

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\  
 Data File : BF097207.D  
 Acq On : 31 Jul 2017 14:56  
 Operator : SJ/JU  
 Sample : I4421-11  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Jul 31 19:13:12 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 31 15:18:22 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.48  | 152  | 122904   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.76  | 136  | 467667   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.50  | 164  | 184156   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 10.98 | 188  | 274196   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.61 | 240  | 222090   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 14.96 | 264  | 233902   | 20.00 | ng    | 0.00     |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 5.07  | 112 | 628983 | 77.15 | ng | 0.00  |
| 7) Phenol-d6                | 6.14  | 99  | 741565 | 79.67 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.05  | 82  | 423891 | 53.17 | ng | 0.00  |
| 41) 2,4,6-Tribromophenol    | 10.29 | 330 | 106806 | 73.41 | ng | -0.01 |
| 44) 2-Fluorobiphenyl        | 8.84  | 172 | 539404 | 49.71 | ng | 0.00  |
| 78) Terphenyl-d14           | 12.56 | 244 | 285953 | 26.25 | ng | -0.01 |

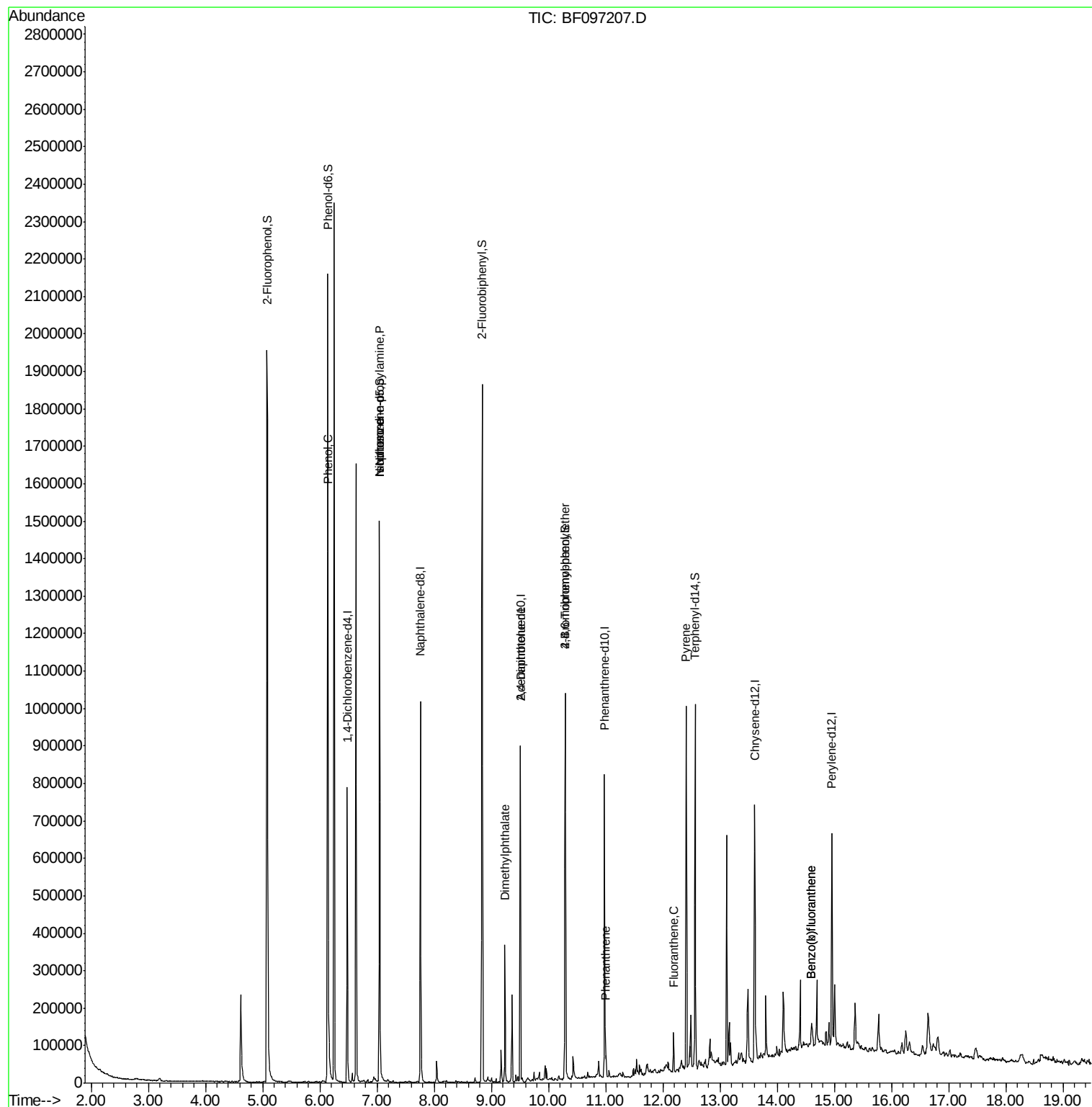
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 10) Phenol                     | 6.15  | 94  | 28338  | 2.567  | ng | 93   |
| 19) n-Nitroso-di-n-propylamine | 7.05  | 70  | 55745  | 9.099  | ng | # 87 |
| 25) Isophorone                 | 7.05  | 82  | 416064 | 26.650 | ng | # 67 |
| 49) Dimethylphthalate          | 9.24  | 163 | 130151 | 9.307  | ng | 98   |
| 56) 2,4-Dinitrotoluene         | 9.50  | 165 | 23442  | 6.875  | ng | # 34 |
| 66) 4-Bromophenyl-phenylether  | 10.29 | 248 | 6936   | 2.535  | ng | # 1  |
| 70) Phenanthrene               | 11.00 | 178 | 30257  | 2.059  | ng | 99   |
| 74) Fluoranthene               | 12.19 | 202 | 40188  | 2.792  | ng | 96   |
| 77) Pyrene                     | 12.42 | 202 | 44738  | 2.461  | ng | 97   |
| 87) Benzo(b)fluoranthene       | 14.60 | 252 | 37646  | 2.677  | ng | # 91 |
| 88) Benzo(k)fluoranthene       | 14.60 | 252 | 37646  | 2.810  | ng | 95   |

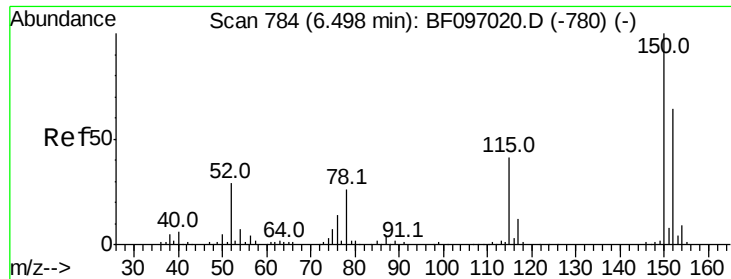
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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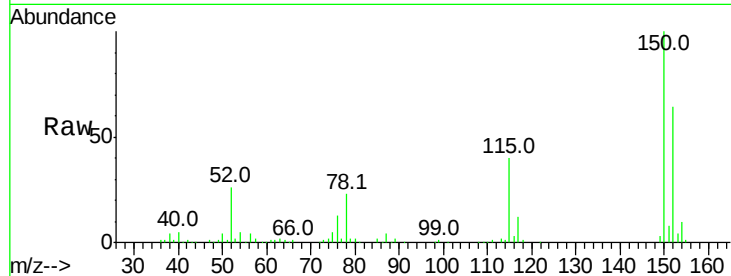


#1

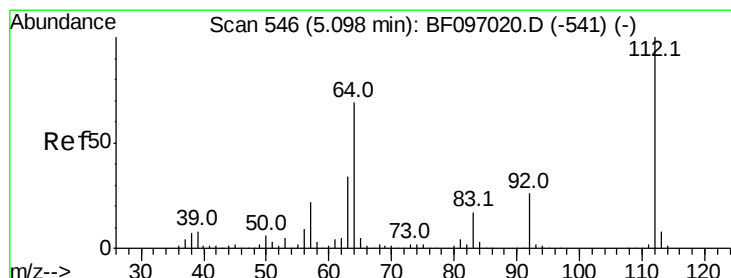
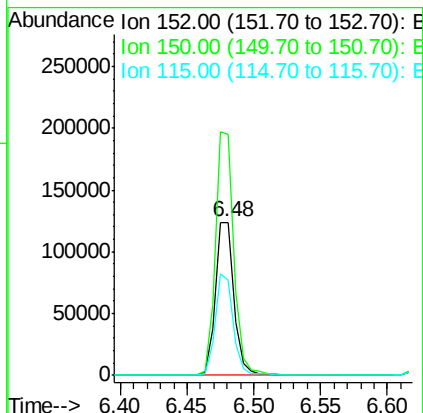
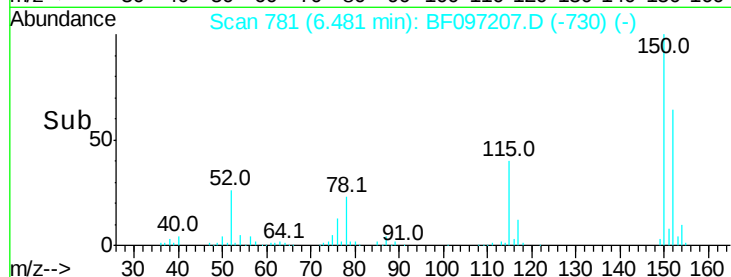
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.48 min Scan# 781  
 Delta R.T. -0.00 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

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

Tot Ion:152 Resp: 122904  
 Ion Ratio Lower Upper  
 152 100  
 150 157.0 126.2 189.2  
 115 62.1 52.2 78.2



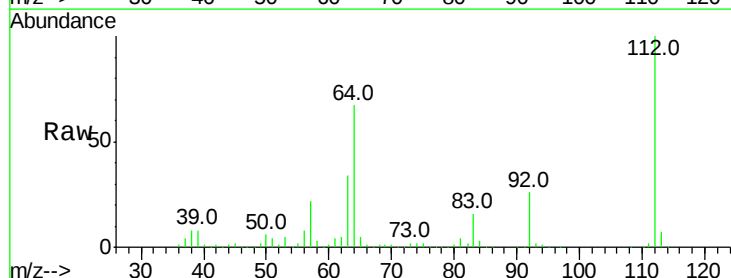
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



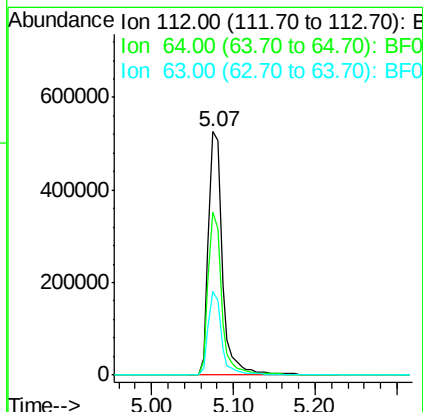
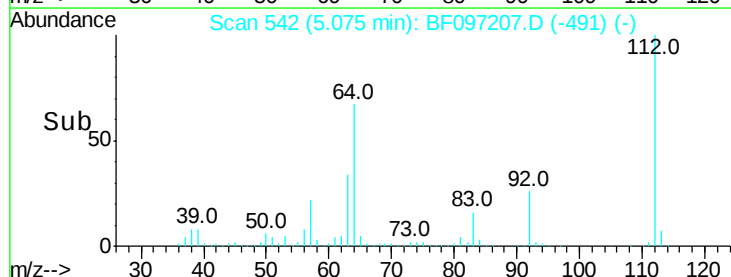
#5

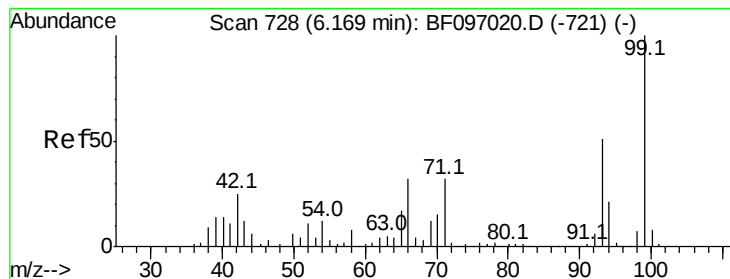
2-Fluorophenol  
 Concen: 77.148 ng  
 RT: 5.07 min Scan# 542  
 Delta R.T. -0.00 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

Tgt Ion:112 Resp: 628983  
 Ion Ratio Lower Upper  
 112 100  
 64 66.9 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: 79.674 ng

RT: 6.14 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF097207.D

Acq: 31 Jul 2017 14:56

Instrument :

BNA\_F

ClientSampleId :

E2-HS5-BASE

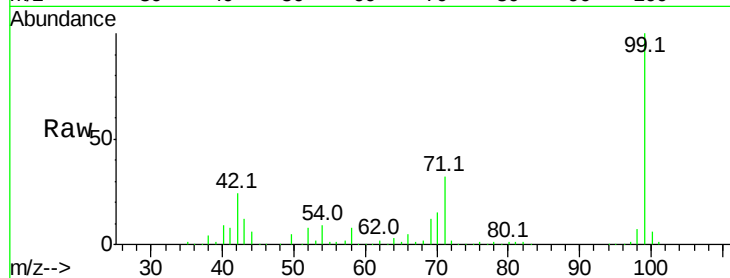
Tot Ion: 99 Resp: 741565

Ion Ratio Lower Upper

99 100

42 23.9 13.5 20.3#

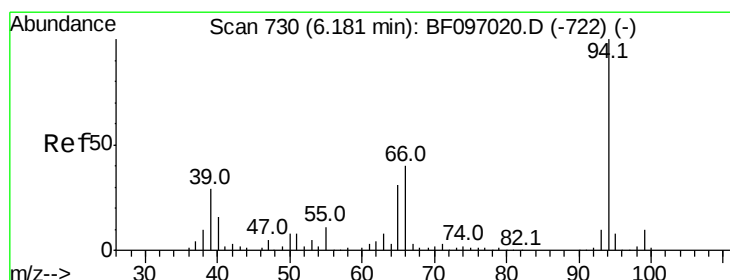
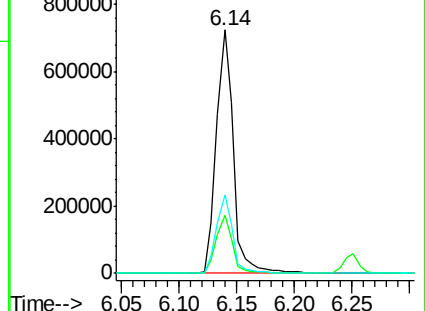
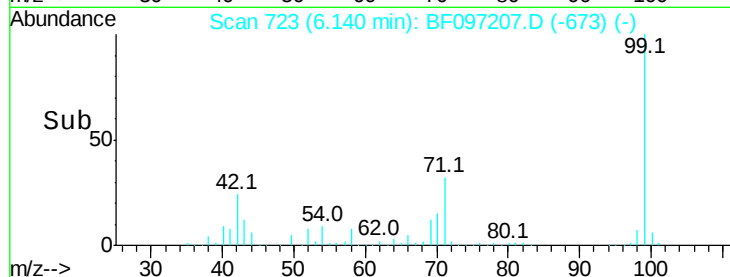
71 32.1 24.5 36.7



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: 2.567 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF097207.D

Acq: 31 Jul 2017 14:56

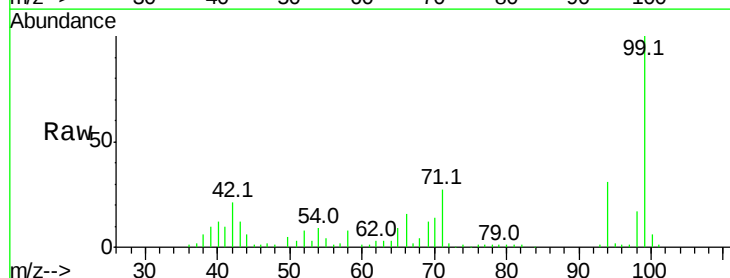
Tgt Ion: 94 Resp: 28338

Ion Ratio Lower Upper

94 100

65 30.3 9.9 49.9

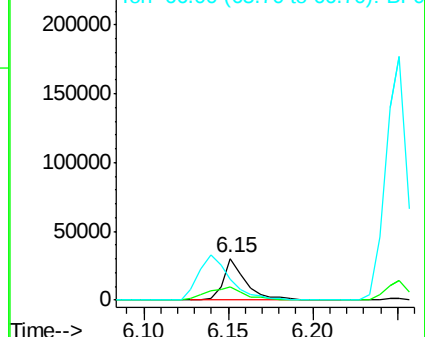
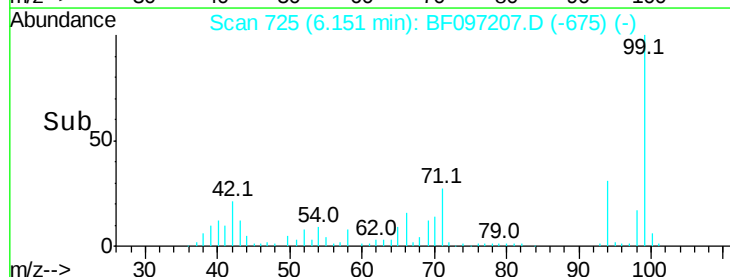
66 50.3 23.1 63.1

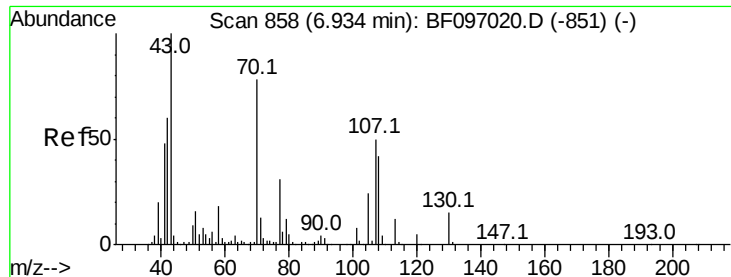


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

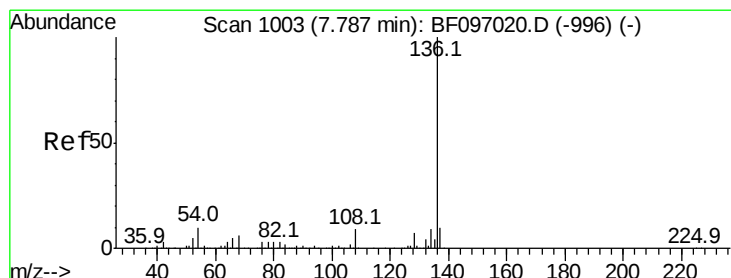
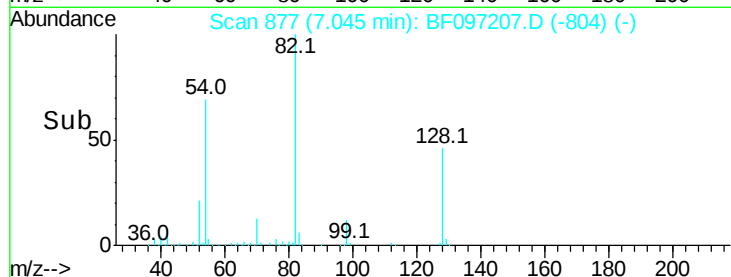
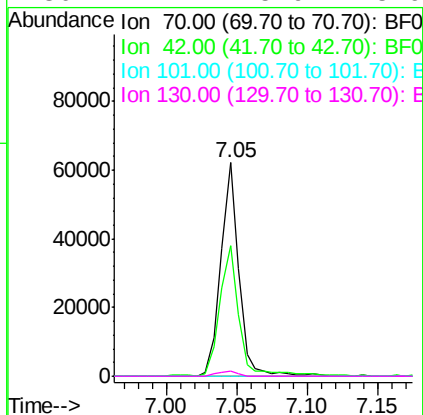
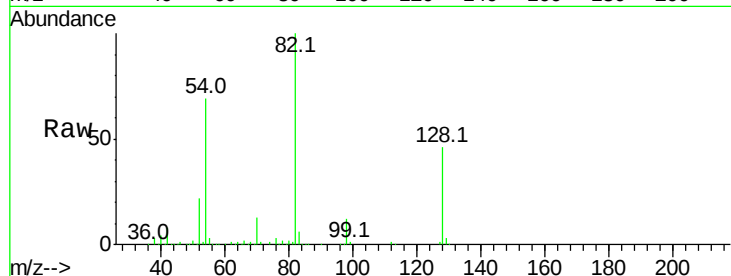




#19  
n-Nitroso-di-n-propylamine  
Concen: 9.099 ng  
RT: 7.05 min Scan# 877  
Delta R.T. 0.13 min  
Lab File: BF097207.D  
Acq: 31 Jul 2017 14:56

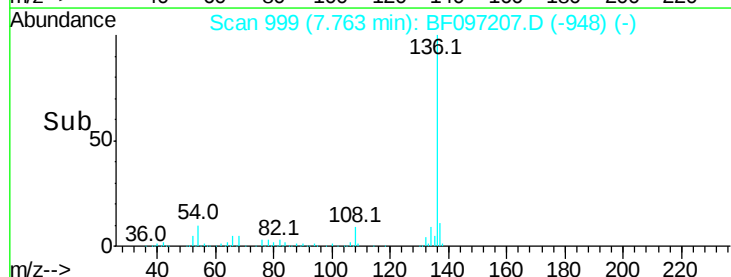
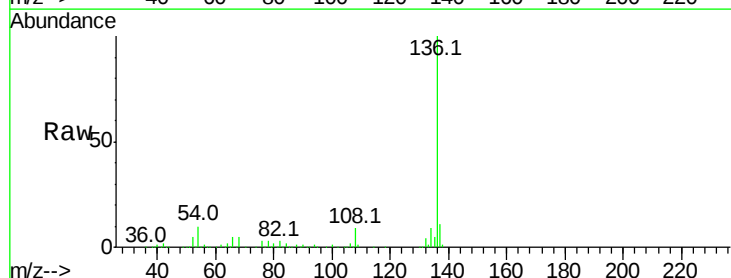
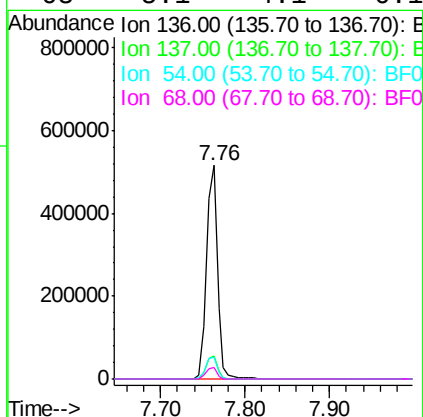
Instrument :  
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ClientSampleId :  
E2-HS5-BASE

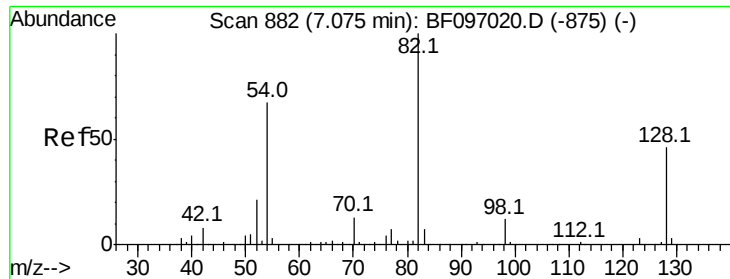
Tot Ion: 70 Resp: 55745  
Ion Ratio Lower Upper  
70 100  
42 61.2 47.2 70.8  
101 0.0 7.2 10.8#  
130 2.2 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.76 min Scan# 999  
Delta R.T. -0.00 min  
Lab File: BF097207.D  
Acq: 31 Jul 2017 14:56

Tgt Ion:136 Resp: 467667  
Ion Ratio Lower Upper  
136 100  
137 10.6 8.5 12.7  
54 10.1 4.9 7.3#  
68 5.1 4.1 6.1

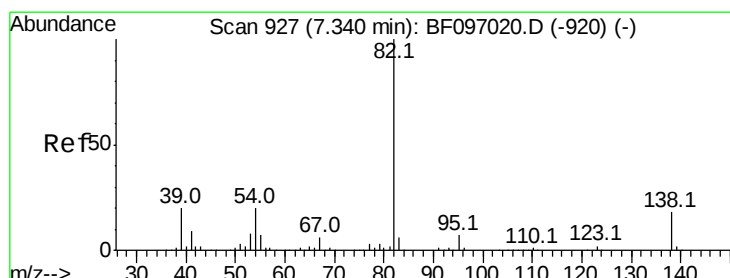
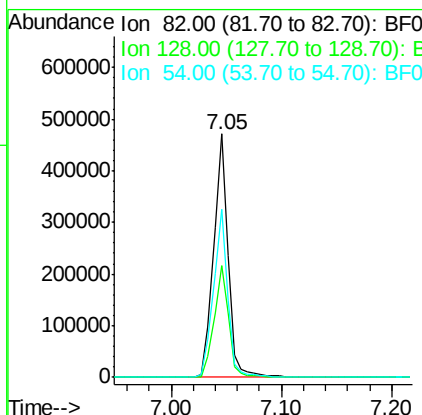
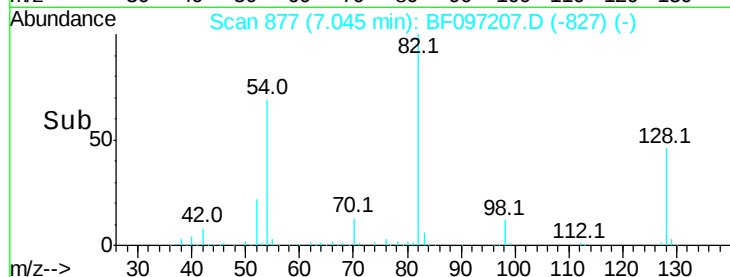
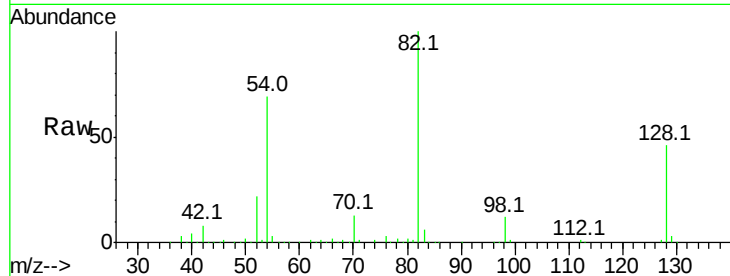




#23  
 Nitrobenzene-d5  
 Concen: 53.173 ng  
 RT: 7.05 min Scan# 877  
 Delta R.T. -0.01 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

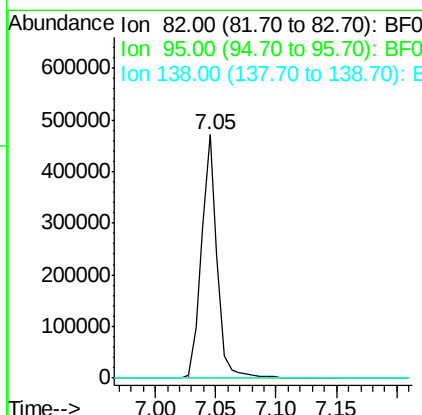
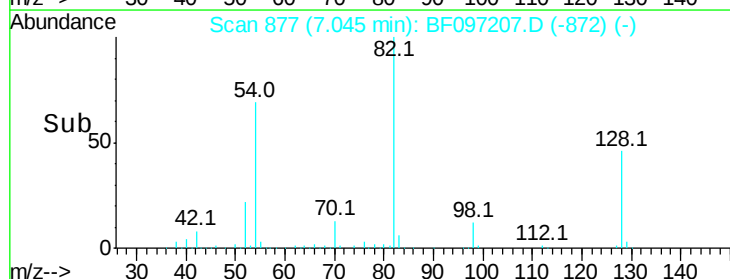
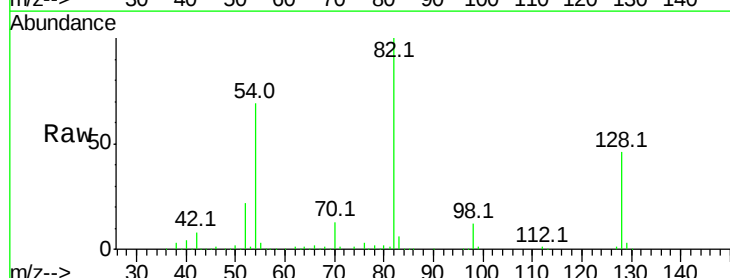
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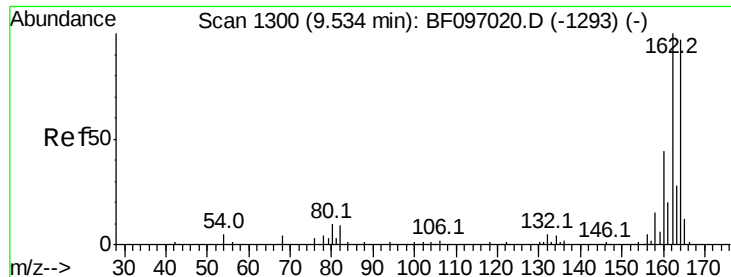
Tot Ion: 82 Resp: 423891  
 Ion Ratio Lower Upper  
 82 100  
 128 45.8 34.0 51.0  
 54 69.1 42.2 63.2#



#25  
 Isophorone  
 Concen: 26.650 ng  
 RT: 7.05 min Scan# 877  
 Delta R.T. -0.27 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

Tgt Ion: 82 Resp: 416064  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.3 7.9#  
 138 0.0 13.1 19.7#

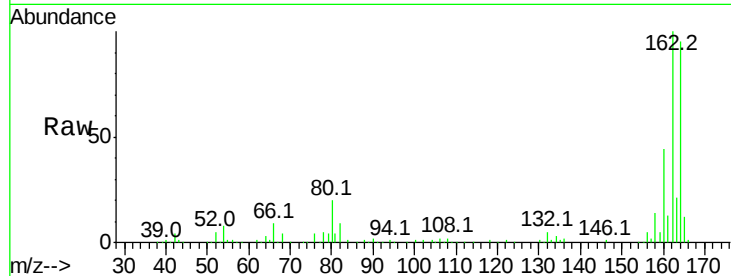




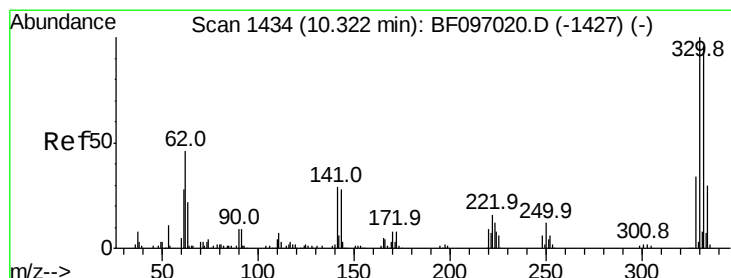
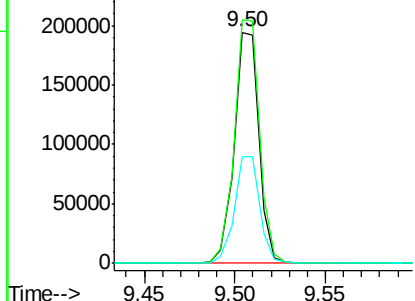
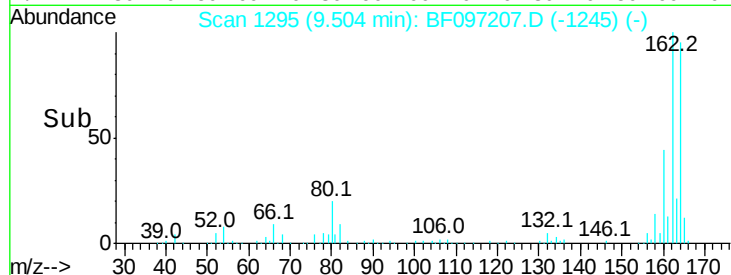
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.50 min Scan# 1295  
 Delta R.T. -0.01 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

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

Tot Ion:164 Resp: 184156  
 Ion Ratio Lower Upper  
 164 100  
 162 105.3 82.6 123.8  
 160 46.0 36.2 54.2

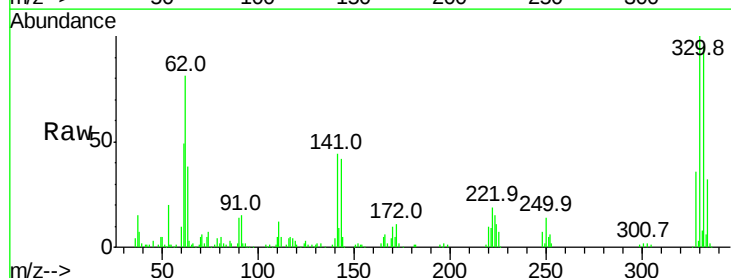


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

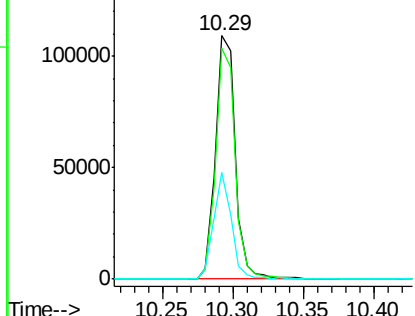
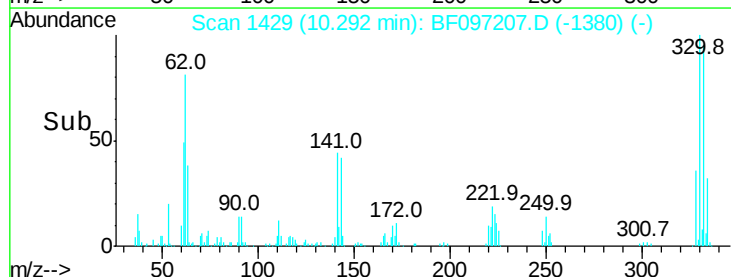


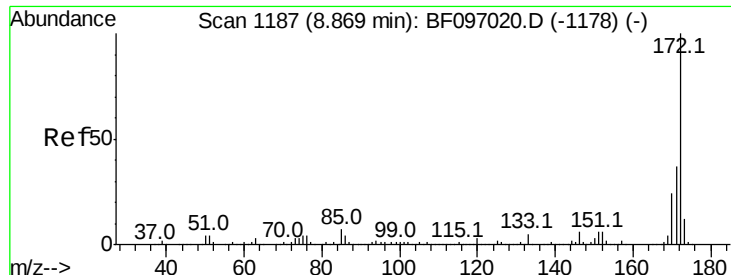
#41  
 2,4,6-Tribromophenol  
 Concen: 73.406 ng  
 RT: 10.29 min Scan# 1429  
 Delta R.T. -0.01 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

Tgt Ion:330 Resp: 106806  
 Ion Ratio Lower Upper  
 330 100  
 332 93.3 76.6 115.0  
 141 39.5 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

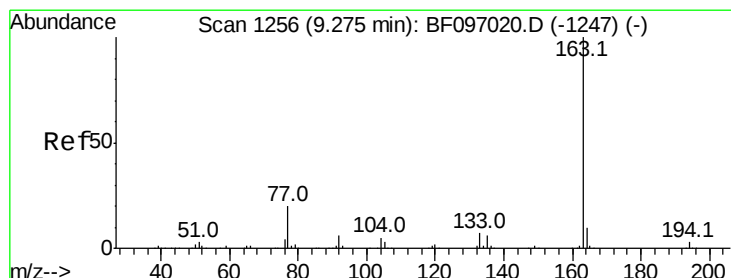
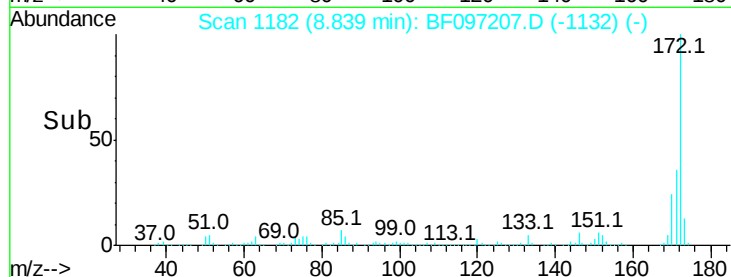
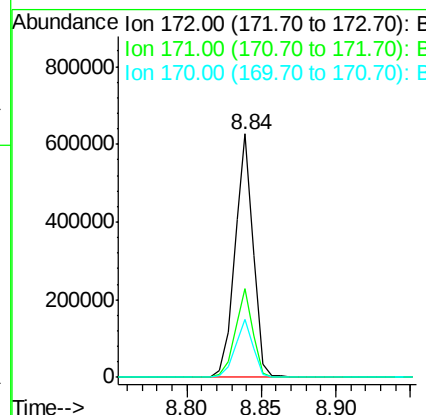
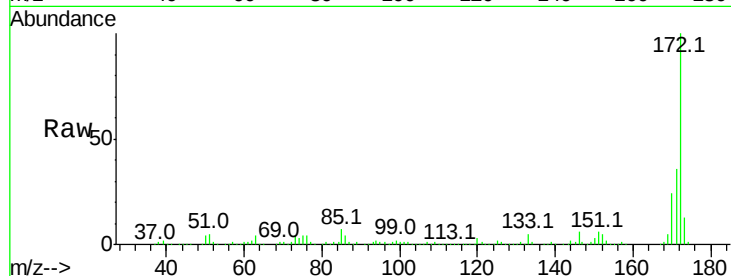




#44  
2-Fluorobiphenyl  
Concen: 49.709 ng  
RT: 8.84 min Scan# 1182  
Delta R.T. -0.01 min  
Lab File: BF097207.D  
Acq: 31 Jul 2017 14:56

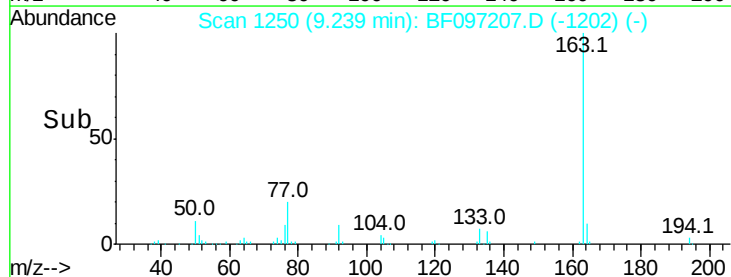
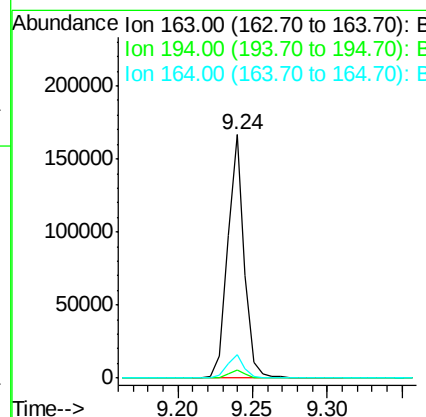
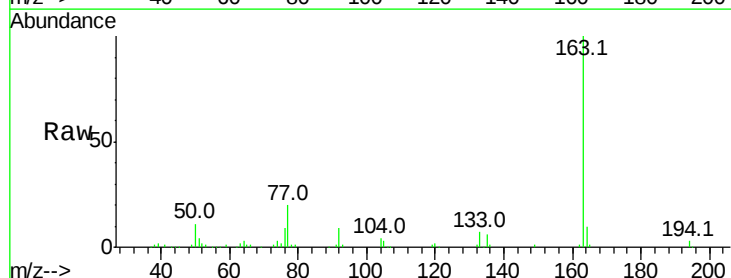
Instrument :  
BNA\_F  
ClientSampleId :  
E2-HS5-BASE

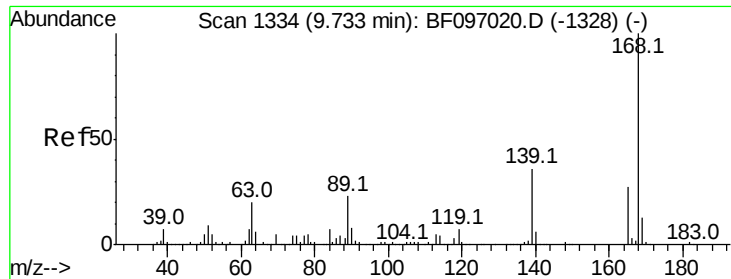
Tot Ion:172 Resp: 539404  
Ion Ratio Lower Upper  
172 100  
171 36.3 29.6 44.4  
170 24.0 19.8 29.8



#49  
Dimethylphthalate  
Concen: 9.307 ng  
RT: 9.24 min Scan# 1250  
Delta R.T. -0.02 min  
Lab File: BF097207.D  
Acq: 31 Jul 2017 14:56

Tgt Ion:163 Resp: 130151  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.6 4.0  
164 9.5 8.4 12.6

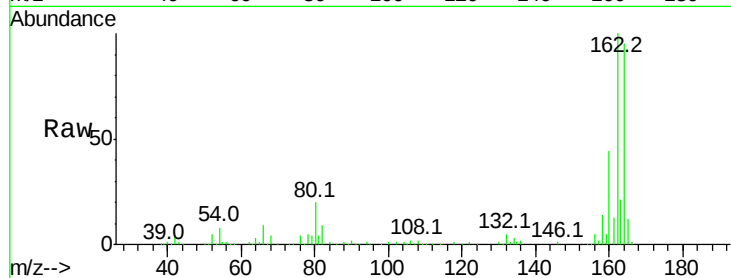




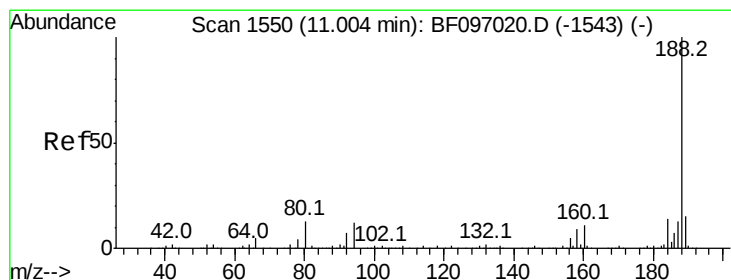
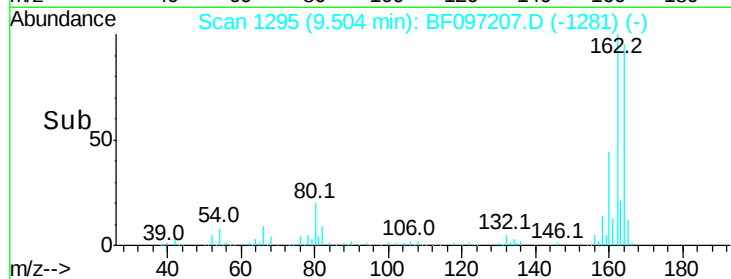
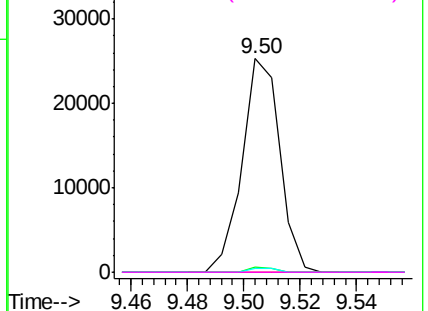
#56  
 2,4-Dinitrotoluene  
 Concen: 6.875 ng  
 RT: 9.50 min Scan# 1295  
 Delta R.T. -0.22 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

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

Tot Ion:165 Resp: 23442  
 Ion Ratio Lower Upper  
 165 100  
 63 2.5 25.4 38.0#  
 89 2.0 46.4 69.6#  
 182 0.0 1.8 2.6#

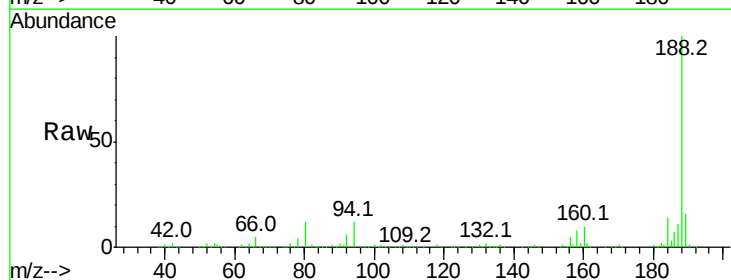


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

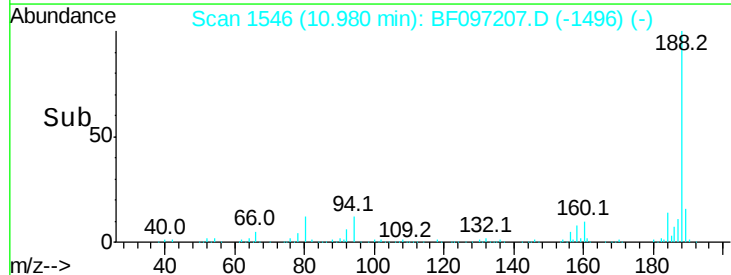
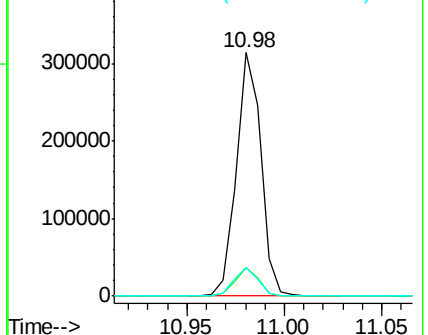


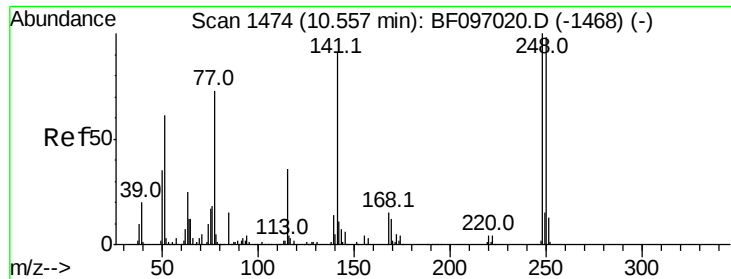
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 10.98 min Scan# 1546  
 Delta R.T. -0.01 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

Tgt Ion:188 Resp: 274196  
 Ion Ratio Lower Upper  
 188 100  
 94 11.7 9.4 14.2  
 80 11.7 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

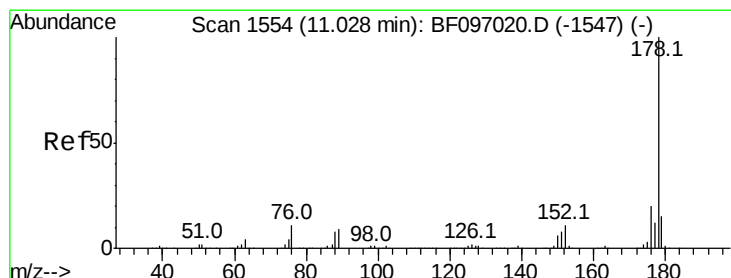
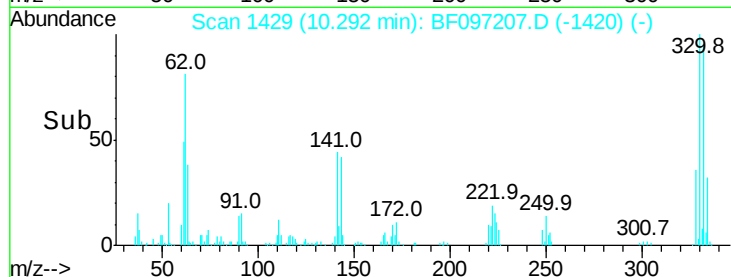
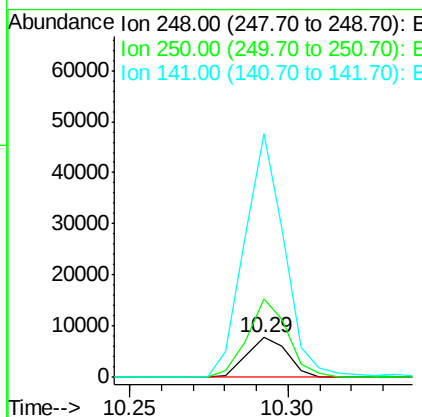
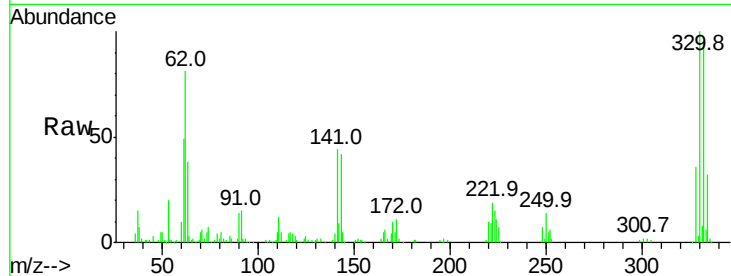




#66  
 4-Bromophenyl-phenylether  
 Concen: 2.535 ng  
 RT: 10.29 min Scan# 1429  
 Delta R.T. -0.25 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

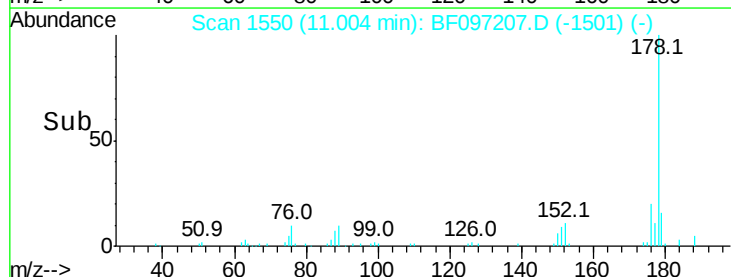
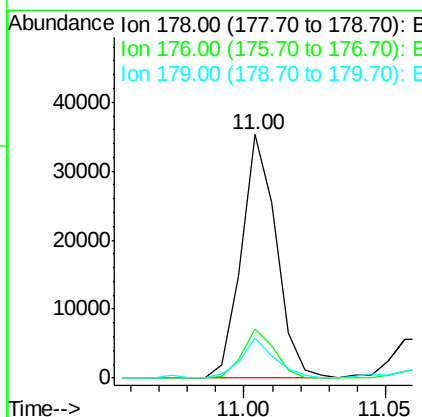
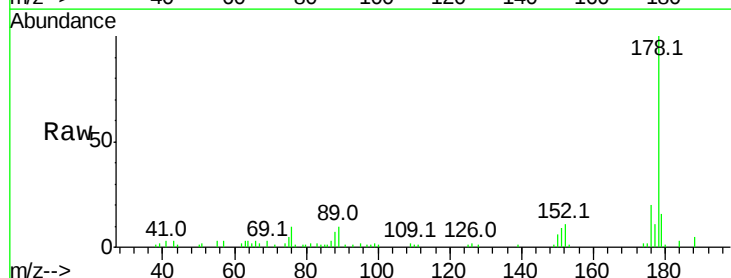
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS5-BASE

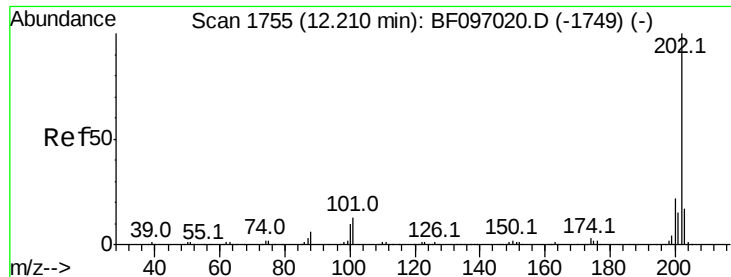
Tot Ion:248 Resp: 6936  
 Ion Ratio Lower Upper  
 248 100  
 250 197.4 76.8 115.2#  
 141 609.2 68.6 103.0#



#70  
 Phenanthrene  
 Concen: 2.059 ng  
 RT: 11.00 min Scan# 1550  
 Delta R.T. -0.01 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

Tgt Ion:178 Resp: 30257  
 Ion Ratio Lower Upper  
 178 100  
 176 20.3 16.2 24.4  
 179 16.3 12.6 19.0

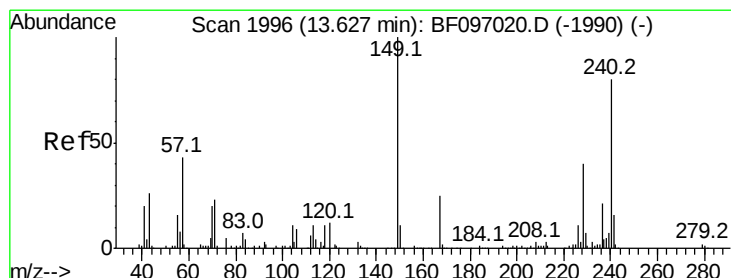
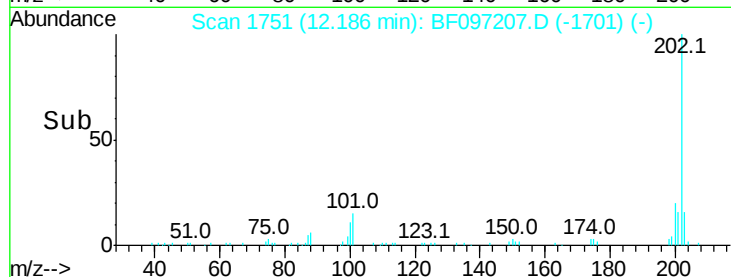
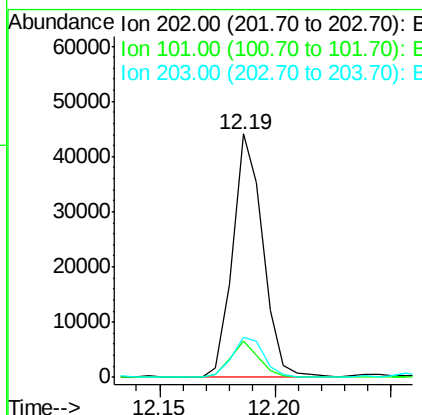
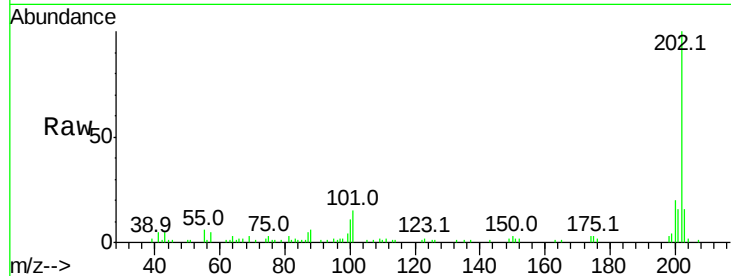




#74  
 Fluoranthene  
 Concen: 2.792 ng  
 RT: 12.19 min Scan# 1751  
 Delta R.T. -0.01 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

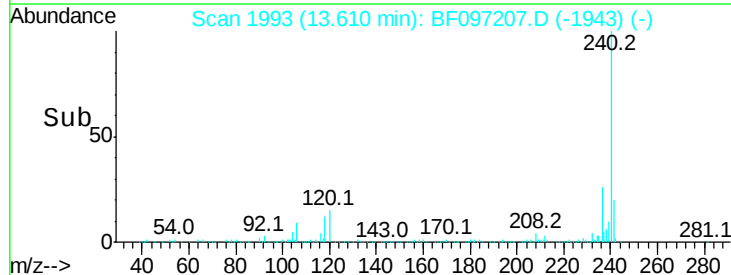
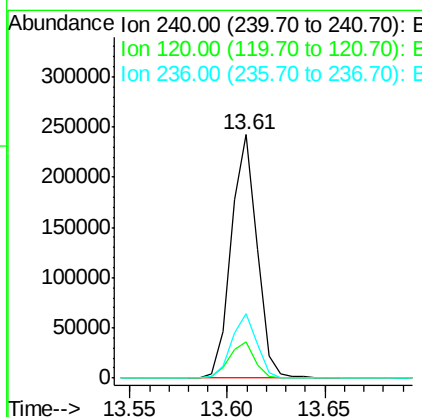
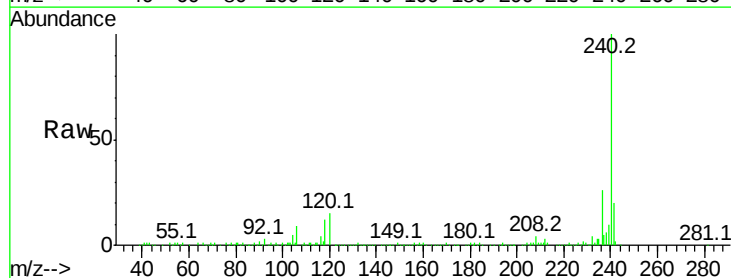
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-HS5-BASE

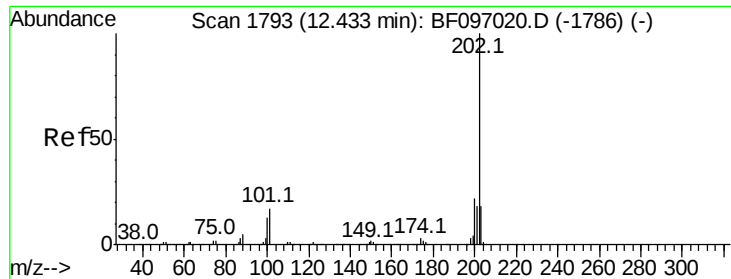
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 15.0  | 0.0   | 33.2  |
| 203     | 16.4  | 0.0   | 38.1  |



#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.61 min Scan# 1993  
 Delta R.T. -0.01 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 15.0  | 5.8   | 8.8#  |
| 236     | 26.4  | 20.5  | 30.7  |





#77

Pvrene

Concen: 2.461 ng

RT: 12.42 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF097207.D

Acq: 31 Jul 2017 14:56

Instrument :

BNA\_F

ClientSampleId :

E2-HS5-BASE

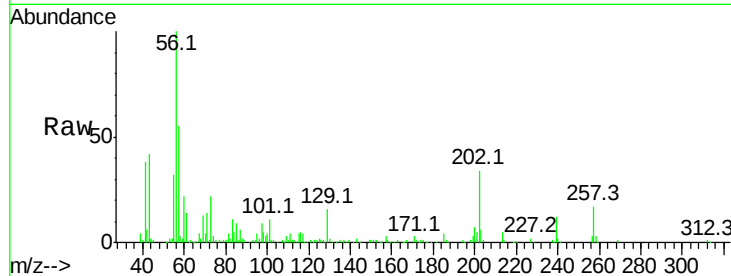
Tot Ion:202 Resp: 44738

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

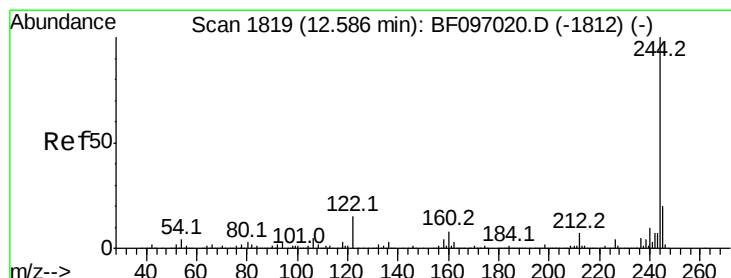
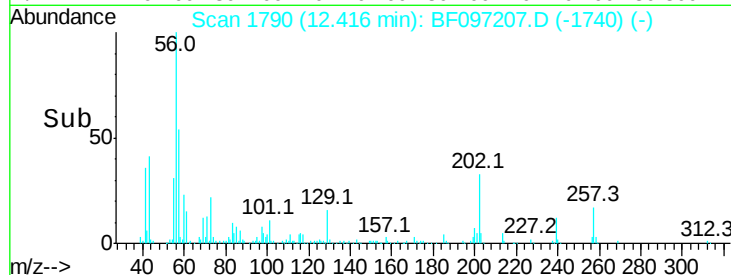
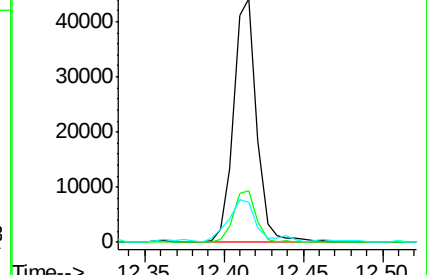
203 16.6 14.4 21.6



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: 26.251 ng

RT: 12.56 min Scan# 1815

Delta R.T. -0.01 min

Lab File: BF097207.D

Acq: 31 Jul 2017 14:56

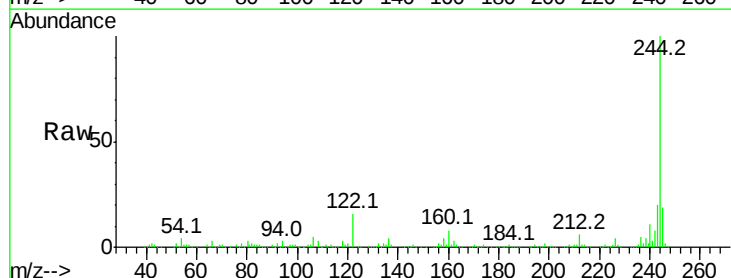
Tgt Ion:244 Resp: 285953

Ion Ratio Lower Upper

244 100

212 6.4 6.0 9.0

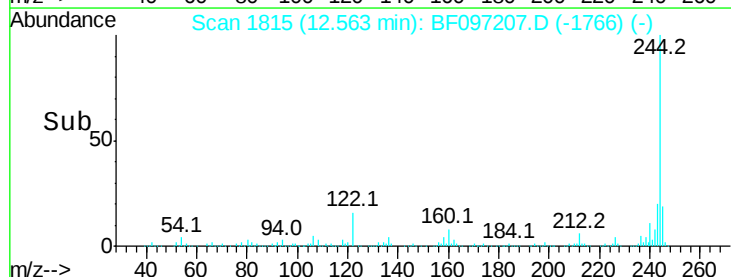
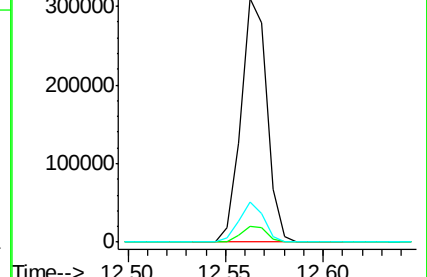
122 16.4 10.3 15.5#

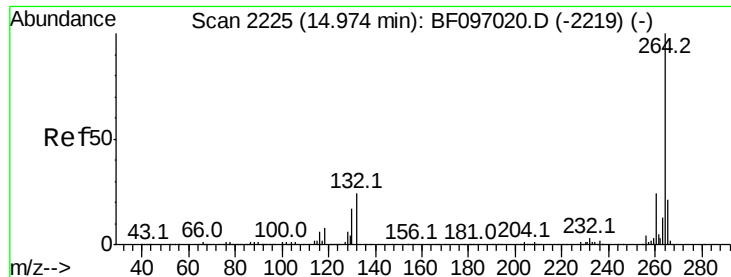


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



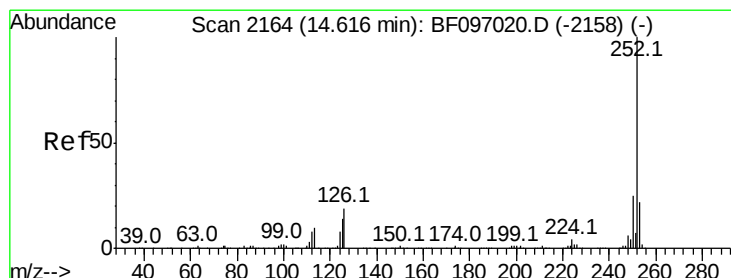
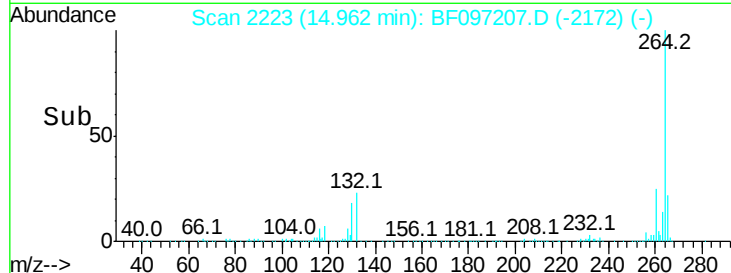
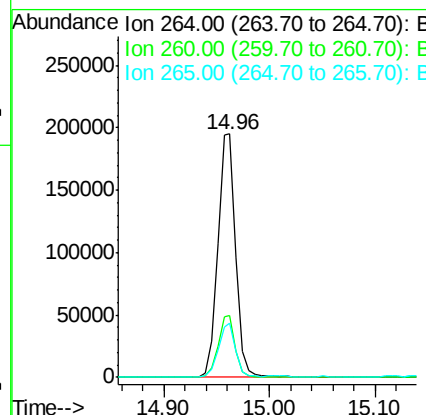
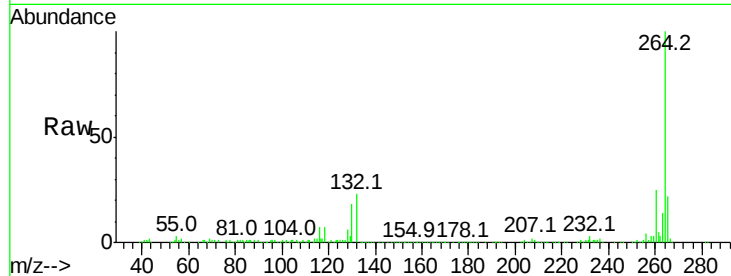


#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 14.96 min Scan# 2223  
Delta R.T. -0.00 min  
Lab File: BF097207.D  
Acq: 31 Jul 2017 14:56

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

Tot Ion:264 Resp: 233902  

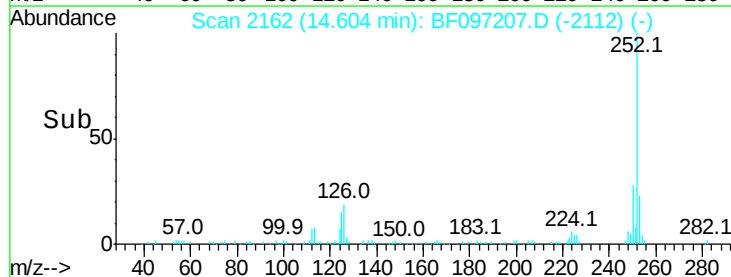
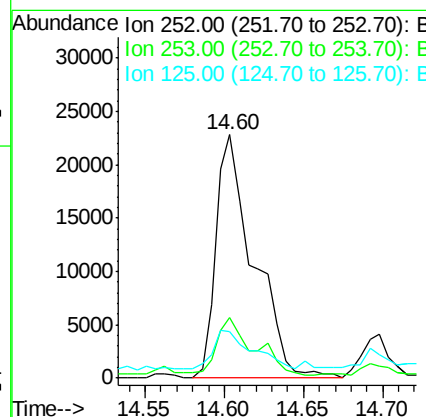
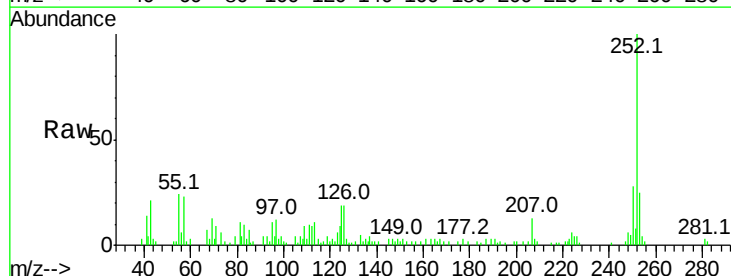
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 25.4  | 19.5  | 29.3  |
| 265 | 22.3  | 17.2  | 25.8  |

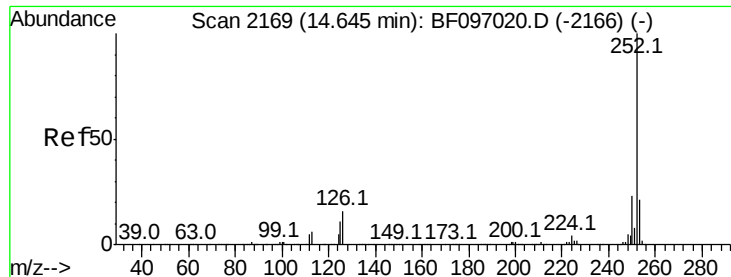


#87  
Benzo(b)fluoranthene  
Concen: 2.677 ng  
RT: 14.60 min Scan# 2162  
Delta R.T. -0.01 min  
Lab File: BF097207.D  
Acq: 31 Jul 2017 14:56

Tgt Ion:252 Resp: 37646  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.0  | 18.1  | 27.1  |
| 125 | 18.8  | 9.8   | 14.8# |

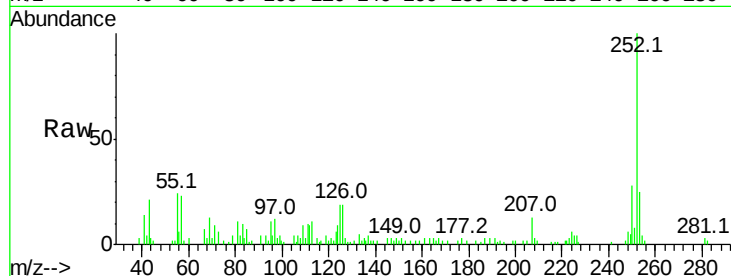




#88  
 Benzo(k)fluoranthene  
 Concen: 2.810 ng  
 RT: 14.60 min Scan# 2162  
 Delta R.T. -0.03 min  
 Lab File: BF097207.D  
 Acq: 31 Jul 2017 14:56

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

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.0  | 18.4  | 27.6  |
| 125     | 18.8  | 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

