

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032717\  
 Data File : BF093966.D  
 Acq On : 28 Mar 2017 2:26  
 Operator : SJ/MA  
 Sample : I2384-03  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-B42-B51-001

Quant Time: Mar 28 04:45:12 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 27 16:10:49 2017  
 Response via : Initial Calibration

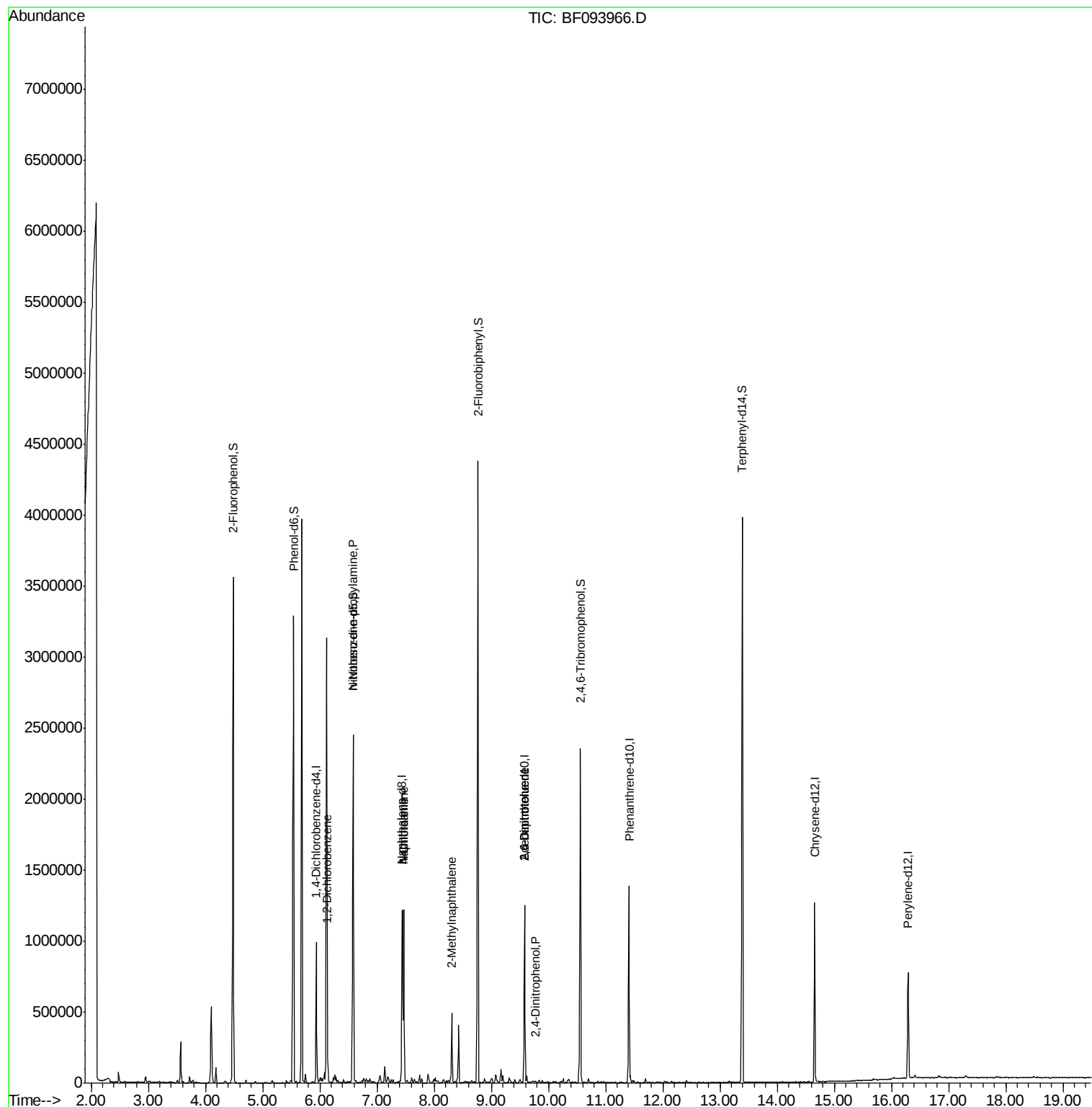
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 5.94  | 152  | 160073   | 20.00  | ng    | -0.01     |
| 21) Naphthalene-d8             | 7.44  | 136  | 638139   | 20.00  | ng    | -0.02     |
| 38) Acenaphthene-d10           | 9.58  | 164  | 296142   | 20.00  | ng    | -0.02     |
| 63) Phenanthrene-d10           | 11.41 | 188  | 557889   | 20.00  | ng    | -0.01     |
| 75) Chrysene-d12               | 14.66 | 240  | 473183   | 20.00  | ng    | -0.02     |
| 86) Perylene-d12               | 16.29 | 264  | 294817   | 20.00  | ng    | -0.02     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 4.49  | 112  | 1200450  | 126.67 | ng    | 0.01      |
| 7) Phenol-d6                   | 5.54  | 99   | 1473530  | 125.68 | ng    | -0.01     |
| 23) Nitrobenzene-d5            | 6.59  | 82   | 982637   | 87.88  | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol       | 10.56 | 330  | 369343   | 157.83 | ng    | -0.01     |
| 44) 2-Fluorobiphenyl           | 8.77  | 172  | 1778568  | 91.60  | ng    | -0.01     |
| 78) Terphenyl-d14              | 13.39 | 244  | 1668236  | 79.03  | ng    | -0.01     |
| Target Compounds               |       |      |          |        |       |           |
| 14) 1,2-Dichlorobenzene        | 6.13  | 146  | 71071    | 6.52   | ng    | Qvalue 94 |
| 19) n-Nitroso-di-n-propylamine | 6.59  | 70   | 131109   | 17.40  | ng    | # 77      |
| 31) Naphthalene                | 7.47  | 128  | 656562   | 21.40  | ng    | 99        |
| 33) 4-Chloroaniline            | 7.47  | 127  | 85826    | 6.90   | ng    | # 34      |
| 37) 2-Methylnaphthalene        | 8.31  | 142  | 148973   | 7.28   | ng    | 96        |
| 50) 2,6-Dinitrotoluene         | 9.58  | 165  | 38126    | 7.90   | ng    | # 34      |
| 53) 2,4-Dinitrophenol          | 9.78  | 184  | 420      | 4.82   | ng    | # 54      |
| 56) 2,4-Dinitrotoluene         | 9.58  | 165  | 38127    | 6.29   | ng    | # 33      |

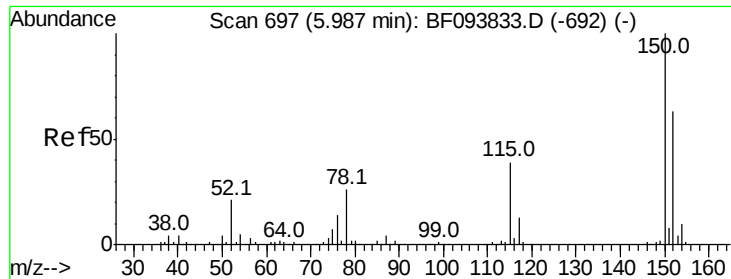
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.94 min Scan# 689

Delta R.T. -0.01 min

Lab File: BF093966.D

Acq: 28 Mar 2017 2:26

Instrument :

BNA\_F

ClientSampleId :

WC-B42-B51-001

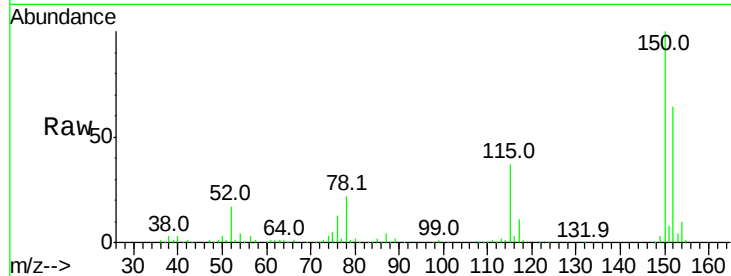
Tot Ion:152 Resp: 160073

Ion Ratio Lower Upper

152 100

150 157.3 126.2 189.2

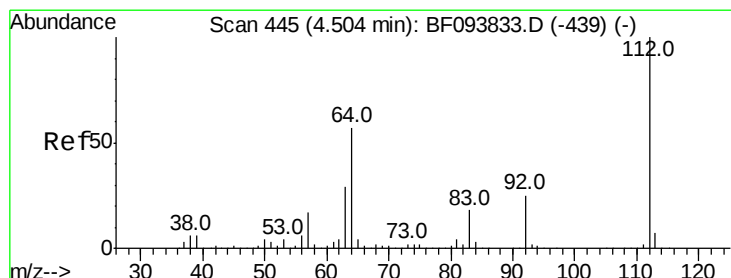
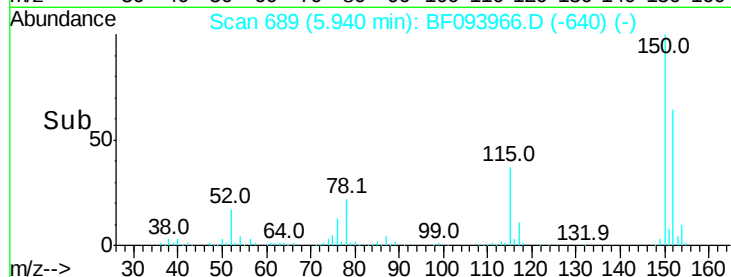
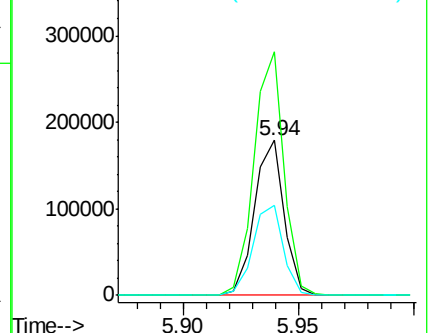
115 58.1 52.2 78.2



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: 126.67 ng

RT: 4.49 min Scan# 442

Delta R.T. 0.01 min

Lab File: BF093966.D

Acq: 28 Mar 2017 2:26

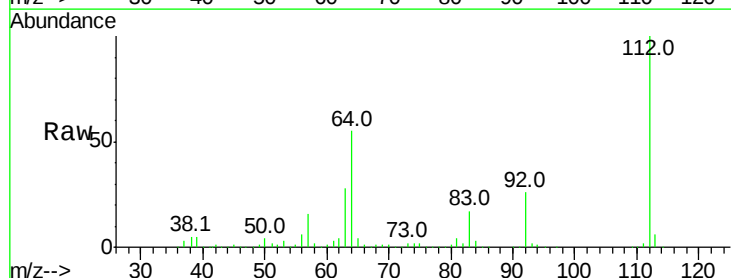
Tgt Ion:112 Resp: 1200450

Ion Ratio Lower Upper

112 100

64 55.0 46.0 69.0

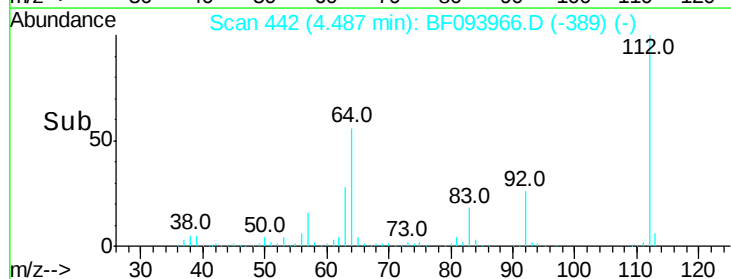
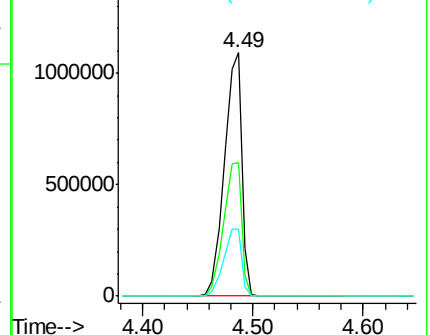
63 27.6 23.4 35.0

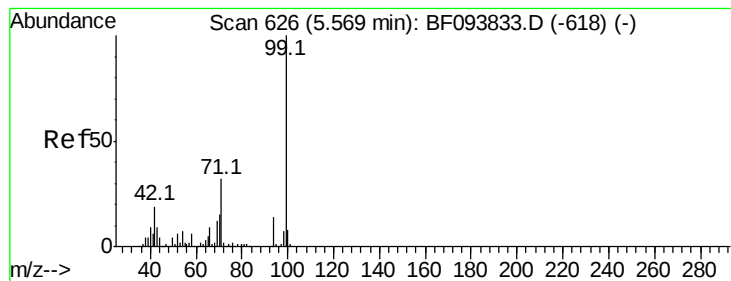


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 125.68 ng

RT: 5.54 min Scan# 621

Delta R.T. -0.01 min

Lab File: BF093966.D

Acq: 28 Mar 2017 2:26

Instrument :

BNA\_F

ClientSampleId :

WC-B42-B51-001

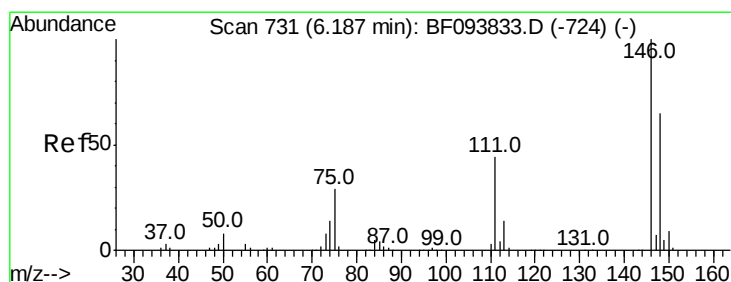
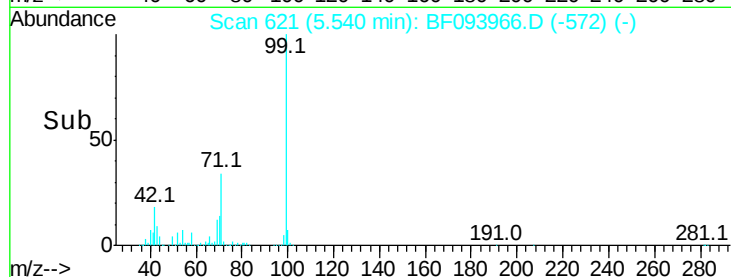
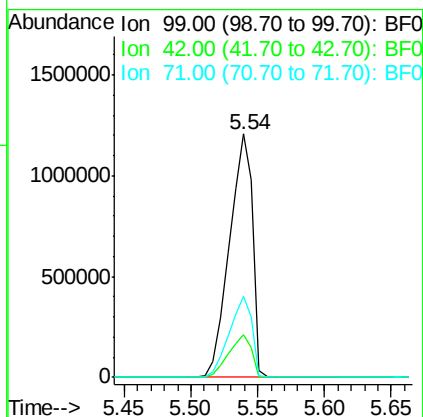
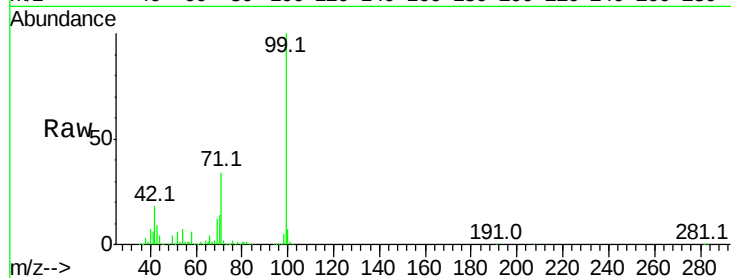
Tot Ion: 99 Resp: 1473530

Ion Ratio Lower Upper

99 100

42 17.8 13.5 20.3

71 33.5 24.5 36.7



#14

1,2-Dichlorobenzene

Concen: 6.52 ng

RT: 6.13 min Scan# 722

Delta R.T. -0.02 min

Lab File: BF093966.D

Acq: 28 Mar 2017 2:26

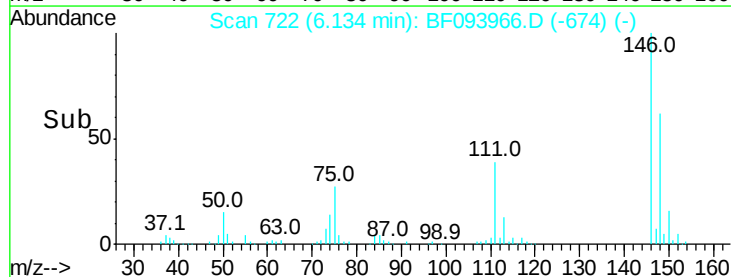
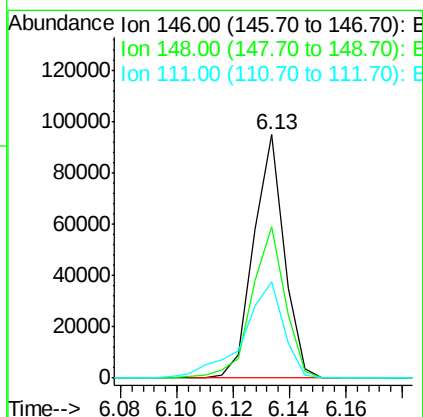
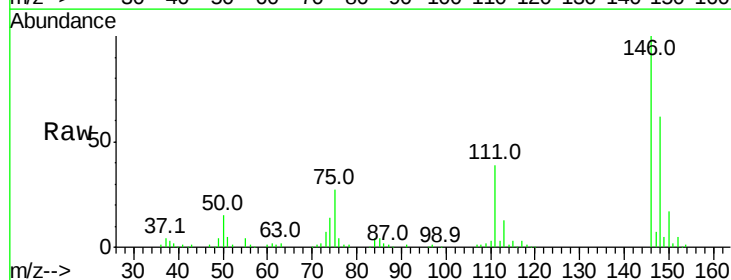
Tgt Ion: 146 Resp: 71071

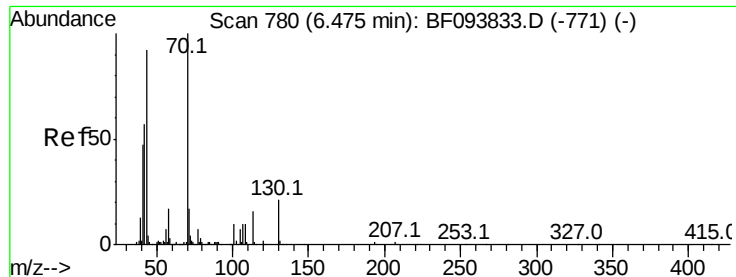
Ion Ratio Lower Upper

146 100

148 62.4 50.4 75.6

111 39.4 38.2 57.4





#19

n-Nitroso-di-n-propylamine

Concen: 17.40 ng

RT: 6.59 min Scan# 799

Delta R.T. 0.15 min

Lab File: BF093966.D

Acq: 28 Mar 2017 2:26

Instrument :

BNA\_F

ClientSampleId :

WC-B42-B51-001

Tot Ion: 70 Resp: 131109

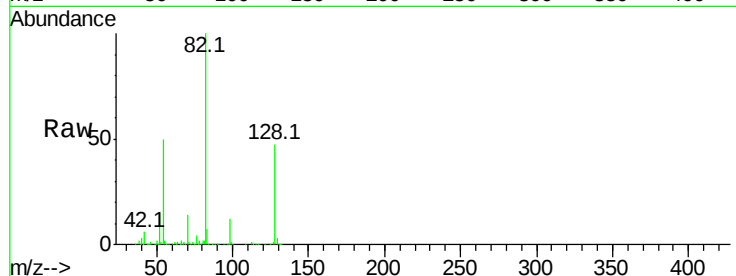
Ion Ratio Lower Upper

70 100

42 46.0 47.2 70.8#

101 0.0 7.2 10.8#

130 1.9 15.9 23.9#

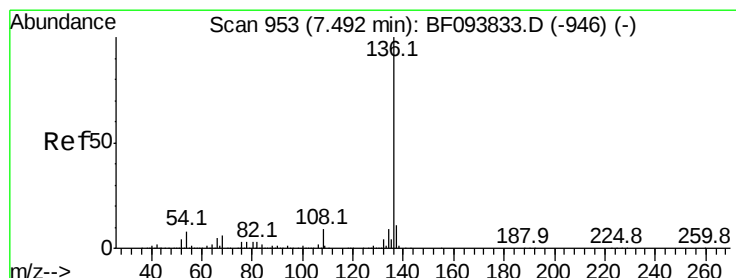
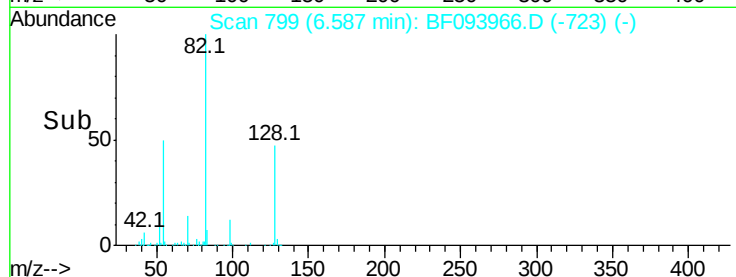
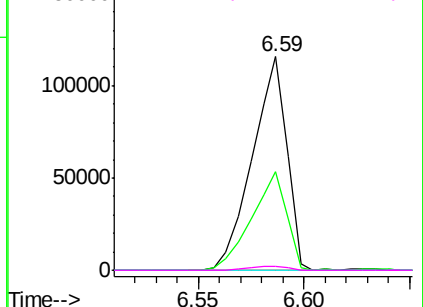


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.44 min Scan# 944

Delta R.T. -0.02 min

Lab File: BF093966.D

Acq: 28 Mar 2017 2:26

Tgt Ion: 136 Resp: 638139

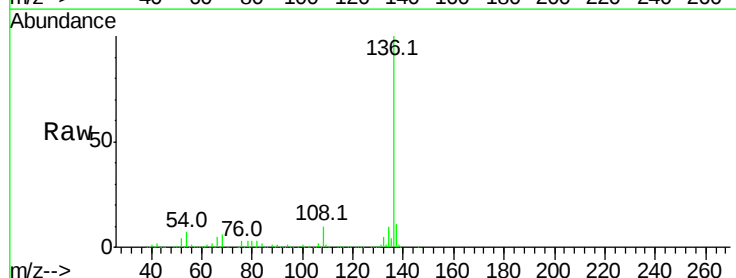
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 7.5 4.9 7.3#

68 5.8 4.1 6.1

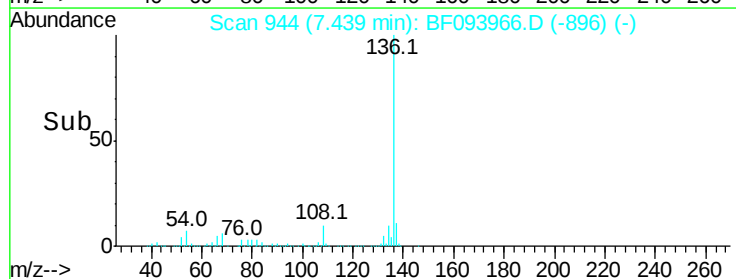
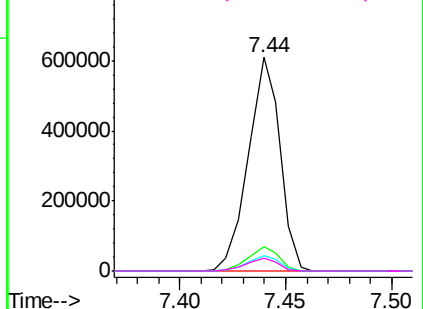


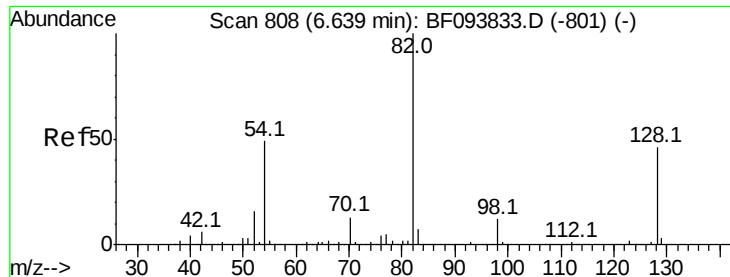
Abundance Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

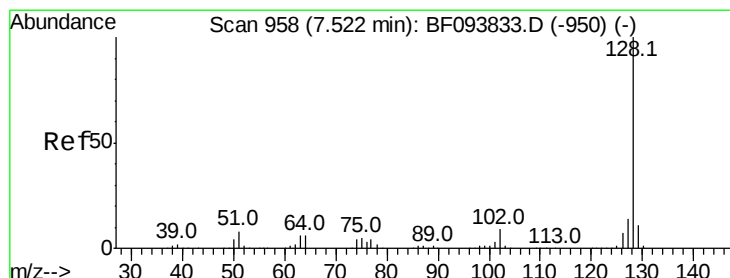
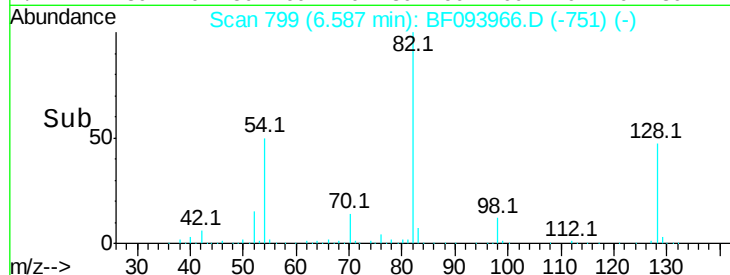
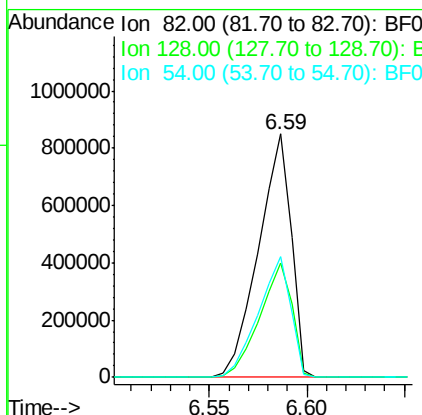
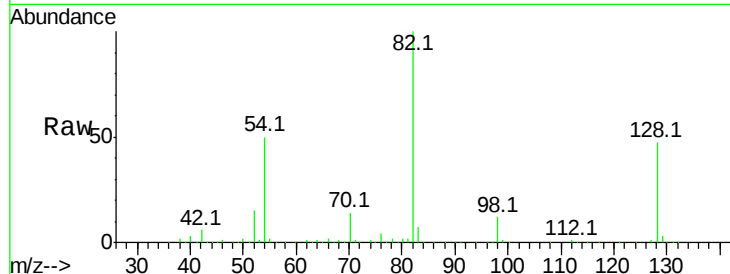




#23  
 Nitrobenzene-d5  
 Concen: 87.88 ng  
 RT: 6.59 min Scan# 799  
 Delta R.T. -0.02 min  
 Lab File: BF093966.D  
 Acq: 28 Mar 2017 2:26

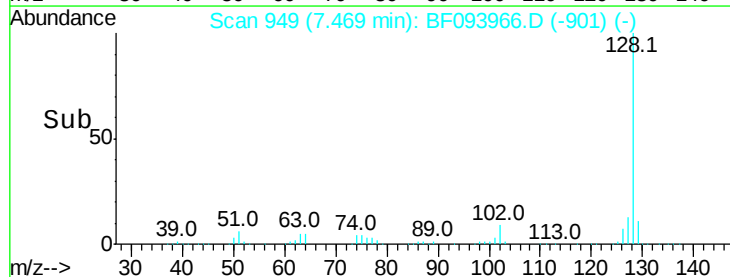
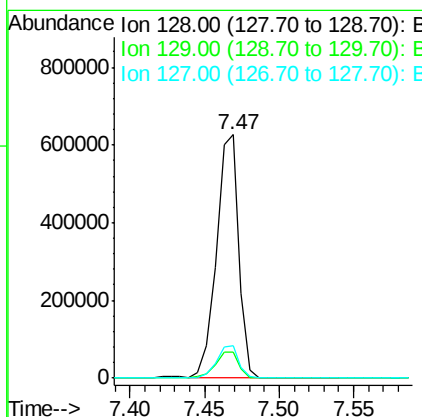
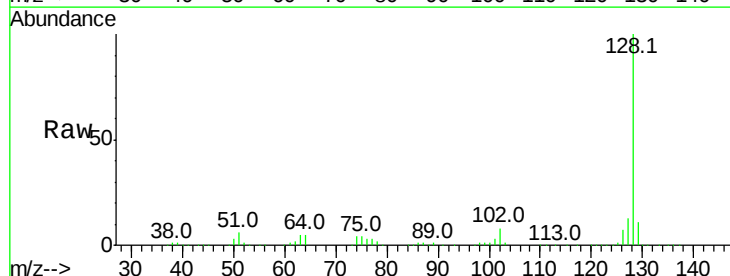
Instrument :  
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 WC-B42-B51-001

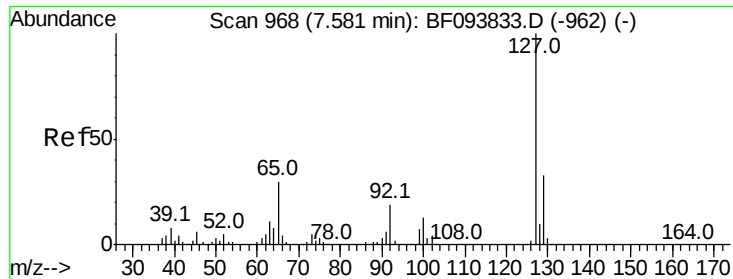
| Tot Ion   | 82   | Resp  | 982637 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 46.9 | 34.0  | 51.0   |
| 54        | 49.8 | 42.2  | 63.2   |



#31  
 Naphthalene  
 Concen: 21.40 ng  
 RT: 7.47 min Scan# 949  
 Delta R.T. -0.02 min  
 Lab File: BF093966.D  
 Acq: 28 Mar 2017 2:26

| Tgt Ion   | 128  | Resp  | 656562 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 129       | 10.7 | 9.0   | 13.6   |
| 127       | 13.2 | 10.8  | 16.2   |

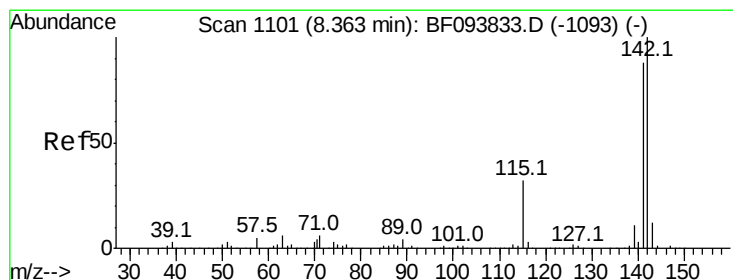
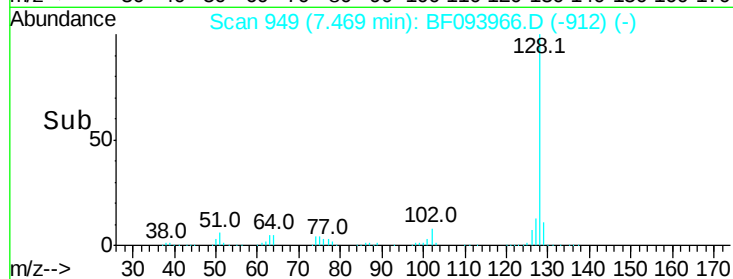
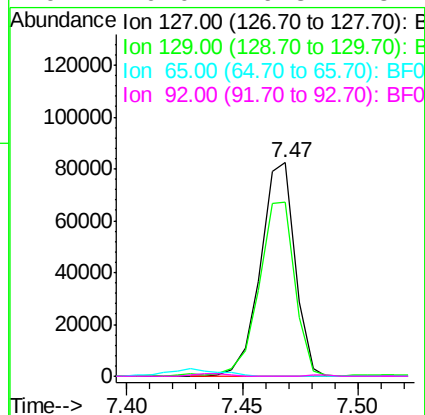
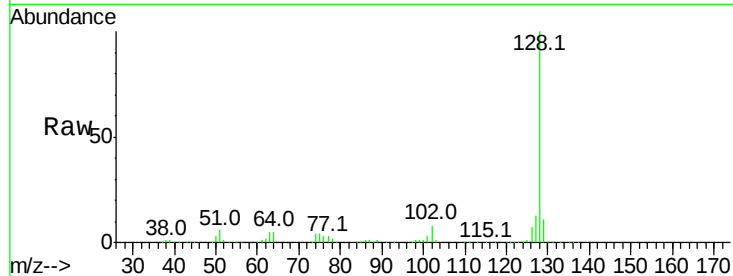




#33  
4-Chloroaniline  
Concen: 6.90 ng  
RT: 7.47 min Scan# 949  
Delta R.T. -0.08 min  
Lab File: BF093966.D  
Acq: 28 Mar 2017 2:26

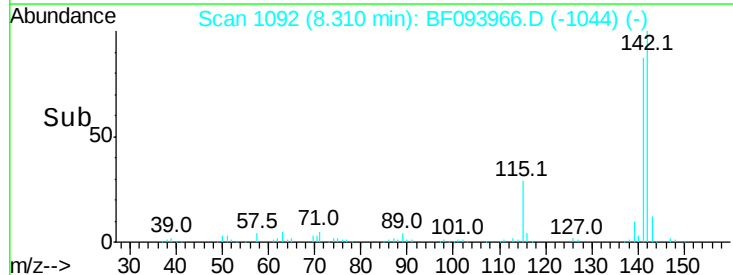
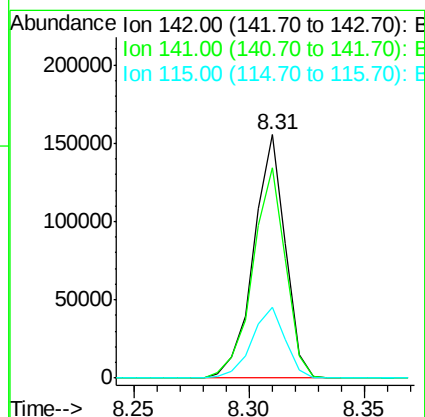
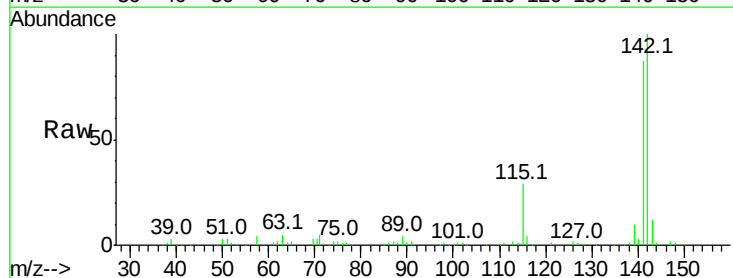
Instrument :  
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WC-B42-B51-001

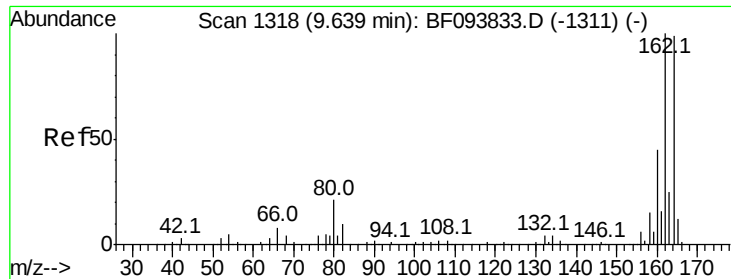
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 127   | Resp: | 85826 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 81.5  | 26.2  | 39.2# |
| 65       | 0.0   | 27.8  | 41.8# |
| 92       | 0.0   | 16.8  | 25.2# |



#37  
2-Methylnaphthalene  
Concen: 7.28 ng  
RT: 8.31 min Scan# 1092  
Delta R.T. -0.02 min  
Lab File: BF093966.D  
Acq: 28 Mar 2017 2:26

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 142   | Resp: | 148973 |
| Ion      | Ratio | Lower | Upper  |
| 142      | 100   |       |        |
| 141      | 86.5  | 71.3  | 106.9  |
| 115      | 29.2  | 27.1  | 40.7   |

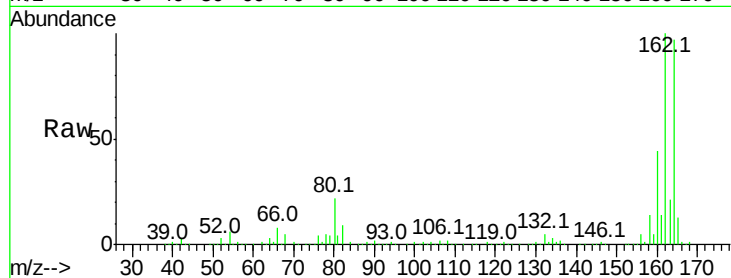




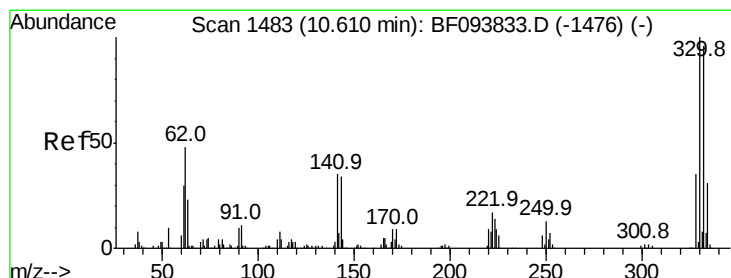
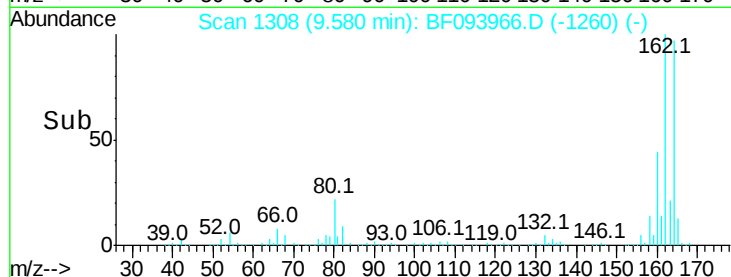
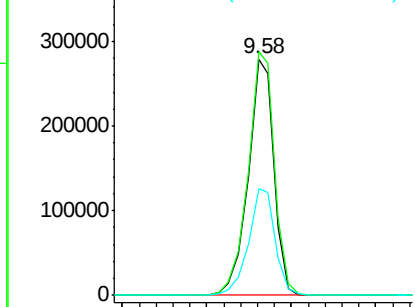
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.58 min Scan# 1308  
 Delta R.T. -0.02 min  
 Lab File: BF093966.D  
 Acq: 28 Mar 2017 2:26

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-B42-B51-001

Tot Ion:164 Resp: 296142  
 Ion Ratio Lower Upper  
 164 100  
 162 103.0 82.6 123.8  
 160 45.0 36.2 54.2

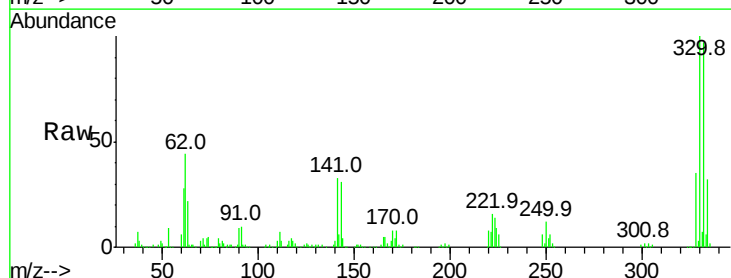


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

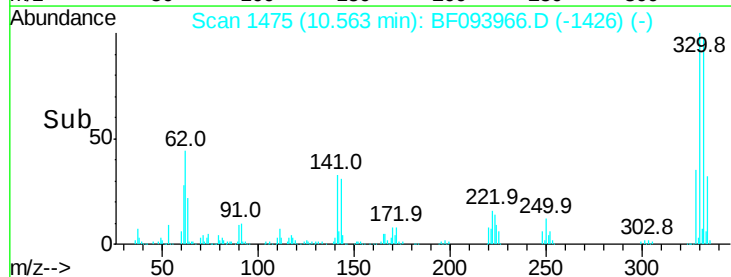
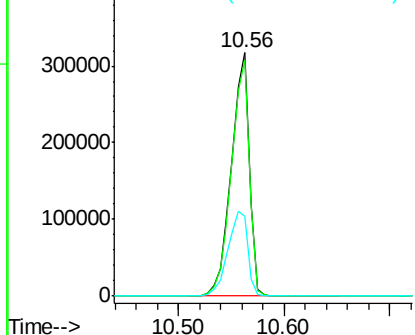


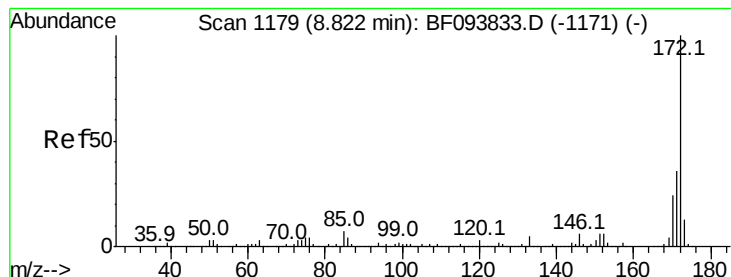
#41  
 2,4,6-Tribromophenol  
 Concen: 157.83 ng  
 RT: 10.56 min Scan# 1475  
 Delta R.T. -0.01 min  
 Lab File: BF093966.D  
 Acq: 28 Mar 2017 2:26

Tgt Ion:330 Resp: 369343  
 Ion Ratio Lower Upper  
 330 100  
 332 97.3 76.6 115.0  
 141 38.5 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: 91.60 ng

RT: 8.77 min Scan# 1170

Delta R.T. -0.01 min

Lab File: BF093966.D

Acq: 28 Mar 2017 2:26

Instrument :

BNA\_F

ClientSampleId :

WC-B42-B51-001

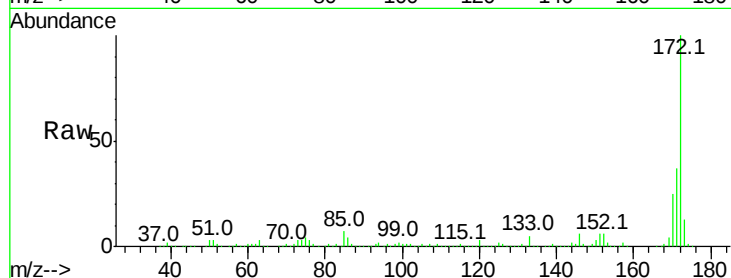
Tot Ion:172 Resp: 1778568

Ion Ratio Lower Upper

172 100

171 36.7 29.6 44.4

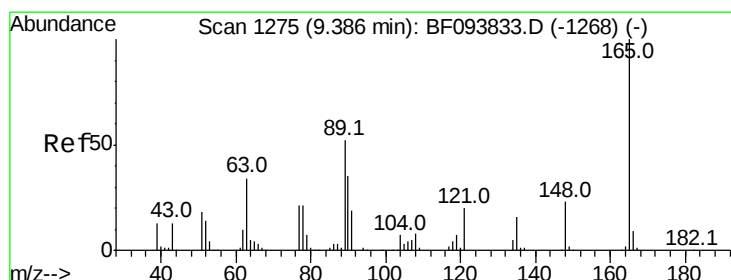
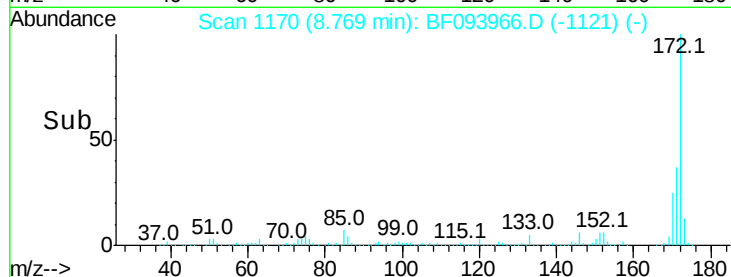
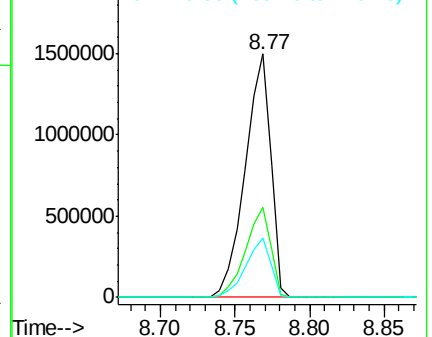
170 24.6 19.8 29.8



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



#50

2,6-Dinitrotoluene

Concen: 7.90 ng

RT: 9.58 min Scan# 1308

Delta R.T. 0.23 min

Lab File: BF093966.D

Acq: 28 Mar 2017 2:26

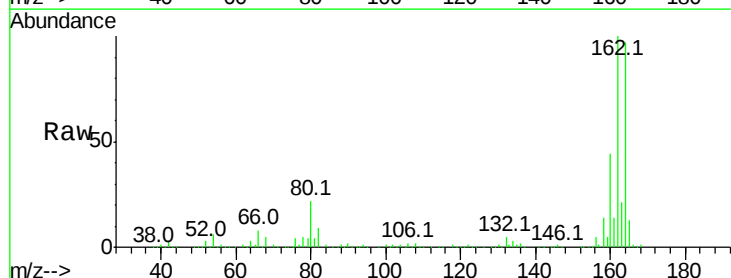
Tgt Ion:165 Resp: 38126

Ion Ratio Lower Upper

165 100

63 1.2 34.3 51.5#

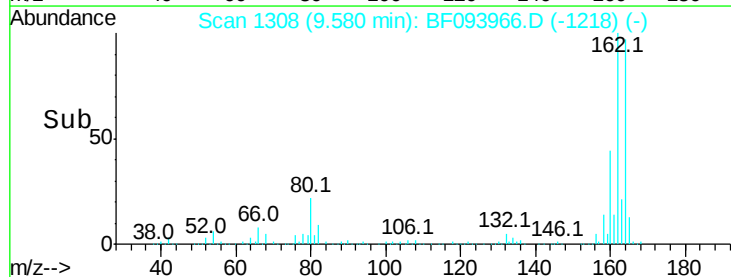
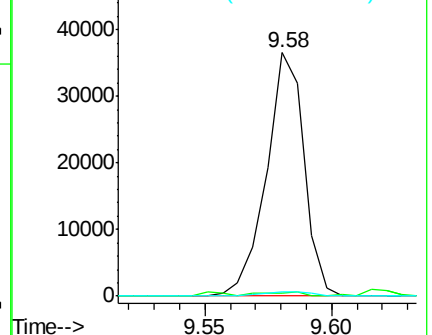
89 1.6 37.1 55.7#

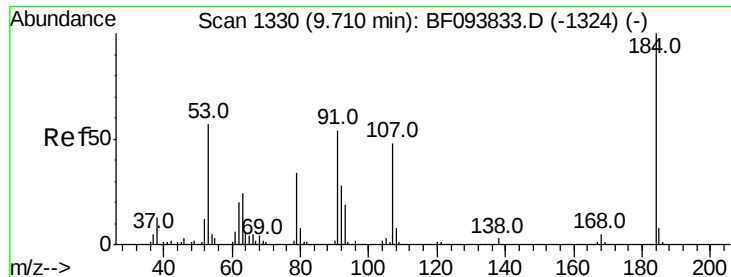


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

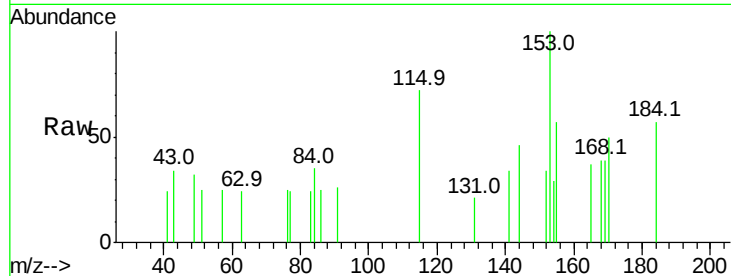




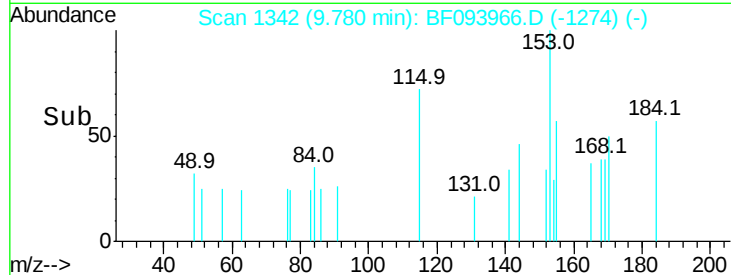
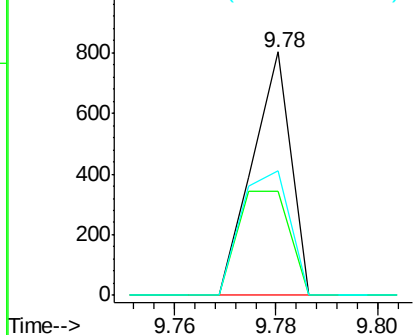
#53  
2,4-Dinitrophenol  
Concen: 4.82 ng  
RT: 9.78 min Scan# 1342  
Delta R.T. 0.10 min  
Lab File: BF093966.D  
Acq: 28 Mar 2017 2:26

Instrument :  
BNA\_F  
ClientSampleId :  
WC-B42-B51-001

Tot Ion:184 Resp: 420  
Ion Ratio Lower Upper  
184 100  
63 42.8 62.7 94.1#  
154 51.2 81.1 121.7#

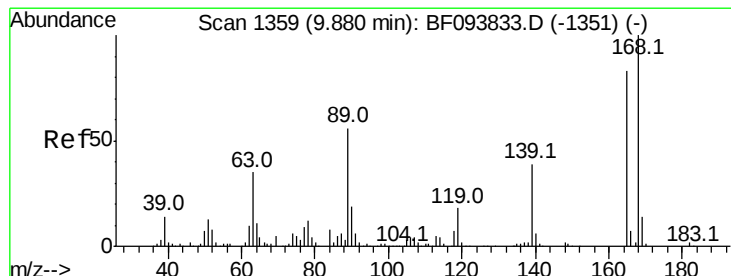


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 154.00 (153.70 to 154.70): E

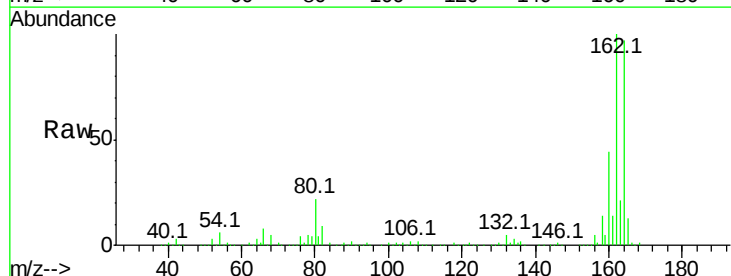
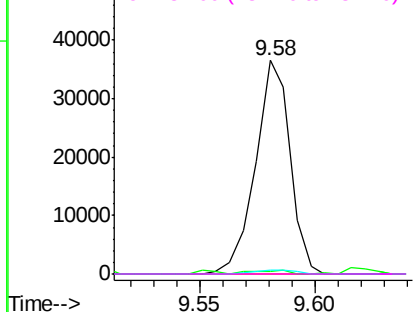


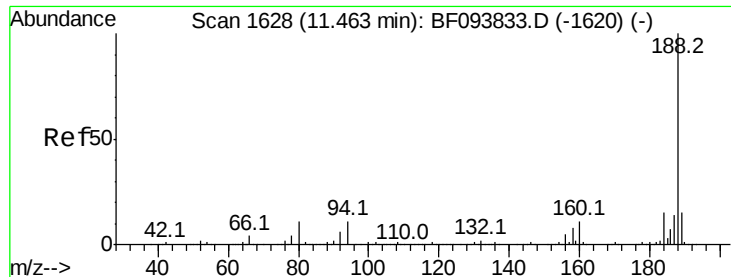
#56  
2,4-Dinitrotoluene  
Concen: 6.29 ng  
RT: 9.58 min Scan# 1308  
Delta R.T. -0.26 min  
Lab File: BF093966.D  
Acq: 28 Mar 2017 2:26

Tgt Ion:165 Resp: 38127  
Ion Ratio Lower Upper  
165 100  
63 1.2 25.4 38.0#  
89 1.6 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: 11.41 min Scan# 1619

Delta R.T. -0.01 min

Lab File: BF093966.D

Acq: 28 Mar 2017 2:26

Instrument :

BNA\_F

ClientSampleId :

WC-B42-B51-001

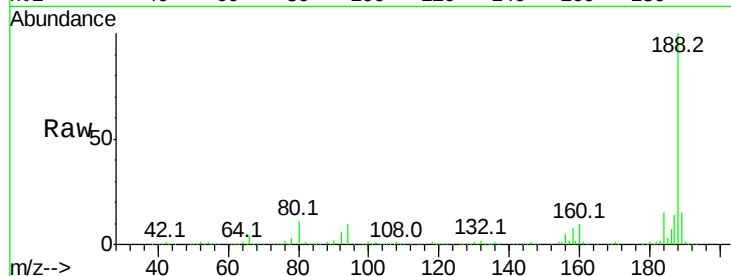
Tot Ion:188 Resp: 557889

Ion Ratio Lower Upper

188 100

94 10.4 9.4 14.2

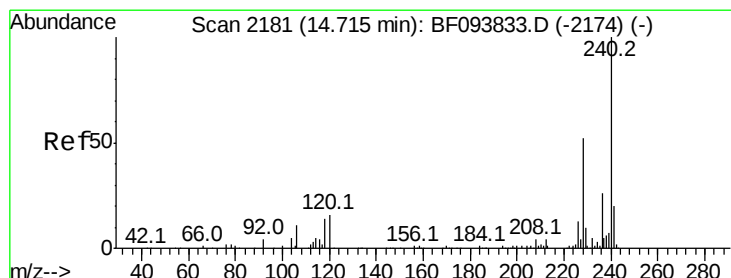
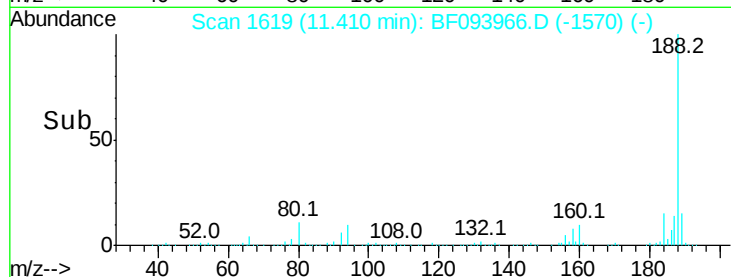
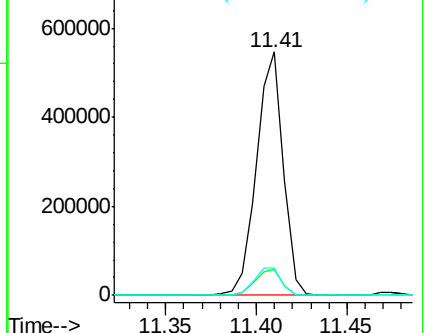
80 11.4 10.2 15.2



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.66 min Scan# 2171

Delta R.T. -0.02 min

Lab File: BF093966.D

Acq: 28 Mar 2017 2:26

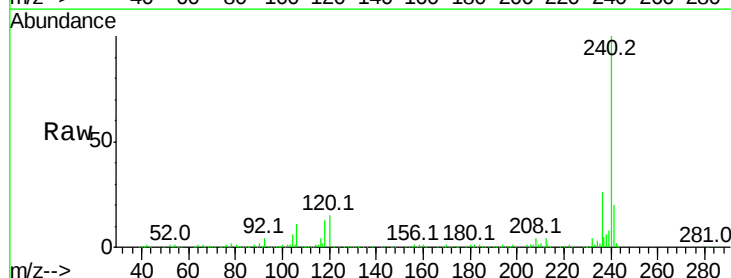
Tgt Ion:240 Resp: 473183

Ion Ratio Lower Upper

240 100

120 14.8 5.8 8.8#

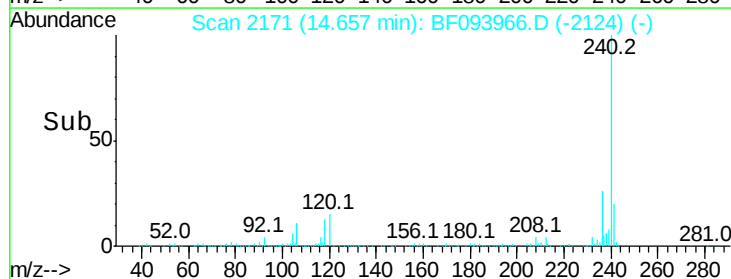
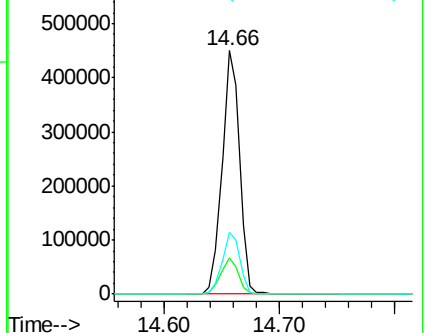
236 25.7 20.5 30.7

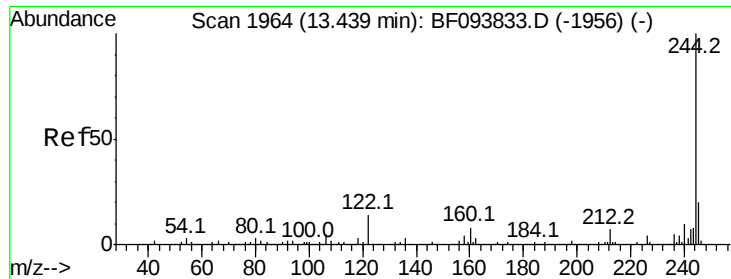


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



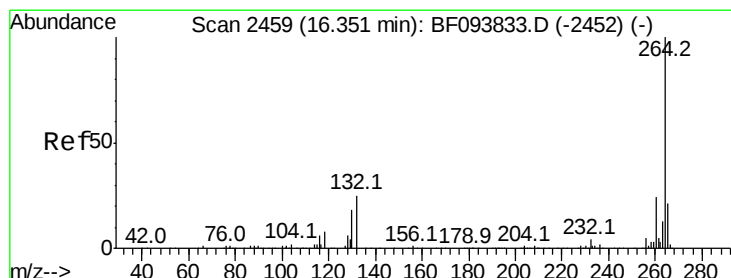
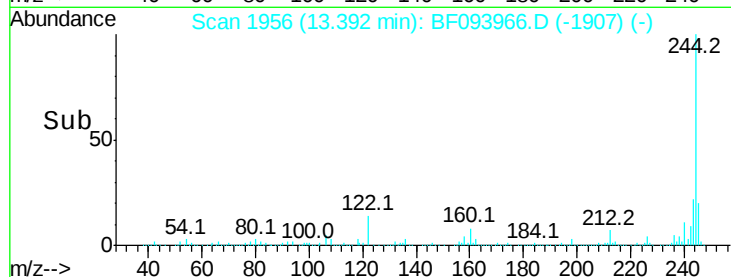
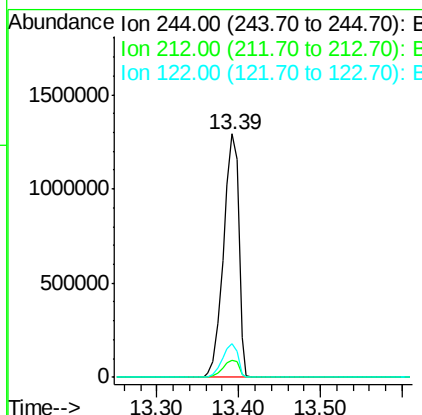
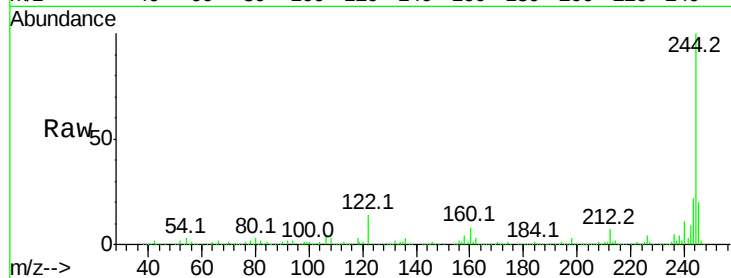


#78  
 Terphenyl-d14  
 Concen: 79.03 ng  
 RT: 13.39 min Scan# 1956  
 Delta R.T. -0.01 min  
 Lab File: BF093966.D  
 Acq: 28 Mar 2017 2:26

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-B42-B51-001

Tot Ion:244 Resp: 1668236  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.2   | 6.0   | 9.0   |
| 122 | 13.7  | 10.3  | 15.5  |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 16.29 min Scan# 2449  
 Delta R.T. -0.02 min  
 Lab File: BF093966.D  
 Acq: 28 Mar 2017 2:26

Tgt Ion:264 Resp: 294817  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.9  | 19.5  | 29.3  |
| 265 | 20.8  | 17.2  | 25.8  |

