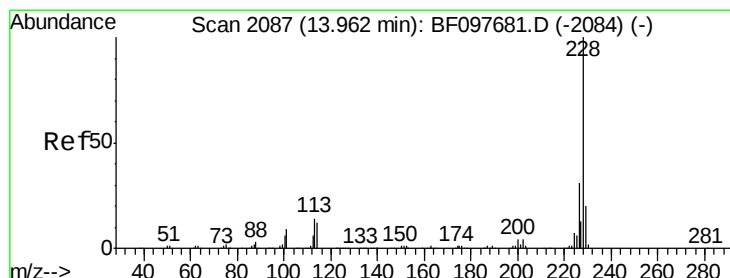
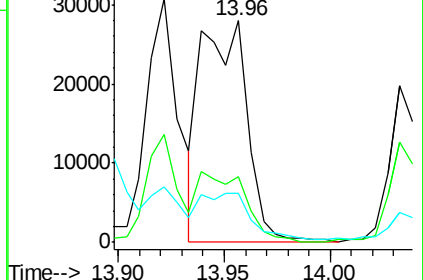
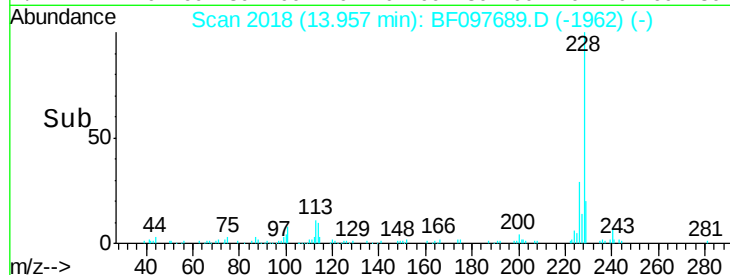
229 22.3 16.3 24.5



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



#82

Chrysene

Concen: 2.086 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BF097689.D

Acq: 15 Aug 2017 14:21

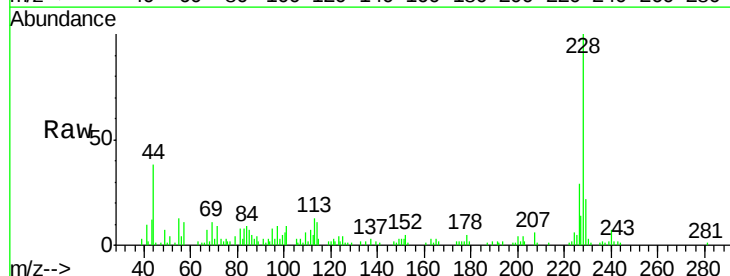
Tgt Ion:228 Resp: 41998

Ion Ratio Lower Upper

228 100

226 29.5 24.9 37.3

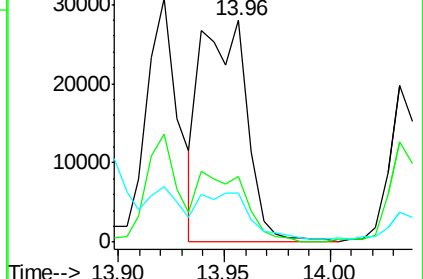
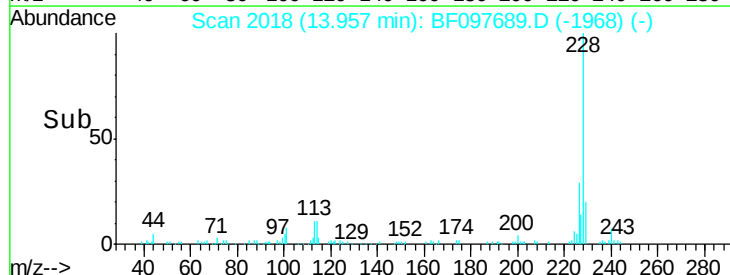
229 22.3 15.8 23.6

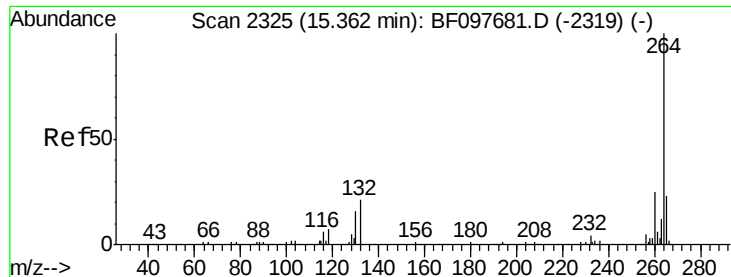


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.36 min Scan# 2257

Delta R.T. 0.00 min

Lab File: BF097689.D

Acq: 15 Aug 2017 14:21

Instrument :

BNA\_F

ClientSampleId :

SP-B-COMP

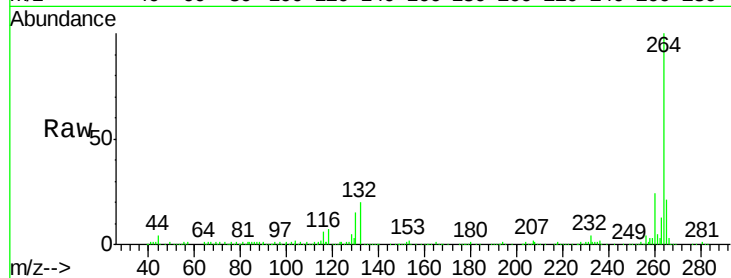
Tgt Ion:264 Resp: 260038

Ion Ratio Lower Upper

264 100

260 24.4 19.5 29.3

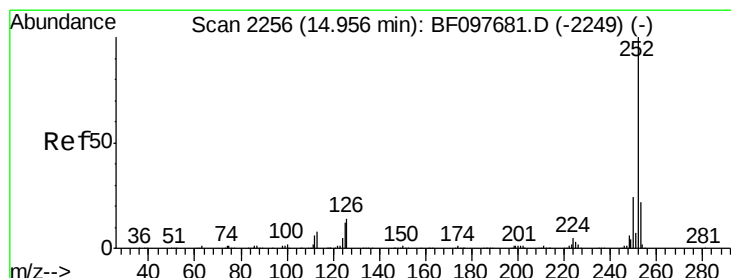
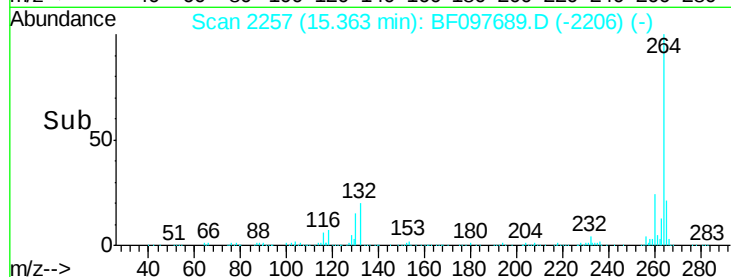
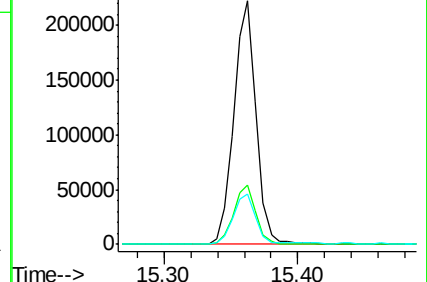
265 20.8 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 9.675 ng

RT: 14.95 min Scan# 2187

Delta R.T. -0.01 min

Lab File: BF097689.D

Acq: 15 Aug 2017 14:21

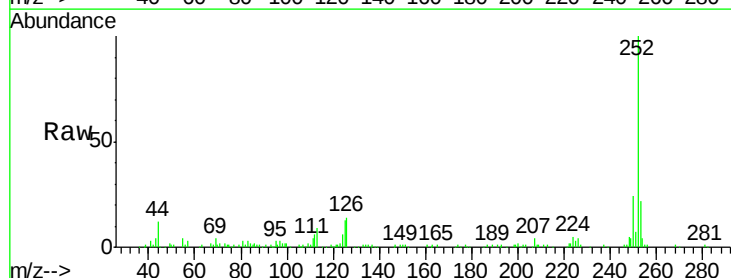
Tgt Ion:252 Resp: 158584

Ion Ratio Lower Upper

252 100

253 22.4 18.1 27.1

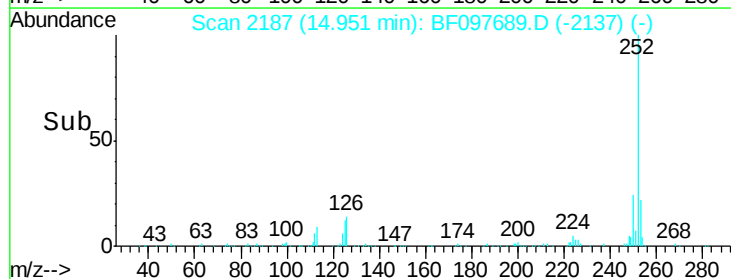
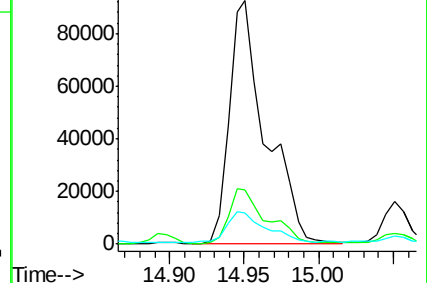
125 12.9 9.8 14.8

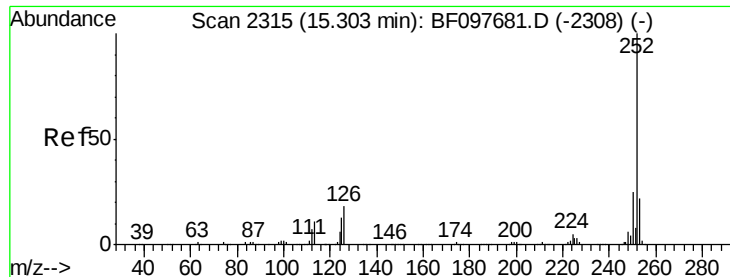


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 4.493 ng

RT: 15.30 min Scan# 2246

Delta R.T. -0.01 min

Lab File: BF097689.D

Acq: 15 Aug 2017 14:21

Instrument :

BNA\_F

ClientSampleId :

SP-B-COMP

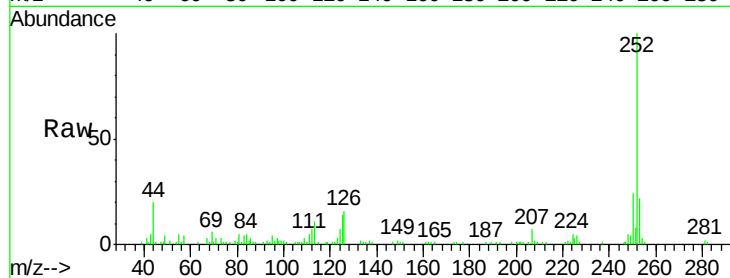
Tgt Ion:252 Resp: 65199

Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

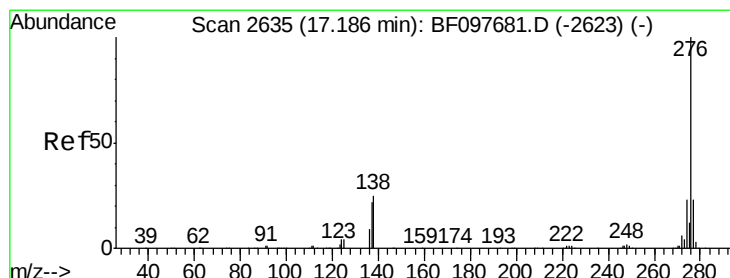
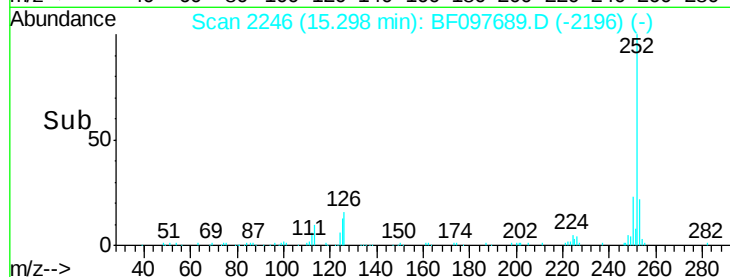
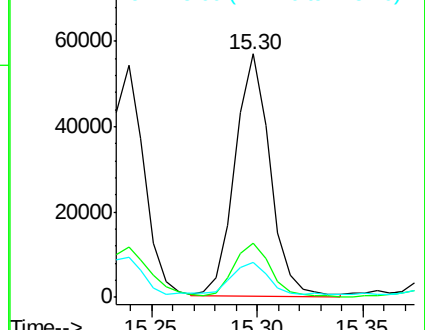
125 14.2 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 2.568 ng

RT: 17.16 min Scan# 2563

Delta R.T. -0.02 min

Lab File: BF097689.D

Acq: 15 Aug 2017 14:21

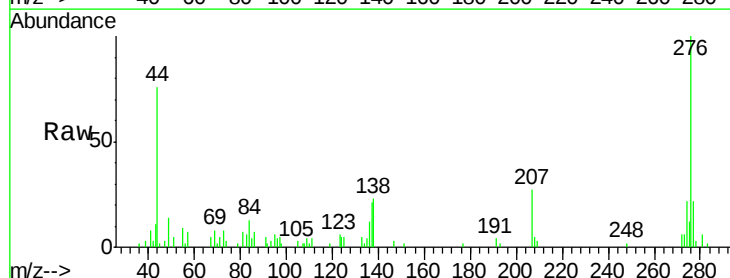
Tgt Ion:276 Resp: 31650

Ion Ratio Lower Upper

276 100

277 21.8 18.6 28.0

138 23.2 25.4 38.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

