

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080417\  
 Data File : BF097386.D  
 Acq On : 5 Aug 2017 5:57  
 Operator : SJ/JU  
 Sample : I4522-02DL 2X  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3D68DL

Quant Time: Aug 06 00:53:02 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 04 01:17:22 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.44  | 152  | 104879   | 20.00 | ng    | -0.06    |
| 21) Naphthalene-d8        | 7.72  | 136  | 433124   | 20.00 | ng    | -0.06    |
| 38) Acenaphthene-d10      | 9.46  | 164  | 162966   | 20.00 | ng    | -0.07    |
| 63) Phenanthrene-d10      | 10.93 | 188  | 224134   | 20.00 | ng    | -0.07    |
| 75) Chrysene-d12          | 13.56 | 240  | 164841   | 20.00 | ng    | -0.06    |
| 86) Perylene-d12          | 14.90 | 264  | 136172   | 20.00 | ng    | -0.07    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.03  | 112  | 308650   | 44.36 | ng    | -0.06    |
| 7) Phenol-d6                | 6.11  | 99   | 414285   | 52.16 | ng    | -0.06    |
| 23) Nitrobenzene-d5         | 7.00  | 82   | 216755   | 29.36 | ng    | -0.07    |
| 41) 2,4,6-Tribromophenol    | 10.25 | 330  | 50010    | 38.84 | ng    | -0.07    |
| 44) 2-Fluorobiphenyl        | 8.79  | 172  | 261751   | 27.26 | ng    | -0.08    |
| 78) Terphenyl-d14           | 12.52 | 244  | 160164   | 19.81 | ng    | -0.07    |

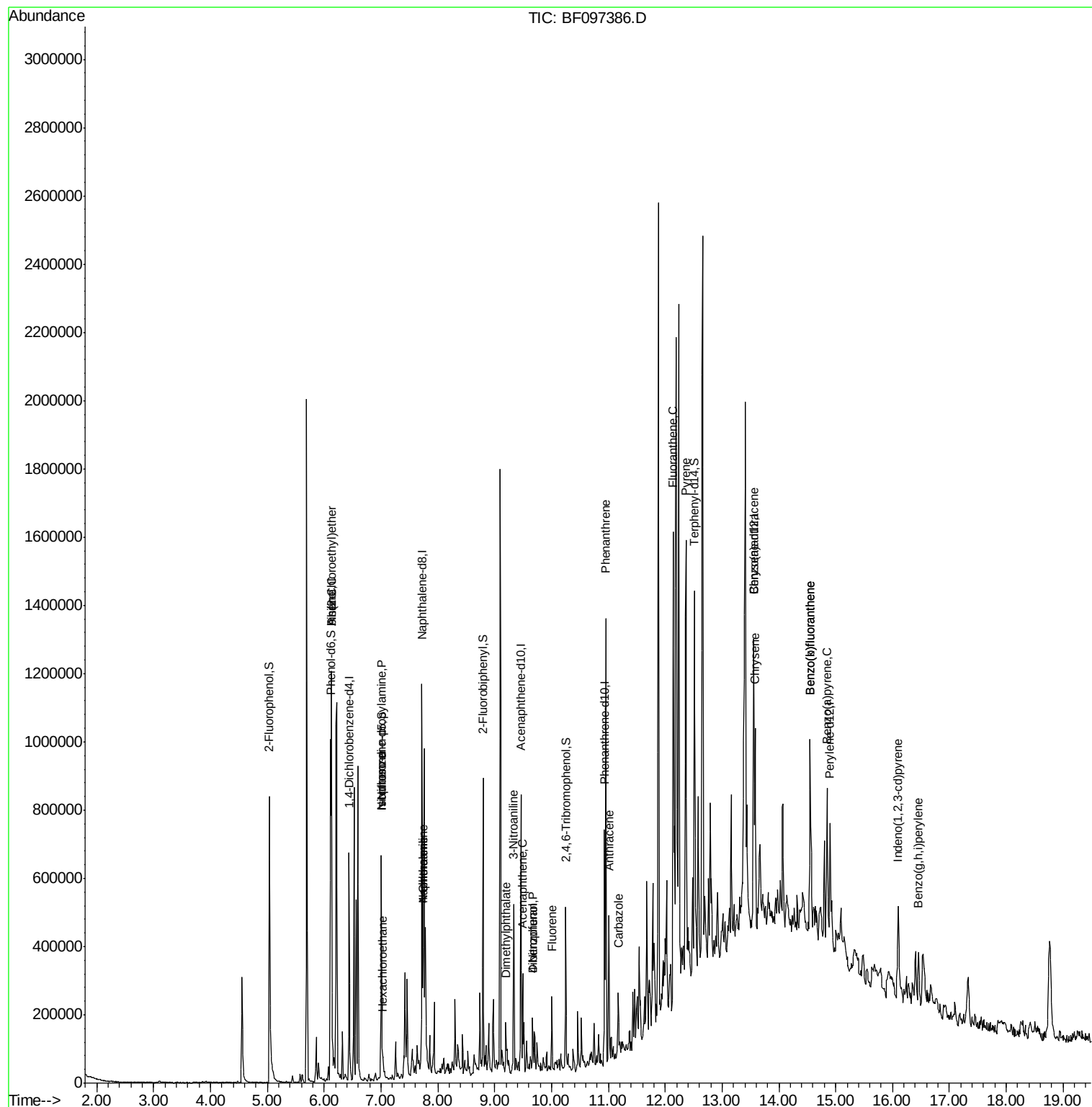
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 6) Aniline                     | 6.13  | 93   | 174807   | 17.49 | ng    | # 51   |
| 10) Phenol                     | 6.13  | 94   | 30909    | 3.28  | ng    | 70     |
| 11) bis(2-Chloroethyl)ether    | 6.13  | 93   | 174807   | 23.46 | ng    | # 22   |
| 18) Hexachloroethane           | 7.03  | 117  | 6768     | 2.33  | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.00  | 70   | 30824    | 5.90  | ng    | # 87   |
| 25) Isophorone                 | 7.00  | 82   | 212590   | 14.70 | ng    | # 67   |
| 31) Naphthalene                | 7.74  | 128  | 139168   | 6.82  | ng    | 100    |
| 33) 4-Chloroaniline            | 7.74  | 127  | 18268    | 2.20  | ng    | # 37   |
| 49) Dimethylphthalate          | 9.20  | 163  | 54317    | 4.39  | ng    | 98     |
| 51) Acenaphthene               | 9.49  | 154  | 46214    | 4.99  | ng    | 97     |
| 52) 3-Nitroaniline             | 9.34  | 138  | 13152    | 4.04  | ng    | # 6    |
| 54) Dibenzofuran               | 9.67  | 168  | 51208    | 4.15  | ng    | 97     |
| 55) 4-Nitrophenol              | 9.67  | 139  | 19290    | 9.96  | ng    | # 33   |
| 57) Fluorene                   | 10.00 | 166  | 58955    | 6.36  | ng    | 96     |
| 70) Phenanthrene               | 10.96 | 178  | 449358   | 37.42 | ng    | 99     |
| 71) Anthracene                 | 11.01 | 178  | 139861   | 11.37 | ng    | 99     |
| 72) Carbazole                  | 11.17 | 167  | 73296    | 6.06  | ng    | 97     |
| 74) Fluoranthene               | 12.14 | 202  | 565117   | 48.03 | ng    | 98     |
| 77) Pyrene                     | 12.37 | 202  | 470051   | 34.83 | ng    | 99     |
| 80) Benzo(a)anthracene         | 13.55 | 228  | 245259   | 22.99 | ng    | 98     |
| 82) Chrysene                   | 13.59 | 228  | 201658   | 19.36 | ng    | 98     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.10 | 276  | 94744    | 10.61 | ng    | 97     |
| 87) Benzo(b)fluoranthene       | 14.55 | 252  | 314779   | 38.46 | ng    | # 96   |
| 88) Benzo(k)fluoranthene       | 14.55 | 252  | 314779   | 40.36 | ng    | 99     |
| 89) Benzo(a)pyrene             | 14.85 | 252  | 172421   | 23.02 | ng    | 96     |
| 91) Benzo(g,h,i)perylene       | 16.46 | 276  | 86801    | 13.47 | ng    | 93     |

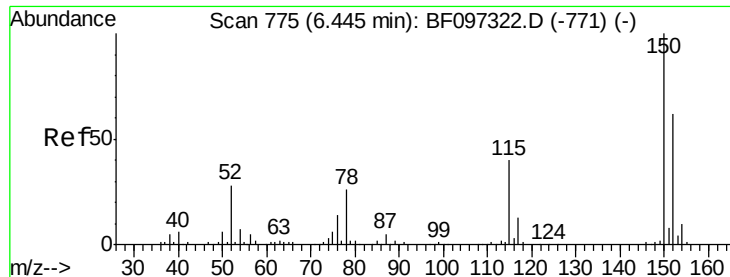
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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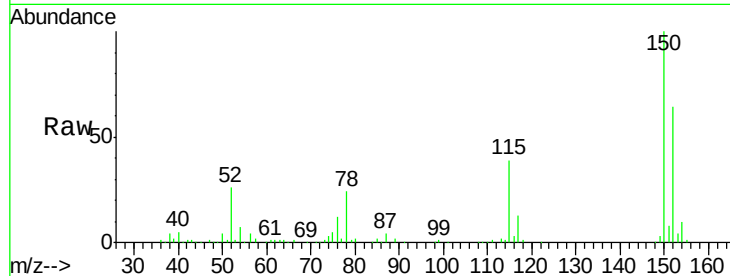


#1

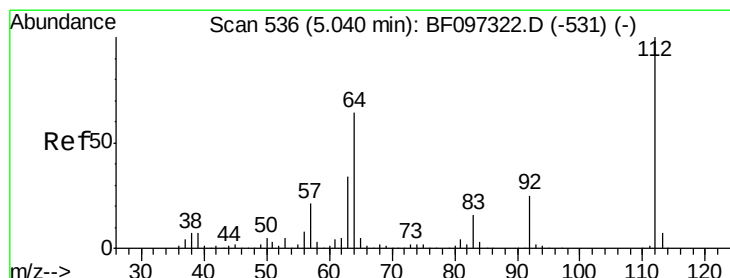
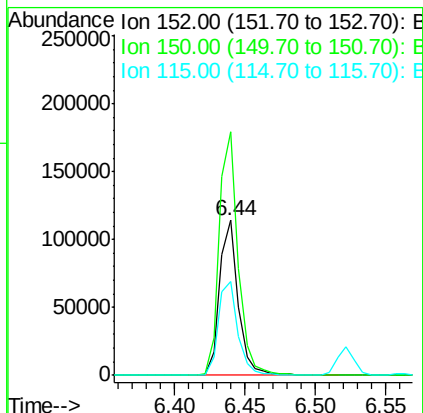
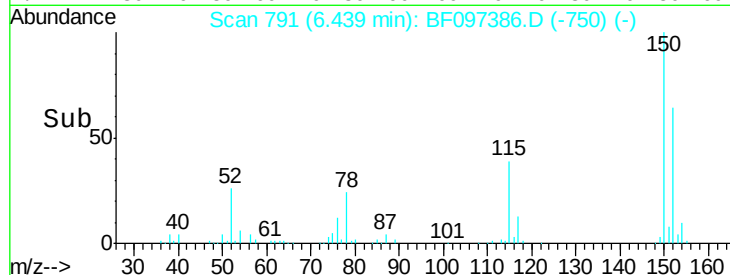
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.44 min Scan# 791  
Delta R.T. -0.06 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3D68DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.2 | 126.2 | 189.2 |
| 115     | 60.7  | 52.2  | 78.2  |



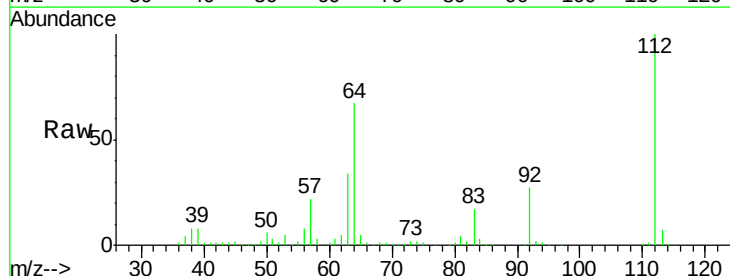
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



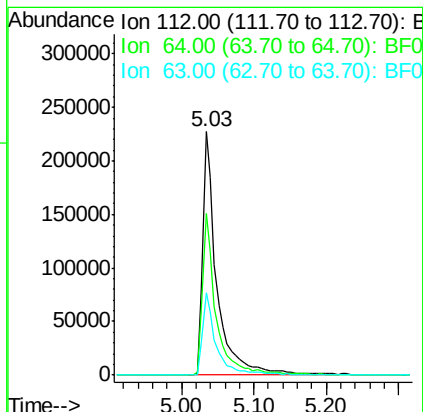
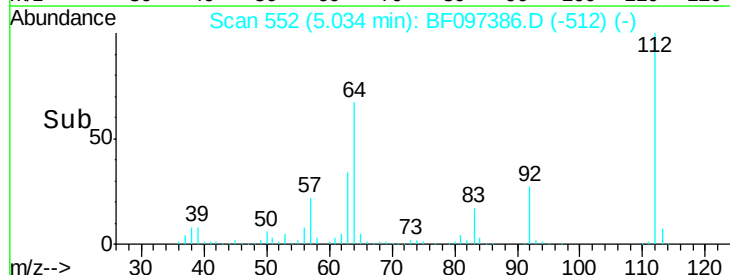
#5

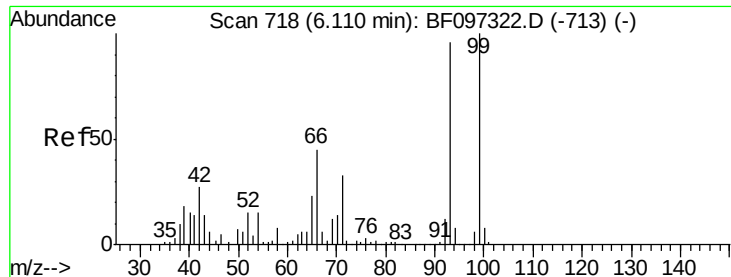
2-Fluorophenol  
Concen: 44.36 ng  
RT: 5.03 min Scan# 552  
Delta R.T. -0.06 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.6  | 46.0  | 69.0  |
| 63      | 33.7  | 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





#6

Aniline

Concen: 17.49 ng

RT: 6.13 min Scan# 738

Delta R.T. -0.04 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Instrument :

BNA\_F

ClientSampleId :

TP-3D68DL

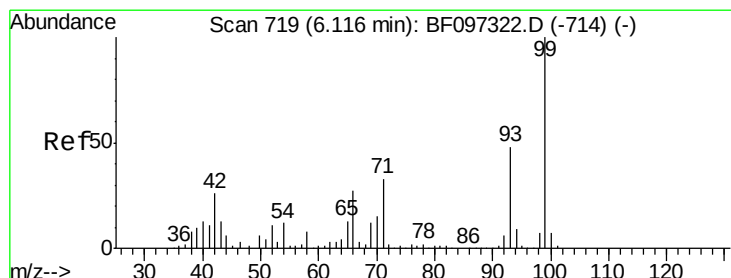
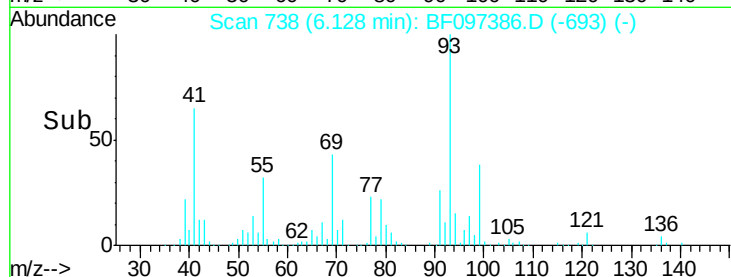
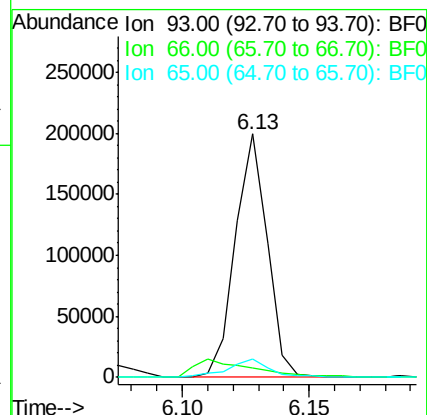
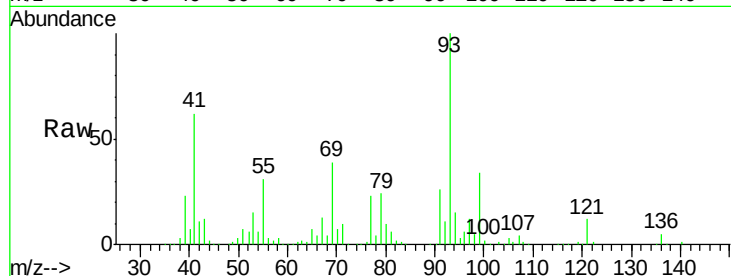
Tot Ion: 93 Resp: 174807

Ion Ratio Lower Upper

93 100

66 4.0 32.9 49.3#

65 7.4 16.0 24.0#



#7

Phenol-d6

Concen: 52.16 ng

RT: 6.11 min Scan# 735

Delta R.T. -0.06 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

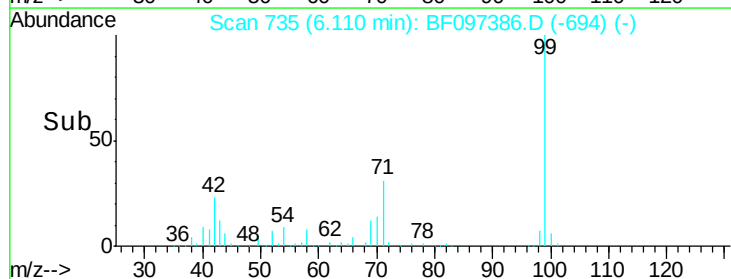
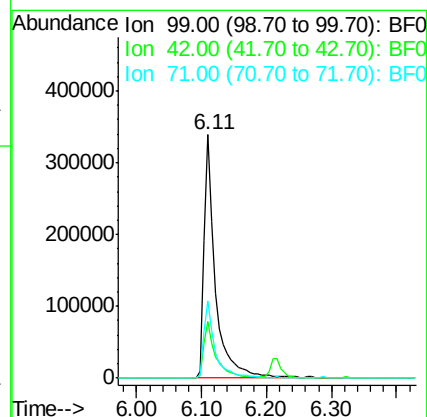
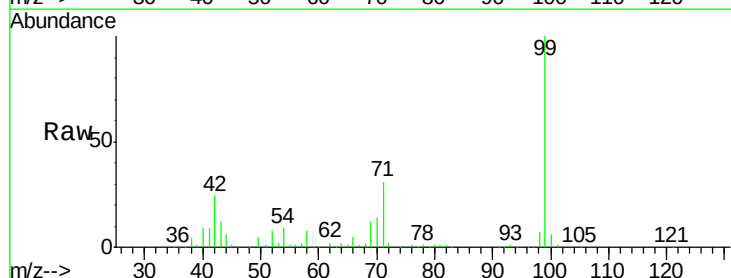
Tgt Ion: 99 Resp: 414285

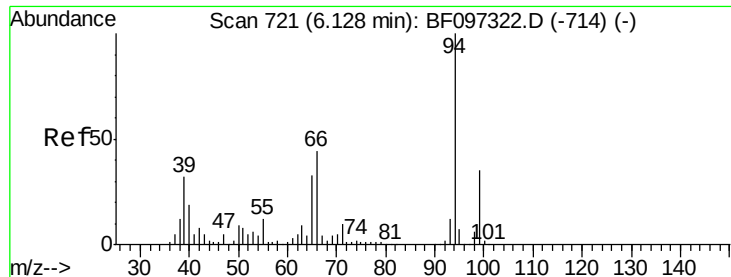
Ion Ratio Lower Upper

99 100

42 23.6 13.5 20.3#

71 31.5 24.5 36.7





#10

Phenol

Concen: 3.28 ng

RT: 6.13 min Scan# 738

Delta R.T. -0.05 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Instrument :

BNA\_F

ClientSampleID :

TP-3D68DL

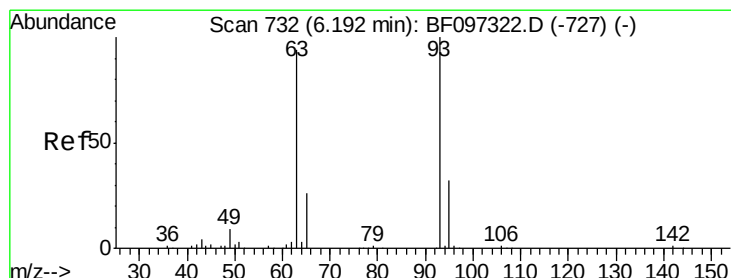
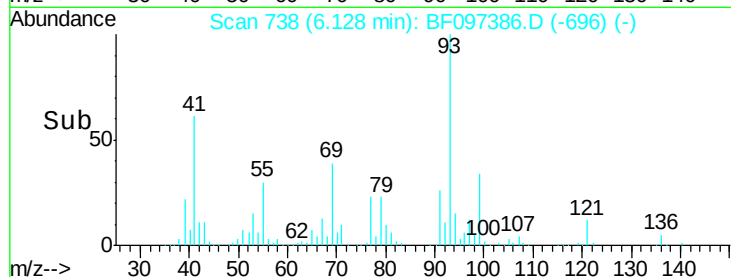
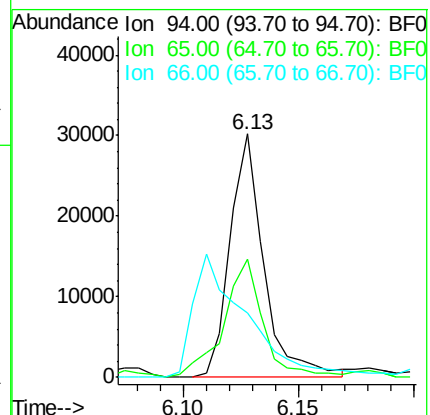
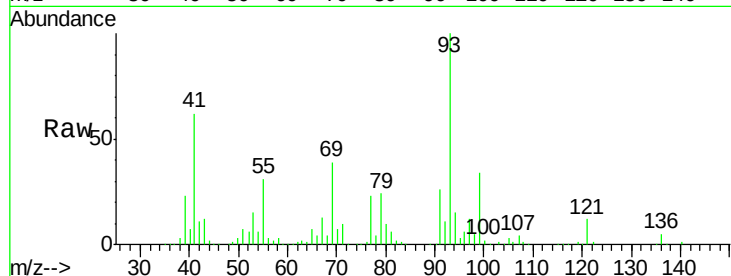
Tot Ion: 94 Resp: 30909

Ion Ratio Lower Upper

94 100

65 48.6 9.9 49.9

66 26.3 23.1 63.1



#11

bis(2-Chloroethyl)ether

Concen: 23.46 ng

RT: 6.13 min Scan# 738

Delta R.T. -0.12 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

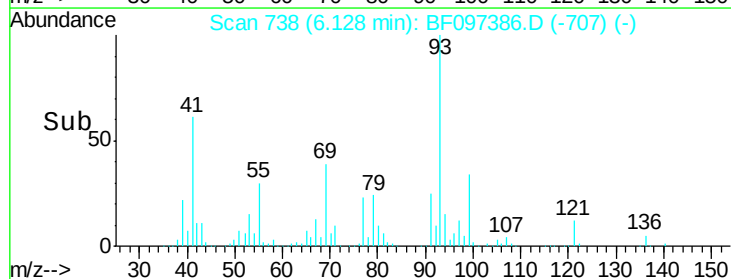
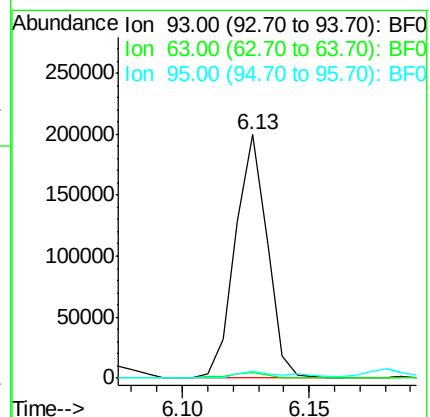
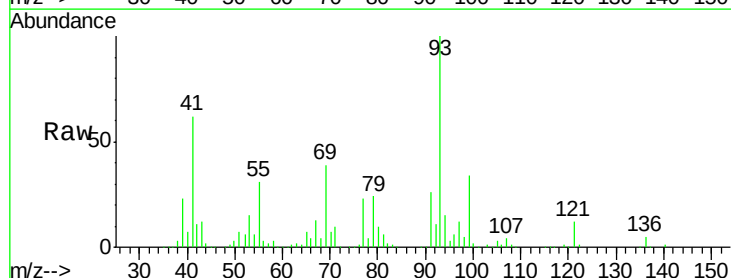
Tgt Ion: 93 Resp: 174807

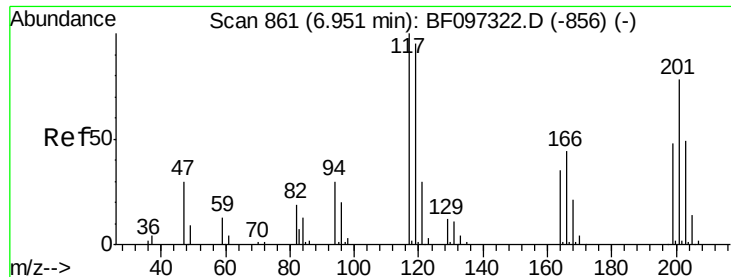
Ion Ratio Lower Upper

93 100

63 2.3 59.2 99.2#

95 2.8 12.8 52.8#





#18

Hexachloroethane

Concen: 2.33 ng

RT: 7.03 min Scan# 892

Delta R.T. 0.02 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Instrument :

BNA\_F

ClientSampleId :

TP-3D68DL

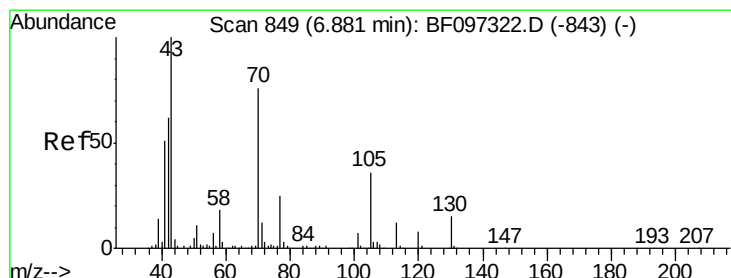
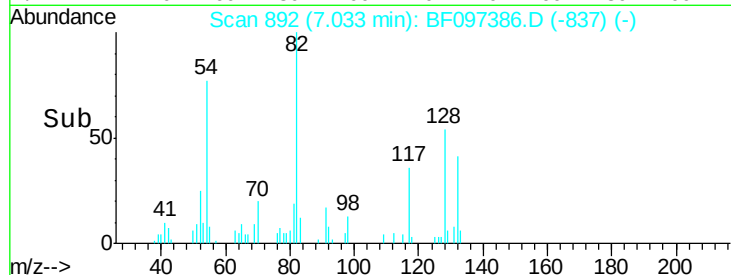
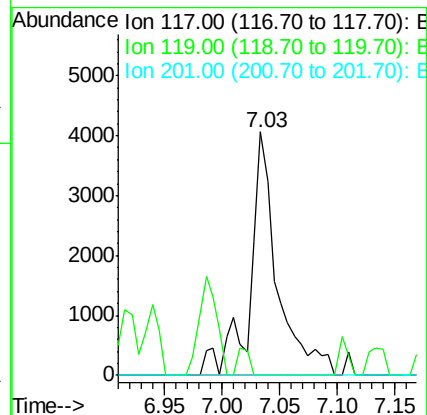
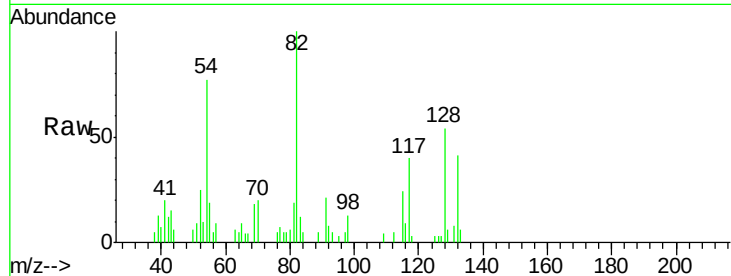
Tot Ion:117 Resp: 6768

Ion Ratio Lower Upper

117 100

119 0.0 77.4 116.0#

201 0.0 94.6 141.8#



#19

n-Nitroso-di-n-propylamine

Concen: 5.90 ng

RT: 7.00 min Scan# 887

Delta R.T. 0.07 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Tgt Ion: 70 Resp: 30824

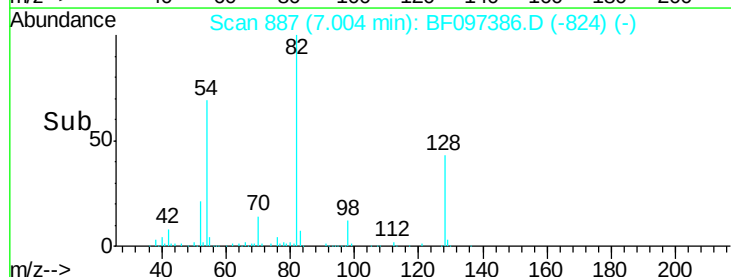
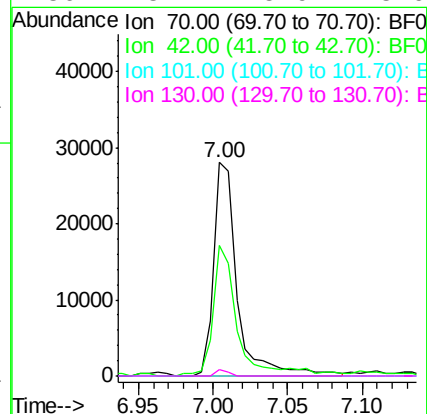
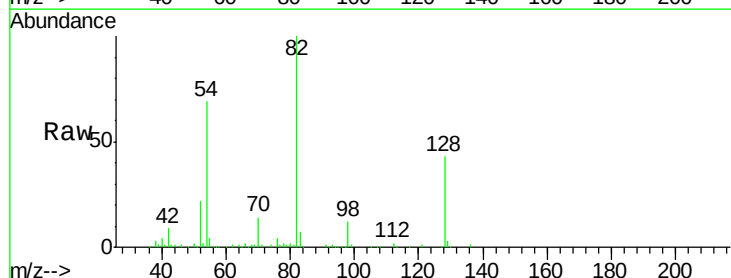
Ion Ratio Lower Upper

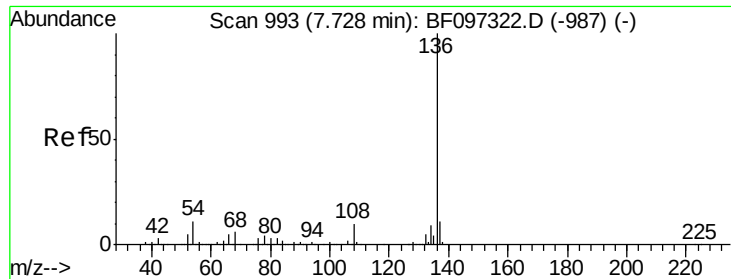
70 100

42 61.4 47.2 70.8

101 0.0 7.2 10.8#

130 3.1 15.9 23.9#

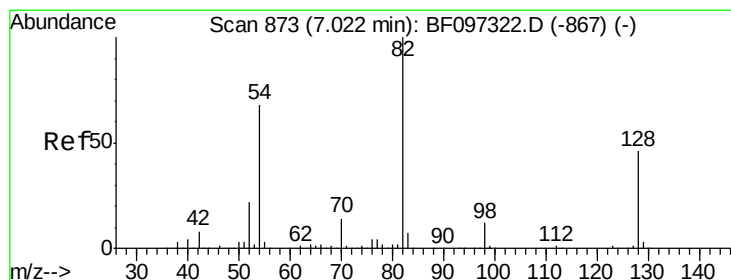
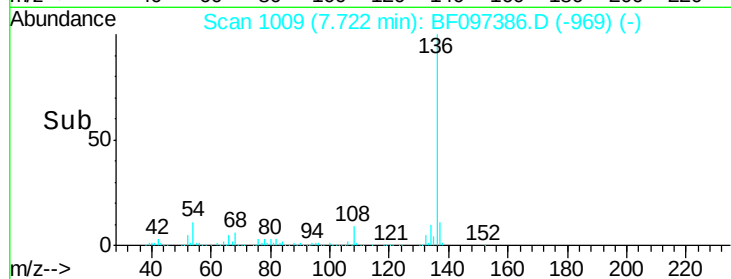
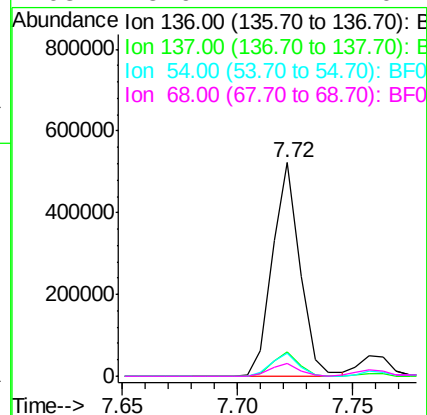
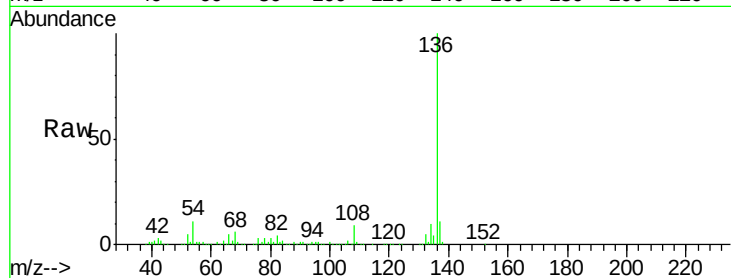




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.72 min Scan# 1009  
Delta R.T. -0.06 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

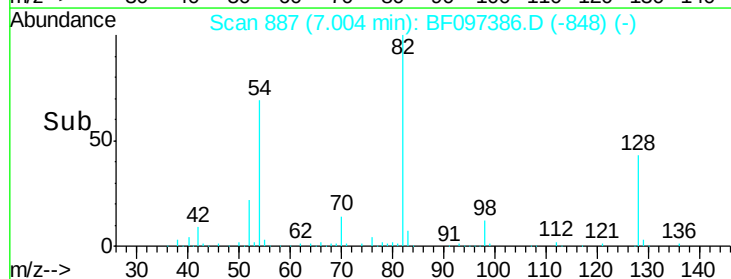
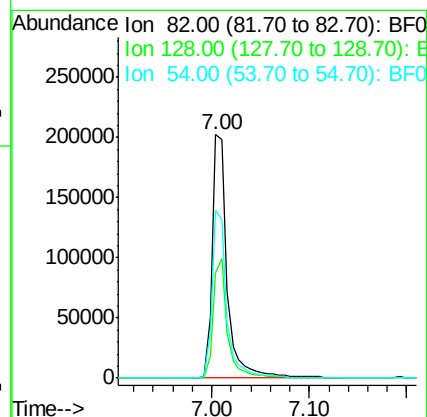
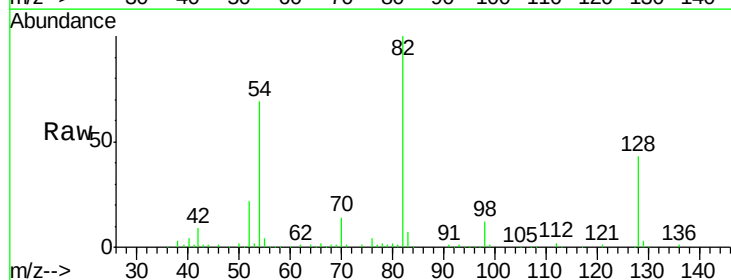
Instrument :  
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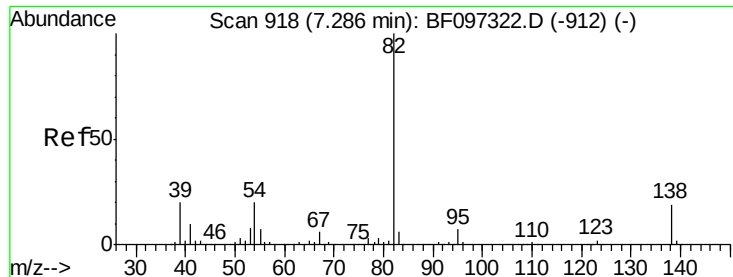
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 433124   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.4  | 8.5 12.7 |
| 54          | 10.6  | 4.9 7.3# |
| 68          | 5.9   | 4.1 6.1  |



#23  
Nitrobenzene-d5  
Concen: 29.36 ng  
RT: 7.00 min Scan# 887  
Delta R.T. -0.07 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 216755     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 43.3  | 34.0 51.0  |
| 54          | 69.3  | 42.2 63.2# |





#25

Isophorone

Concen: 14.70 ng

RT: 7.00 min Scan# 887

Delta R.T. -0.34 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Instrument :

BNA\_F

ClientSampleId :

TP-3D68DL

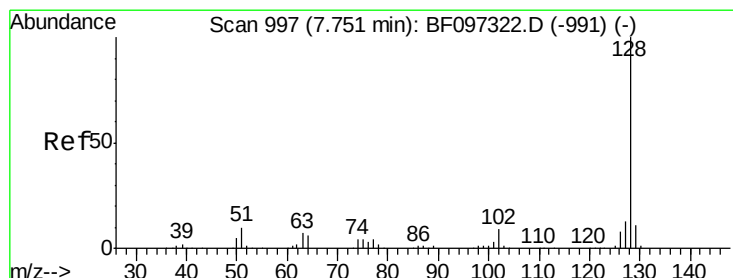
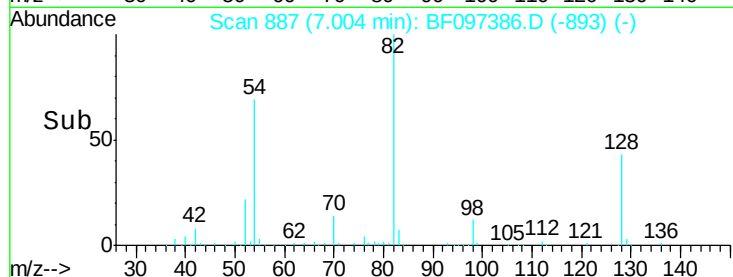
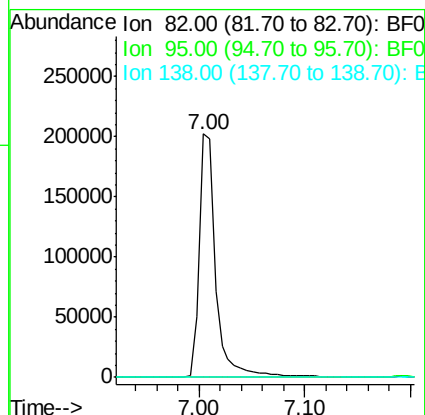
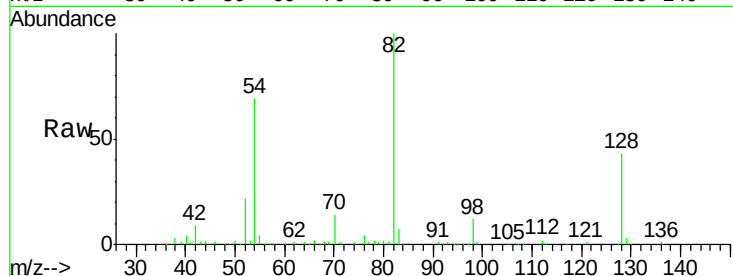
Tot Ion: 82 Resp: 212590

Ion Ratio Lower Upper

82 100

95 0.2 5.3 7.9#

138 0.0 13.1 19.7#



#31

Naphthalene

Concen: 6.82 ng

RT: 7.74 min Scan# 1012

Delta R.T. -0.07 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

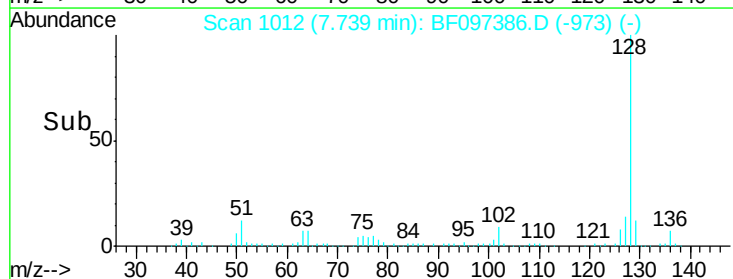
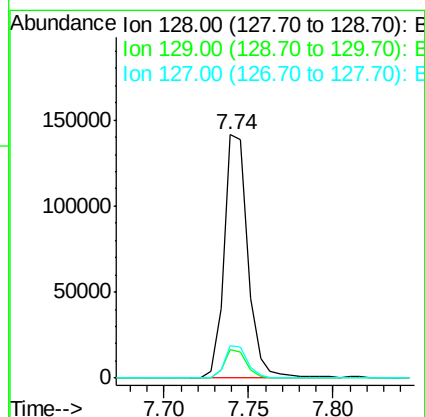
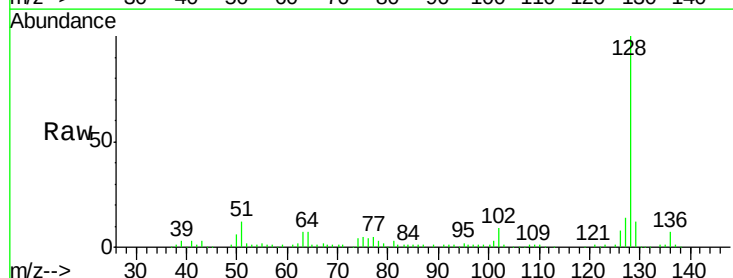
Tgt Ion: 128 Resp: 139168

Ion Ratio Lower Upper

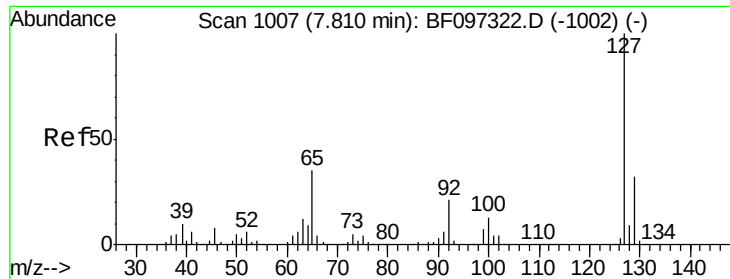
128 100

129 11.5 9.0 13.6

127 13.5 10.8 16.2



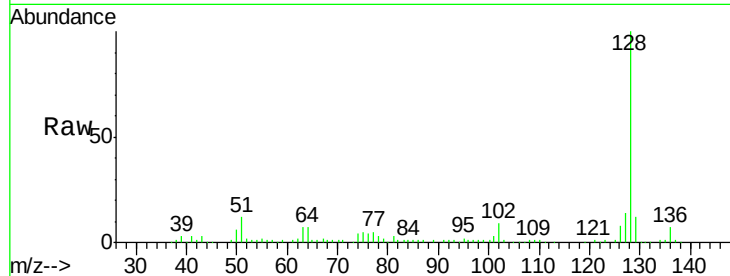




#33  
4-Chloroaniline  
Concen: 2.20 ng  
RT: 7.74 min Scan# 1012  
Delta R.T. -0.12 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3D68DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 85.0  | 26.2  | 39.2# |
| 65      | 5.4   | 27.8  | 41.8# |
| 92      | 3.9   | 16.8  | 25.2# |



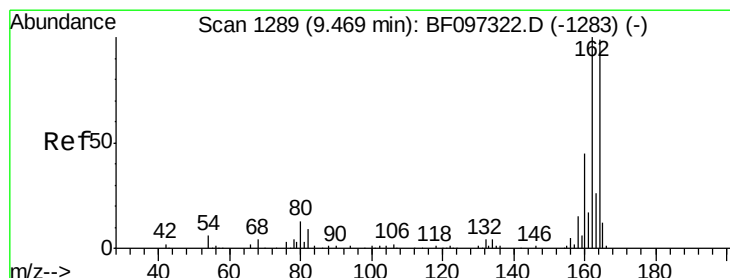
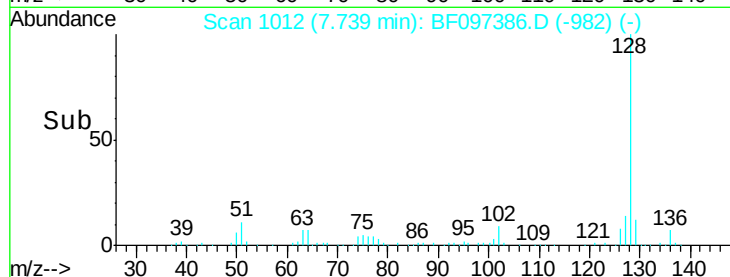
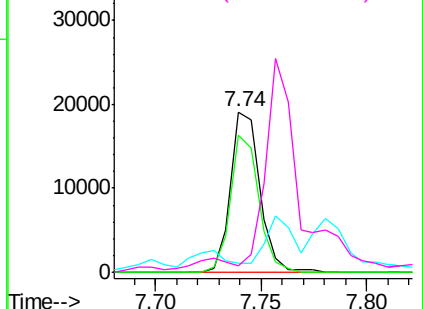
Abundance

Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

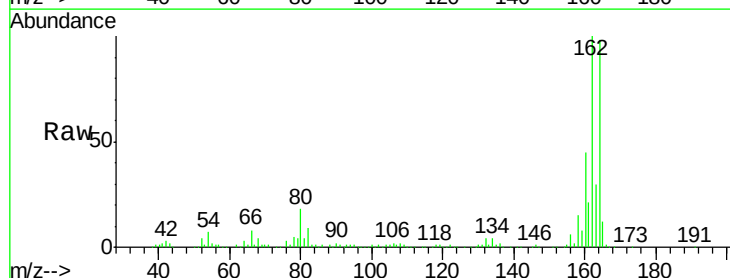
Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.46 min Scan# 1305  
Delta R.T. -0.07 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.6 | 82.6  | 123.8 |
| 160     | 45.5  | 36.2  | 54.2  |

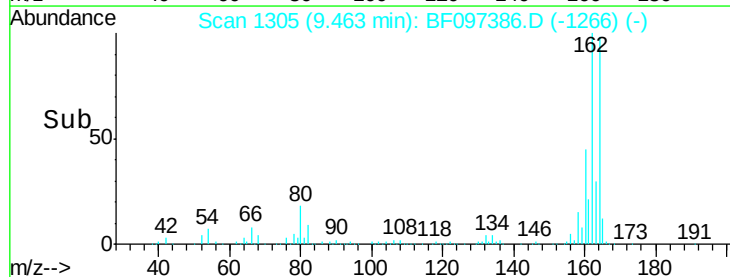
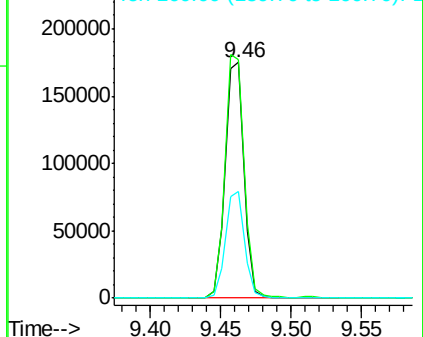


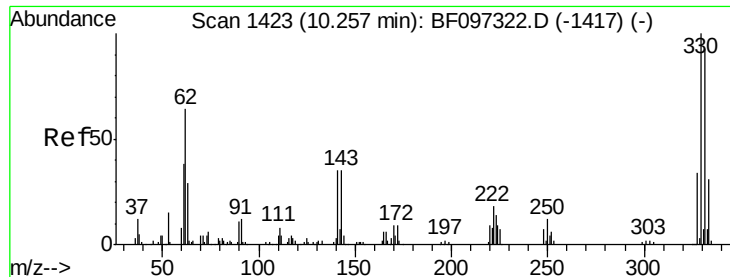
Abundance

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

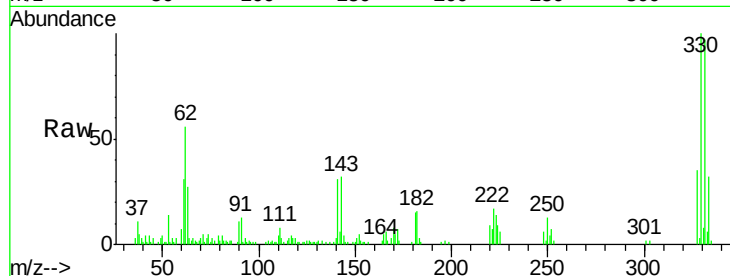




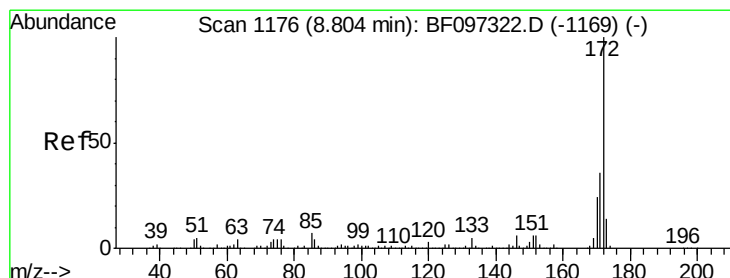
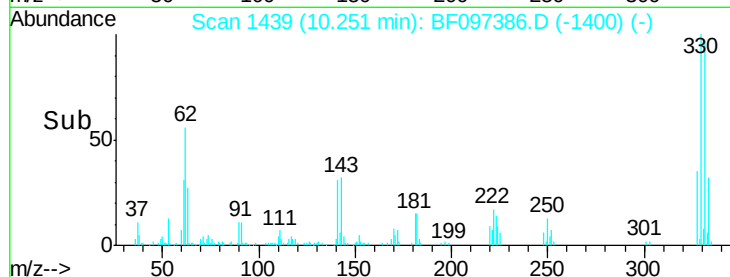
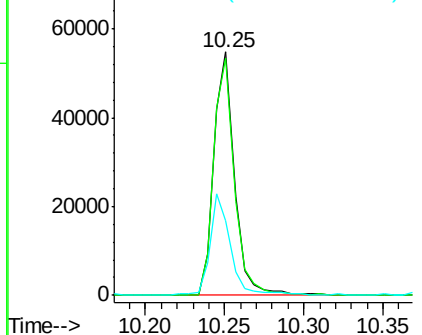
#41  
 2,4,6-Tribromophenol  
 Concen: 38.84 ng  
 RT: 10.25 min Scan# 1439  
 Delta R.T. -0.07 min  
 Lab File: BF097386.D  
 Acq: 5 Aug 2017 5:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3D68DL

Tot Ion:330 Resp: 50010  
 Ion Ratio Lower Upper  
 330 100  
 332 97.9 76.6 115.0  
 141 41.9 31.4 47.2

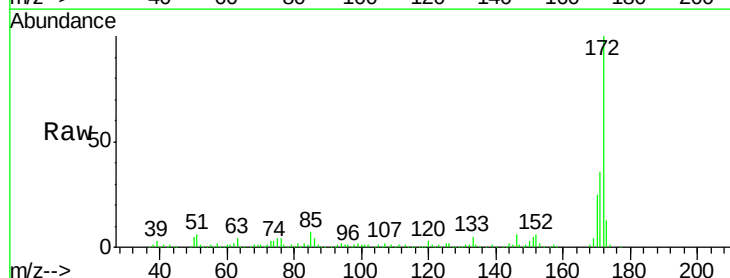


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

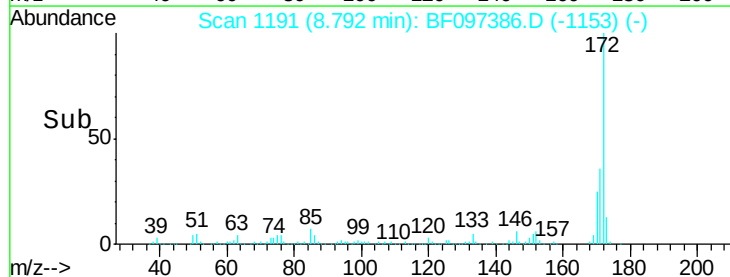
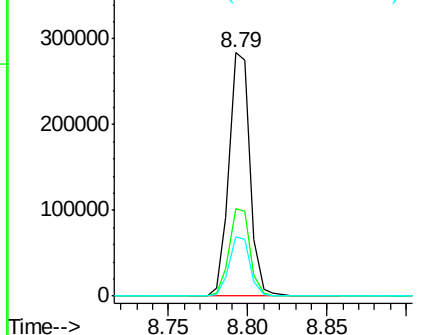


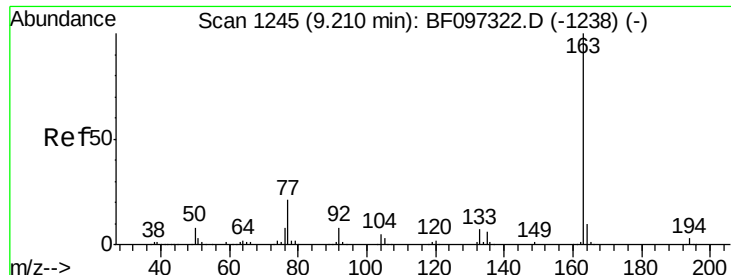
#44  
 2-Fluorobiphenyl  
 Concen: 27.26 ng  
 RT: 8.79 min Scan# 1191  
 Delta R.T. -0.08 min  
 Lab File: BF097386.D  
 Acq: 5 Aug 2017 5:57

Tgt Ion:172 Resp: 261751  
 Ion Ratio Lower Upper  
 172 100  
 171 35.9 29.6 44.4  
 170 24.5 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

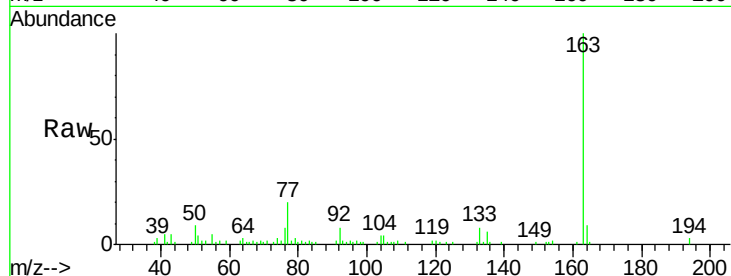




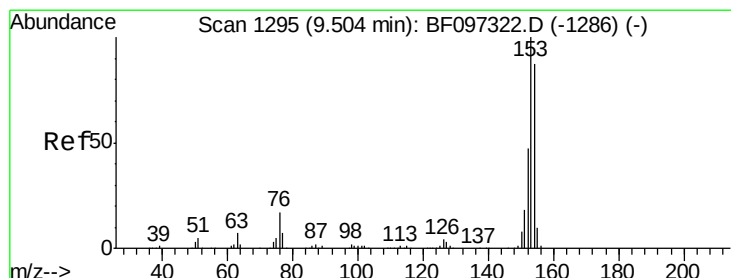
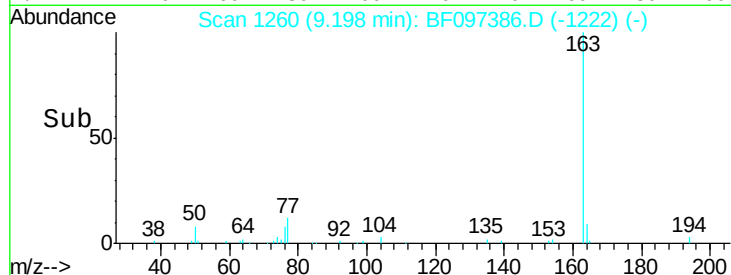
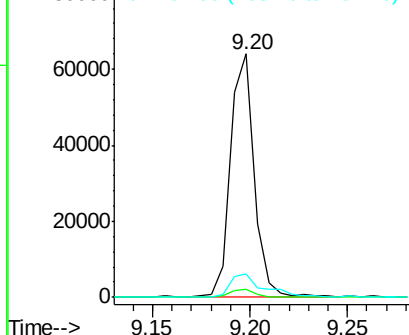
#49  
Dimethylphthalate  
Concen: 4.39 ng  
RT: 9.20 min Scan# 1260  
Delta R.T. -0.08 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3D68DL

Tot Ion:163 Resp: 54317  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.6 4.0  
164 9.4 8.4 12.6

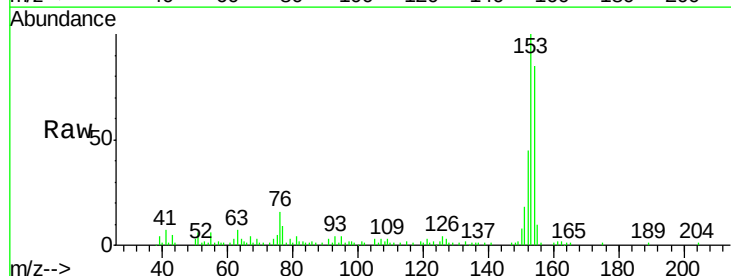


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

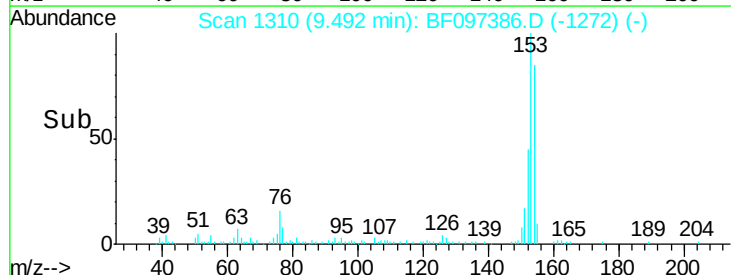
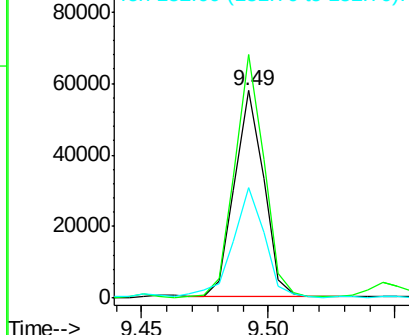


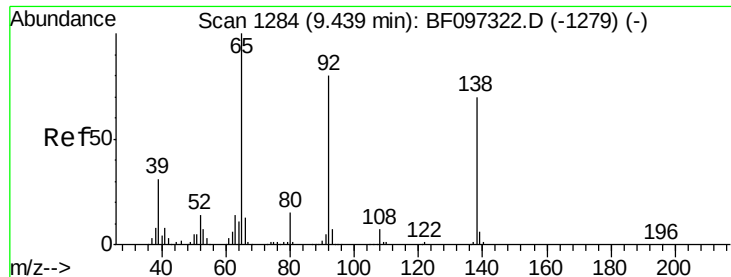
#51  
Acenaphthene  
Concen: 4.99 ng  
RT: 9.49 min Scan# 1310  
Delta R.T. -0.08 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

Tgt Ion:154 Resp: 46214  
Ion Ratio Lower Upper  
154 100  
153 117.5 90.5 135.7  
152 53.4 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





#52

3-Nitroaniline

Concen: 4.04 ng

RT: 9.34 min Scan# 1284

Delta R.T. -0.16 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Instrument :

BNA\_F

ClientSampleId :

TP-3D68DL

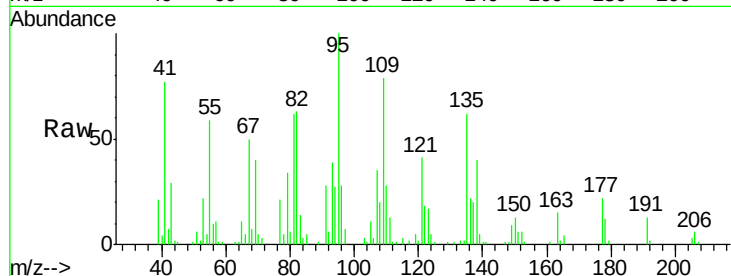
Tot Ion:138 Resp: 13152

Ion Ratio Lower Upper

138 100

108 48.8 9.1 13.7#

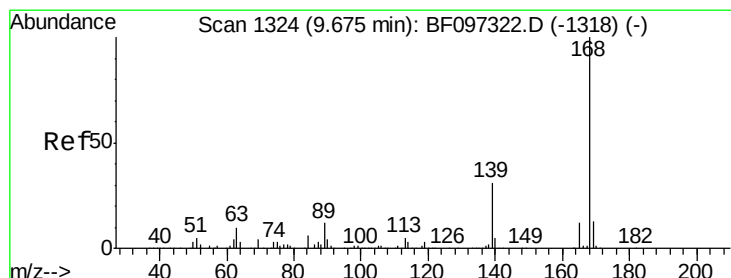
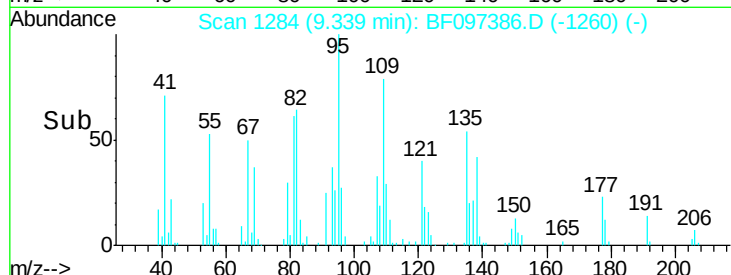
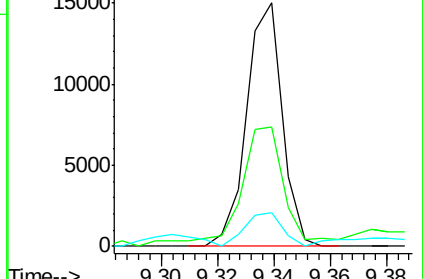
92 14.1 93.8 140.6#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0



#54

Dibenzofuran

Concen: 4.15 ng

RT: 9.67 min Scan# 1340

Delta R.T. -0.07 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

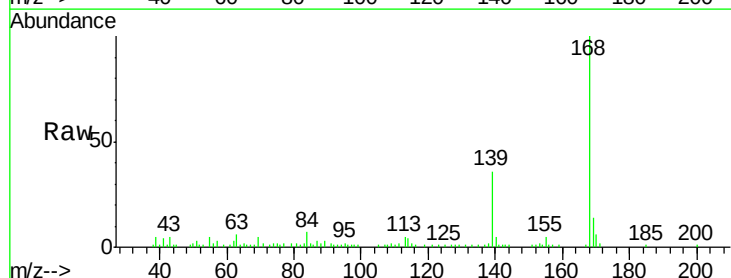
Tgt Ion:168 Resp: 51208

Ion Ratio Lower Upper

168 100

139 36.2 30.6 45.8

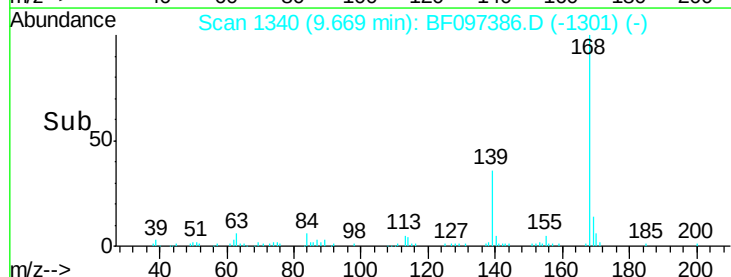
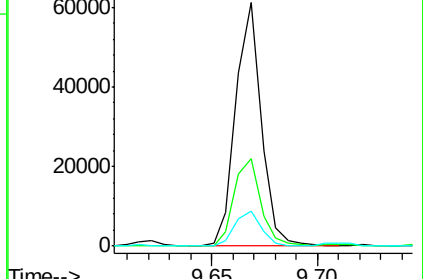
169 14.2 10.8 16.2

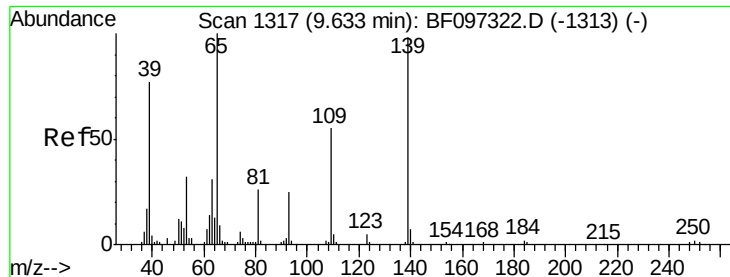


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

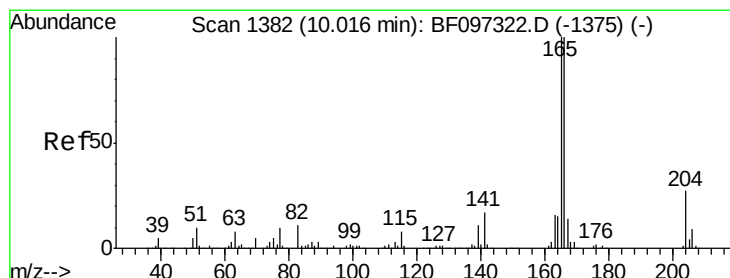
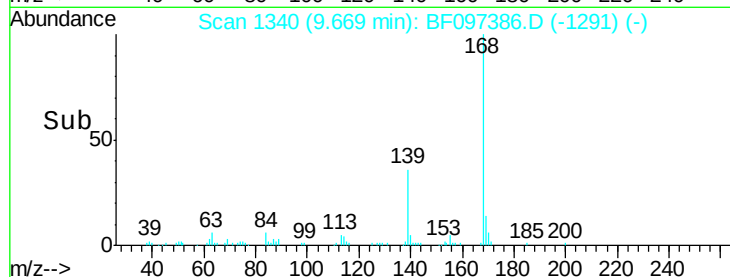
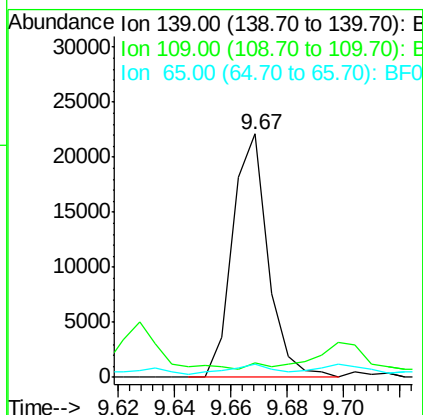
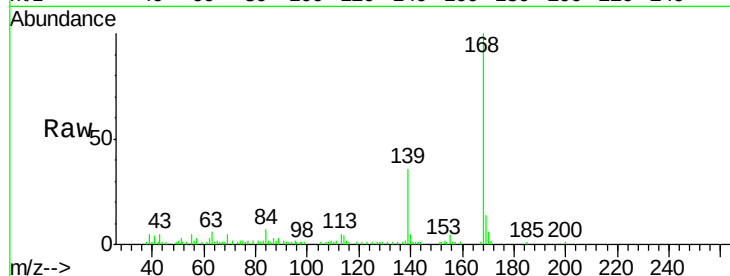




#55  
4-Nitrophenol  
Concen: 9.96 ng  
RT: 9.67 min Scan# 1340  
Delta R.T. -0.01 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

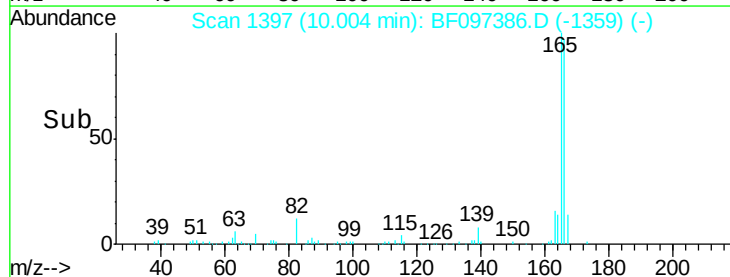
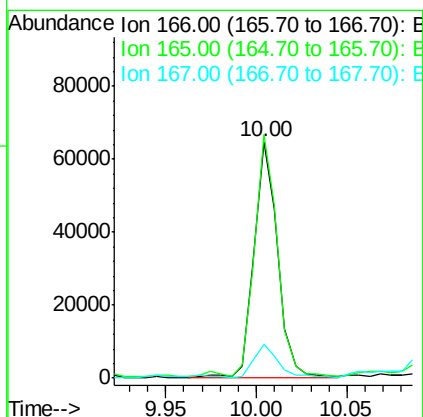
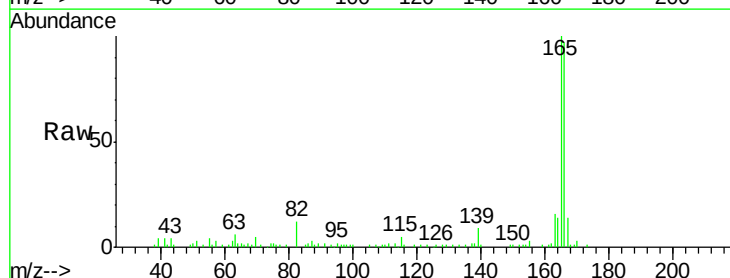
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3D68DL

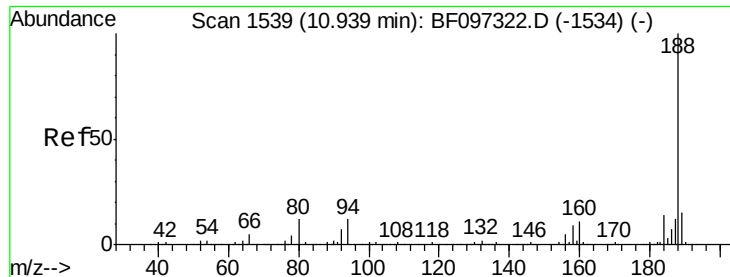
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 5.8   | 34.1  | 74.1# |
| 65      | 5.2   | 31.4  | 71.4# |



#57  
Fluorene  
Concen: 6.36 ng  
RT: 10.00 min Scan# 1397  
Delta R.T. -0.08 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 103.2 | 78.8  | 118.2 |
| 167     | 14.1  | 10.6  | 16.0  |

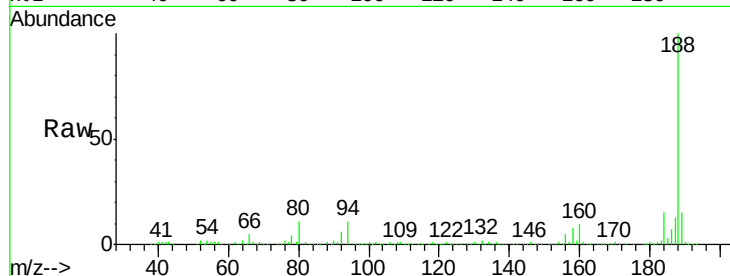




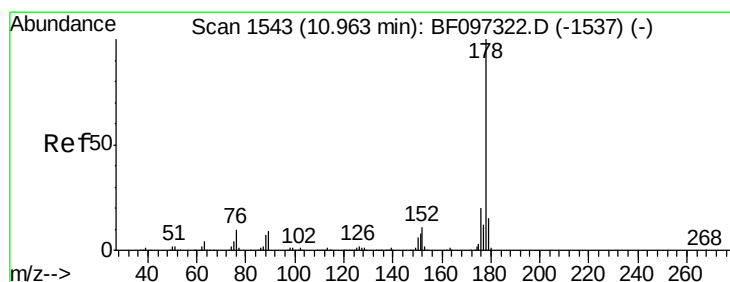
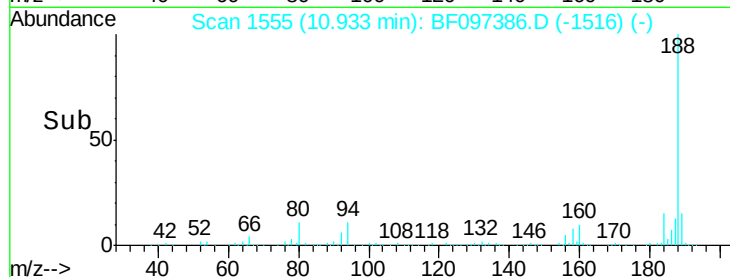
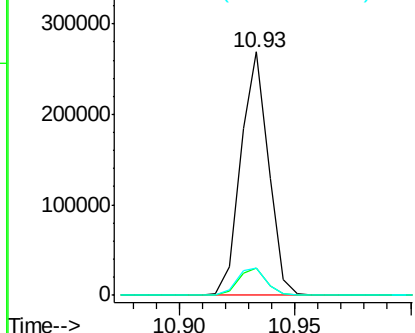
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 10.93 min Scan# 1555  
 Delta R.T. -0.07 min  
 Lab File: BF097386.D  
 Acq: 5 Aug 2017 5:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3D68DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.2  | 9.4   | 14.2  |
| 80      | 11.0  | 10.2  | 15.2  |

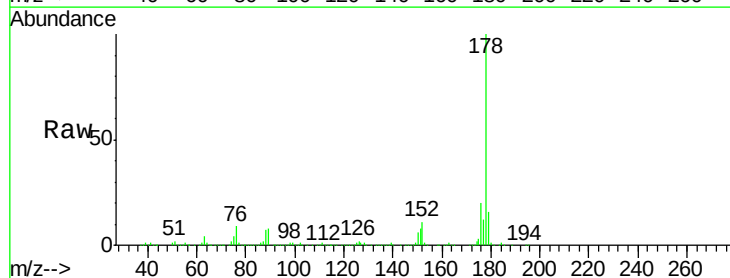


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

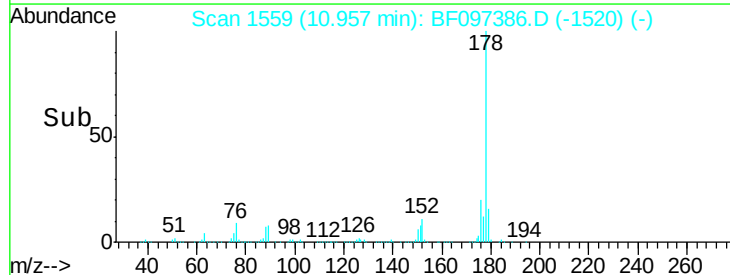
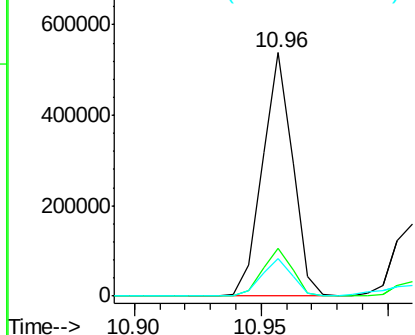


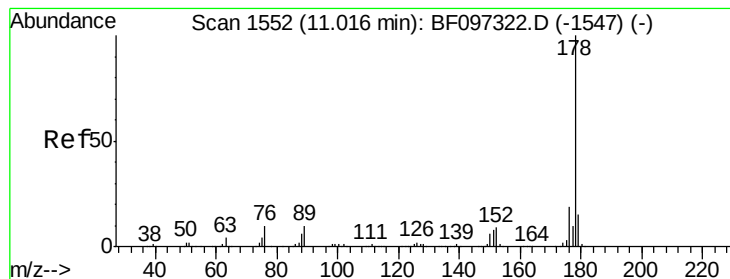
#70  
 Phenanthrene  
 Concen: 37.42 ng  
 RT: 10.96 min Scan# 1559  
 Delta R.T. -0.07 min  
 Lab File: BF097386.D  
 Acq: 5 Aug 2017 5:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 16.2  | 24.4  |
| 179     | 15.7  | 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: 11.37 ng

RT: 11.01 min Scan# 1568

Delta R.T. -0.07 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Instrument :

BNA\_F

ClientSampleId :

TP-3D68DL

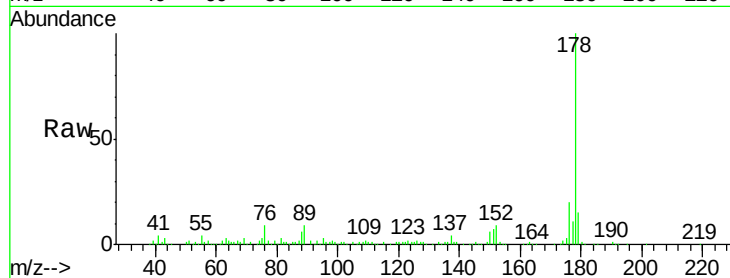
Tot Ion:178 Resp: 139861

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

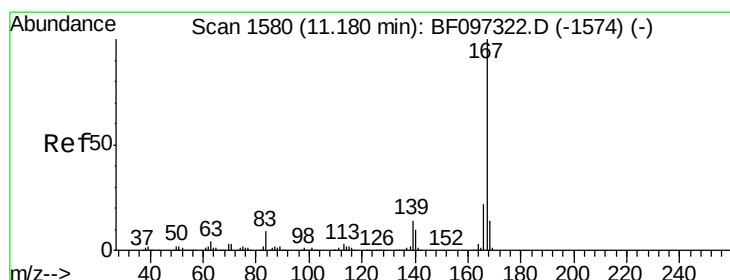
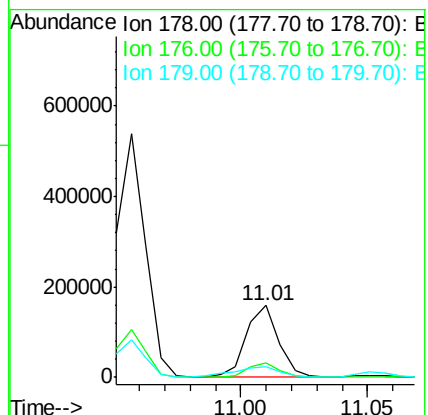
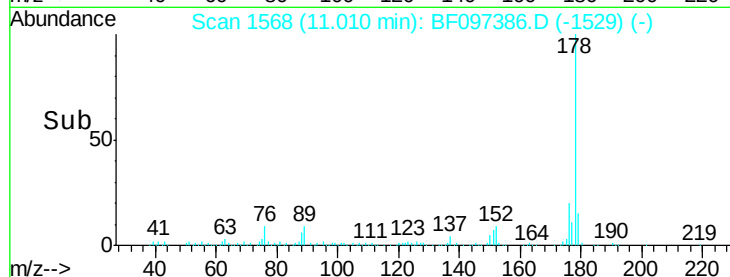
179 15.1 12.7 19.1



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: 6.06 ng

RT: 11.17 min Scan# 1596

Delta R.T. -0.06 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

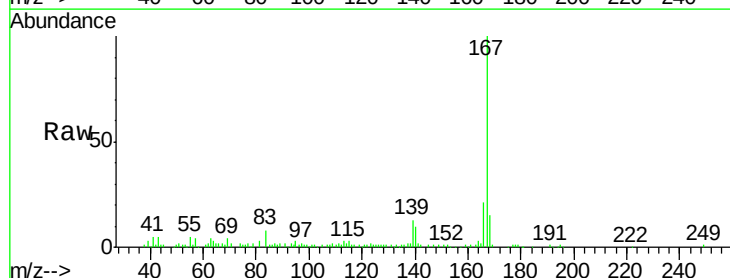
Tgt Ion:167 Resp: 73296

Ion Ratio Lower Upper

167 100

166 21.4 18.1 27.1

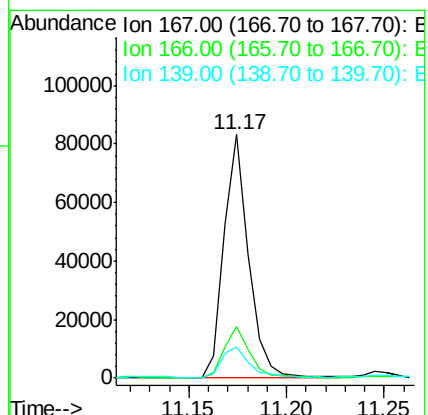
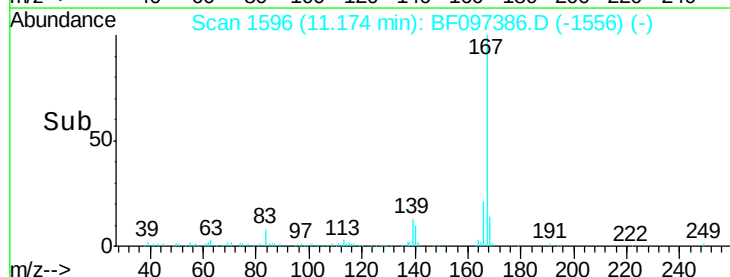
139 13.0 11.7 17.5

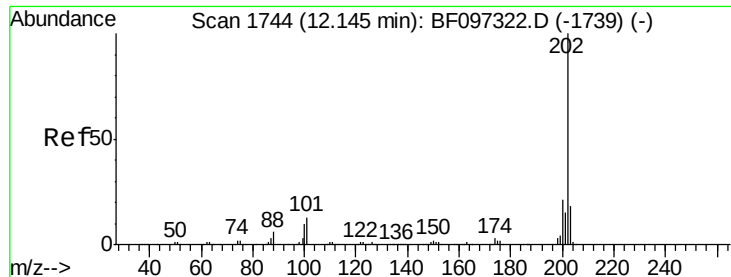


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 48.03 ng

RT: 12.14 min Scan# 1760

Delta R.T. -0.07 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

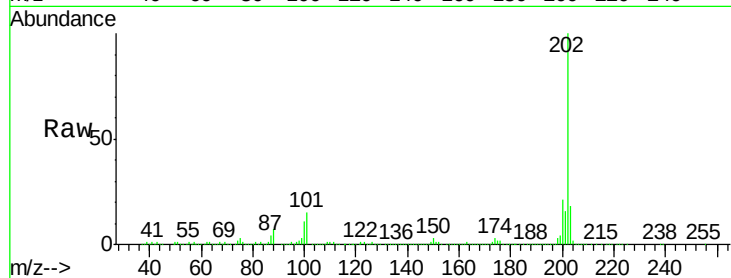
Instrument :

BNA\_F

ClientSampleId :

TP-3D68DL

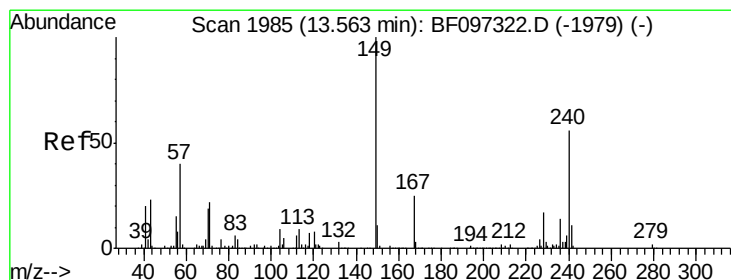
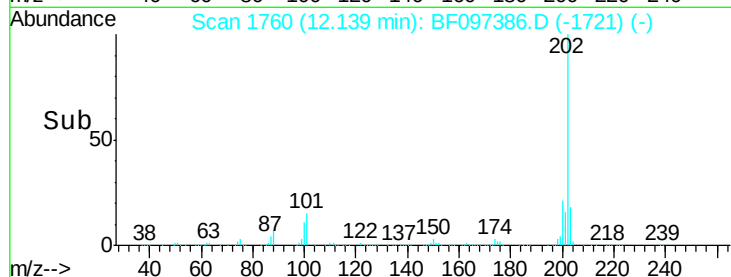
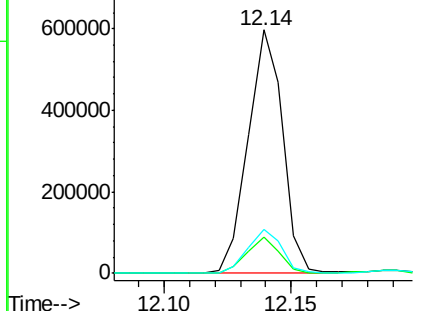
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 565117 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 14.7  | 0.0   | 33.2   |
| 203      | 17.8  | 0.0   | 38.1   |



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: 20.00 ng

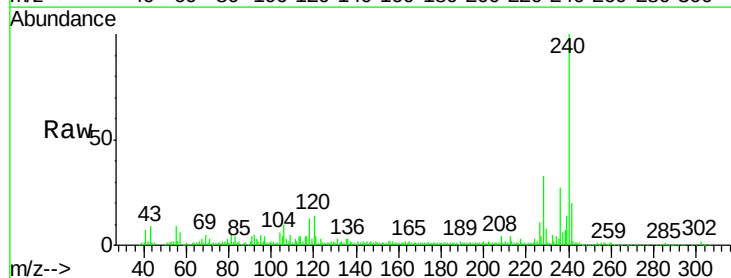
RT: 13.56 min Scan# 2002

Delta R.T. -0.06 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

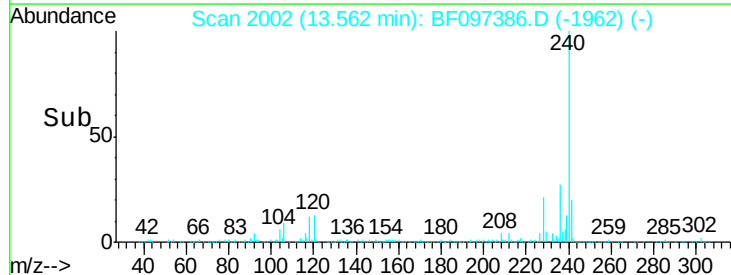
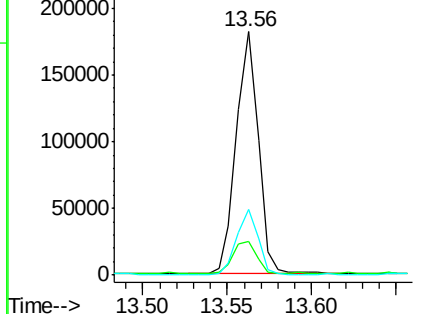
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 164841 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 13.8  | 5.8   | 8.8#   |
| 236      | 26.9  | 20.5  | 30.7   |



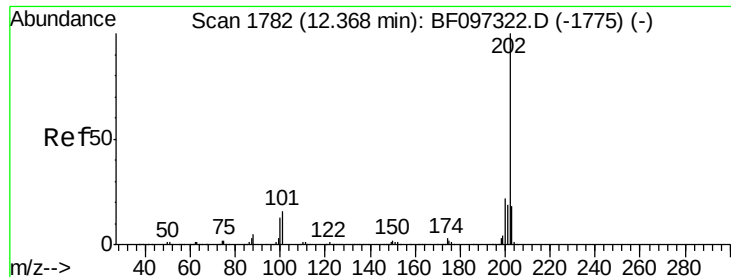
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E







#77

Pvrene

Concen: 34.83 ng

RT: 12.37 min Scan# 1799

Delta R.T. -0.06 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Instrument :

BNA\_F

ClientSampleId :

TP-3D68DL

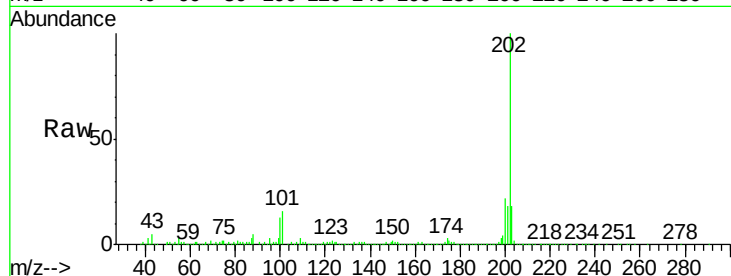
Tot Ion:202 Resp: 470051

Ion Ratio Lower Upper

202 100

200 21.9 17.6 26.4

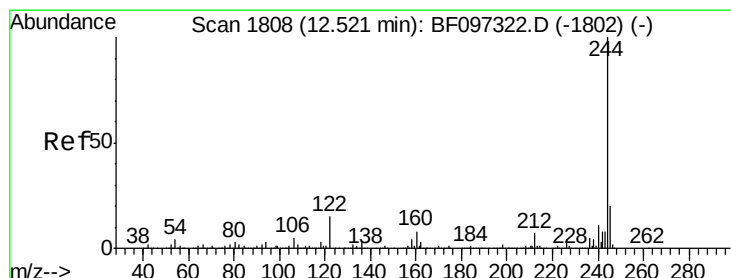
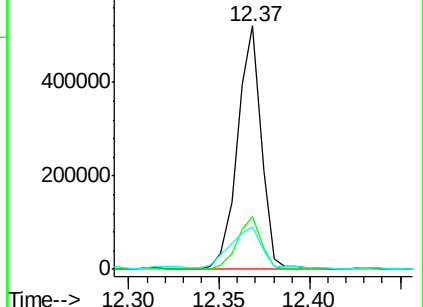
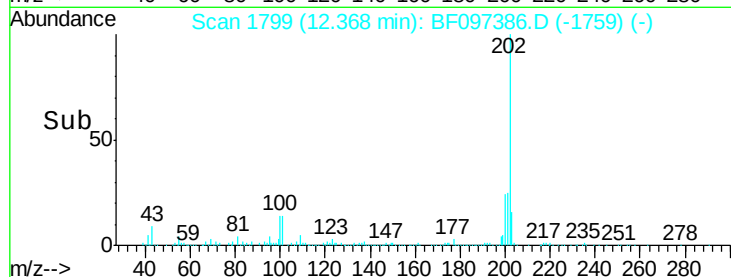
203 17.5 14.4 21.6



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: 19.81 ng

RT: 12.52 min Scan# 1824

Delta R.T. -0.07 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

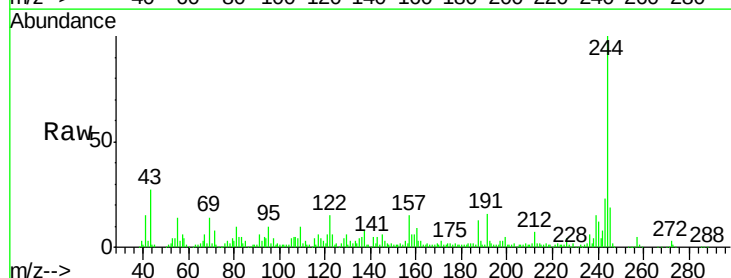
Tgt Ion:244 Resp: 160164

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

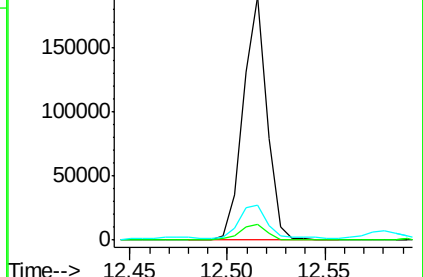
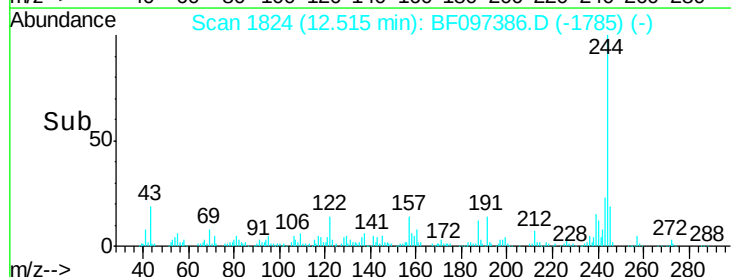
122 14.5 10.3 15.5

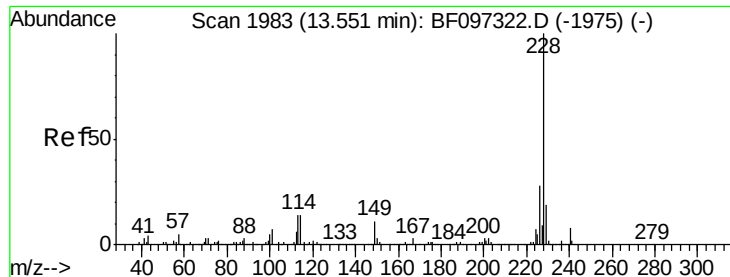


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

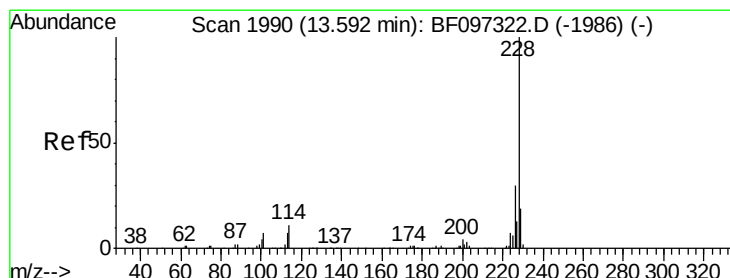
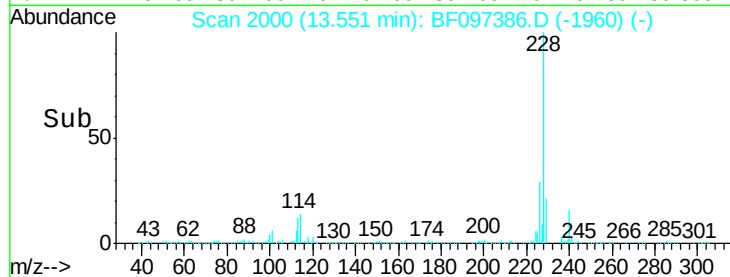
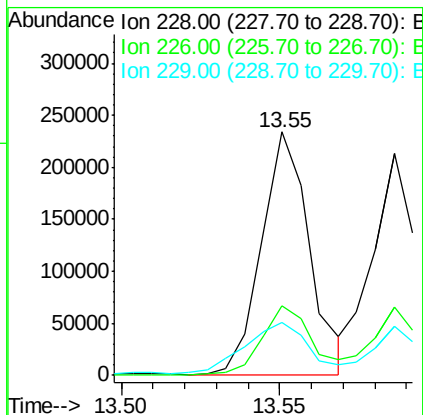
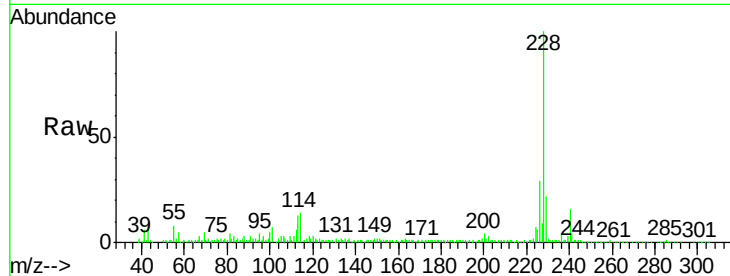




#80  
Benzo(a)anthracene  
Concen: 22.99 ng  
RT: 13.55 min Scan# 2000  
Delta R.T. -0.06 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

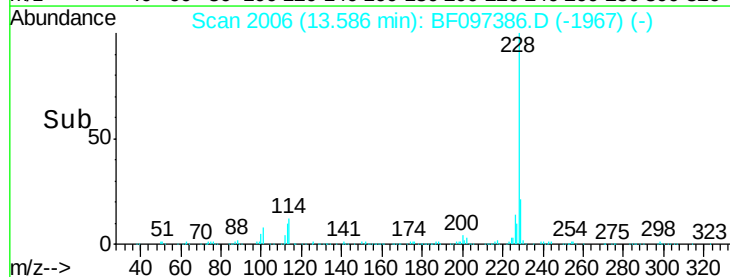
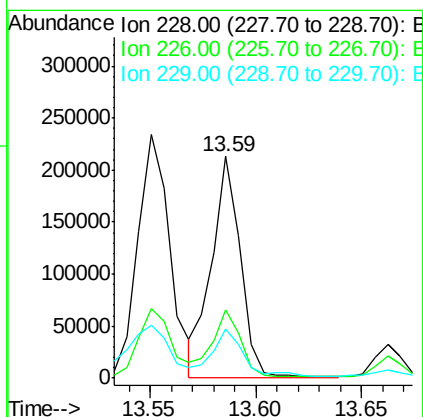
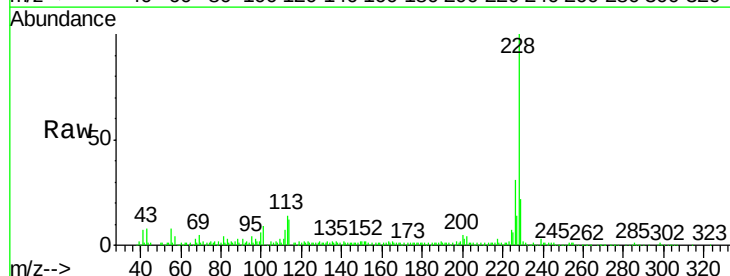
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3D68DL

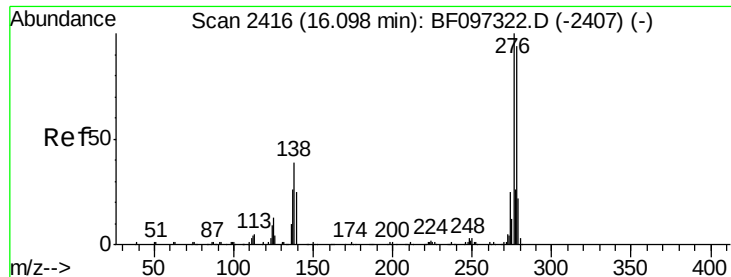
Tot Ion:228 Resp: 245259  
Ion Ratio Lower Upper  
228 100  
226 28.8 22.6 33.8  
229 22.0 16.3 24.5



#82  
Chrysene  
Concen: 19.36 ng  
RT: 13.59 min Scan# 2006  
Delta R.T. -0.07 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

Tgt Ion:228 Resp: 201658  
Ion Ratio Lower Upper  
228 100  
226 30.8 24.9 37.3  
229 22.1 15.8 23.6

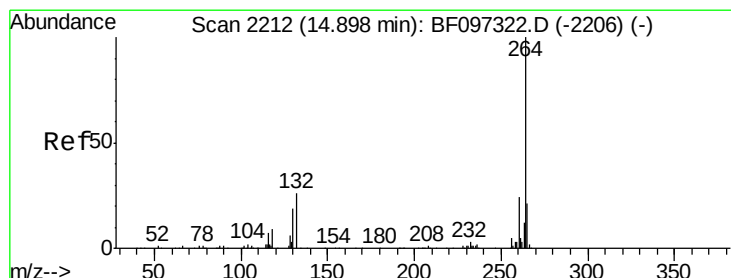
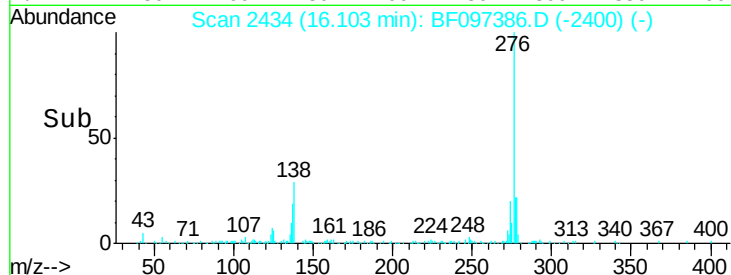
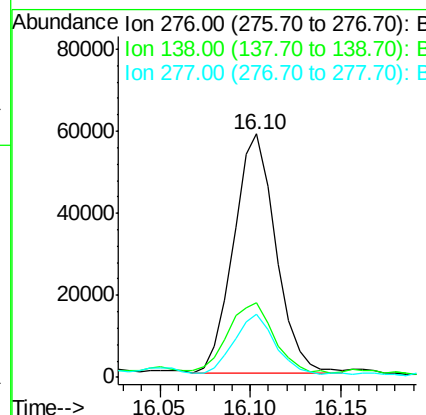
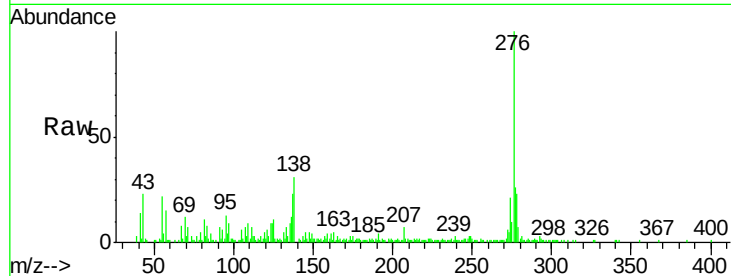




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 10.61 ng  
 RT: 16.10 min Scan# 2434  
 Delta R.T. -0.10 min  
 Lab File: BF097386.D  
 Acq: 5 Aug 2017 5:57

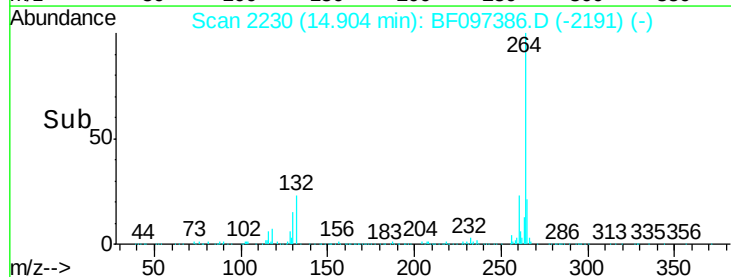
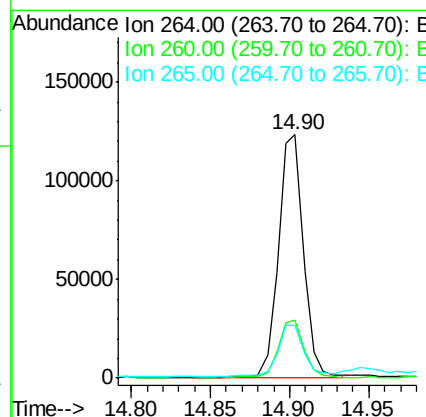
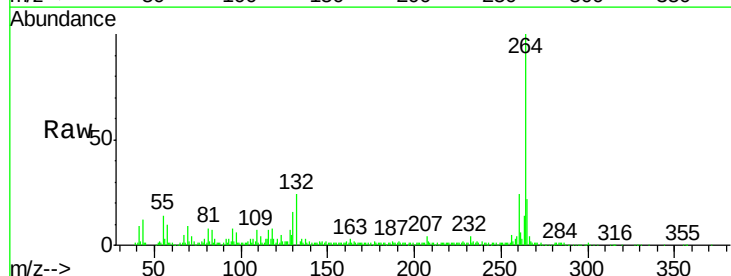
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3D68DL

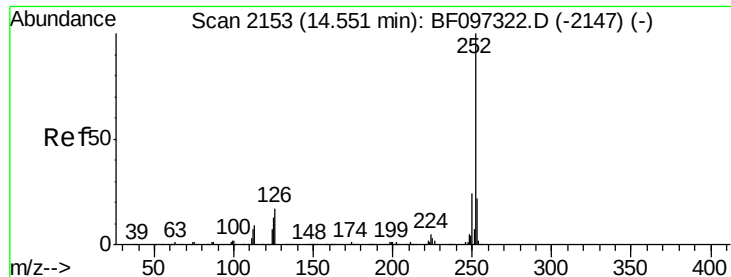
Tot Ion:276 Resp: 94744  
 Ion Ratio Lower Upper  
 276 100  
 138 32.9 27.8 41.6  
 277 24.1 20.2 30.4



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 14.90 min Scan# 2230  
 Delta R.T. -0.07 min  
 Lab File: BF097386.D  
 Acq: 5 Aug 2017 5:57

Tgt Ion:264 Resp: 136172  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 19.5 29.3  
 265 21.7 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 38.46 ng

RT: 14.55 min Scan# 2170

Delta R.T. -0.06 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

Instrument :

BNA\_F

ClientSampleId :

TP-3D68DL

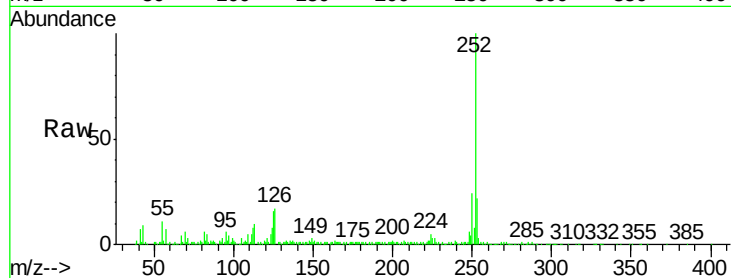
Tot Ion:252 Resp: 314779

Ion Ratio Lower Upper

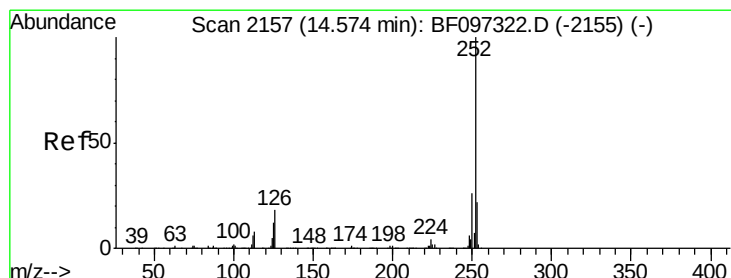
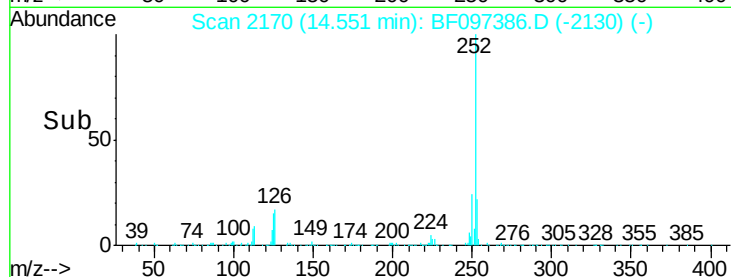
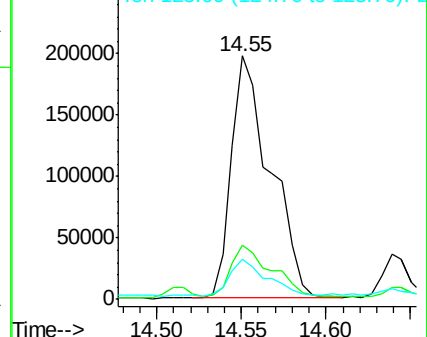
252 100

253 22.3 18.1 27.1

125 16.3 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: 40.36 ng

RT: 14.55 min Scan# 2170

Delta R.T. -0.09 min

Lab File: BF097386.D

Acq: 5 Aug 2017 5:57

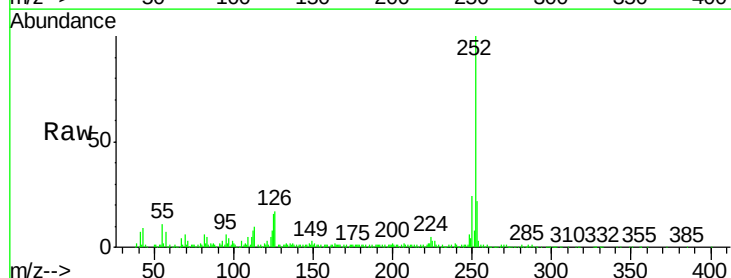
Tgt Ion:252 Resp: 314779

Ion Ratio Lower Upper

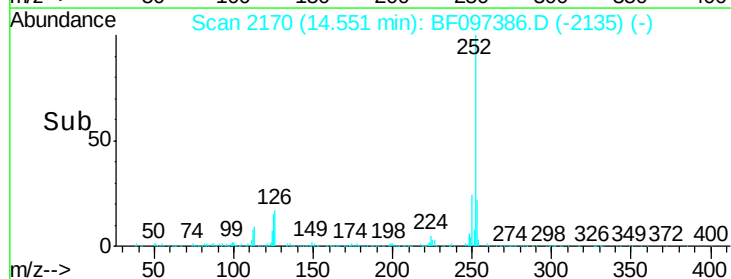
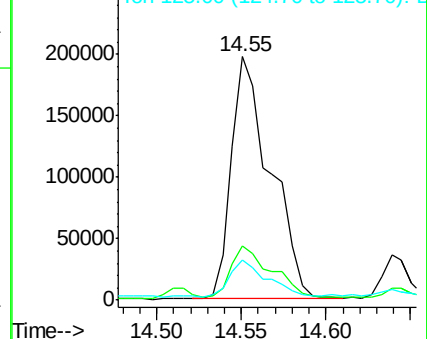
252 100

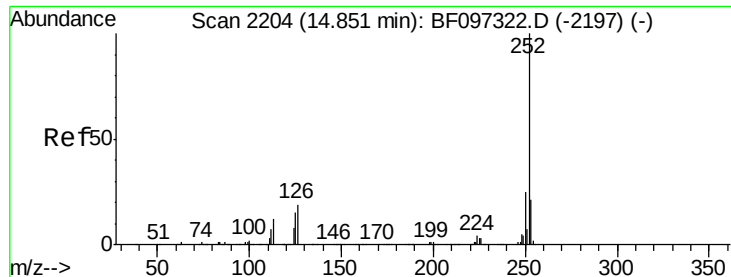
253 22.3 18.4 27.6

125 16.3 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

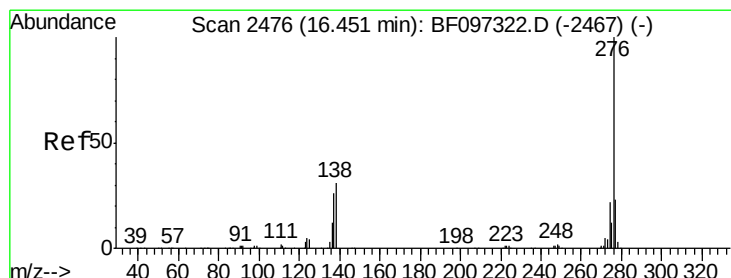
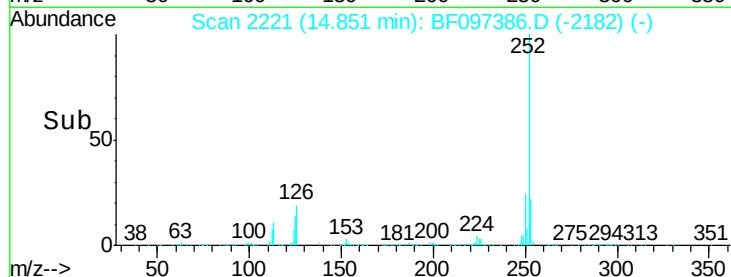
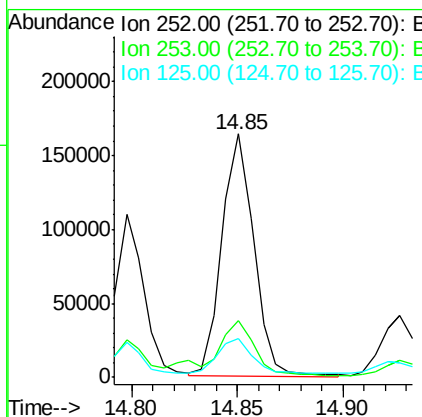
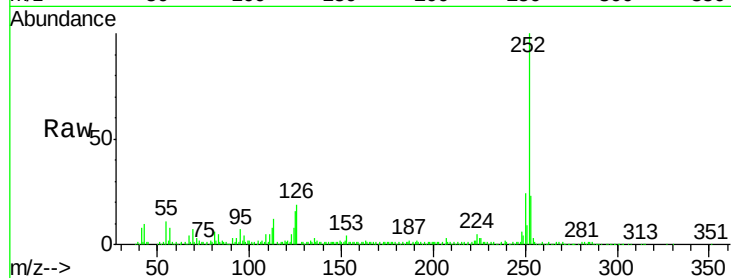




#89  
Benzo(a)pyrene  
Concen: 23.02 ng  
RT: 14.85 min Scan# 2221  
Delta R.T. -0.07 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3D68DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.5  | 26.3  |
| 125     | 15.8  | 11.0  | 16.4  |



#91  
Benzo(g,h,i)perylene  
Concen: 13.47 ng  
RT: 16.46 min Scan# 2494  
Delta R.T. -0.11 min  
Lab File: BF097386.D  
Acq: 5 Aug 2017 5:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.8  | 18.6  | 28.0  |
| 138     | 35.9  | 25.4  | 38.0  |

