

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071816\  
 Data File : BF089101.D  
 Acq On : 19 Jul 2016 00:40  
 Operator : UM/SJ  
 Sample : H4045-11  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 H10-B4(6-12)C

Quant Time: Jul 19 03:18:45 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 11 18:13:32 2016  
 Response via : Initial Calibration

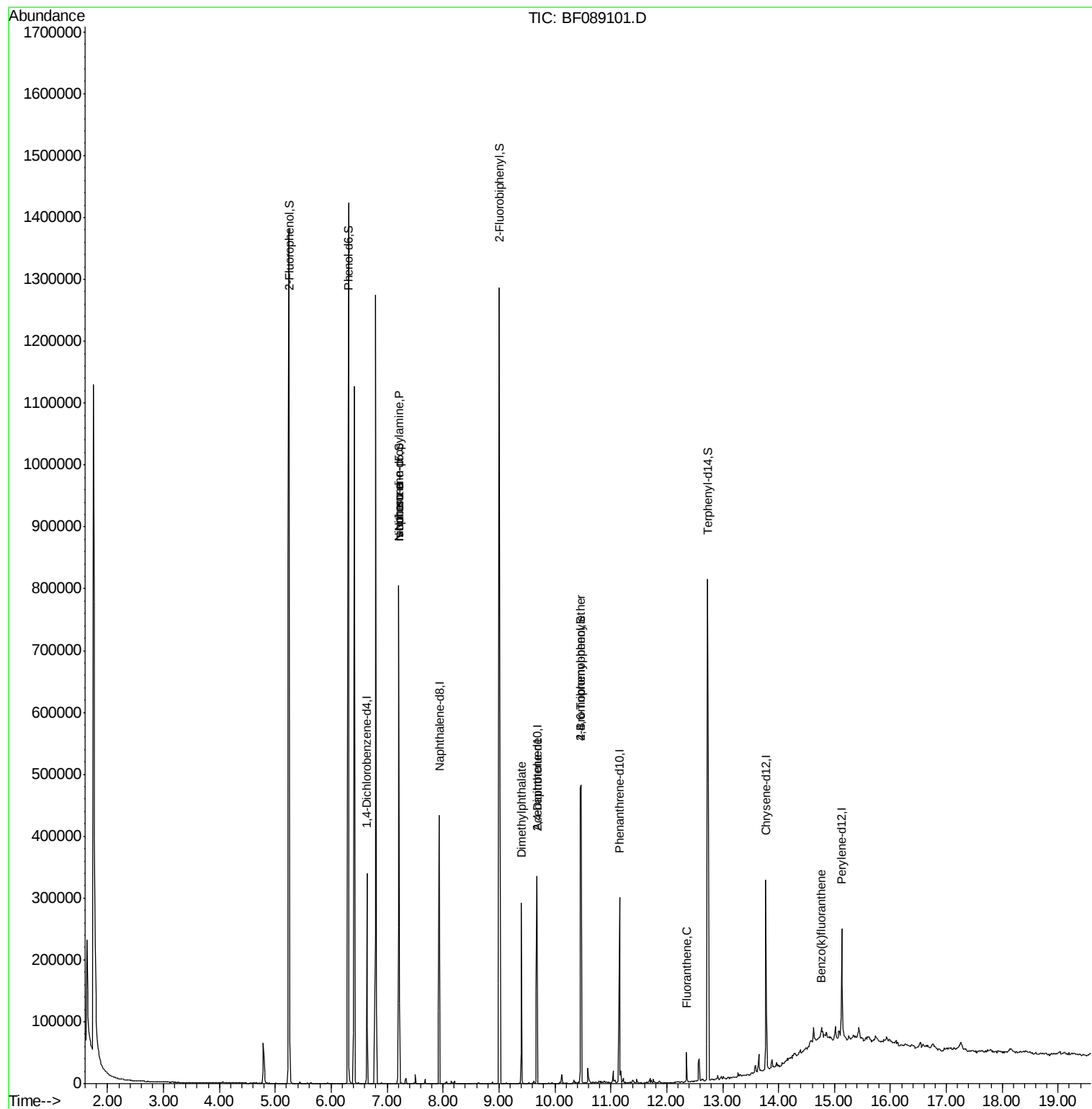
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.64  | 152  | 49390    | 20.00  | ng    | -0.07    |
| 21) Naphthalene-d8             | 7.93  | 136  | 192887   | 20.00  | ng    | -0.07    |
| 38) Acenaphthene-d10           | 9.68  | 164  | 72817    | 20.00  | ng    | -0.07    |
| 63) Phenanthrene-d10           | 11.15 | 188  | 120506   | 20.00  | ng    | -0.07    |
| 75) Chrysene-d12               | 13.77 | 240  | 93553    | 20.00  | ng    | -0.08    |
| 86) Perylene-d12               | 15.13 | 264  | 66358    | 20.00  | ng    | -0.08    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.24  | 112  | 456712   | 138.59 | ng    | -0.05    |
| 7) Phenol-d6                   | 6.31  | 99   | 592785   | 139.21 | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 7.21  | 82   | 290476   | 78.92  | ng    | -0.07    |
| 41) 2,4,6-Tribromophenol       | 10.47 | 330  | 81377    | 120.35 | ng    | -0.07    |
| 44) 2-Fluorobiphenyl           | 9.00  | 172  | 447180   | 97.00  | ng    | -0.07    |
| 78) Terphenyl-d14              | 12.73 | 244  | 293543   | 69.89  | ng    | -0.07    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 7.21  | 70   | 39652    | 13.86  | ng    | # 75     |
| 25) Isophorone                 | 7.21  | 82   | 226381   | 33.20  | ng    | # 65     |
| 49) Dimethylphthalate          | 9.40  | 163  | 109371   | 21.08  | ng    | 98       |
| 56) 2,4-Dinitrotoluene         | 9.68  | 165  | 9260     | 6.16   | ng    | # 36     |
| 66) 4-Bromophenyl-phenylether  | 10.47 | 248  | 5869     | 4.83   | ng    | # 1      |
| 74) Fluoranthene               | 12.35 | 202  | 17956    | 2.69   | ng    | 97       |
| 88) Benzo(k)fluoranthene       | 14.77 | 252  | 8107     | 2.24   | ng    | # 80     |

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

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.64 min Scan# 442

Delta R.T. -0.07 min

Lab File: BF089101.D

Acq: 19 Jul 2016 00:40

Instrument :

BNA\_F

ClientSampleId :

H10-B4(6-12)C

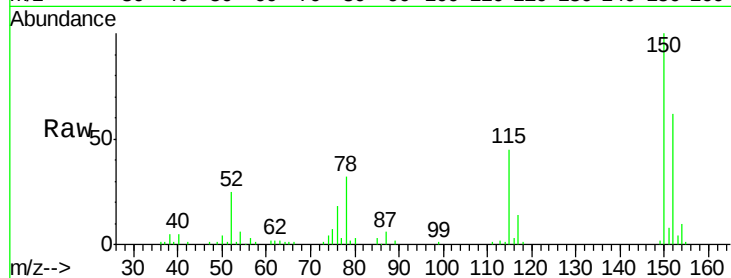
Tgt Ion:152 Resp: 49390

Ion Ratio Lower Upper

152 100

150 161.8 123.8 185.6

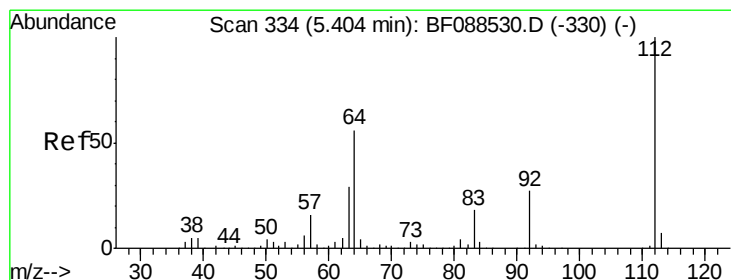
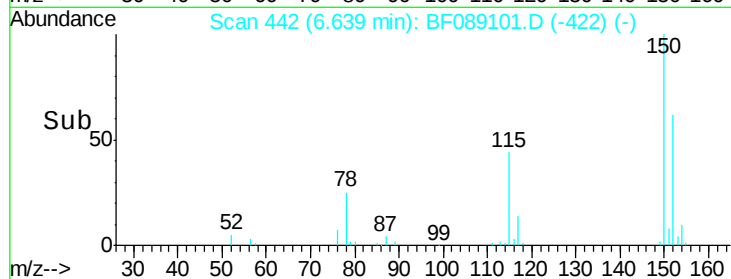
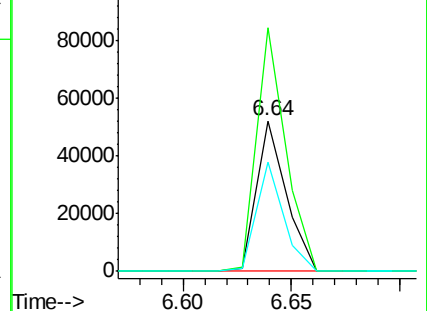
115 72.6 39.6 59.4#



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: 138.59 ng

RT: 5.24 min Scan# 320

Delta R.T. -0.05 min

Lab File: BF089101.D

Acq: 19 Jul 2016 00:40

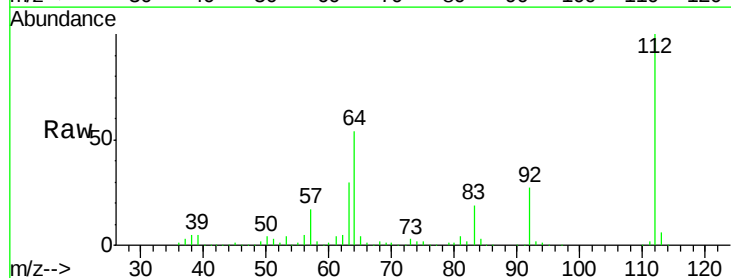
Tgt Ion:112 Resp: 456712

Ion Ratio Lower Upper

112 100

64 54.4 42.2 63.2

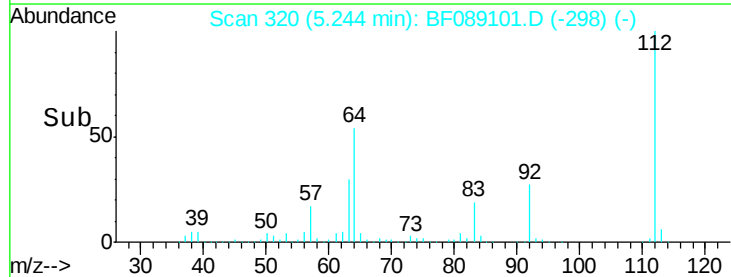
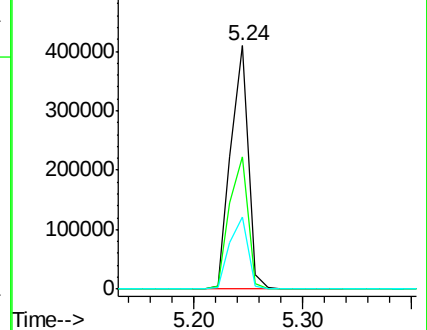
63 29.5 21.8 32.8



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: 139.21 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.05 min

Lab File: BF089101.D

Acq: 19 Jul 2016 00:40

Instrument :

BNA\_F

ClientSampleId :

H10-B4(6-12)C

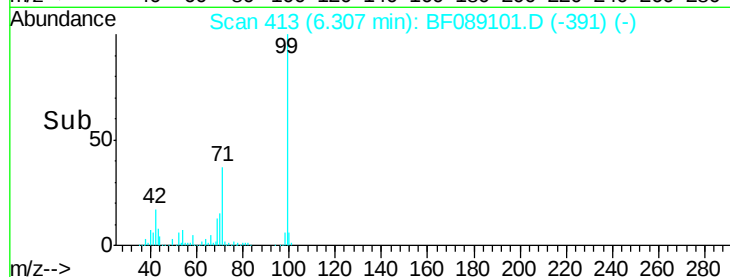
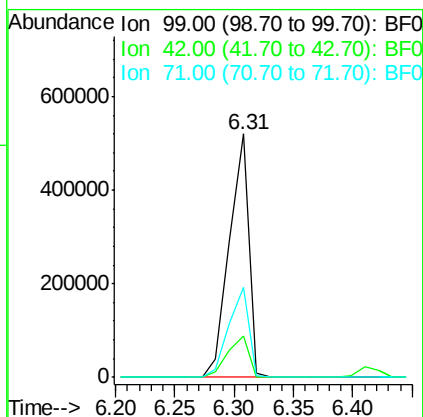
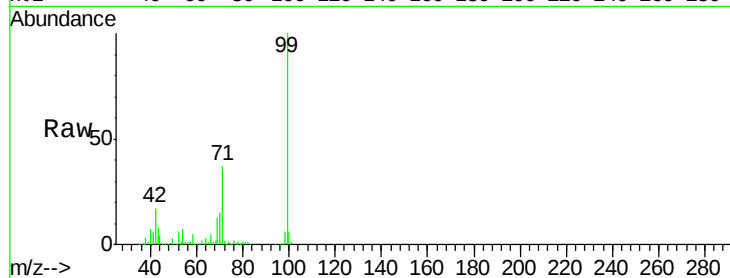
Tgt Ion: 99 Resp: 592785

Ion Ratio Lower Upper

99 100

42 16.8 12.2 18.2

71 36.9 23.4 35.0#



#19

n-Nitroso-di-n-propylamine

Concen: 13.86 ng

RT: 7.21 min Scan# 492

Delta R.T. 0.07 min

Lab File: BF089101.D

Acq: 19 Jul 2016 00:40

Tgt Ion: 70 Resp: 39652

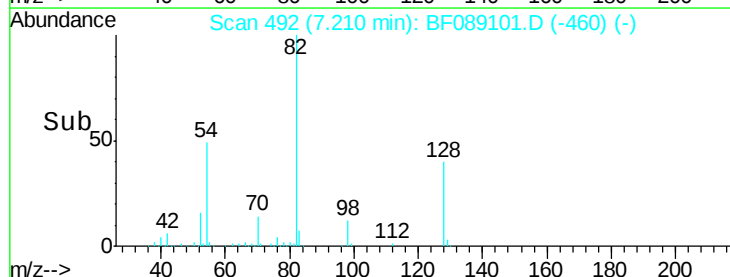
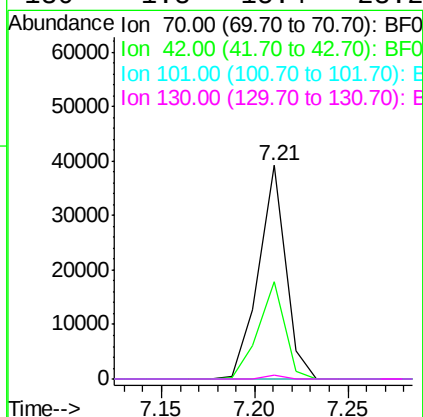
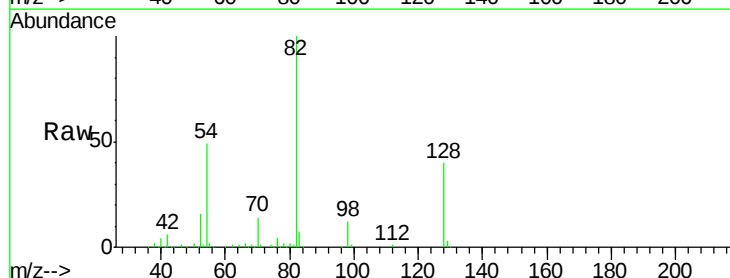
Ion Ratio Lower Upper

70 100

42 45.5 49.6 74.4#

101 0.0 7.1 10.7#

130 1.8 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.93 min Scan# 555

Delta R.T. -0.07 min

Lab File: BF089101.D

Acq: 19 Jul 2016 00:40

Instrument :

BNA\_F

ClientSampleId :

H10-B4(6-12)C

Tgt Ion:136 Resp: 192887

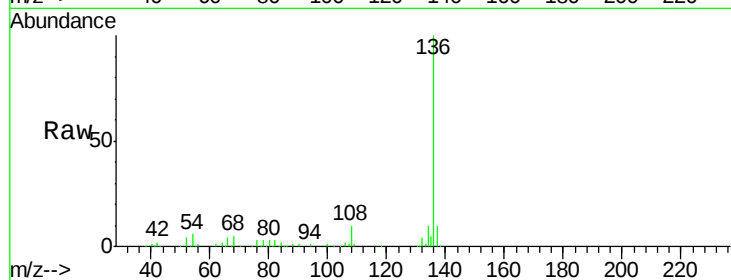
Ion Ratio Lower Upper

136 100

137 10.4 9.1 13.7

54 6.1 6.6 10.0#

68 4.8 5.1 7.7#

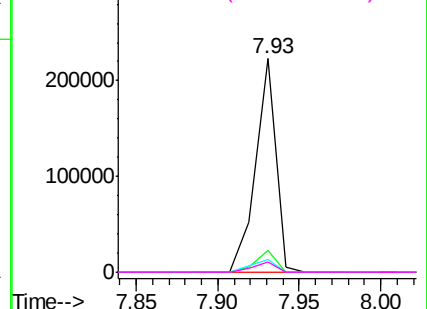
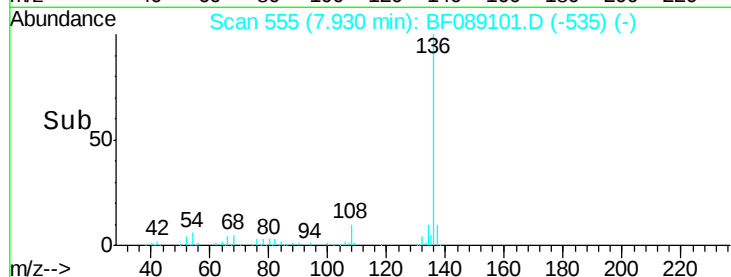


Abundance Ion 136.00 (135.70 to 136.70): E

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: 78.92 ng

RT: 7.21 min Scan# 492

Delta R.T. -0.07 min

Lab File: BF089101.D

Acq: 19 Jul 2016 00:40

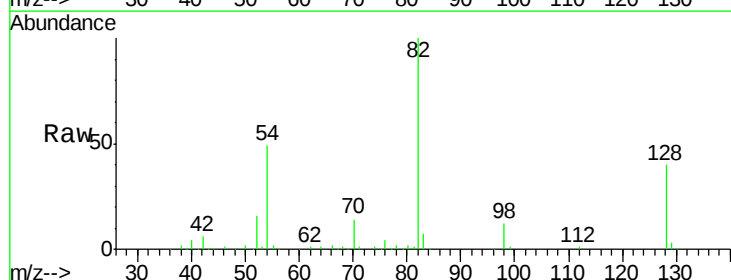
Tgt Ion: 82 Resp: 290476

Ion Ratio Lower Upper

82 100

128 39.8 35.9 53.9

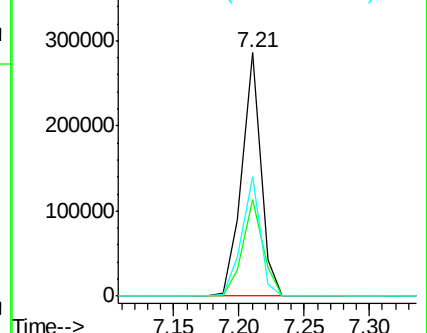
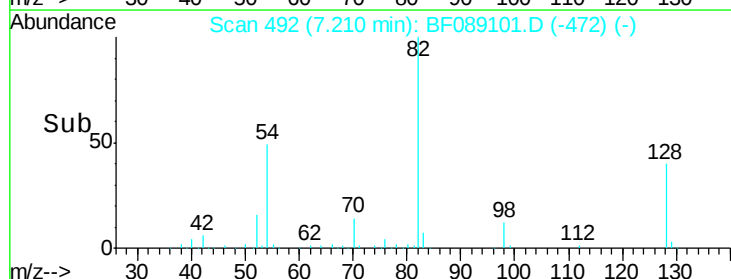
54 48.8 40.9 61.3

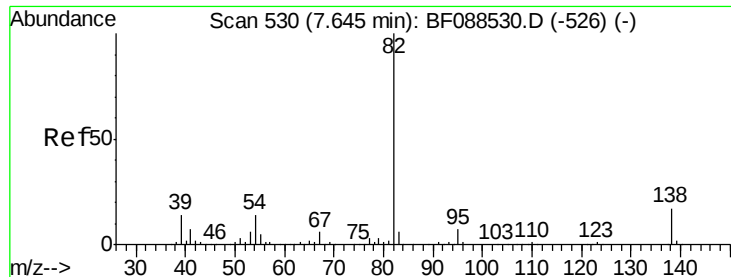


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

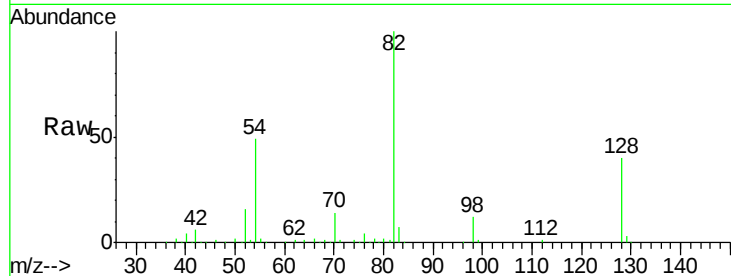




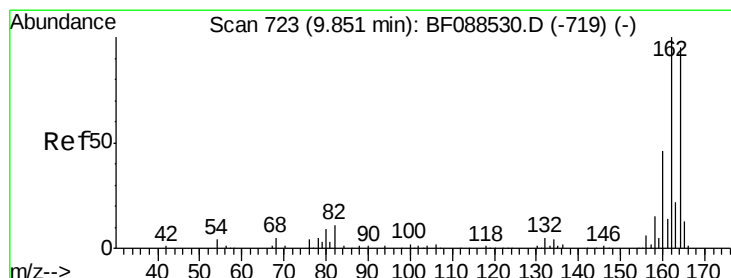
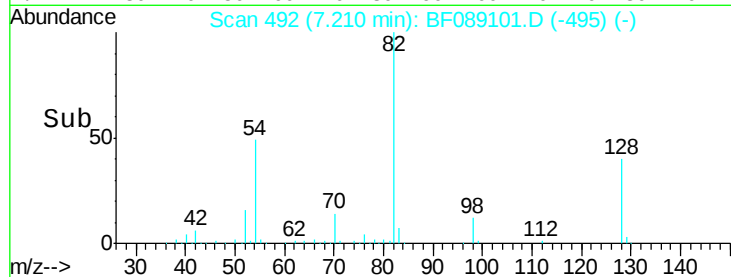
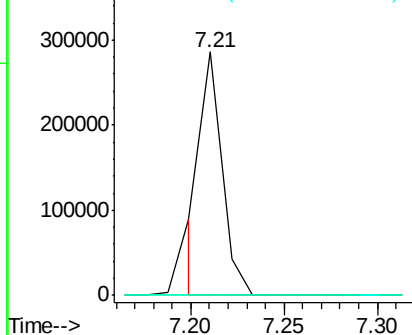
#25  
Isophorone  
Concen: 33.20 ng  
RT: 7.21 min Scan# 492  
Delta R.T. -0.33 min  
Lab File: BF089101.D  
Acq: 19 Jul 2016 00:40

Instrument :  
BNA\_F  
ClientSampleId :  
H10-B4(6-12)C

Tgt Ion: 82 Resp: 226381  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.4 8.2#  
138 0.0 14.6 21.8#

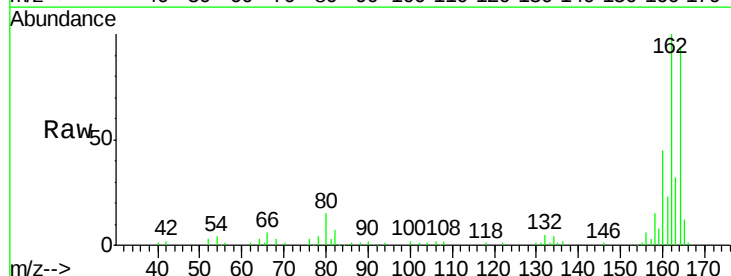


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): E

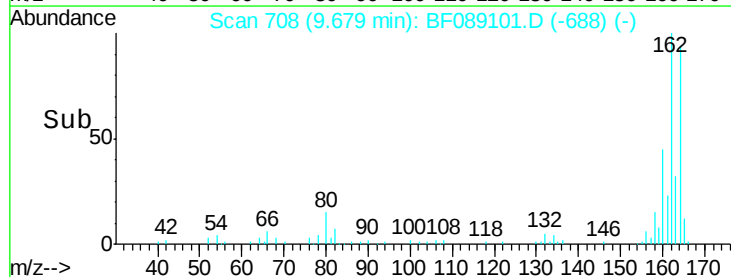
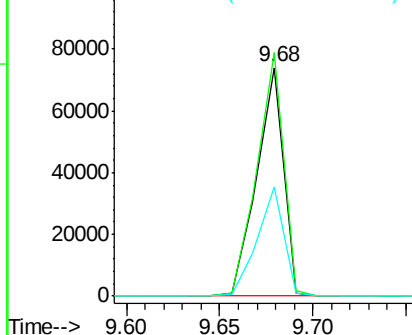


#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.68 min Scan# 708  
Delta R.T. -0.07 min  
Lab File: BF089101.D  
Acq: 19 Jul 2016 00:40

Tgt Ion: 164 Resp: 72817  
Ion Ratio Lower Upper  
164 100  
162 106.4 85.4 128.2  
160 47.6 39.5 59.3



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

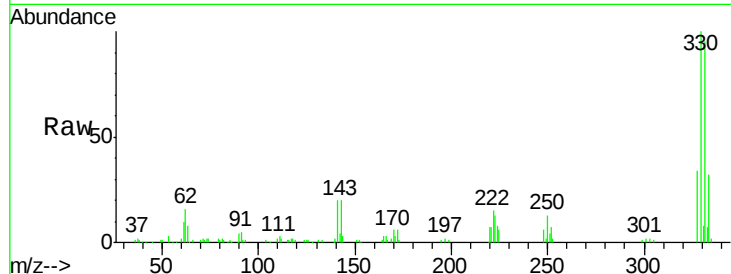




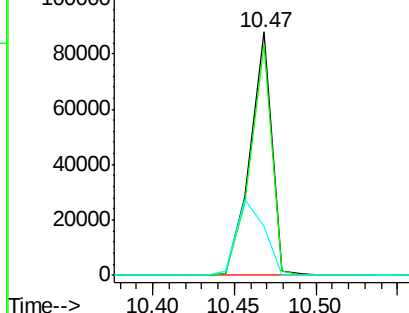
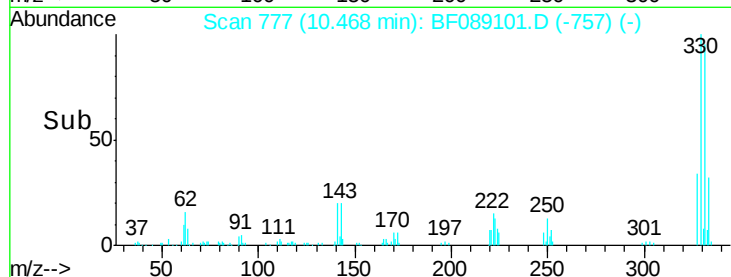
#41  
 2,4,6-Tribromophenol  
 Concen: 120.35 ng  
 RT: 10.47 min Scan# 777  
 Delta R.T. -0.07 min  
 Lab File: BF089101.D  
 Acq: 19 Jul 2016 00:40

Instrument :  
 BNA\_F  
 ClientSampleId :  
 H10-B4(6-12)C

Tgt Ion:330 Resp: 81377  
 Ion Ratio Lower Upper  
 330 100  
 332 94.1 0.0 0.0#  
 141 39.5 0.0 0.0#

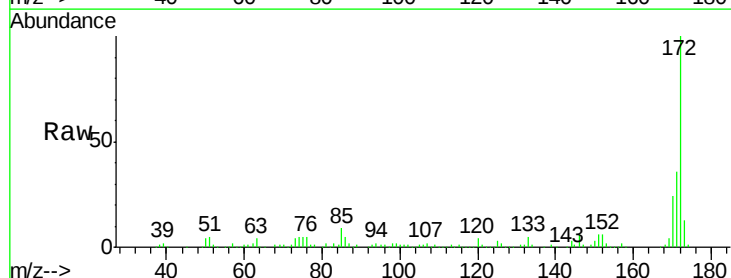


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

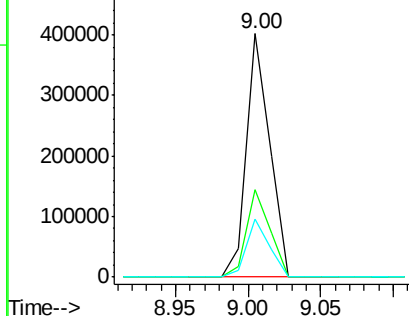
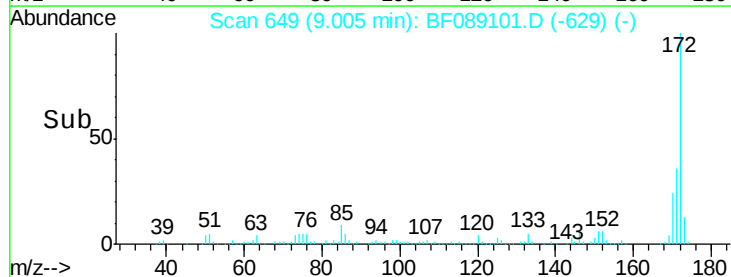


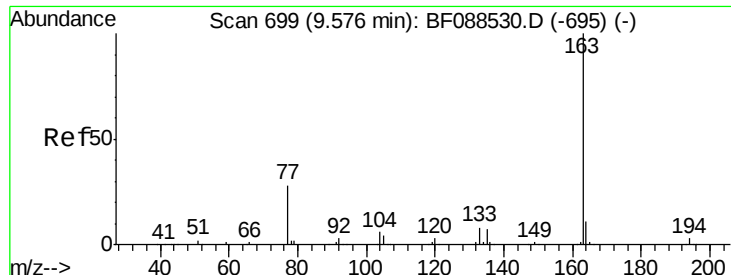
#44  
 2-Fluorobiphenyl  
 Concen: 97.00 ng  
 RT: 9.00 min Scan# 649  
 Delta R.T. -0.07 min  
 Lab File: BF089101.D  
 Acq: 19 Jul 2016 00:40

Tgt Ion:172 Resp: 447180  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 28.6 43.0  
 170 23.9 19.2 28.8



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 21.08 ng

RT: 9.40 min Scan# 684

Delta R.T. -0.08 min

Lab File: BF089101.D

Acq: 19 Jul 2016 00:40

Instrument :

BNA\_F

ClientSampleId :

H10-B4(6-12)C

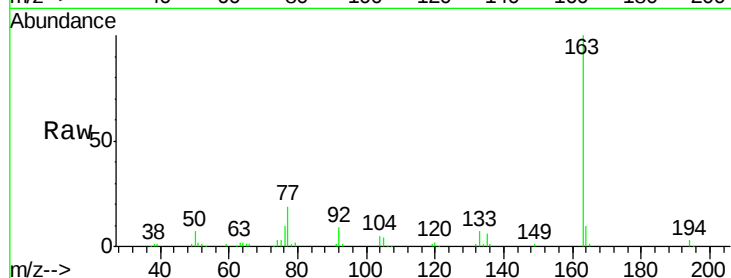
Tgt Ion:163 Resp: 109371

Ion Ratio Lower Upper

163 100

194 3.2 2.8 4.2

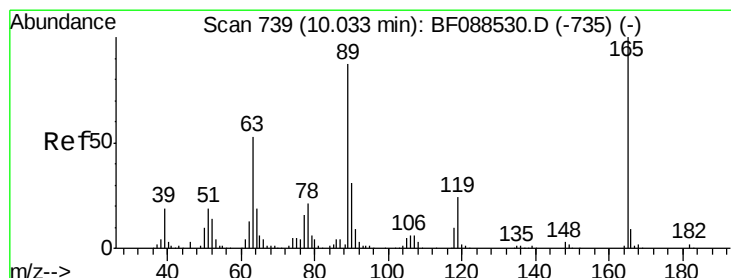
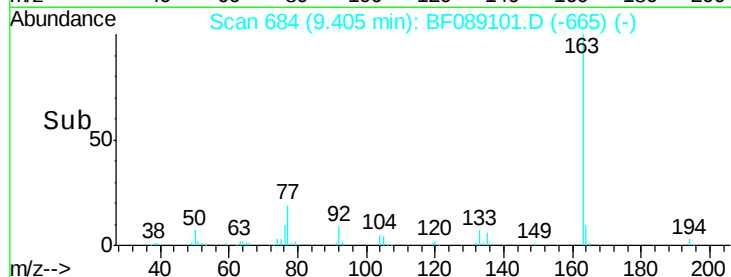
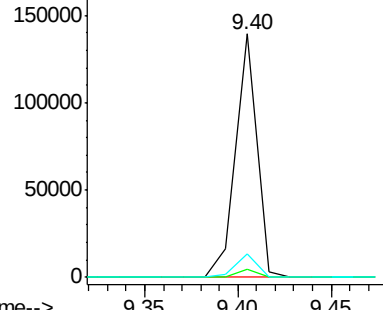
164 9.7 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

2,4-Dinitrotoluene

Concen: 6.16 ng

RT: 9.68 min Scan# 708

Delta R.T. -0.26 min

Lab File: BF089101.D

Acq: 19 Jul 2016 00:40

Tgt Ion:165 Resp: 9260

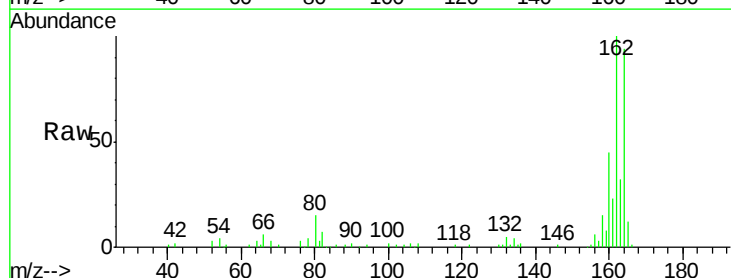
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 0.0 41.1 61.7#

182 0.0 2.0 3.0#

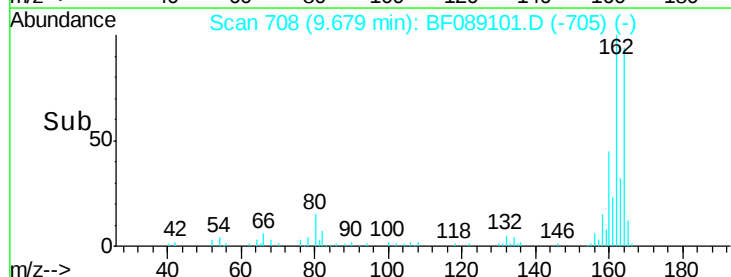
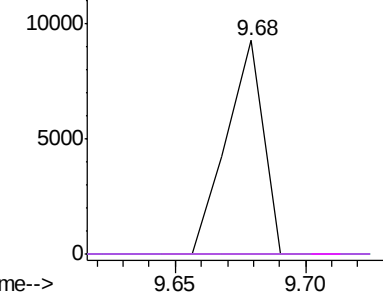


Abundance Ion 165.00 (164.70 to 165.70): E

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

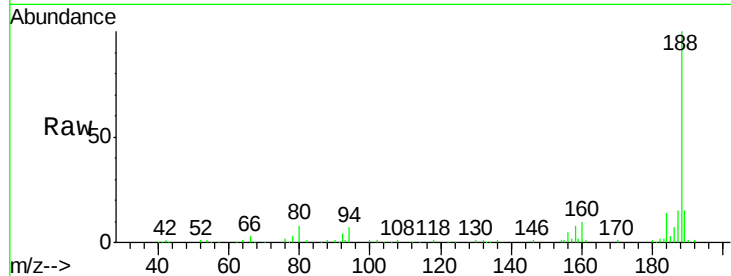




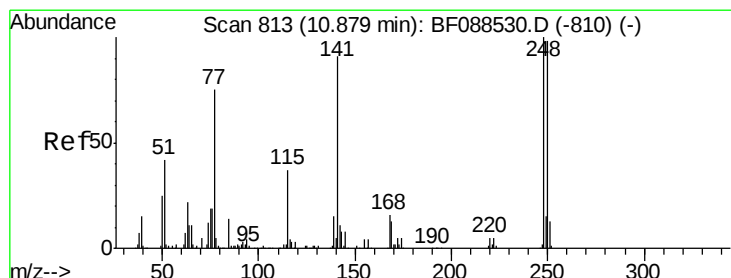
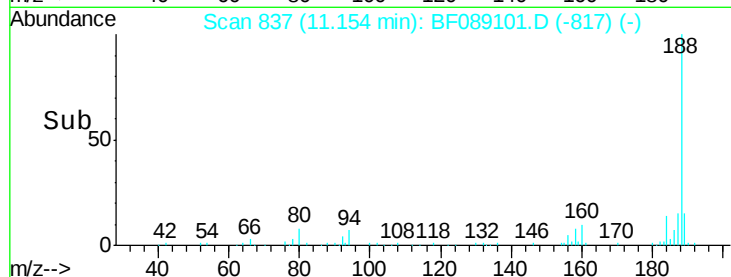
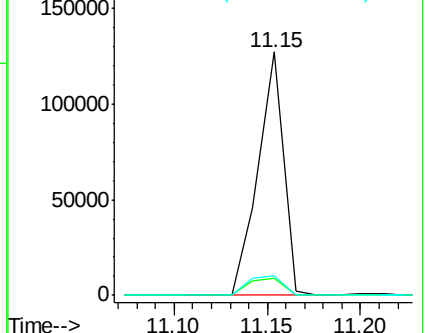
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.15 min Scan# 837  
Delta R.T. -0.07 min  
Lab File: BF089101.D  
Acq: 19 Jul 2016 00:40

Instrument :  
BNA\_F  
ClientSampleId :  
H10-B4(6-12)C

Tgt Ion:188 Resp: 120506  
Ion Ratio Lower Upper  
188 100  
94 7.3 9.0 13.6#  
80 7.8 10.0 15.0#

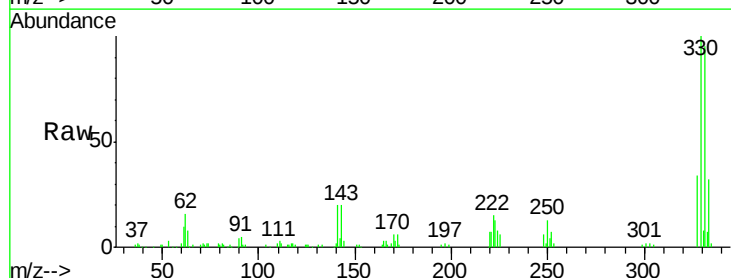


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

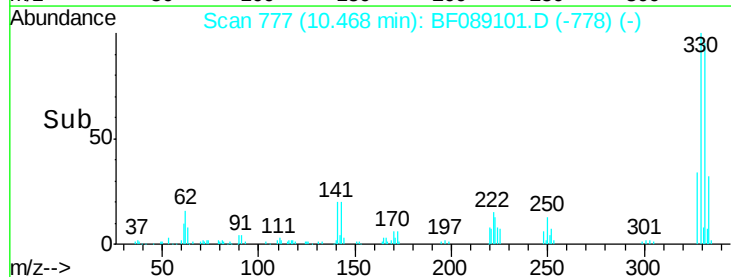
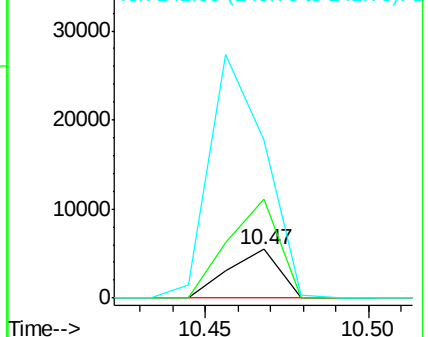


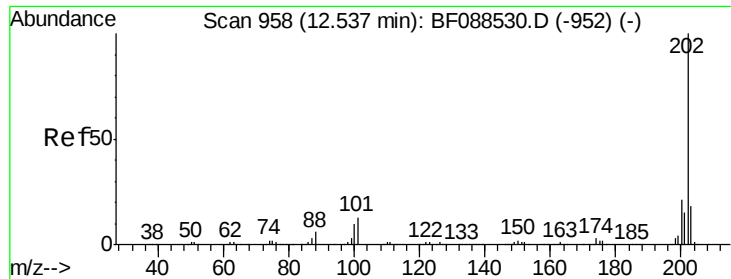
#66  
4-Bromophenyl-phenylether  
Concen: 4.83 ng  
RT: 10.47 min Scan# 777  
Delta R.T. -0.31 min  
Lab File: BF089101.D  
Acq: 19 Jul 2016 00:40

Tgt Ion:248 Resp: 5869  
Ion Ratio Lower Upper  
248 100  
250 203.1 77.1 115.7#  
141 323.6 50.6 76.0#



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

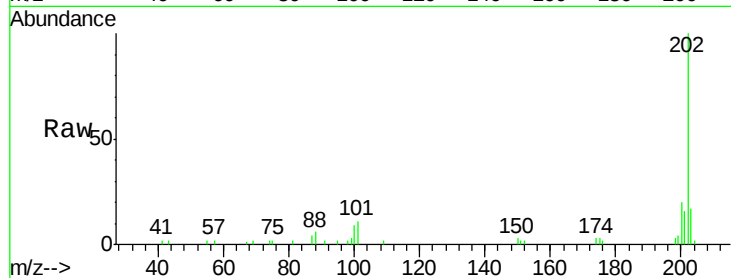




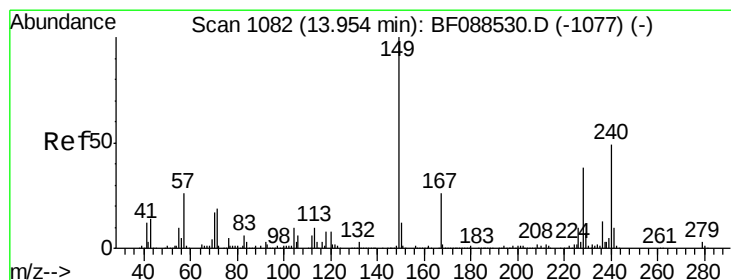
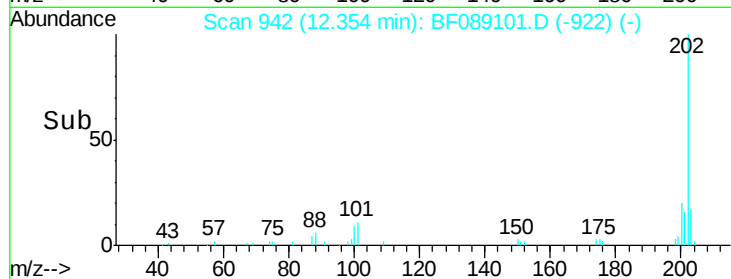
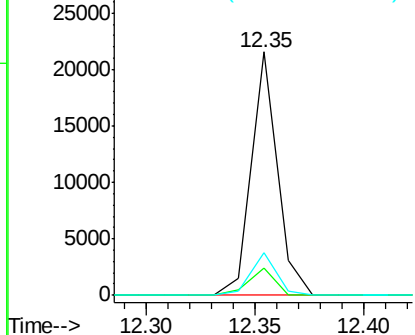
#74  
 Fluoranthene  
 Concen: 2.69 ng  
 RT: 12.35 min Scan# 942  
 Delta R.T. -0.07 min  
 Lab File: BF089101.D  
 Acq: 19 Jul 2016 00:40

Instrument :  
 BNA\_F  
 ClientSampleId :  
 H10-B4(6-12)C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.0  | 0.0   | 33.1  |
| 203     | 17.4  | 0.0   | 38.1  |

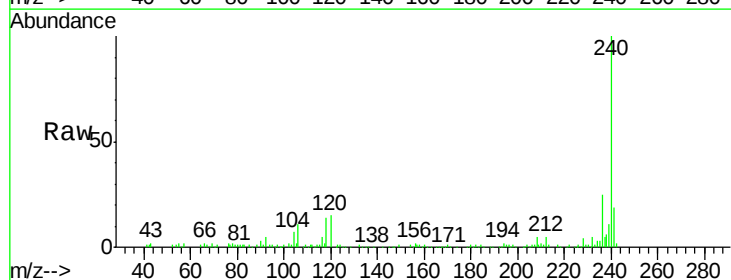


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

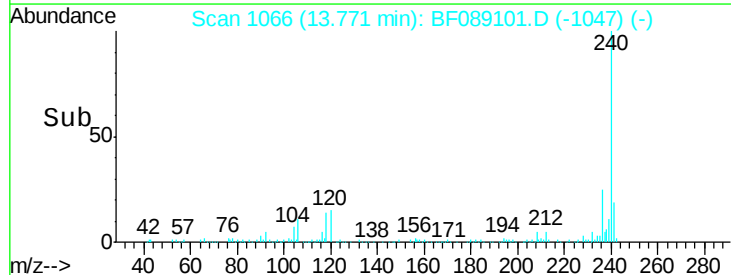
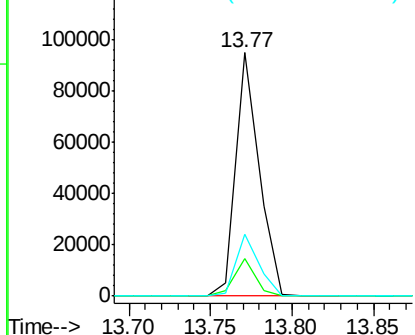


#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.77 min Scan# 1066  
 Delta R.T. -0.08 min  
 Lab File: BF089101.D  
 Acq: 19 Jul 2016 00:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 15.4  | 6.8   | 10.2# |
| 236     | 25.3  | 20.2  | 30.2  |



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

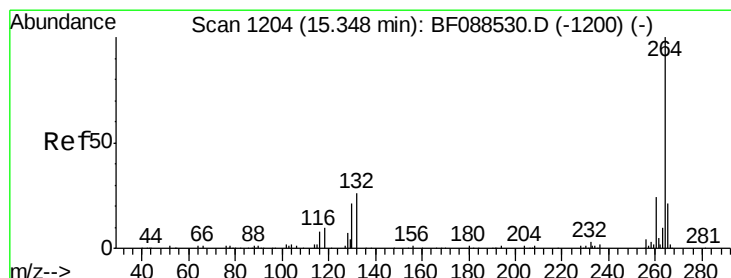
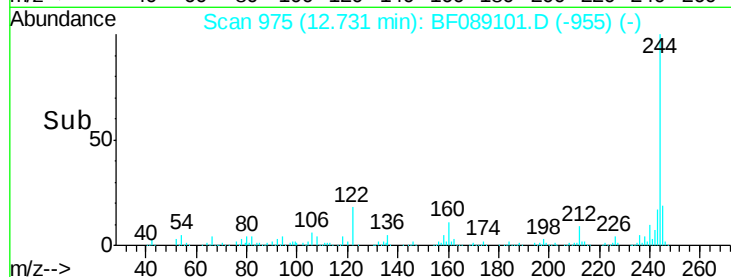
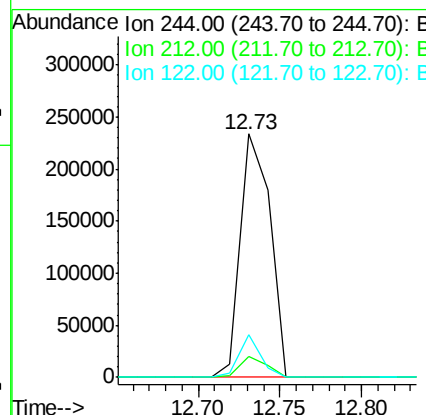
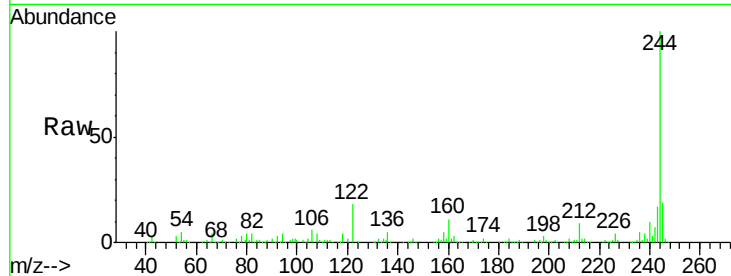




#78  
 Terphenyl-d14  
 Concen: 69.89 ng  
 RT: 12.73 min Scan# 975  
 Delta R.T. -0.07 min  
 Lab File: BF089101.D  
 Acq: 19 Jul 2016 00:40

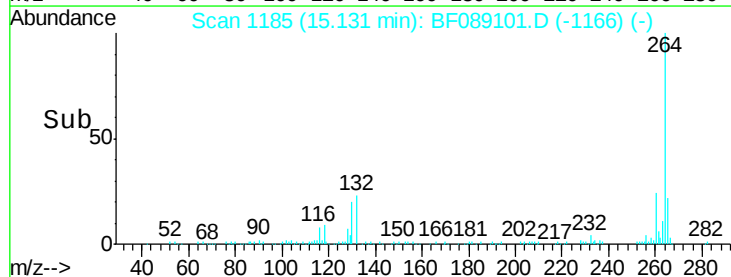
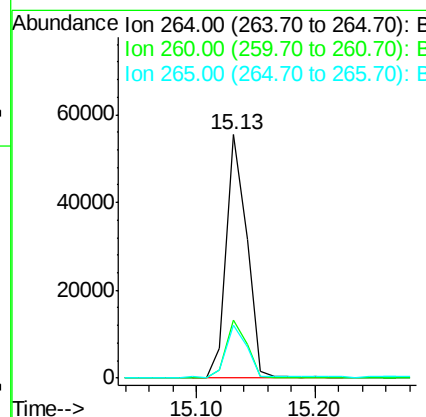
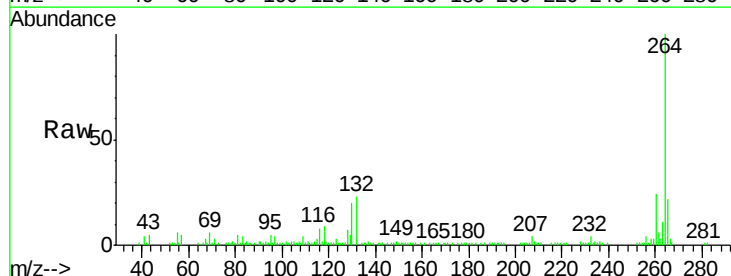
Instrument :  
 BNA\_F  
 ClientSampleId :  
 H10-B4(6-12)C

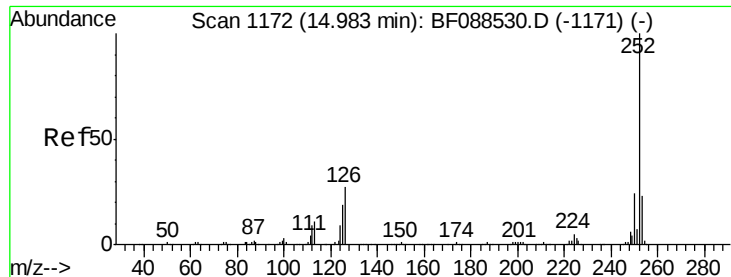
Tgt Ion:244 Resp: 293543  
 Ion Ratio Lower Upper  
 244 100  
 212 8.5 6.0 9.0  
 122 17.7 11.2 16.8#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.13 min Scan# 1185  
 Delta R.T. -0.08 min  
 Lab File: BF089101.D  
 Acq: 19 Jul 2016 00:40

Tgt Ion:264 Resp: 66358  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 19.2 28.8  
 265 21.6 16.9 25.3





#88

Benzo(k)fluoranthene

Concen: 2.24 ng

RT: 14.77 min Scan# 1153

Delta R.T. -0.10 min

Lab File: BF089101.D

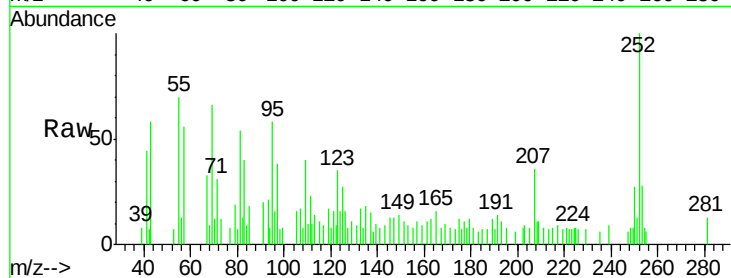
Acq: 19 Jul 2016 00:40

Instrument :

BNA\_F

ClientSampleId :

H10-B4(6-12)C



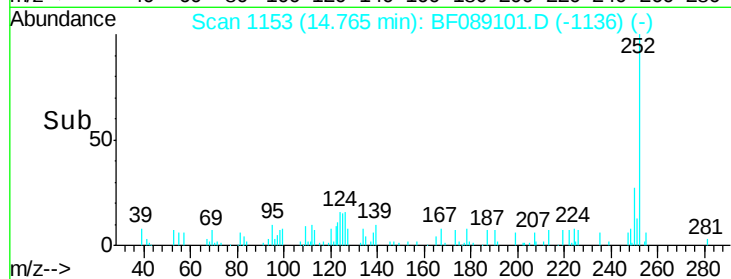
Tgt Ion: 252 Resp: 8107

Ion Ratio Lower Upper

252 100

253 27.8 18.0 27.0#

125 27.5 11.2 16.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

