

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF010417\  
 Data File : BF092092.D  
 Acq On : 5 Jan 2017 2:27  
 Operator : UM/SJ  
 Sample : I1004-16  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-04

Quant Time: Jan 05 03:09:14 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 05 00:16:49 2017  
 Response via : Initial Calibration

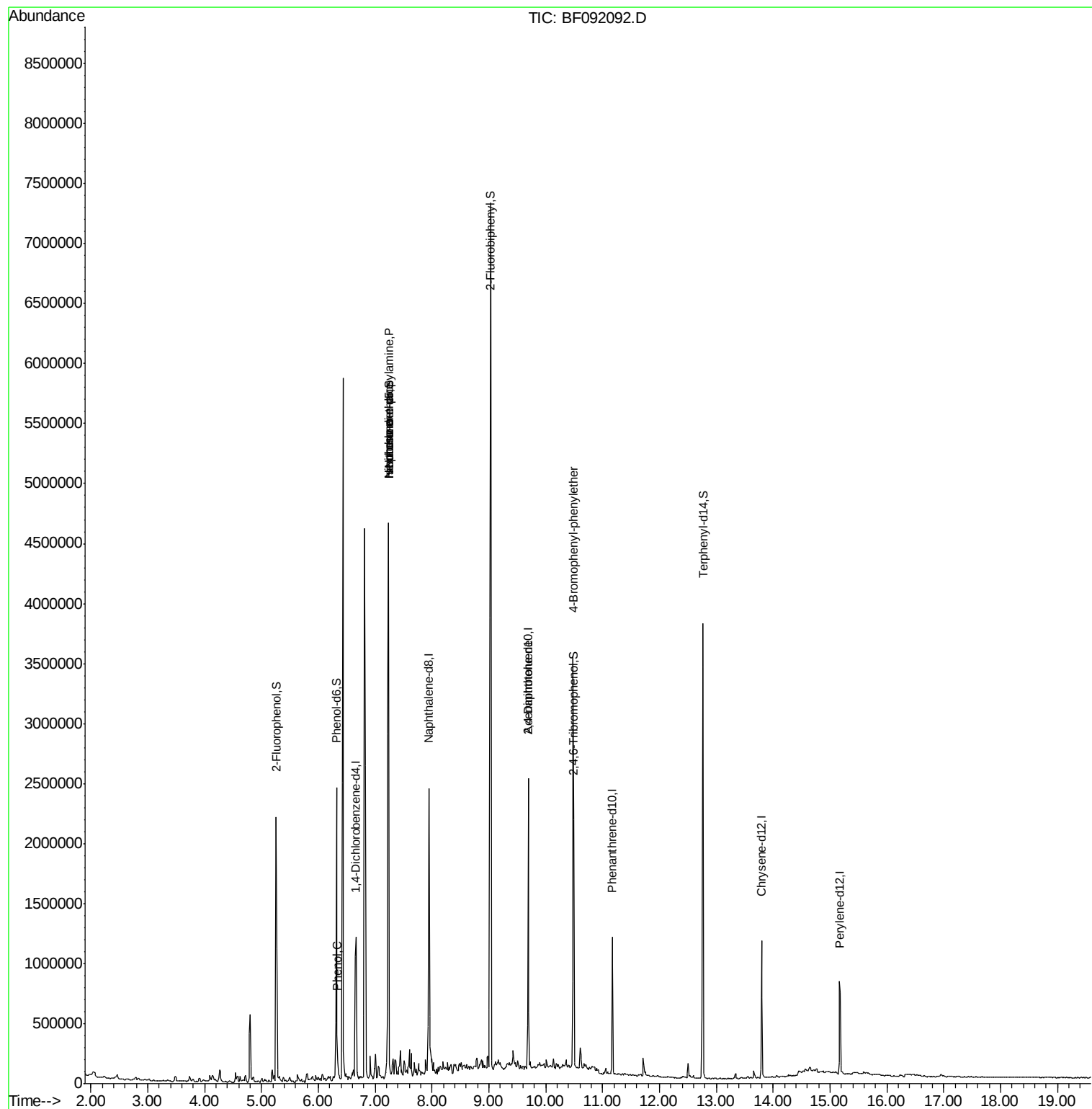
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.66  | 152  | 258505   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.94  | 136  | 1021007  | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.69  | 164  | 520735   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.17 | 188  | 591459   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 13.80 | 240  | 479045   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.18 | 264  | 416239   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.26  | 112  | 727368   | 46.98     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.32  | 99   | 813115   | 43.02     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.24  | 82   | 1835727  | 99.98     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.49 | 330  | 592750   | 137.55    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.03  | 172  | 2632111  | 106.89    | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.77 | 244  | 1810774  | 91.67     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 10) Phenol                     | 6.33  | 94   | 44892    | 2.08      | ng    | # 72     |
| 18) Hexachloroethane           | 7.24  | 117  | 159415   | 22.47     | ng    | # 2      |
| 19) n-Nitroso-di-n-propylamine | 7.24  | 70   | 245095   | 19.49     | ng    | # 72     |
| 25) Isophorone                 | 7.24  | 82   | 1710225  | 50.48     | ng    | # 65     |
| 37) 2-Methylnaphthalene        | 8.62  | 142  | 915      | Below Cal | #     | 1        |
| 56) 2,4-Dinitrotoluene         | 9.69  | 165  | 68679    | 7.51      | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.48 | 248  | 35666    | 5.80      | ng    | # 1      |
| 71) Anthracene                 | 11.25 | 178  | 1595     | Below Cal | #     | 39       |
| 73) Di-n-butylphthalate        | 11.75 | 149  | 13729    | Below Cal |       | 96       |
| 74) Fluoranthene               | 12.38 | 202  | 3042     | Below Cal |       | 87       |

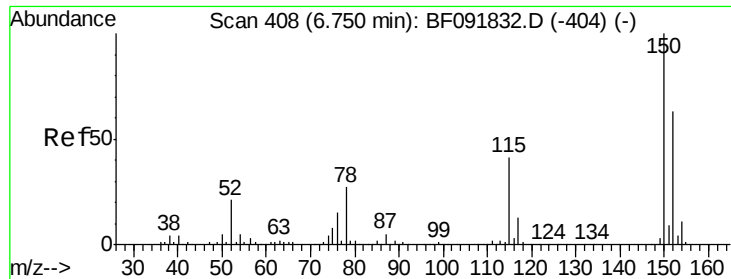
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF010417\  
Data File : BF092092.D  
Acq On : 5 Jan 2017 2:27  
Operator : UM/SJ  
Sample : I1004-16  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MW-04

Quant Time: Jan 05 03:09:14 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 05 00:16:49 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 418

Delta R.T. -0.00 min

Lab File: BF092092.D

Acq: 5 Jan 2017 2:27

Instrument :

BNA\_F

ClientSampled :

MW-04

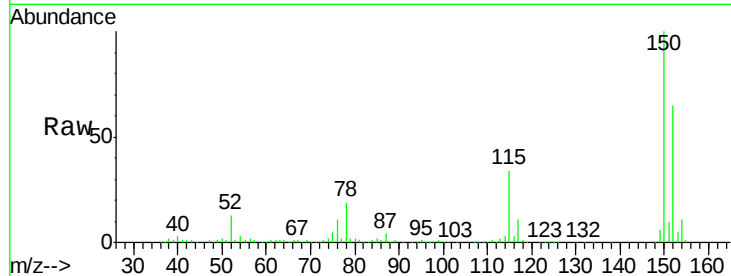
Tgt Ion:152 Resp: 258505

Ion Ratio Lower Upper

152 100

150 153.7 124.9 187.3

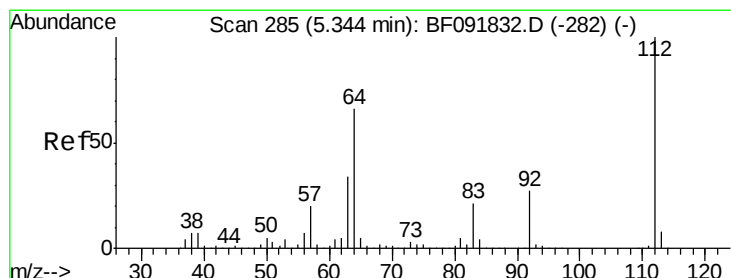
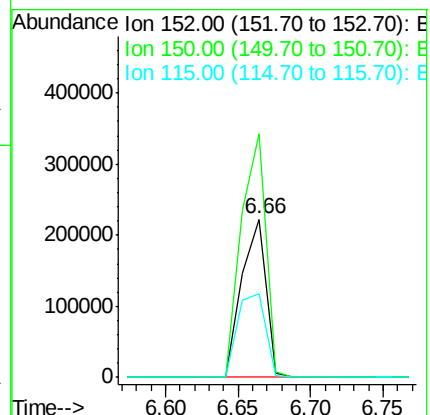
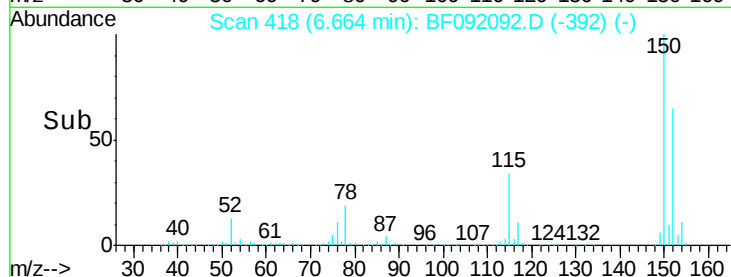
115 52.5 46.0 69.0



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: 46.98 ng

RT: 5.26 min Scan# 295

Delta R.T. -0.00 min

Lab File: BF092092.D

Acq: 5 Jan 2017 2:27

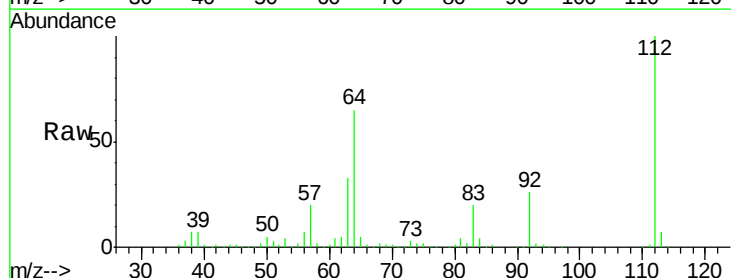
Tgt Ion:112 Resp: 727368

Ion Ratio Lower Upper

112 100

64 65.2 46.1 69.1

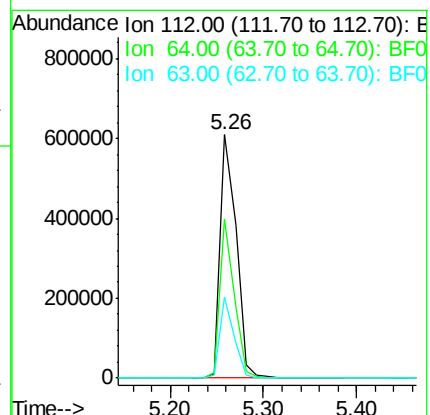
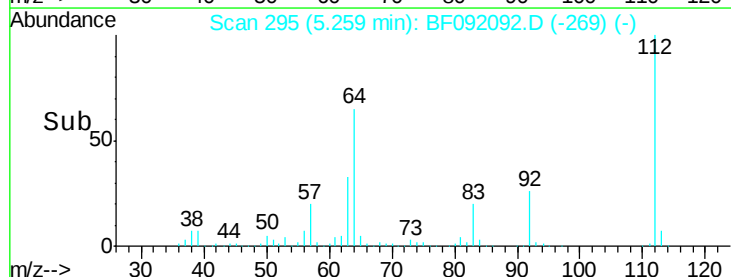
63 33.4 23.8 35.6



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: 43.02 ng

RT: 6.32 min Scan# 388

Delta R.T. -0.01 min

Lab File: BF092092.D

Acq: 5 Jan 2017 2:27

Instrument :

BNA\_F

ClientSampled :

MW-04

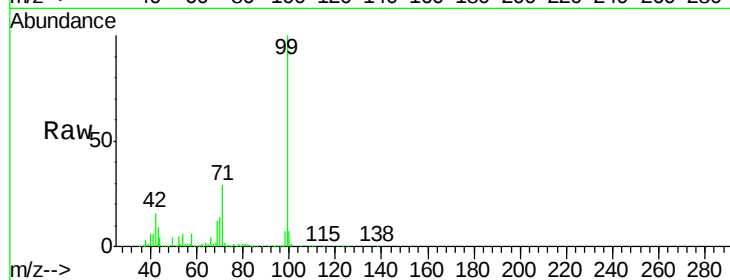
Tgt Ion: 99 Resp: 813115

Ion Ratio Lower Upper

99 100

42 16.0 15.6 23.4

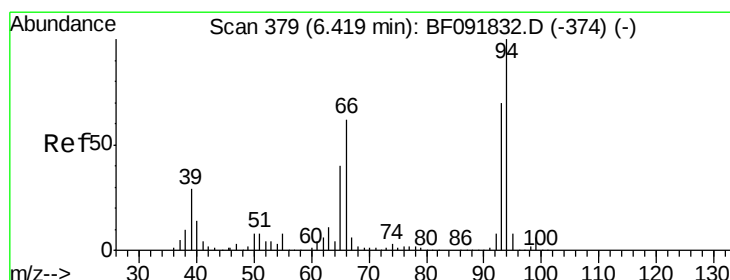
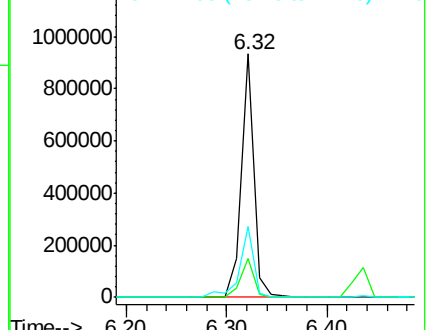
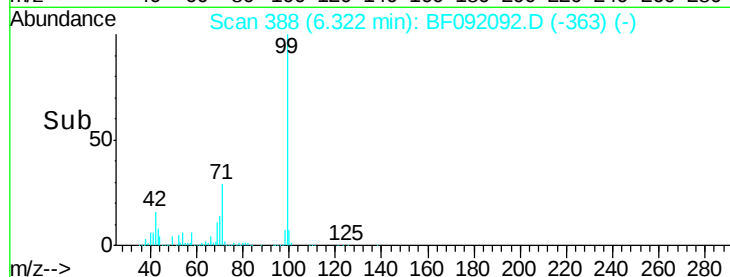
71 29.3 27.5 41.3



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: 2.08 ng

RT: 6.33 min Scan# 389

Delta R.T. -0.01 min

Lab File: BF092092.D

Acq: 5 Jan 2017 2:27

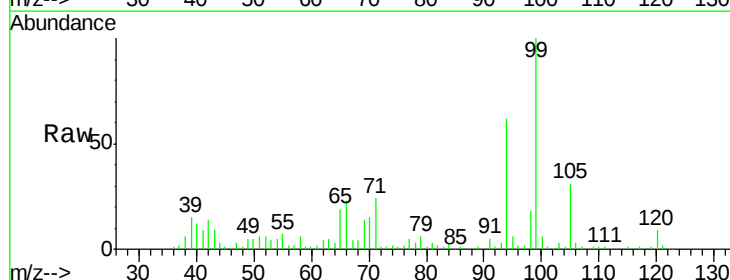
Tgt Ion: 94 Resp: 44892

Ion Ratio Lower Upper

94 100

65 30.7 21.4 61.4

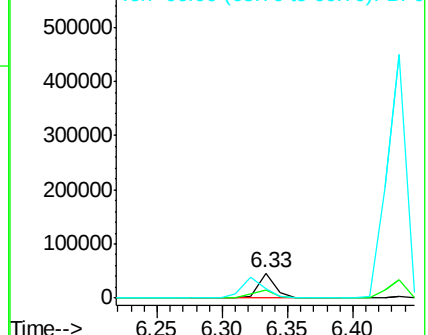
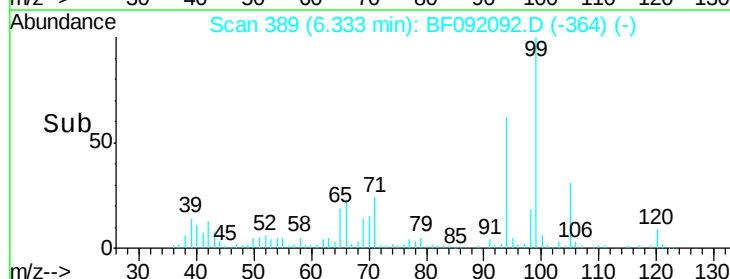
66 36.4 44.0 84.0#

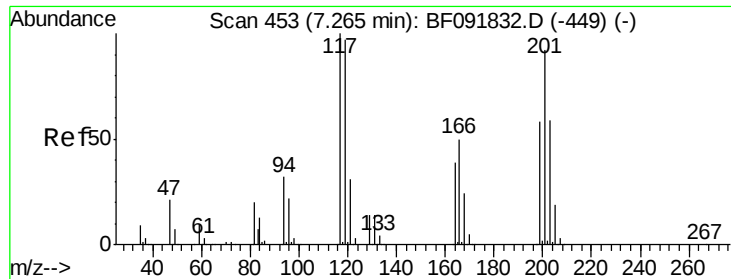


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#18

Hexachloroethane

Concen: 22.47 ng

RT: 7.24 min Scan# 468

Delta R.T. 0.06 min

Lab File: BF092092.D

Acq: 5 Jan 2017 2:27

Instrument :

BNA\_F

ClientSampled :

MW-04

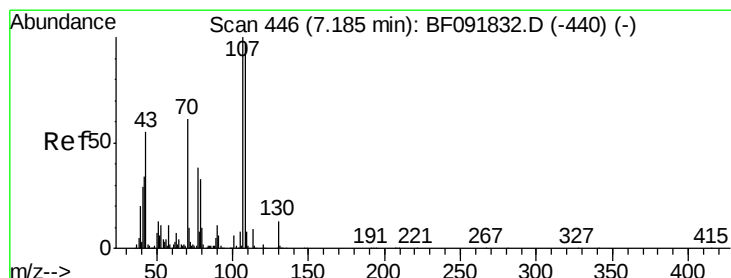
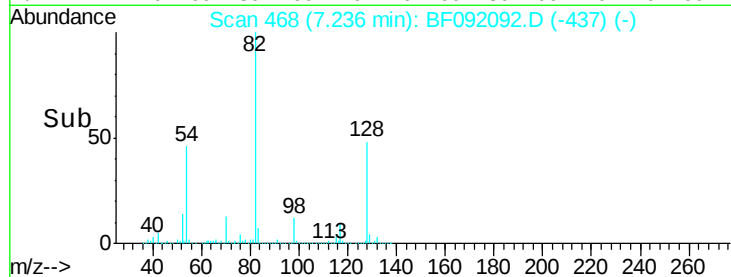
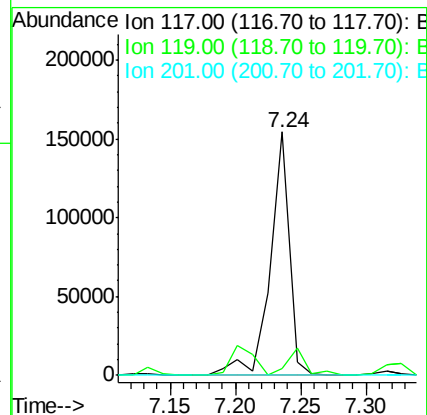
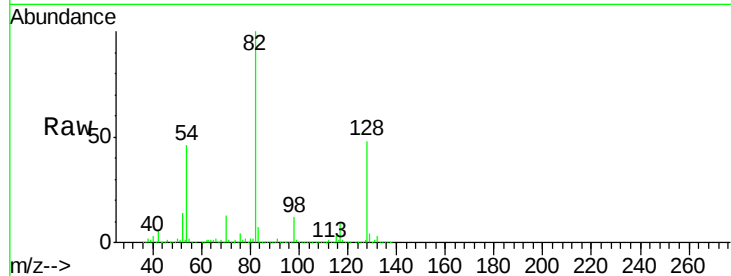
Tgt Ion:117 Resp: 159415

Ion Ratio Lower Upper

117 100

119 2.7 78.1 117.1#

201 0.0 78.6 117.8#



#19

n-Nitroso-di-n-propylamine

Concen: 19.49 ng

RT: 7.24 min Scan# 468

Delta R.T. 0.14 min

Lab File: BF092092.D

Acq: 5 Jan 2017 2:27

Tgt Ion: 70 Resp: 245095

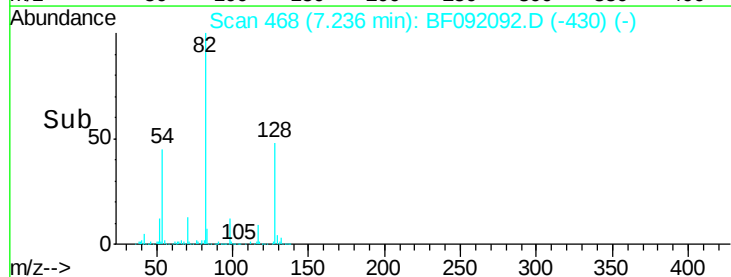
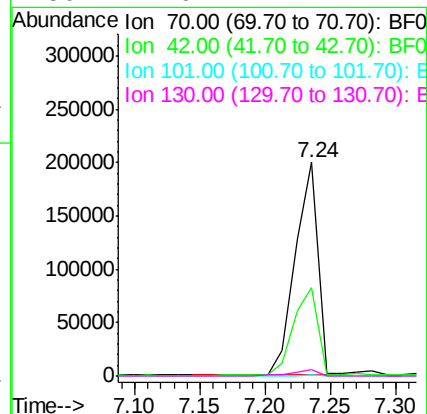
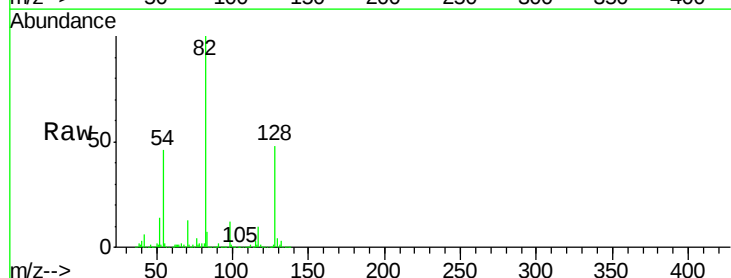
Ion Ratio Lower Upper

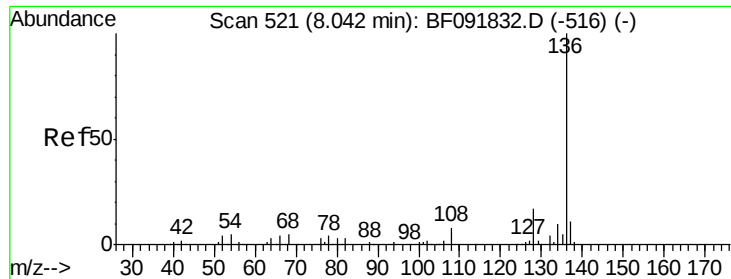
70 100

42 41.3 49.4 74.0#

101 0.3 7.4 11.2#

130 2.9 14.2 21.4#

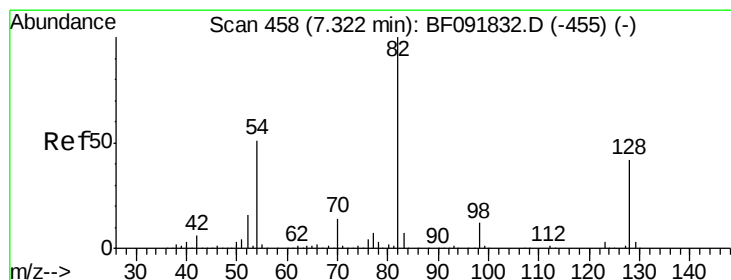
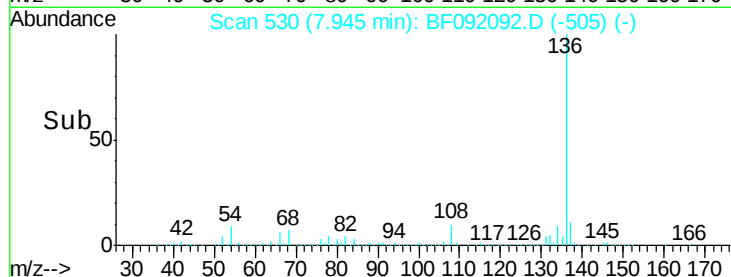
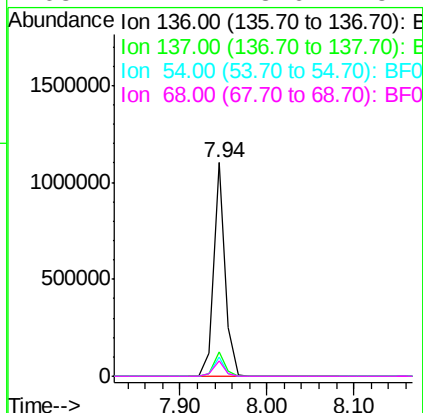
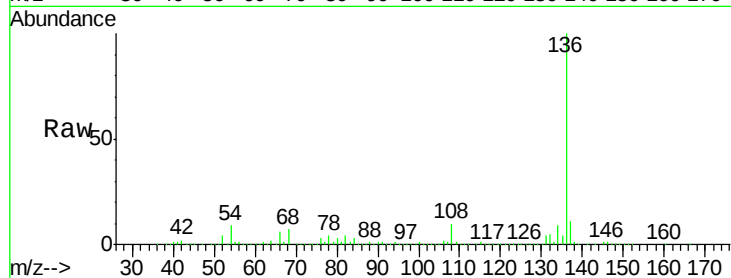




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.94 min Scan# 530  
Delta R.T. -0.01 min  
Lab File: BF092092.D  
Acq: 5 Jan 2017 2:27

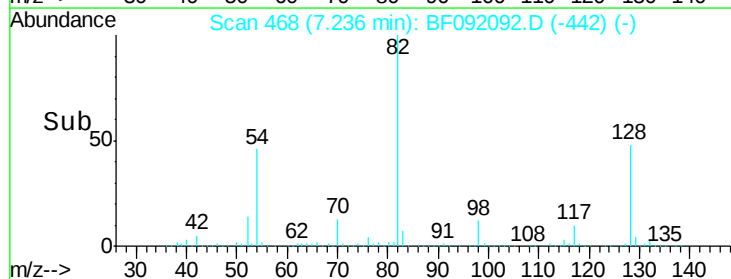
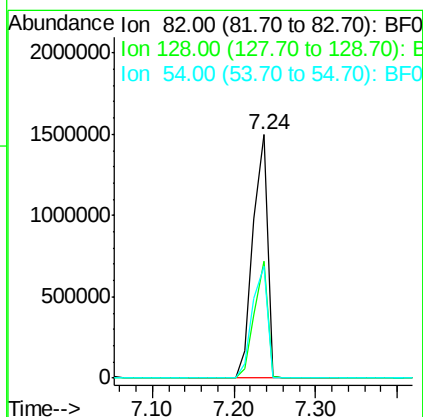
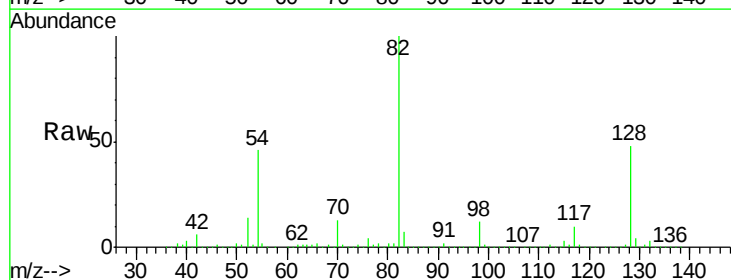
Instrument :  
BNA\_F  
ClientSampleId :  
MW-04

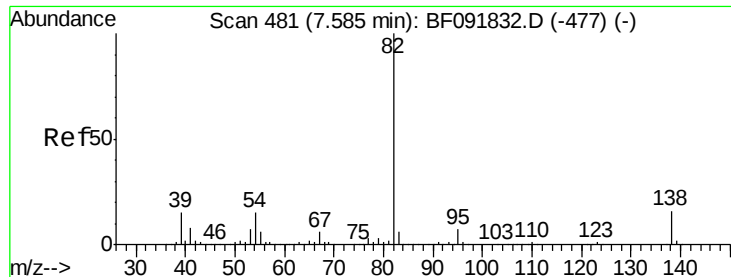
Tgt Ion:136 Resp: 1021007  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.4 12.6  
54 9.0 4.5 6.7#  
68 7.4 3.6 5.4#



#23  
Nitrobenzene-d5  
Concen: 99.98 ng  
RT: 7.24 min Scan# 468  
Delta R.T. -0.00 min  
Lab File: BF092092.D  
Acq: 5 Jan 2017 2:27

Tgt Ion: 82 Resp: 1835727  
Ion Ratio Lower Upper  
82 100  
128 47.8 34.6 52.0  
54 45.9 39.5 59.3





#25

Isophorone

Concen: 50.48 ng

RT: 7.24 min Scan# 468

Delta R.T. -0.26 min

Lab File: BF092092.D

Acq: 5 Jan 2017 2:27

Instrument :

BNA\_F

ClientSampleId :

MW-04

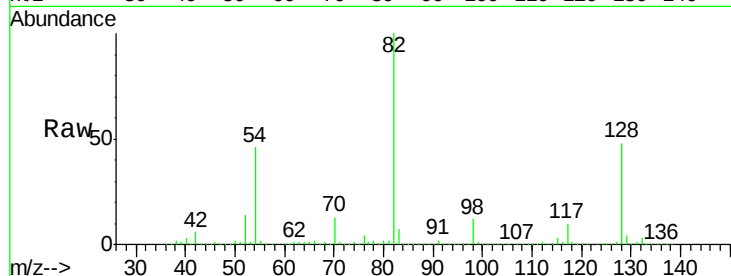
Tgt Ion: 82 Resp: 1710225

Ion Ratio Lower Upper

82 100

95 0.1 5.6 8.4#

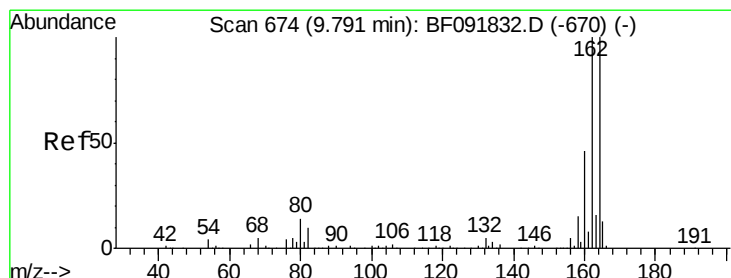
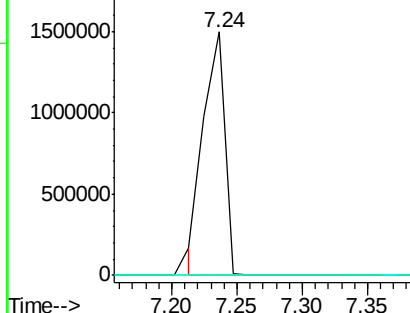
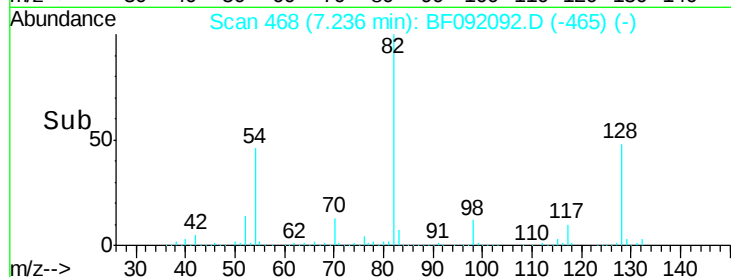
138 0.0 14.6 22.0#



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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.69 min Scan# 683

Delta R.T. -0.01 min

Lab File: BF092092.D

Acq: 5 Jan 2017 2:27

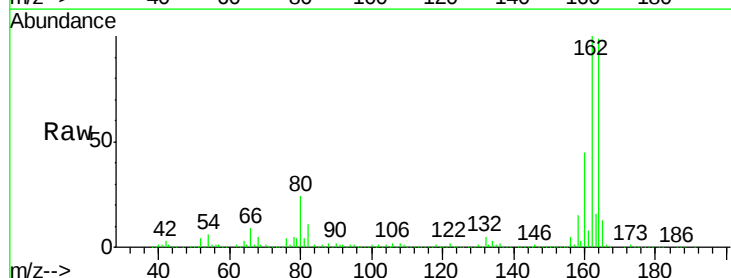
Tgt Ion: 164 Resp: 520735

Ion Ratio Lower Upper

164 100

162 100.6 80.2 120.2

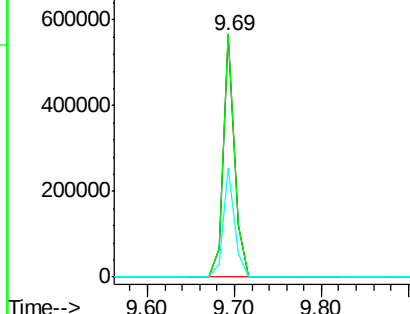
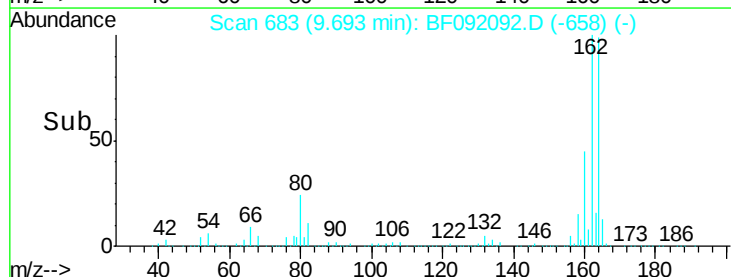
160 45.1 36.9 55.3

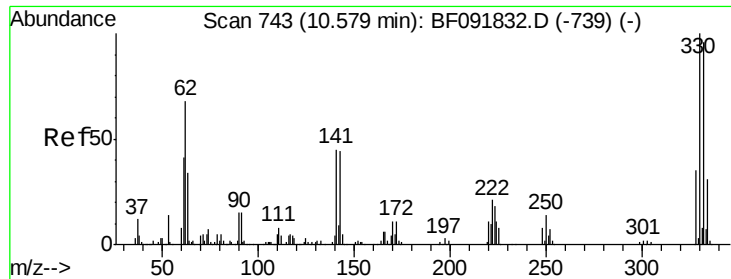


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

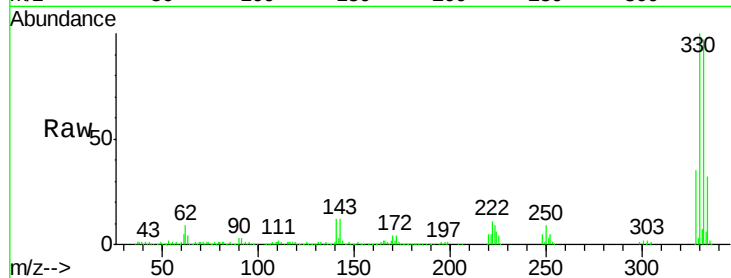




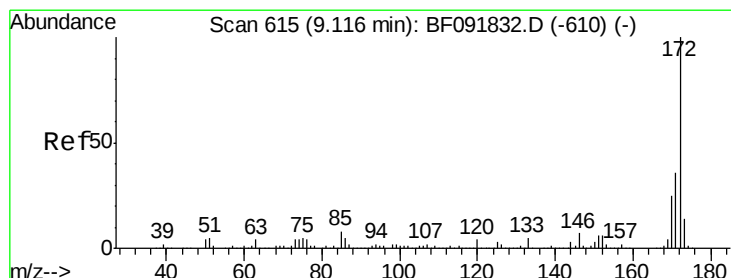
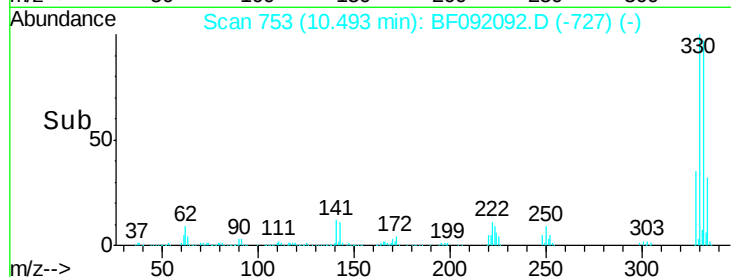
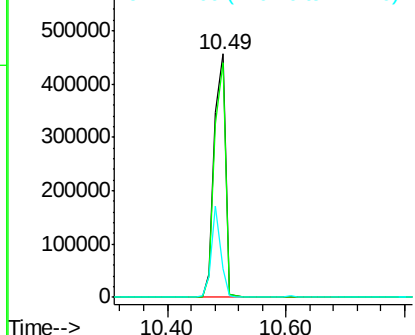
#41  
 2,4,6-Tribromophenol  
 Concen: 137.55 ng  
 RT: 10.49 min Scan# 753  
 Delta R.T. -0.00 min  
 Lab File: BF092092.D  
 Acq: 5 Jan 2017 2:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-04

Tgt Ion:330 Resp: 592750  
 Ion Ratio Lower Upper  
 330 100  
 332 95.2 77.4 116.2  
 141 31.3 34.1 51.1#

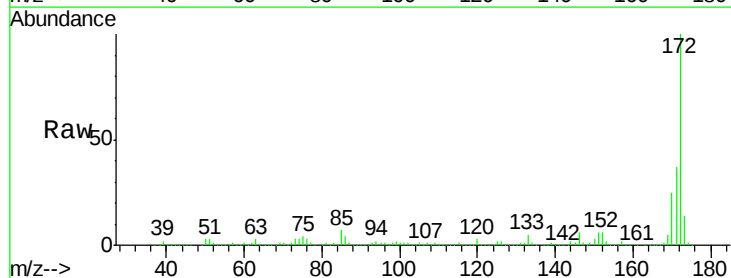


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

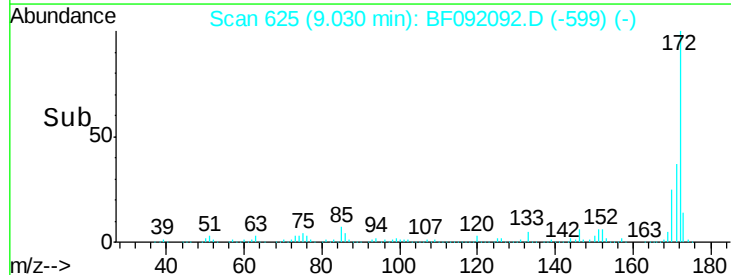
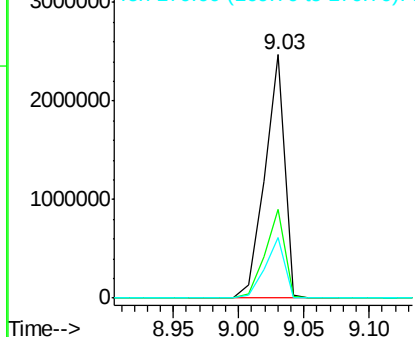


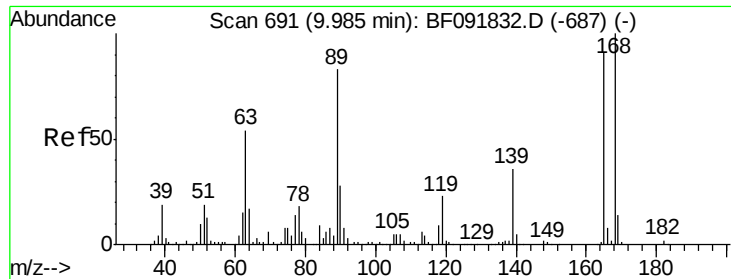
#44  
 2-Fluorobiphenyl  
 Concen: 106.89 ng  
 RT: 9.03 min Scan# 625  
 Delta R.T. -0.00 min  
 Lab File: BF092092.D  
 Acq: 5 Jan 2017 2:27

Tgt Ion:172 Resp: 2632111  
 Ion Ratio Lower Upper  
 172 100  
 171 36.6 29.4 44.0  
 170 25.1 20.2 30.4



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

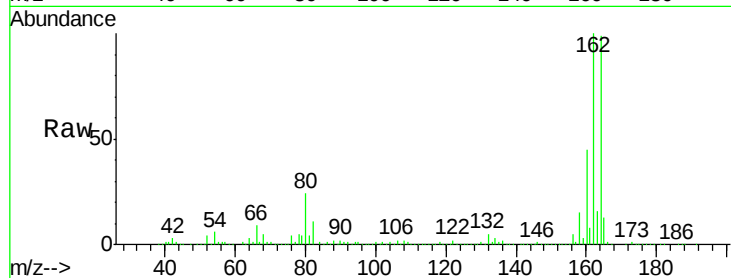




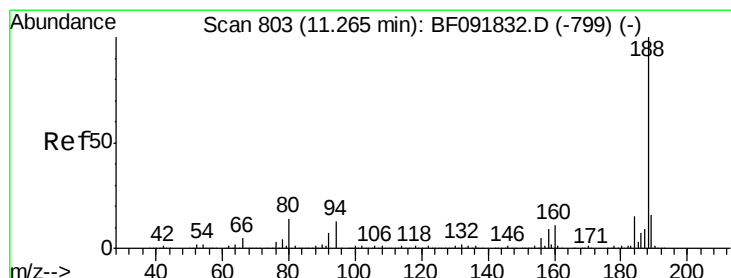
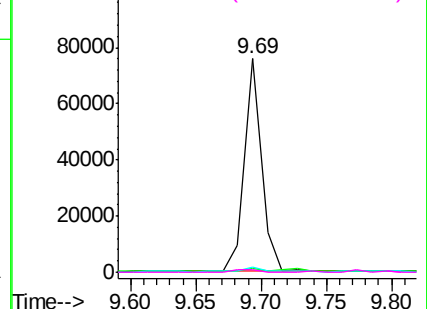
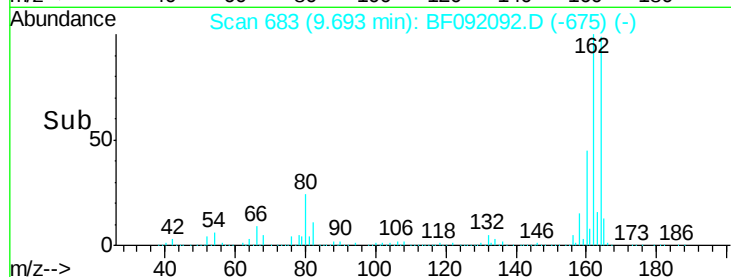
#56  
 2,4-Dinitrotoluene  
 Concen: 7.51 ng  
 RT: 9.69 min Scan# 683  
 Delta R.T. -0.21 min  
 Lab File: BF092092.D  
 Acq: 5 Jan 2017 2:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 68679 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.5   | 40.2  | 60.4# |
| 89       | 2.1   | 62.5  | 93.7# |
| 182      | 1.1   | 1.8   | 2.8#  |

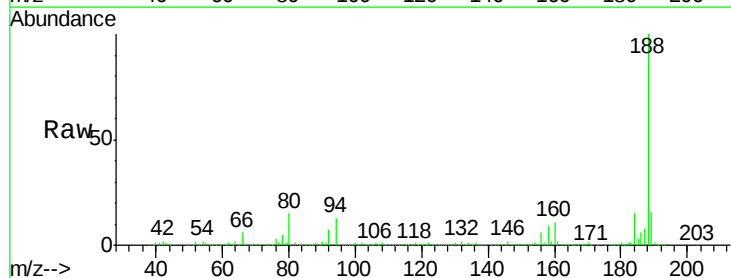


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

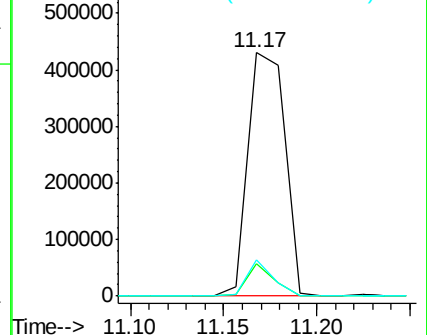
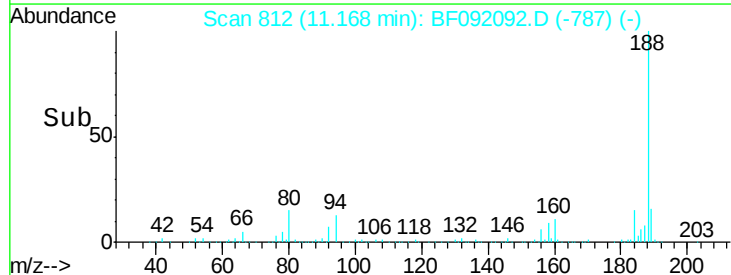


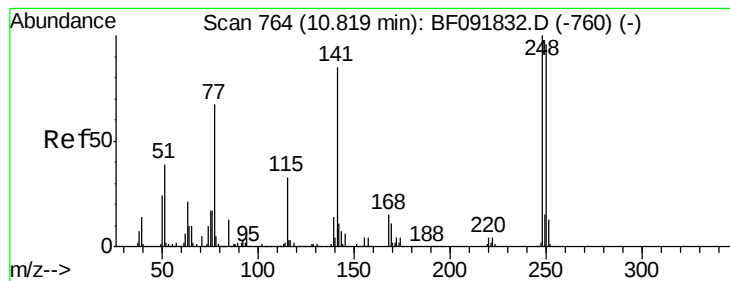
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.17 min Scan# 812  
 Delta R.T. -0.01 min  
 Lab File: BF092092.D  
 Acq: 5 Jan 2017 2:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 591459 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 13.4  | 10.0  | 15.0   |
| 80       | 15.0  | 11.2  | 16.8   |



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: 5.80 ng

RT: 10.48 min Scan# 752

Delta R.T. -0.25 min

Lab File: BF092092.D

Acq: 5 Jan 2017 2:27

Instrument :

BNA\_F

ClientSampleId :

MW-04

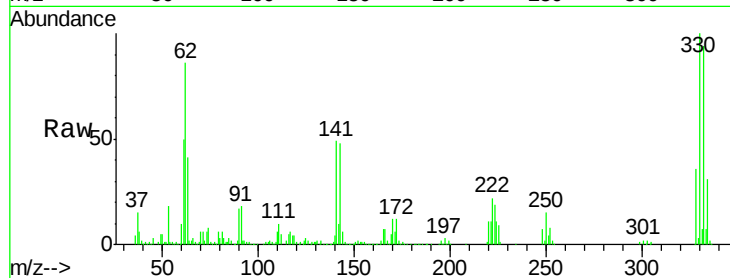
Tgt Ion:248 Resp: 35666

Ion Ratio Lower Upper

248 100

250 199.5 76.9 115.3#

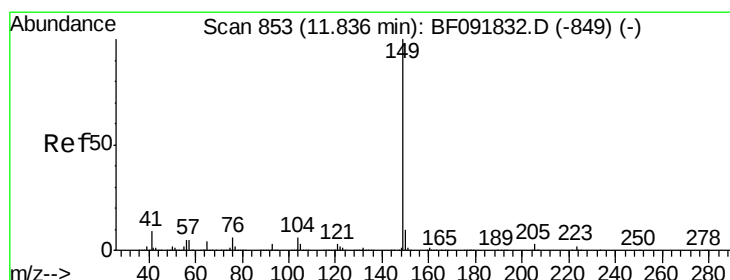
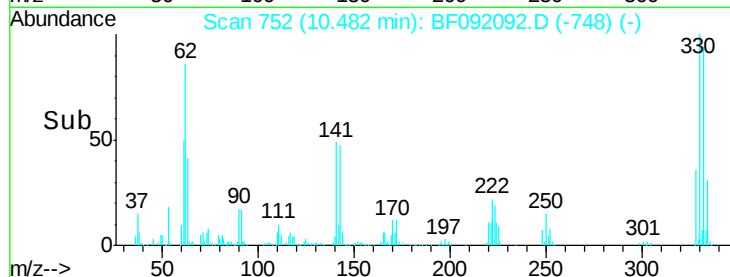
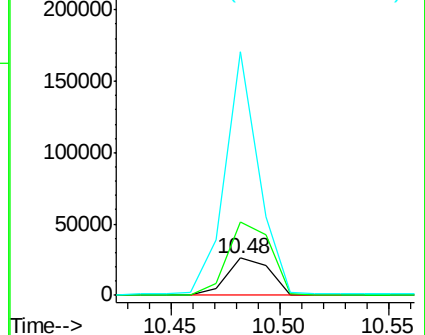
141 659.7 68.2 102.4#



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



#73

Di-n-butylphthalate

Concen: Below Cal

RT: 11.75 min Scan# 863

Delta R.T. -0.00 min

Lab File: BF092092.D

Acq: 5 Jan 2017 2:27

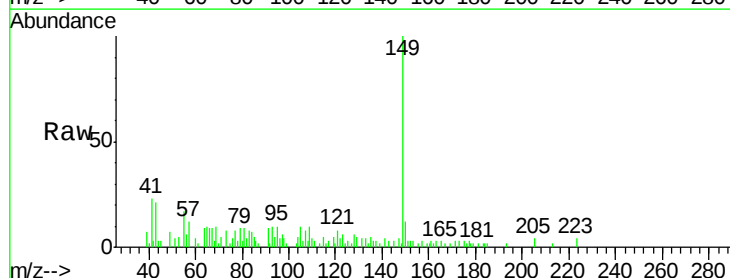
Tgt Ion:149 Resp: 13729

Ion Ratio Lower Upper

149 100

150 11.7 8.1 12.1

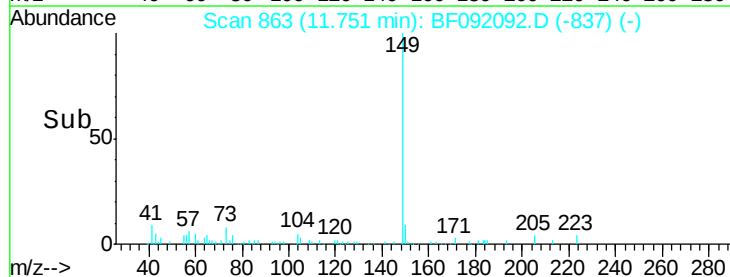
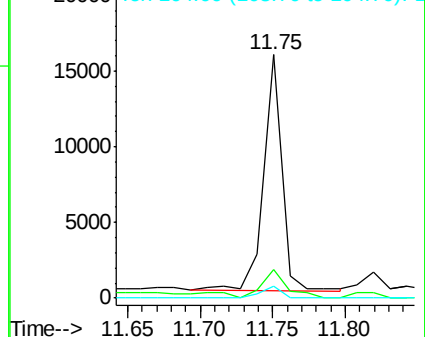
104 4.8 4.6 7.0

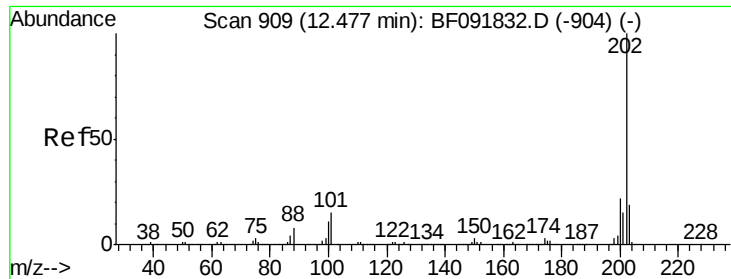


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

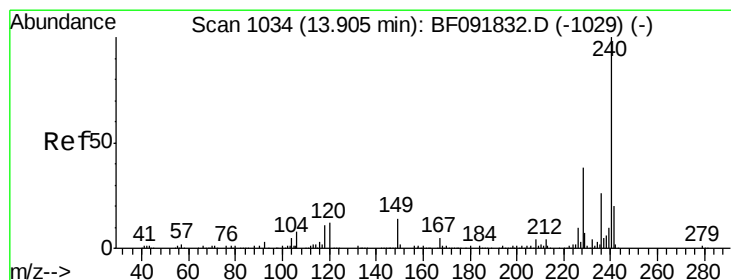
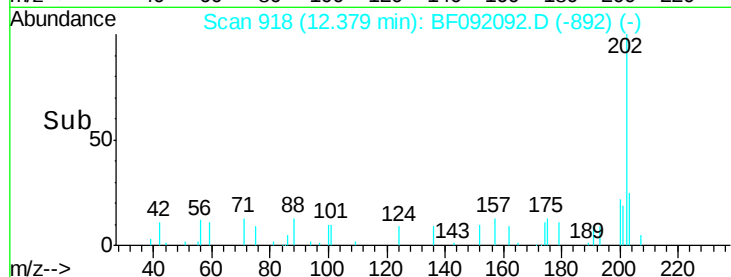
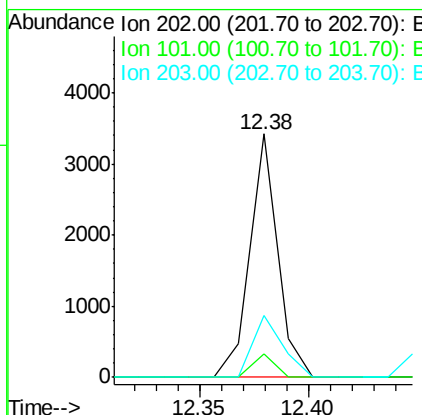
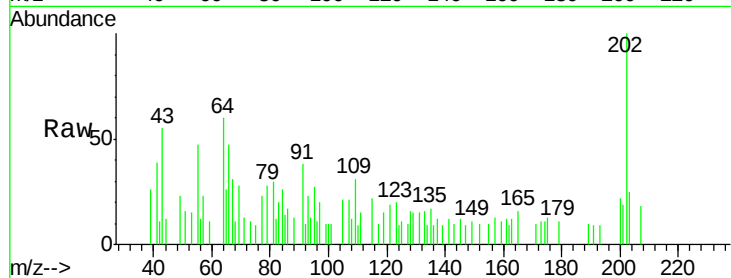




#74  
Fluoranthene  
Concen: Below Cal  
RT: 12.38 min Scan# 918  
Delta R.T. -0.00 min  
Lab File: BF092092.D  
Acq: 5 Jan 2017 2:27

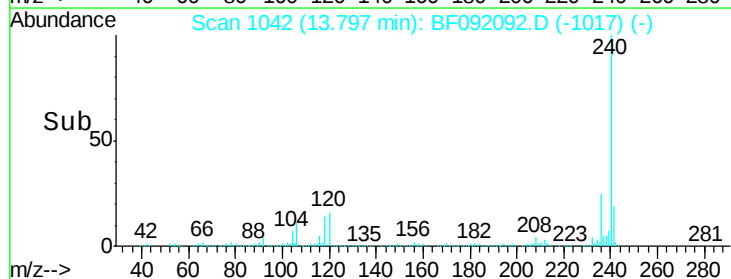
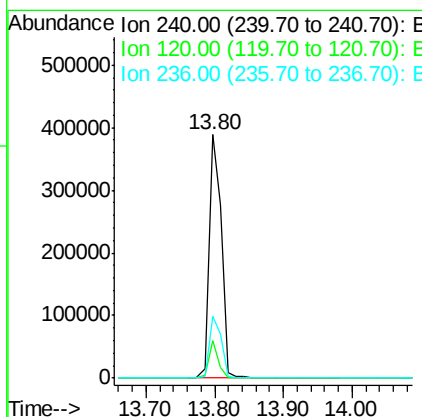
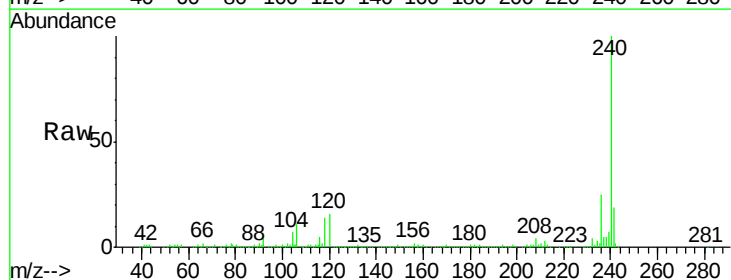
Instrument :  
BNA\_F  
ClientSampleId :  
MW-04

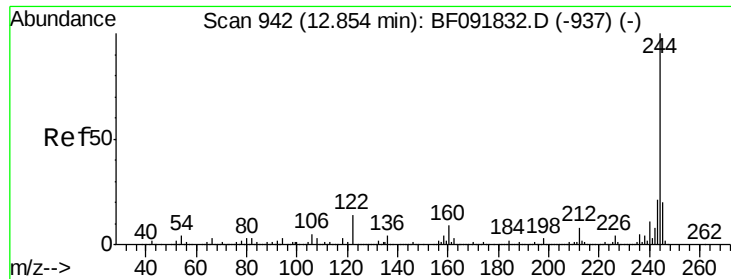
Tgt Ion:202 Resp: 3042  
Ion Ratio Lower Upper  
202 100  
101 9.8 0.0 34.6  
203 25.3 0.0 38.7



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.80 min Scan# 1042  
Delta R.T. -0.01 min  
Lab File: BF092092.D  
Acq: 5 Jan 2017 2:27

Tgt Ion:240 Resp: 479045  
Ion Ratio Lower Upper  
240 100  
120 15.6 12.9 19.3  
236 25.2 20.9 31.3

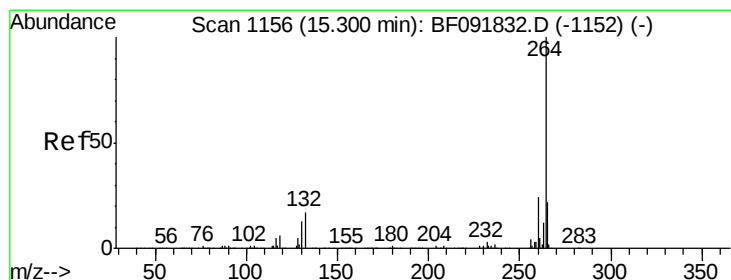
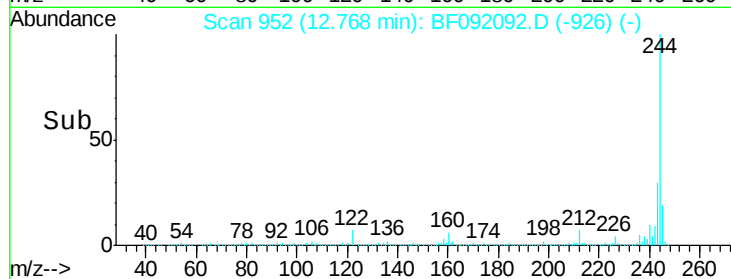
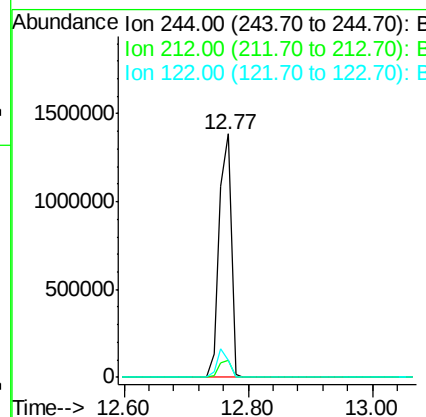
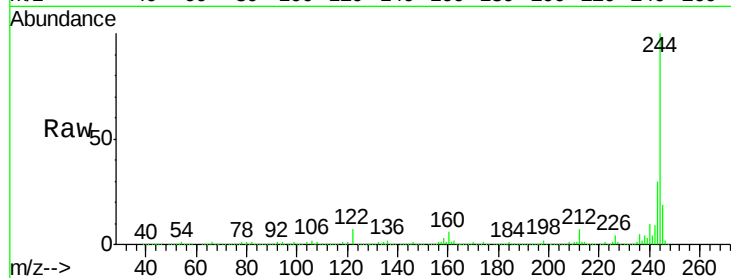




#78  
 Terphenyl-d14  
 Concen: 91.67 ng  
 RT: 12.77 min Scan# 952  
 Delta R.T. -0.00 min  
 Lab File: BF092092.D  
 Acq: 5 Jan 2017 2:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-04

Tgt Ion:244 Resp: 1810774  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 6.2 9.2  
 122 7.0 11.4 17.2#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.18 min Scan# 1163  
 Delta R.T. -0.00 min  
 Lab File: BF092092.D  
 Acq: 5 Jan 2017 2:27

Tgt Ion:264 Resp: 416239  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 19.2 28.8  
 265 20.8 17.4 26.0

