

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021417\  
 Data File : BF092944.D  
 Acq On : 14 Feb 2017 15:20  
 Operator : SJ/MA  
 Sample : I1794-06  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

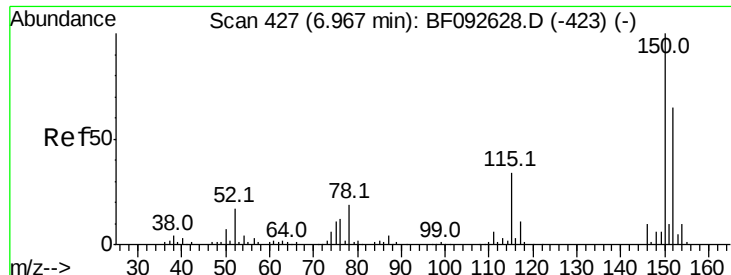
Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 14 15:49:19 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 13 18:04:38 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.88  | 152  | 156609   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.16  | 136  | 599858   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.92  | 164  | 363407   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.39 | 188  | 562936   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 14.03 | 240  | 501188   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.46 | 264  | 366506   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 498407   | 54.60  | ng    | -0.01    |
| 7) Phenol-d6                   | 6.51  | 99   | 417804   | 35.57  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.44  | 82   | 839311   | 77.92  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.70 | 330  | 288899   | 109.92 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.24  | 172  | 1572276  | 78.38  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.98 | 244  | 1274522  | 59.75  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 109435   | 14.64  | ng    | # 82     |
| 25) Isophorone                 | 7.44  | 82   | 751713   | 37.45  | ng    | # 65     |
| 31) Naphthalene                | 8.18  | 128  | 832926   | 27.39  | ng    | # 99     |
| 32) Benzoic acid               | 7.84  | 122  | 206      | 7.20   | ng    | # 24     |
| 33) 4-Chloroaniline            | 8.18  | 127  | 110074   | 9.23   | ng    | # 32     |
| 37) 2-Methylnaphthalene        | 8.97  | 142  | 86162    | 4.41   | ng    | # 96     |
| 50) 2,6-Dinitrotoluene         | 9.92  | 165  | 47434    | 8.97   | ng    | # 30     |
| 51) Acenaphthene               | 9.94  | 154  | 56290    | 2.65   | ng    | # 96     |
| 55) 4-Nitrophenol              | 10.11 | 139  | 17910    | 4.11   | ng    | # 8      |
| 56) 2,4-Dinitrotoluene         | 9.92  | 165  | 47434    | 6.74   | ng    | # 19     |
| 57) Fluorene                   | 10.45 | 166  | 55421    | 2.53   | ng    | # 95     |
| 64) 4,6-Dinitro-2-methylphenol | 10.70 | 198  | 868      | 2.91   | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248  | 21847    | 3.71   | ng    | # 1      |
| 70) Phenanthrene               | 11.41 | 178  | 106379   | 3.30   | ng    | # 99     |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.88 min Scan# 419

Delta R.T. -0.01 min

Lab File: BF092944.D

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ClientSampleId :

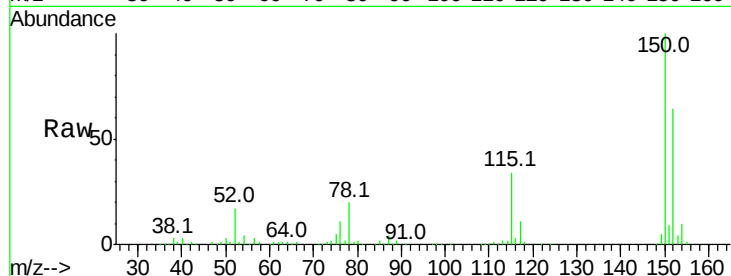
Tot Ion:152 Resp: 156609

Ion Ratio Lower Upper

152 100

150 155.9 124.9 187.3

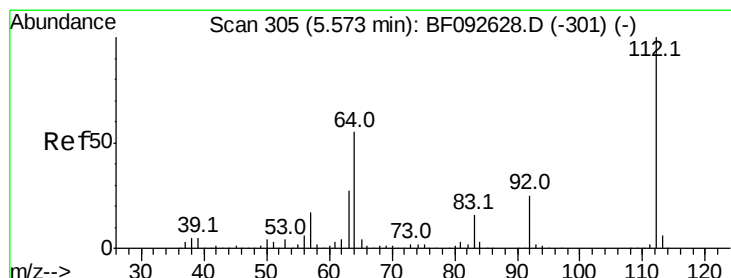
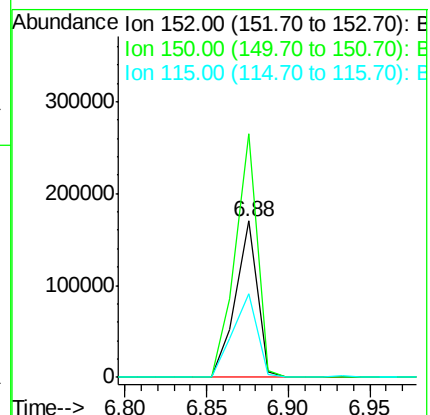
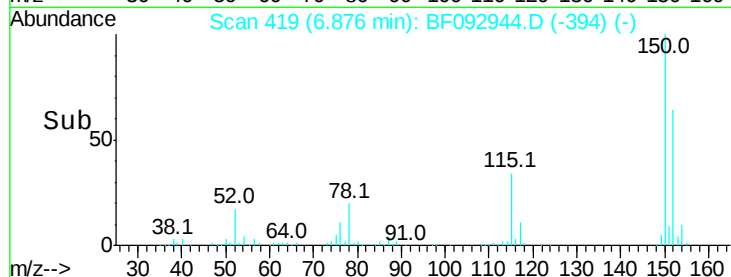
115 53.5 46.0 69.0



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: 54.60 ng

RT: 5.47 min Scan# 296

Delta R.T. -0.01 min

Lab File: BF092944.D

Acq: 14 Feb 2017 15:20

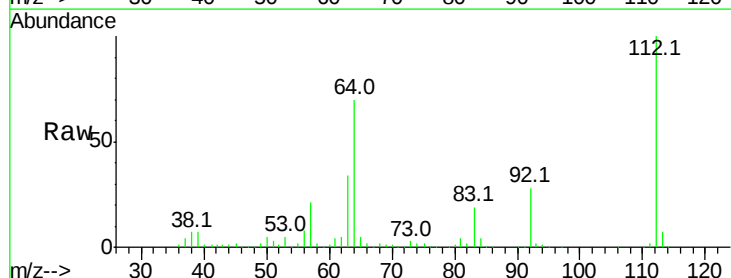
Tgt Ion:112 Resp: 498407

Ion Ratio Lower Upper

112 100

64 70.3 46.1 69.1#

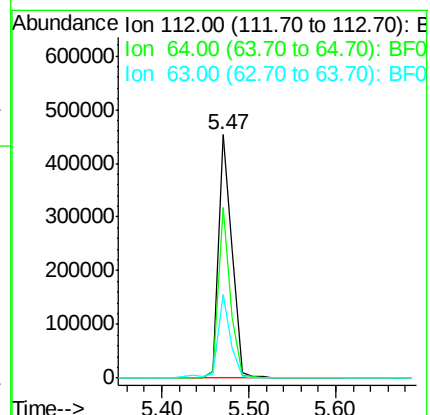
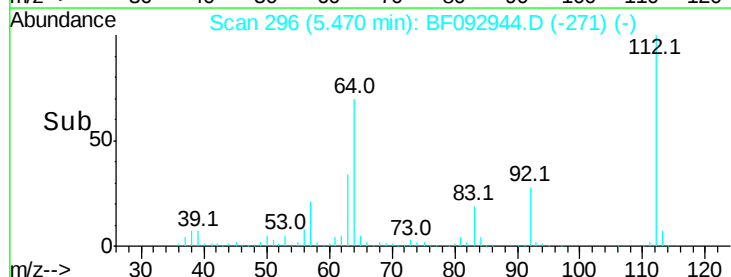
63 34.4 23.8 35.6

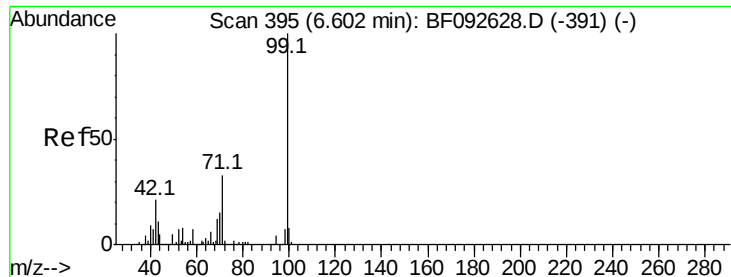


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 35.57 ng

RT: 6.51 min Scan# 387

Delta R.T. -0.02 min

Lab File: BF092944.D

Acq: 14 Feb 2017 15:20

Instrument :

BNA\_F

ClientSampleId :

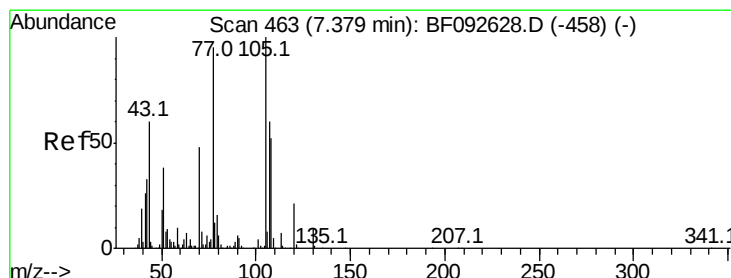
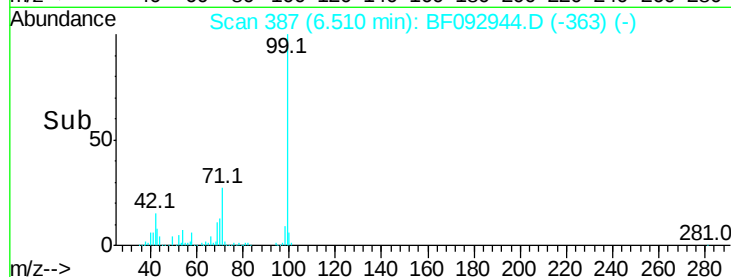
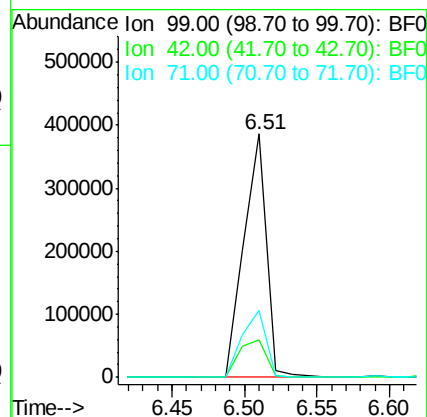
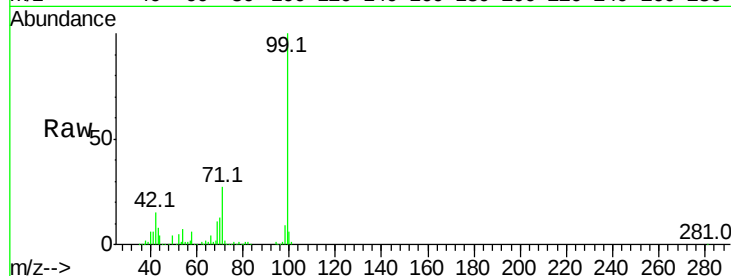
Tot Ion: 99 Resp: 417804

Ion Ratio Lower Upper

99 100

42 15.4 15.6 23.4#

71 27.5 27.5 41.3#



#19

n-Nitroso-di-n-propylamine

Concen: 14.64 ng

RT: 7.44 min Scan# 468

Delta R.T. 0.13 min

Lab File: BF092944.D

Acq: 14 Feb 2017 15:20

Tgt Ion: 70 Resp: 109435

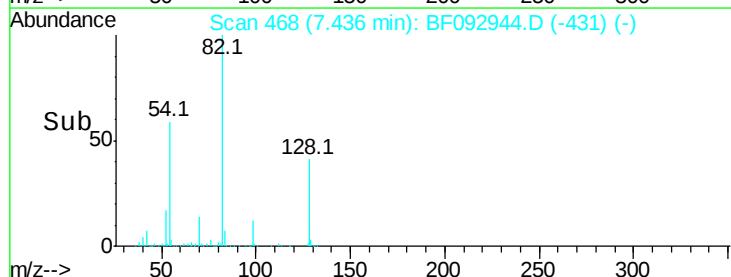
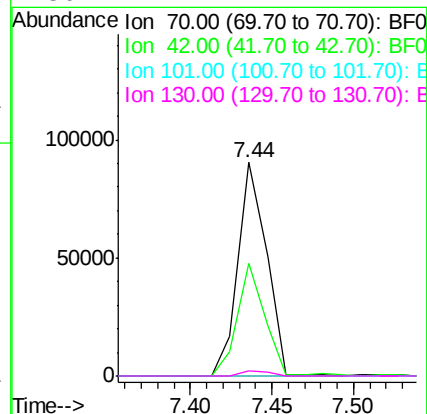
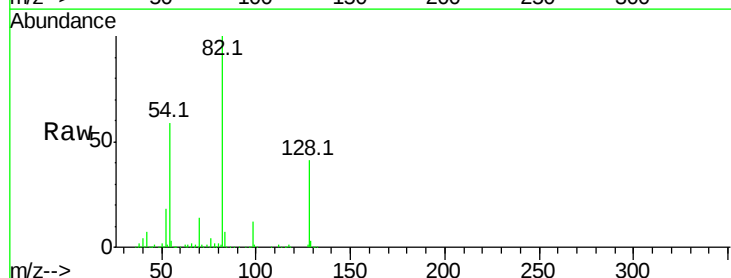
Ion Ratio Lower Upper

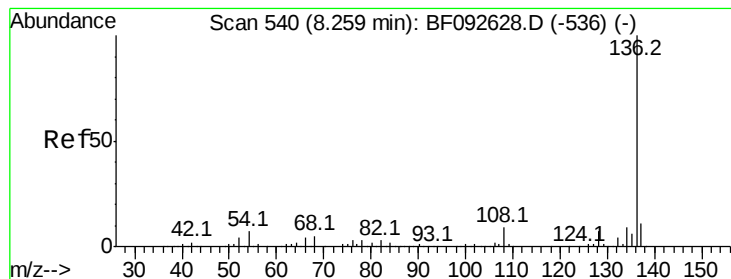
70 100

42 52.7 49.4 74.0

101 0.0 7.4 11.2#

130 2.4 14.2 21.4#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 531

Delta R.T. -0.01 min

Lab File: BF092944.D

Acq: 14 Feb 2017 15:20

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 599858

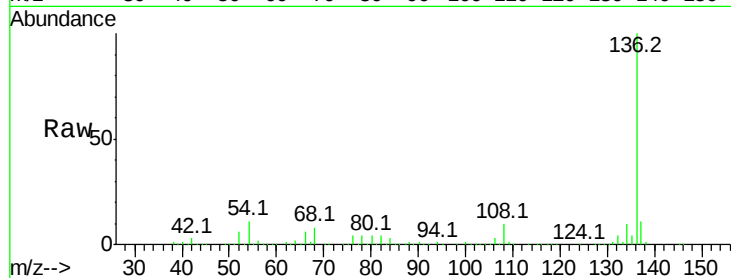
Ion Ratio Lower Upper

136 100

137 10.9 8.4 12.6

54 11.5 4.5 6.7#

68 7.6 3.6 5.4#

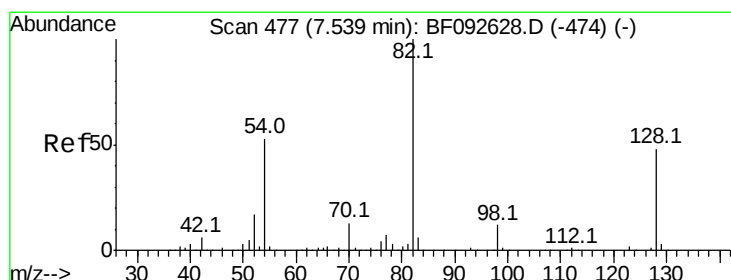
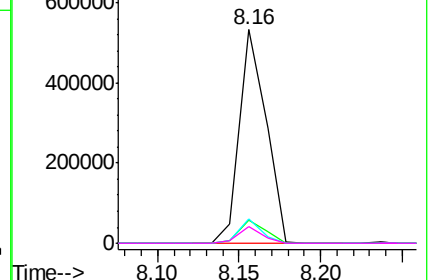
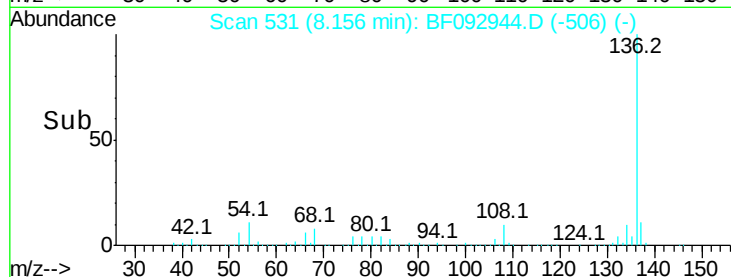


Abundance Ion 136.00 (135.70 to 136.70): E

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: 77.92 ng

RT: 7.44 min Scan# 468

Delta R.T. -0.02 min

Lab File: BF092944.D

Acq: 14 Feb 2017 15:20

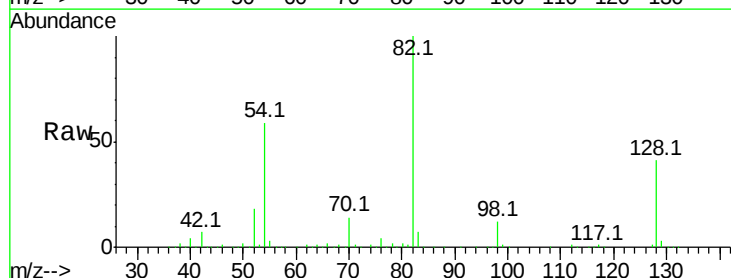
Tgt Ion: 82 Resp: 839311

Ion Ratio Lower Upper

82 100

128 40.9 34.6 52.0

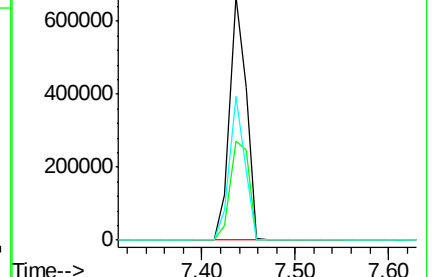
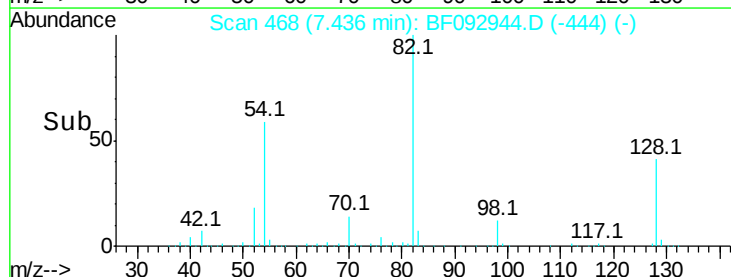
54 59.2 39.5 59.3

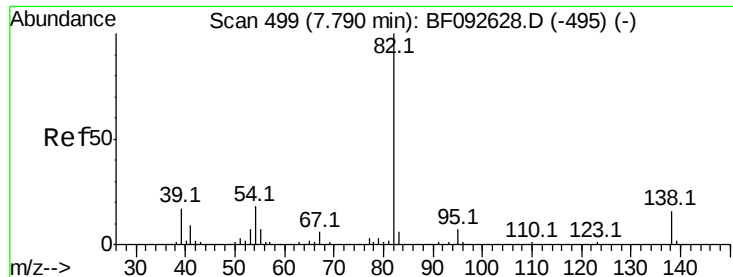


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

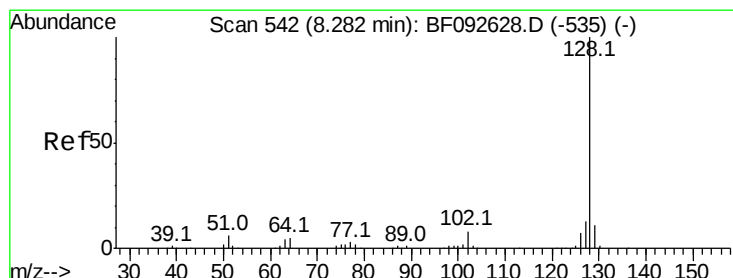
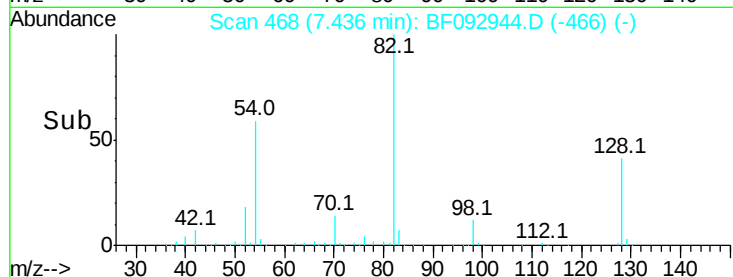
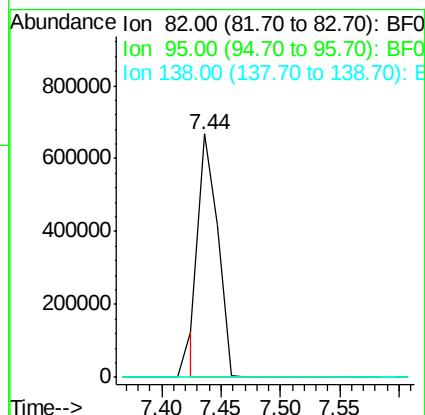
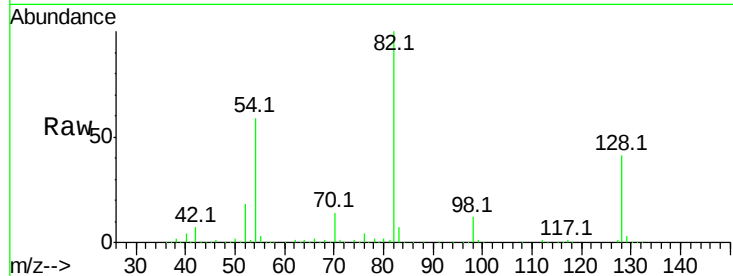




#25  
Isophorone  
Concen: 37.45 ng  
RT: 7.44 min Scan# 468  
Delta R.T. -0.27 min  
Lab File: BF092944.D  
Acq: 14 Feb 2017 15:20

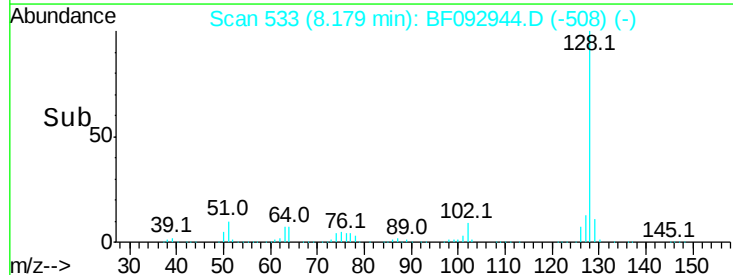
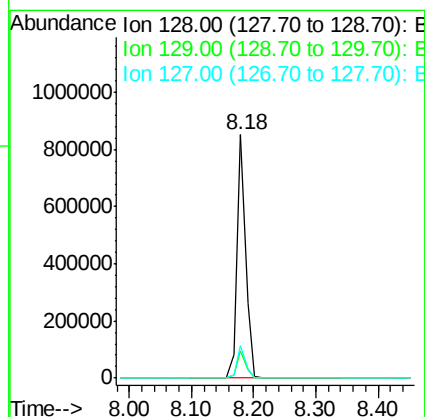
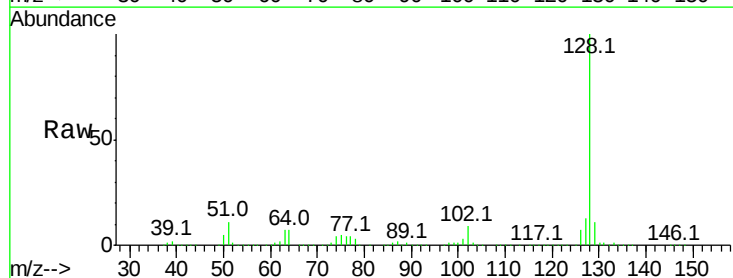
Instrument :  
BNA\_F  
ClientSampleId :

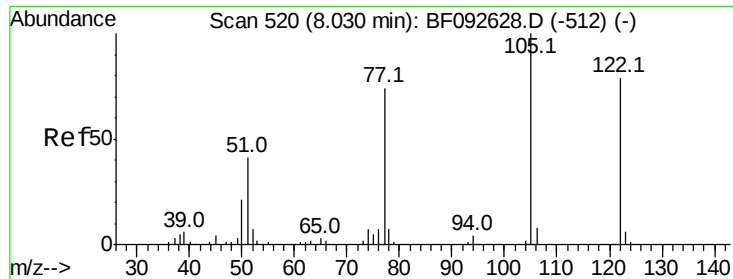
Tot Ion: 82 Resp: 751713  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.6 8.4#  
138 0.0 14.6 22.0#



#31  
Naphthalene  
Concen: 27.39 ng  
RT: 8.18 min Scan# 533  
Delta R.T. -0.01 min  
Lab File: BF092944.D  
Acq: 14 Feb 2017 15:20

Tgt Ion:128 Resp: 832926  
Ion Ratio Lower Upper  
128 100  
129 11.4 9.5 14.3  
127 13.3 10.8 16.2

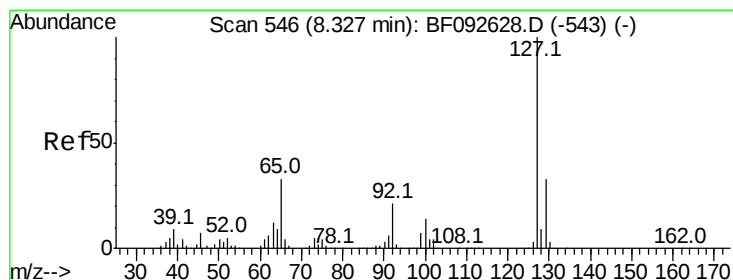
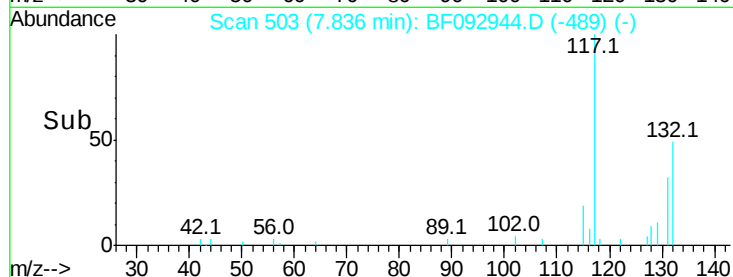
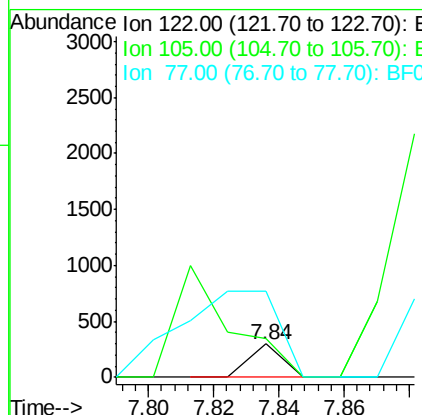
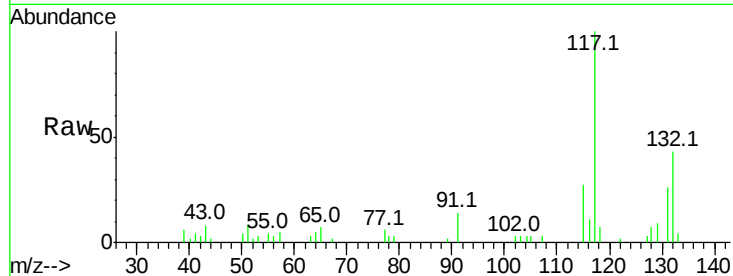




#32  
Benzoic acid  
Concen: 7.20 ng  
RT: 7.84 min Scan# 503  
Delta R.T. -0.14 min  
Lab File: BF092944.D  
Acq: 14 Feb 2017 15:20

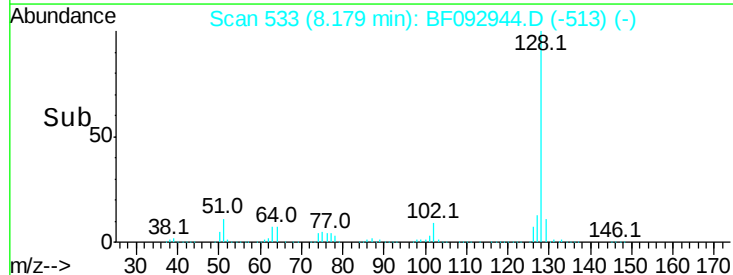
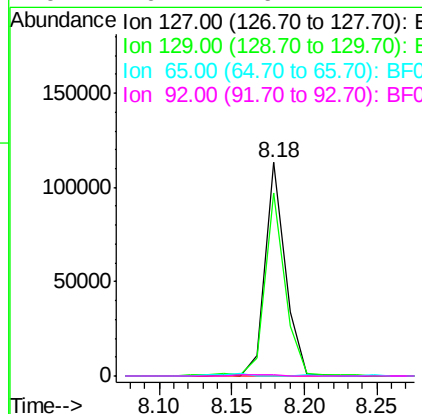
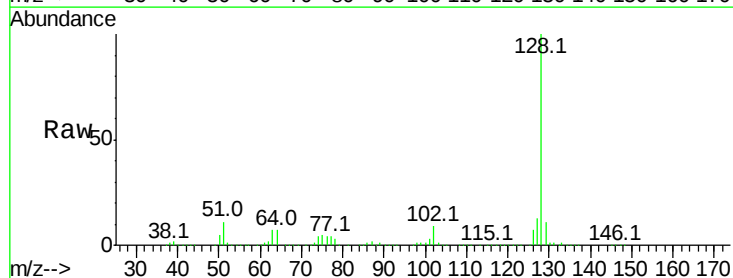
Instrument :  
BNA\_F  
ClientSampleId :

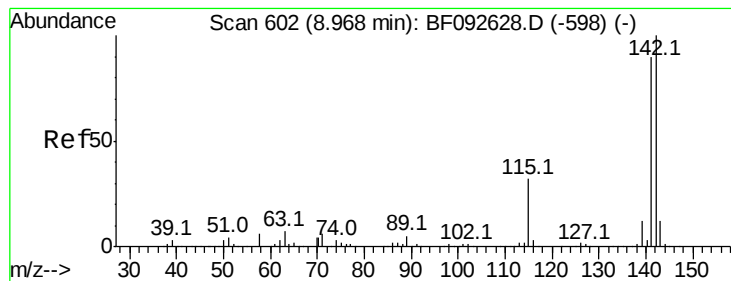
Tot Ion:122 Resp: 206  
Ion Ratio Lower Upper  
122 100  
105 116.3 107.2 147.2  
77 255.0 74.5 114.5#



#33  
4-Chloroaniline  
Concen: 9.23 ng  
RT: 8.18 min Scan# 533  
Delta R.T. -0.07 min  
Lab File: BF092944.D  
Acq: 14 Feb 2017 15:20

Tgt Ion:127 Resp: 110074  
Ion Ratio Lower Upper  
127 100  
129 85.6 26.3 39.5#  
65 0.0 25.8 38.8#  
92 0.7 16.1 24.1#





#37

2-Methylnaphthalene

Concen: 4.41 ng

RT: 8.97 min Scan# 602

Delta R.T. 0.08 min

Lab File: BF092944.D

Acq: 14 Feb 2017 15:20

Instrument :

BNA\_F

ClientSampleId :

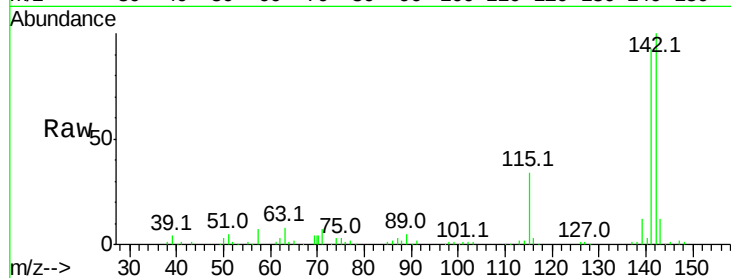
Tot Ion:142 Resp: 86162

Ion Ratio Lower Upper

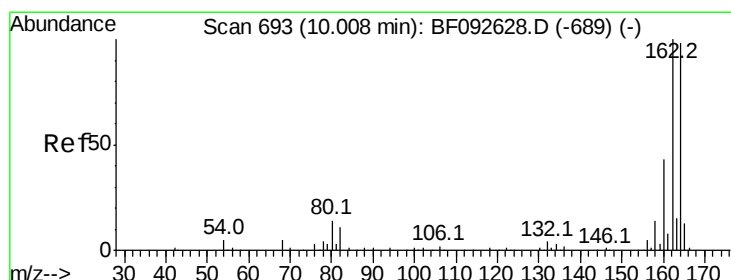
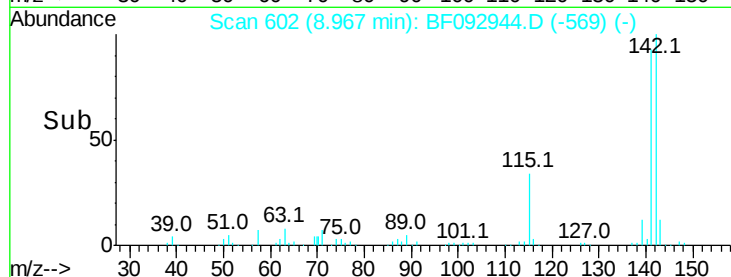
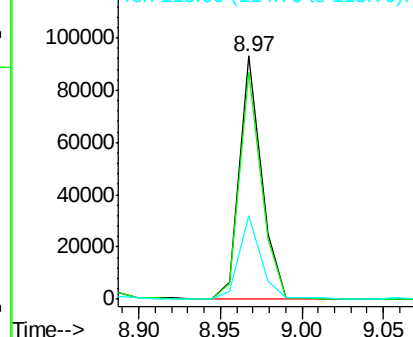
142 100

141 93.2 71.0 106.6

115 34.1 28.3 42.5



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.92 min Scan# 685

Delta R.T. -0.01 min

Lab File: BF092944.D

Acq: 14 Feb 2017 15:20

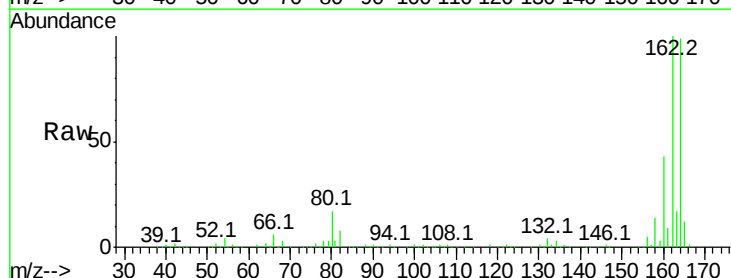
Tgt Ion:164 Resp: 363407

Ion Ratio Lower Upper

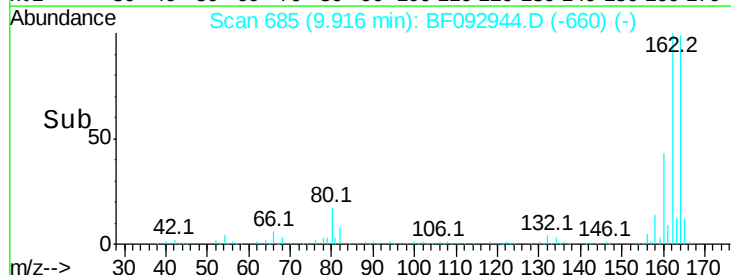
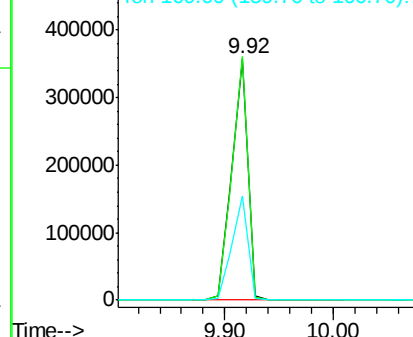
164 100

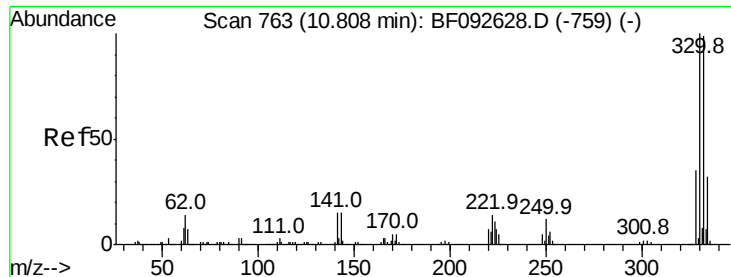
162 101.0 80.2 120.2

160 43.2 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

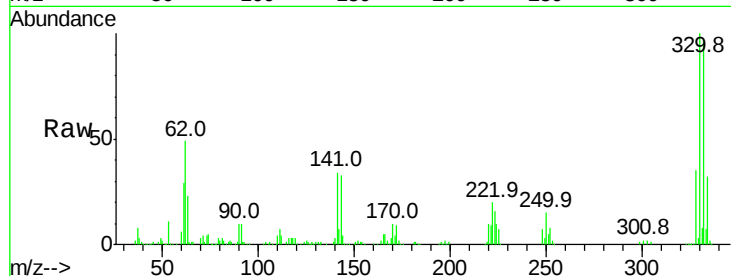




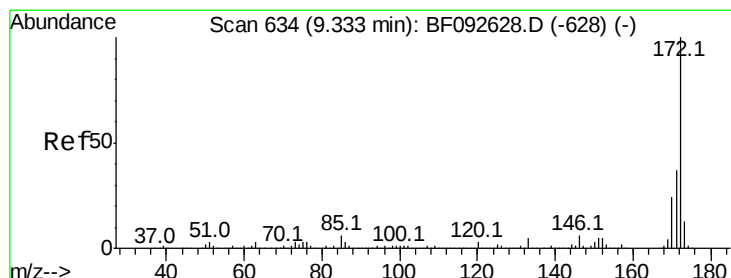
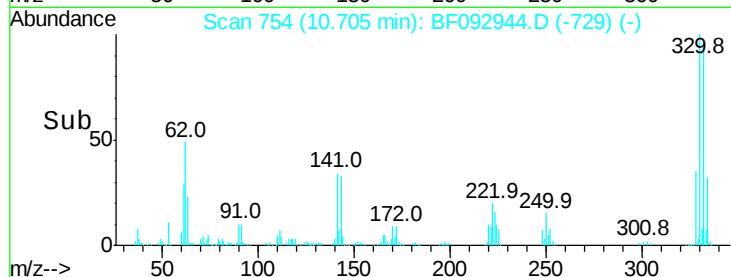
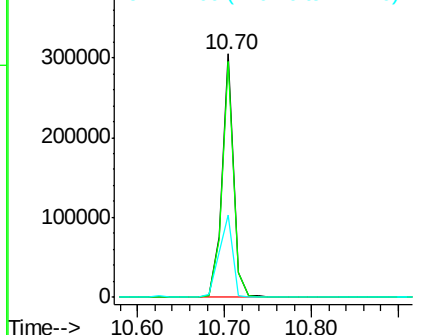
#41  
 2,4,6-Tribromophenol  
 Concen: 109.92 ng  
 RT: 10.70 min Scan# 754  
 Delta R.T. -0.01 min  
 Lab File: BF092944.D  
 Acq: 14 Feb 2017 15:20

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.7  | 77.4  | 116.2 |
| 141     | 40.3  | 34.1  | 51.1  |

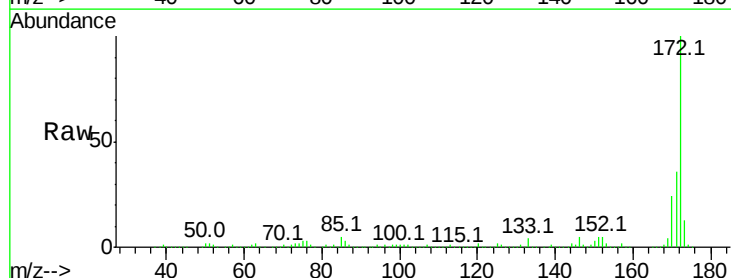


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

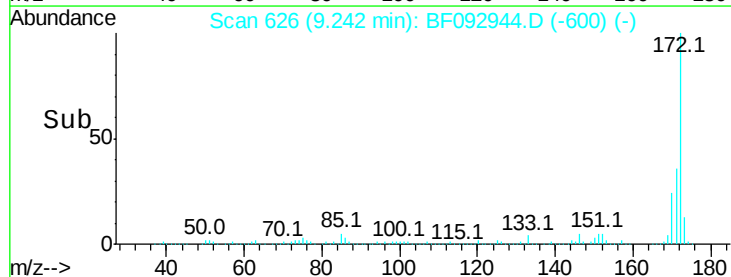
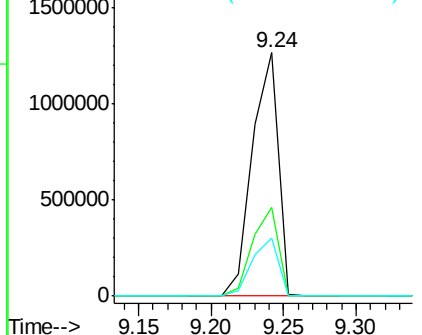


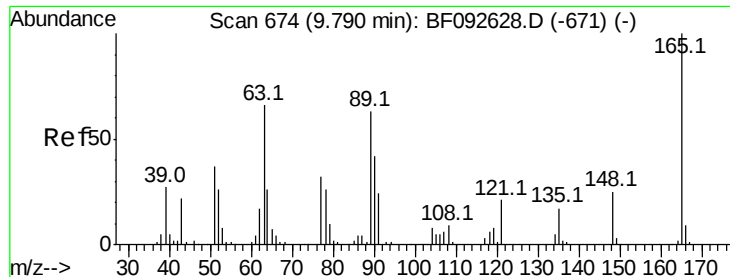
#44  
 2-Fluorobiphenyl  
 Concen: 78.38 ng  
 RT: 9.24 min Scan# 626  
 Delta R.T. -0.00 min  
 Lab File: BF092944.D  
 Acq: 14 Feb 2017 15:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.4  | 44.0  |
| 170     | 24.1  | 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





#50

2,6-Dinitrotoluene

Concen: 8.97 ng

RT: 9.92 min Scan# 685

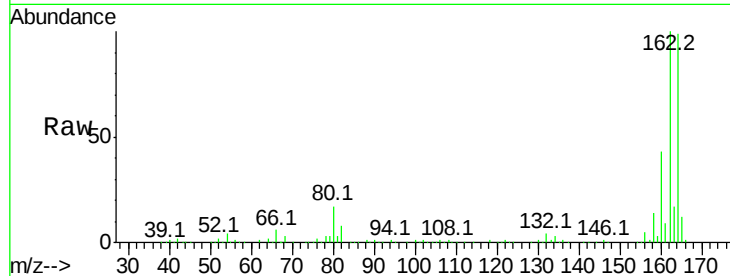
Delta R.T. 0.21 min

Lab File: BF092944.D

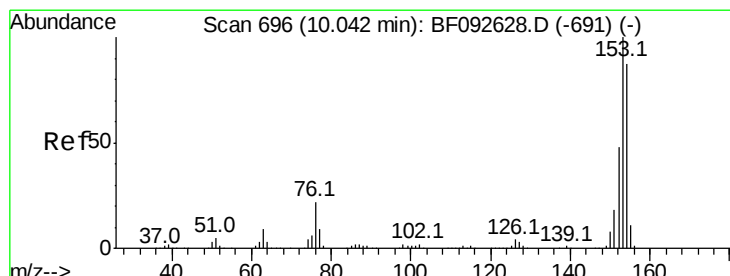
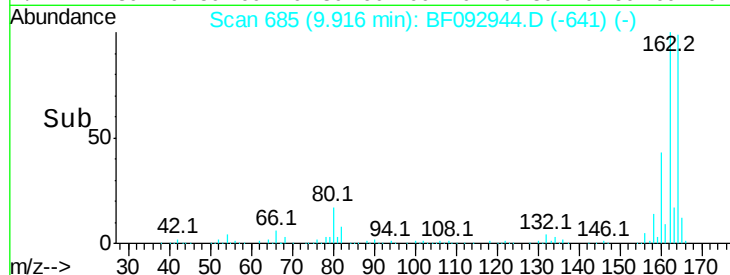
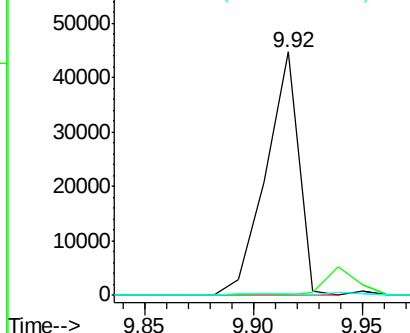
Acq: 14 Feb 2017 15:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:165 Resp: 47434  
Ion Ratio Lower Upper  
165 100  
63 0.0 36.2 54.4#  
89 0.7 40.2 60.4#



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



#51

Acenaphthene

Concen: 2.65 ng

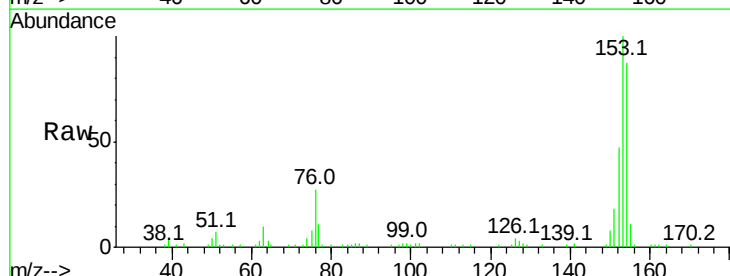
RT: 9.94 min Scan# 687

Delta R.T. -0.02 min

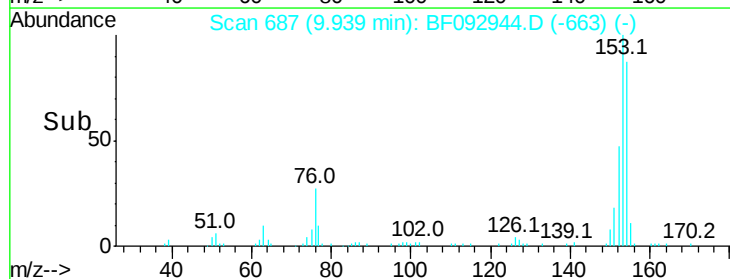
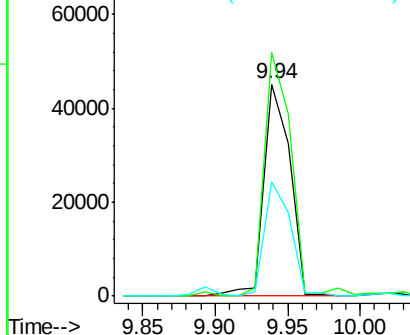
Lab File: BF092944.D

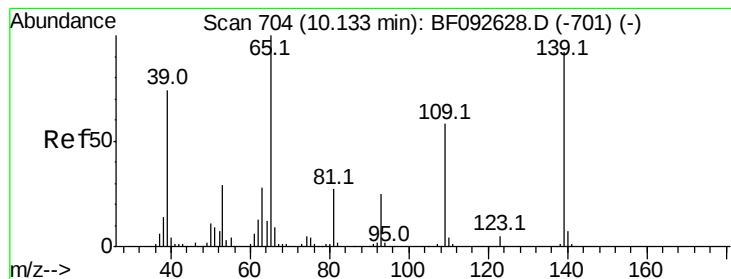
Acq: 14 Feb 2017 15:20

Tgt Ion:154 Resp: 56290  
Ion Ratio Lower Upper  
154 100  
153 115.0 88.6 133.0  
152 54.0 41.6 62.4



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E





#55

4-Nitrophenol

Concen: 4.11 ng

RT: 10.11 min Scan# 702

Delta R.T. 0.06 min

Lab File: BF092944.D

Acq: 14 Feb 2017 15:20

Instrument :

BNA\_F

ClientSampleId :

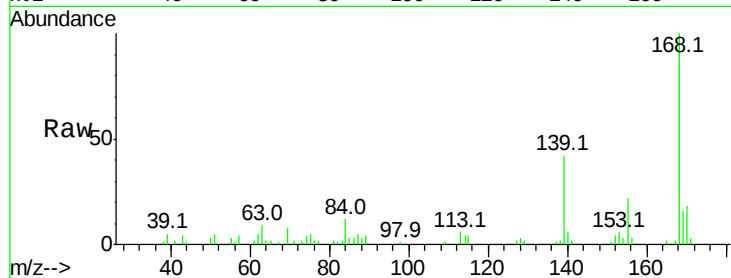
Tot Ion:139 Resp: 17910

Ion Ratio Lower Upper

139 100

109 2.4 52.2 92.2#

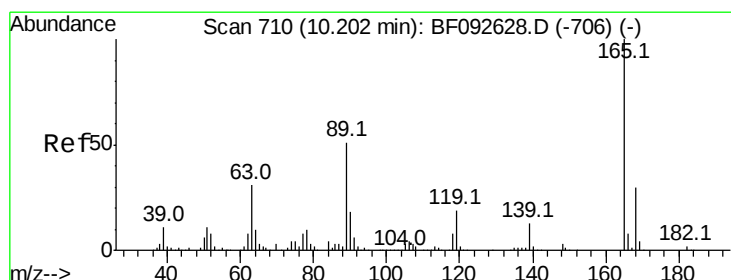
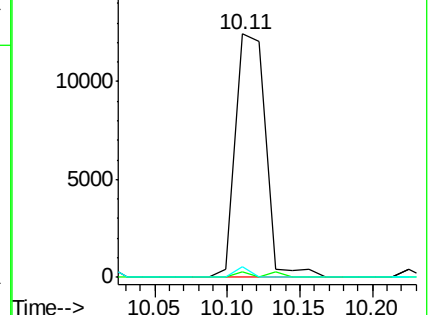
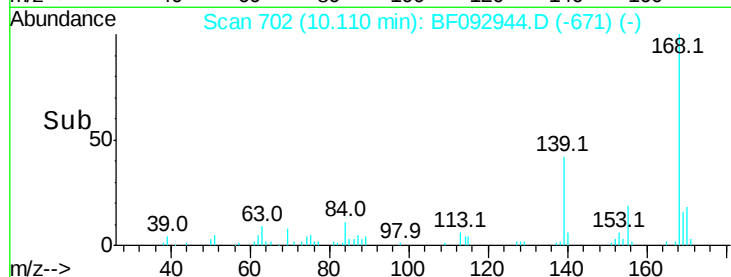
65 4.4 85.8 125.8#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#56

2,4-Dinitrotoluene

Concen: 6.74 ng

RT: 9.92 min Scan# 685

Delta R.T. -0.21 min

Lab File: BF092944.D

Acq: 14 Feb 2017 15:20

Tgt Ion:165 Resp: 47434

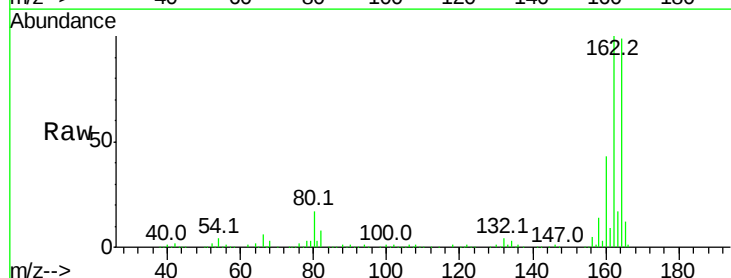
Ion Ratio Lower Upper

165 100

63 0.0 40.2 60.4#

89 0.7 62.5 93.7#

182 0.0 1.8 2.8#

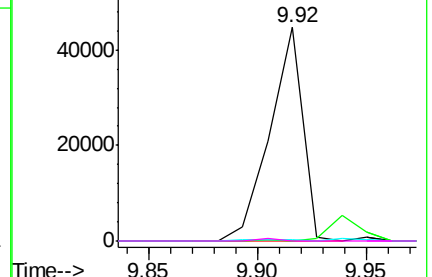
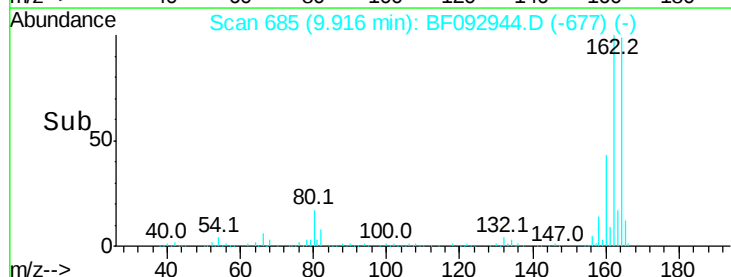


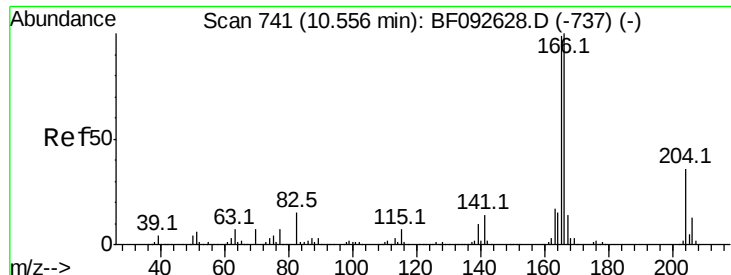
Abundance Ion 165.00 (164.70 to 165.70): E

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

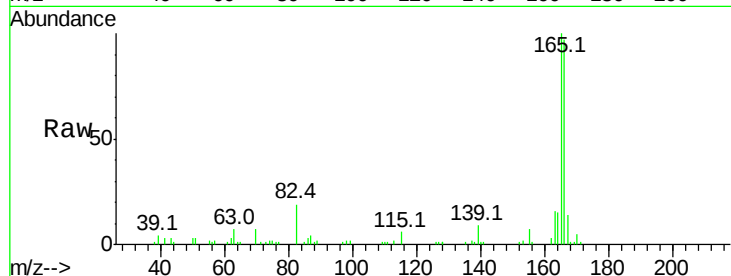




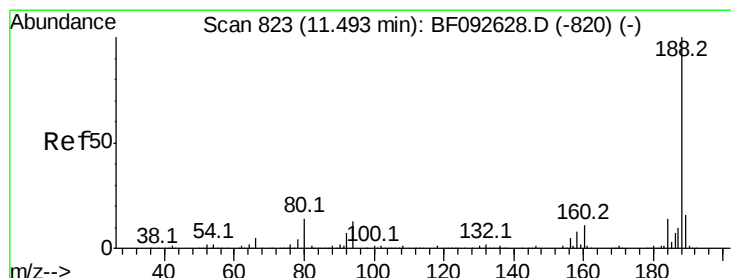
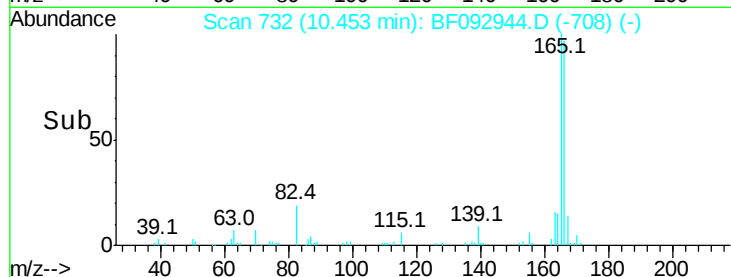
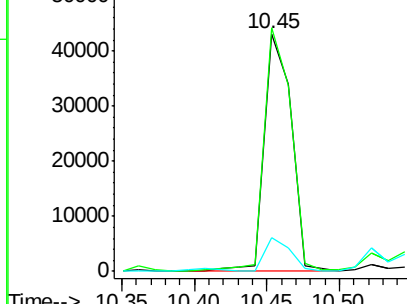
#57  
 Fluorene  
 Concen: 2.53 ng  
 RT: 10.45 min Scan# 732  
 Delta R.T. -0.02 min  
 Lab File: BF092944.D  
 Acq: 14 Feb 2017 15:20

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:166 Resp: 55421  
 Ion Ratio Lower Upper  
 166 100  
 165 102.6 77.8 116.8  
 167 14.2 10.8 16.2

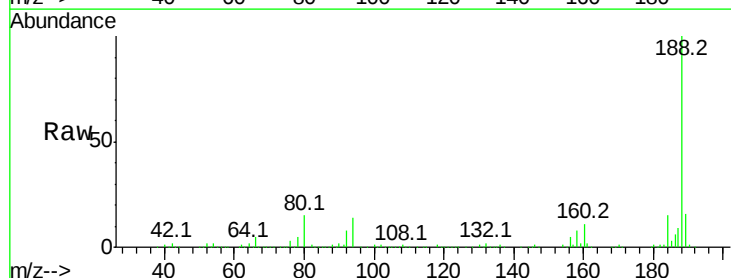


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

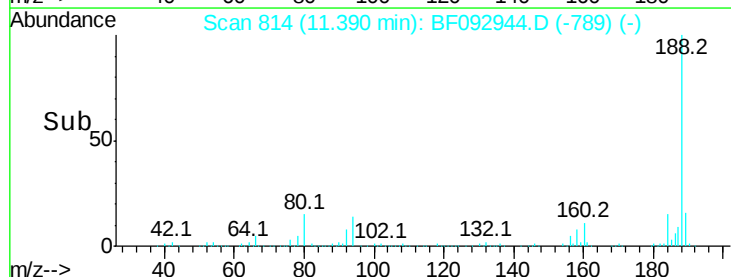
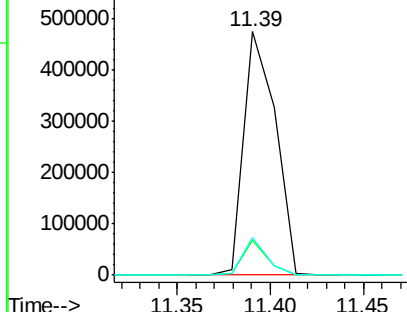


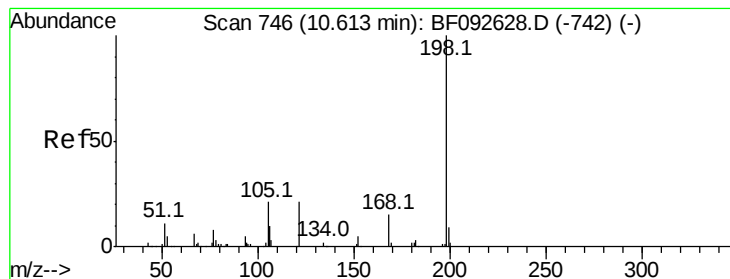
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.39 min Scan# 814  
 Delta R.T. -0.01 min  
 Lab File: BF092944.D  
 Acq: 14 Feb 2017 15:20

Tgt Ion:188 Resp: 562936  
 Ion Ratio Lower Upper  
 188 100  
 94 14.2 10.0 15.0  
 80 15.2 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





#64

4,6-Dinitro-2-methylphenol

Concen: 2.91 ng

RT: 10.70 min Scan# 754

Delta R.T. 0.17 min

Lab File: BF092944.D

Acq: 14 Feb 2017 15:20

Instrument :

BNA\_F

ClientSampleId :

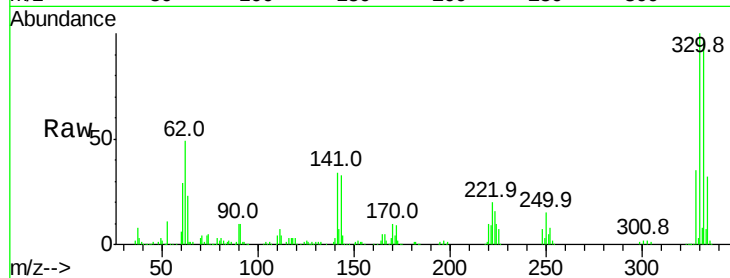
Tot Ion:198 Resp: 868

Ion Ratio Lower Upper

198 100

51 141.9 6.7 46.7#

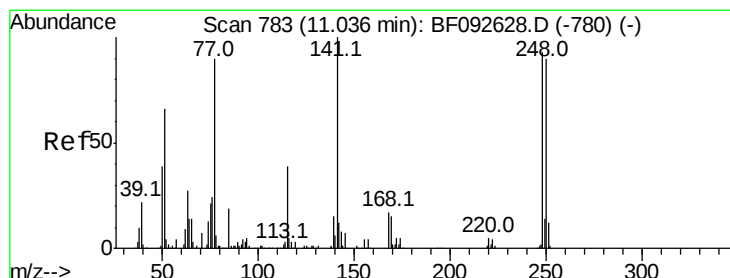
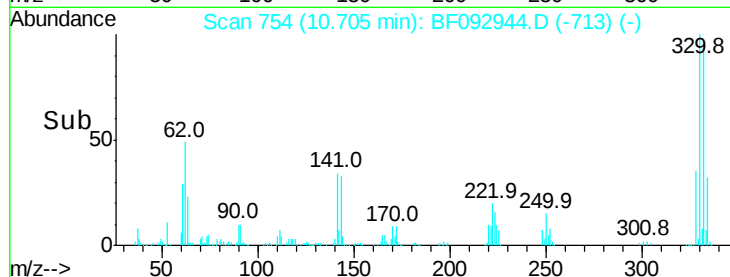
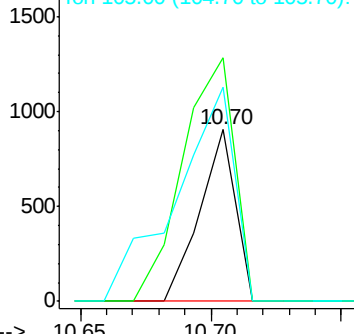
105 124.7 16.6 56.6#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.71 ng

RT: 10.70 min Scan# 754

Delta R.T. -0.25 min

Lab File: BF092944.D

Acq: 14 Feb 2017 15:20

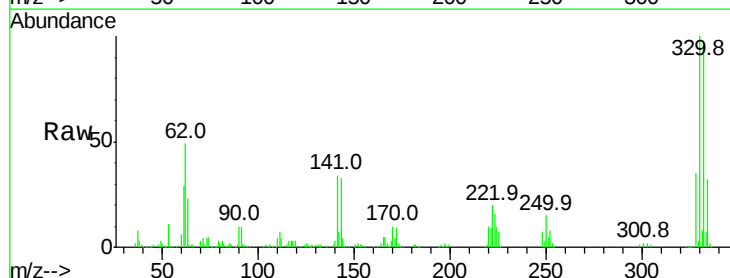
Tgt Ion:248 Resp: 21847

Ion Ratio Lower Upper

248 100

250 205.3 76.9 115.3#

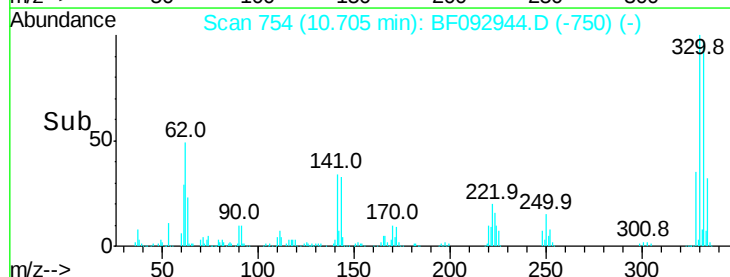
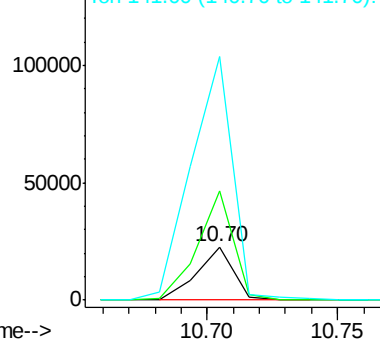
141 456.1 68.2 102.4#

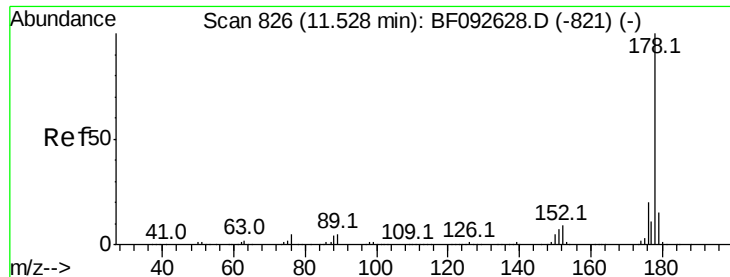


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

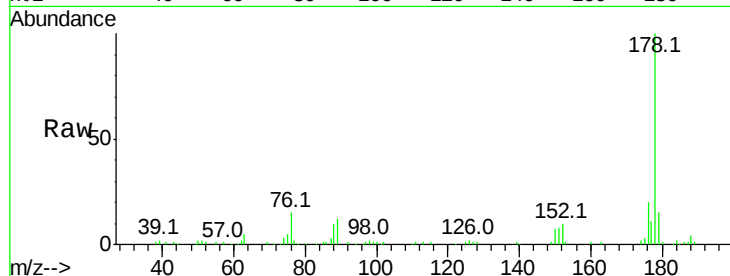




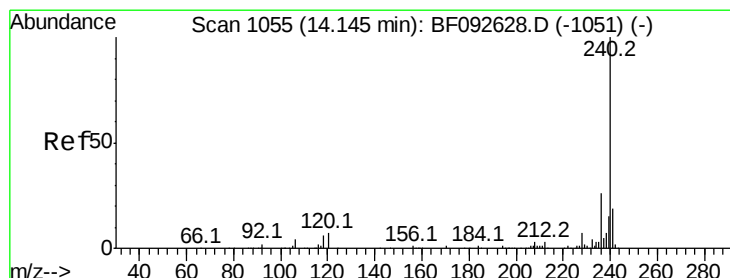
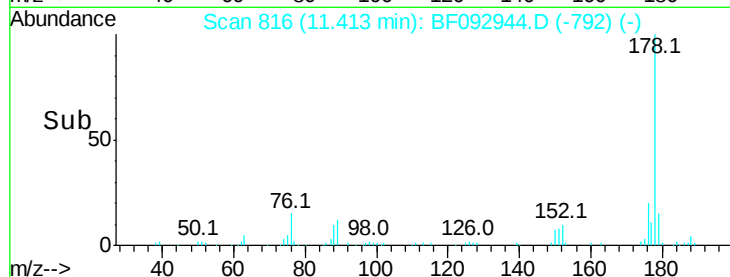
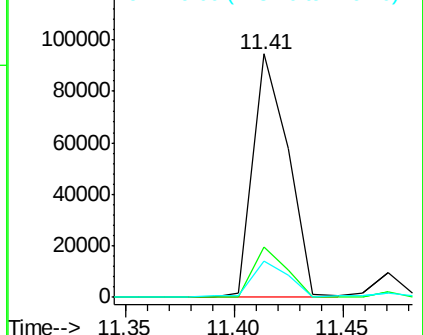
#70  
Phenanthrene  
Concen: 3.30 ng  
RT: 11.41 min Scan# 816  
Delta R.T. -0.02 min  
Lab File: BF092944.D  
Acq: 14 Feb 2017 15:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:178 Resp: 106379  
Ion Ratio Lower Upper  
178 100  
176 20.4 16.6 25.0  
179 15.1 12.8 19.2

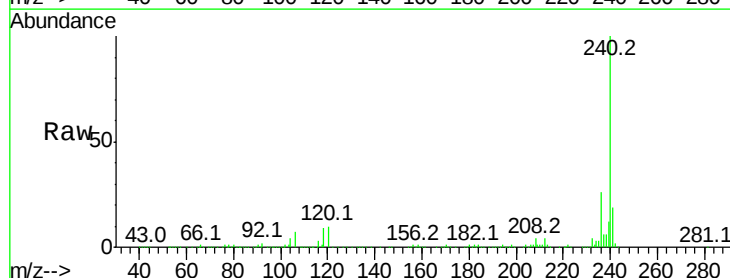


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

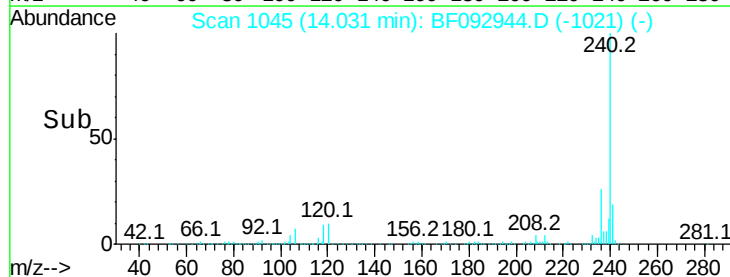
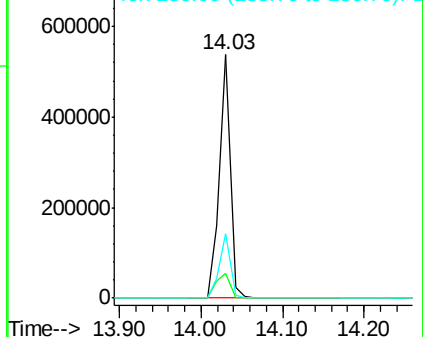


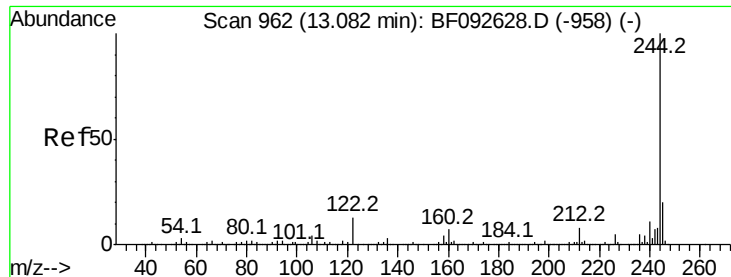
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.03 min Scan# 1045  
Delta R.T. -0.02 min  
Lab File: BF092944.D  
Acq: 14 Feb 2017 15:20

Tgt Ion:240 Resp: 501188  
Ion Ratio Lower Upper  
240 100  
120 10.4 12.9 19.3#  
236 26.2 20.9 31.3



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

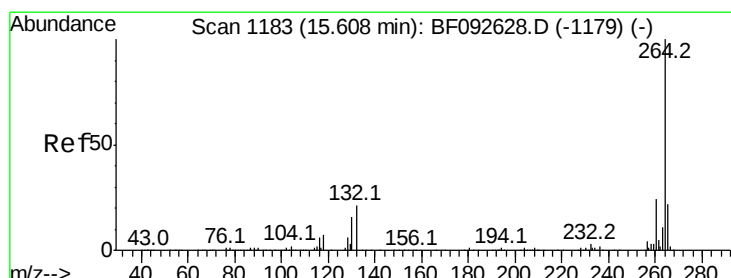
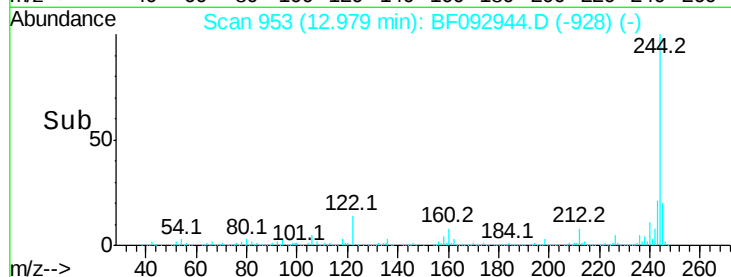
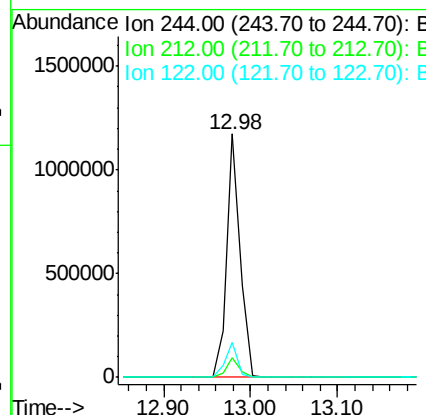
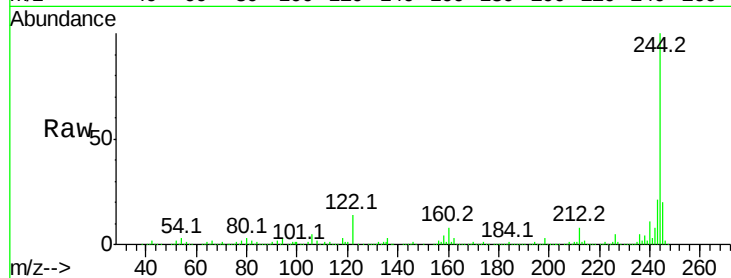




#78  
 Terphenyl-d14  
 Concen: 59.75 ng  
 RT: 12.98 min Scan# 953  
 Delta R.T. -0.01 min  
 Lab File: BF092944.D  
 Acq: 14 Feb 2017 15:20

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 1274522  
 Ion Ratio Lower Upper  
 244 100  
 212 7.9 6.2 9.2  
 122 14.3 11.4 17.2



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.46 min Scan# 1170  
 Delta R.T. -0.02 min  
 Lab File: BF092944.D  
 Acq: 14 Feb 2017 15:20

Tgt Ion:264 Resp: 366506  
 Ion Ratio Lower Upper  
 264 100  
 260 24.3 19.2 28.8  
 265 20.7 17.4 26.0

