

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\  
 Data File : BF092259.D  
 Acq On : 13 Jan 2017 23:21  
 Operator : UM/SJ  
 Sample : I1179-01  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-1

Quant Time: Jan 16 02:40:45 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 16 01:02:36 2017  
 Response via : Initial Calibration

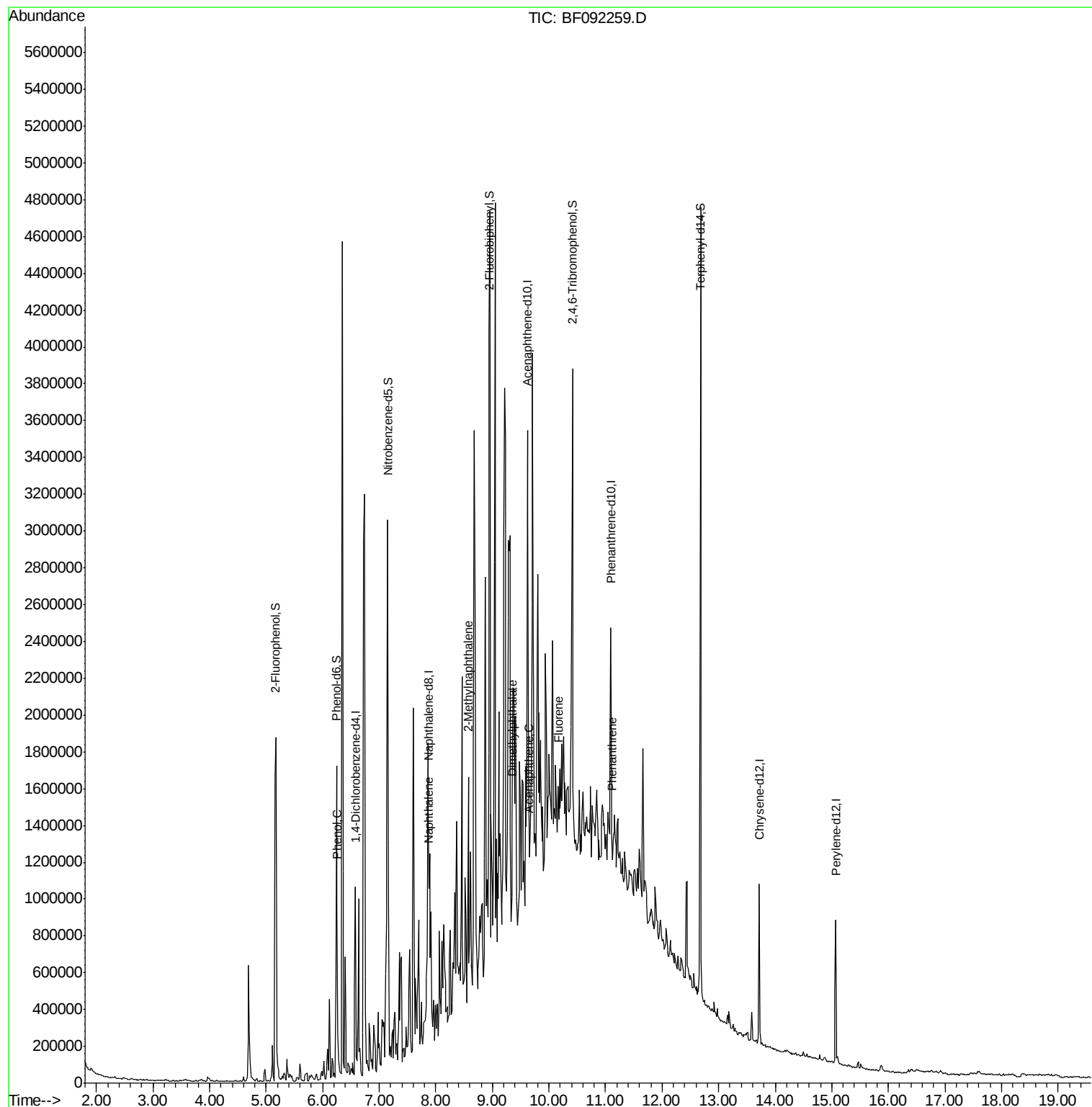
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.58  | 152  | 176114   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 7.87  | 136  | 695781   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.62  | 164  | 348850   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.09 | 188  | 519549   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 13.72 | 240  | 437887   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.07 | 264  | 347481   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.17  | 112  | 868581   | 82.35  | ng    | 0.00     |
| 7) Phenol-d6                | 6.24  | 99   | 688003   | 53.43  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.15  | 82   | 1062799  | 84.94  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.42 | 330  | 385181   | 133.42 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 8.95  | 172  | 1993710  | 122.84 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.68 | 244  | 1495966  | 82.86  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.26  | 94   | 48006    | 3.27   | ng    | 87       |
| 31) Naphthalene             | 7.88  | 128  | 404185   | 12.69  | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.58  | 142  | 314320   | 12.73  | ng    | 98       |
| 49) Dimethylphthalate       | 9.35  | 163  | 73868    | 3.31   | ng    | # 87     |
| 51) Acenaphthene            | 9.65  | 154  | 47150    | 2.39   | ng    | 92       |
| 57) Fluorene                | 10.16 | 166  | 81972    | 4.23   | ng    | # 94     |
| 70) Phenanthrene            | 11.11 | 178  | 66118    | 2.35   | ng    | # 85     |

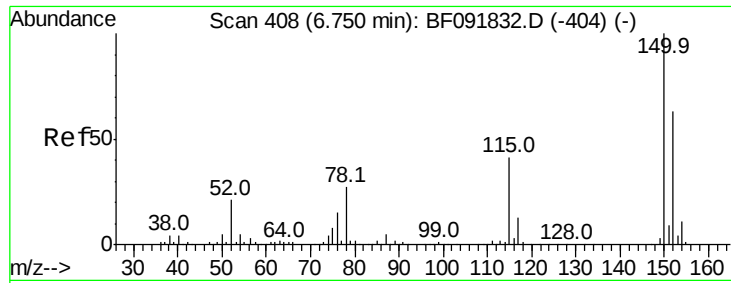
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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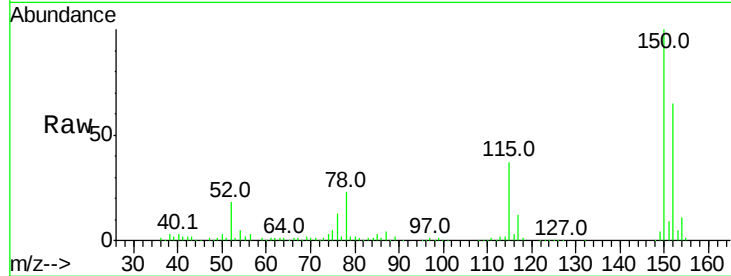


#1

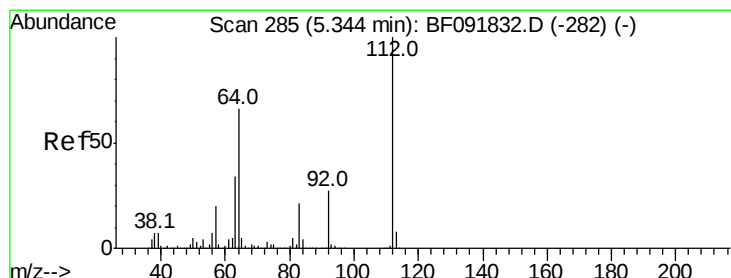
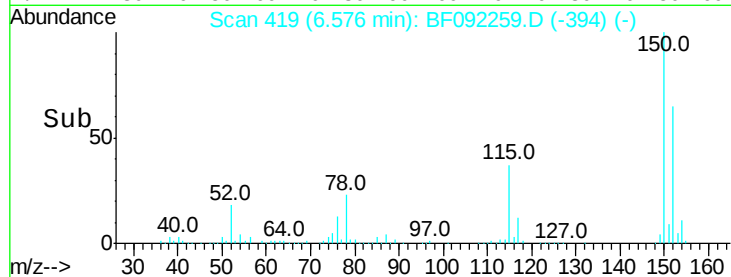
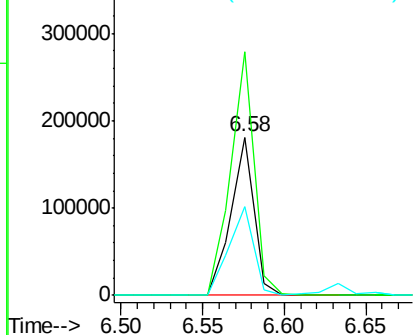
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.58 min Scan# 419  
Delta R.T. -0.01 min  
Lab File: BF092259.D  
Acq: 13 Jan 2017 23:21

Instrument :  
BNA\_F  
ClientSampleId :  
MW-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.2 | 124.9 | 187.3 |
| 115     | 56.5  | 46.0  | 69.0  |



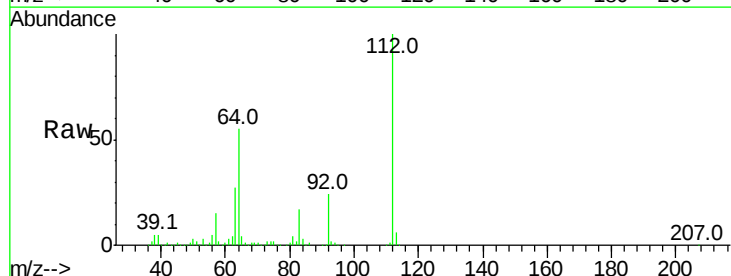
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



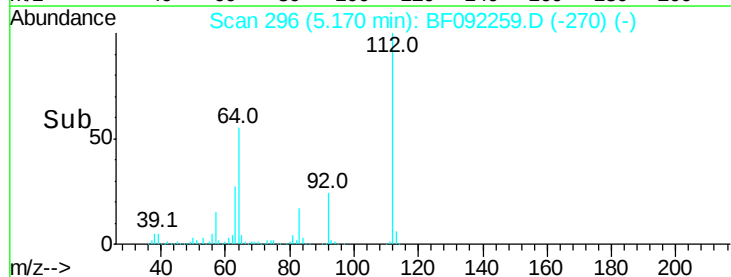
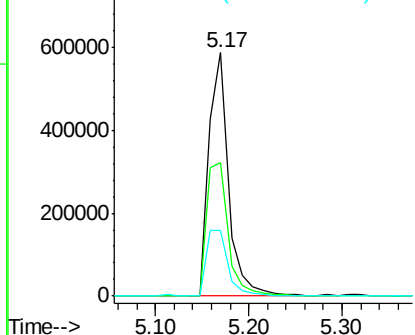
#5

2-Fluorophenol  
Concen: 82.35 ng  
RT: 5.17 min Scan# 296  
Delta R.T. 0.00 min  
Lab File: BF092259.D  
Acq: 13 Jan 2017 23:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.0  | 46.1  | 69.1  |
| 63      | 27.0  | 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: 53.43 ng

RT: 6.24 min Scan# 390

Delta R.T. -0.01 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

Instrument :

BNA\_F

ClientSampleId :

MW-1

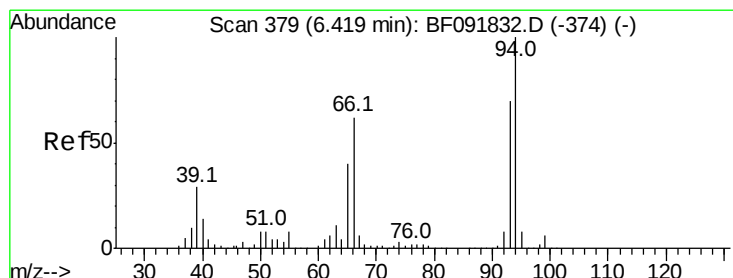
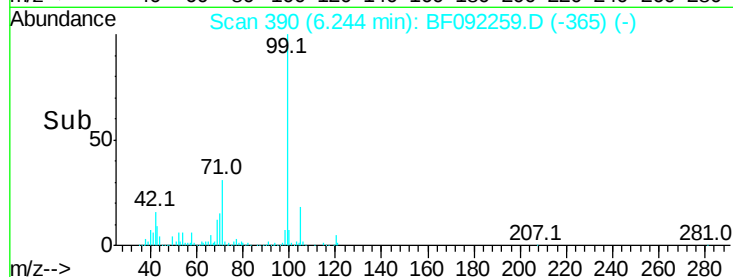
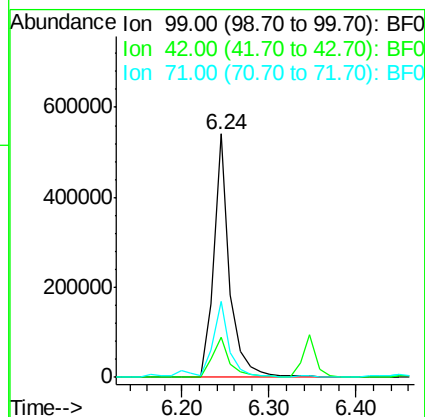
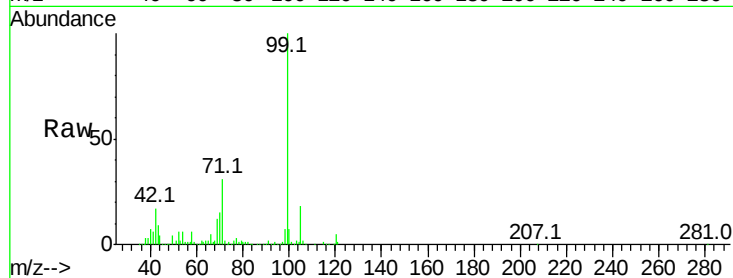
Tot Ion: 99 Resp: 688003

Ion Ratio Lower Upper

99 100

42 16.6 15.6 23.4

71 31.1 27.5 41.3



#10

Phenol

Concen: 3.27 ng

RT: 6.26 min Scan# 391

Delta R.T. -0.01 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

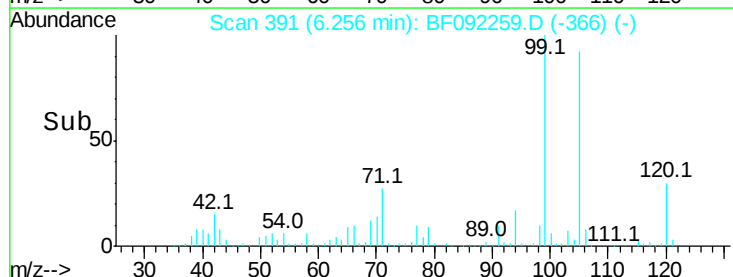
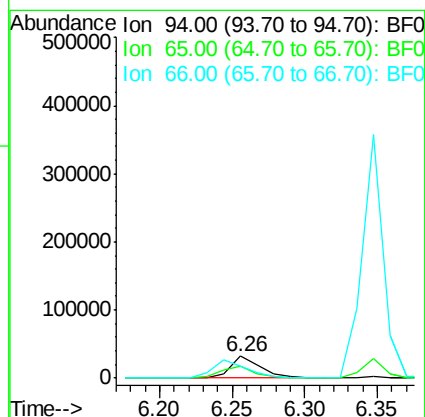
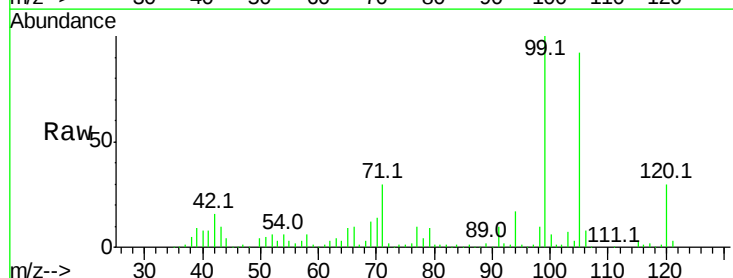
Tgt Ion: 94 Resp: 48006

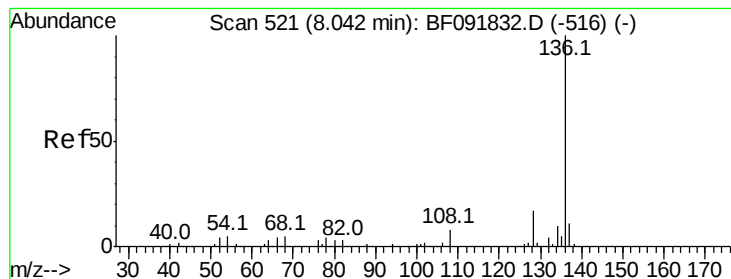
Ion Ratio Lower Upper

94 100

65 54.1 21.4 61.4

66 57.9 44.0 84.0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.87 min Scan# 532

Delta R.T. -0.01 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

Instrument :

BNA\_F

ClientSampleId :

MW-1

Tot Ion:136 Resp: 695781

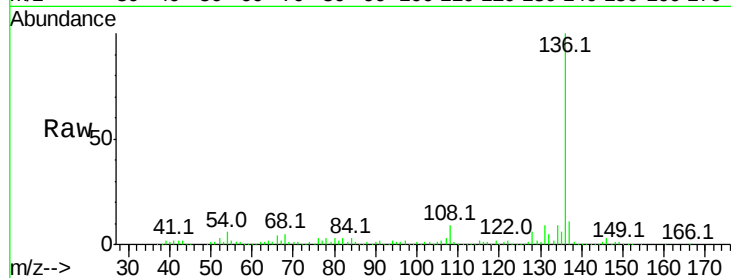
Ion Ratio Lower Upper

136 100

137 10.7 8.4 12.6

54 6.0 4.5 6.7

68 4.9 3.6 5.4

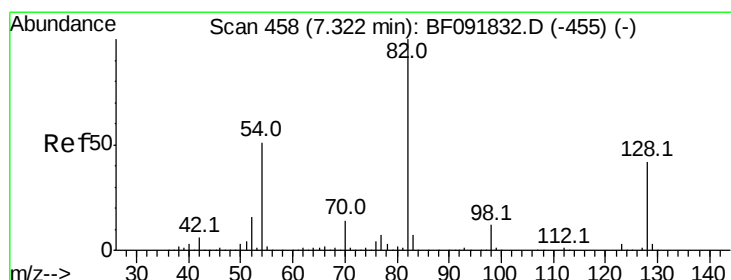
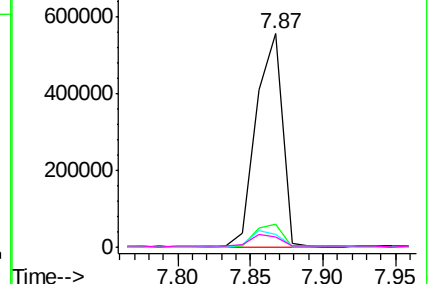
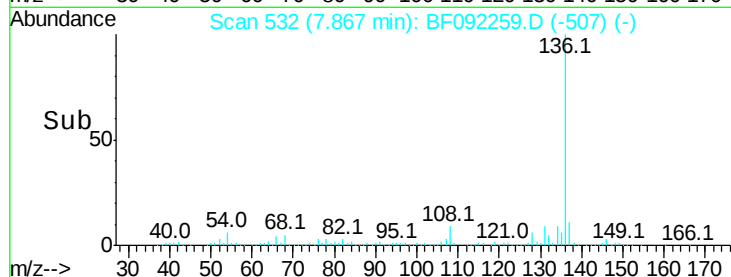


Abundance Ion 136.00 (135.70 to 136.70): E

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: 84.94 ng

RT: 7.15 min Scan# 469

Delta R.T. -0.01 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

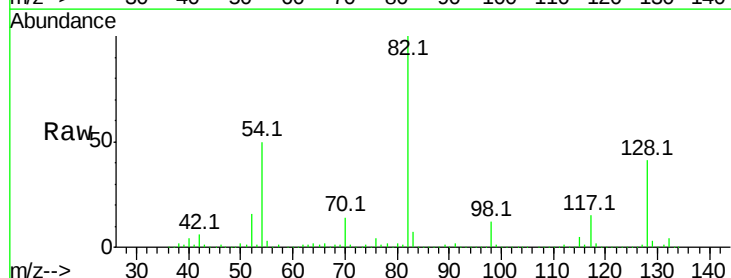
Tgt Ion: 82 Resp: 1062799

Ion Ratio Lower Upper

82 100

128 40.6 34.6 52.0

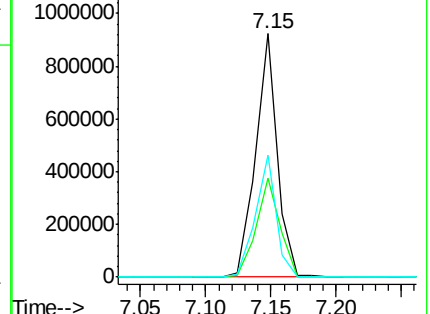
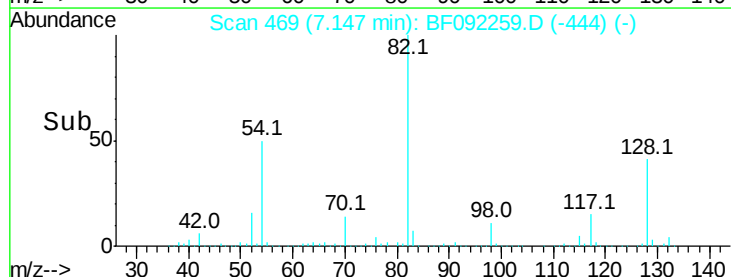
54 50.3 39.5 59.3

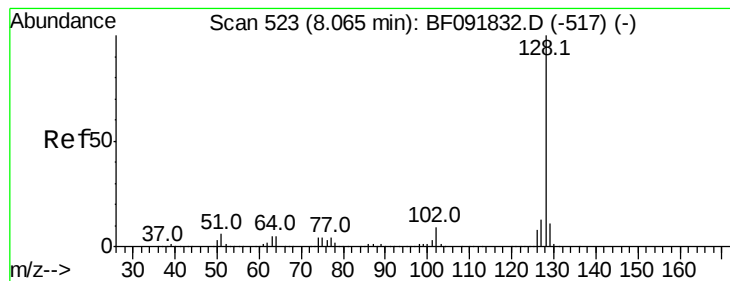


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 12.69 ng

RT: 7.88 min Scan# 533

Delta R.T. -0.02 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

Instrument :

BNA\_F

ClientSampleId :

MW-1

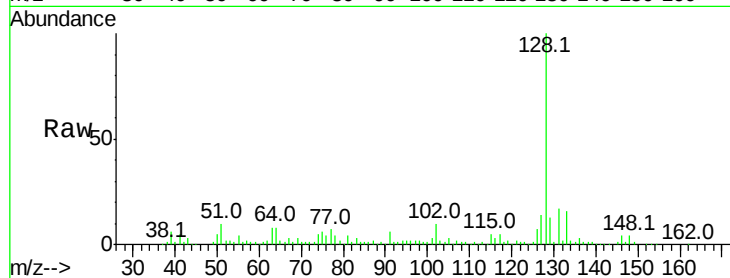
Tot Ion:128 Resp: 404185

Ion Ratio Lower Upper

128 100

129 13.2 9.5 14.3

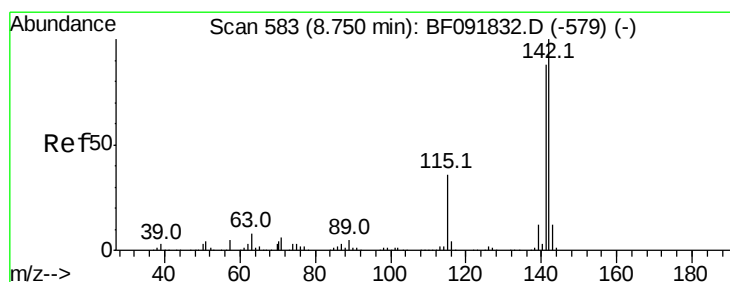
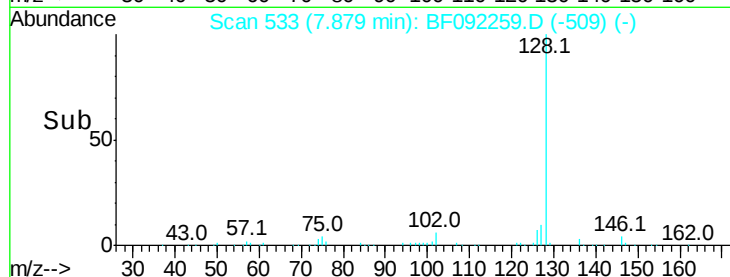
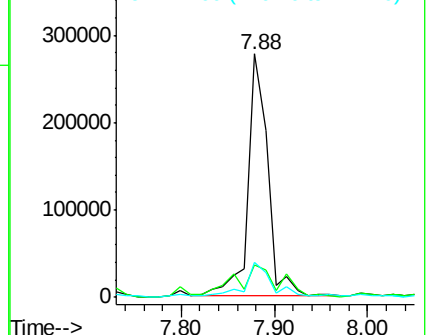
127 14.1 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 12.73 ng

RT: 8.58 min Scan# 594

Delta R.T. -0.01 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

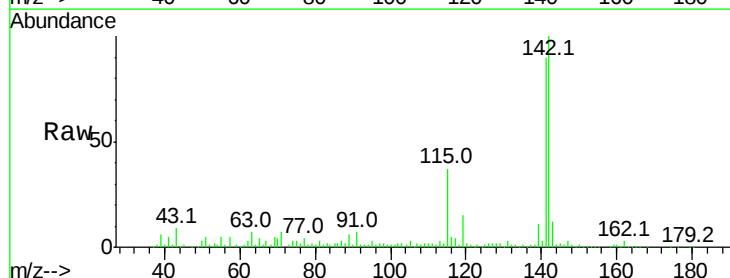
Tgt Ion:142 Resp: 314320

Ion Ratio Lower Upper

142 100

141 90.1 71.0 106.6

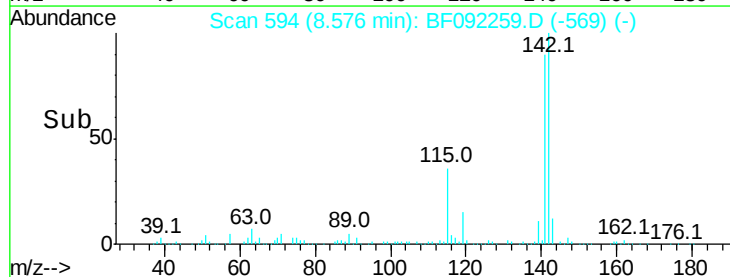
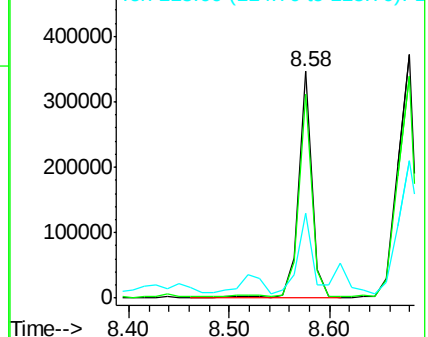
115 37.4 28.3 42.5

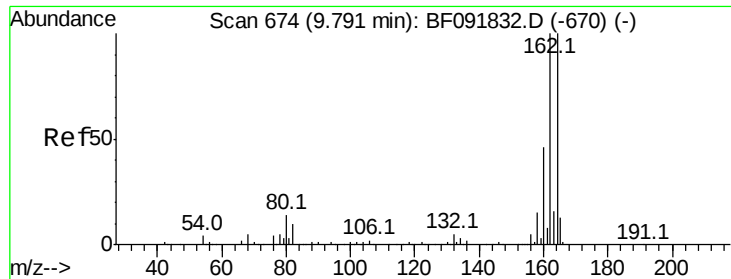


Abundance Ion 142.00 (141.70 to 142.70): E

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: 9.62 min Scan# 685

Delta R.T. -0.01 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

Instrument :

BNA\_F

ClientSampleId :

MW-1

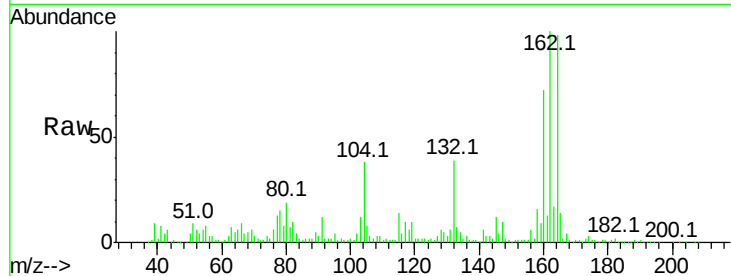
Tot Ion:164 Resp: 348850

Ion Ratio Lower Upper

164 100

162 101.6 80.2 120.2

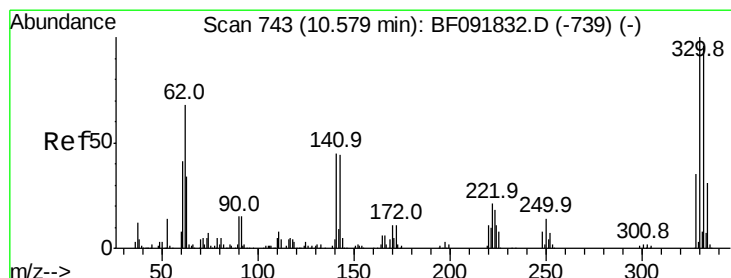
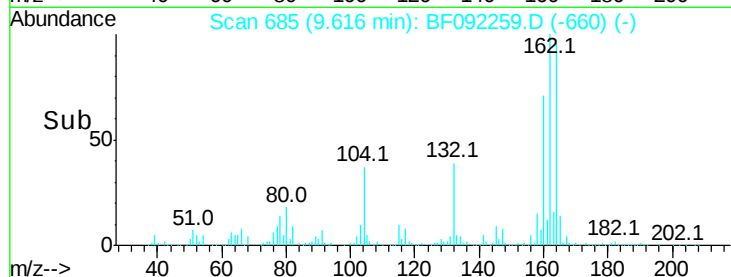
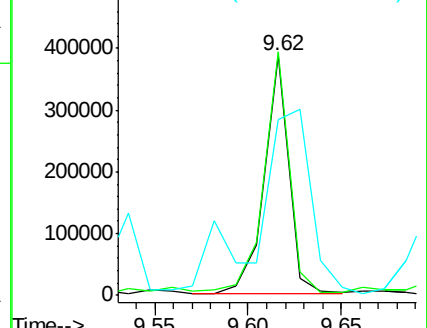
160 73.1 36.9 55.3#



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: 133.42 ng

RT: 10.42 min Scan# 755

Delta R.T. 0.00 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

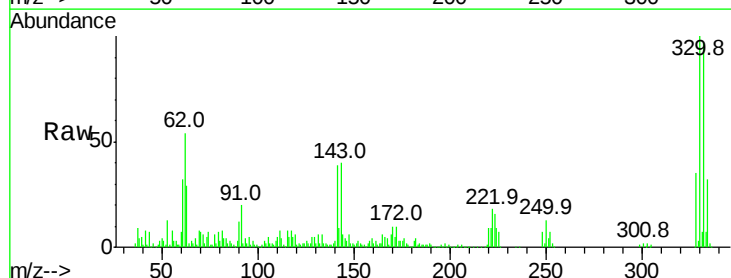
Tgt Ion:330 Resp: 385181

Ion Ratio Lower Upper

330 100

332 96.1 77.4 116.2

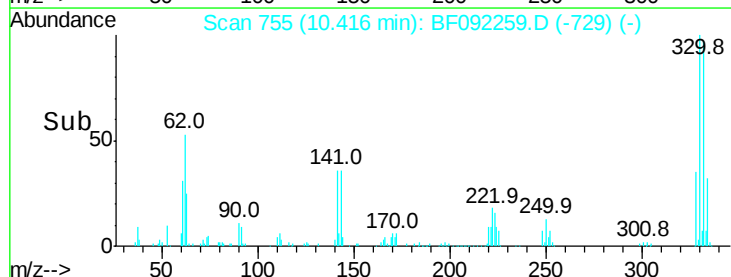
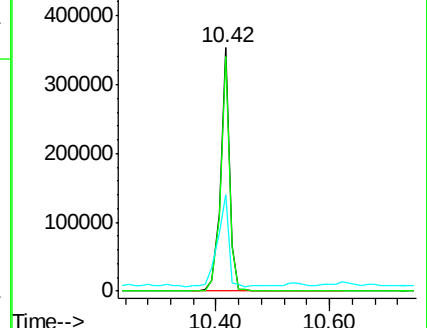
141 45.9 34.1 51.1

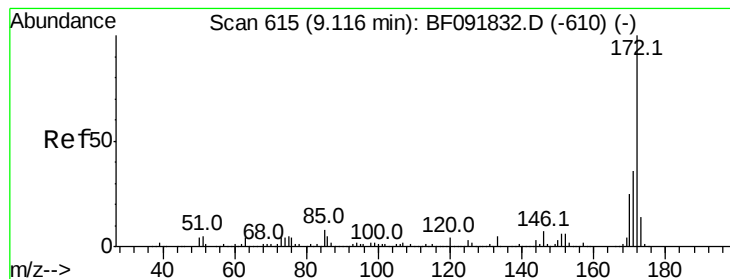


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

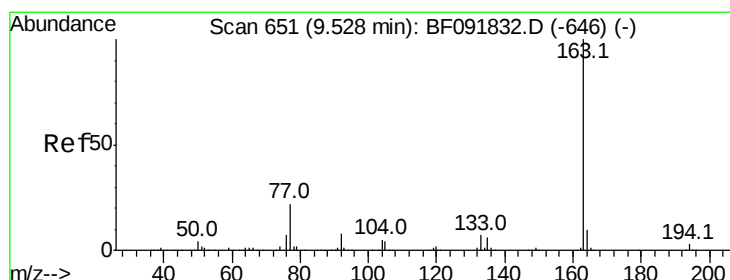
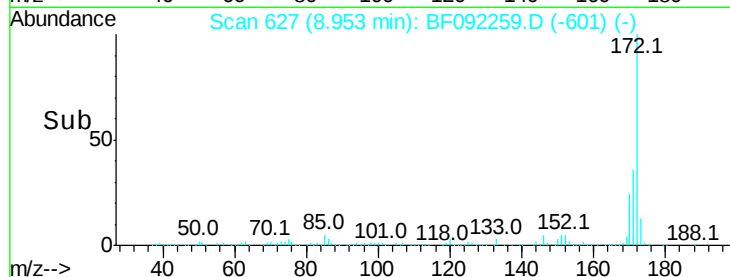
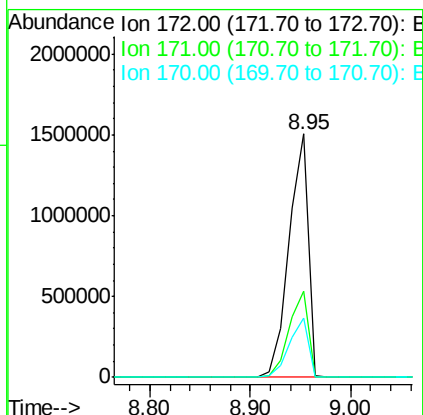
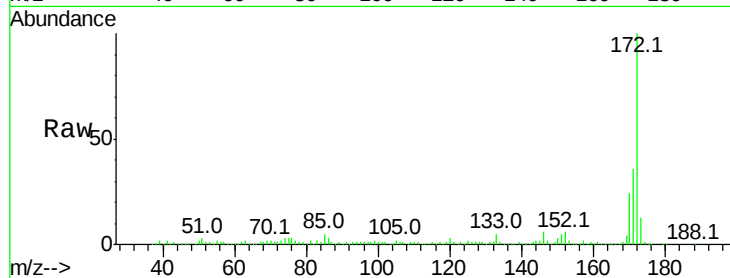




#44  
2-Fluorobiphenyl  
Concen: 122.84 ng  
RT: 8.95 min Scan# 627  
Delta R.T. 0.00 min  
Lab File: BF092259.D  
Acq: 13 Jan 2017 23:21

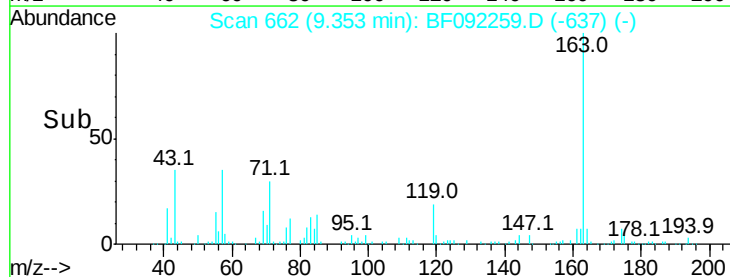
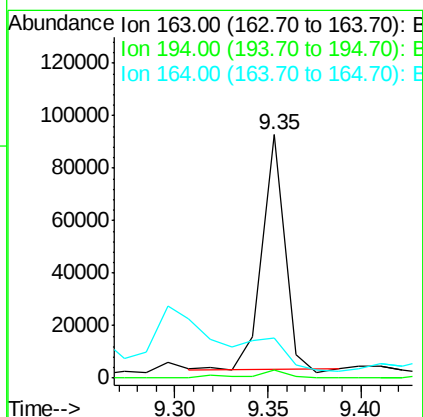
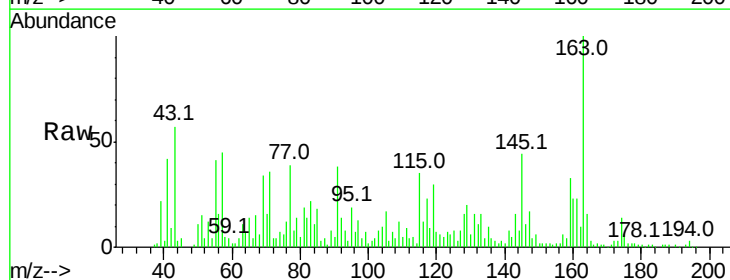
Instrument :  
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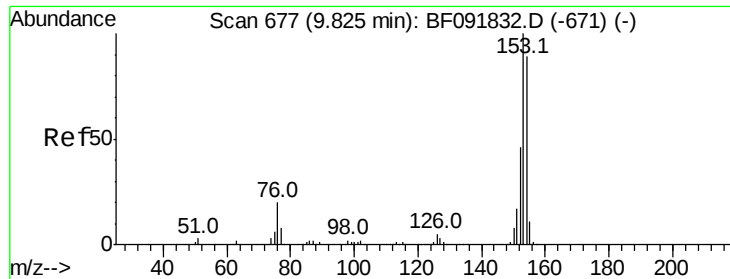
Tot Ion:172 Resp: 1993710  
Ion Ratio Lower Upper  
172 100  
171 35.6 29.4 44.0  
170 24.2 20.2 30.4



#49  
Dimethylphthalate  
Concen: 3.31 ng  
RT: 9.35 min Scan# 662  
Delta R.T. -0.01 min  
Lab File: BF092259.D  
Acq: 13 Jan 2017 23:21

Tgt Ion:163 Resp: 73868  
Ion Ratio Lower Upper  
163 100  
194 3.4 3.0 4.4  
164 16.4 8.0 12.0#





#51

Acenaphthene

Concen: 2.39 ng

RT: 9.65 min Scan# 688

Delta R.T. -0.01 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

Instrument :

BNA\_F

ClientSampleId :

MW-1

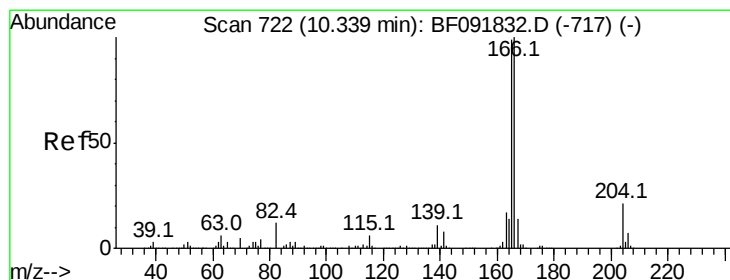
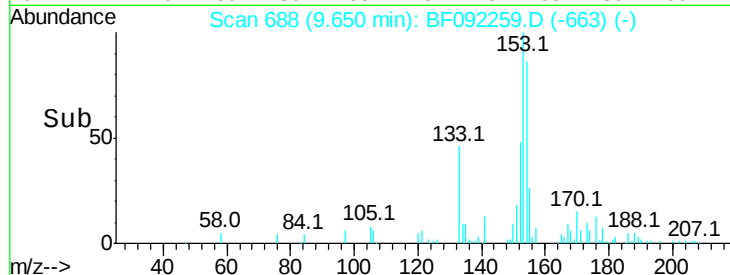
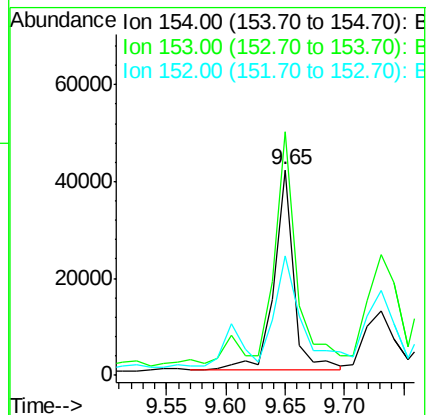
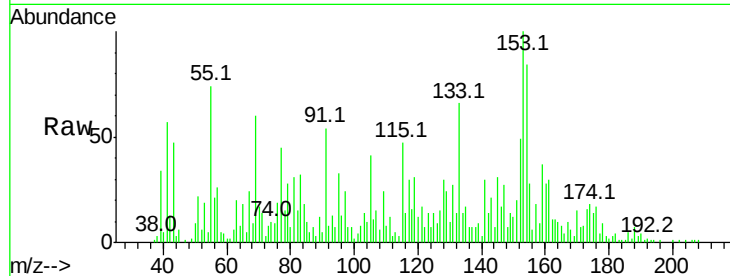
Tot Ion:154 Resp: 47150

Ion Ratio Lower Upper

154 100

153 118.7 88.6 133.0

152 58.2 41.6 62.4



#57

Fluorene

Concen: 4.23 ng

RT: 10.16 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

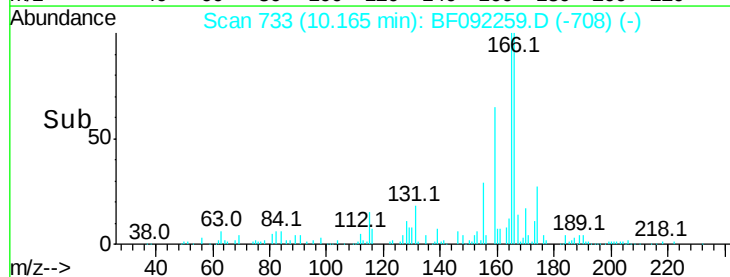
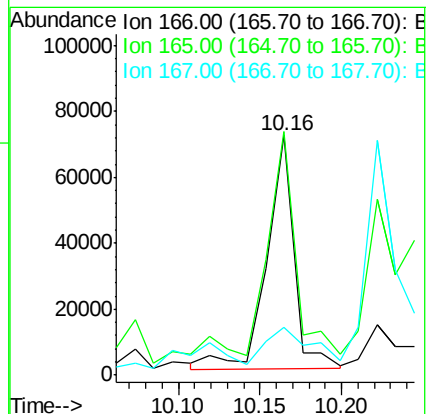
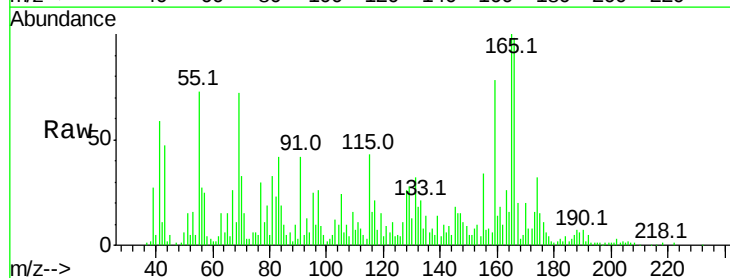
Tgt Ion:166 Resp: 81972

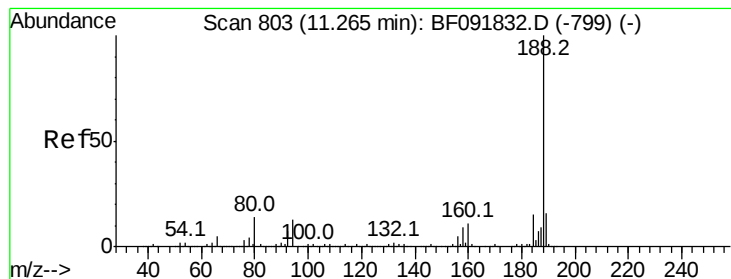
Ion Ratio Lower Upper

166 100

165 101.8 77.8 116.8

167 20.2 10.8 16.2#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.09 min Scan# 814

Delta R.T. -0.01 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

Instrument :

BNA\_F

ClientSampleId :

MW-1

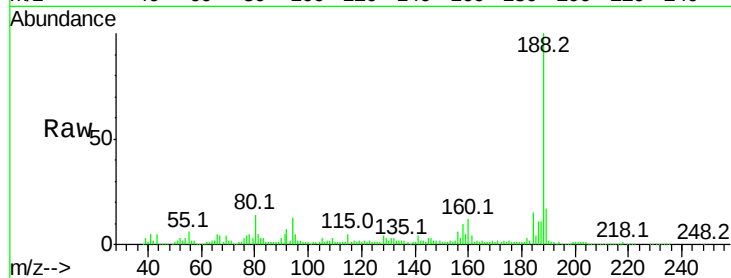
Tot Ion:188 Resp: 519549

Ion Ratio Lower Upper

188 100

94 12.8 10.0 15.0

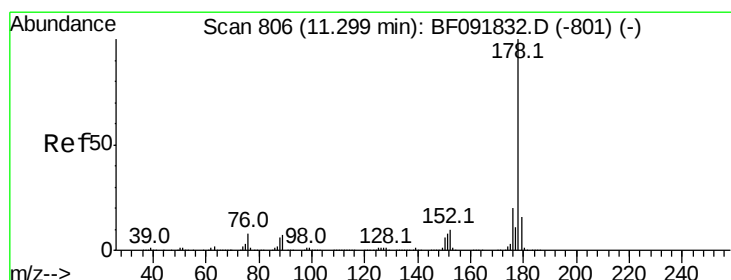
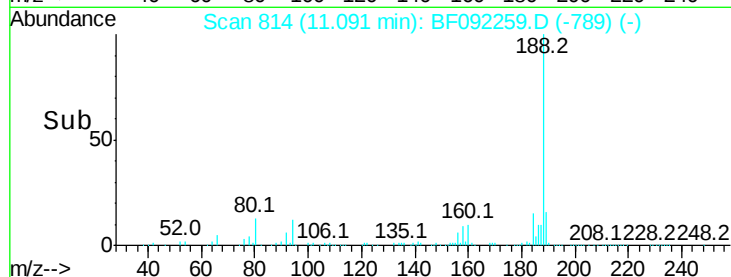
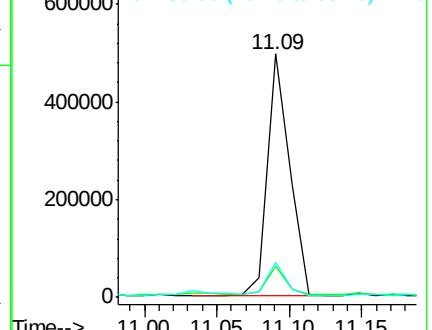
80 14.2 11.2 16.8



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



#70

Phenanthrene

Concen: 2.35 ng

RT: 11.11 min Scan# 816

Delta R.T. -0.01 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

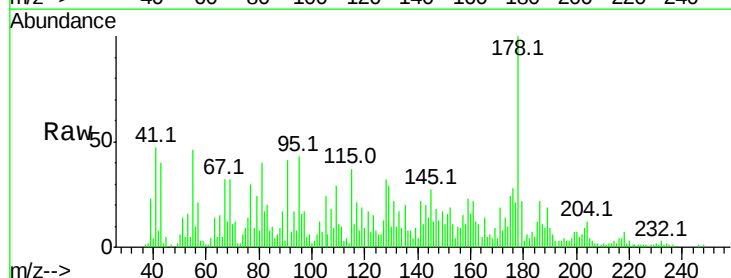
Tgt Ion:178 Resp: 66118

Ion Ratio Lower Upper

178 100

176 27.8 16.6 25.0#

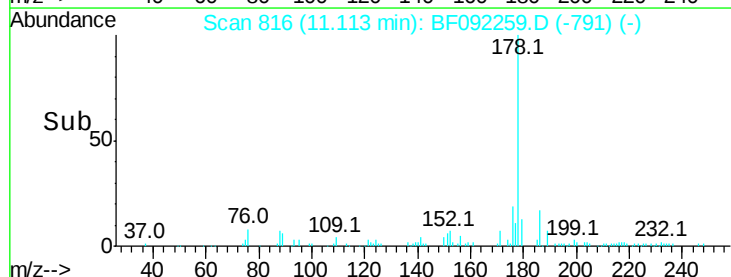
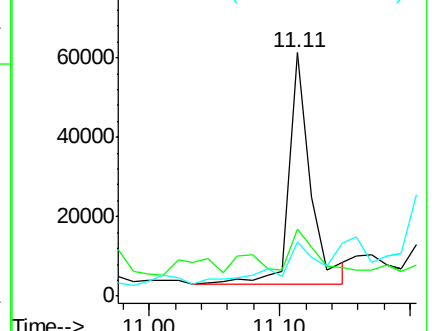
179 22.4 12.8 19.2#

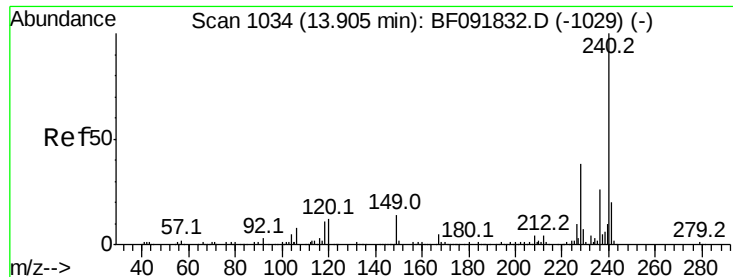


Abundance Ion 178.00 (177.70 to 178.70): E

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: 13.72 min Scan# 1044

Delta R.T. -0.01 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

Instrument :

BNA\_F

ClientSampleId :

MW-1

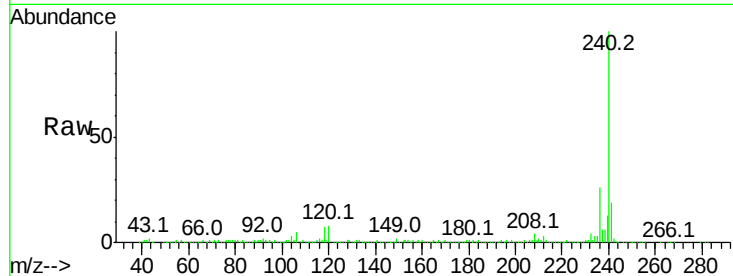
Tot Ion:240 Resp: 437887

Ion Ratio Lower Upper

240 100

120 7.9 12.9 19.3#

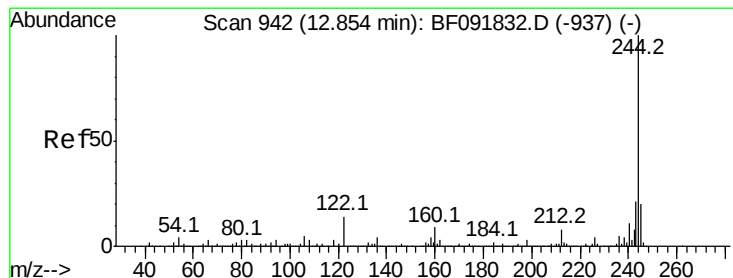
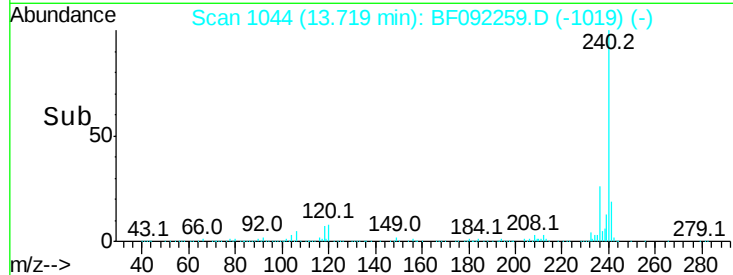
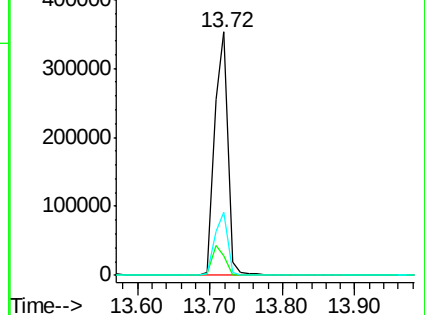
236 25.8 20.9 31.3



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: 82.86 ng

RT: 12.68 min Scan# 953

Delta R.T. -0.01 min

Lab File: BF092259.D

Acq: 13 Jan 2017 23:21

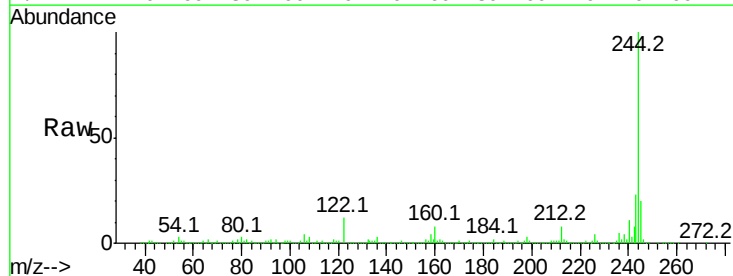
Tgt Ion:244 Resp: 1495966

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

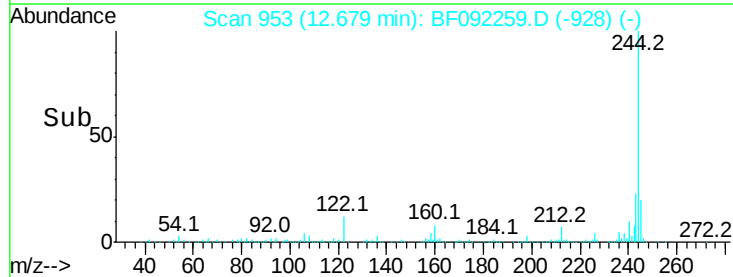
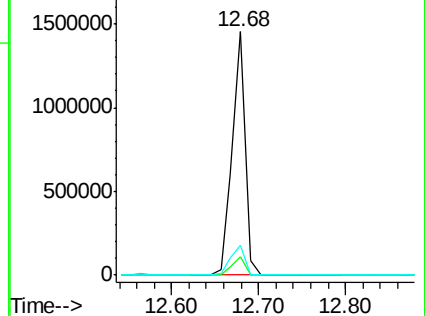
122 12.2 11.4 17.2

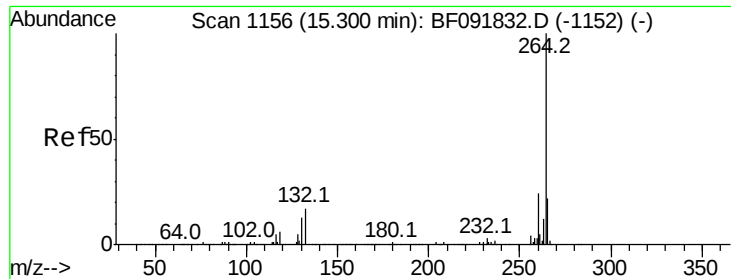


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.07 min Scan# 1162  
Delta R.T. -0.02 min  
Lab File: BF092259.D  
Acq: 13 Jan 2017 23:21

Instrument :  
BNA\_F  
ClientSampleId :  
MW-1

Tot Ion: 264 Resp: 347481  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.5  | 19.2  | 28.8  |
| 265 | 21.4  | 17.4  | 26.0  |

