

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011217\  
 Data File : BF092233.D  
 Acq On : 13 Jan 2017 4:18  
 Operator : UM/SJ  
 Sample : I1131-05  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SW-002

Quant Time: Jan 13 06:48:01 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 06 15:43:51 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.60  | 152  | 167566   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 7.88  | 136  | 807376   | 20.00 | ng    | -0.06    |
| 38) Acenaphthene-d10      | 9.62  | 164  | 309735   | 20.00 | ng    | -0.06    |
| 63) Phenanthrene-d10      | 11.10 | 188  | 442763   | 20.00 | ng    | -0.06    |
| 75) Chrysene-d12          | 13.73 | 240  | 309493   | 20.00 | ng    | -0.06    |
| 86) Perylene-d12          | 15.09 | 264  | 314201   | 20.00 | ng    | -0.06    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.20  | 112 | 1368413 | 136.36 | ng | -0.03 |
| 7) Phenol-d6                | 6.26  | 99  | 1732225 | 141.38 | ng | -0.05 |
| 23) Nitrobenzene-d5         | 7.17  | 82  | 1164283 | 80.19  | ng | -0.05 |
| 41) 2,4,6-Tribromophenol    | 10.42 | 330 | 381569  | 148.86 | ng | -0.05 |
| 44) 2-Fluorobiphenyl        | 8.96  | 172 | 1647233 | 113.25 | ng | -0.05 |
| 78) Terphenyl-d14           | 12.69 | 244 | 1168577 | 91.57  | ng | -0.06 |

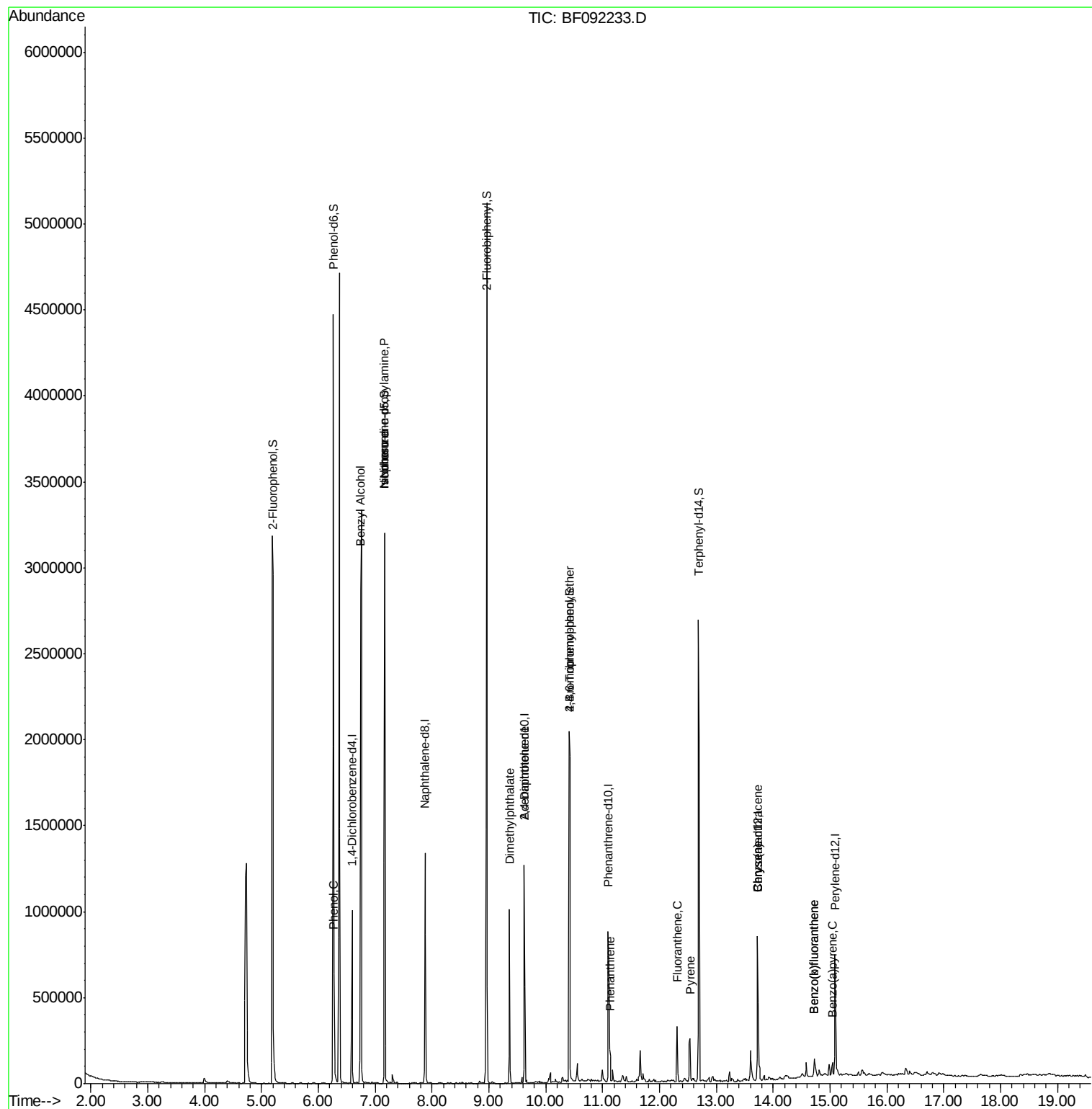
|                                |       |     |         |           |    |        |
|--------------------------------|-------|-----|---------|-----------|----|--------|
| Target Compounds               |       |     |         |           |    | Qvalue |
| 10) Phenol                     | 6.28  | 94  | 36307   | 2.60      | ng | 81     |
| 15) Benzyl Alcohol             | 6.74  | 79  | 20626   | 2.17      | ng | # 42   |
| 19) n-Nitroso-di-n-propylamine | 7.17  | 70  | 157426  | 19.31     | ng | # 75   |
| 25) Isophorone                 | 7.17  | 82  | 1155271 | 43.13     | ng | # 65   |
| 37) 2-Methylnaphthalene        | 8.60  | 142 | 689     | Below Cal | #  | 67     |
| 49) Dimethylphthalate          | 9.36  | 163 | 400556  | 20.22     | ng | 99     |
| 56) 2,4-Dinitrotoluene         | 9.62  | 165 | 40824   | 7.50      | ng | # 20   |
| 66) 4-Bromophenyl-phenylether  | 10.42 | 248 | 23486   | 5.10      | ng | # 1    |
| 70) Phenanthrene               | 11.13 | 178 | 94608   | 3.94      | ng | 97     |
| 73) Di-n-butylphthalate        | 11.68 | 149 | 4312    | Below Cal | #  | 85     |
| 74) Fluoranthene               | 12.31 | 202 | 126645  | 2.39      | ng | 96     |
| 76) Benzidine                  | 12.69 | 184 | 14658   | Below Cal | #  | 97     |
| 77) Pyrene                     | 12.54 | 202 | 100838  | 4.44      | ng | 96     |
| 80) Benzo(a)anthracene         | 13.73 | 228 | 49862   | 2.85      | ng | 100    |
| 82) Chrysene                   | 13.73 | 228 | 49862   | 2.85      | ng | 96     |
| 87) Benzo(b)fluoranthene       | 14.72 | 252 | 73041   | 3.73      | ng | # 94   |
| 88) Benzo(k)fluoranthene       | 14.72 | 252 | 73041   | 4.38      | ng | # 94   |
| 89) Benzo(a)pyrene             | 15.04 | 252 | 38685   | 2.23      | ng | 96     |

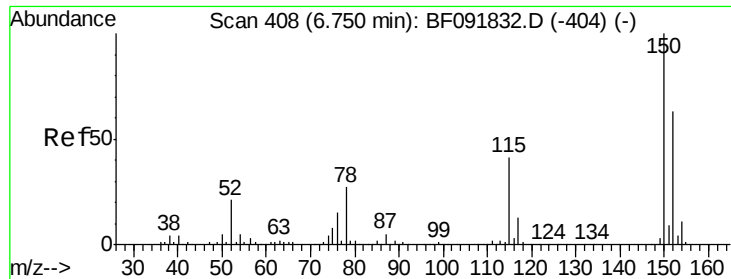
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011217\  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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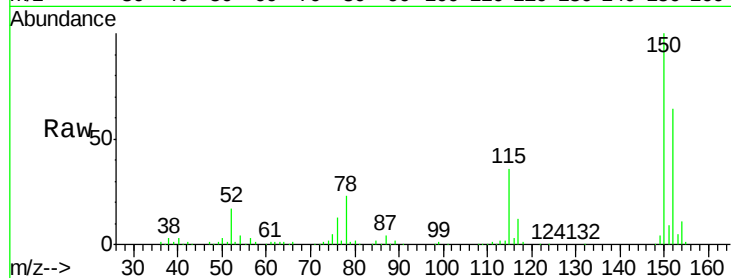




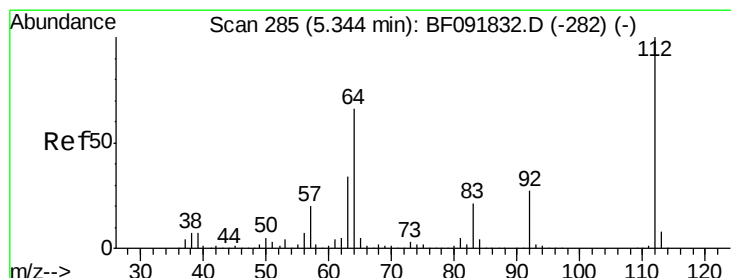
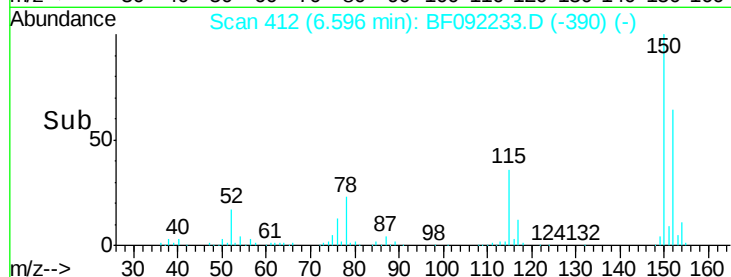
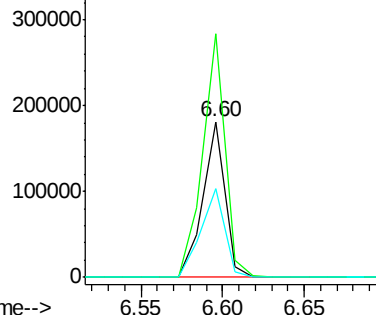
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.60 min Scan# 412  
 Delta R.T. -0.05 min  
 Lab File: BF092233.D  
 Acq: 13 Jan 2017 4:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SW-002

Tgt Ion:152 Resp: 167566  
 Ion Ratio Lower Upper  
 152 100  
 150 156.2 124.9 187.3  
 115 56.8 46.0 69.0

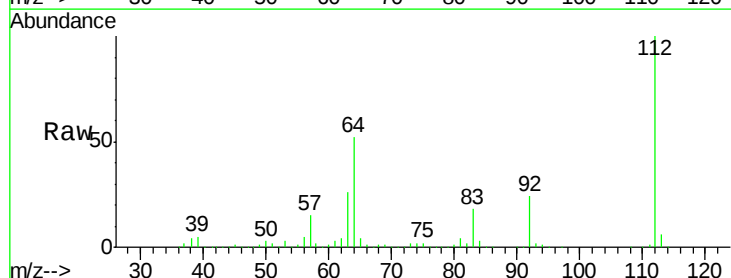


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

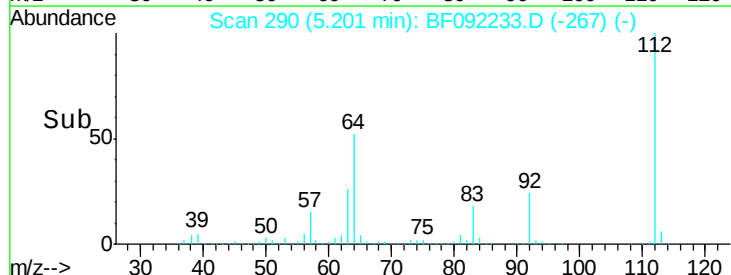
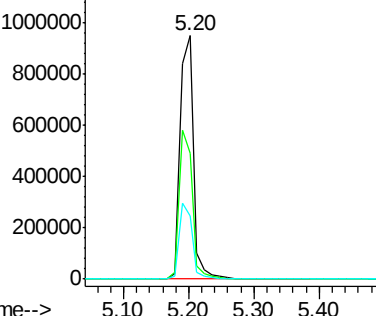


#5  
 2-Fluorophenol  
 Concen: 136.36 ng  
 RT: 5.20 min Scan# 290  
 Delta R.T. -0.03 min  
 Lab File: BF092233.D  
 Acq: 13 Jan 2017 4:18

Tgt Ion:112 Resp: 1368413  
 Ion Ratio Lower Upper  
 112 100  
 64 51.7 46.1 69.1  
 63 26.0 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: 141.38 ng

RT: 6.26 min Scan# 383

Delta R.T. -0.05 min

Lab File: BF092233.D

Acq: 13 Jan 2017 4:18

Instrument :

BNA\_F

ClientSampleId :

SW-002

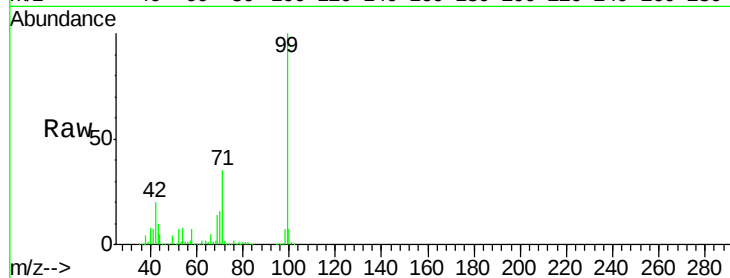
Tgt Ion: 99 Resp: 1732225

Ion Ratio Lower Upper

99 100

42 19.8 15.6 23.4

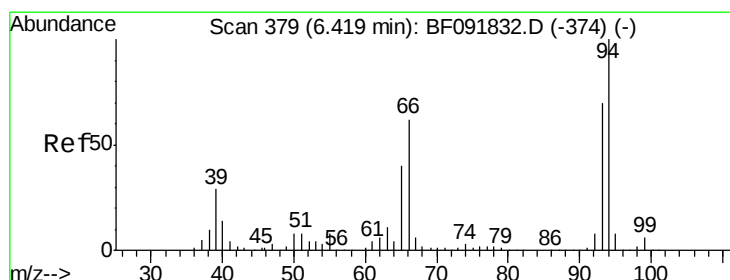
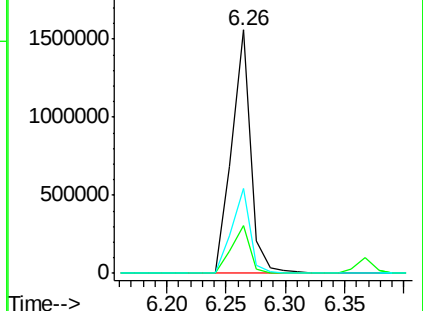
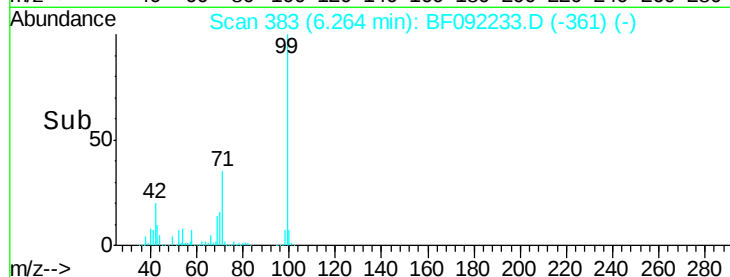
71 34.9 27.5 41.3



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: 2.60 ng

RT: 6.28 min Scan# 384

Delta R.T. -0.05 min

Lab File: BF092233.D

Acq: 13 Jan 2017 4:18

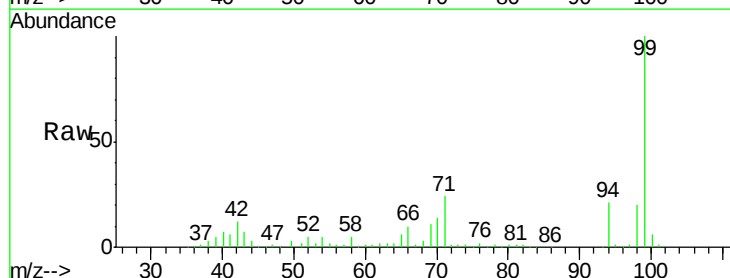
Tgt Ion: 94 Resp: 36307

Ion Ratio Lower Upper

94 100

65 30.1 21.4 61.4

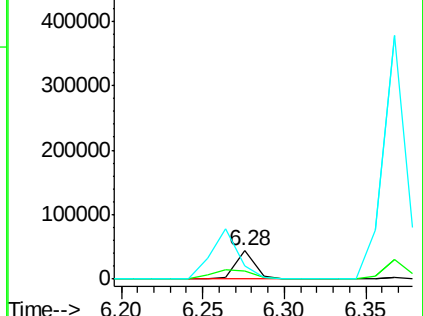
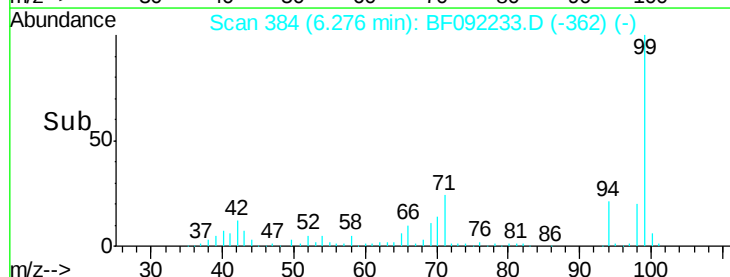
66 48.8 44.0 84.0

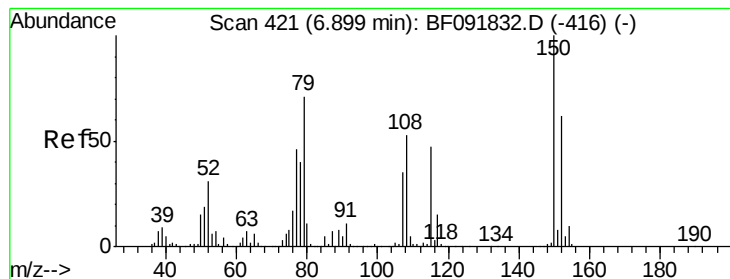


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#15

Benzyl Alcohol

Concen: 2.17 ng

RT: 6.74 min Scan# 425

Delta R.T. -0.06 min

Lab File: BF092233.D

Acq: 13 Jan 2017 4:18

Instrument :

BNA\_F

ClientSampled :

SW-002

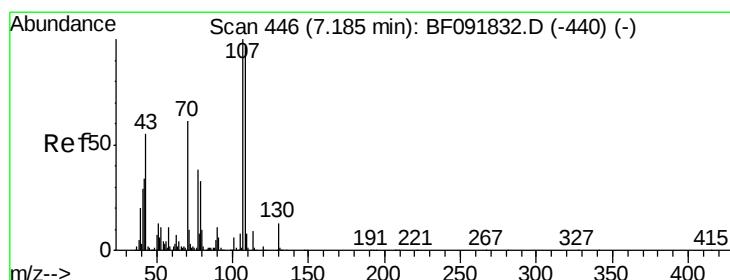
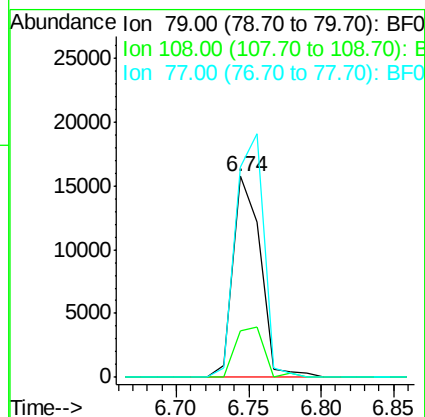
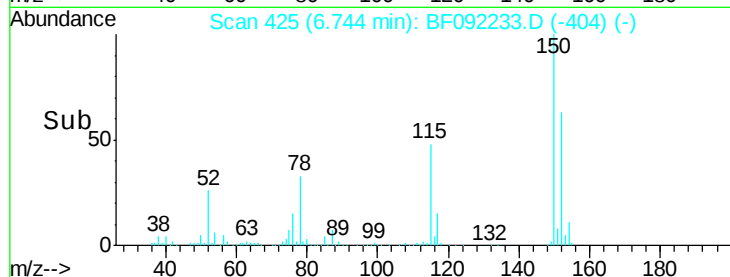
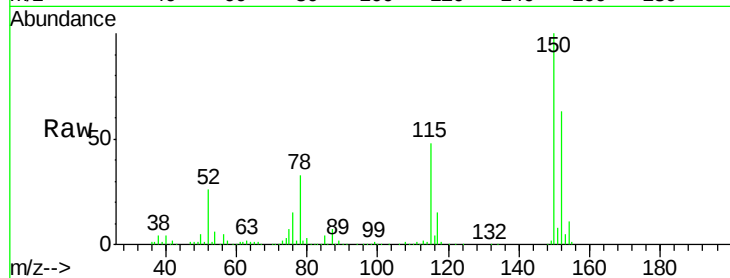
Tgt Ion: 79 Resp: 20626

Ion Ratio Lower Upper

79 100

108 23.2 61.4 92.0#

77 104.5 50.9 76.3#



#19

n-Nitroso-di-n-propylamine

Concen: 19.31 ng

RT: 7.17 min Scan# 462

Delta R.T. 0.09 min

Lab File: BF092233.D

Acq: 13 Jan 2017 4:18

Tgt Ion: 70 Resp: 157426

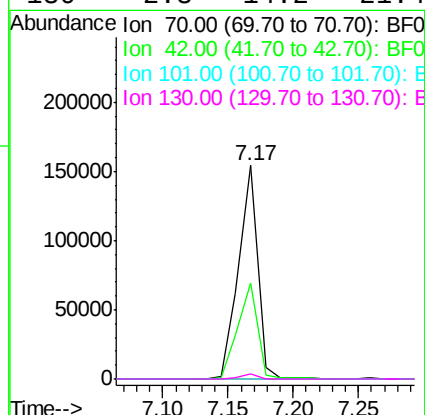
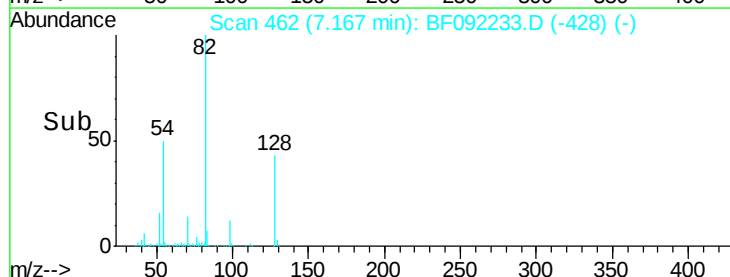
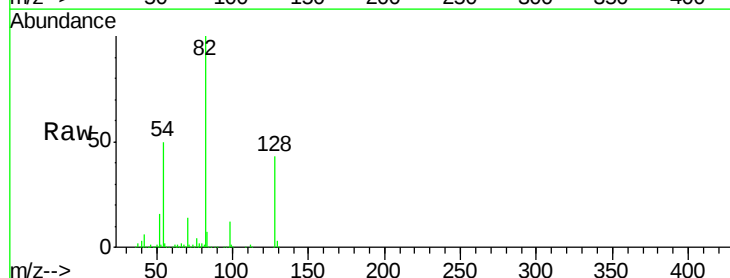
Ion Ratio Lower Upper

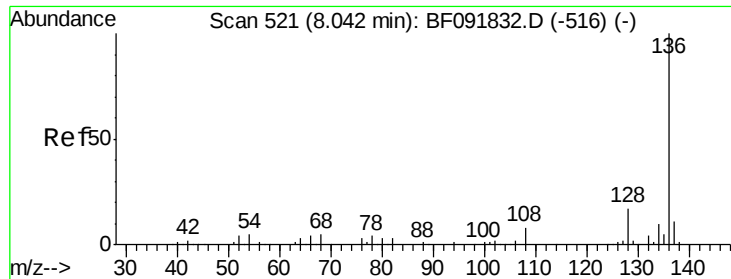
70 100

42 44.7 49.4 74.0#

101 0.0 7.4 11.2#

130 2.3 14.2 21.4#

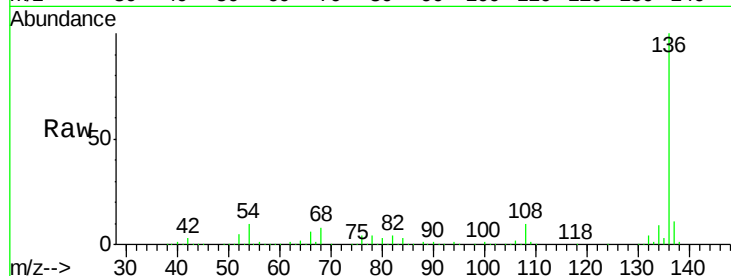




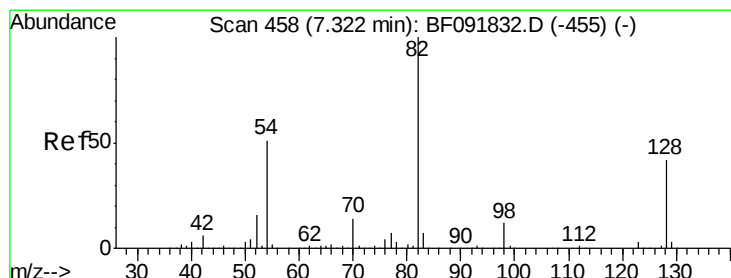
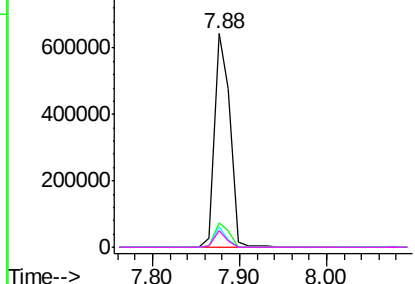
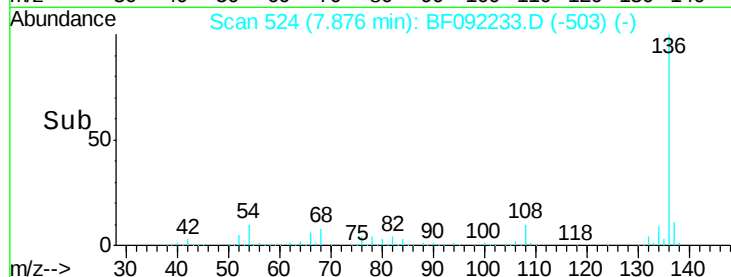
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.88 min Scan# 524  
Delta R.T. -0.06 min  
Lab File: BF092233.D  
Acq: 13 Jan 2017 4:18

Instrument :  
BNA\_F  
ClientSampleId :  
SW-002

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 807376 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 8.4   | 12.6   |
| 54       | 9.7   | 4.5   | 6.7#   |
| 68       | 7.7   | 3.6   | 5.4#   |

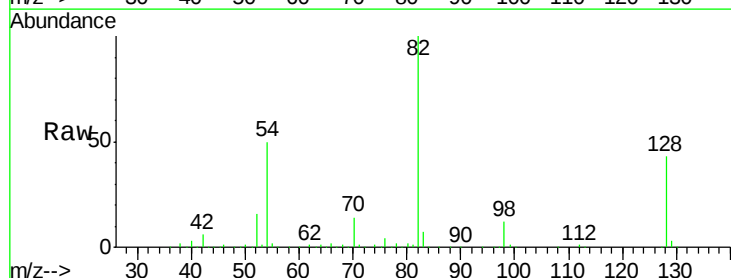


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

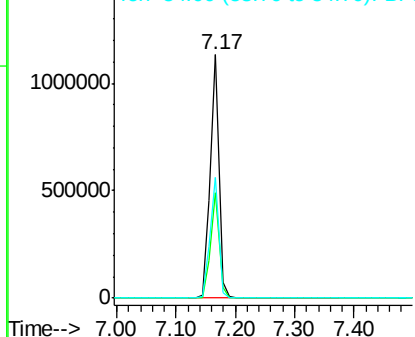
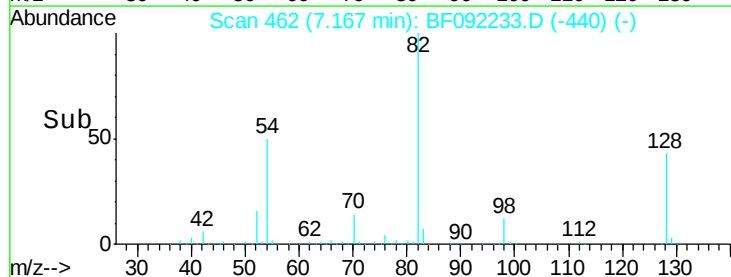


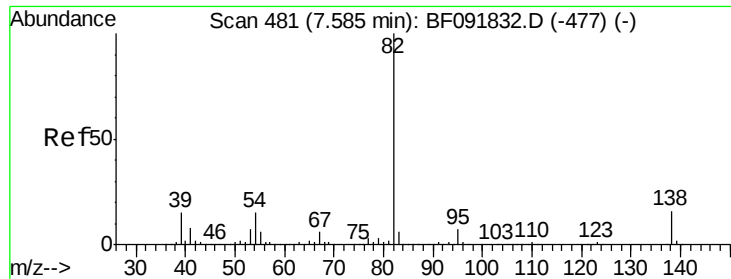
#23  
Nitrobenzene-d5  
Concen: 80.19 ng  
RT: 7.17 min Scan# 462  
Delta R.T. -0.05 min  
Lab File: BF092233.D  
Acq: 13 Jan 2017 4:18

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1164283 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 43.1  | 34.6  | 52.0    |
| 54       | 49.5  | 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

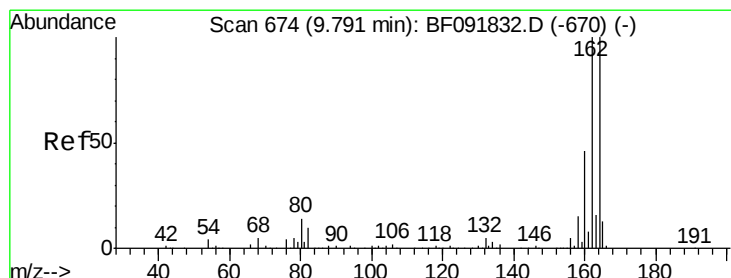
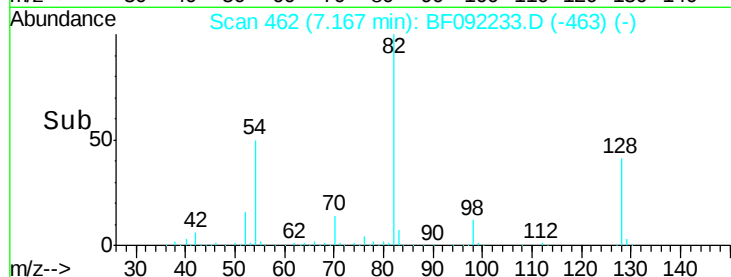
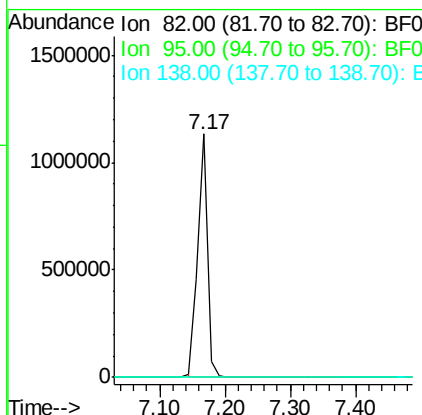
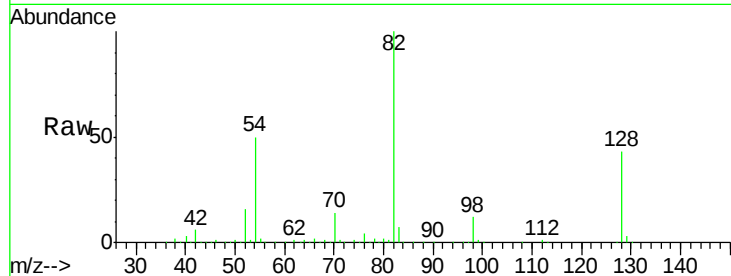




#25  
Isophorone  
Concen: 43.13 ng  
RT: 7.17 min Scan# 462  
Delta R.T. -0.31 min  
Lab File: BF092233.D  
Acq: 13 Jan 2017 4:18

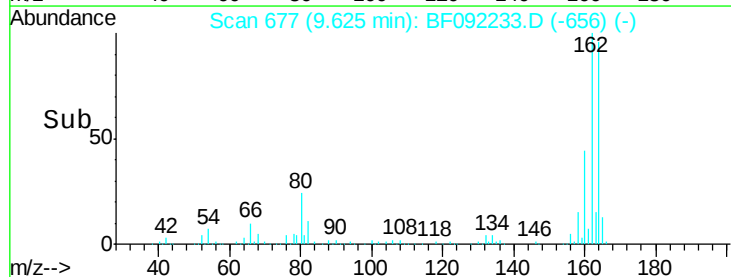
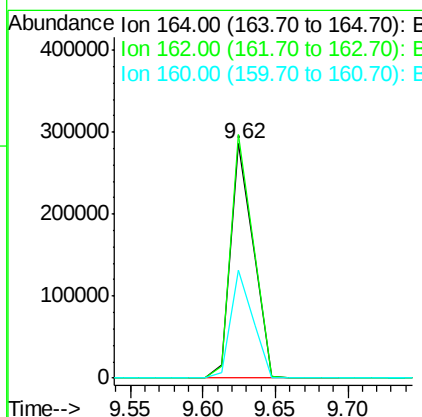
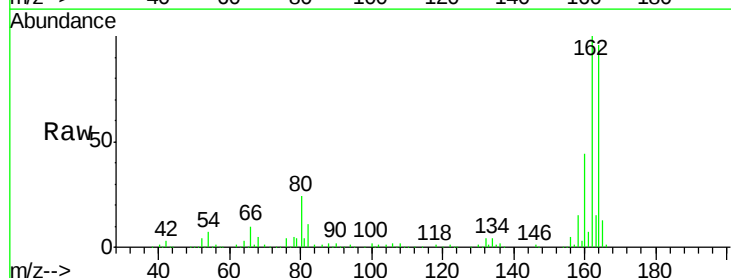
Instrument :  
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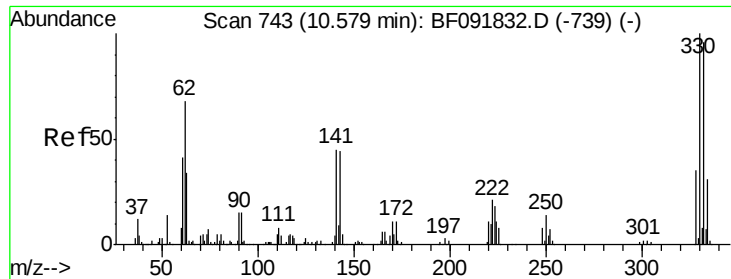
Tgt Ion: 82 Resp: 1155271  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.6 8.4#  
138 0.0 14.6 22.0#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.62 min Scan# 677  
Delta R.T. -0.06 min  
Lab File: BF092233.D  
Acq: 13 Jan 2017 4:18

Tgt Ion: 164 Resp: 309735  
Ion Ratio Lower Upper  
164 100  
162 103.9 80.2 120.2  
160 46.2 36.9 55.3

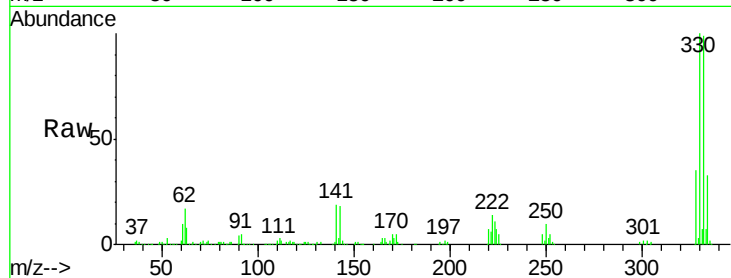




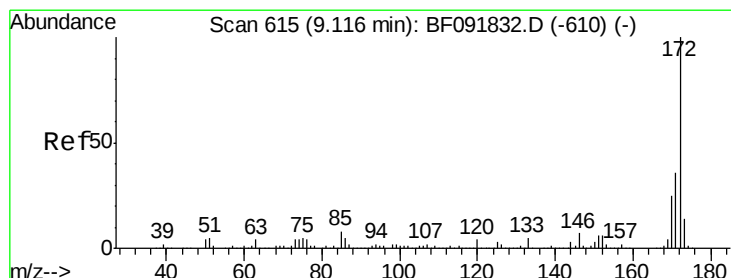
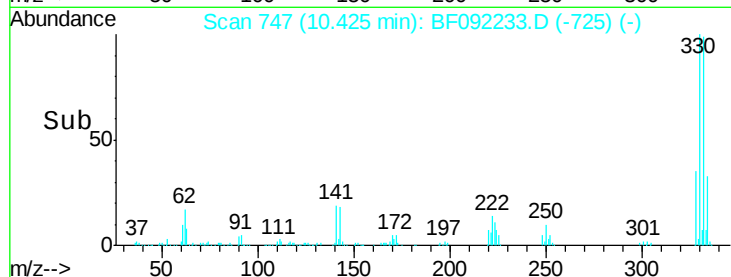
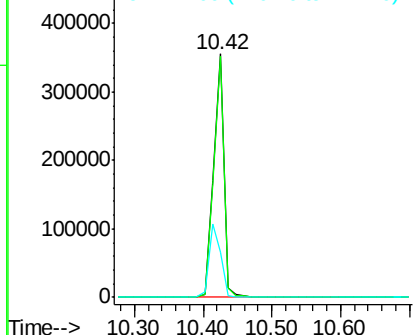
#41  
 2,4,6-Tribromophenol  
 Concen: 148.86 ng  
 RT: 10.42 min Scan# 747  
 Delta R.T. -0.05 min  
 Lab File: BF092233.D  
 Acq: 13 Jan 2017 4:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SW-002

Tgt Ion:330 Resp: 381569  
 Ion Ratio Lower Upper  
 330 100  
 332 98.1 77.4 116.2  
 141 33.8 34.1 51.1#

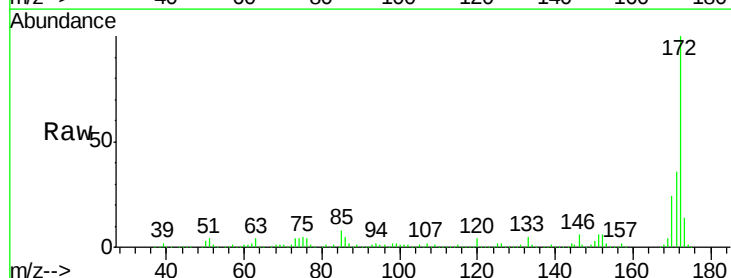


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

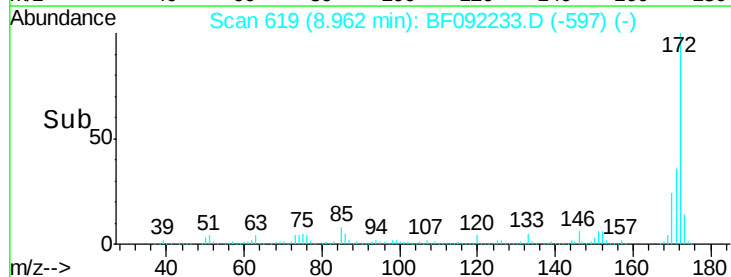
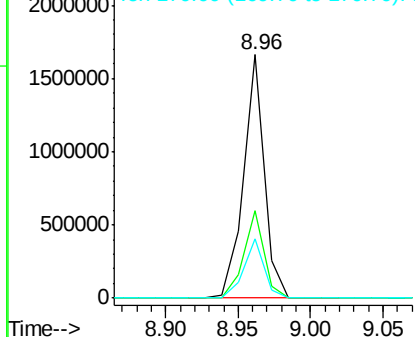


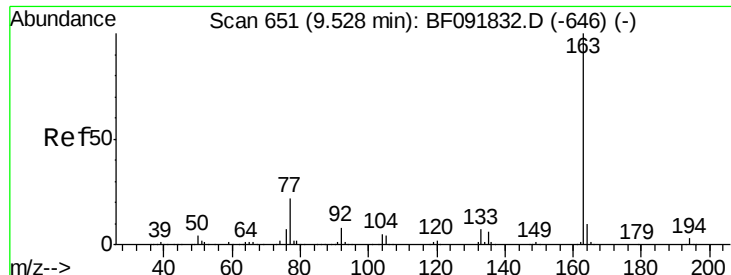
#44  
 2-Fluorobiphenyl  
 Concen: 113.25 ng  
 RT: 8.96 min Scan# 619  
 Delta R.T. -0.05 min  
 Lab File: BF092233.D  
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Tgt Ion:172 Resp: 1647233  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 29.4 44.0  
 170 24.5 20.2 30.4



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

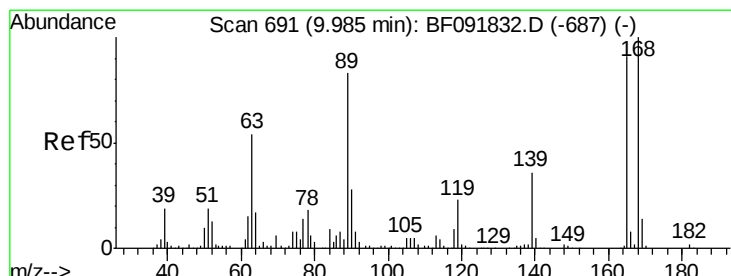
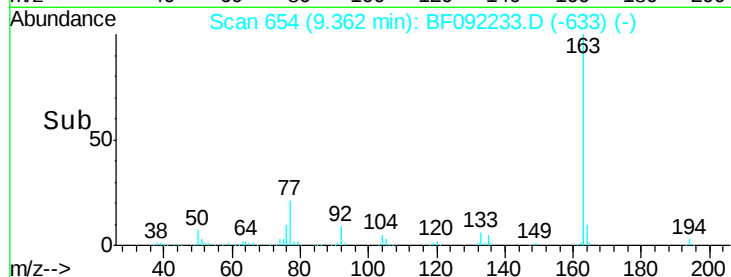
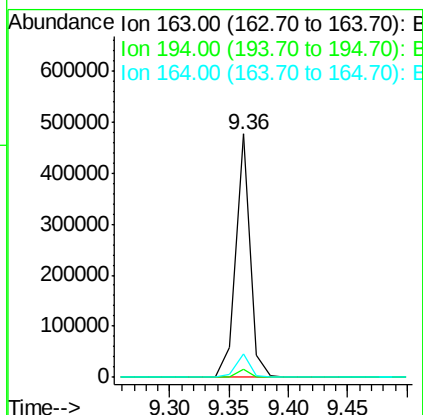
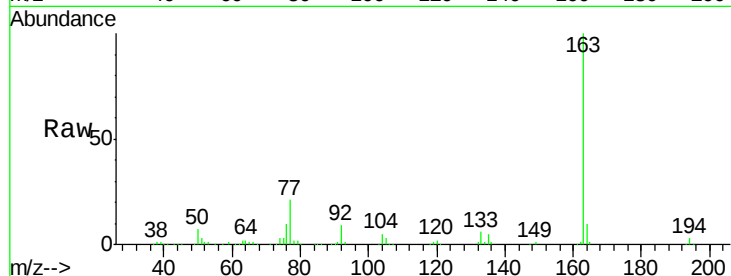




#49  
Dimethylphthalate  
Concen: 20.22 ng  
RT: 9.36 min Scan# 654  
Delta R.T. -0.06 min  
Lab File: BF092233.D  
Acq: 13 Jan 2017 4:18

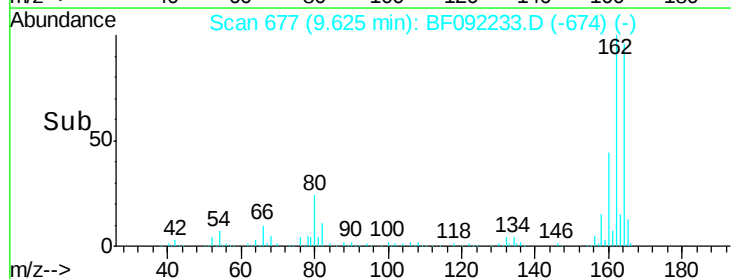
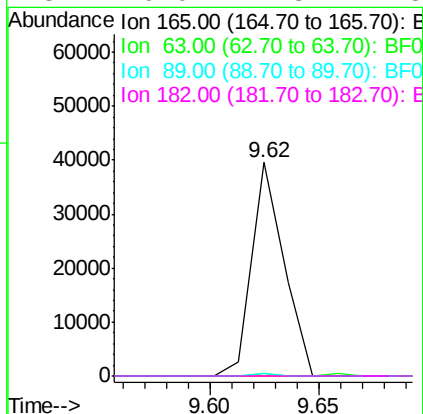
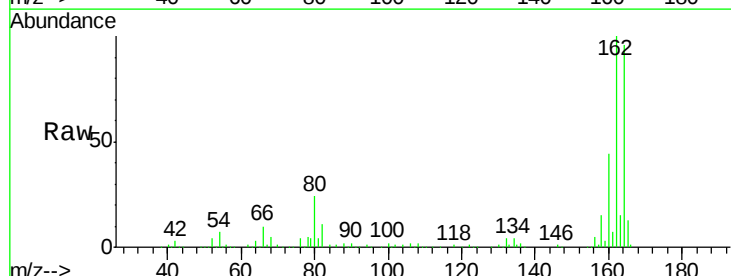
Instrument :  
BNA\_F  
ClientSampleId :  
SW-002

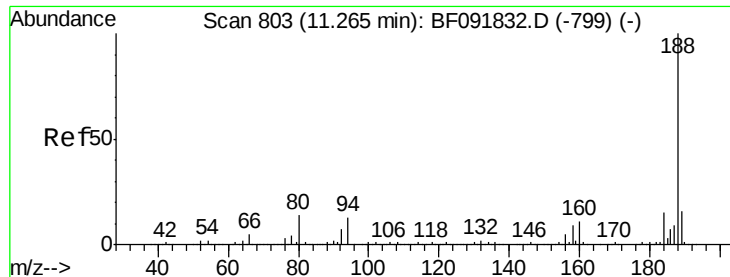
Tgt Ion:163 Resp: 400556  
Ion Ratio Lower Upper  
163 100  
194 3.3 3.0 4.4  
164 9.8 8.0 12.0



#56  
2,4-Dinitrotoluene  
Concen: 7.50 ng  
RT: 9.62 min Scan# 677  
Delta R.T. -0.26 min  
Lab File: BF092233.D  
Acq: 13 Jan 2017 4:18

Tgt Ion:165 Resp: 40824  
Ion Ratio Lower Upper  
165 100  
63 1.1 40.2 60.4#  
89 1.3 62.5 93.7#  
182 0.0 1.8 2.8#

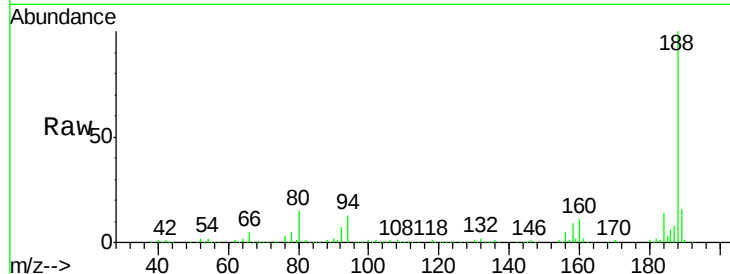




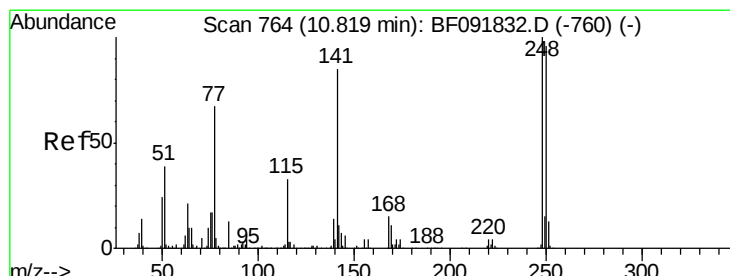
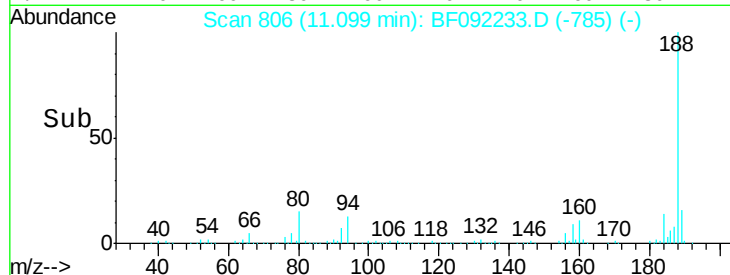
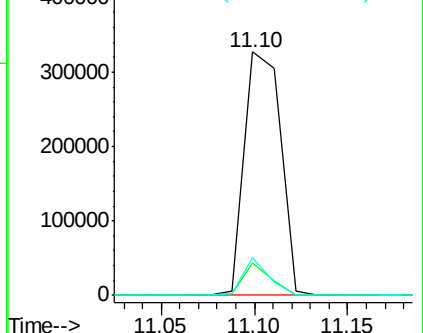
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.10 min Scan# 806  
Delta R.T. -0.06 min  
Lab File: BF092233.D  
Acq: 13 Jan 2017 4:18

Instrument :  
BNA\_F  
ClientSampleId :  
SW-002

Tgt Ion:188 Resp: 442763  
Ion Ratio Lower Upper  
188 100  
94 13.4 10.0 15.0  
80 15.4 11.2 16.8

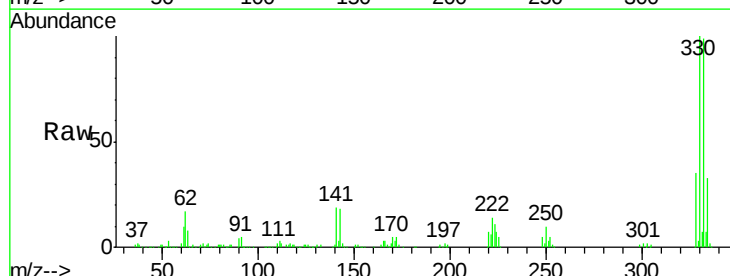


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

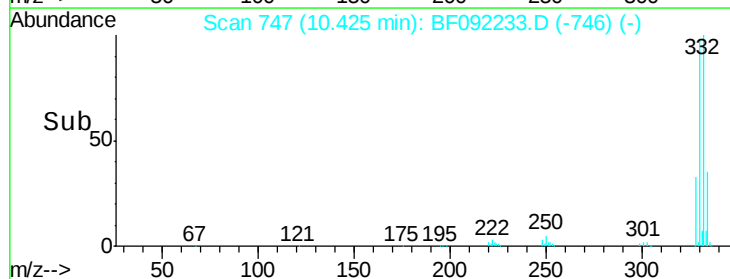
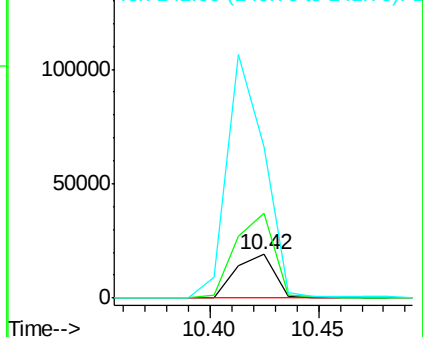


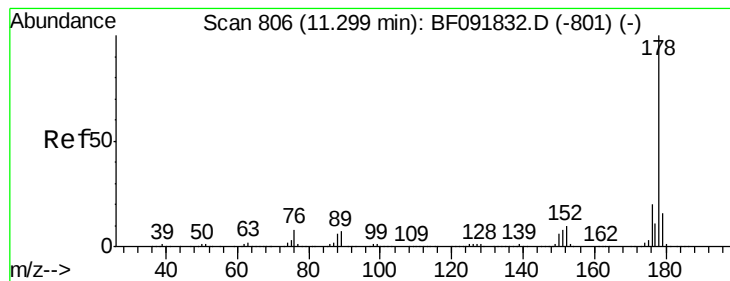
#66  
4-Bromophenyl-phenylether  
Concen: 5.10 ng  
RT: 10.42 min Scan# 747  
Delta R.T. -0.29 min  
Lab File: BF092233.D  
Acq: 13 Jan 2017 4:18

Tgt Ion:248 Resp: 23486  
Ion Ratio Lower Upper  
248 100  
250 193.3 76.9 115.3#  
141 345.9 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: 3.94 ng

RT: 11.13 min Scan# 809

Delta R.T. -0.05 min

Lab File: BF092233.D

Acq: 13 Jan 2017 4:18

Instrument :

BNA\_F

ClientSampleId :

SW-002

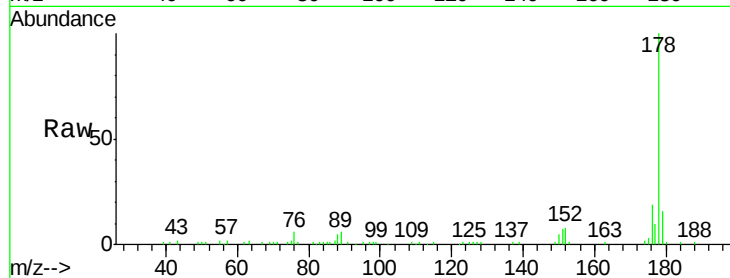
Tgt Ion:178 Resp: 94608

Ion Ratio Lower Upper

178 100

176 19.1 16.6 25.0

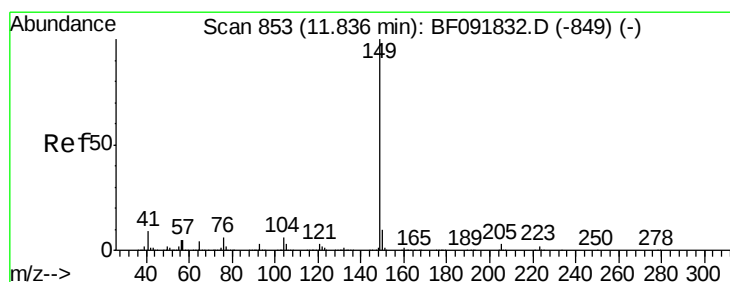
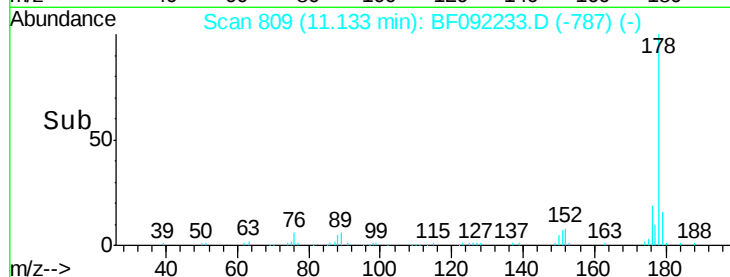
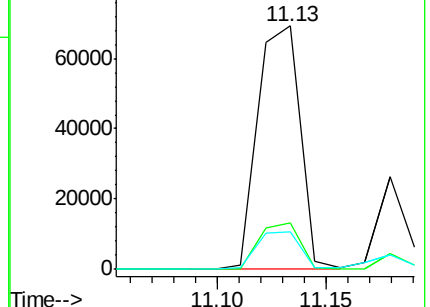
179 15.5 12.8 19.2



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



#73

Di-n-butylphthalate

Concen: Below Cal

RT: 11.68 min Scan# 857

Delta R.T. -0.05 min

Lab File: BF092233.D

Acq: 13 Jan 2017 4:18

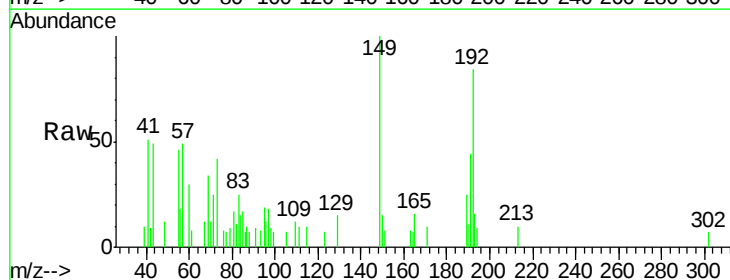
Tgt Ion:149 Resp: 4312

Ion Ratio Lower Upper

149 100

150 15.3 8.1 12.1#

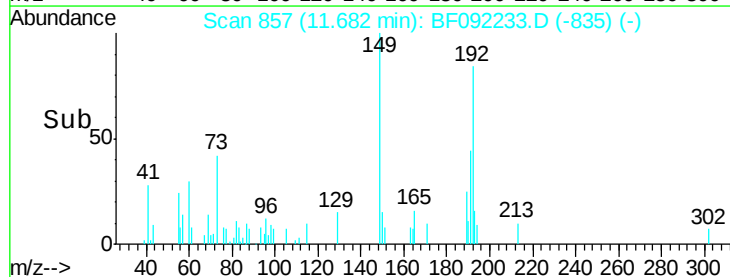
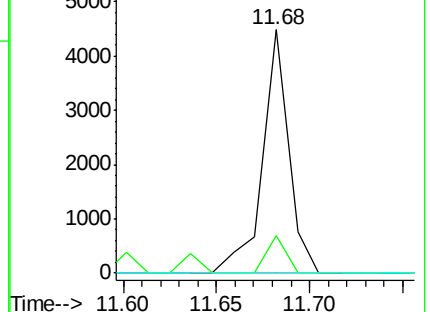
104 0.0 4.6 7.0#

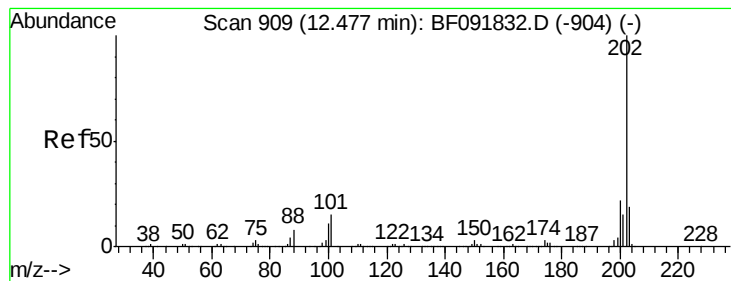


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 2.39 ng

RT: 12.31 min Scan# 912

Delta R.T. -0.06 min

Lab File: BF092233.D

Acq: 13 Jan 2017 4:18

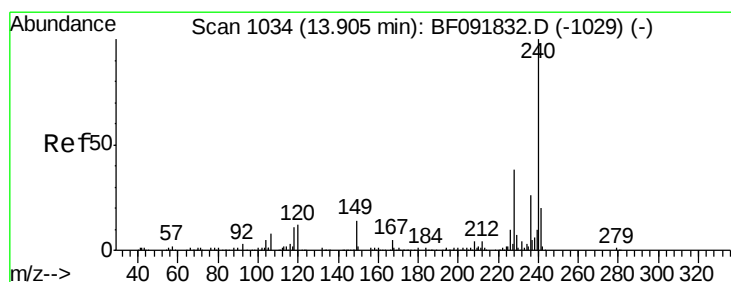
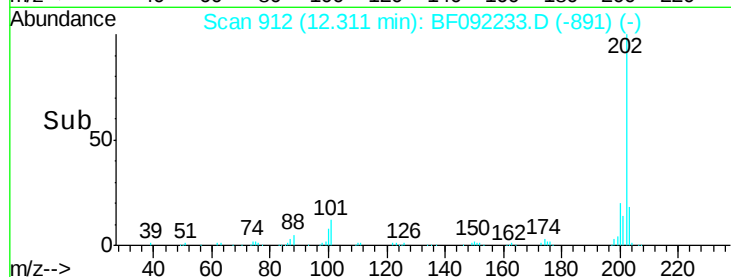
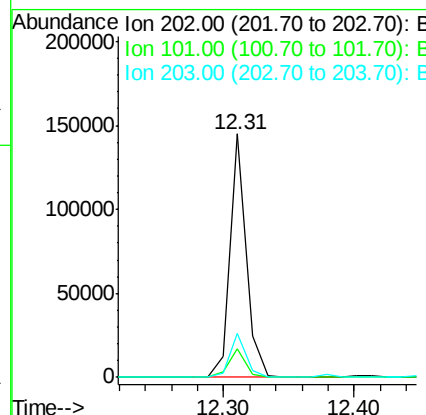
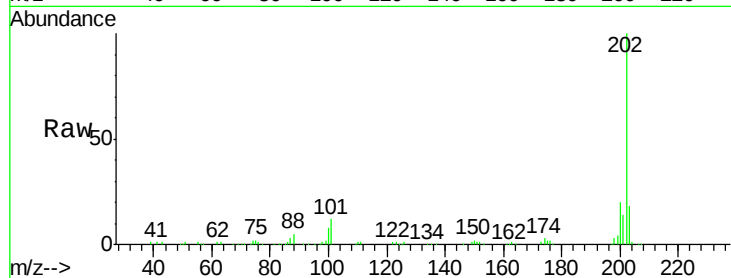
Instrument :

BNA\_F

ClientSampleId :

SW-002

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 126645 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.6  | 0.0   | 34.6   |
| 203       | 18.0  | 0.0   | 38.7   |



#75

Chrysene-d12

Concen: 20.00 ng

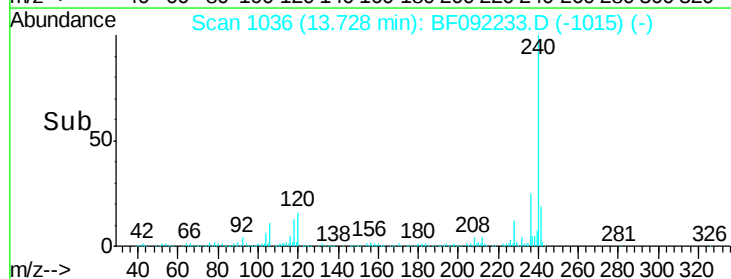
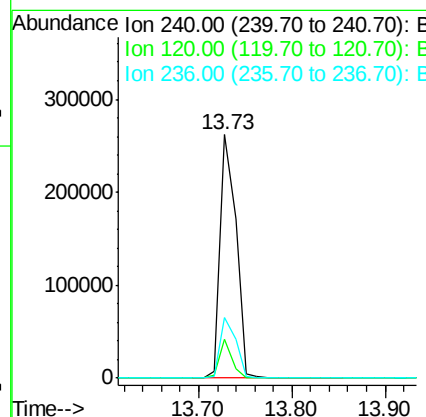
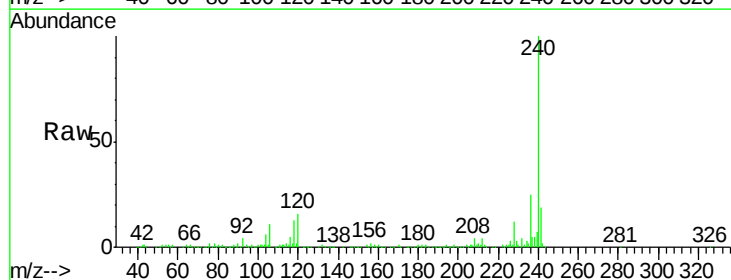
RT: 13.73 min Scan# 1036

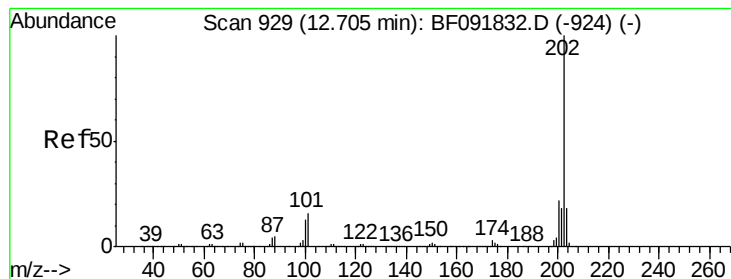
Delta R.T. -0.06 min

Lab File: BF092233.D

Acq: 13 Jan 2017 4:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 309493 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 15.7  | 12.9  | 19.3   |
| 236       | 25.1  | 20.9  | 31.3   |





#77

Pyrene

Concen: 4.44 ng

RT: 12.54 min Scan# 932

Delta R.T. -0.05 min

Lab File: BF092233.D

Acq: 13 Jan 2017 4:18

Instrument :

BNA\_F

ClientSampleId :

SW-002

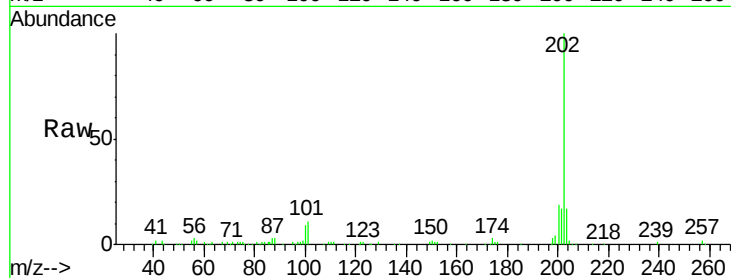
Tgt Ion:202 Resp: 100838

Ion Ratio Lower Upper

202 100

200 19.3 17.7 26.5

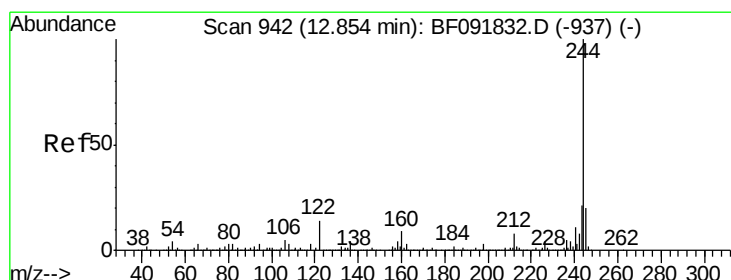
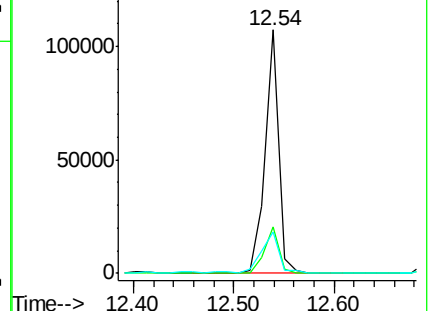
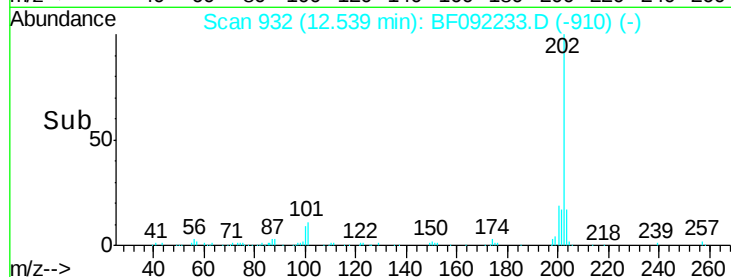
203 17.2 14.7 22.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 91.57 ng

RT: 12.69 min Scan# 945

Delta R.T. -0.06 min

Lab File: BF092233.D

Acq: 13 Jan 2017 4:18

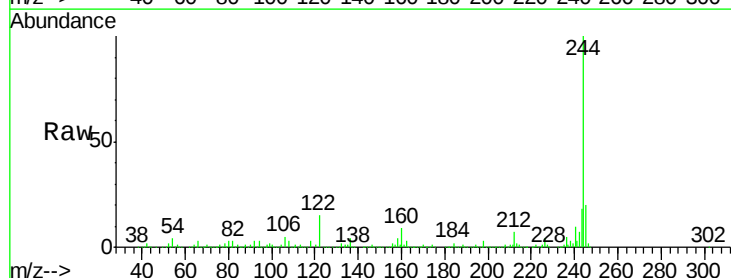
Tgt Ion:244 Resp: 1168577

Ion Ratio Lower Upper

244 100

212 7.3 6.2 9.2

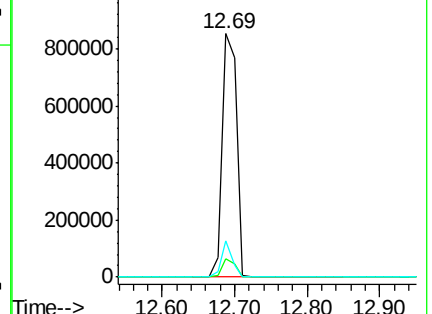
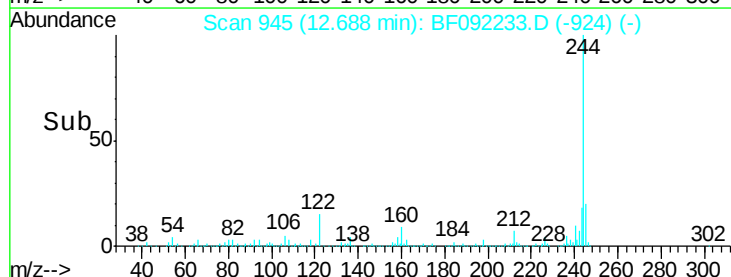
122 14.8 11.4 17.2

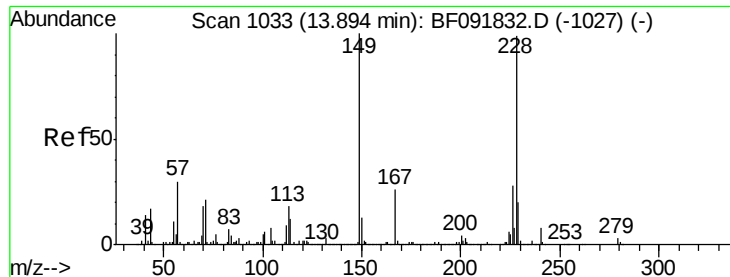


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.85 ng

RT: 13.73 min Scan# 1036

Delta R.T. -0.05 min

Lab File: BF092233.D

Acq: 13 Jan 2017 4:18

Instrument :

BNA\_F

ClientSampleId :

SW-002

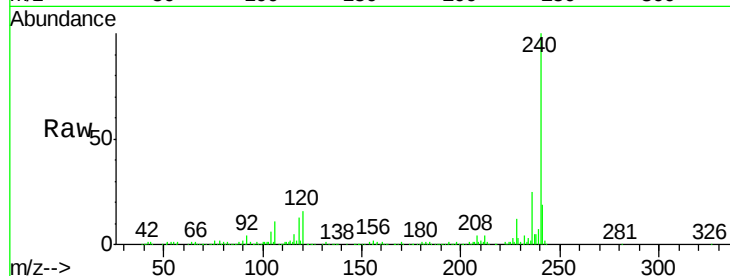
Tgt Ion:228 Resp: 49862

Ion Ratio Lower Upper

228 100

226 28.2 22.4 33.6

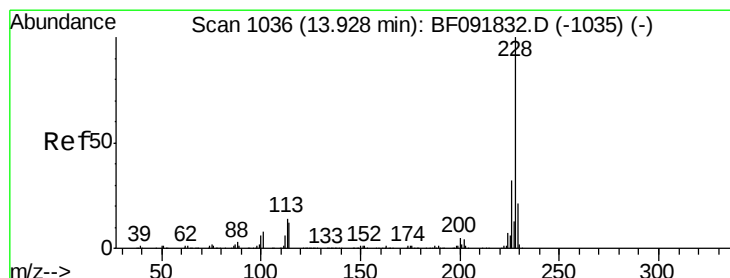
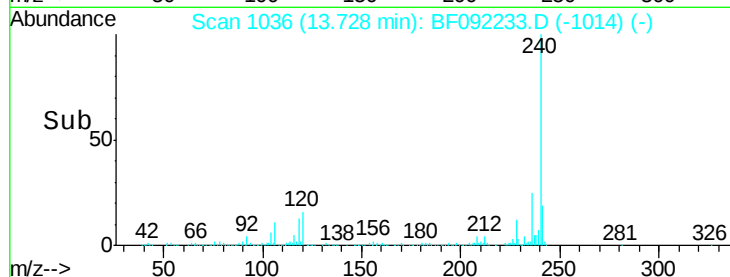
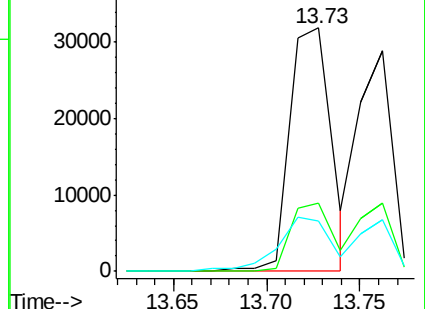
229 20.6 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 2.85 ng

RT: 13.73 min Scan# 1036

Delta R.T. -0.08 min

Lab File: BF092233.D

Acq: 13 Jan 2017 4:18

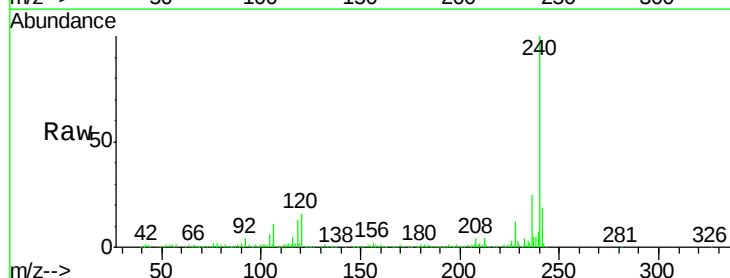
Tgt Ion:228 Resp: 49862

Ion Ratio Lower Upper

228 100

226 28.2 25.4 38.0

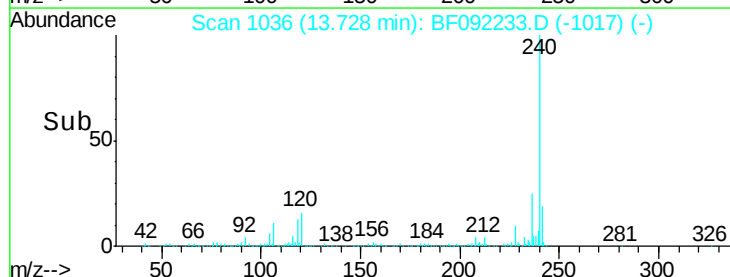
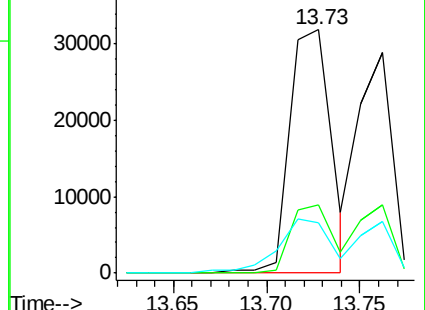
229 20.6 16.2 24.2

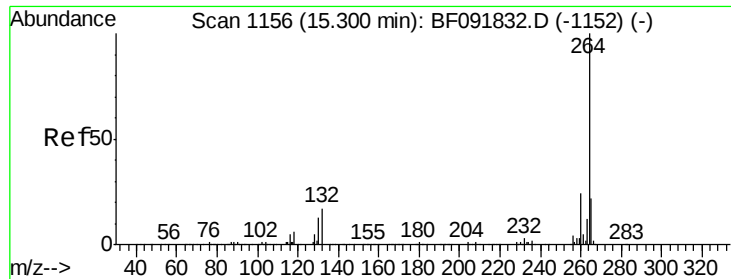


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

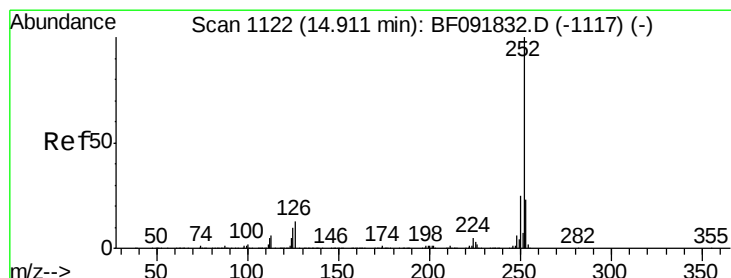
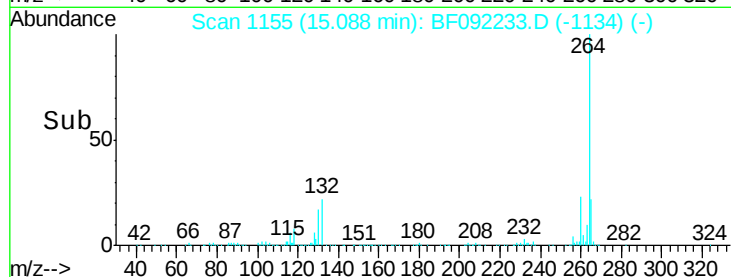
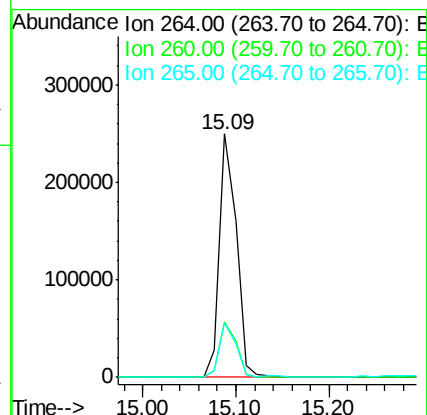
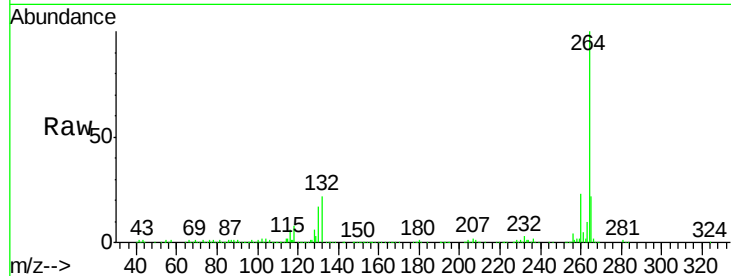




#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.09 min Scan# 1155  
 Delta R.T. -0.06 min  
 Lab File: BF092233.D  
 Acq: 13 Jan 2017 4:18

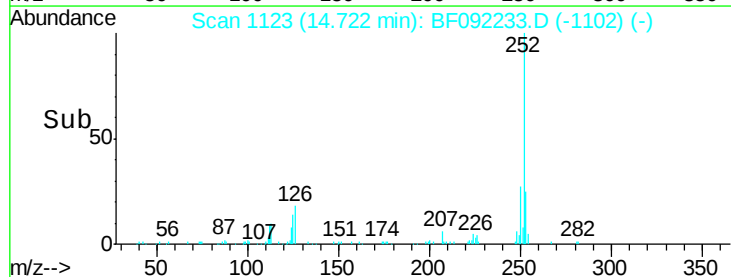
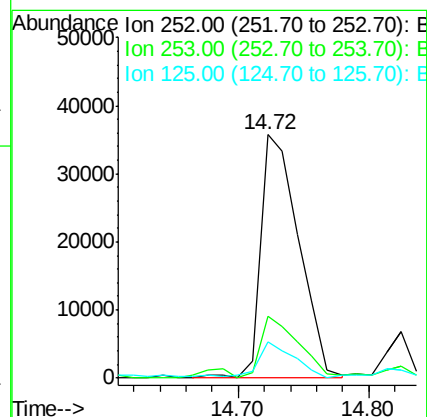
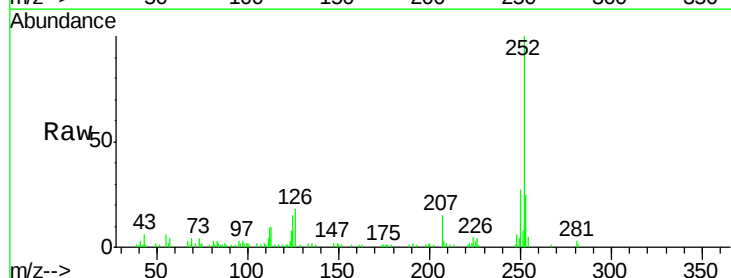
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SW-002

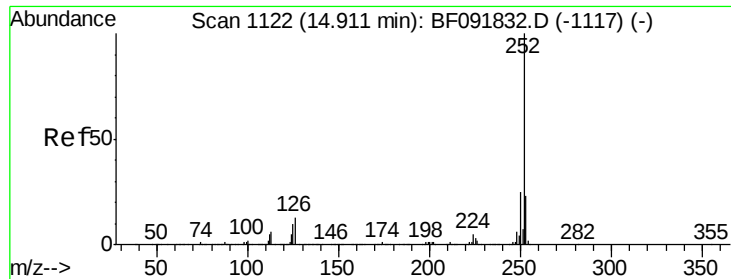
Tgt Ion: 264 Resp: 314201  
 Ion Ratio Lower Upper  
 264 100  
 260 22.6 19.2 28.8  
 265 22.2 17.4 26.0



#87  
 Benzo(b)fluoranthene  
 Concen: 3.73 ng  
 RT: 14.72 min Scan# 1123  
 Delta R.T. -0.06 min  
 Lab File: BF092233.D  
 Acq: 13 Jan 2017 4:18

Tgt Ion: 252 Resp: 73041  
 Ion Ratio Lower Upper  
 252 100  
 253 25.2 18.2 27.4  
 125 14.9 9.8 14.6#

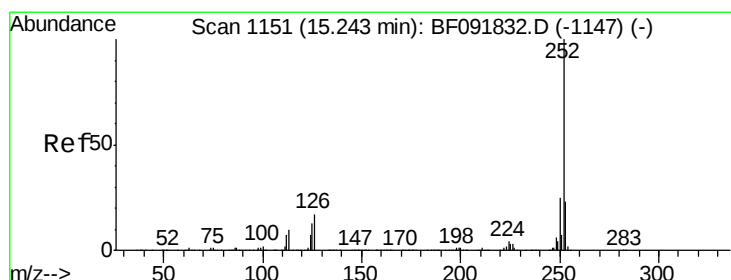
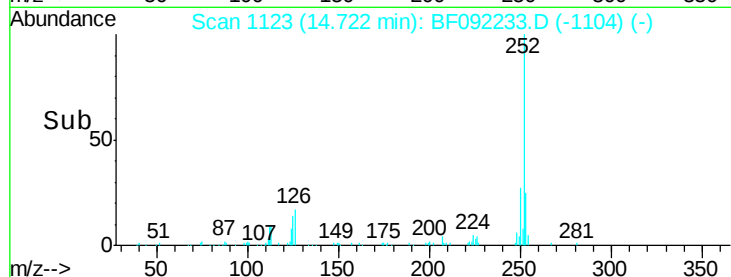
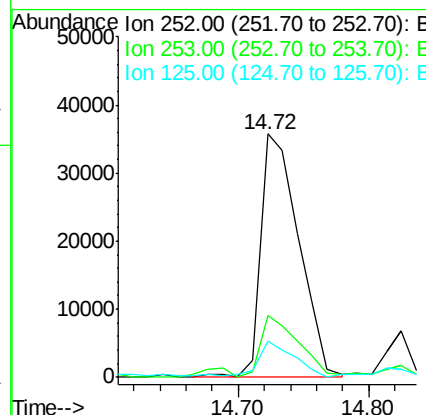
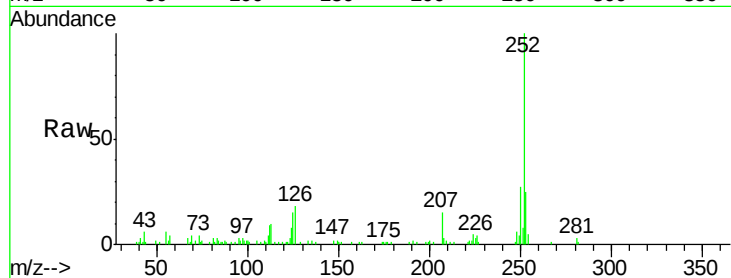




#88  
Benzo(k)fluoranthene  
Concen: 4.38 ng  
RT: 14.72 min Scan# 1123  
Delta R.T. -0.08 min  
Lab File: BF092233.D  
Acq: 13 Jan 2017 4:18

Instrument :  
BNA\_F  
ClientSampleId :  
SW-002

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 18.5  | 27.7  |
| 125     | 14.9  | 8.9   | 13.3# |



#89  
Benzo(a)pyrene  
Concen: 2.23 ng  
RT: 15.04 min Scan# 1151  
Delta R.T. -0.06 min  
Lab File: BF092233.D  
Acq: 13 Jan 2017 4:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.7  | 18.2  | 27.2  |
| 125     | 10.8  | 10.0  | 15.0  |

