

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080217\  
 Data File : BF097309.D  
 Acq On : 3 Aug 2017 9:40  
 Operator : SJ/JU  
 Sample : I4537-08  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 03 12:00:43 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

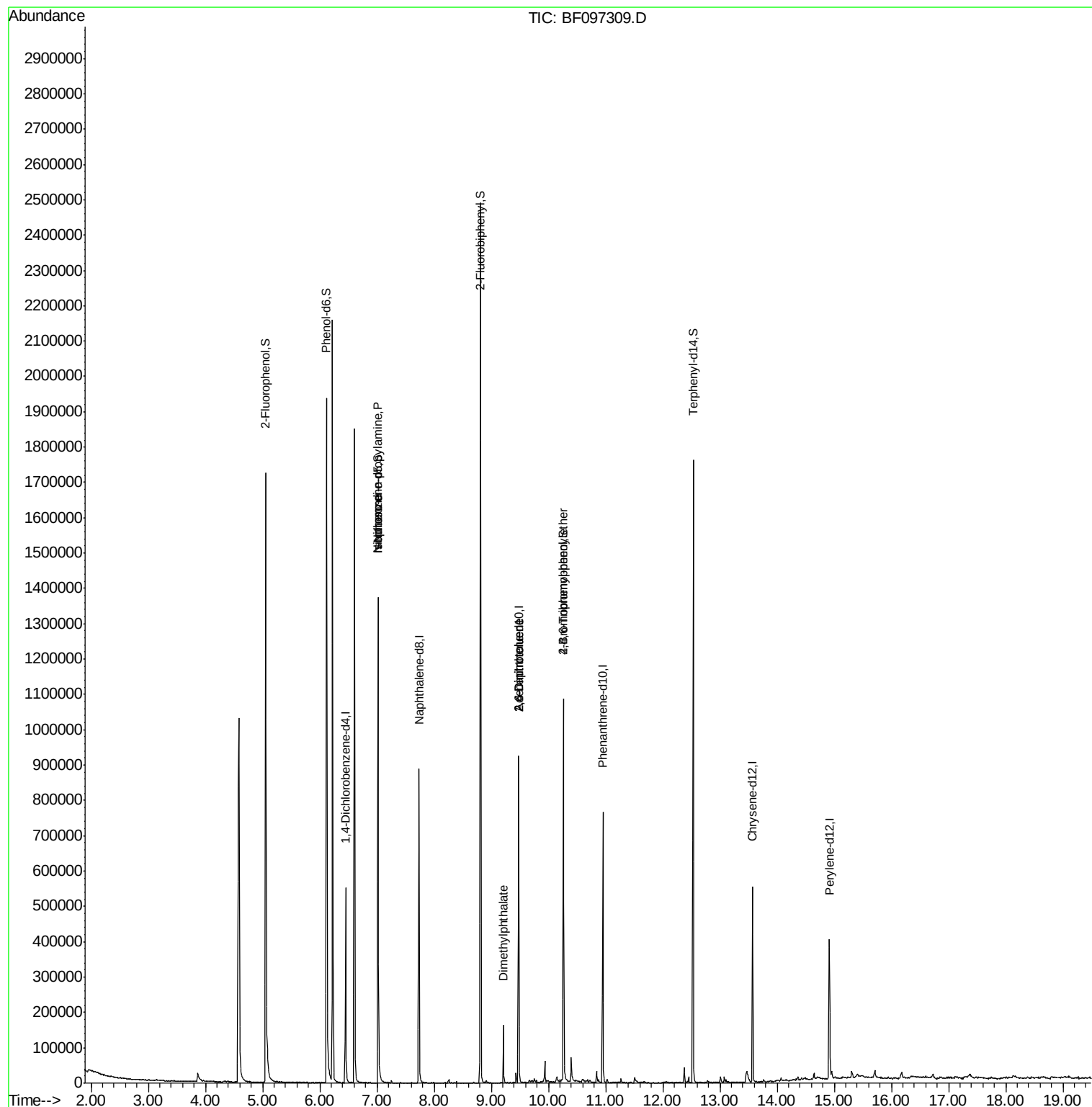
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.45  | 152  | 91880    | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8             | 7.73  | 136  | 394616   | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.47  | 164  | 182964   | 20.00  | ng    | -0.06    |
| 63) Phenanthrene-d10           | 10.95 | 188  | 285916   | 20.00  | ng    | -0.05    |
| 75) Chrysene-d12               | 13.57 | 240  | 180974   | 20.00  | ng    | -0.06    |
| 86) Perylene-d12               | 14.92 | 264  | 156679   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.05  | 112  | 535405   | 87.84  | ng    | -0.05    |
| 7) Phenol-d6                   | 6.12  | 99   | 713136   | 102.49 | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 7.02  | 82   | 439333   | 65.31  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 10.26 | 330  | 116159   | 80.35  | ng    | -0.06    |
| 44) 2-Fluorobiphenyl           | 8.81  | 172  | 802928   | 74.48  | ng    | -0.06    |
| 78) Terphenyl-d14              | 12.53 | 244  | 536395   | 60.43  | ng    | -0.05    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.02  | 70   | 58637    | 12.803 | ng    | # 88     |
| 25) Isophorone                 | 7.02  | 82   | 426086   | 32.344 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.21  | 163  | 62325    | 4.486  | ng    | # 99     |
| 50) 2,6-Dinitrotoluene         | 9.47  | 165  | 22528    | 7.645  | ng    | # 33     |
| 56) 2,4-Dinitrotoluene         | 9.47  | 165  | 22528    | 6.650  | ng    | # 32     |
| 66) 4-Bromophenyl-phenylether  | 10.26 | 248  | 7447     | 2.610  | ng    | # 1      |

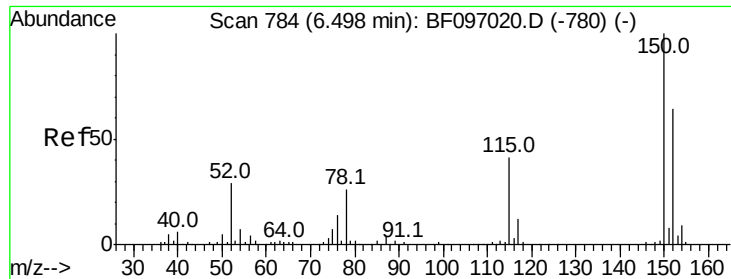
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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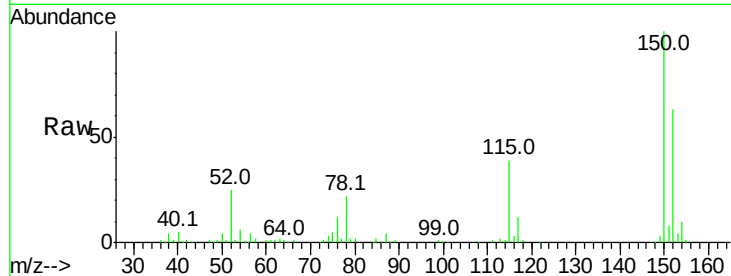


#1

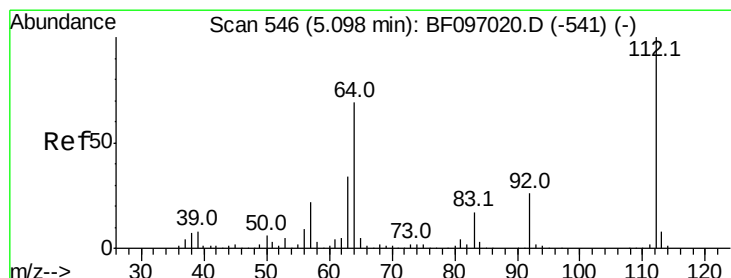
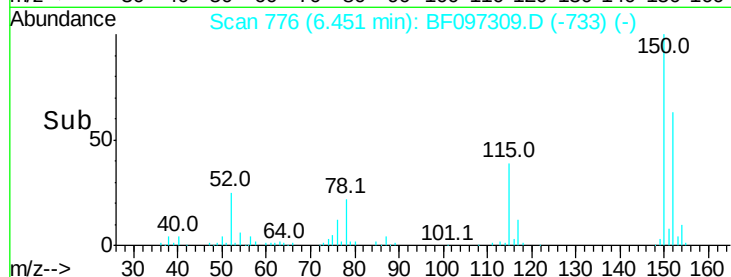
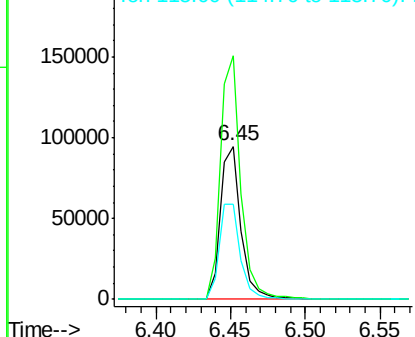
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.45 min Scan# 776  
Delta R.T. -0.05 min  
Lab File: BF097309.D  
Acq: 3 Aug 2017 9:40

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 91880  
Ion Ratio Lower Upper  
152 100  
150 159.0 126.2 189.2  
115 62.2 52.2 78.2



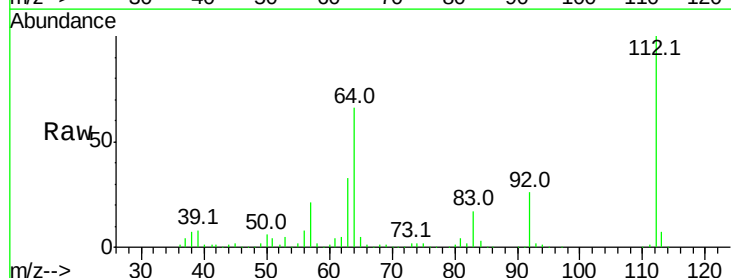
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



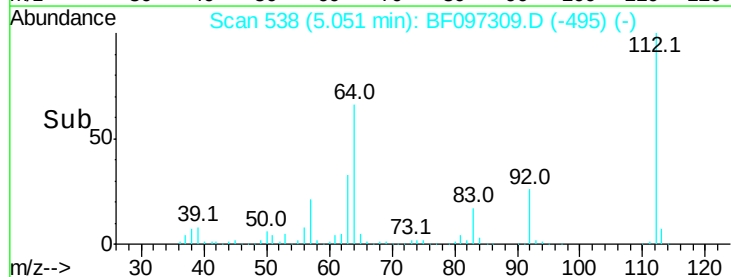
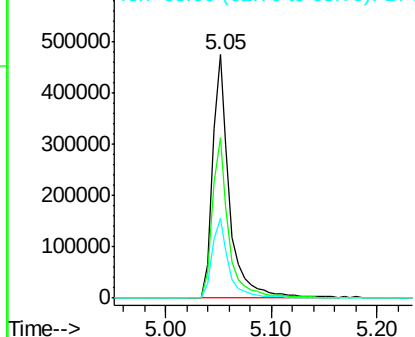
#5

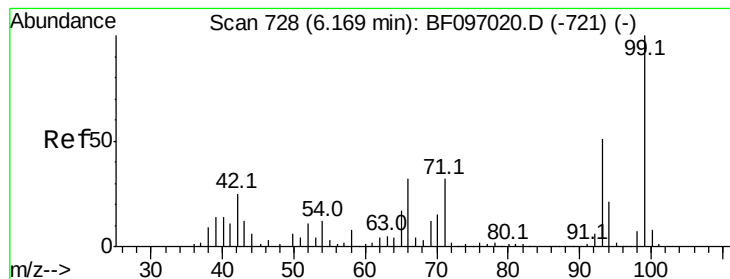
2-Fluorophenol  
Concen: 87.845 ng  
RT: 5.05 min Scan# 538  
Delta R.T. -0.05 min  
Lab File: BF097309.D  
Acq: 3 Aug 2017 9:40

Tgt Ion:112 Resp: 535405  
Ion Ratio Lower Upper  
112 100  
64 65.8 46.0 69.0  
63 33.0 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: 102.491 ng

RT: 6.12 min Scan# 719

Delta R.T. -0.05 min

Lab File: BF097309.D

Acq: 3 Aug 2017 9:40

Instrument :

BNA\_F

ClientSampleId :

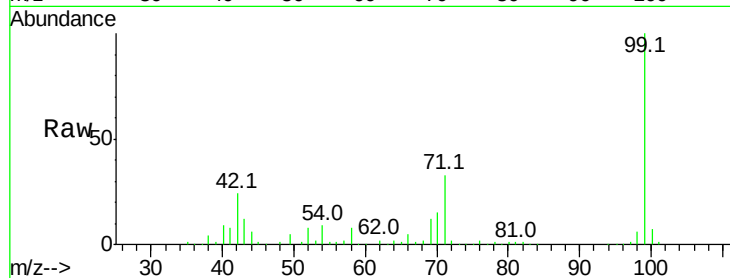
Tot Ion: 99 Resp: 713136

Ion Ratio Lower Upper

99 100

42 23.8 13.5 20.3#

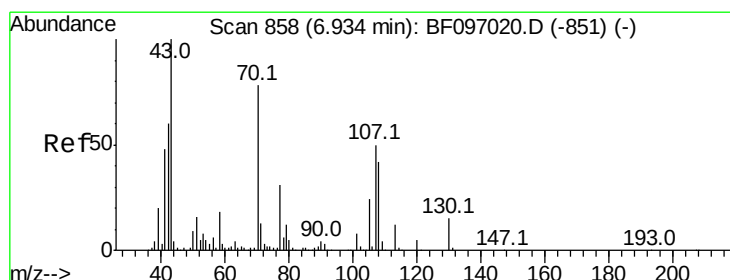
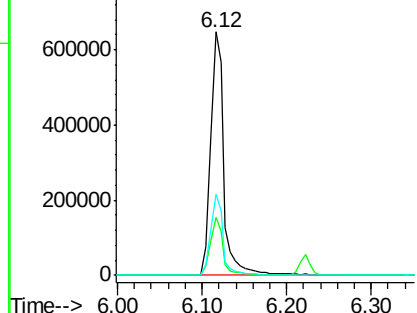
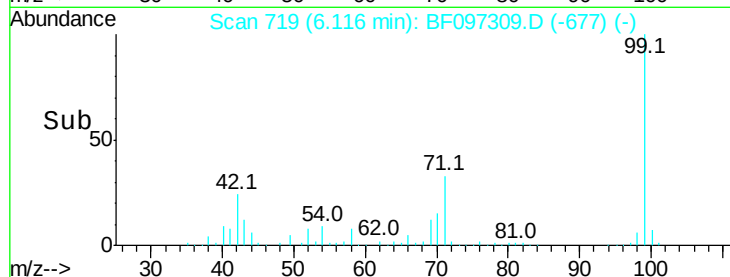
71 33.2 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 12.803 ng

RT: 7.02 min Scan# 873

Delta R.T. 0.09 min

Lab File: BF097309.D

Acq: 3 Aug 2017 9:40

Tgt Ion: 70 Resp: 58637

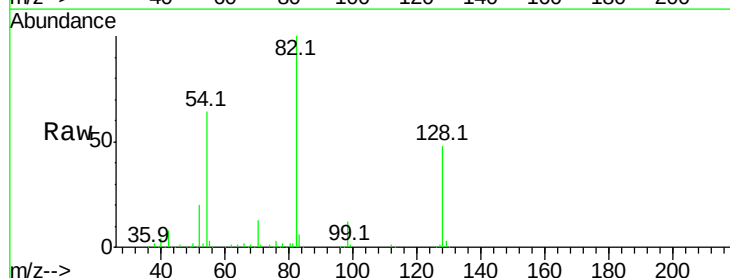
Ion Ratio Lower Upper

70 100

42 59.9 47.2 70.8

101 0.0 7.2 10.8#

130 2.3 15.9 23.9#

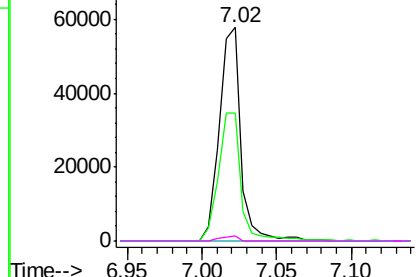
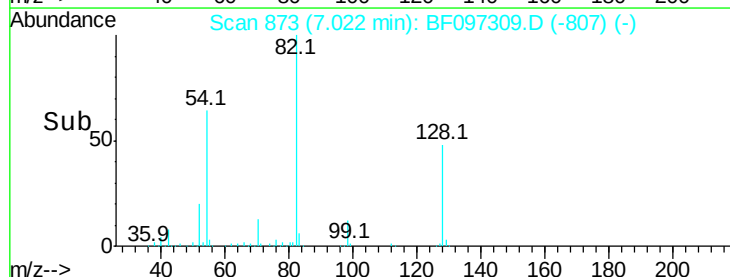


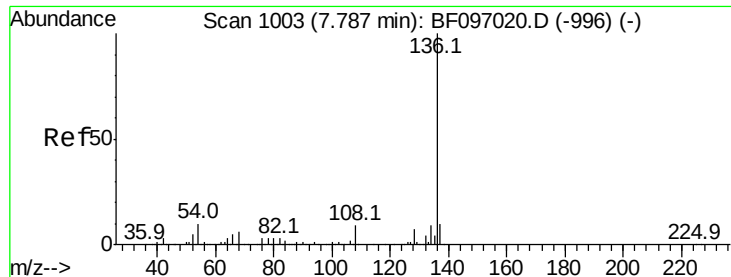
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E

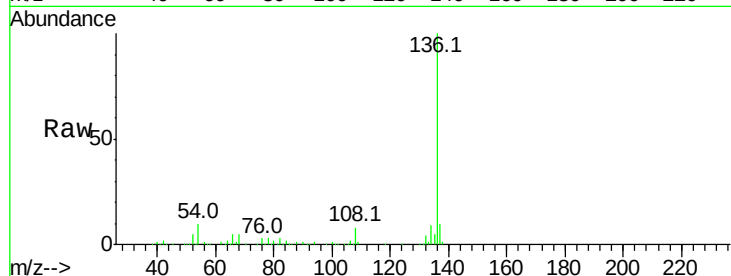




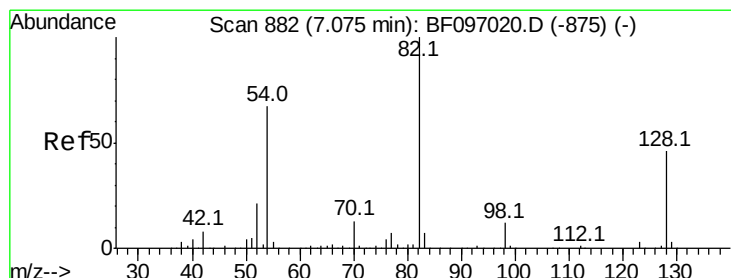
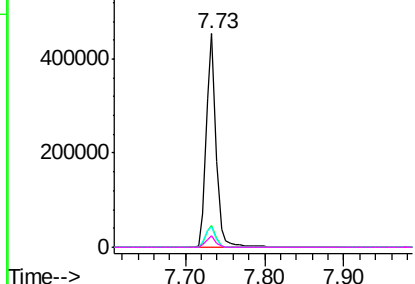
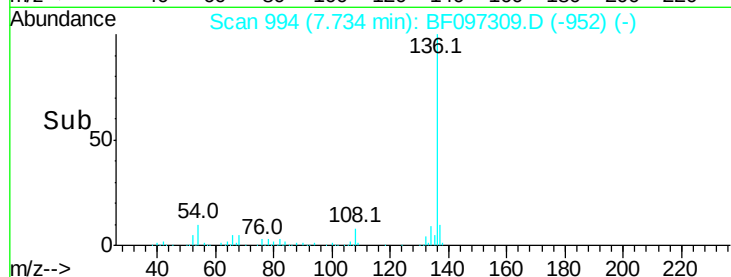
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.73 min Scan# 994  
Delta R.T. -0.05 min  
Lab File: BF097309.D  
Acq: 3 Aug 2017 9:40

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 394616   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.5  | 8.5 12.7 |
| 54          | 9.7   | 4.9 7.3# |
| 68          | 5.2   | 4.1 6.1  |

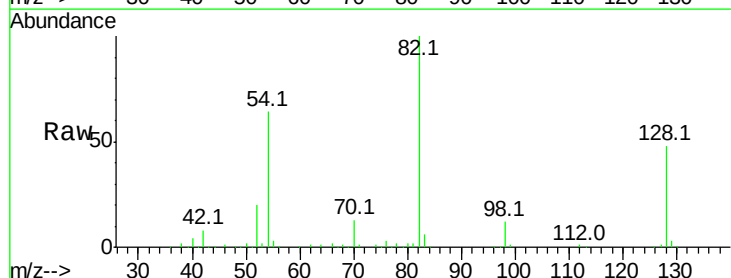


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

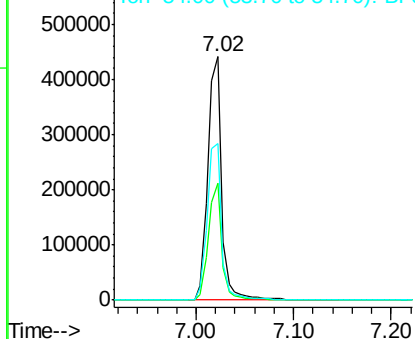
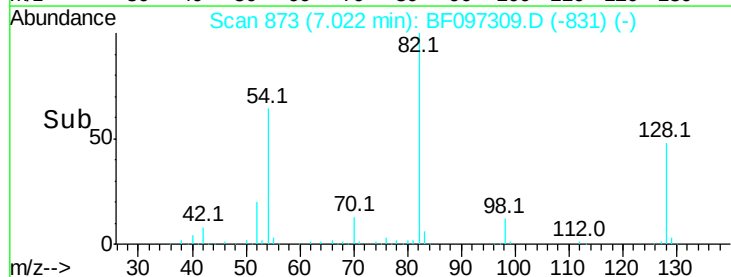


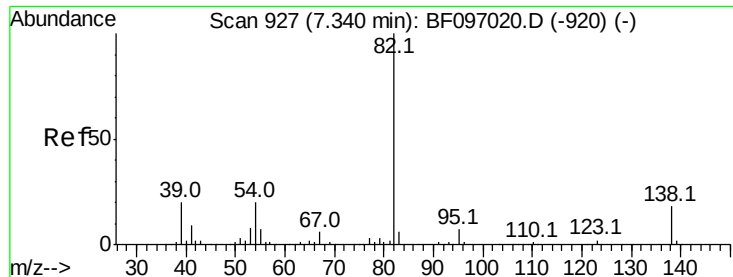
#23  
Nitrobenzene-d5  
Concen: 65.312 ng  
RT: 7.02 min Scan# 873  
Delta R.T. -0.05 min  
Lab File: BF097309.D  
Acq: 3 Aug 2017 9:40

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 439333     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 48.1  | 34.0 51.0  |
| 54          | 64.1  | 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: 32.344 ng

RT: 7.02 min Scan# 873

Delta R.T. -0.32 min

Lab File: BF097309.D

Acq: 3 Aug 2017 9:40

Instrument :

BNA\_F

ClientSampled :

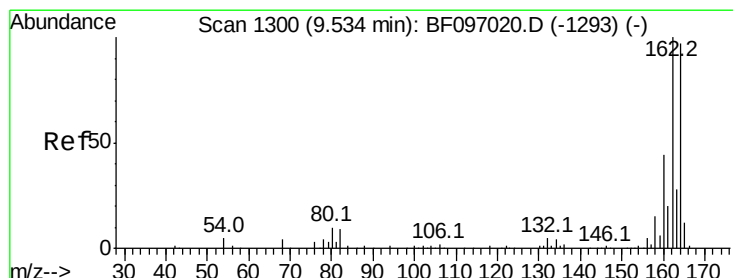
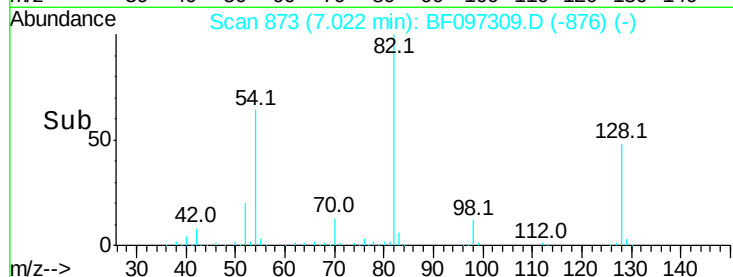
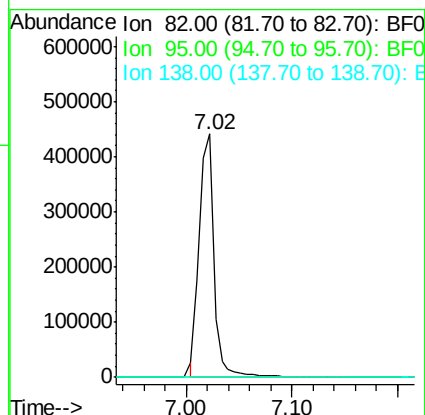
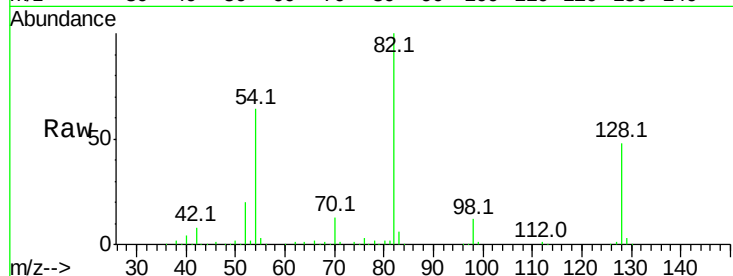
Tot Ion: 82 Resp: 426086

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.47 min Scan# 1290

Delta R.T. -0.06 min

Lab File: BF097309.D

Acq: 3 Aug 2017 9:40

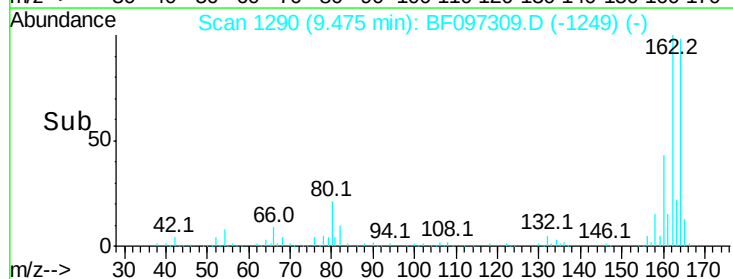
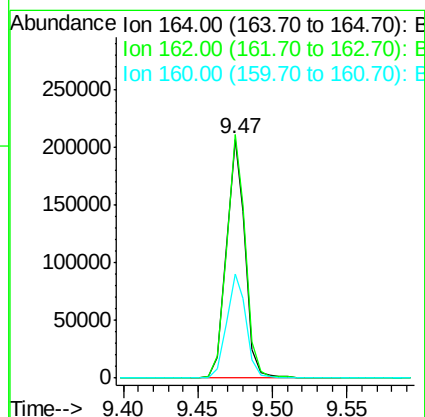
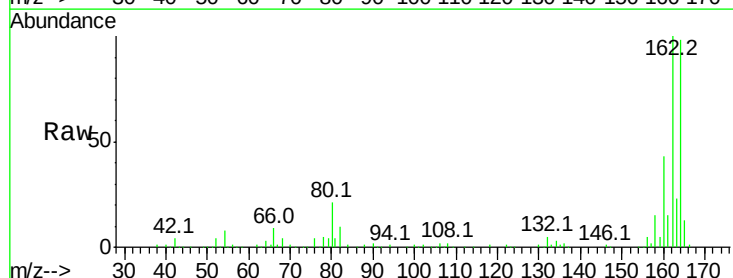
Tgt Ion: 164 Resp: 182964

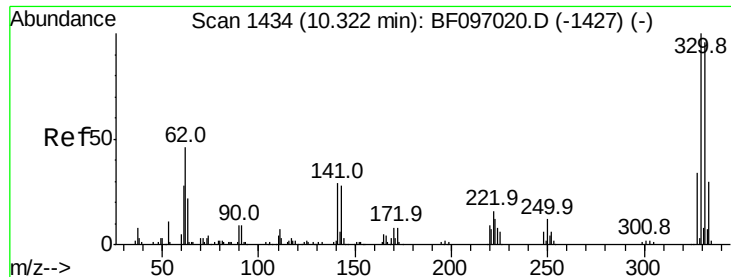
Ion Ratio Lower Upper

164 100

162 102.1 82.6 123.8

160 43.9 36.2 54.2

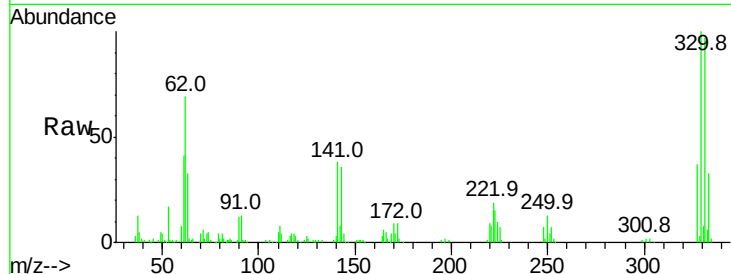




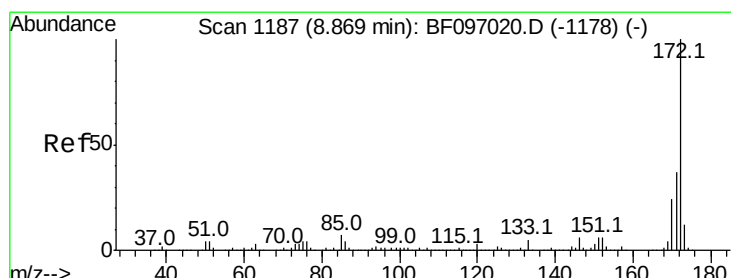
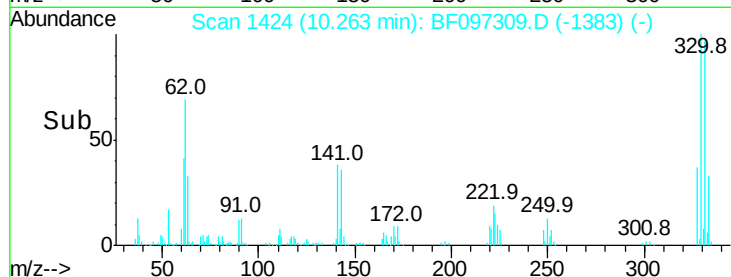
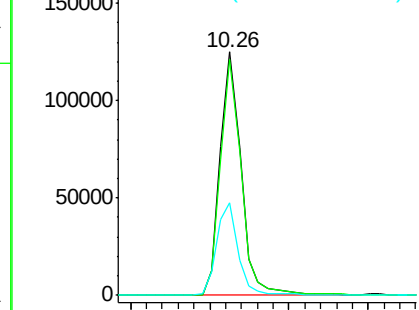
#41  
 2,4,6-Tribromophenol  
 Concen: 80.354 ng  
 RT: 10.26 min Scan# 1424  
 Delta R.T. -0.06 min  
 Lab File: BF097309.D  
 Acq: 3 Aug 2017 9:40

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.6  | 76.6  | 115.0 |
| 141     | 39.1  | 31.4  | 47.2  |

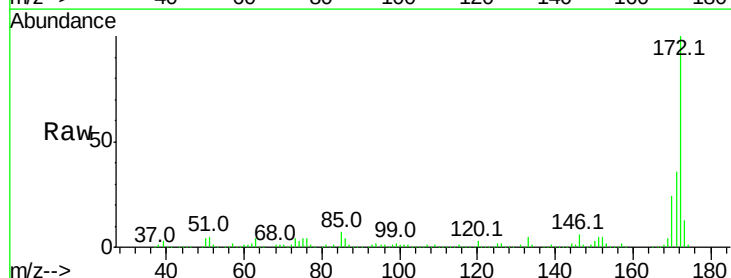


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

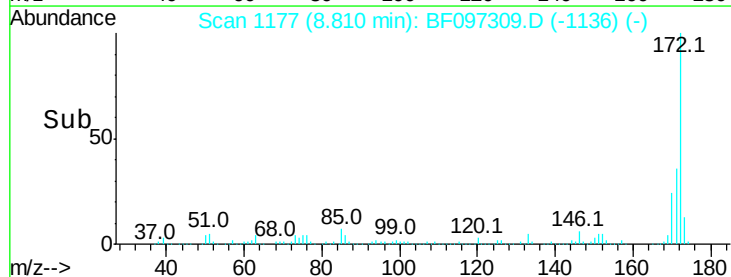
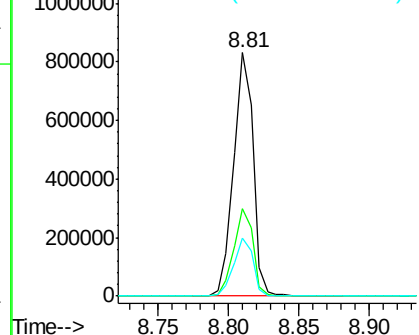


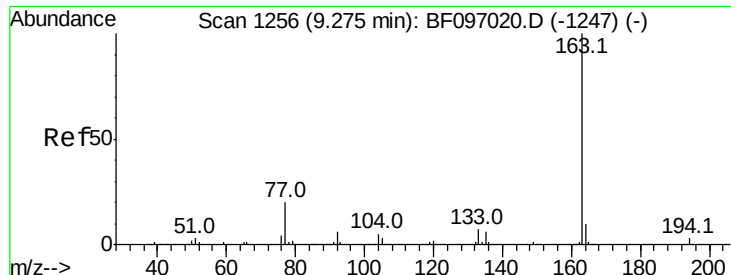
#44  
 2-Fluorobiphenyl  
 Concen: 74.476 ng  
 RT: 8.81 min Scan# 1177  
 Delta R.T. -0.06 min  
 Lab File: BF097309.D  
 Acq: 3 Aug 2017 9:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 29.6  | 44.4  |
| 170     | 23.8  | 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: 4.486 ng

RT: 9.21 min Scan# 1245

Delta R.T. -0.06 min

Lab File: BF097309.D

Acq: 3 Aug 2017 9:40

Instrument :

BNA\_F

ClientSampleId :

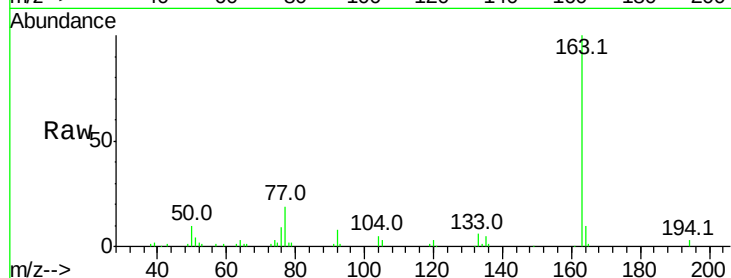
Tot Ion:163 Resp: 62325

Ion Ratio Lower Upper

163 100

194 2.7 2.6 4.0

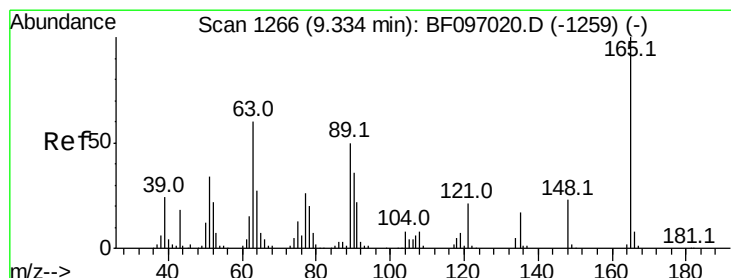
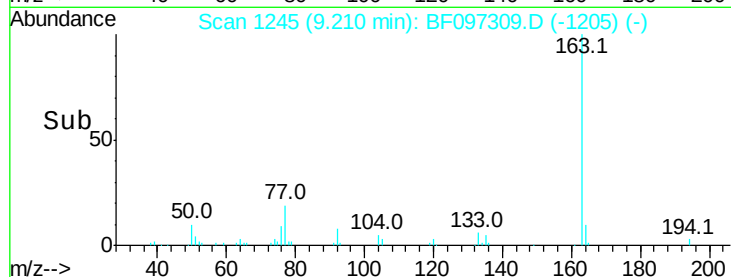
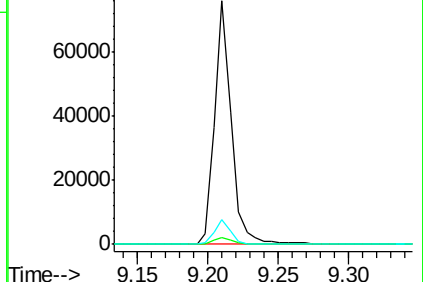
164 10.1 8.4 12.6



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



#50

2,6-Dinitrotoluene

Concen: 7.645 ng

RT: 9.47 min Scan# 1290

Delta R.T. 0.14 min

Lab File: BF097309.D

Acq: 3 Aug 2017 9:40

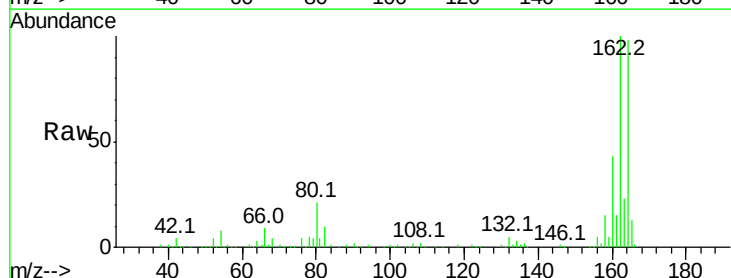
Tgt Ion:165 Resp: 22528

Ion Ratio Lower Upper

165 100

63 1.6 34.3 51.5#

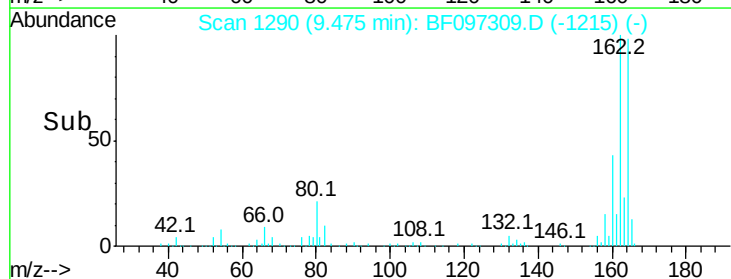
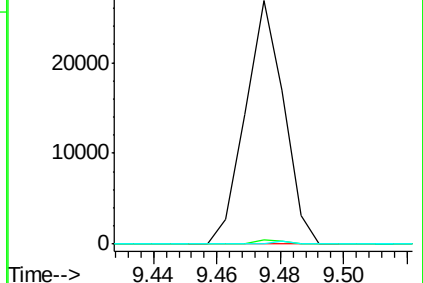
89 0.0 37.1 55.7#



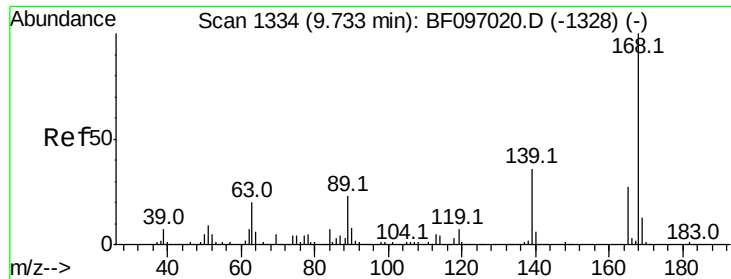
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



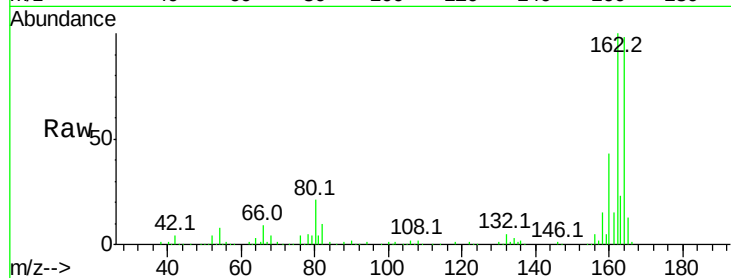




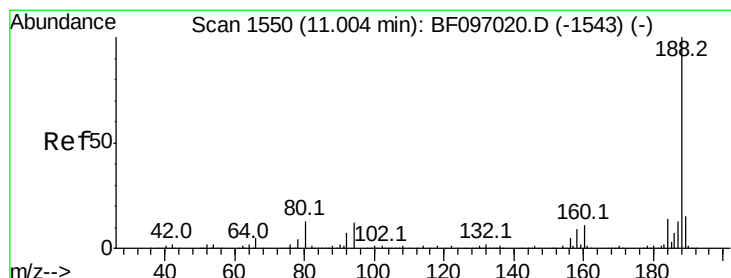
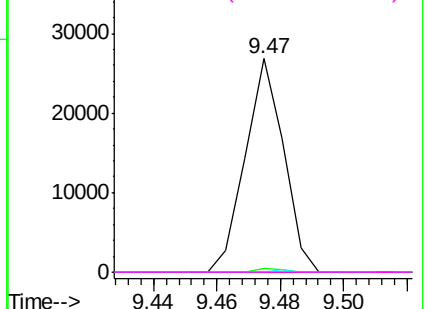
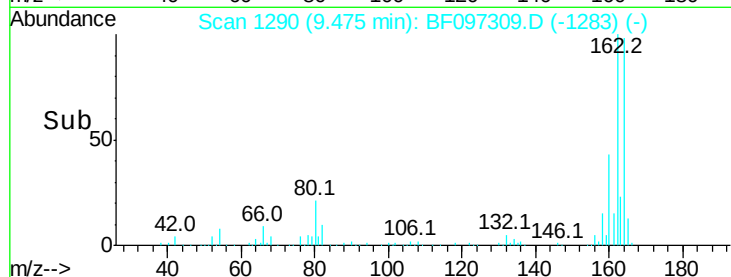
#56  
 2,4-Dinitrotoluene  
 Concen: 6.650 ng  
 RT: 9.47 min Scan# 1290  
 Delta R.T. -0.26 min  
 Lab File: BF097309.D  
 Acq: 3 Aug 2017 9:40

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 22528  
 Ion Ratio Lower Upper  
 165 100  
 63 1.6 25.4 38.0#  
 89 0.0 46.4 69.6#  
 182 0.0 1.8 2.6#

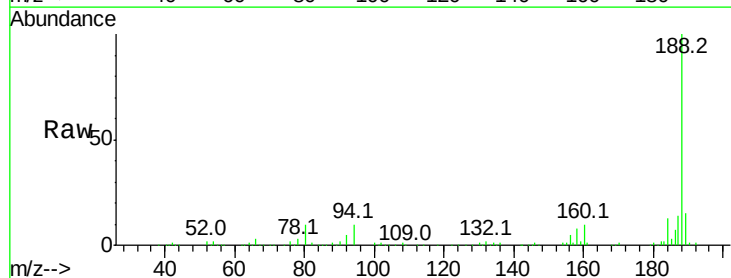


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

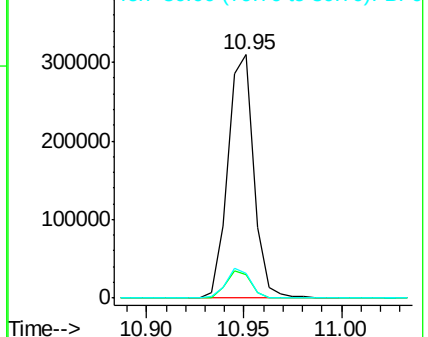
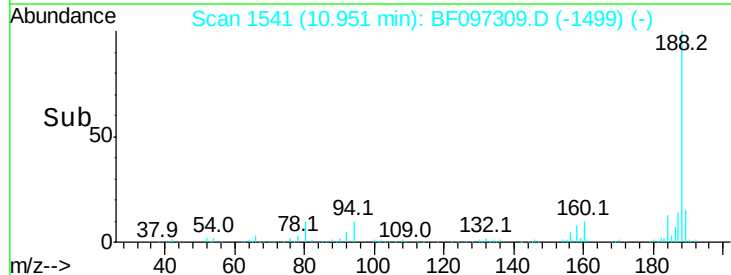


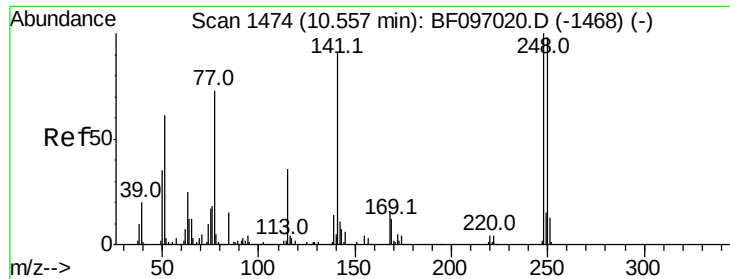
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 10.95 min Scan# 1541  
 Delta R.T. -0.05 min  
 Lab File: BF097309.D  
 Acq: 3 Aug 2017 9:40

Tgt Ion:188 Resp: 285916  
 Ion Ratio Lower Upper  
 188 100  
 94 9.9 9.4 14.2  
 80 10.2 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

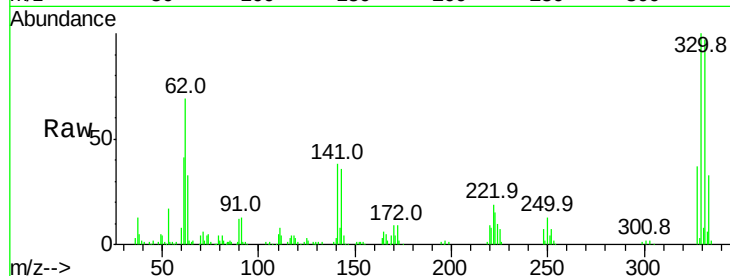




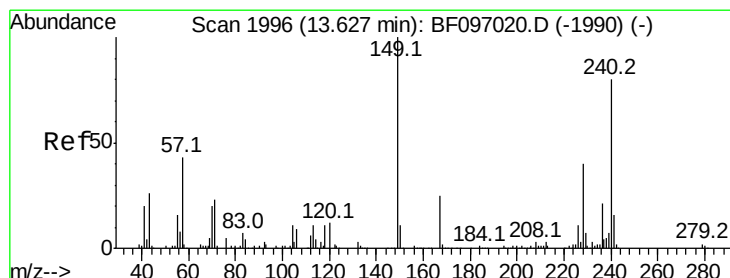
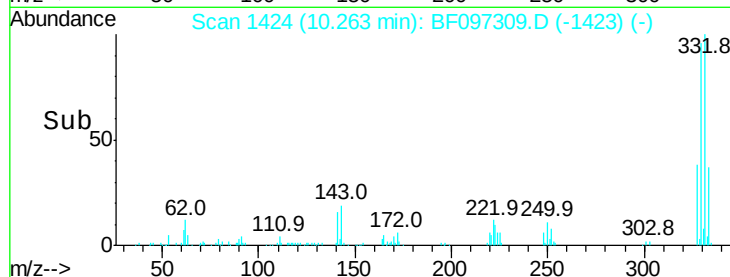
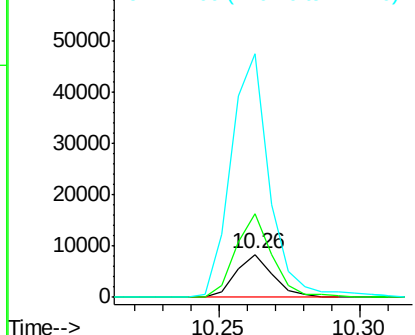
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.610 ng  
 RT: 10.26 min Scan# 1424  
 Delta R.T. -0.29 min  
 Lab File: BF097309.D  
 Acq: 3 Aug 2017 9:40

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 7447  
 Ion Ratio Lower Upper  
 248 100  
 250 195.0 76.8 115.2#  
 141 568.4 68.6 103.0#

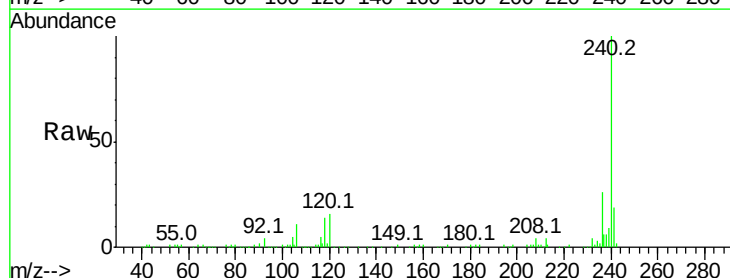


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

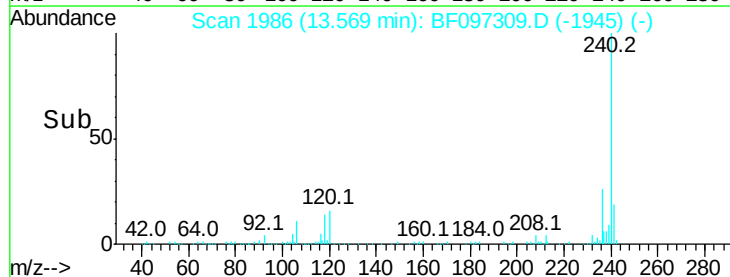
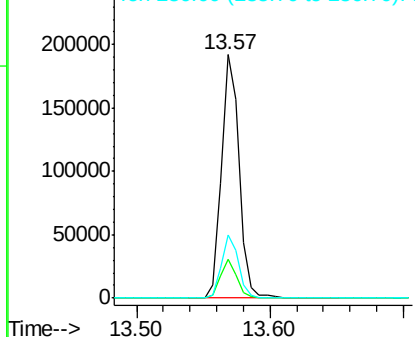


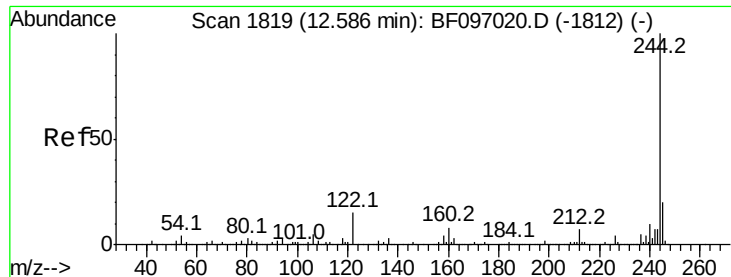
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.57 min Scan# 1986  
 Delta R.T. -0.06 min  
 Lab File: BF097309.D  
 Acq: 3 Aug 2017 9:40

Tgt Ion:240 Resp: 180974  
 Ion Ratio Lower Upper  
 240 100  
 120 15.7 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

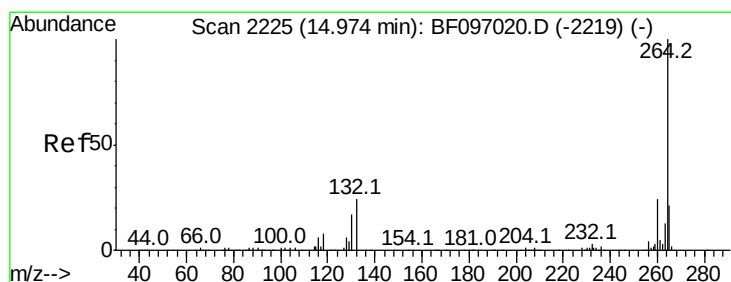
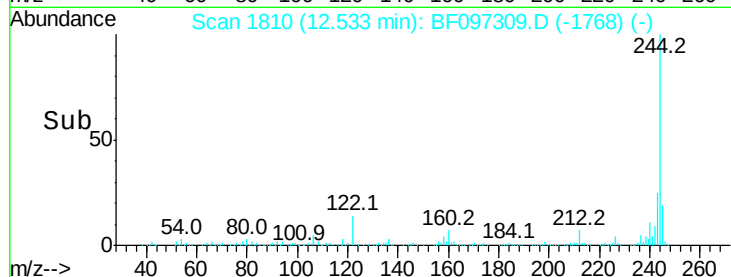
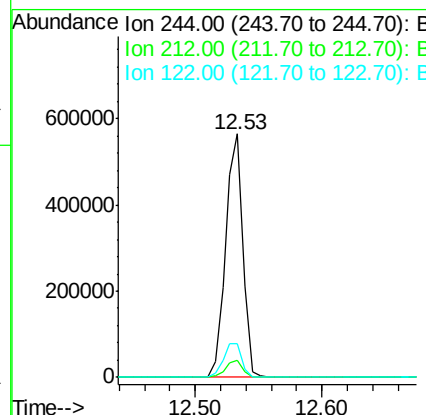
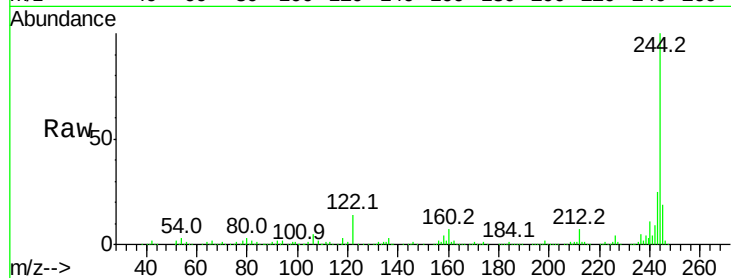




#78  
 Terphenyl-d14  
 Concen: 60.430 ng  
 RT: 12.53 min Scan# 1810  
 Delta R.T. -0.05 min  
 Lab File: BF097309.D  
 Acq: 3 Aug 2017 9:40

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 536395  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 6.0 9.0  
 122 13.8 10.3 15.5



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 14.92 min Scan# 2215  
 Delta R.T. -0.06 min  
 Lab File: BF097309.D  
 Acq: 3 Aug 2017 9:40

Tgt Ion:264 Resp: 156679  
 Ion Ratio Lower Upper  
 264 100  
 260 23.3 19.5 29.3  
 265 22.1 17.2 25.8

