

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\  
 Data File : BF097193.D  
 Acq On : 29 Jul 2017 10:00  
 Operator : SJ/JU  
 Sample : I4421-11MS  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS5-BASEMS

Quant Time: Jul 31 01:00:45 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

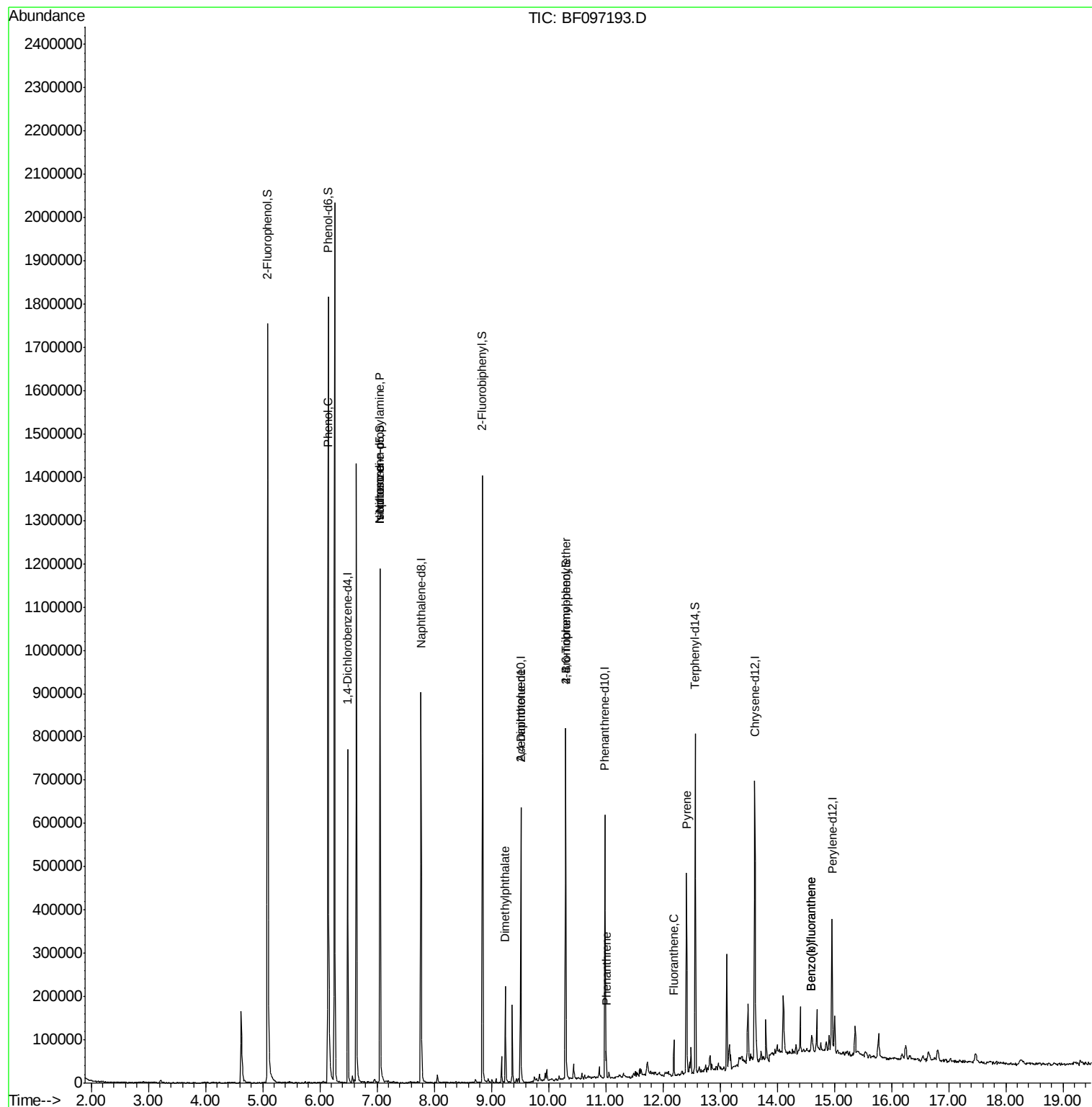
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.49  | 152  | 106564   | 20.00 | ng    | -0.01     |
| 21) Naphthalene-d8             | 7.77  | 136  | 380388   | 20.00 | ng    | -0.02     |
| 38) Acenaphthene-d10           | 9.52  | 164  | 121005   | 20.00 | ng    | -0.02     |
| 63) Phenanthrene-d10           | 10.99 | 188  | 198137   | 20.00 | ng    | -0.02     |
| 75) Chrysene-d12               | 13.61 | 240  | 194371   | 20.00 | ng    | -0.02     |
| 86) Perylene-d12               | 14.96 | 264  | 127038   | 20.00 | ng    | -0.01     |
| System Monitoring Compounds    |       |      |          |       |       |           |
| 5) 2-Fluorophenol              | 5.09  | 112  | 544300   | 77.00 | ng    | -0.01     |
| 7) Phenol-d6                   | 6.15  | 99   | 609528   | 75.53 | ng    | -0.02     |
| 23) Nitrobenzene-d5            | 7.05  | 82   | 355005   | 54.75 | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol       | 10.30 | 330  | 77926    | 81.51 | ng    | -0.02     |
| 44) 2-Fluorobiphenyl           | 8.85  | 172  | 409933   | 57.49 | ng    | -0.02     |
| 78) Terphenyl-d14              | 12.57 | 244  | 226864   | 23.80 | ng    | -0.02     |
| Target Compounds               |       |      |          |       |       |           |
| 10) Phenol                     | 6.16  | 94   | 22924    | 2.39  | ng    | Qvalue 80 |
| 19) n-Nitroso-di-n-propylamine | 7.05  | 70   | 45470    | 8.56  | ng    | # 84      |
| 25) Isophorone                 | 7.05  | 82   | 351060   | 27.65 | ng    | # 67      |
| 49) Dimethylphthalate          | 9.25  | 163  | 82039    | 8.93  | ng    | 100       |
| 56) 2,4-Dinitrotoluene         | 9.52  | 165  | 15987    | 7.14  | ng    | # 32      |
| 66) 4-Bromophenyl-phenylether  | 10.30 | 248  | 4659     | 2.36  | ng    | # 1       |
| 70) Phenanthrene               | 11.01 | 178  | 21235    | 2.00  | ng    | 100       |
| 74) Fluoranthene               | 12.19 | 202  | 30201    | 2.90  | ng    | 98        |
| 77) Pyrene                     | 12.42 | 202  | 33895    | 2.13  | ng    | 98        |
| 87) Benzo(b)fluoranthene       | 14.60 | 252  | 21567    | 2.82  | ng    | # 91      |
| 88) Benzo(k)fluoranthene       | 14.60 | 252  | 21567    | 2.96  | ng    | # 94      |

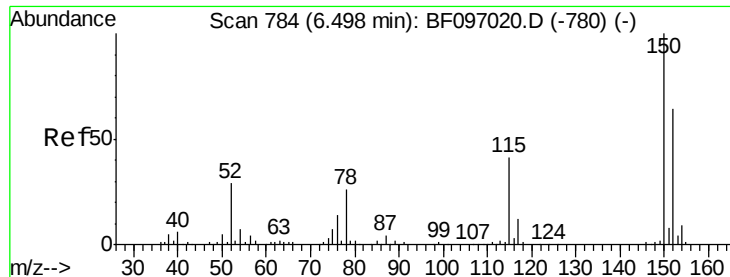
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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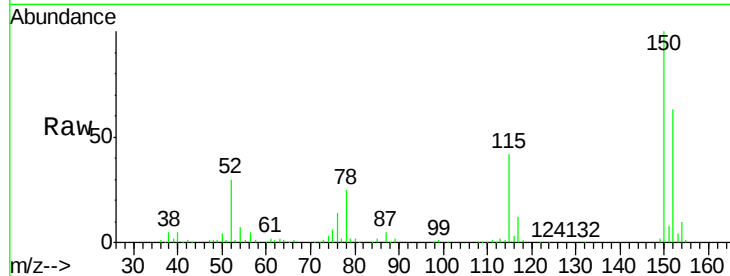


#1

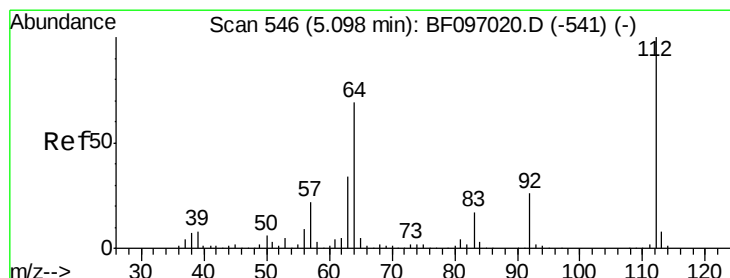
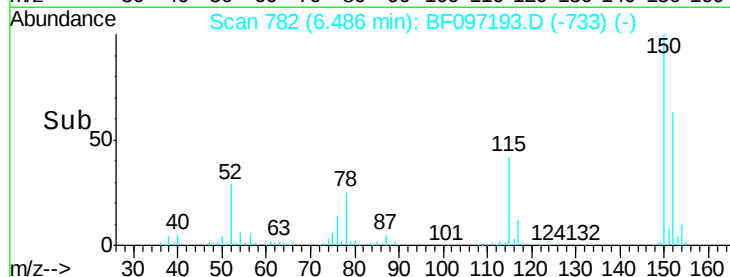
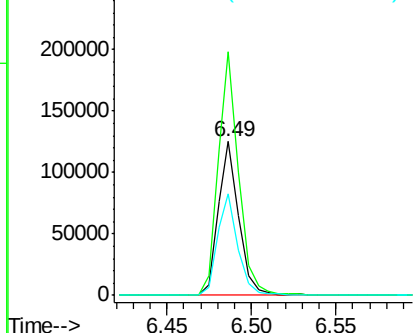
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.49 min Scan# 782  
Delta R.T. -0.01 min  
Lab File: BF097193.D  
Acq: 29 Jul 2017 10:00

Instrument :  
BNA\_F  
ClientSampleId :  
E2-HS5-BASEMS

Tot Ion:152 Resp: 106564  
Ion Ratio Lower Upper  
152 100  
150 158.5 126.2 189.2  
115 65.9 52.2 78.2



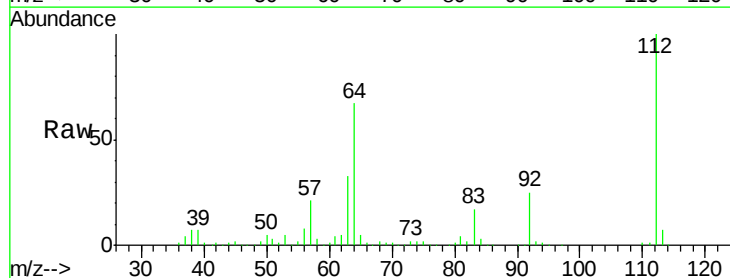
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



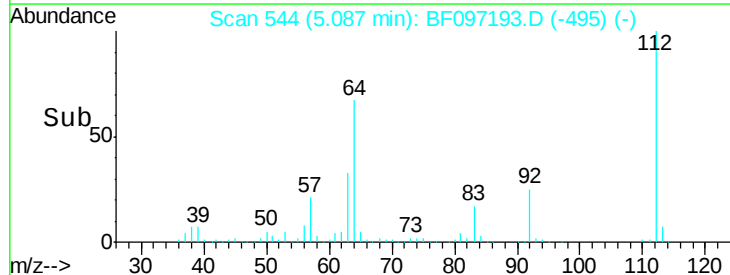
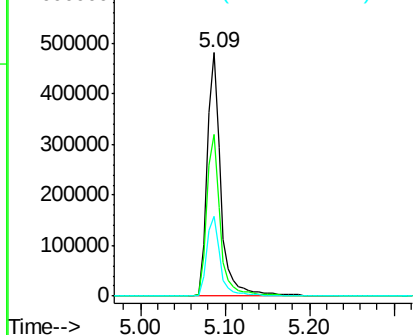
#5

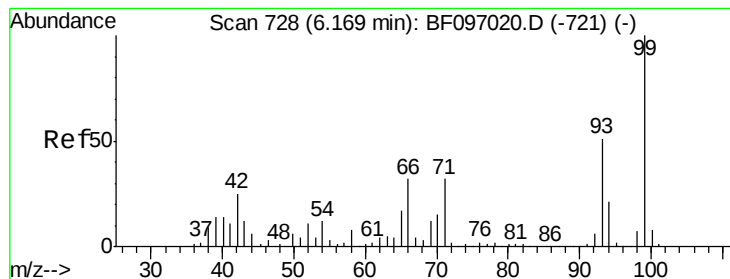
2-Fluorophenol  
Concen: 77.00 ng  
RT: 5.09 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: BF097193.D  
Acq: 29 Jul 2017 10:00

Tgt Ion:112 Resp: 544300  
Ion Ratio Lower Upper  
112 100  
64 66.6 46.0 69.0  
63 32.7 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: 75.53 ng

RT: 6.15 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF097193.D

Acq: 29 Jul 2017 10:00

Instrument :

BNA\_F

ClientSampleId :

E2-HS5-BASEMS

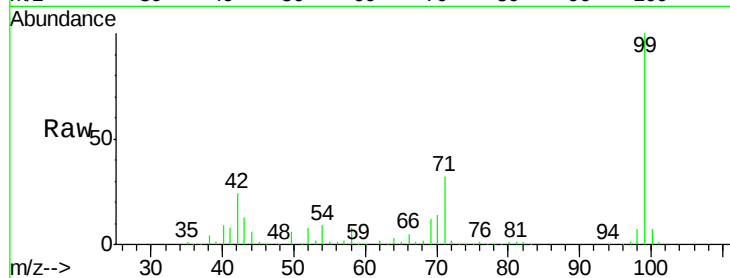
Tot Ion: 99 Resp: 609528

Ion Ratio Lower Upper

99 100

42 23.9 13.5 20.3#

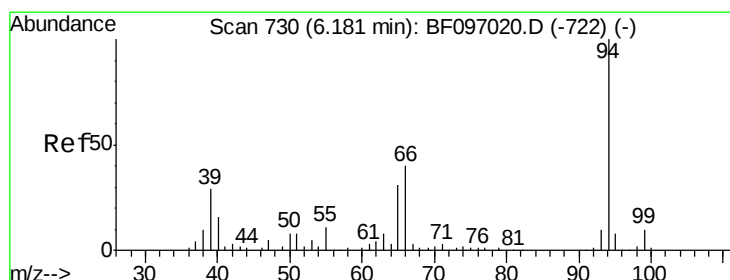
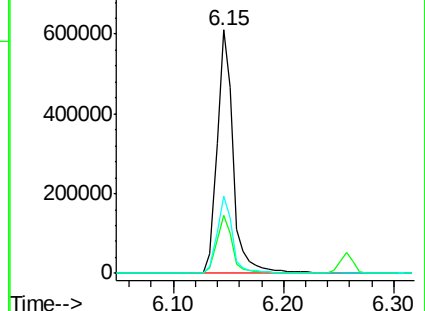
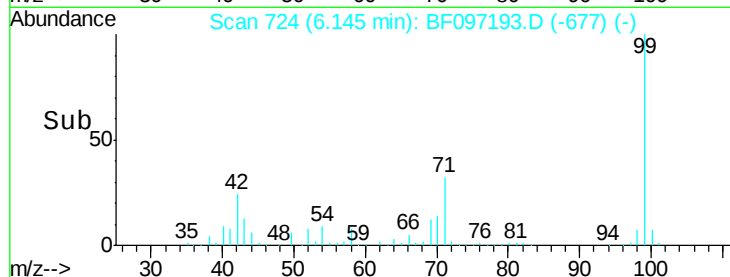
71 31.8 24.5 36.7



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: 2.39 ng

RT: 6.16 min Scan# 726

Delta R.T. -0.02 min

Lab File: BF097193.D

Acq: 29 Jul 2017 10:00

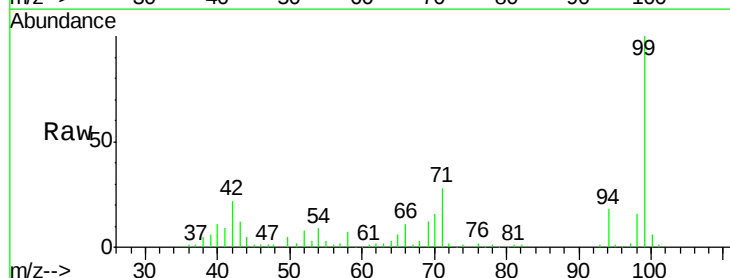
Tgt Ion: 94 Resp: 22924

Ion Ratio Lower Upper

94 100

65 34.6 9.9 49.9

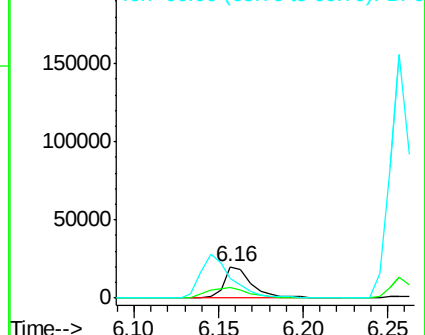
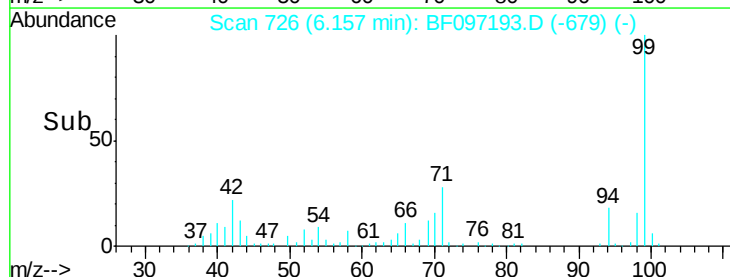
66 61.0 23.1 63.1

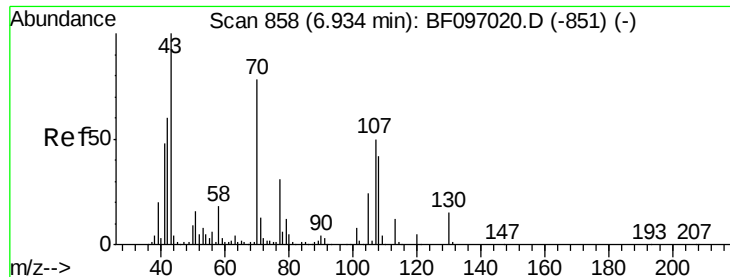


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

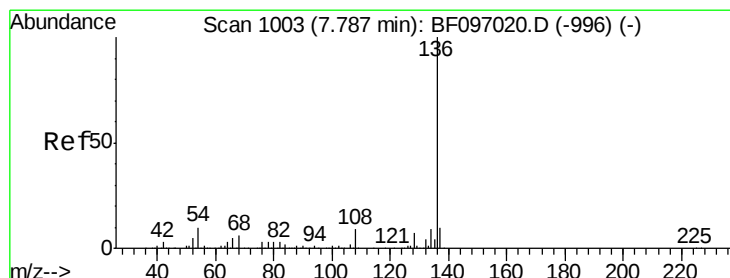
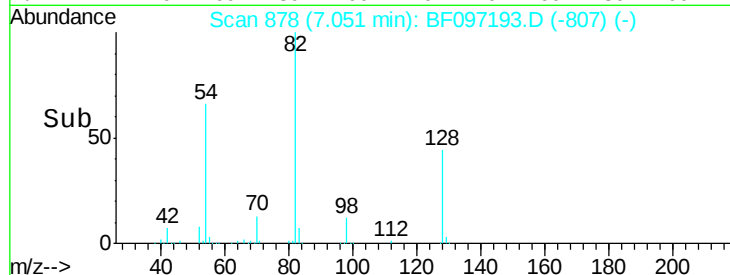
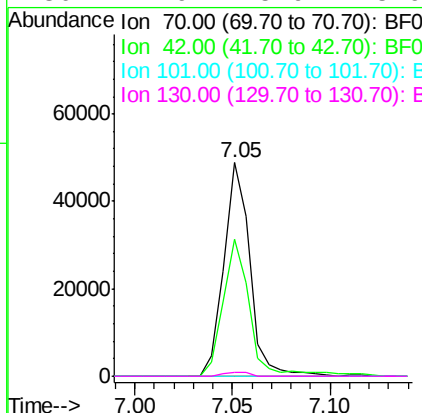
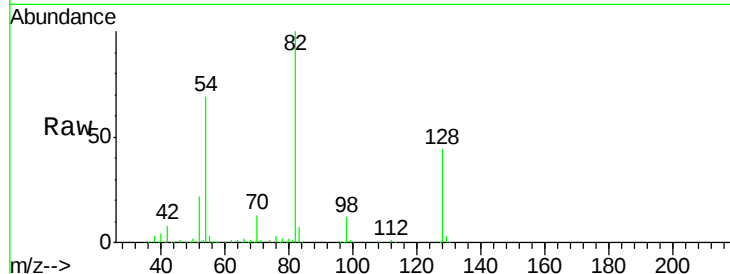




#19  
n-Nitroso-di-n-propylamine  
Concen: 8.56 ng  
RT: 7.05 min Scan# 878  
Delta R.T. 0.12 min  
Lab File: BF097193.D  
Acq: 29 Jul 2017 10:00

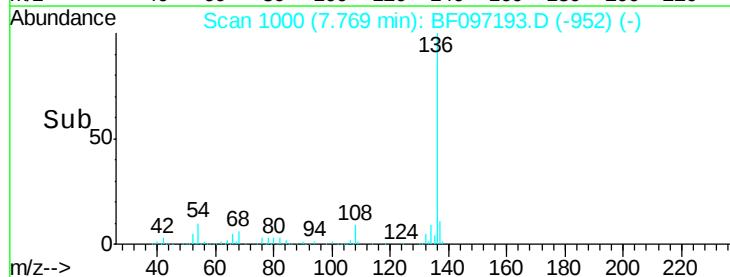
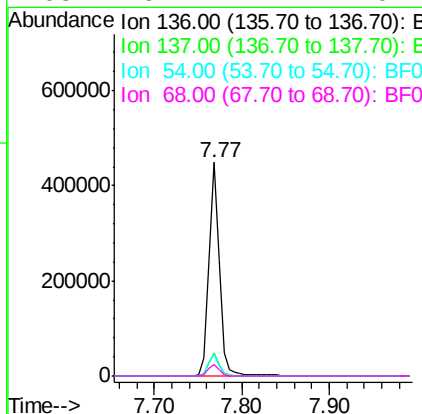
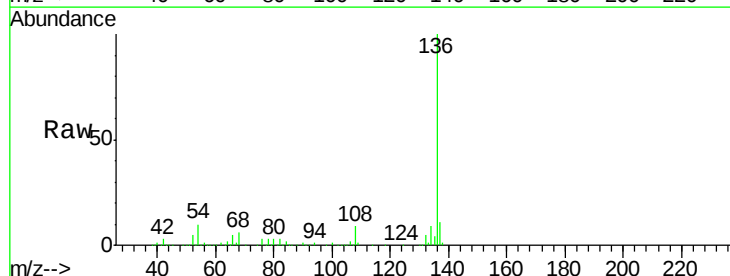
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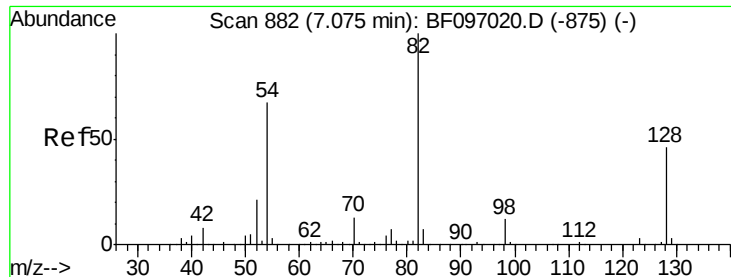
Tot Ion: 70 Resp: 45470  
Ion Ratio Lower Upper  
70 100  
42 64.1 47.2 70.8  
101 0.0 7.2 10.8#  
130 1.9 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.77 min Scan# 1000  
Delta R.T. -0.02 min  
Lab File: BF097193.D  
Acq: 29 Jul 2017 10:00

Tgt Ion:136 Resp: 380388  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.5 12.7  
54 10.2 4.9 7.3#  
68 5.7 4.1 6.1

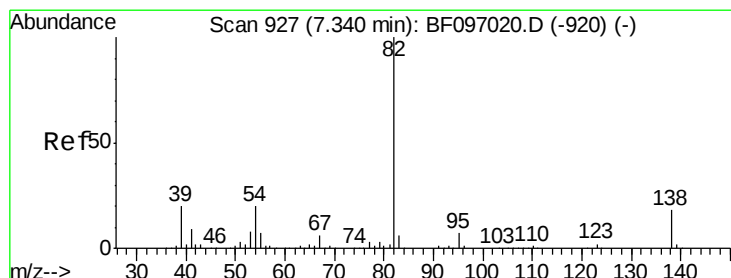
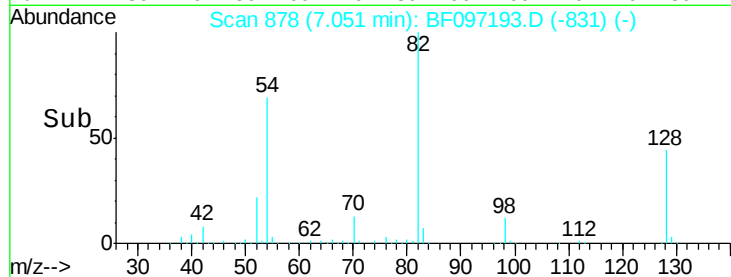
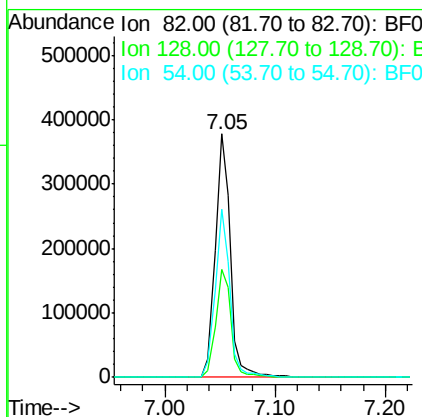
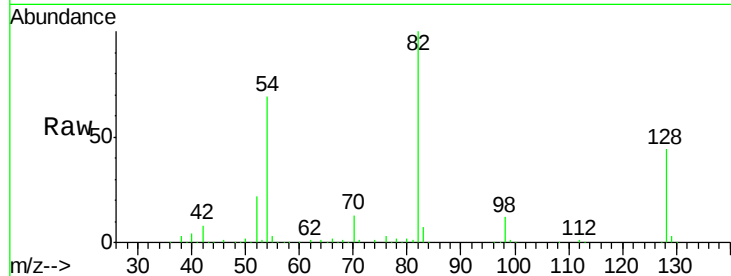




#23  
 Nitrobenzene-d5  
 Concen: 54.75 ng  
 RT: 7.05 min Scan# 878  
 Delta R.T. -0.02 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

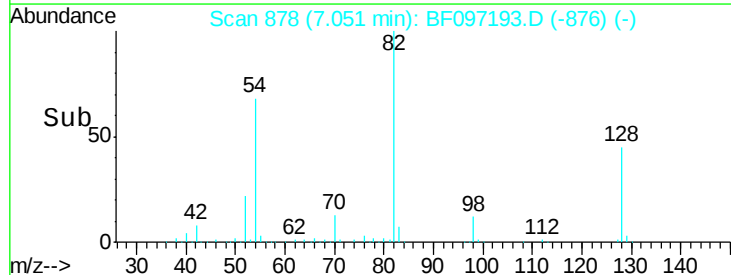
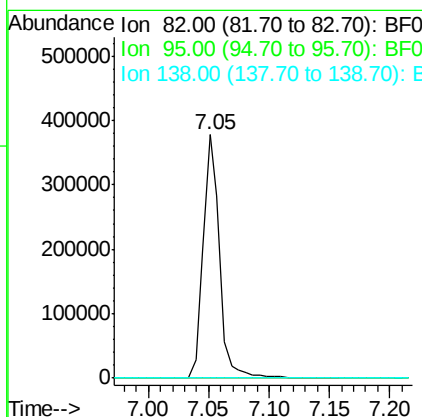
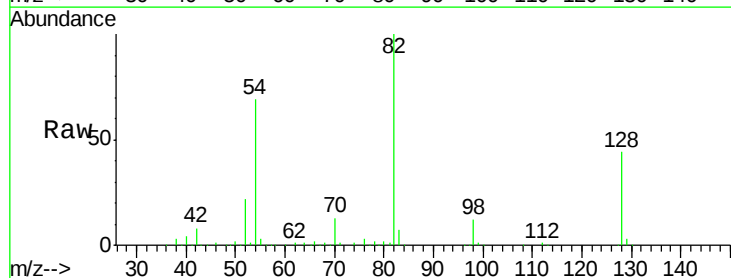
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 E2-HS5-BASEMS

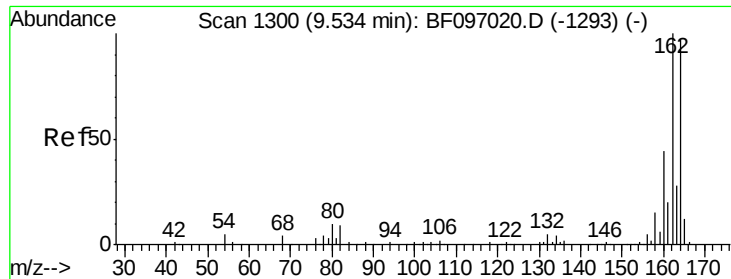
| Tot Ion   | 82    | Resp  | 355005 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 44.5  | 34.0  | 51.0   |
| 54        | 68.8  | 42.2  | 63.2#  |



#25  
 Isophorone  
 Concen: 27.65 ng  
 RT: 7.05 min Scan# 878  
 Delta R.T. -0.29 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

| Tgt Ion   | 82    | Resp  | 351060 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.3   | 7.9#   |
| 138       | 0.0   | 13.1  | 19.7#  |

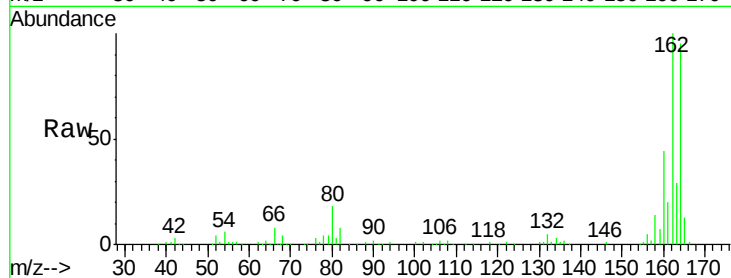




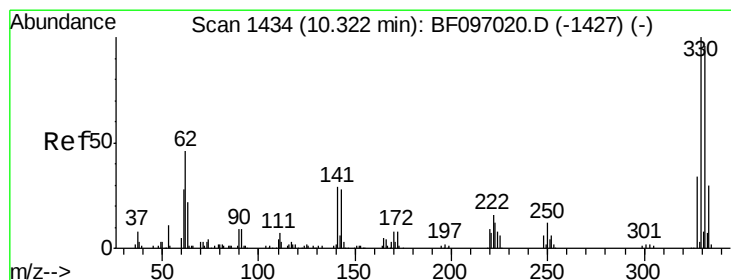
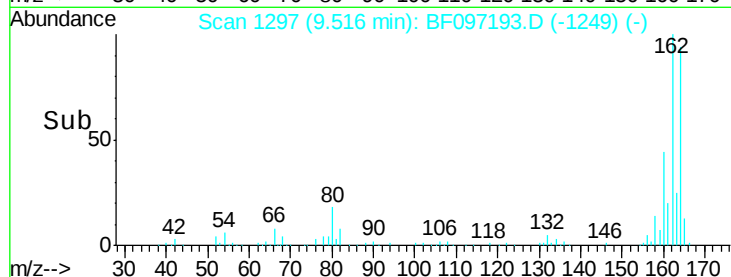
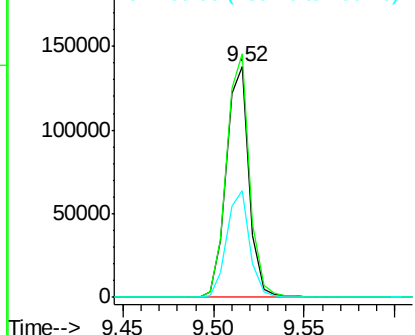
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.52 min Scan# 1297  
 Delta R.T. -0.02 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS5-BASEMS

Tot Ion:164 Resp: 121005  
 Ion Ratio Lower Upper  
 164 100  
 162 105.7 82.6 123.8  
 160 46.1 36.2 54.2

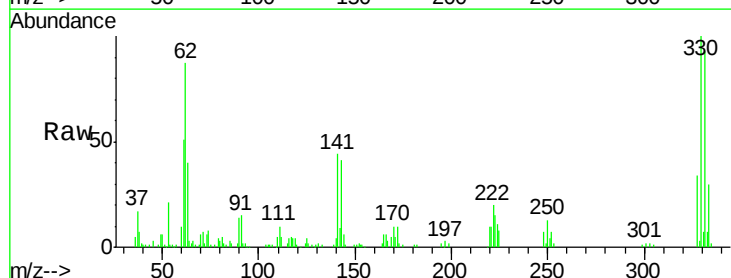


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

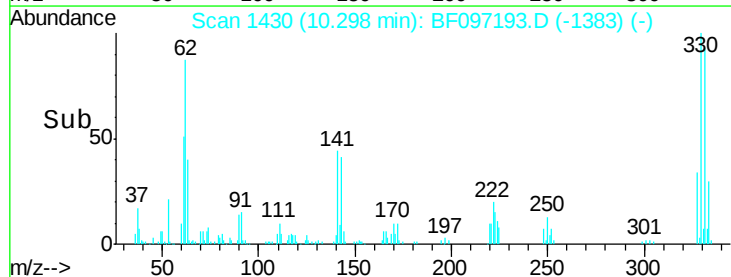
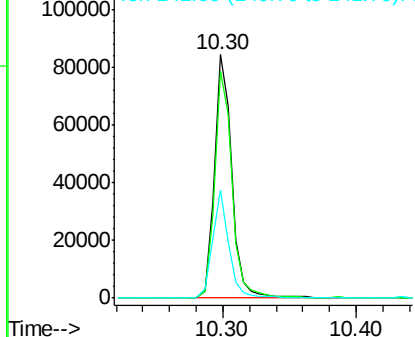


#41  
 2,4,6-Tribromophenol  
 Concen: 81.51 ng  
 RT: 10.30 min Scan# 1430  
 Delta R.T. -0.02 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

Tgt Ion:330 Resp: 77926  
 Ion Ratio Lower Upper  
 330 100  
 332 93.2 76.6 115.0  
 141 41.5 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

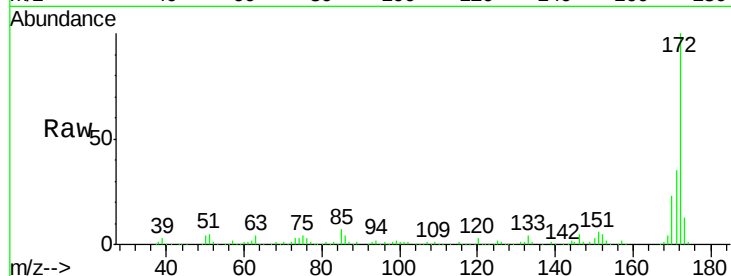




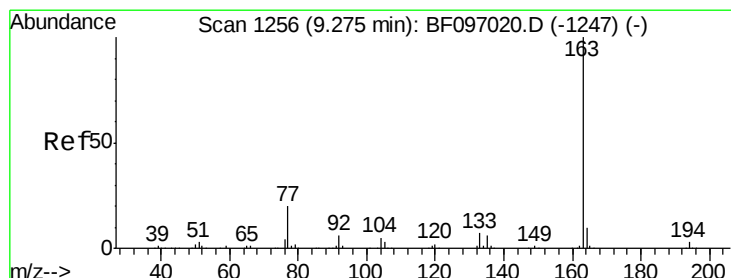
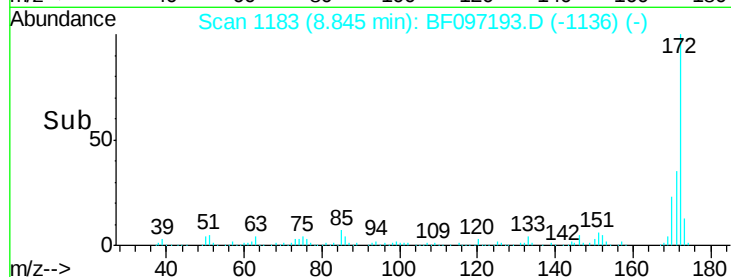
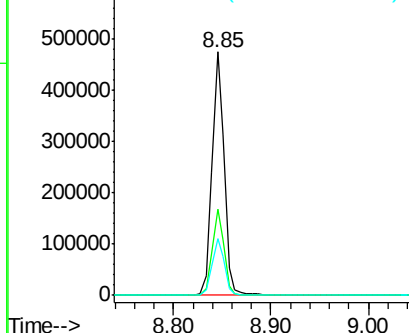
#44  
 2-Fluorobiphenyl  
 Concen: 57.49 ng  
 RT: 8.85 min Scan# 1183  
 Delta R.T. -0.02 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

Instrument :  
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Tot Ion:172 Resp: 409933  
 Ion Ratio Lower Upper  
 172 100  
 171 35.1 29.6 44.4  
 170 23.2 19.8 29.8

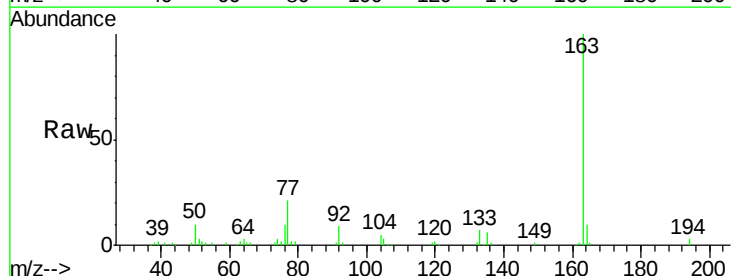


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

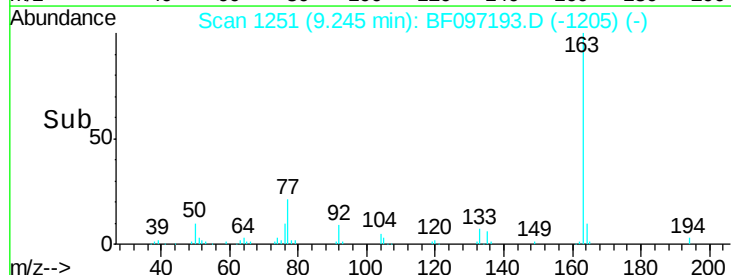
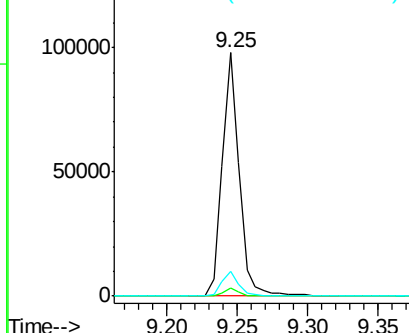


#49  
 Dimethylphthalate  
 Concen: 8.93 ng  
 RT: 9.25 min Scan# 1251  
 Delta R.T. -0.03 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

Tgt Ion:163 Resp: 82039  
 Ion Ratio Lower Upper  
 163 100  
 194 3.2 2.6 4.0  
 164 10.4 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

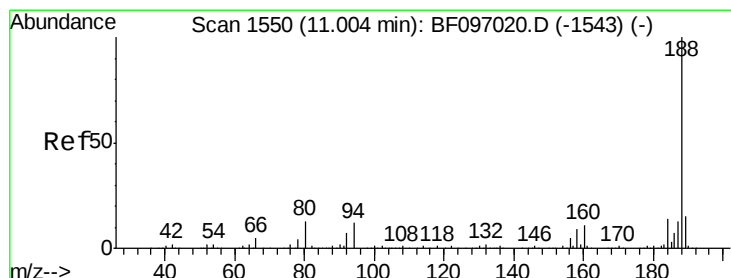
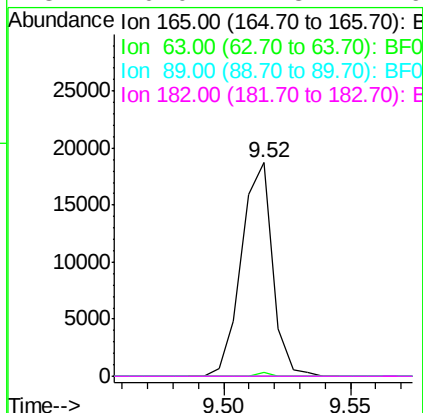
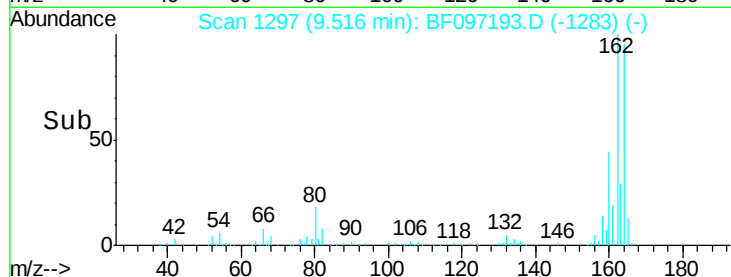
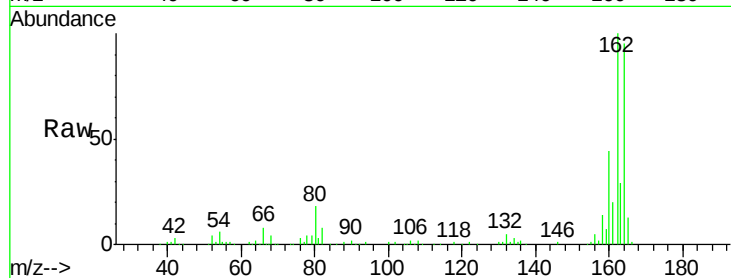




#56  
 2,4-Dinitrotoluene  
 Concen: 7.14 ng  
 RT: 9.52 min Scan# 1297  
 Delta R.T. -0.22 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

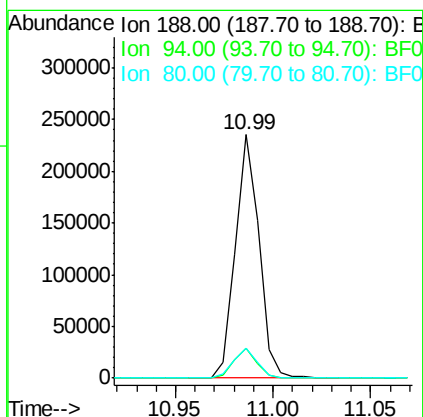
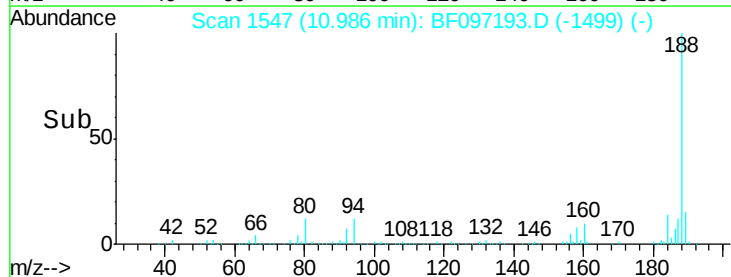
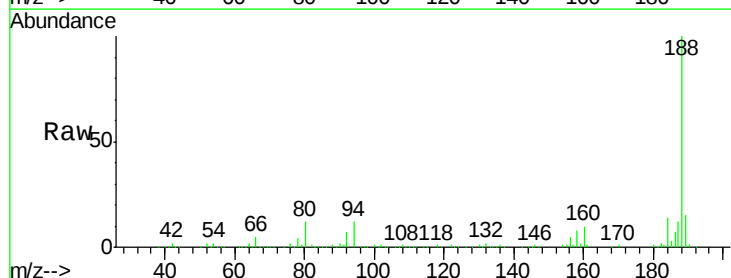
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS5-BASEMS

Tot Ion:165 Resp: 15987  
 Ion Ratio Lower Upper  
 165 100  
 63 1.8 25.4 38.0#  
 89 0.0 46.4 69.6#  
 182 0.0 1.8 2.6#



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 10.99 min Scan# 1547  
 Delta R.T. -0.02 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

Tgt Ion:188 Resp: 198137  
 Ion Ratio Lower Upper  
 188 100  
 94 12.1 9.4 14.2  
 80 12.4 10.2 15.2

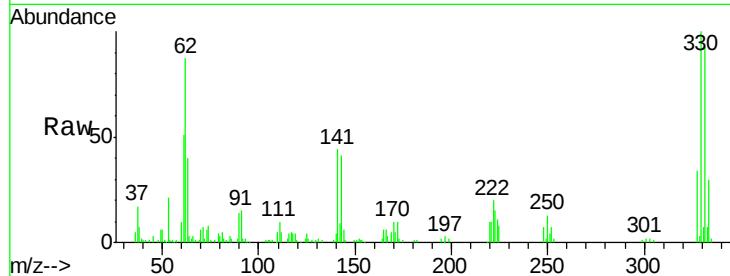




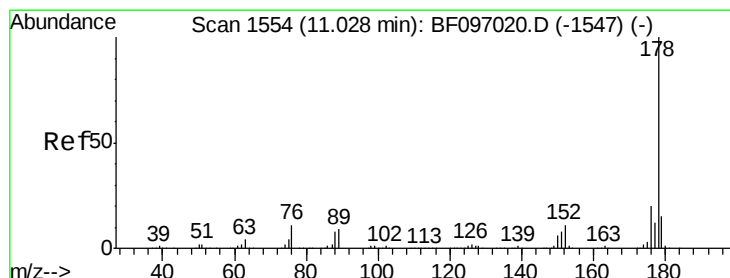
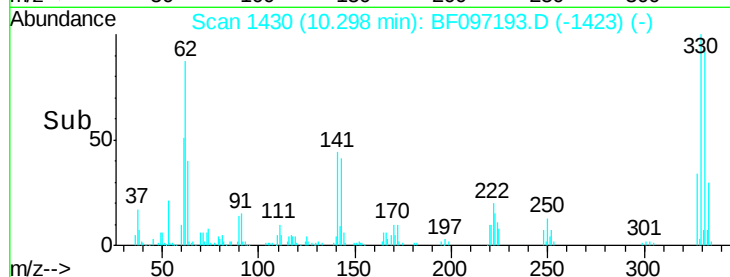
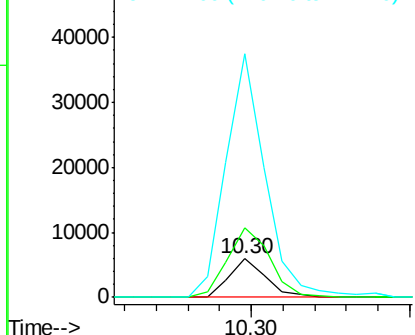
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.36 ng  
 RT: 10.30 min Scan# 1430  
 Delta R.T. -0.26 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS5-BASEMS

Tot Ion:248 Resp: 4659  
 Ion Ratio Lower Upper  
 248 100  
 250 180.7 76.8 115.2#  
 141 636.9 68.6 103.0#

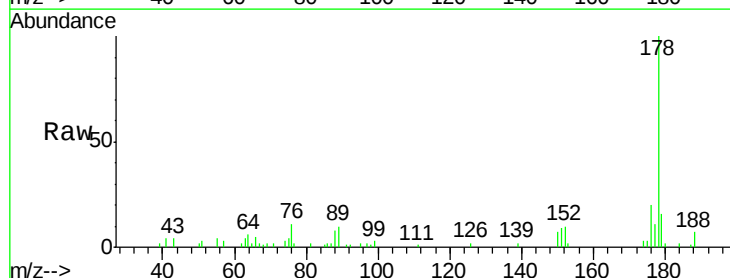


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

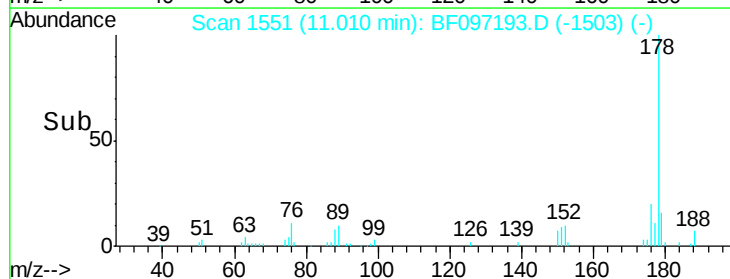
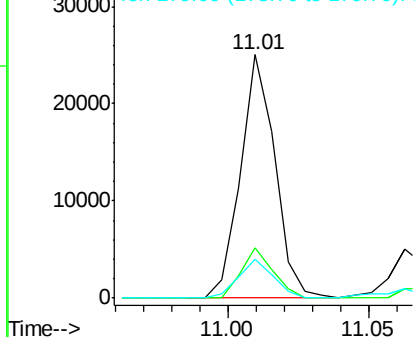


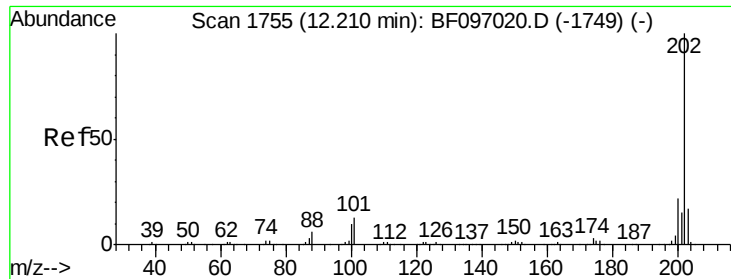
#70  
 Phenanthrene  
 Concen: 2.00 ng  
 RT: 11.01 min Scan# 1551  
 Delta R.T. -0.02 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

Tgt Ion:178 Resp: 21235  
 Ion Ratio Lower Upper  
 178 100  
 176 20.5 16.2 24.4  
 179 15.8 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

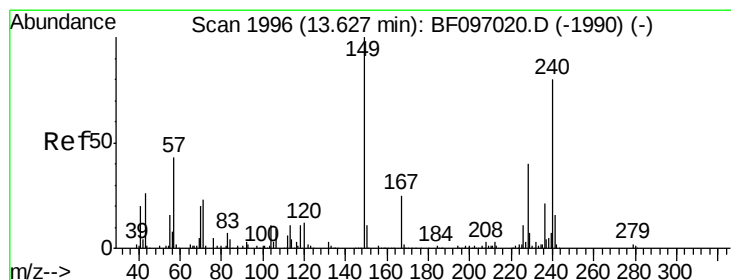
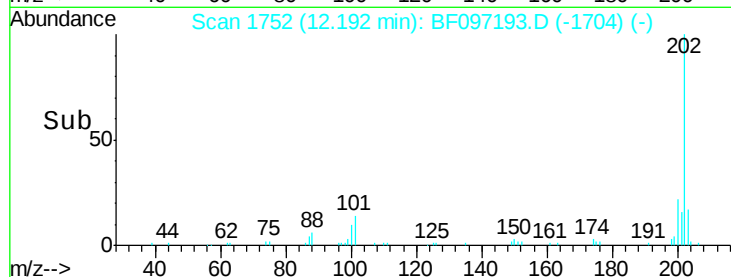
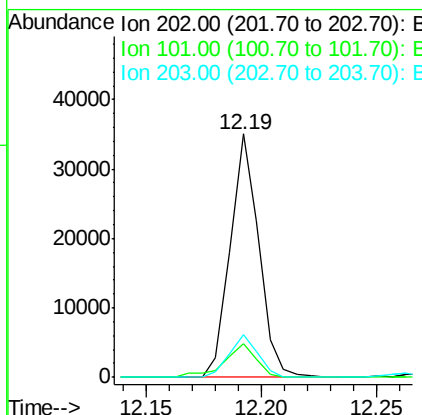
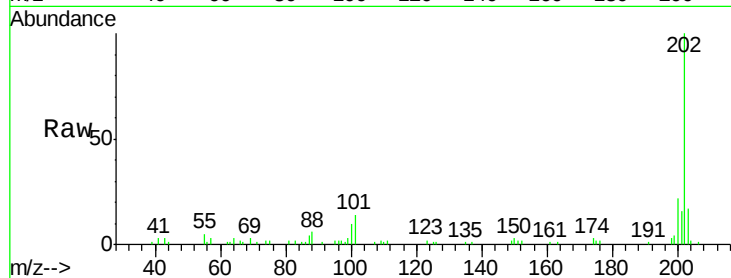




#74  
 Fluoranthene  
 Concen: 2.90 ng  
 RT: 12.19 min Scan# 1752  
 Delta R.T. -0.02 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

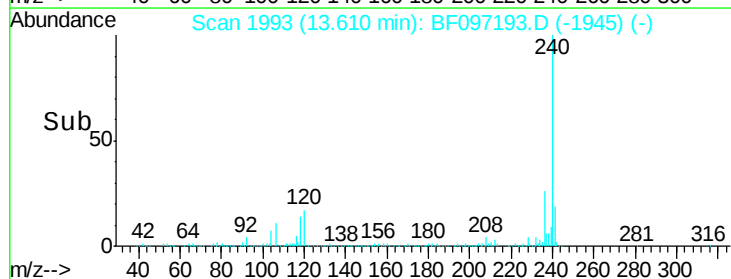
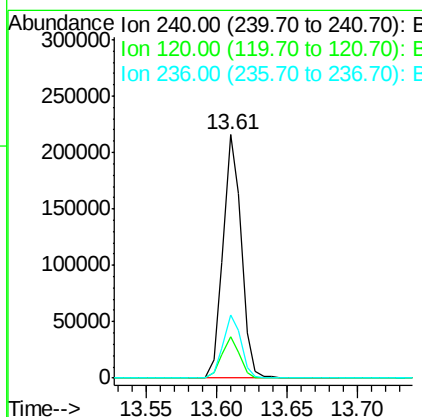
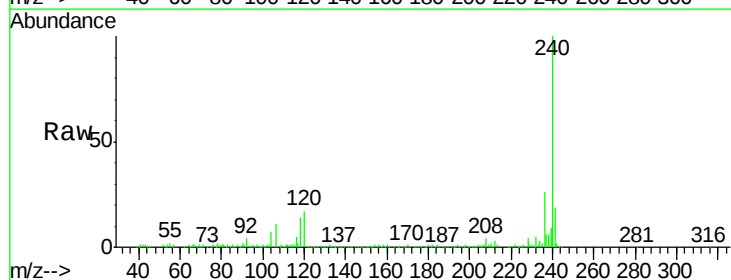
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS5-BASEMS

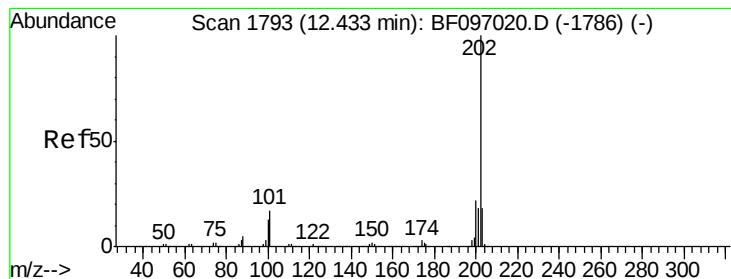
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.1  | 0.0   | 33.2  |
| 203     | 17.5  | 0.0   | 38.1  |



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.61 min Scan# 1993  
 Delta R.T. -0.02 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 17.1  | 5.8   | 8.8#  |
| 236     | 25.8  | 20.5  | 30.7  |





#77

Pvrene

Concen: 2.13 ng

RT: 12.42 min Scan# 1790

Delta R.T. -0.02 min

Lab File: BF097193.D

Acq: 29 Jul 2017 10:00

Instrument :

BNA\_F

ClientSampleId :

E2-HS5-BASEMS

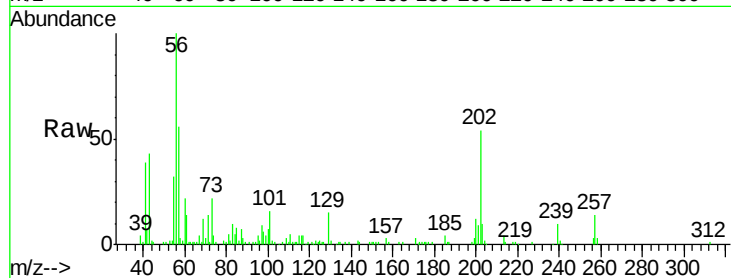
Tot Ion:202 Resp: 33895

Ion Ratio Lower Upper

202 100

200 22.6 17.6 26.4

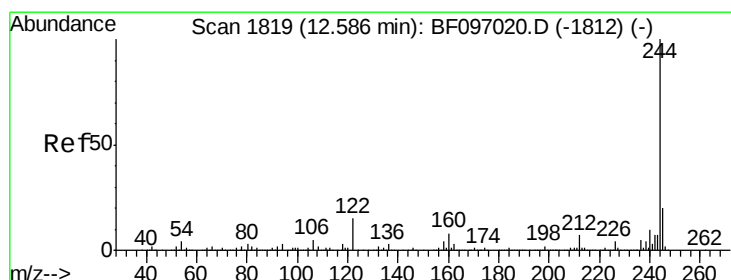
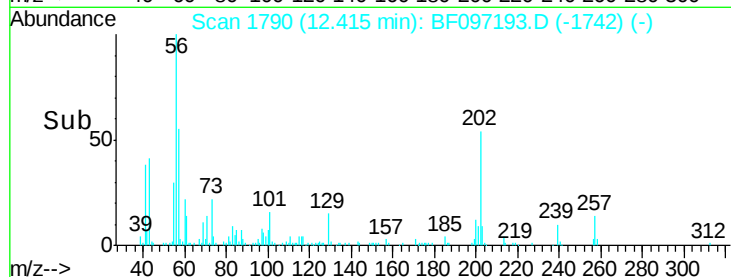
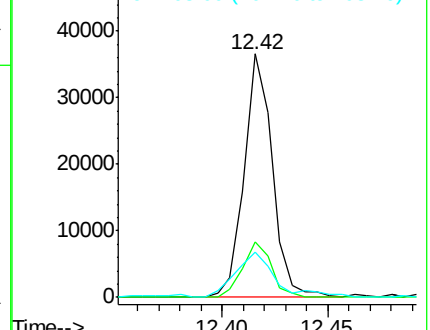
203 18.8 14.4 21.6



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: 23.80 ng

RT: 12.57 min Scan# 1816

Delta R.T. -0.02 min

Lab File: BF097193.D

Acq: 29 Jul 2017 10:00

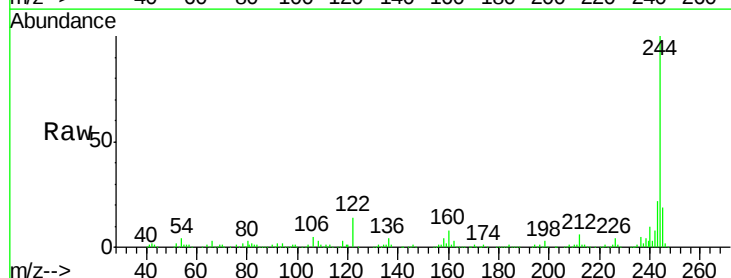
Tgt Ion:244 Resp: 226864

Ion Ratio Lower Upper

244 100

212 6.3 6.0 9.0

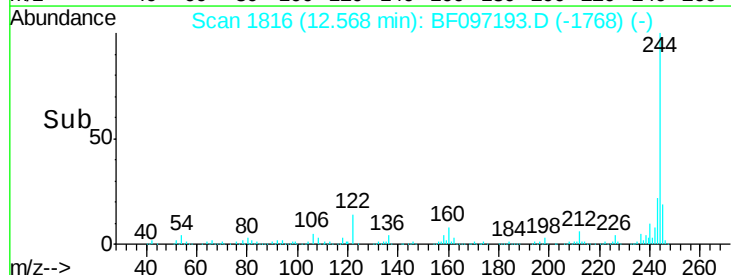
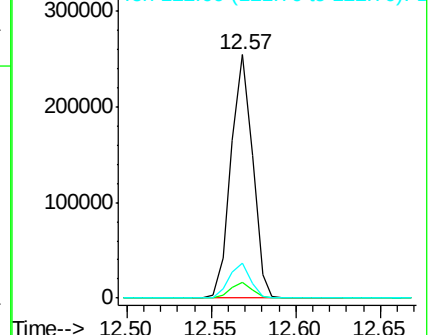
122 14.1 10.3 15.5

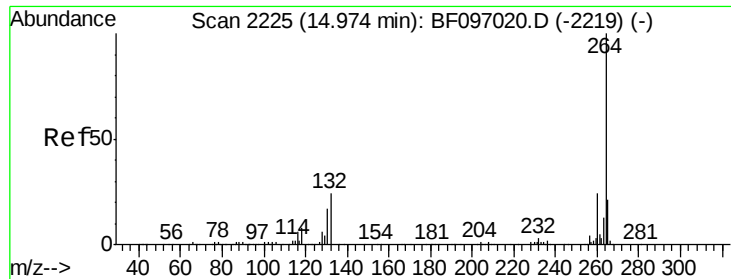


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

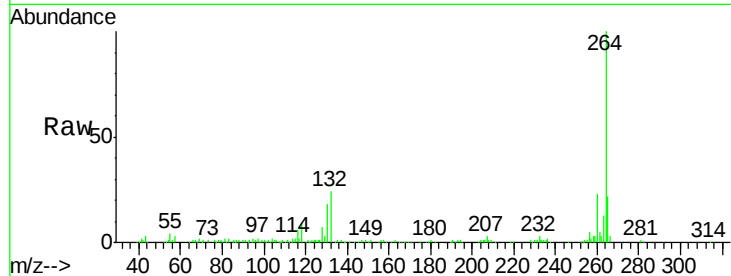




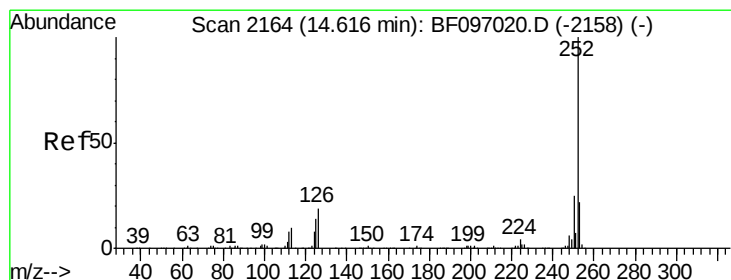
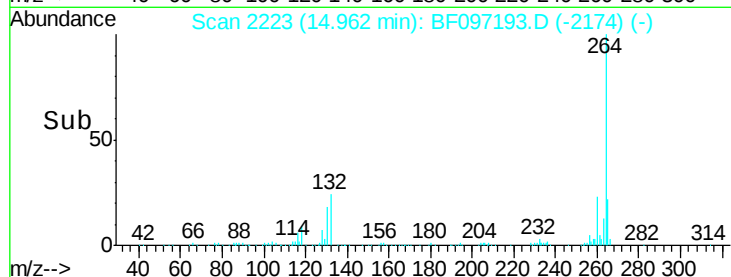
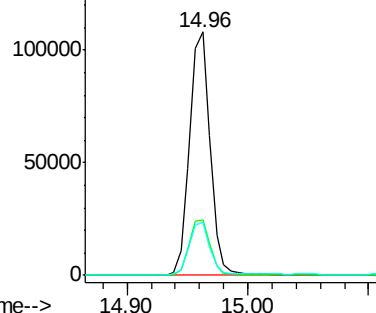
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 14.96 min Scan# 2223  
Delta R.T. -0.01 min  
Lab File: BF097193.D  
Acq: 29 Jul 2017 10:00

Instrument :  
BNA\_F  
ClientSampleId :  
E2-HS5-BASEMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 19.5  | 29.3  |
| 265     | 21.6  | 17.2  | 25.8  |

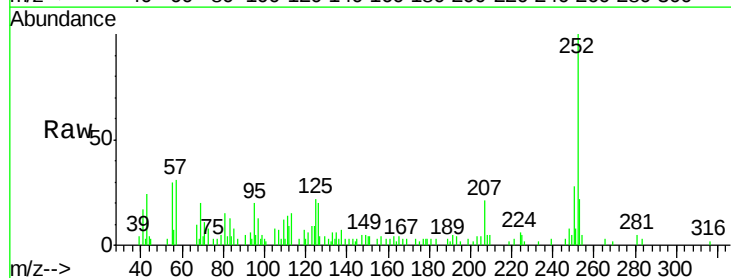


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

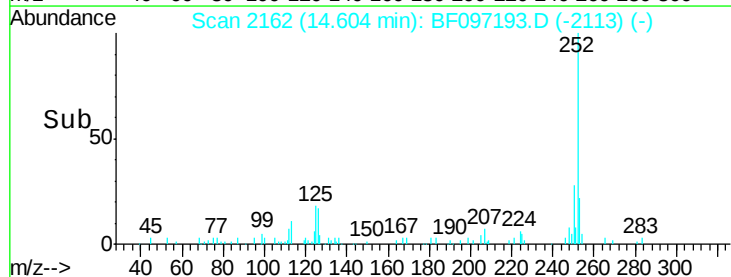
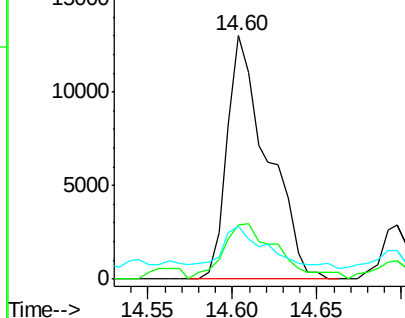


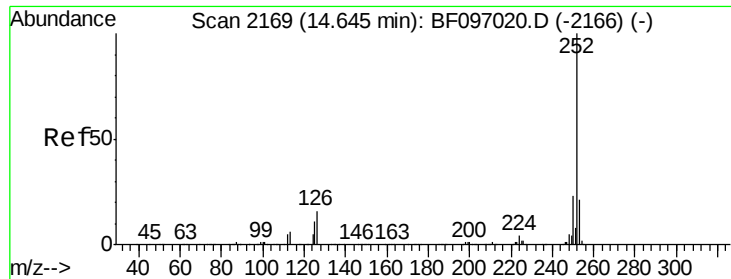
#87  
Benzo(b)fluoranthene  
Concen: 2.82 ng  
RT: 14.60 min Scan# 2162  
Delta R.T. -0.01 min  
Lab File: BF097193.D  
Acq: 29 Jul 2017 10:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 18.1  | 27.1  |
| 125     | 21.9  | 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

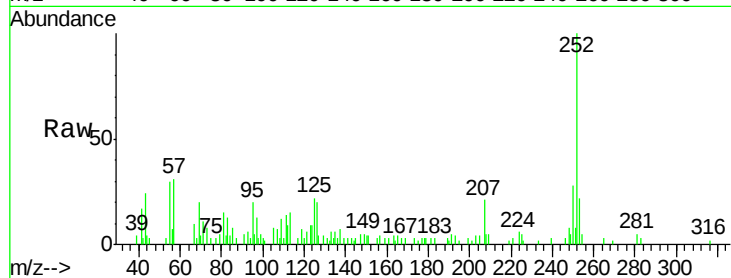




#88  
 Benzo(k)fluoranthene  
 Concen: 2.96 ng  
 RT: 14.60 min Scan# 2162  
 Delta R.T. -0.04 min  
 Lab File: BF097193.D  
 Acq: 29 Jul 2017 10:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS5-BASEMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 18.4  | 27.6  |
| 125     | 21.9  | 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

