

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080817\  
 Data File : BF097486.D  
 Acq On : 8 Aug 2017 23:32  
 Operator : SJ/JU  
 Sample : I4655-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 09 01:03:26 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 07 16:02:51 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.40  | 152  | 101431   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.69  | 136  | 460806   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.43  | 164  | 184841   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 10.90 | 188  | 276685   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.53 | 240  | 192532   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 14.87 | 264  | 178597   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.00  | 112  | 510780   | 75.91 | ng    | 0.00     |
| 7) Phenol-d6                | 6.07  | 99   | 612822   | 79.78 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 6.97  | 82   | 342294   | 43.58 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.22 | 330  | 97567    | 66.81 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.76  | 172  | 553261   | 50.80 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.49 | 244  | 339086   | 35.91 | ng    | -0.01    |

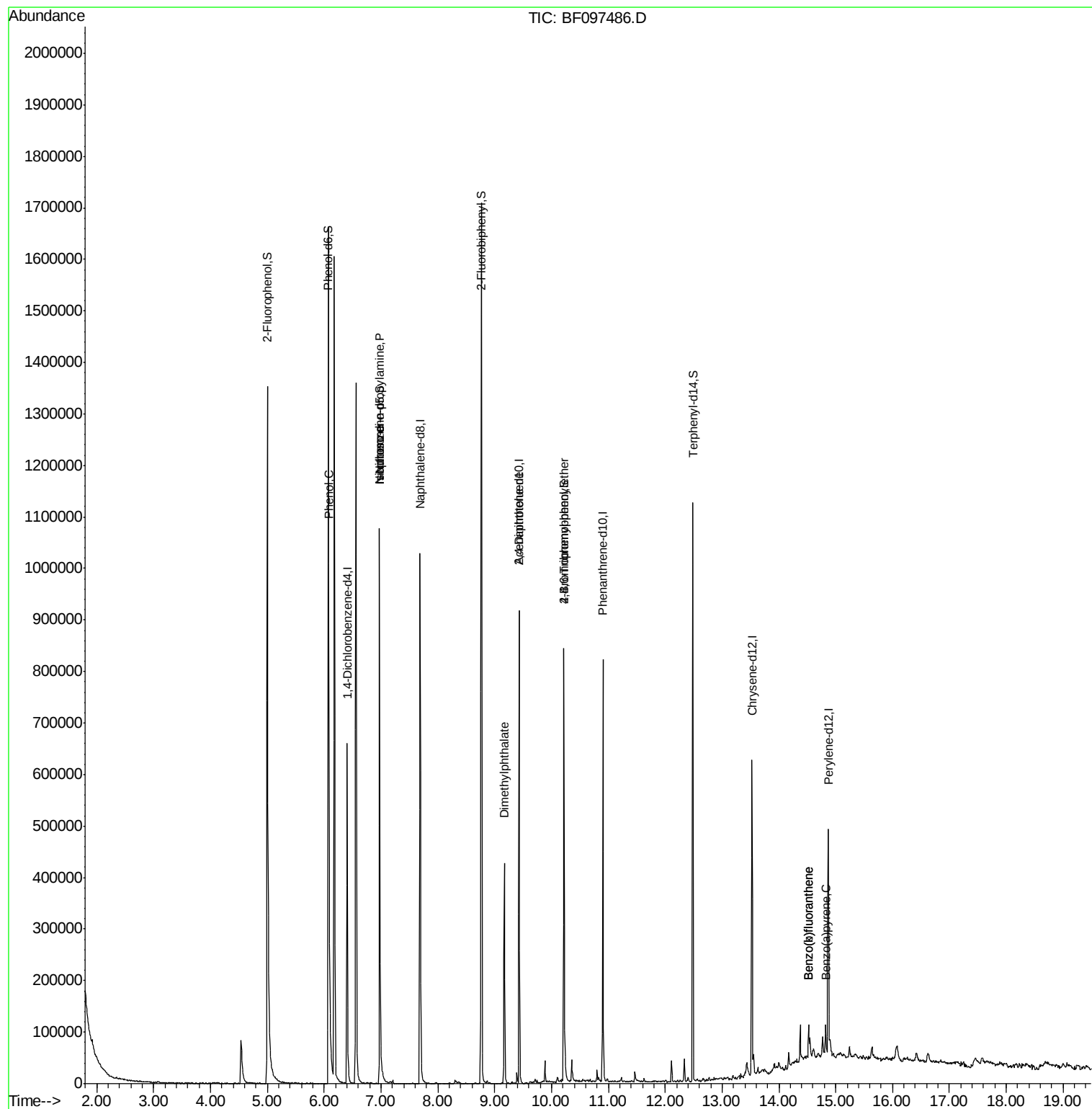
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 10) Phenol                     | 6.09  | 94   | 21148    | 2.32  | ng    | # 49   |
| 19) n-Nitroso-di-n-propylamine | 6.97  | 70   | 45470    | 8.99  | ng    | # 86   |
| 25) Isophorone                 | 6.97  | 82   | 342292   | 22.25 | ng    | # 67   |
| 49) Dimethylphthalate          | 9.17  | 163  | 159998   | 11.40 | ng    | # 99   |
| 56) 2,4-Dinitrotoluene         | 9.43  | 165  | 22847    | 6.68  | ng    | # 32   |
| 66) 4-Bromophenyl-phenylether  | 10.22 | 248  | 6447     | 2.33  | ng    | # 1    |
| 87) Benzo(b)fluoranthene       | 14.53 | 252  | 37541    | 3.50  | ng    | # 96   |
| 88) Benzo(k)fluoranthene       | 14.53 | 252  | 37541    | 3.67  | ng    | # 99   |
| 89) Benzo(a)pyrene             | 14.82 | 252  | 22016    | 2.24  | ng    | # 96   |

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

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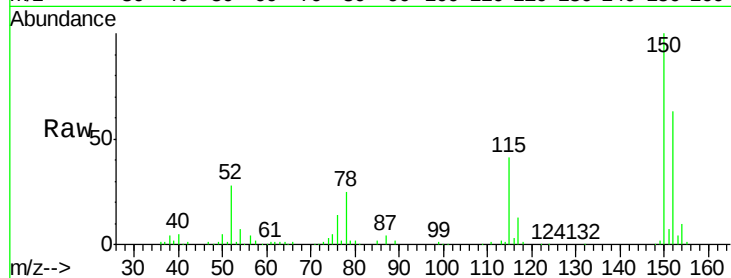


#1

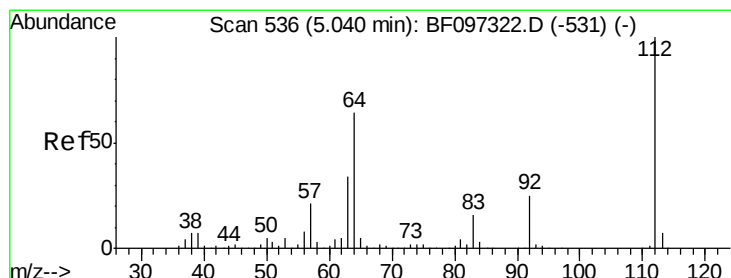
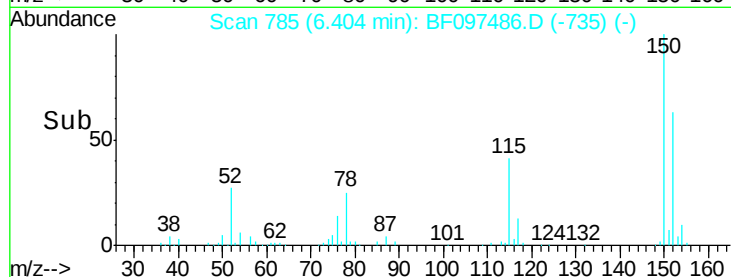
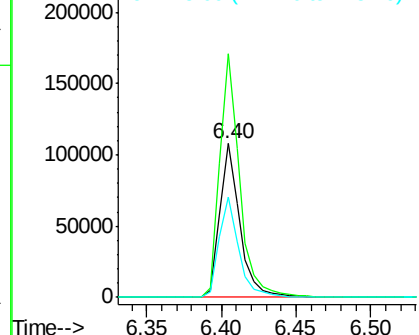
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.40 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: BF097486.D  
Acq: 8 Aug 2017 23:32

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 101431  
Ion Ratio Lower Upper  
152 100  
150 158.4 126.2 189.2  
115 64.9 52.2 78.2



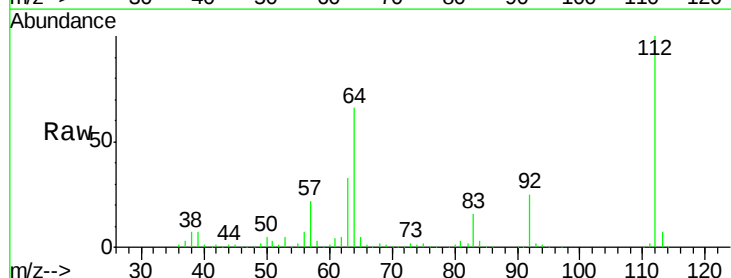
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



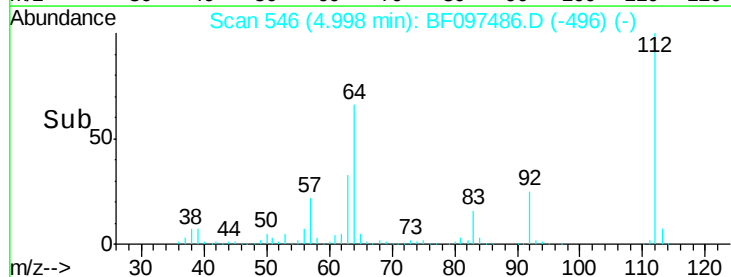
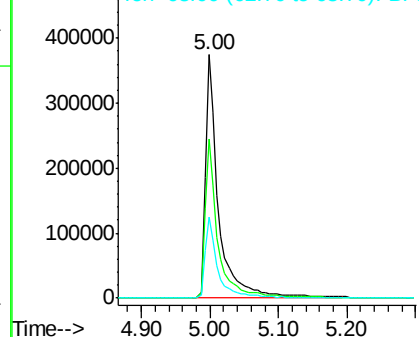
#5

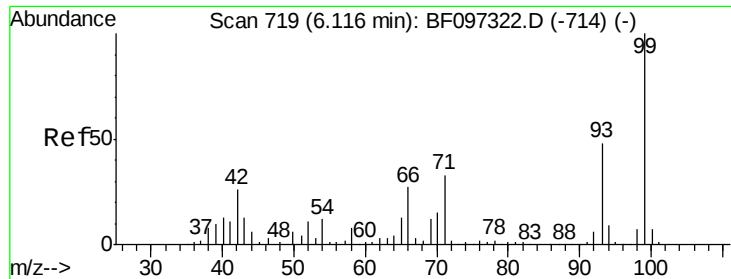
2-Fluorophenol  
Concen: 75.91 ng  
RT: 5.00 min Scan# 546  
Delta R.T. -0.01 min  
Lab File: BF097486.D  
Acq: 8 Aug 2017 23:32

Tgt Ion:112 Resp: 510780  
Ion Ratio Lower Upper  
112 100  
64 65.6 46.0 69.0  
63 33.1 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: 79.78 ng

RT: 6.07 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF097486.D

Acq: 8 Aug 2017 23:32

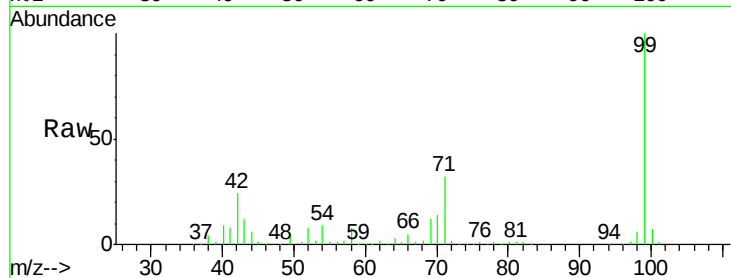
Instrument :

BNA\_F

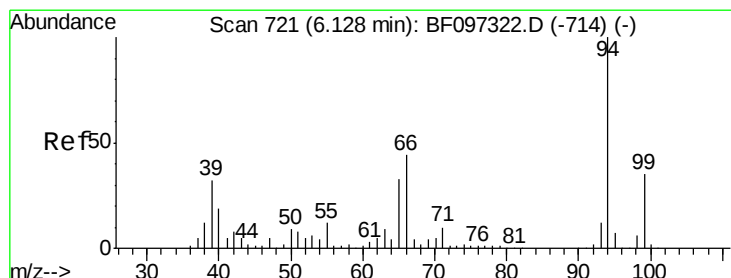
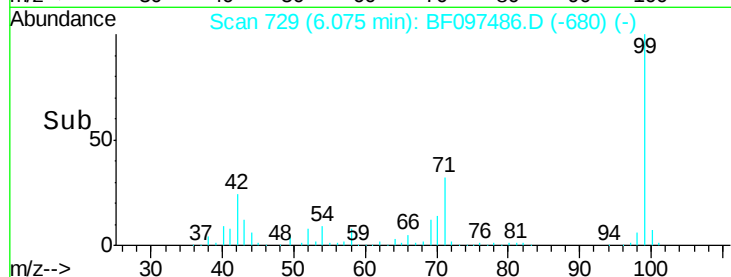
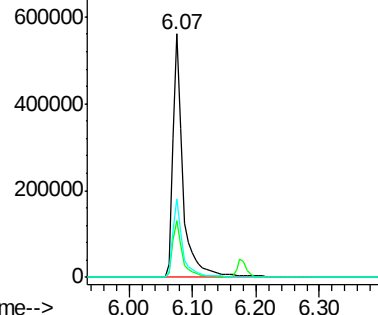
ClientSampleId :

Tot Ion: 99 Resp: 612822

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 23.6  | 13.5  | 20.3# |
| 71  | 32.5  | 24.5  | 36.7  |



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.32 ng

RT: 6.09 min Scan# 731

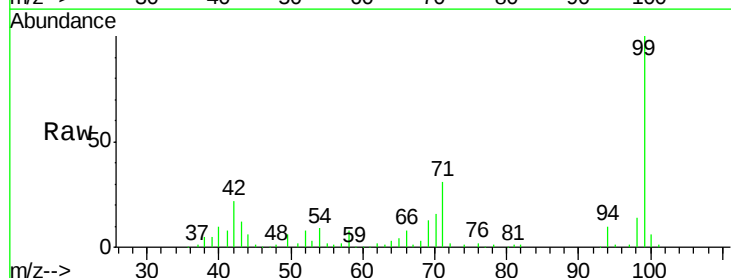
Delta R.T. -0.01 min

Lab File: BF097486.D

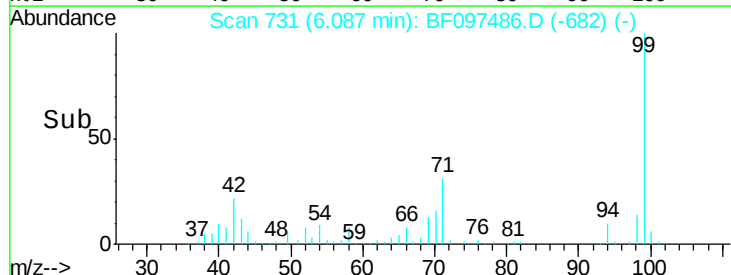
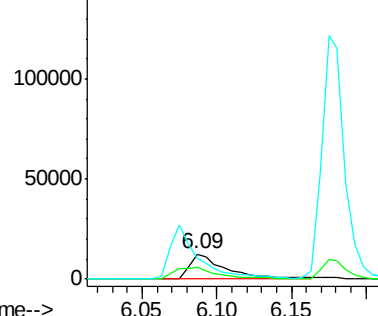
Acq: 8 Aug 2017 23:32

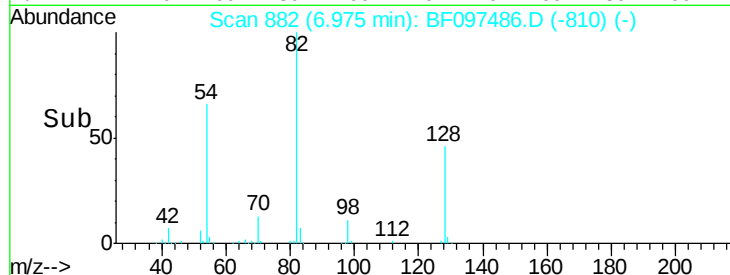
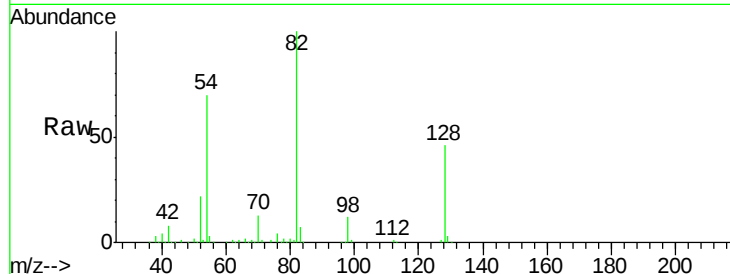
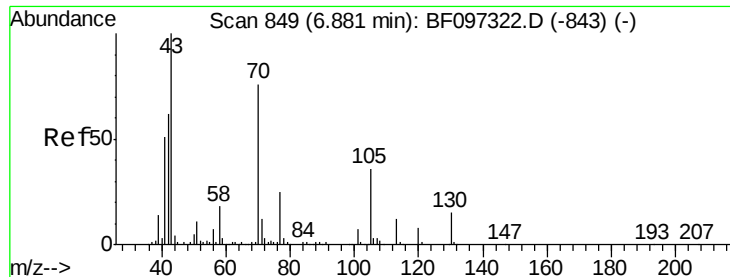
Tgt Ion: 94 Resp: 21148

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 45.5  | 9.9   | 49.9  |
| 66  | 85.8  | 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

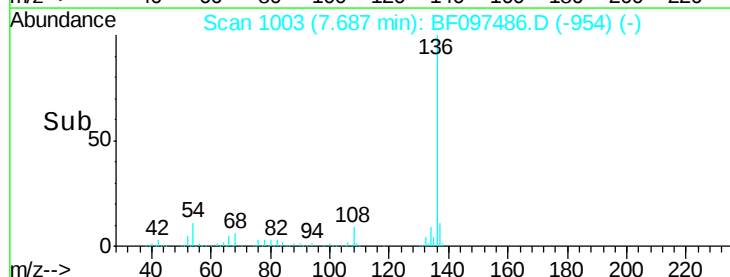
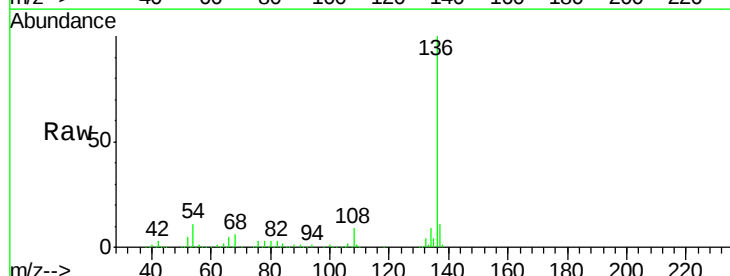
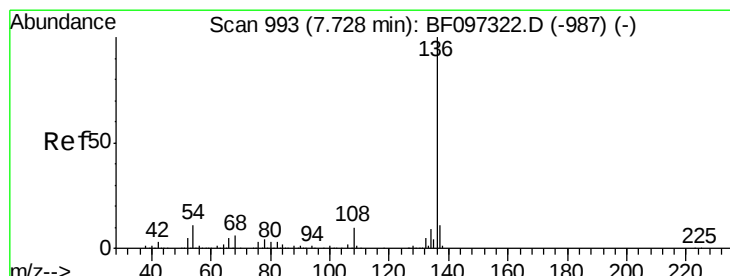
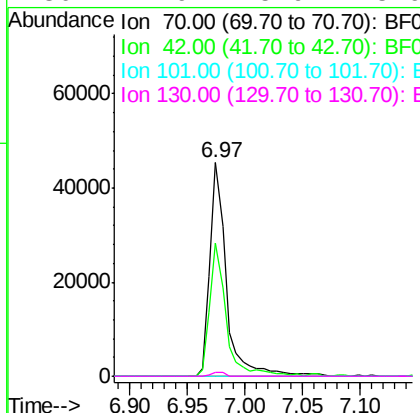




#19  
n-Nitroso-di-n-propylamine  
Concen: 8.99 ng  
RT: 6.97 min Scan# 882  
Delta R.T. 0.12 min  
Lab File: BF097486.D  
Acq: 8 Aug 2017 23:32

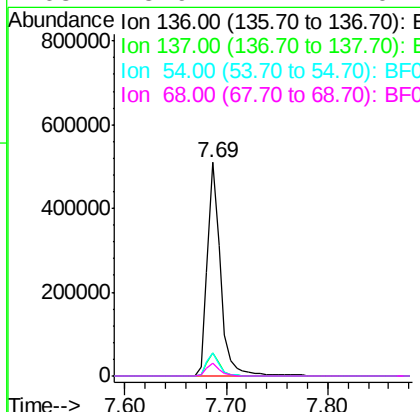
Instrument :  
BNA\_F  
ClientSampleId :

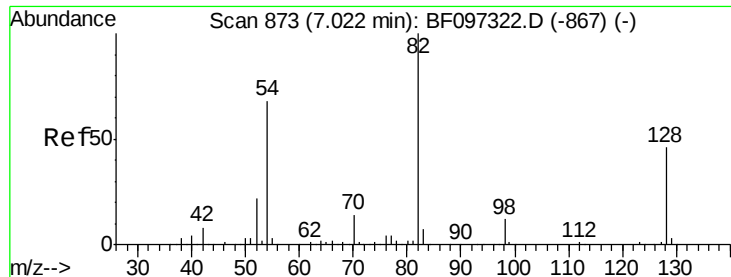
Tot Ion: 70 Resp: 45470  
Ion Ratio Lower Upper  
70 100  
42 62.3 47.2 70.8  
101 0.0 7.2 10.8#  
130 1.9 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.69 min Scan# 1003  
Delta R.T. -0.01 min  
Lab File: BF097486.D  
Acq: 8 Aug 2017 23:32

Tgt Ion: 136 Resp: 460806  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.5 12.7  
54 10.6 4.9 7.3#  
68 5.9 4.1 6.1

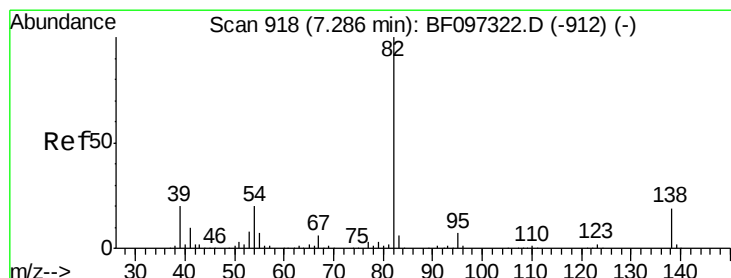
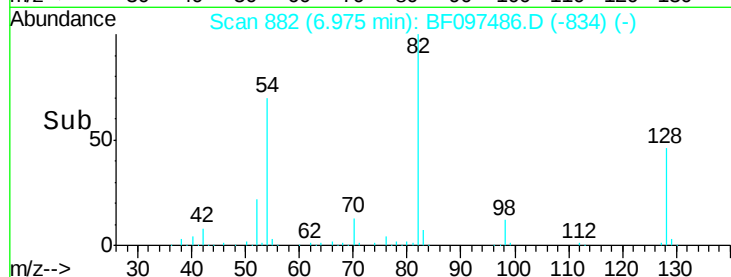
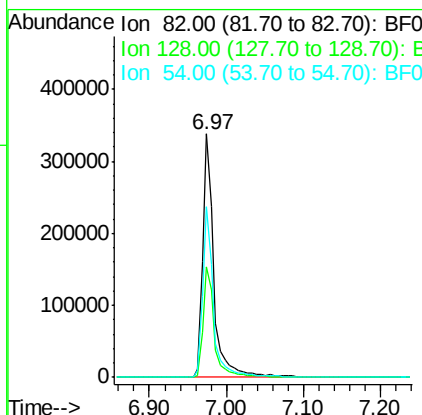
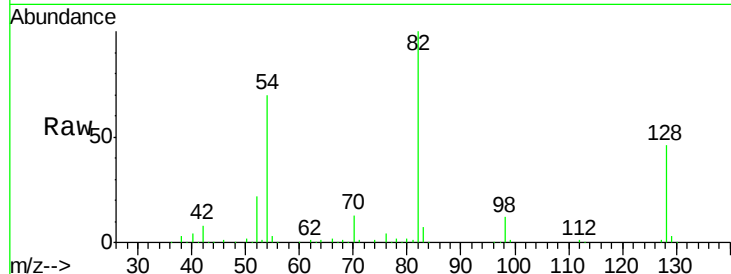




#23  
 Nitrobenzene-d5  
 Concen: 43.58 ng  
 RT: 6.97 min Scan# 882  
 Delta R.T. -0.02 min  
 Lab File: BF097486.D  
 Acq: 8 Aug 2017 23:32

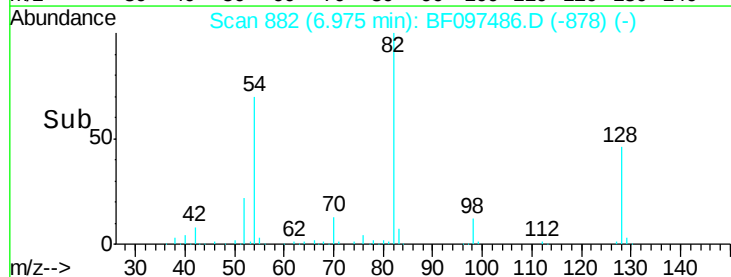
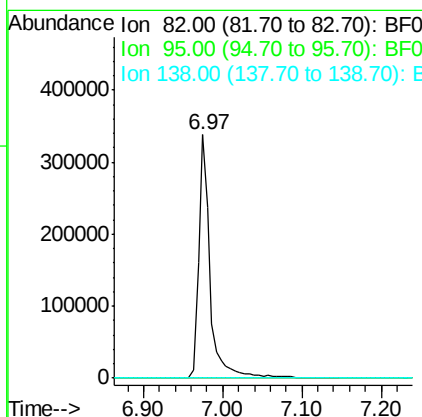
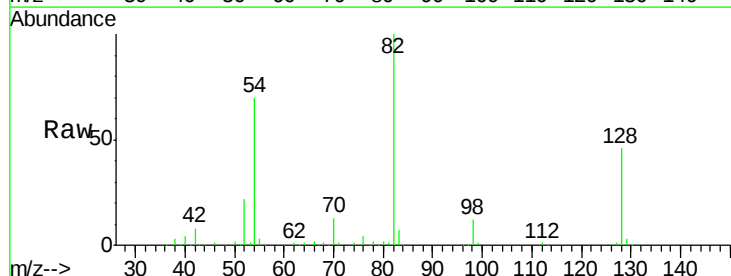
Instrument :  
 BNA\_F  
 ClientSampleId :

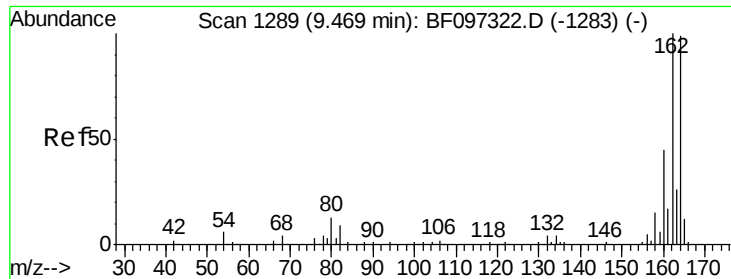
Tot Ion: 82 Resp: 342294  
 Ion Ratio Lower Upper  
 82 100  
 128 45.6 34.0 51.0  
 54 70.2 42.2 63.2#



#25  
 Isophorone  
 Concen: 22.25 ng  
 RT: 6.97 min Scan# 882  
 Delta R.T. -0.28 min  
 Lab File: BF097486.D  
 Acq: 8 Aug 2017 23:32

Tgt Ion: 82 Resp: 342292  
 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: 9.43 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF097486.D

Acq: 8 Aug 2017 23:32

Instrument :

BNA\_F

ClientSampleId :

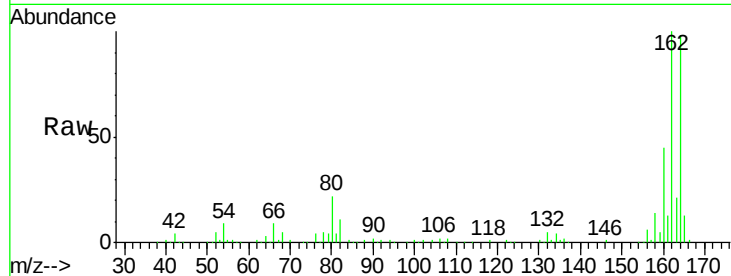
Tot Ion:164 Resp: 184841

Ion Ratio Lower Upper

164 100

162 101.9 82.6 123.8

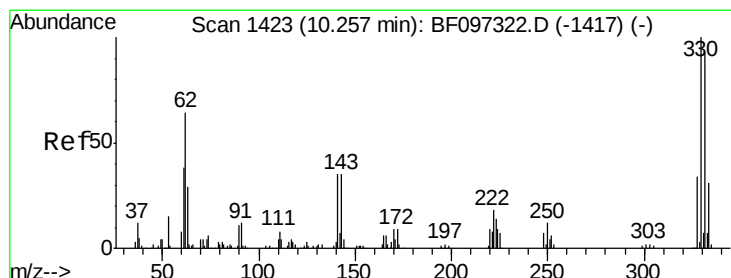
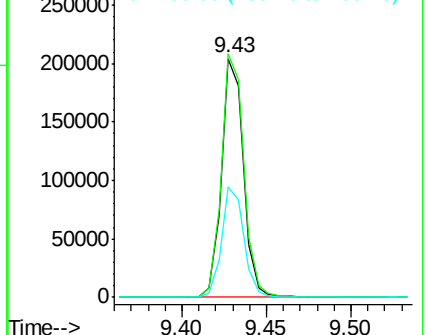
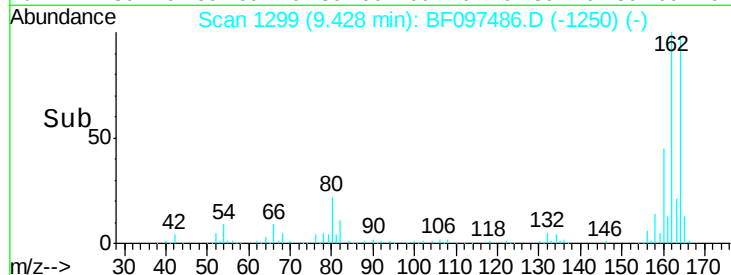
160 46.1 36.2 54.2



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: 66.81 ng

RT: 10.22 min Scan# 1434

Delta R.T. -0.01 min

Lab File: BF097486.D

Acq: 8 Aug 2017 23:32

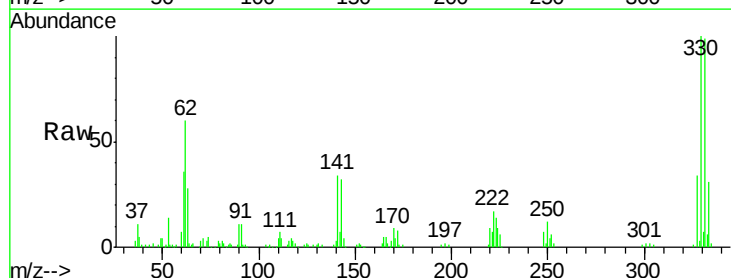
Tgt Ion:330 Resp: 97567

Ion Ratio Lower Upper

330 100

332 99.3 76.6 115.0

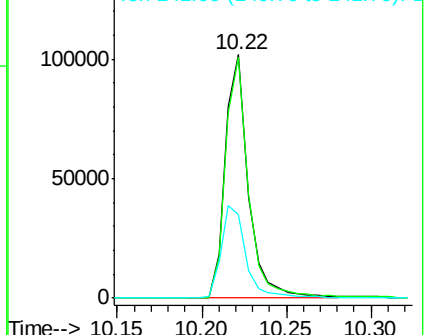
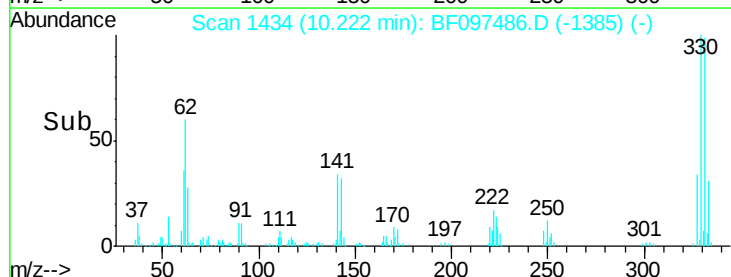
141 40.9 31.4 47.2

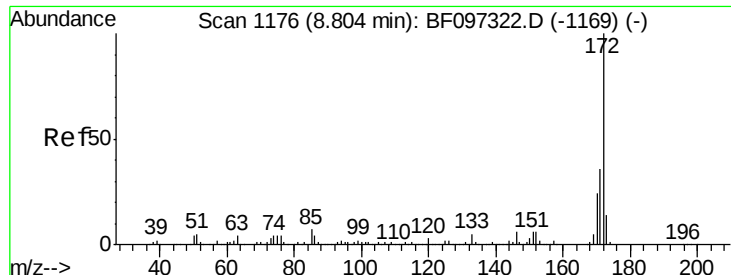


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

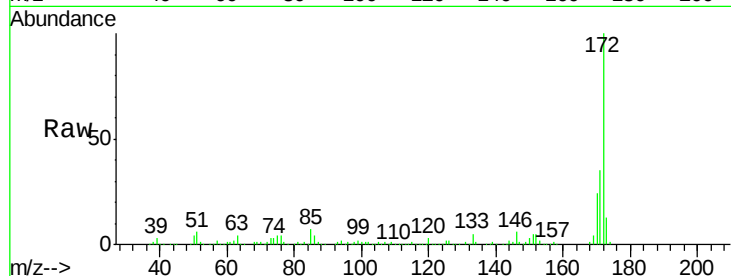




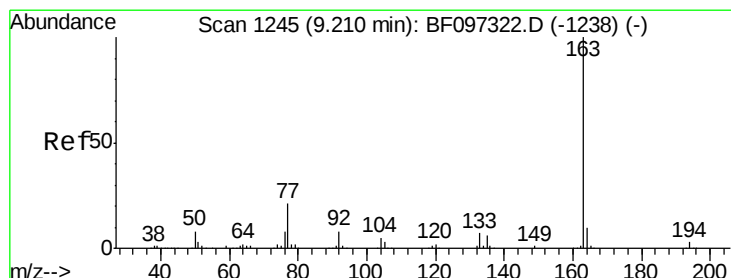
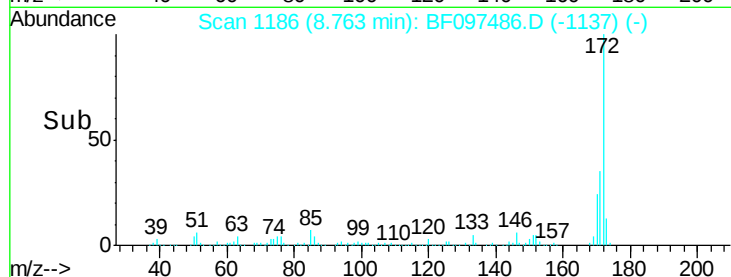
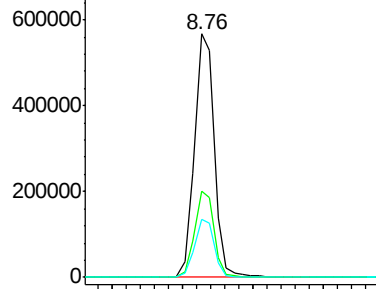
#44  
2-Fluorobiphenyl  
Concen: 50.80 ng  
RT: 8.76 min Scan# 1186  
Delta R.T. -0.01 min  
Lab File: BF097486.D  
Acq: 8 Aug 2017 23:32

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.3  | 29.6  | 44.4  |
| 170     | 23.6  | 19.8  | 29.8  |

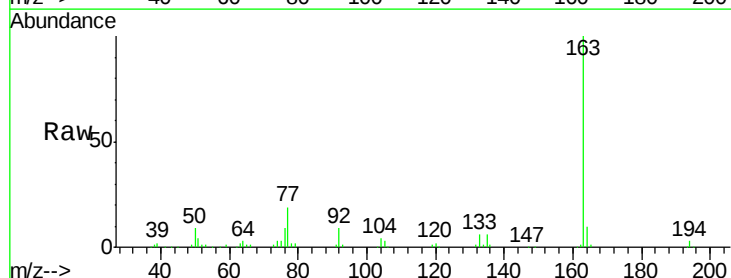


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

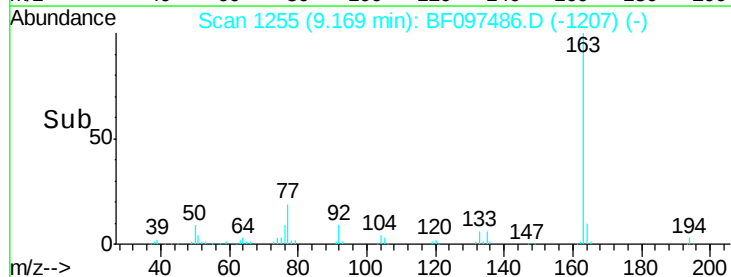
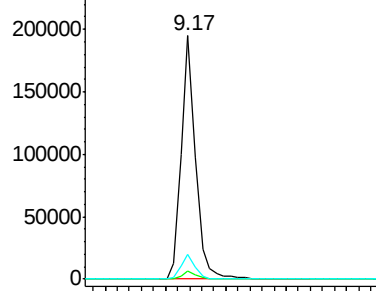


#49  
Dimethylphthalate  
Concen: 11.40 ng  
RT: 9.17 min Scan# 1255  
Delta R.T. -0.02 min  
Lab File: BF097486.D  
Acq: 8 Aug 2017 23:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.1   | 2.6   | 4.0   |
| 164     | 10.2  | 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

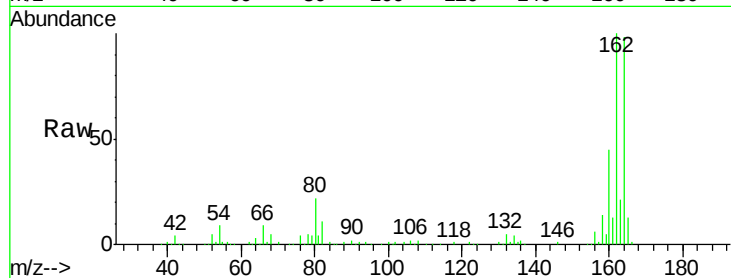




#56  
 2,4-Dinitrotoluene  
 Concen: 6.68 ng  
 RT: 9.43 min Scan# 1299  
 Delta R.T. -0.24 min  
 Lab File: BF097486.D  
 Acq: 8 Aug 2017 23:32

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 25.4  | 38.0# |
| 89      | 0.0   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

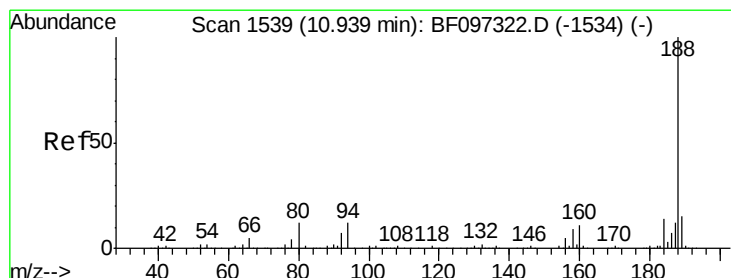
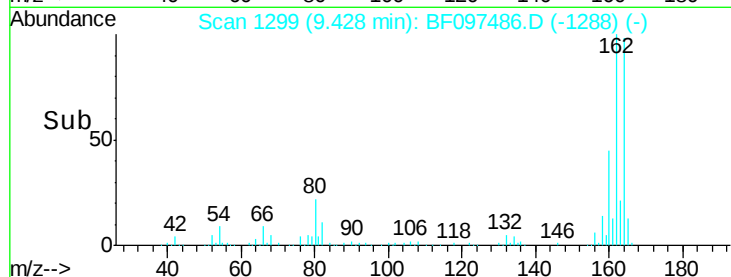
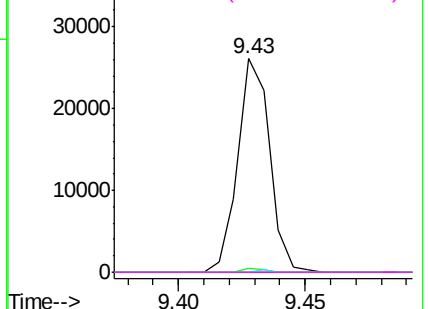


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

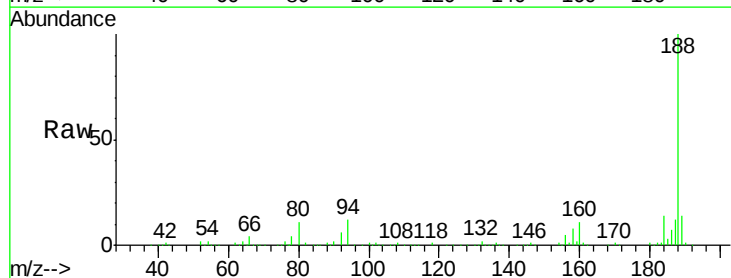
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 10.90 min Scan# 1550  
 Delta R.T. -0.01 min  
 Lab File: BF097486.D  
 Acq: 8 Aug 2017 23:32

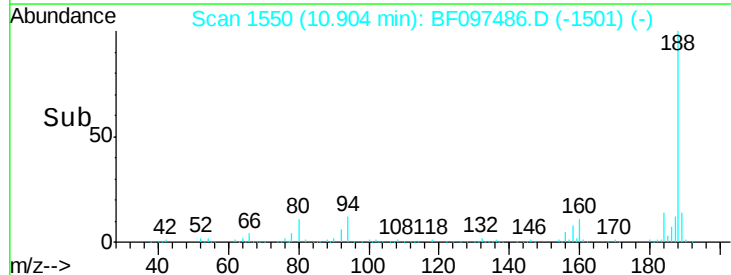
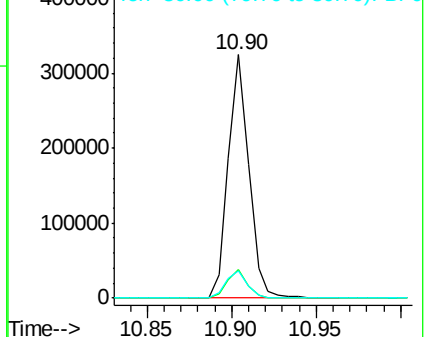
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.6  | 9.4   | 14.2  |
| 80      | 11.1  | 10.2  | 15.2  |



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

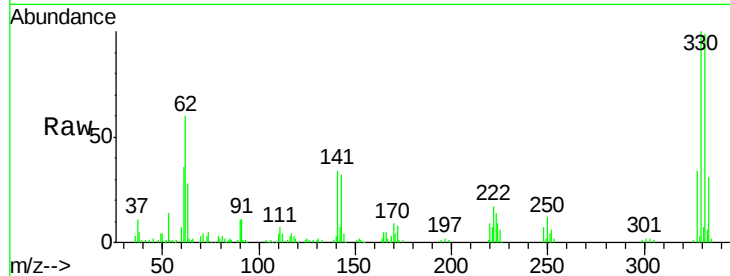




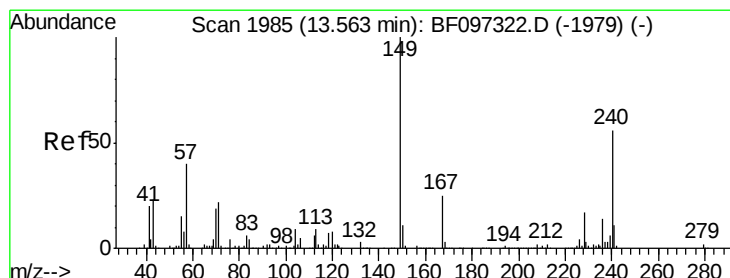
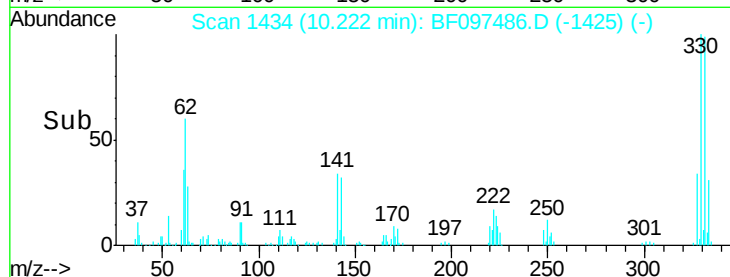
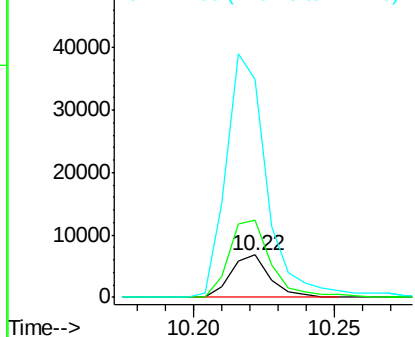
#66  
4-Bromophenyl-phenylether  
Concen: 2.33 ng  
RT: 10.22 min Scan# 1434  
Delta R.T. -0.25 min  
Lab File: BF097486.D  
Acq: 8 Aug 2017 23:32

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 6447  
Ion Ratio Lower Upper  
248 100  
250 183.1 76.8 115.2#  
141 515.3 68.6 103.0#

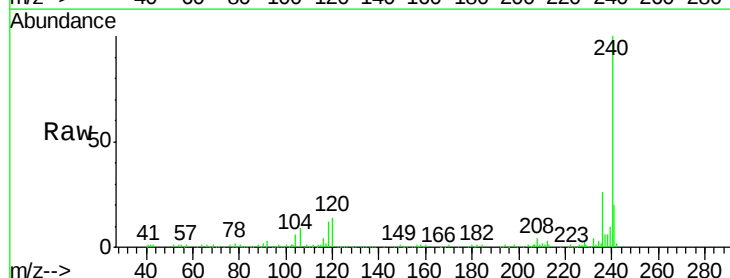


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

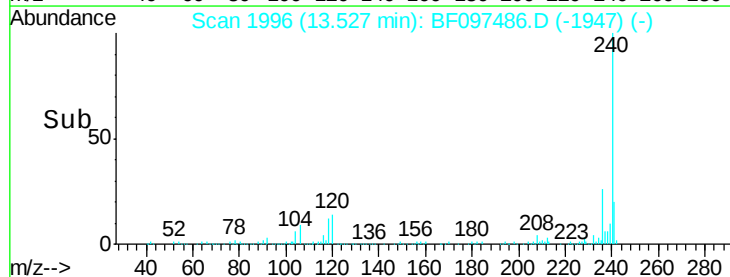
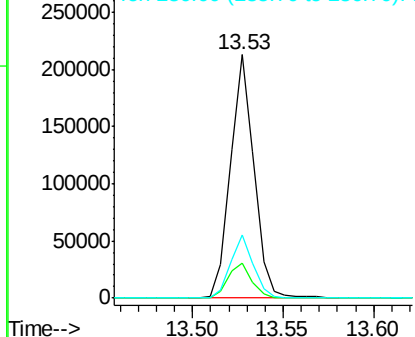


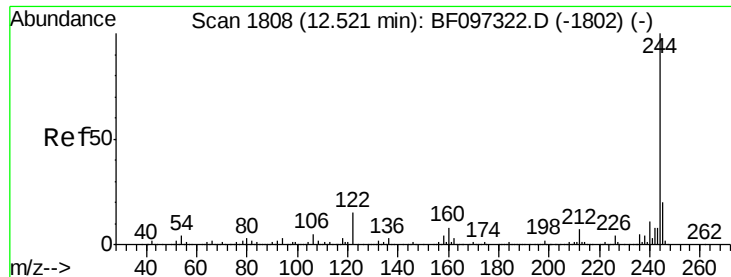
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.53 min Scan# 1996  
Delta R.T. -0.01 min  
Lab File: BF097486.D  
Acq: 8 Aug 2017 23:32

Tgt Ion:240 Resp: 192532  
Ion Ratio Lower Upper  
240 100  
120 14.4 5.8 8.8#  
236 25.8 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

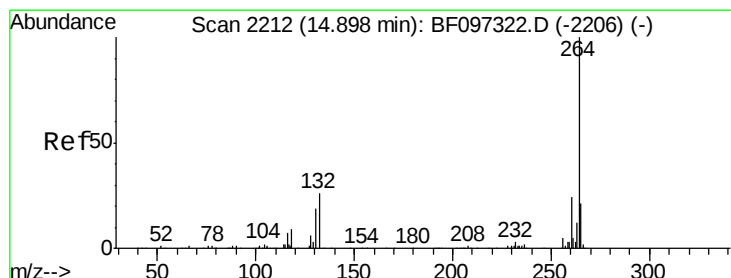
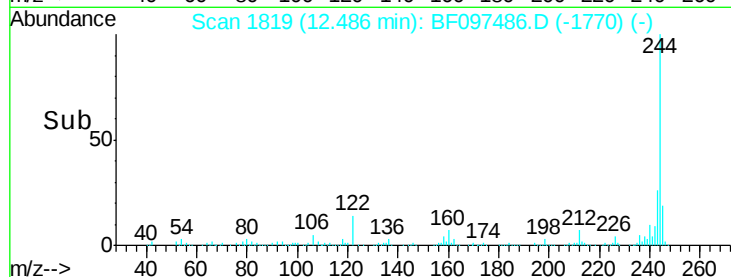
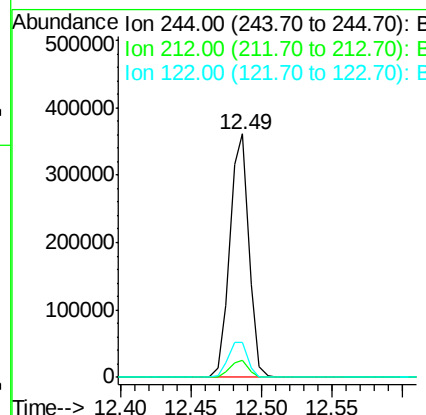
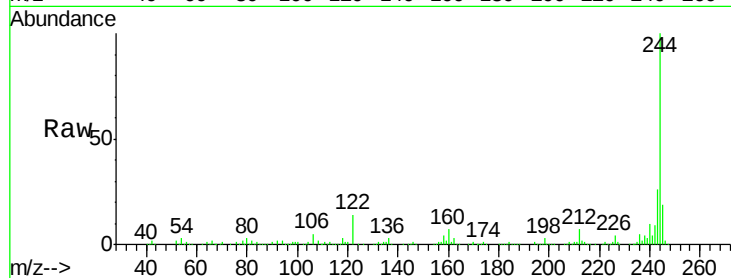




#78  
 Terphenyl-d14  
 Concen: 35.91 ng  
 RT: 12.49 min Scan# 1819  
 Delta R.T. -0.01 min  
 Lab File: BF097486.D  
 Acq: 8 Aug 2017 23:32

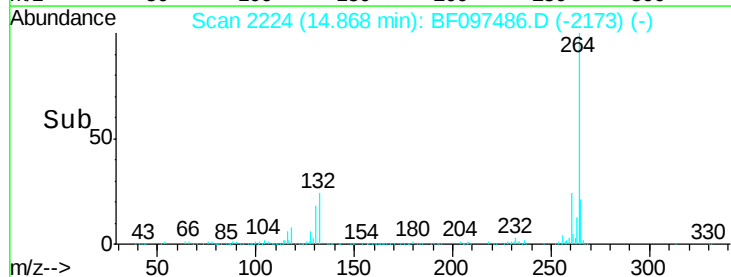
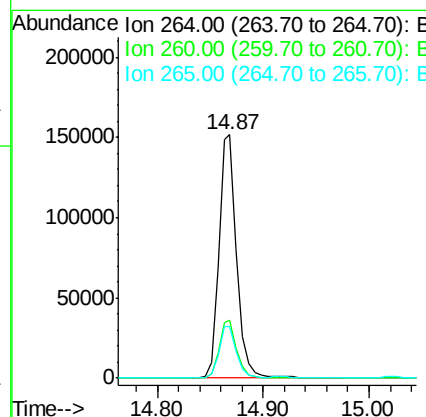
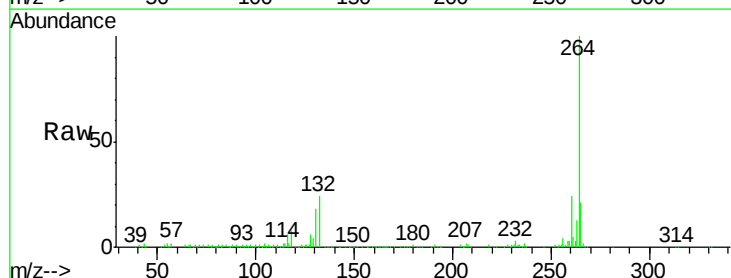
Instrument :  
 BNA\_F  
 ClientSampled :

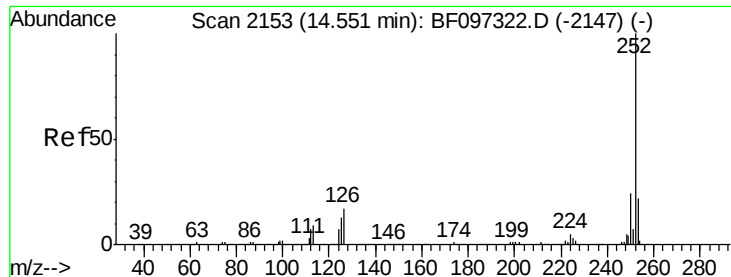
Tot Ion:244 Resp: 339086  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 6.0 9.0  
 122 14.1 10.3 15.5



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 14.87 min Scan# 2224  
 Delta R.T. 0.00 min  
 Lab File: BF097486.D  
 Acq: 8 Aug 2017 23:32

Tgt Ion:264 Resp: 178597  
 Ion Ratio Lower Upper  
 264 100  
 260 24.1 19.5 29.3  
 265 21.0 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 3.50 ng

RT: 14.53 min Scan# 2166

Delta R.T. 0.00 min

Lab File: BF097486.D

Acq: 8 Aug 2017 23:32

Instrument :

BNA\_F

ClientSampleId :

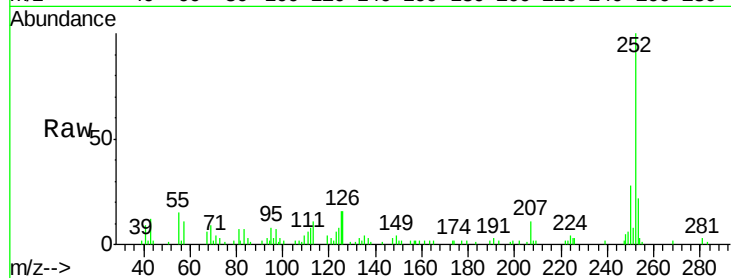
Tot Ion:252 Resp: 37541

Ion Ratio Lower Upper

252 100

253 22.4 18.1 27.1

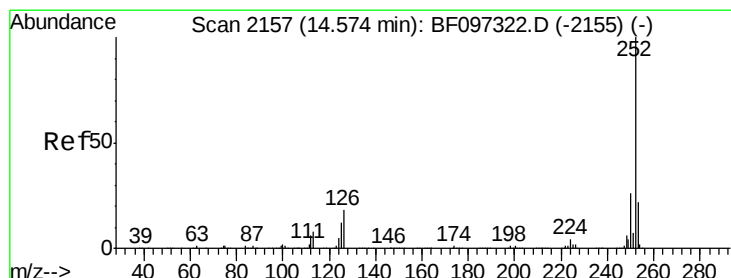
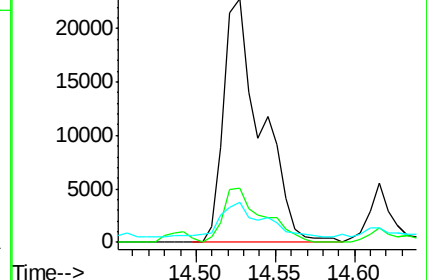
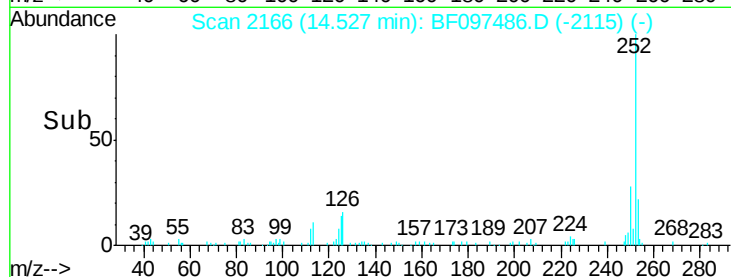
125 16.2 9.8 14.8#



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: 3.67 ng

RT: 14.53 min Scan# 2166

Delta R.T. -0.02 min

Lab File: BF097486.D

Acq: 8 Aug 2017 23:32

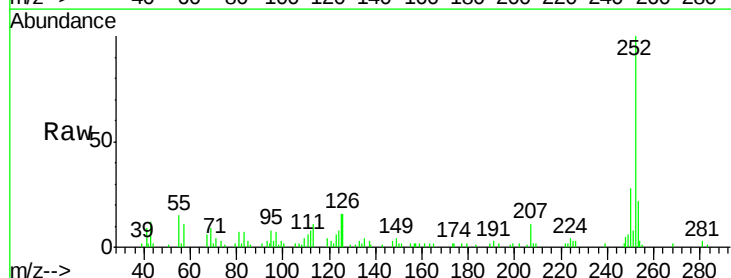
Tgt Ion:252 Resp: 37541

Ion Ratio Lower Upper

252 100

253 22.4 18.4 27.6

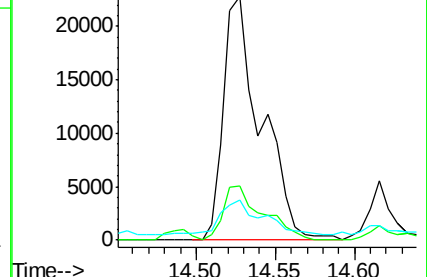
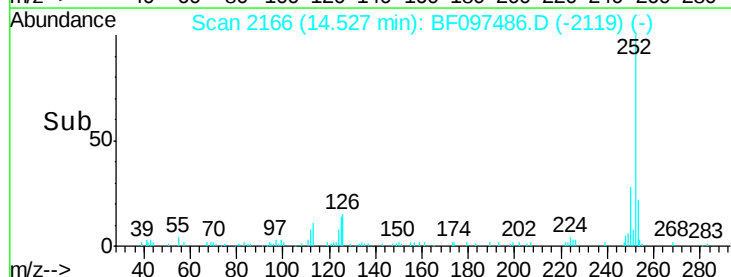
125 16.2 13.1 19.7

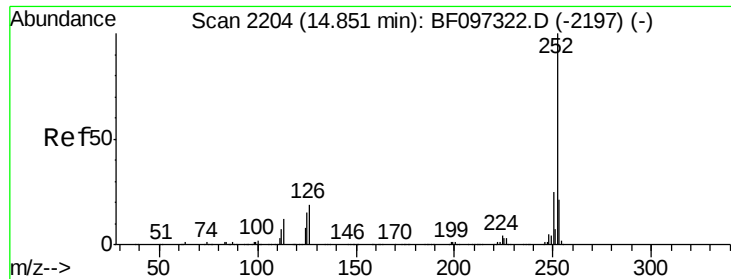


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 2.24 ng

RT: 14.82 min Scan# 2216

Delta R.T. 0.00 min

Lab File: BF097486.D

Acq: 8 Aug 2017 23:32

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 252 Resp: 22016

Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

125 16.3 11.0 16.4

