

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092017\  
 Data File : BF098668.D  
 Acq On : 20 Sep 2017 19:00  
 Operator : SJ/JU  
 Sample : I5281-04 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 21 05:21:31 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 18 13:37:24 2017  
 Response via : Initial Calibration

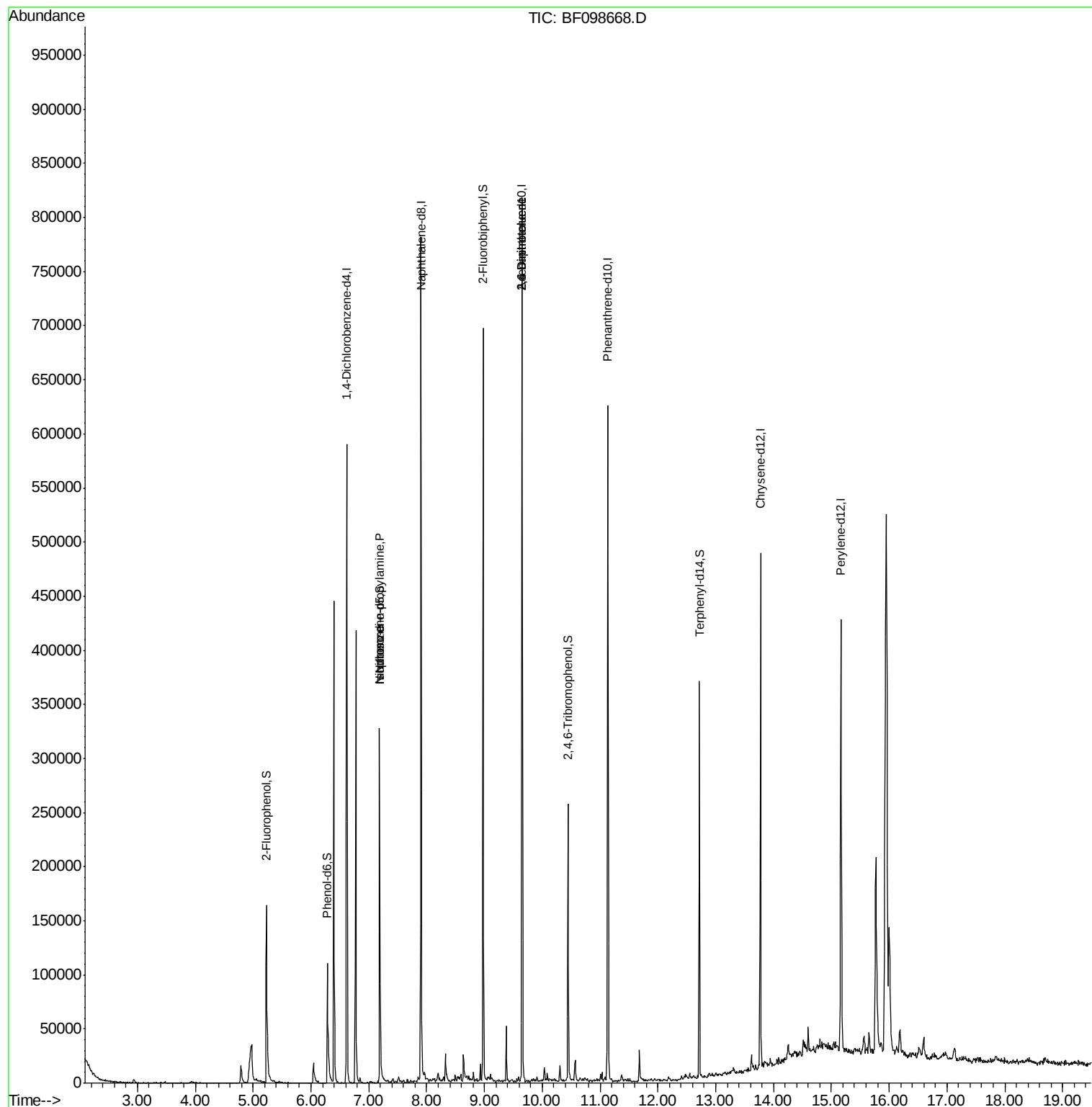
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.62  | 152  | 82195    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.90  | 136  | 338718   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.65  | 164  | 146263   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.13 | 188  | 217049   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12               | 13.77 | 240  | 158532   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12               | 15.17 | 264  | 166014   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.23  | 112  | 59668    | 10.73 | ng    | -0.01    |
| 7) Phenol-d6                   | 6.28  | 99   | 45842    | 6.49  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.19  | 82   | 107973   | 17.77 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.45 | 330  | 27511    | 28.18 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 8.97  | 172  | 205999   | 23.87 | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.72 | 244  | 99953    | 13.61 | ng    | -0.02    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.19  | 70   | 14974    | 3.37  | ng    | # 88     |
| 25) Isophorone                 | 7.19  | 82   | 107972   | 8.78  | ng    | # 67     |
| 50) 2,6-Dinitrotoluene         | 9.65  | 165  | 18704    | 8.04  | ng    | # 33     |
| 56) 2,4-Dinitrotoluene         | 9.65  | 165  | 18704    | 6.62  | ng    | # 33     |

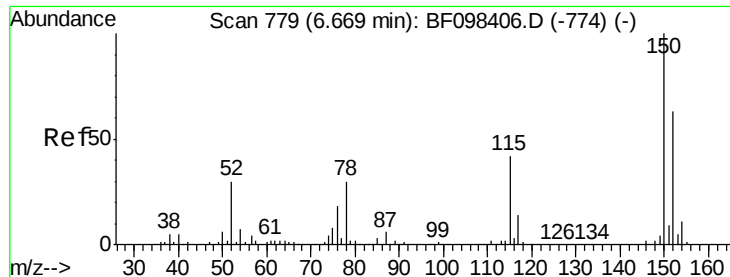
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 770

Delta R.T. -0.02 min

Lab File: BF098668.D

Acq: 20 Sep 2017 19:00

Instrument :

BNA\_F

ClientSampleId :

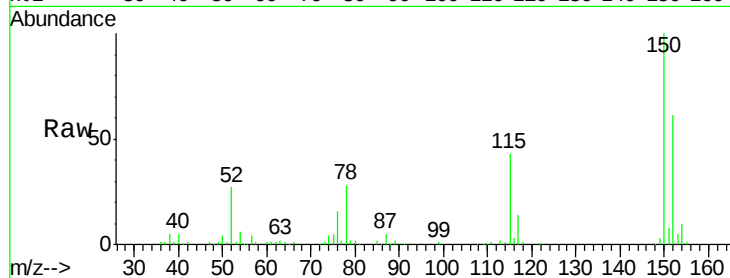
Tot Ion:152 Resp: 82195

Ion Ratio Lower Upper

152 100

150 163.5 126.2 189.2

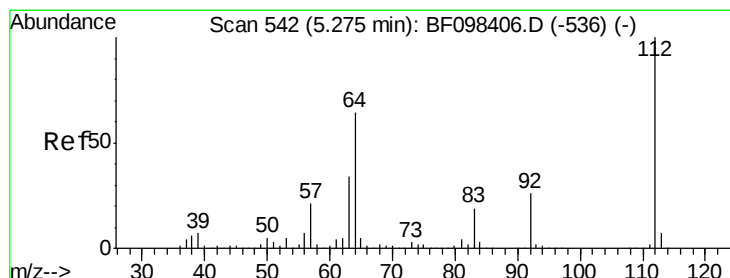
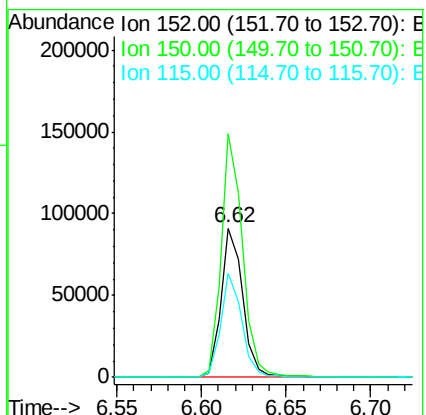
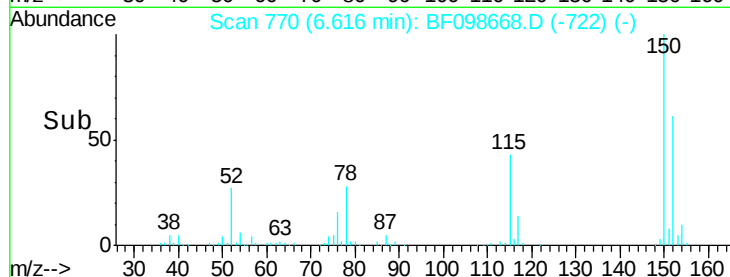
115 70.1 52.2 78.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 10.73 ng

RT: 5.23 min Scan# 534

Delta R.T. -0.01 min

Lab File: BF098668.D

Acq: 20 Sep 2017 19:00

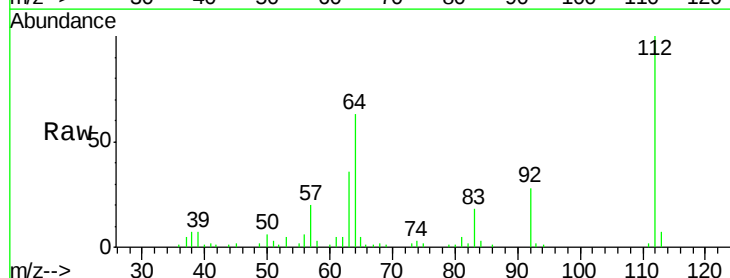
Tgt Ion:112 Resp: 59668

Ion Ratio Lower Upper

112 100

64 62.6 46.0 69.0

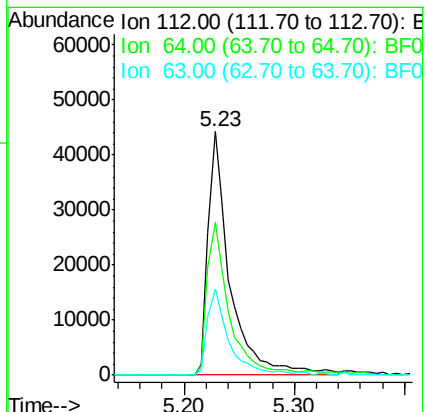
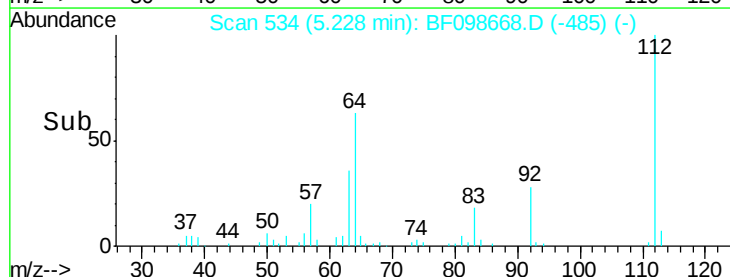
63 35.5 23.4 35.0#



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: 6.49 ng

RT: 6.28 min Scan# 713

Delta R.T. -0.01 min

Lab File: BF098668.D

Acq: 20 Sep 2017 19:00

Instrument :

BNA\_F

ClientSampled :

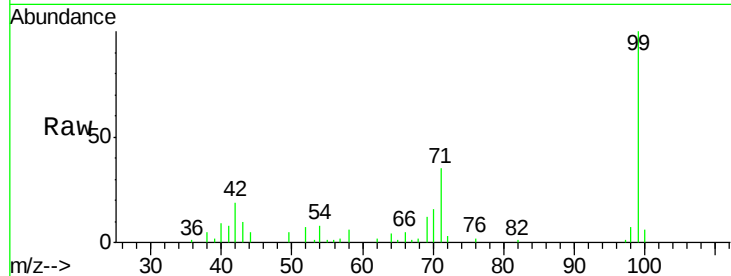
Tot Ion: 99 Resp: 45842

Ion Ratio Lower Upper

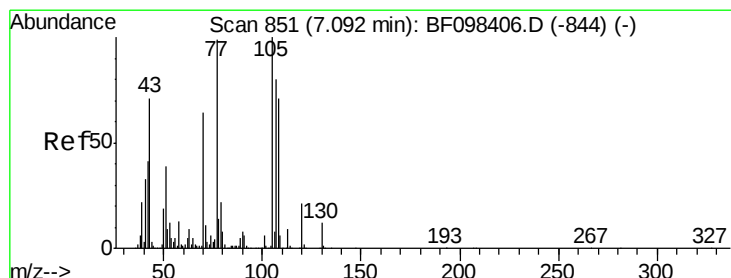
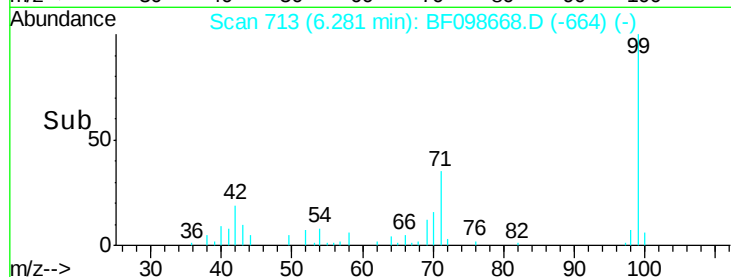
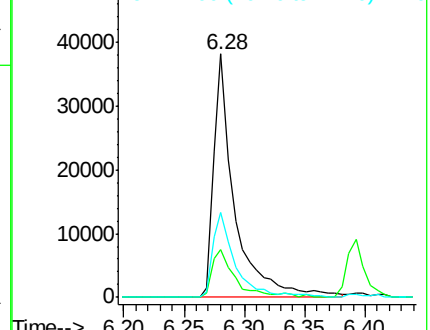
99 100

42 19.4 13.5 20.3

71 34.7 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: 3.37 ng

RT: 7.19 min Scan# 867

Delta R.T. 0.13 min

Lab File: BF098668.D

Acq: 20 Sep 2017 19:00

Tgt Ion: 70 Resp: 14974

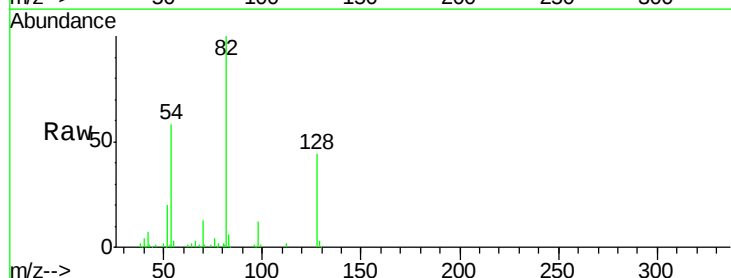
Ion Ratio Lower Upper

70 100

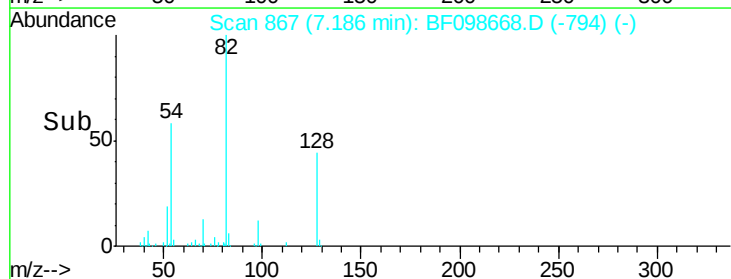
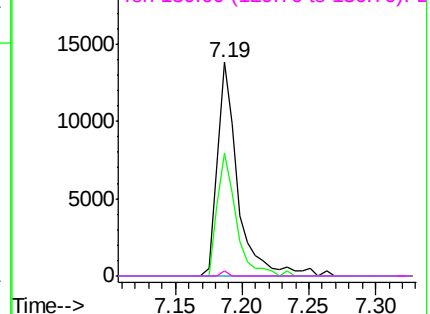
42 57.6 47.2 70.8

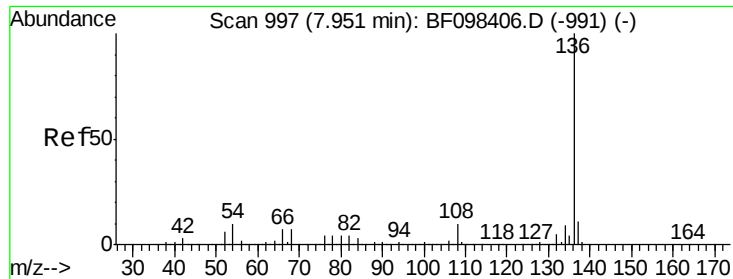
101 0.0 7.2 10.8#

130 2.5 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: 7.90 min Scan# 989

Delta R.T. -0.02 min

Lab File: BF098668.D

Acq: 20 Sep 2017 19:00

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 338718

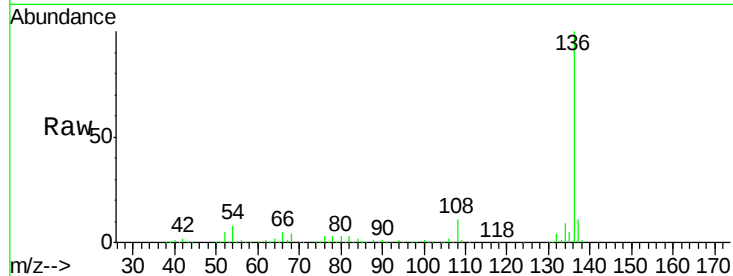
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 7.9 4.9 7.3#

68 4.4 4.1 6.1

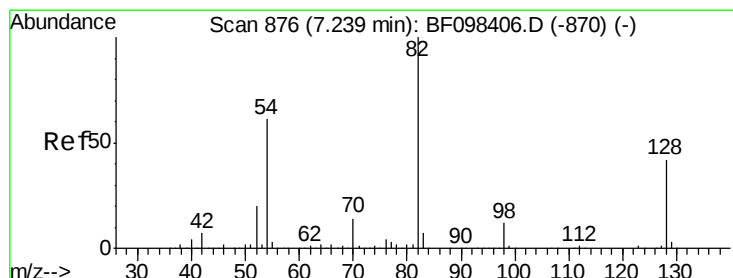
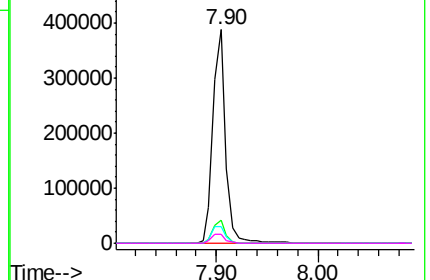
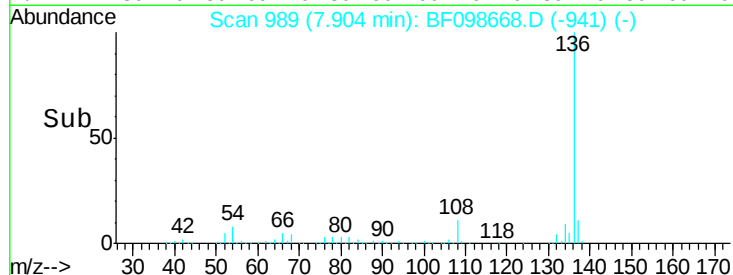


Abundance Ion 136.00 (135.70 to 136.70): E

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: 17.77 ng

RT: 7.19 min Scan# 867

Delta R.T. -0.02 min

Lab File: BF098668.D

Acq: 20 Sep 2017 19:00

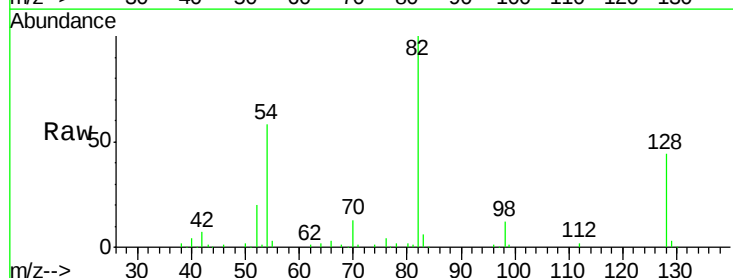
Tgt Ion: 82 Resp: 107973

Ion Ratio Lower Upper

82 100

128 43.6 34.0 51.0

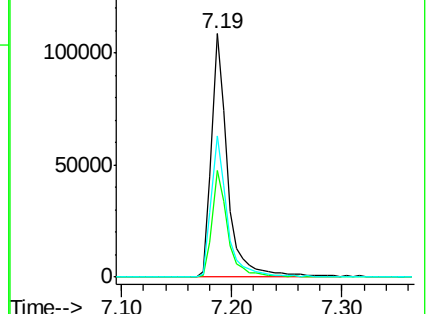
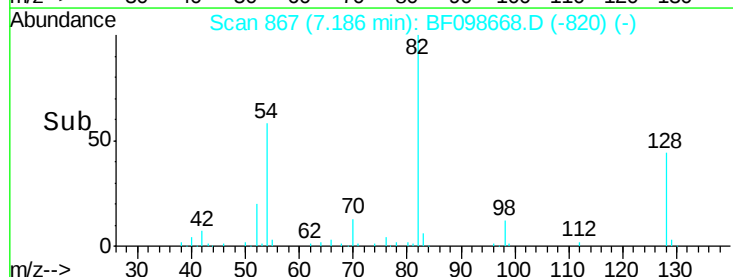
54 57.9 42.2 63.2

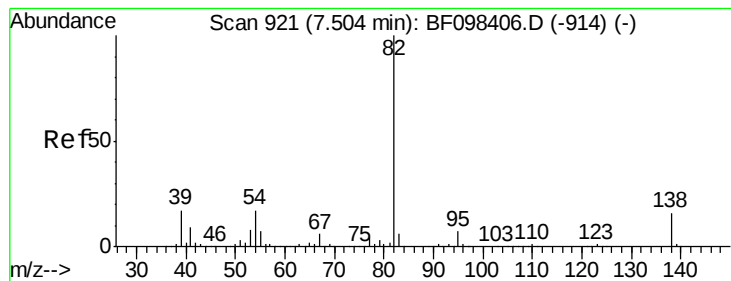


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 8.78 ng

RT: 7.19 min Scan# 867

Delta R.T. -0.28 min

Lab File: BF098668.D

Acq: 20 Sep 2017 19:00

Instrument :

BNA\_F

ClientSampled :

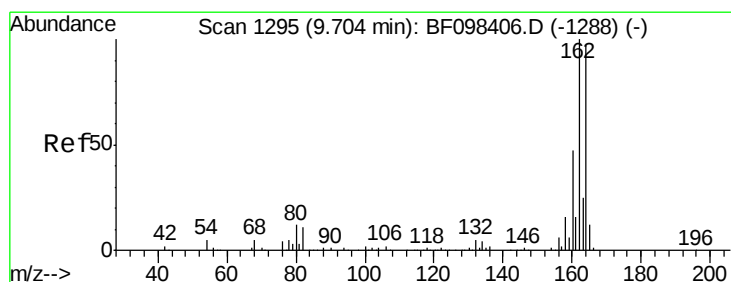
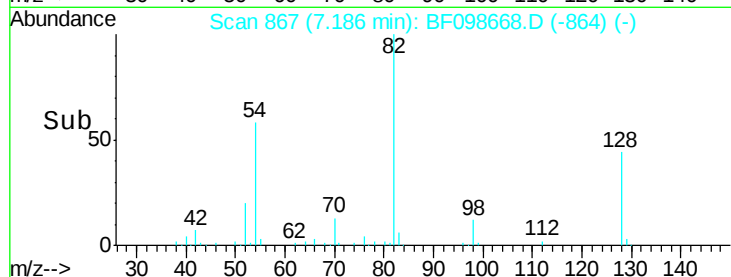
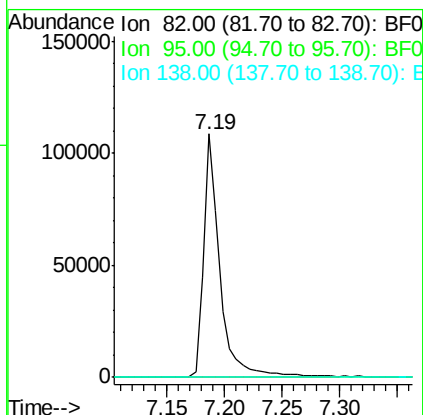
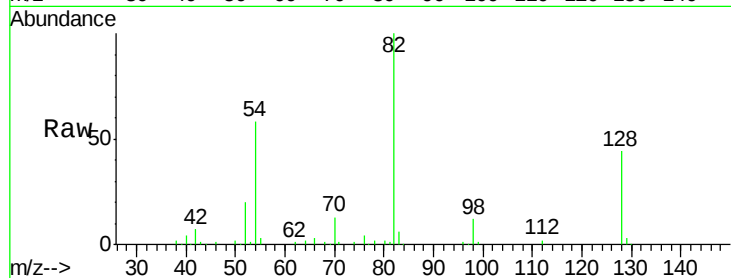
Tot Ion: 82 Resp: 107972

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: 9.65 min Scan# 1286

Delta R.T. -0.02 min

Lab File: BF098668.D

Acq: 20 Sep 2017 19:00

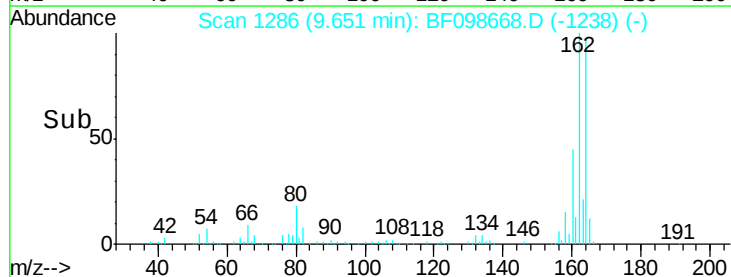
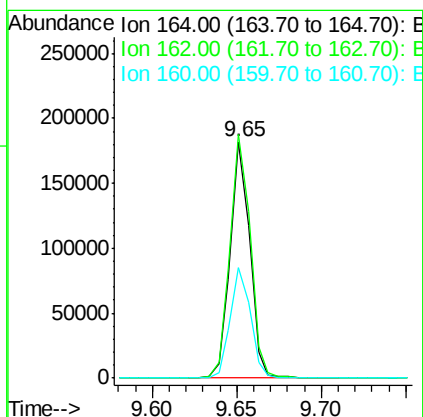
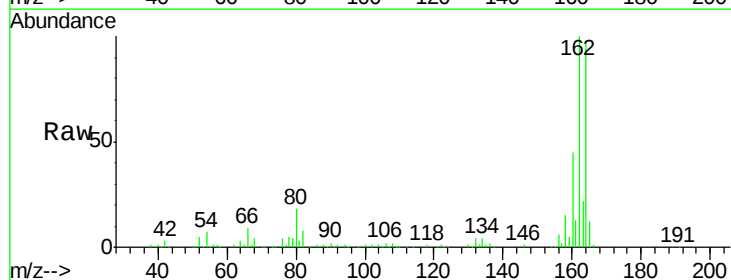
Tgt Ion: 164 Resp: 146263

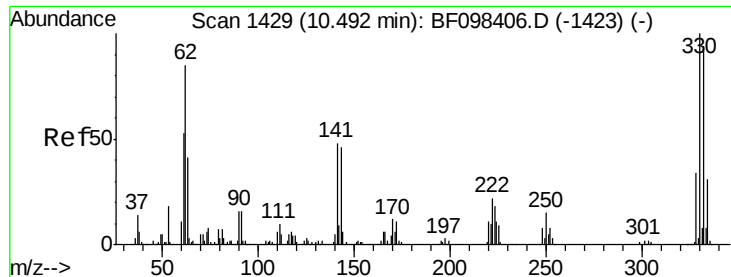
Ion Ratio Lower Upper

164 100

162 103.0 82.6 123.8

160 46.8 36.2 54.2

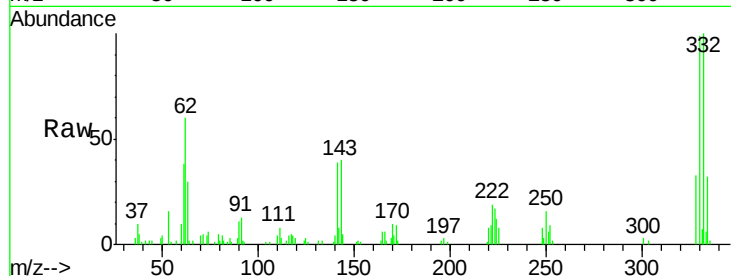




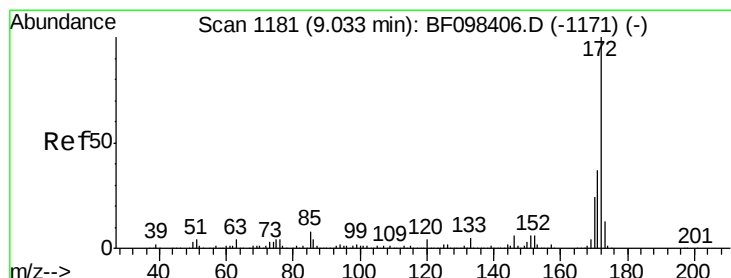
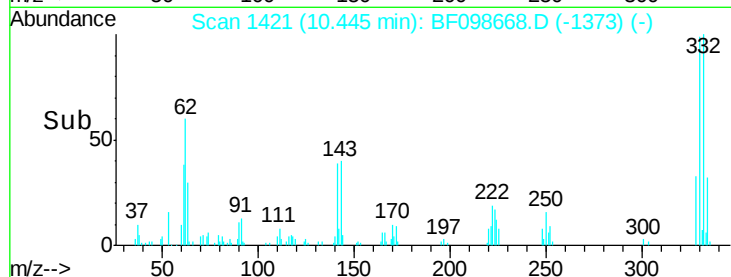
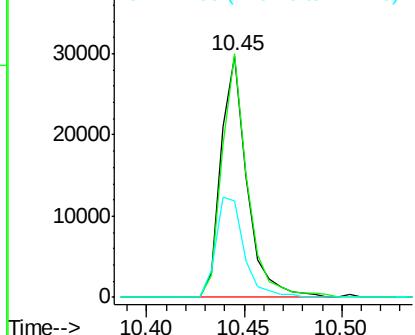
#41  
 2,4,6-Tribromophenol  
 Concen: 28.18 ng  
 RT: 10.45 min Scan# 1421  
 Delta R.T. -0.02 min  
 Lab File: BF098668.D  
 Acq: 20 Sep 2017 19:00

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 27511  
 Ion Ratio Lower Upper  
 330 100  
 332 99.0 76.6 115.0  
 141 44.7 31.4 47.2

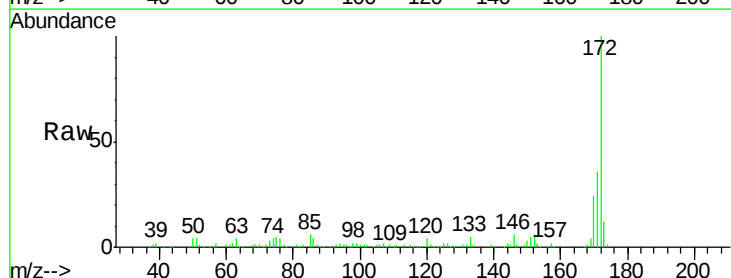


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

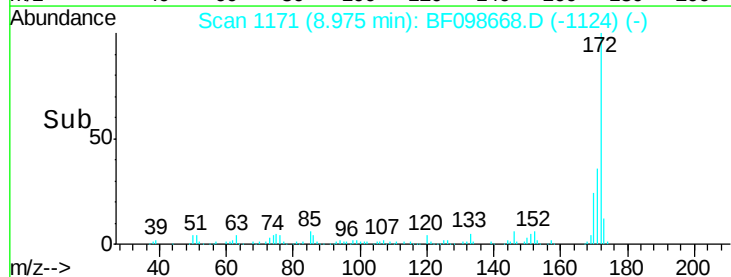
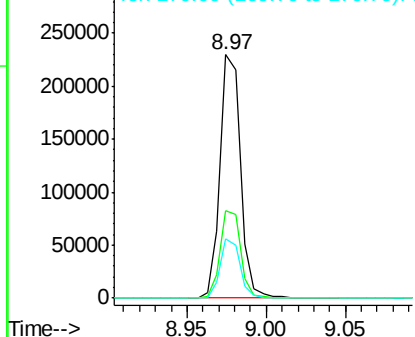


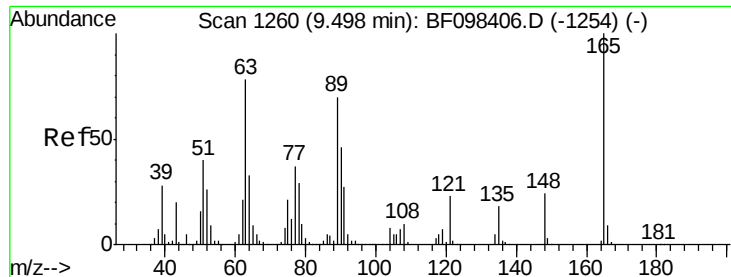
#44  
 2-Fluorobiphenyl  
 Concen: 23.87 ng  
 RT: 8.97 min Scan# 1171  
 Delta R.T. -0.02 min  
 Lab File: BF098668.D  
 Acq: 20 Sep 2017 19:00

Tgt Ion:172 Resp: 205999  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.6 44.4  
 170 24.3 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

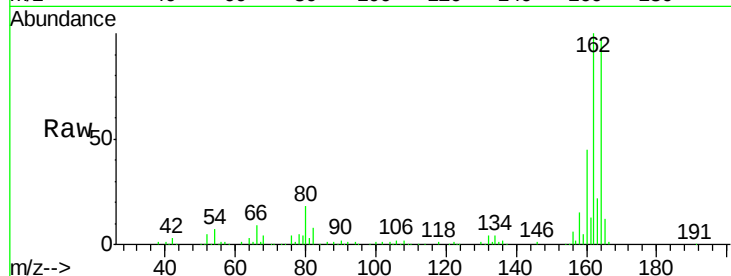




#50  
 2,6-Dinitrotoluene  
 Concen: 8.04 ng  
 RT: 9.65 min Scan# 1286  
 Delta R.T. 0.18 min  
 Lab File: BF098668.D  
 Acq: 20 Sep 2017 19:00

Instrument :  
 BNA\_F  
 ClientSampleId :

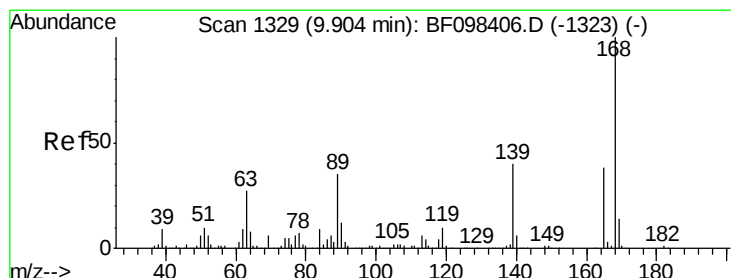
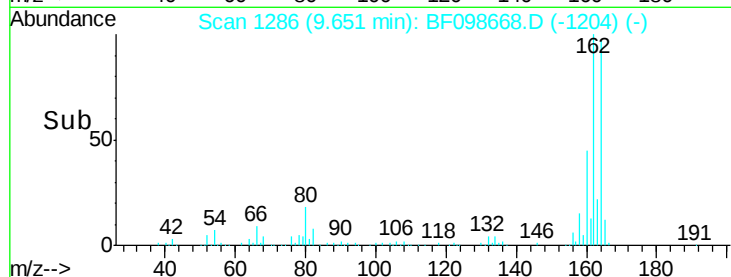
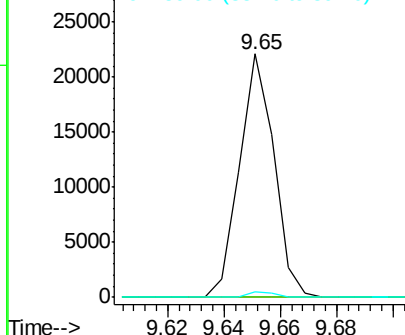
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 34.3  | 51.5# |
| 89      | 2.3   | 37.1  | 55.7# |



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: 6.62 ng  
 RT: 9.65 min Scan# 1286  
 Delta R.T. -0.23 min  
 Lab File: BF098668.D  
 Acq: 20 Sep 2017 19:00

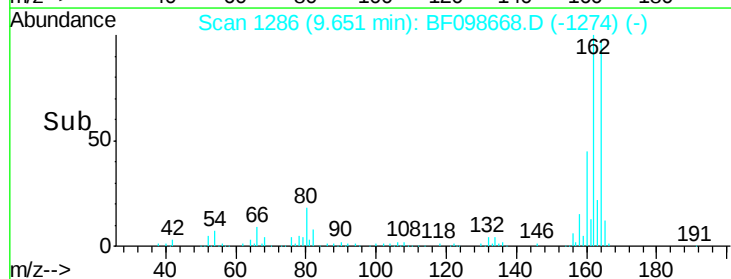
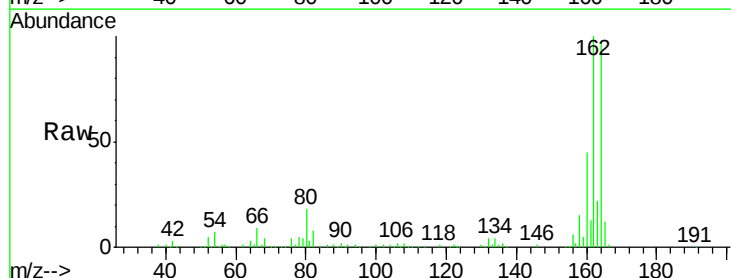
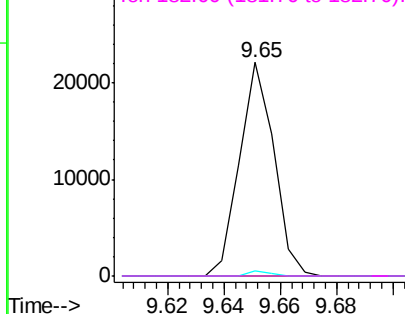
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 25.4  | 38.0# |
| 89      | 2.3   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

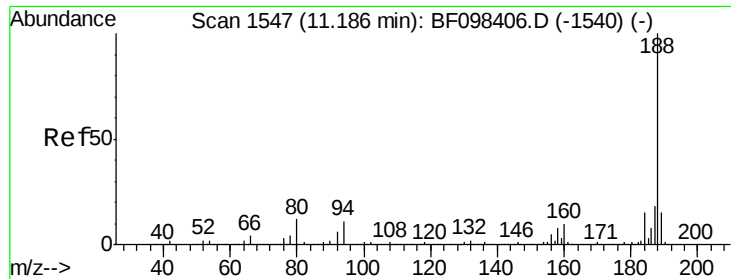
Abundance Ion 165.00 (164.70 to 165.70): E

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

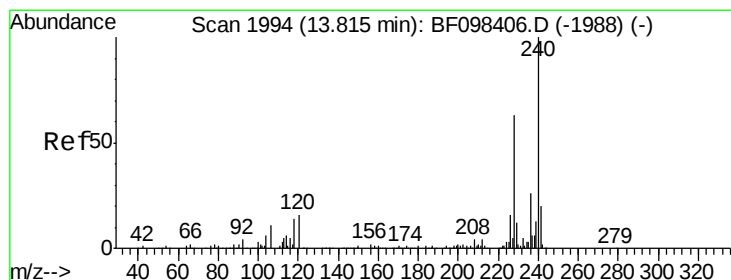
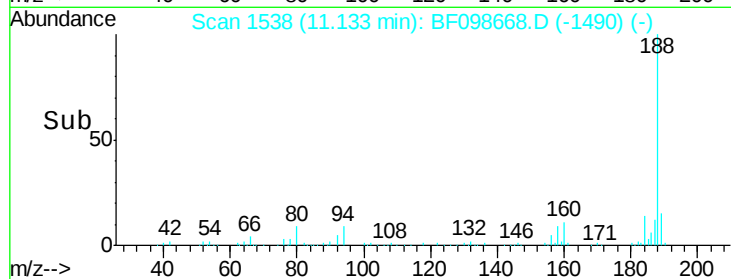
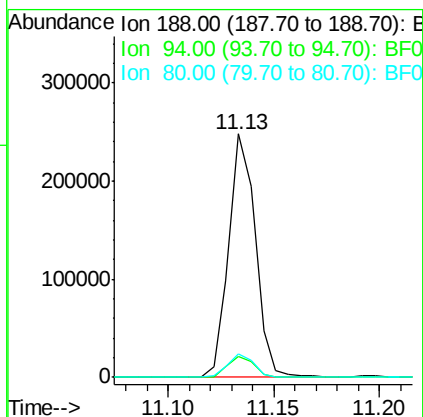
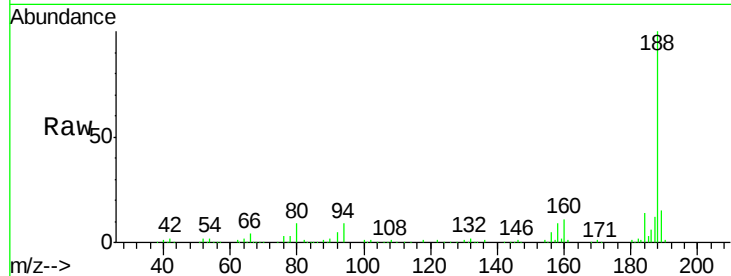




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.13 min Scan# 1538  
Delta R.T. -0.02 min  
Lab File: BF098668.D  
Acq: 20 Sep 2017 19:00

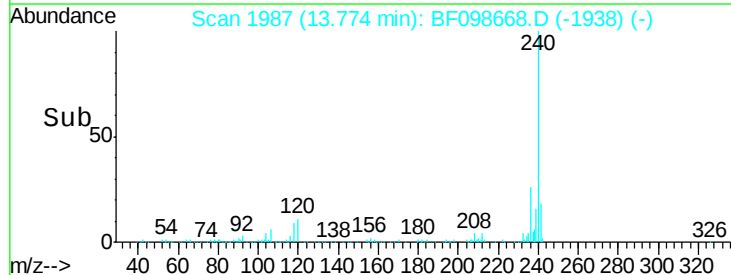
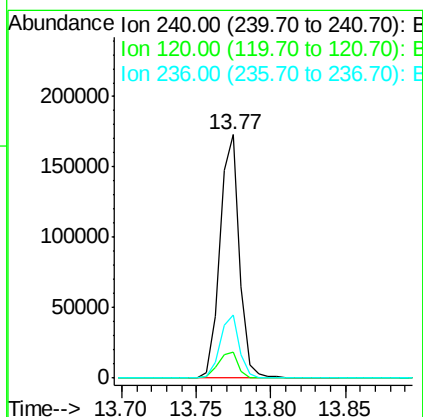
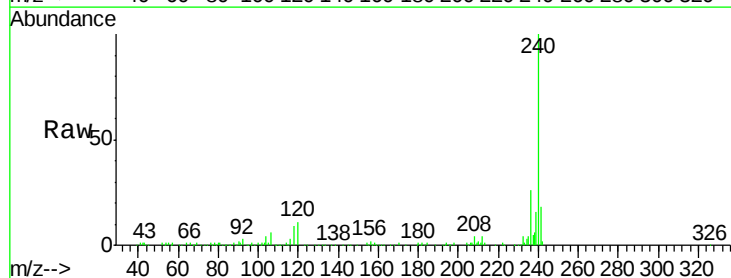
Instrument :  
BNA\_F  
ClientSampleId :

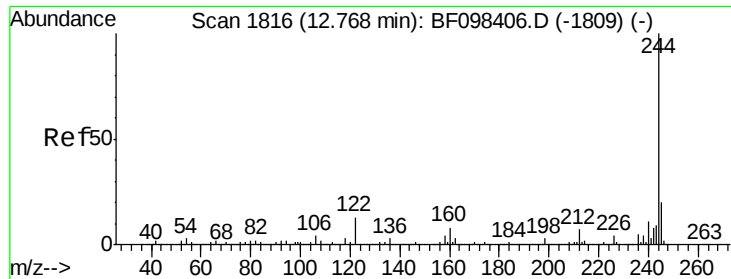
Tot Ion:188 Resp: 217049  
Ion Ratio Lower Upper  
188 100  
94 8.5 9.4 14.2#  
80 9.4 10.2 15.2#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.77 min Scan# 1987  
Delta R.T. -0.01 min  
Lab File: BF098668.D  
Acq: 20 Sep 2017 19:00

Tgt Ion:240 Resp: 158532  
Ion Ratio Lower Upper  
240 100  
120 10.5 5.8 8.8#  
236 26.1 20.5 30.7





#78

Terphenyl-d14

Concen: 13.61 ng

RT: 12.72 min Scan# 1807

Delta R.T. -0.02 min

Lab File: BF098668.D

Acq: 20 Sep 2017 19:00

Instrument :

BNA\_F

ClientSampleId :

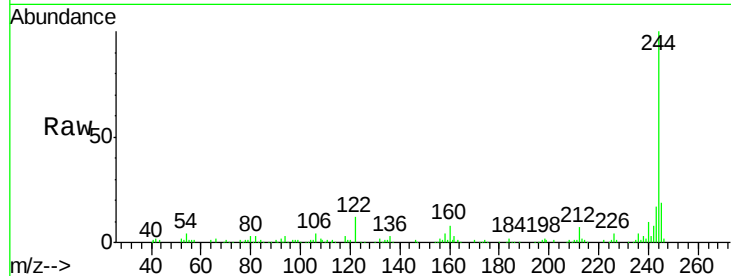
Tot Ion:244 Resp: 99953

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

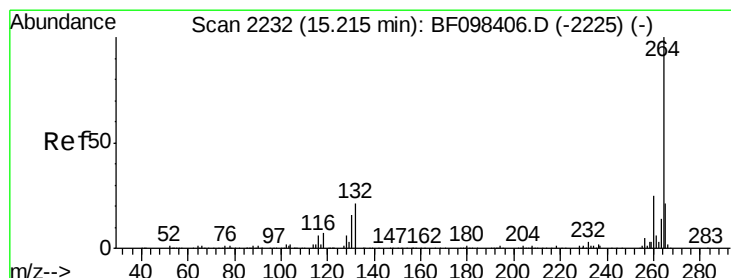
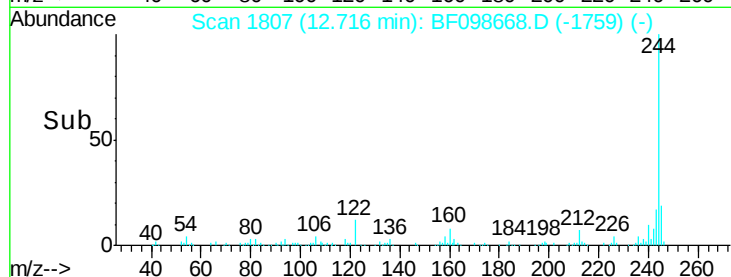
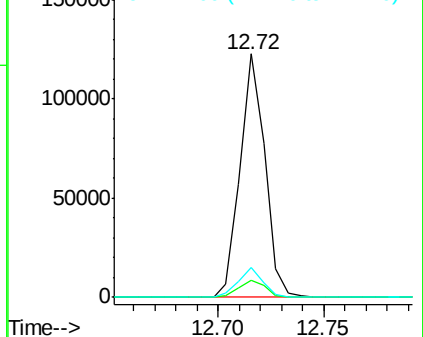
122 12.4 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.17 min Scan# 2224

Delta R.T. -0.01 min

Lab File: BF098668.D

Acq: 20 Sep 2017 19:00

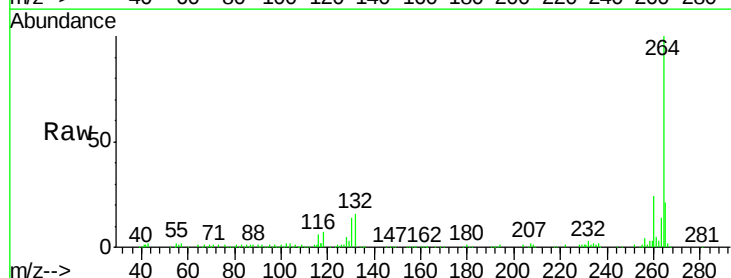
Tgt Ion:264 Resp: 166014

Ion Ratio Lower Upper

264 100

260 24.0 19.5 29.3

265 20.9 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

