

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\  
 Data File : BF097044.D  
 Acq On : 25 Jul 2017 22:16  
 Operator : SJ/JU  
 Sample : I4290-03  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 26 01:06:44 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

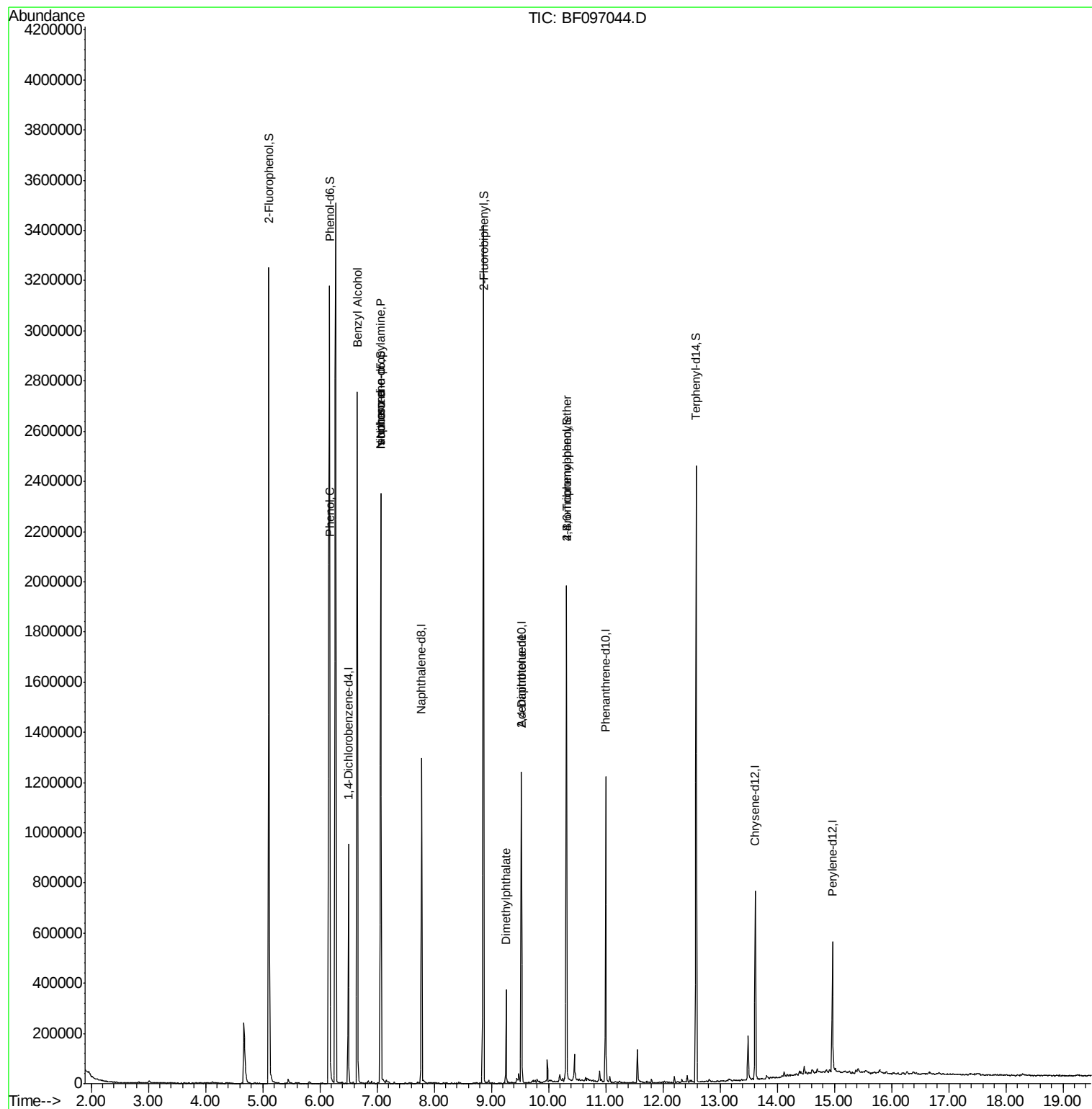
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.50  | 152  | 138293   | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8             | 7.78  | 136  | 591685   | 20.00  | ng    | 0.00      |
| 38) Acenaphthene-d10           | 9.53  | 164  | 259028   | 20.00  | ng    | 0.00      |
| 63) Phenanthrene-d10           | 11.00 | 188  | 411948   | 20.00  | ng    | 0.00      |
| 75) Chrysene-d12               | 13.62 | 240  | 267344   | 20.00  | ng    | 0.00      |
| 86) Perylene-d12               | 14.97 | 264  | 203157   | 20.00  | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.11  | 112  | 1123945  | 122.52 | ng    | 0.01      |
| 7) Phenol-d6                   | 6.17  | 99   | 1390522  | 132.77 | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 7.07  | 82   | 843516   | 83.63  | ng    | 0.00      |
| 41) 2,4,6-Tribromophenol       | 10.32 | 330  | 249882   | 122.10 | ng    | 0.00      |
| 44) 2-Fluorobiphenyl           | 8.86  | 172  | 1287276  | 84.34  | ng    | 0.00      |
| 78) Terphenyl-d14              | 12.59 | 244  | 848879   | 64.74  | ng    | 0.00      |
| Target Compounds               |       |      |          |        |       |           |
| 10) Phenol                     | 6.18  | 94   | 57070    | 4.59   | ng    | Qvalue 90 |
| 15) Benzyl Alcohol             | 6.66  | 79   | 16592    | 2.50   | ng    | # 37      |
| 19) n-Nitroso-di-n-propylamine | 7.07  | 70   | 113671   | 16.49  | ng    | # 88      |
| 25) Isophorone                 | 7.07  | 82   | 826587   | 41.85  | ng    | # 67      |
| 49) Dimethylphthalate          | 9.26  | 163  | 134886   | 6.86   | ng    | 99        |
| 56) 2,4-Dinitrotoluene         | 9.52  | 165  | 32660    | 6.81   | ng    | # 33      |
| 66) 4-Bromophenyl-phenylether  | 10.32 | 248  | 16085    | 3.91   | ng    | # 1       |

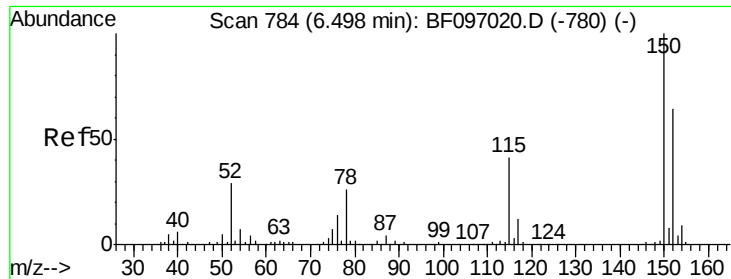
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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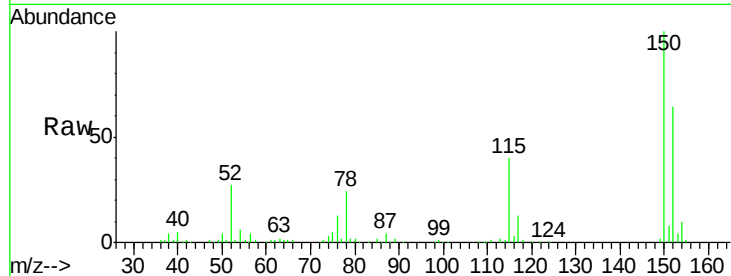


#1

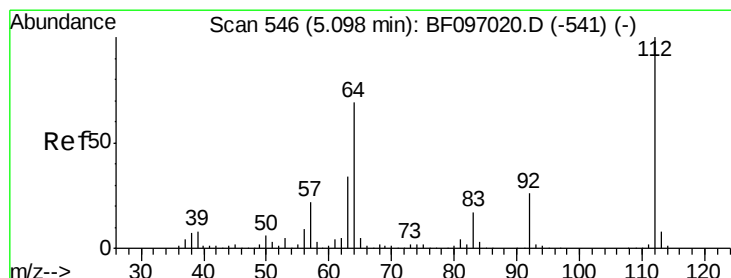
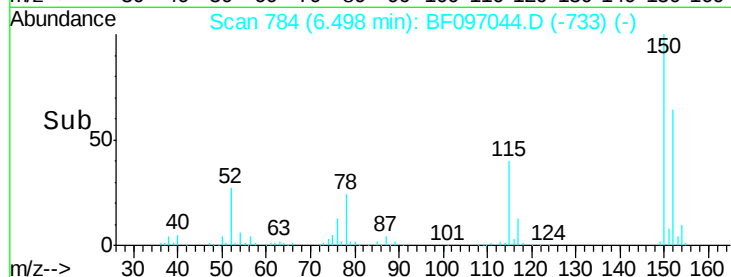
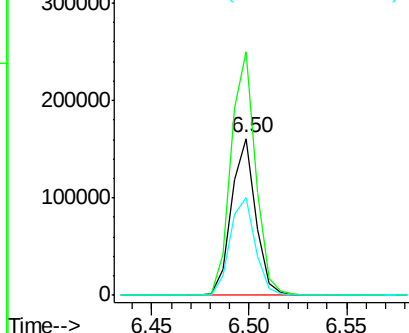
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.50 min Scan# 784  
Delta R.T. 0.00 min  
Lab File: BF097044.D  
Acq: 25 Jul 2017 22:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 138293  
Ion Ratio Lower Upper  
152 100  
150 155.2 126.2 189.2  
115 62.4 52.2 78.2



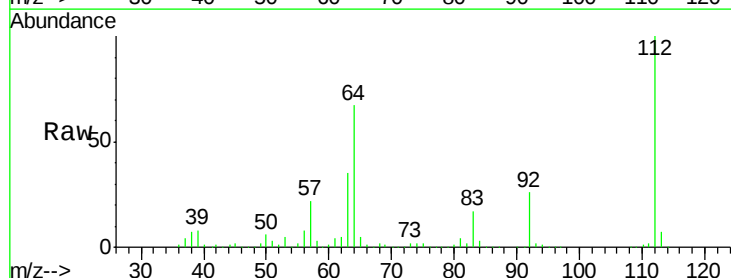
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



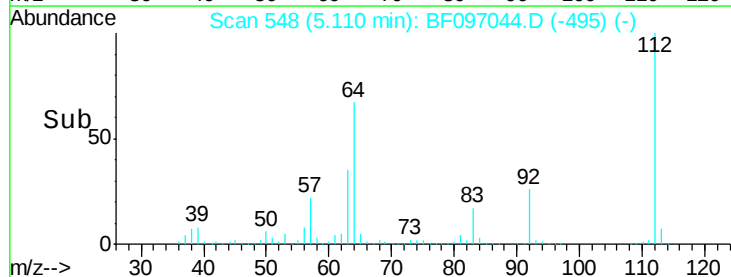
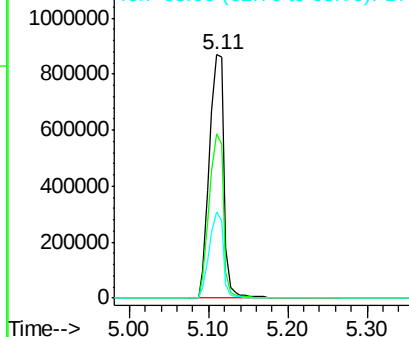
#5

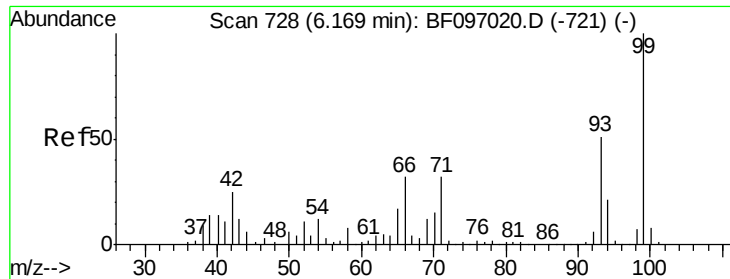
2-Fluorophenol  
Concen: 122.52 ng  
RT: 5.11 min Scan# 548  
Delta R.T. 0.01 min  
Lab File: BF097044.D  
Acq: 25 Jul 2017 22:16

Tgt Ion:112 Resp: 1123945  
Ion Ratio Lower Upper  
112 100  
64 67.4 46.0 69.0  
63 35.3 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: 132.77 ng

RT: 6.17 min Scan# 728

Delta R.T. 0.00 min

Lab File: BF097044.D

Acq: 25 Jul 2017 22:16

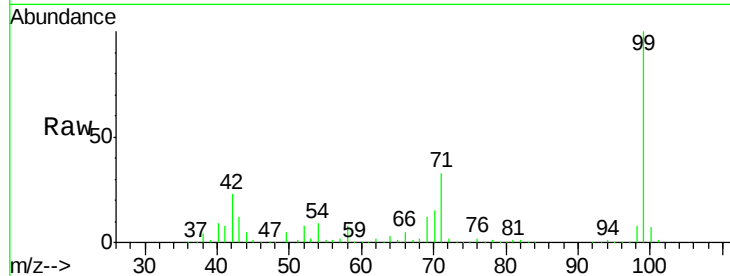
Instrument :

BNA\_F

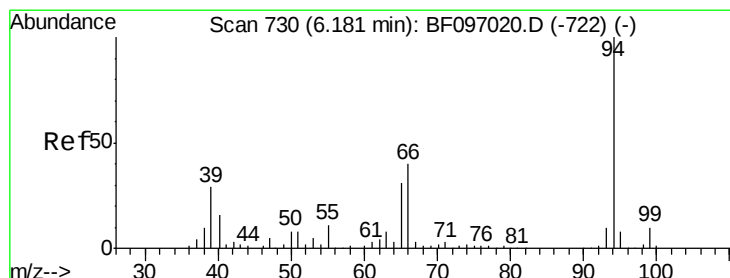
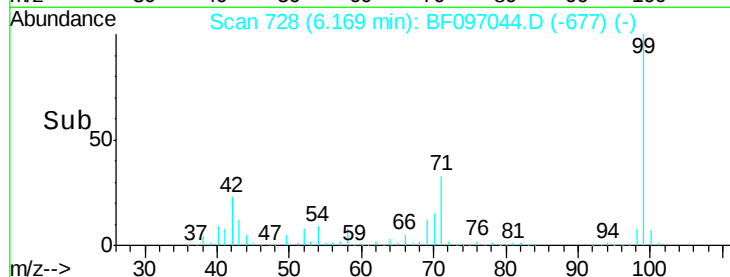
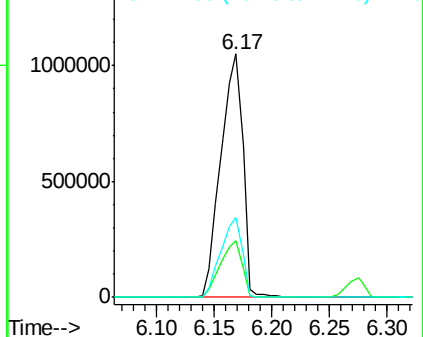
ClientSampleId :

Tot Ion: 99 Resp: 1390522

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 23.4  | 13.5  | 20.3# |
| 71  | 33.0  | 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: 4.59 ng

RT: 6.18 min Scan# 730

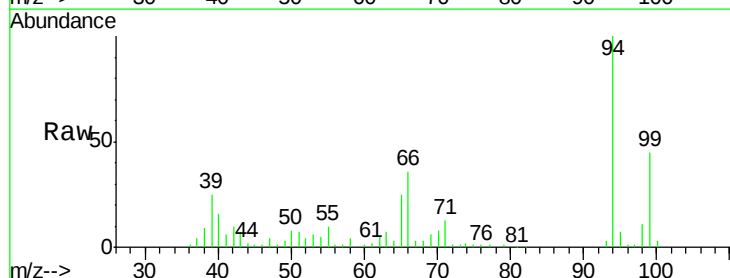
Delta R.T. 0.00 min

Lab File: BF097044.D

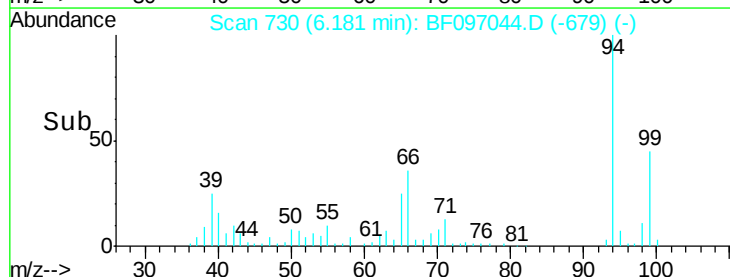
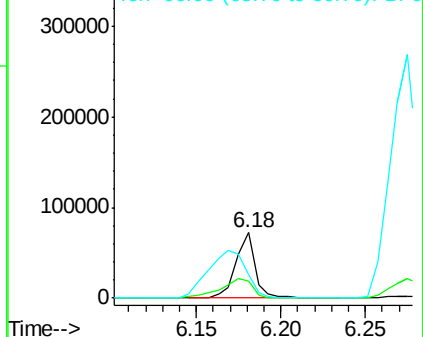
Acq: 25 Jul 2017 22:16

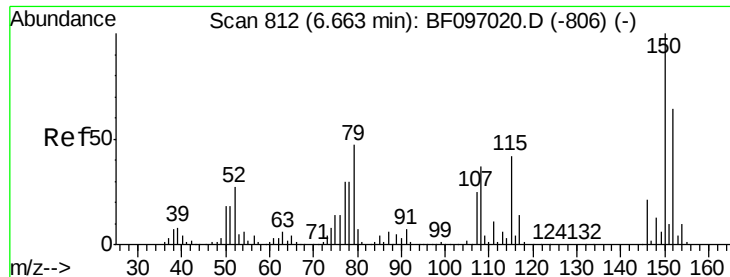
Tgt Ion: 94 Resp: 57070

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 25.1  | 9.9   | 49.9  |
| 66  | 36.0  | 23.1  | 63.1  |



Abundance Ion 94.00 (93.70 to 94.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0





#15

Benzyl Alcohol

Concen: 2.50 ng

RT: 6.66 min Scan# 811

Delta R.T. -0.01 min

Lab File: BF097044.D

Acq: 25 Jul 2017 22:16

Instrument :

BNA\_F

ClientSampleId :

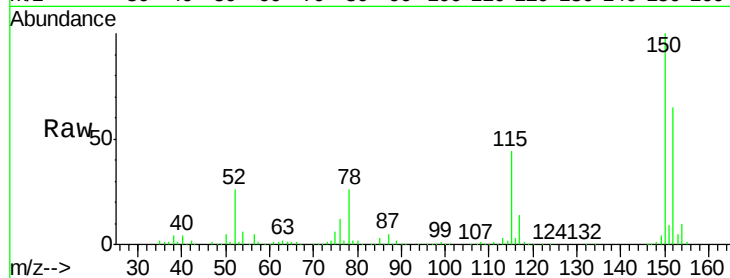
Tot Ion: 79 Resp: 16592

Ion Ratio Lower Upper

79 100

108 30.2 63.4 95.0#

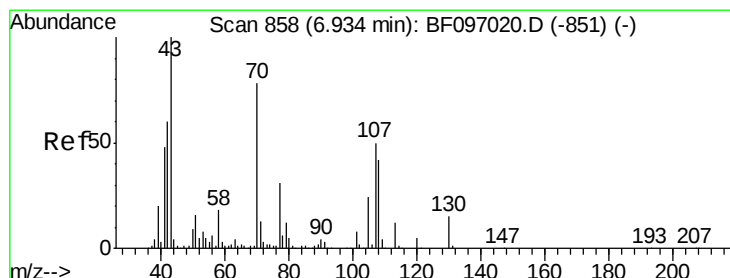
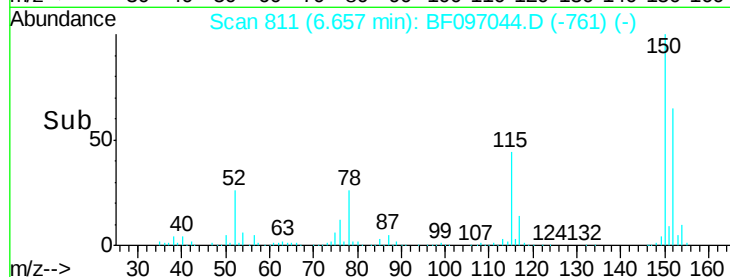
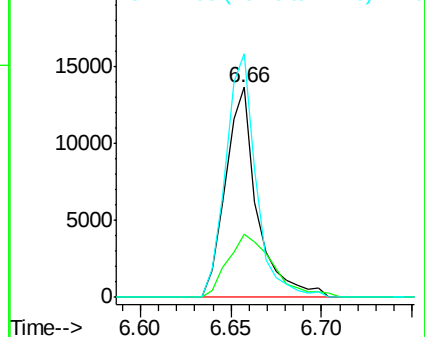
77 116.0 49.2 73.8#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 16.49 ng

RT: 7.07 min Scan# 881

Delta R.T. 0.14 min

Lab File: BF097044.D

Acq: 25 Jul 2017 22:16

Tgt Ion: 70 Resp: 113671

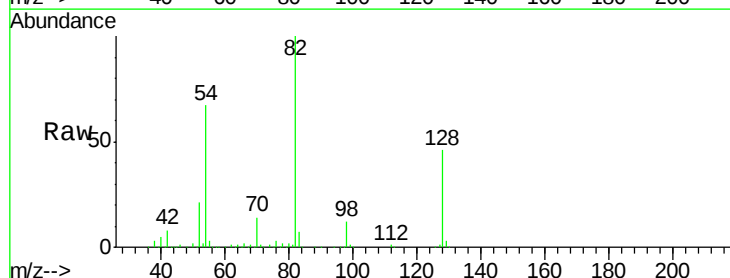
Ion Ratio Lower Upper

70 100

42 59.6 47.2 70.8

101 0.0 7.2 10.8#

130 2.4 15.9 23.9#

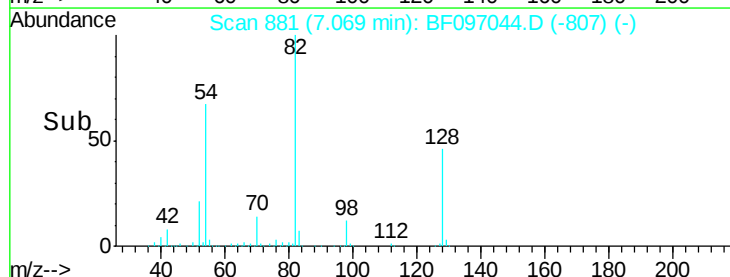
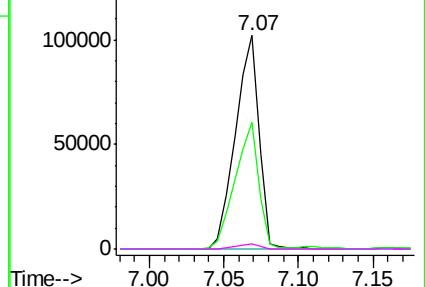


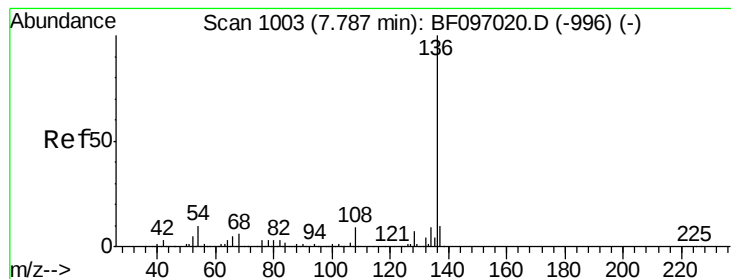
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.78 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BF097044.D

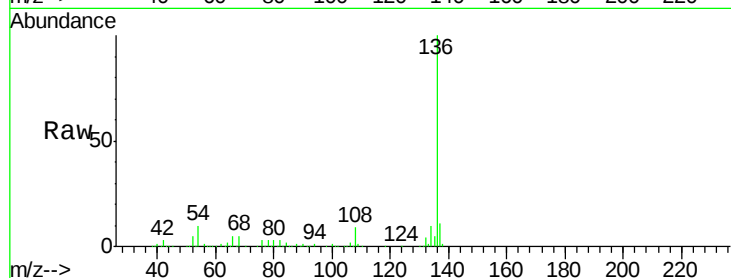
Acq: 25 Jul 2017 22:16

Instrument :

BNA\_F

ClientSampled :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 591685   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.0  | 8.5 12.7 |
| 54          | 10.0  | 4.9 7.3# |
| 68          | 5.0   | 4.1 6.1  |

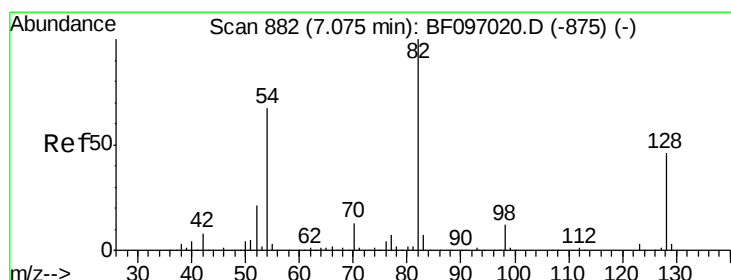
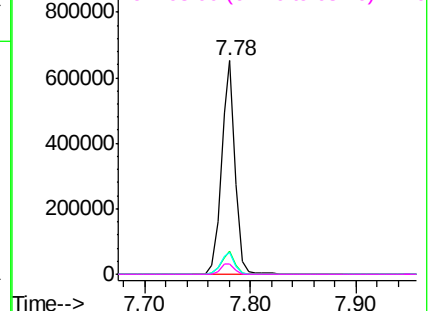
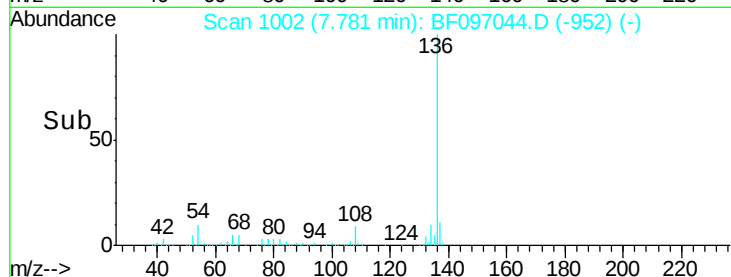


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 83.63 ng

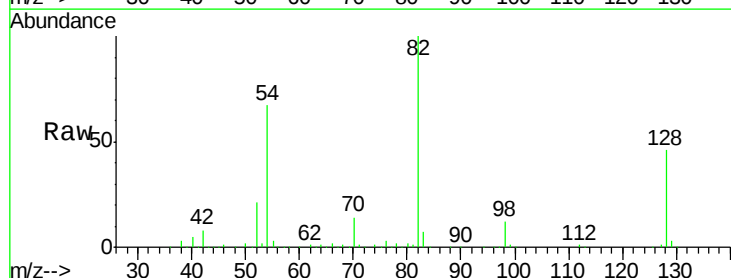
RT: 7.07 min Scan# 881

Delta R.T. -0.01 min

Lab File: BF097044.D

Acq: 25 Jul 2017 22:16

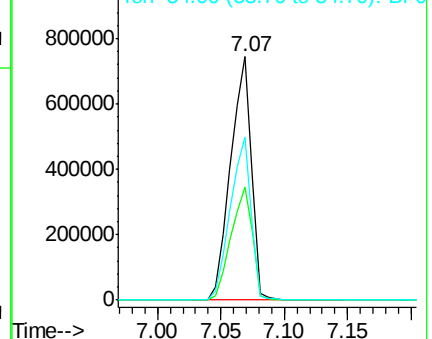
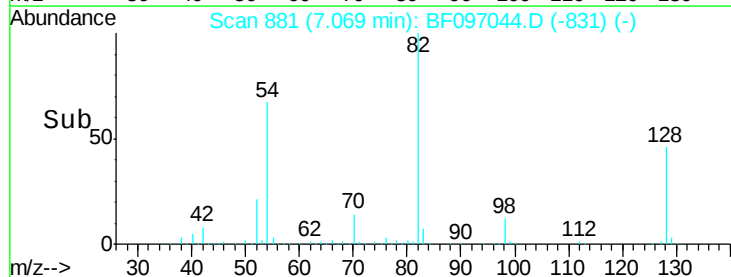
|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 843516     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 46.2  | 34.0 51.0  |
| 54          | 66.9  | 42.2 63.2# |

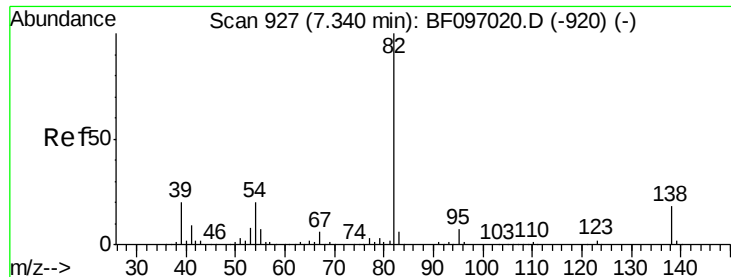


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 41.85 ng

RT: 7.07 min Scan# 881

Delta R.T. -0.27 min

Lab File: BF097044.D

Acq: 25 Jul 2017 22:16

Instrument :

BNA\_F

ClientSampled :

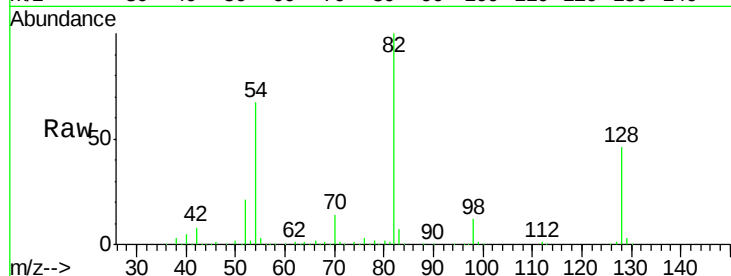
Tot Ion: 82 Resp: 826587

Ion Ratio Lower Upper

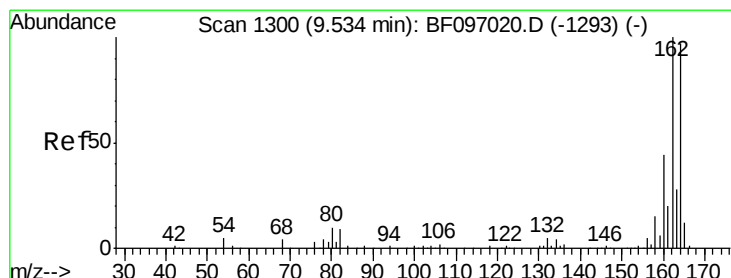
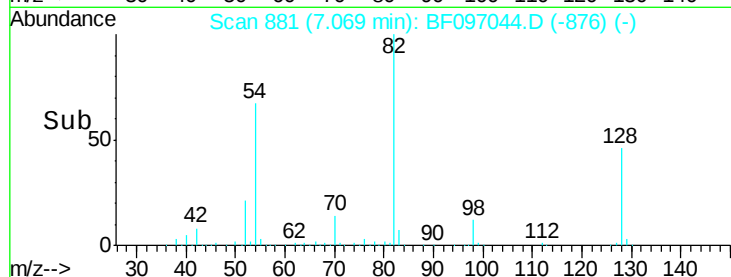
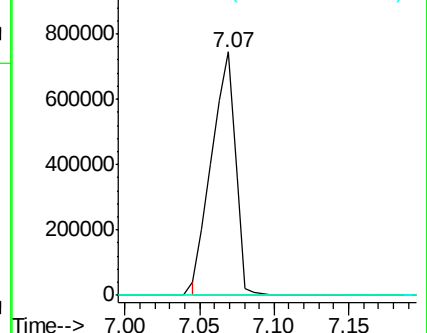
82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.53 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF097044.D

Acq: 25 Jul 2017 22:16

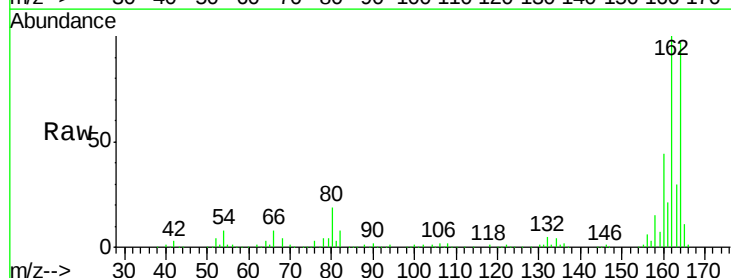
Tgt Ion: 164 Resp: 259028

Ion Ratio Lower Upper

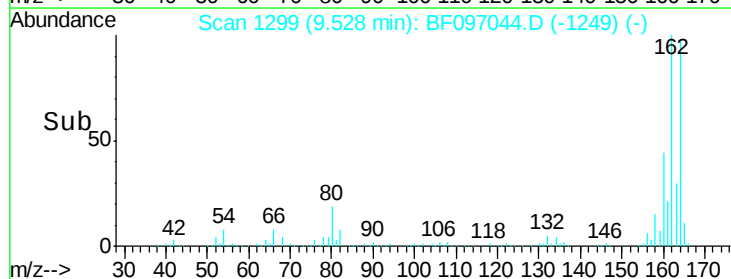
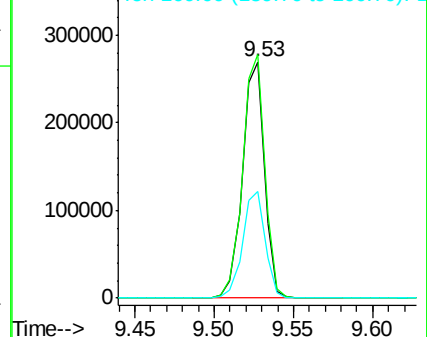
164 100

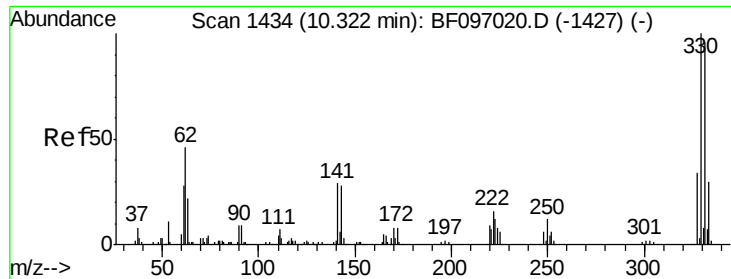
162 103.1 82.6 123.8

160 45.2 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

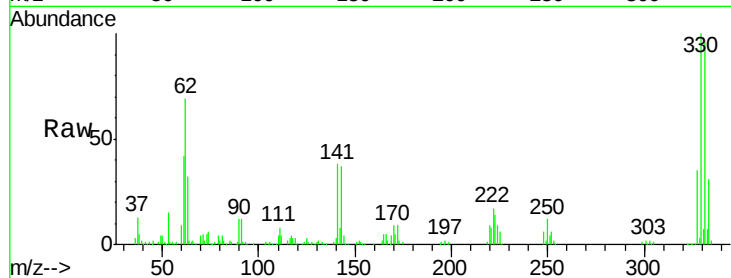




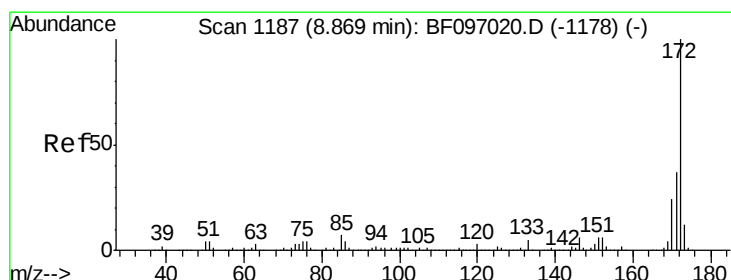
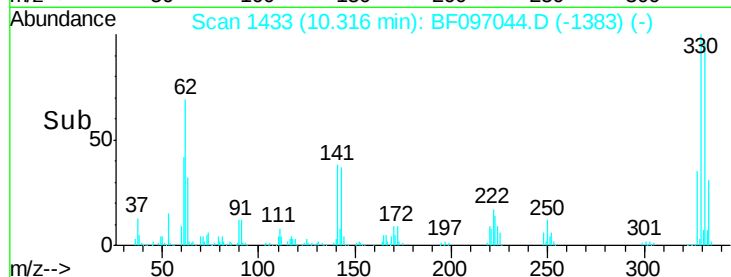
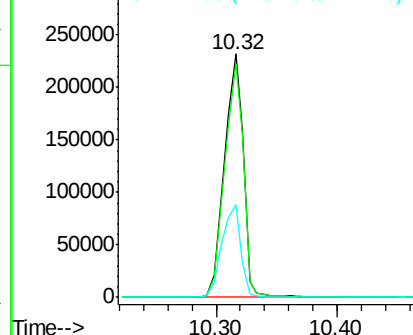
#41  
 2,4,6-Tribromophenol  
 Concen: 122.10 ng  
 RT: 10.32 min Scan# 1433  
 Delta R.T. -0.01 min  
 Lab File: BF097044.D  
 Acq: 25 Jul 2017 22:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 249882  
 Ion Ratio Lower Upper  
 330 100  
 332 95.6 76.6 115.0  
 141 38.3 31.4 47.2

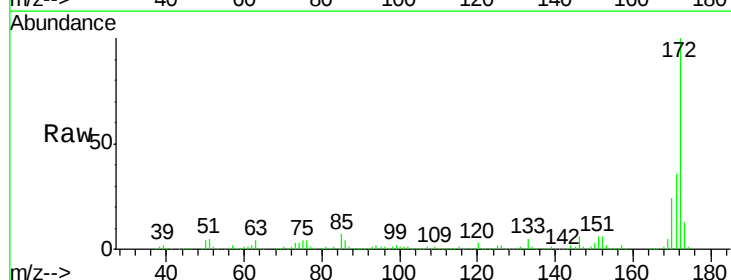


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

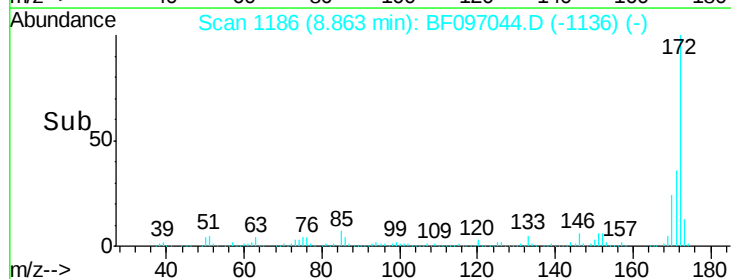
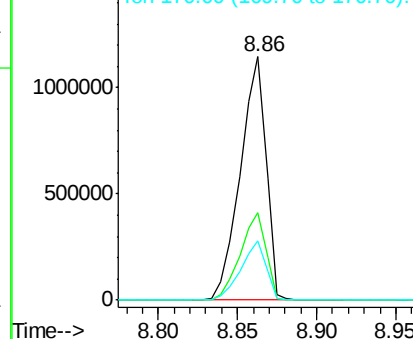


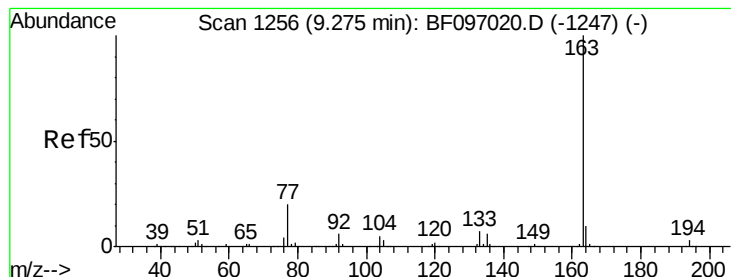
#44  
 2-Fluorobiphenyl  
 Concen: 84.34 ng  
 RT: 8.86 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF097044.D  
 Acq: 25 Jul 2017 22:16

Tgt Ion:172 Resp: 1287276  
 Ion Ratio Lower Upper  
 172 100  
 171 35.9 29.6 44.4  
 170 24.4 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: 6.86 ng

RT: 9.26 min Scan# 1253

Delta R.T. -0.02 min

Lab File: BF097044.D

Acq: 25 Jul 2017 22:16

Instrument :

BNA\_F

ClientSampleId :

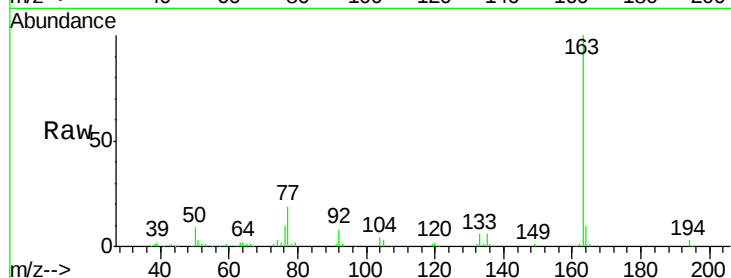
Tot Ion:163 Resp: 134886

Ion Ratio Lower Upper

163 100

194 2.7 2.6 4.0

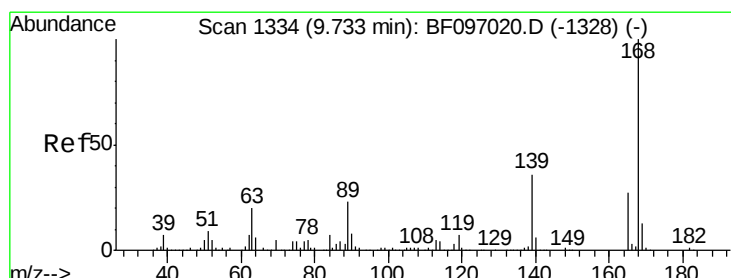
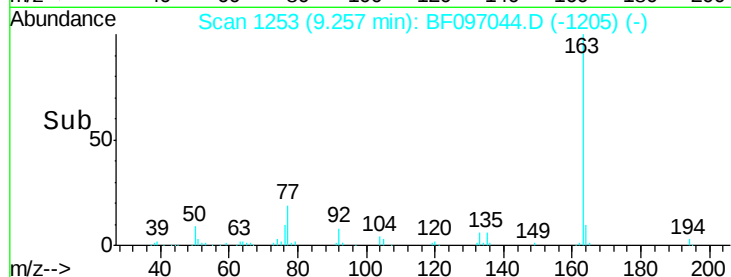
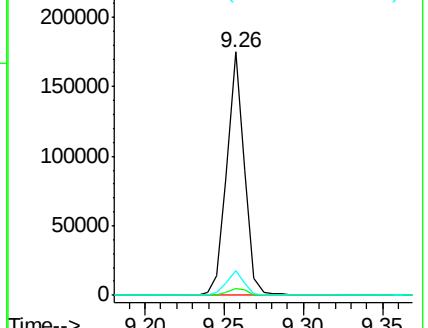
164 10.0 8.4 12.6



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: 6.81 ng

RT: 9.52 min Scan# 1298

Delta R.T. -0.21 min

Lab File: BF097044.D

Acq: 25 Jul 2017 22:16

Tgt Ion:165 Resp: 32660

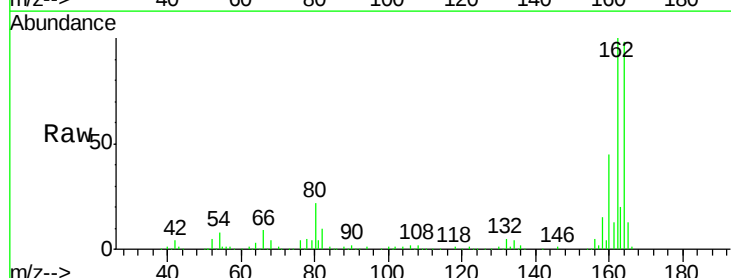
Ion Ratio Lower Upper

165 100

63 1.4 25.4 38.0#

89 1.3 46.4 69.6#

182 0.0 1.8 2.6#

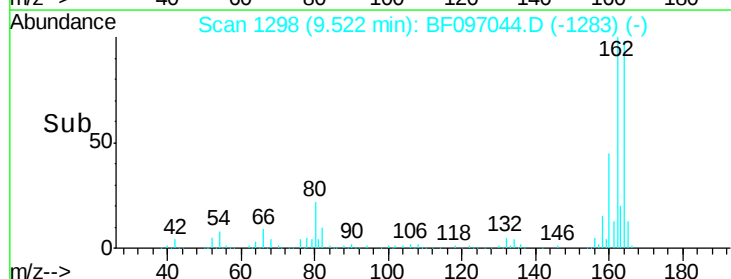
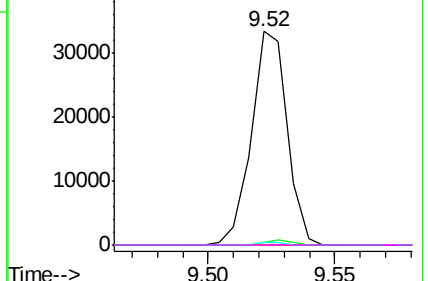


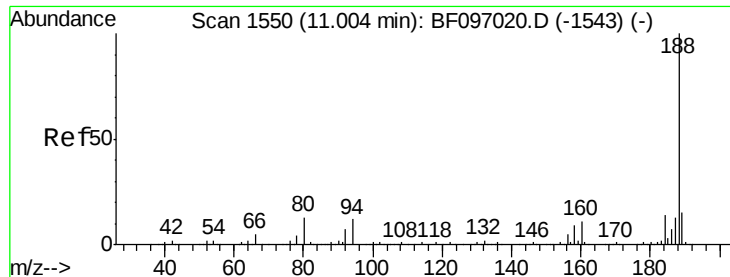
Abundance Ion 165.00 (164.70 to 165.70): E

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

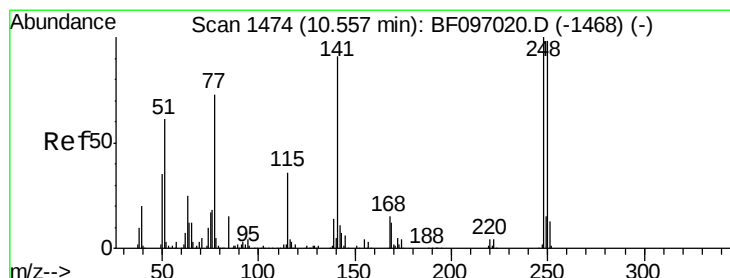
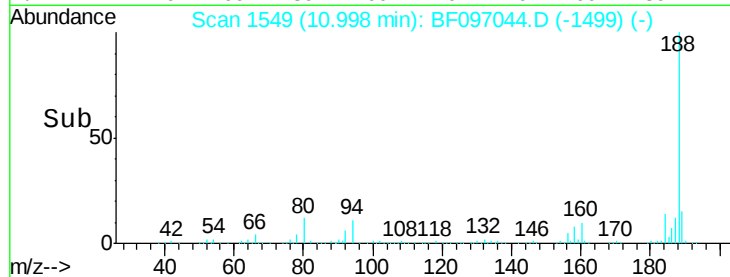
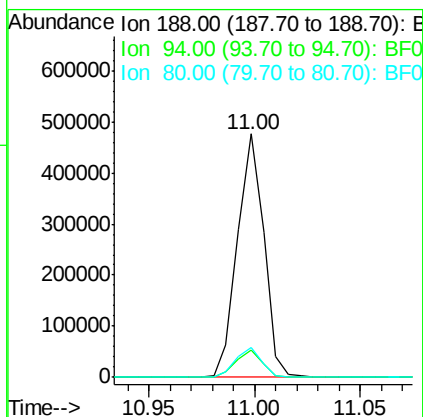
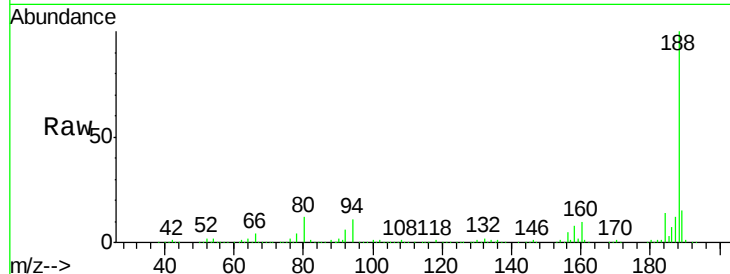




#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.00 min Scan# 1549  
 Delta R.T. -0.01 min  
 Lab File: BF097044.D  
 Acq: 25 Jul 2017 22:16

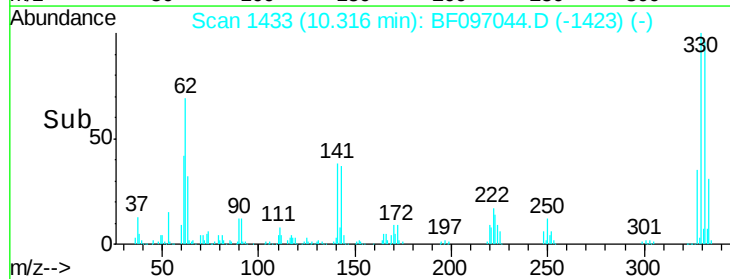
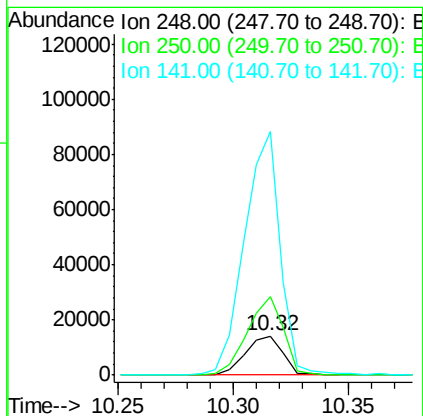
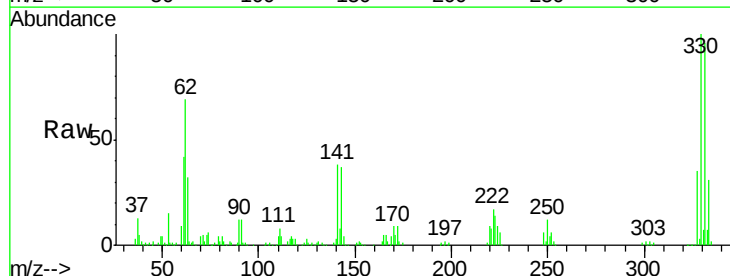
Instrument :  
 BNA\_F  
 ClientSampleId :

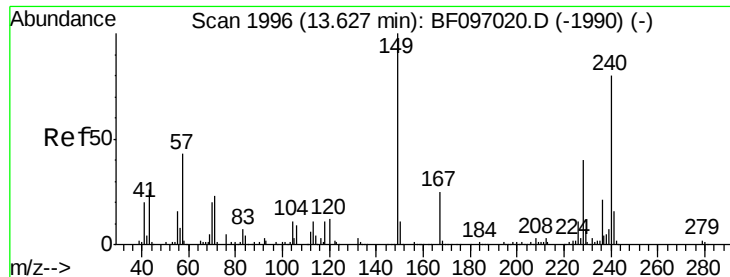
Tot Ion:188 Resp: 411948  
 Ion Ratio Lower Upper  
 188 100  
 94 11.3 9.4 14.2  
 80 12.0 10.2 15.2



#66  
 4-Bromophenyl-phenylether  
 Concen: 3.91 ng  
 RT: 10.32 min Scan# 1433  
 Delta R.T. -0.24 min  
 Lab File: BF097044.D  
 Acq: 25 Jul 2017 22:16

Tgt Ion:248 Resp: 16085  
 Ion Ratio Lower Upper  
 248 100  
 250 203.3 76.8 115.2#  
 141 626.1 68.6 103.0#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.62 min Scan# 1995

Delta R.T. -0.01 min

Lab File: BF097044.D

Acq: 25 Jul 2017 22:16

Instrument :

BNA\_F

ClientSampleId :

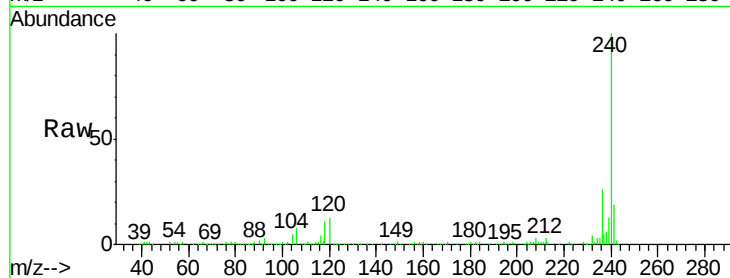
Tot Ion:240 Resp: 267344

Ion Ratio Lower Upper

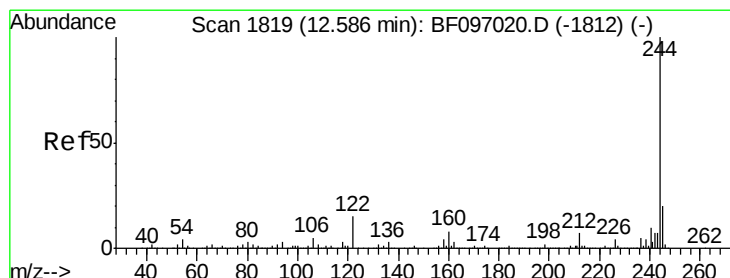
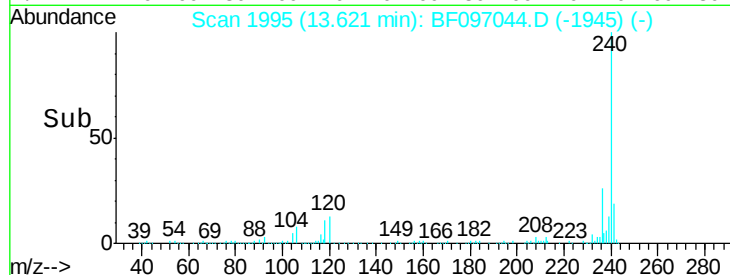
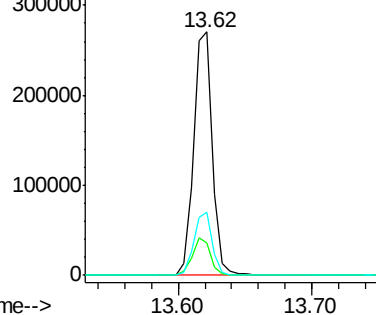
240 100

120 13.5 5.8 8.8#

236 26.1 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: 64.74 ng

RT: 12.59 min Scan# 1819

Delta R.T. 0.00 min

Lab File: BF097044.D

Acq: 25 Jul 2017 22:16

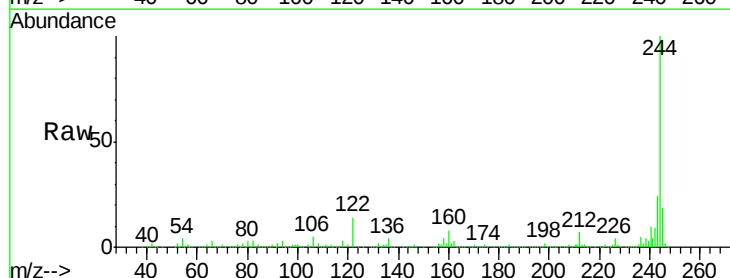
Tgt Ion:244 Resp: 848879

Ion Ratio Lower Upper

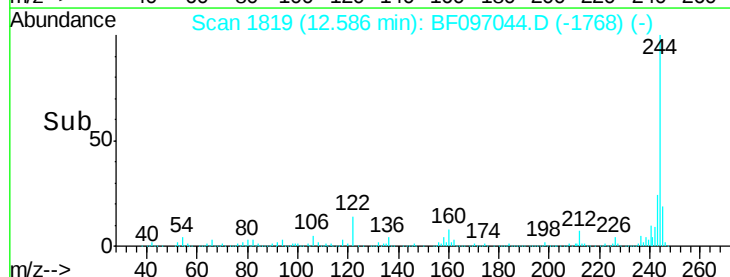
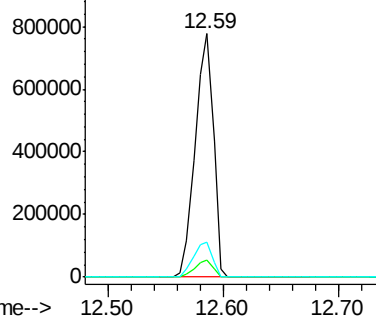
244 100

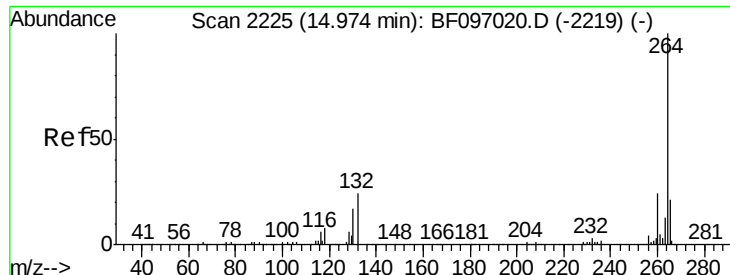
212 7.1 6.0 9.0

122 14.2 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E





#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 14.97 min Scan# 2224  
 Delta R.T. -0.01 min  
 Lab File: BF097044.D  
 Acq: 25 Jul 2017 22:16

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.5  | 29.3  |
| 265     | 21.5  | 17.2  | 25.8  |

