

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062516\  
 Data File : BF088391.D  
 Acq On : 25 Jun 2016 22:03  
 Operator : UM/SJ  
 Sample : H3629-06  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOCATION-5D(9-11)

Quant Time: Jun 26 02:00:45 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 22 14:55:14 2016  
 Response via : Initial Calibration

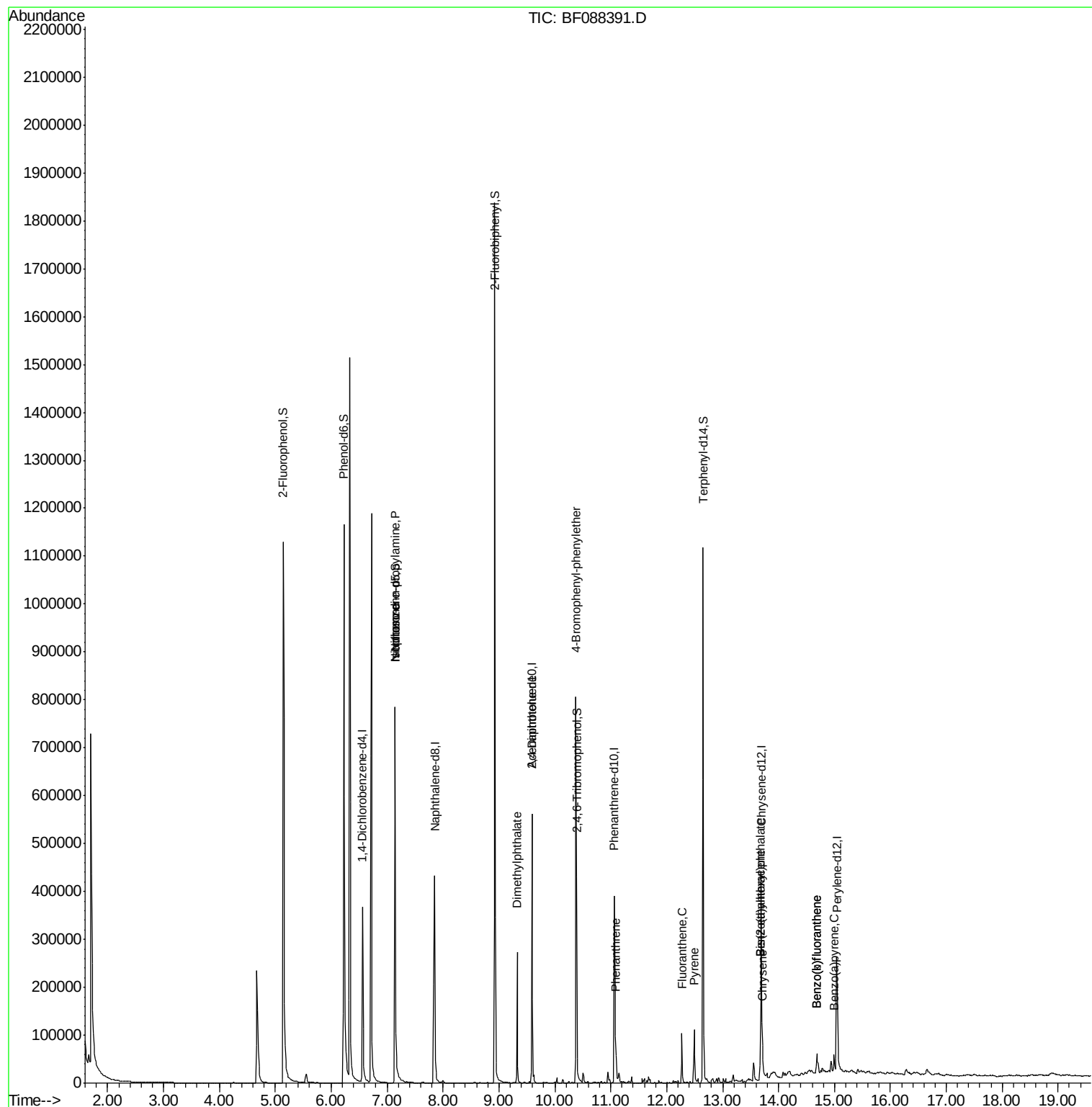
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.56  | 152  | 73188    | 20.00     | ng    | -0.05    |
| 21) Naphthalene-d8             | 7.85  | 136  | 277700   | 20.00     | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.59  | 164  | 120770   | 20.00     | ng    | -0.06    |
| 63) Phenanthrene-d10           | 11.06 | 188  | 191616   | 20.00     | ng    | -0.06    |
| 75) Chrysene-d12               | 13.69 | 240  | 154872   | 20.00     | ng    | -0.06    |
| 86) Perylene-d12               | 15.04 | 264  | 120318   | 20.00     | ng    | -0.07    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.14  | 112  | 524459   | 122.50    | ng    | -0.03    |
| 7) Phenol-d6                   | 6.23  | 99   | 628294   | 121.10    | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 7.14  | 82   | 410976   | 86.42     | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol       | 10.39 | 330  | 129996   | 101.94    | ng    | -0.05    |
| 44) 2-Fluorobiphenyl           | 8.92  | 172  | 646307   | 84.00     | ng    | -0.05    |
| 78) Terphenyl-d14              | 12.65 | 244  | 453864   | 66.69     | ng    | -0.05    |
| Target Compounds               |       |      |          |           |       |          |
| 10) Phenol                     | 6.24  | 94   | 2082     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.14  | 70   | 50510    | 15.22     | ng    | # 66     |
| 25) Isophorone                 | 7.14  | 82   | 408219   | 46.34     | ng    | # 65     |
| 45) 1,1'-Biphenyl              | 9.03  | 154  | 245      | Below Cal | #     | 43       |
| 49) Dimethylphthalate          | 9.32  | 163  | 114120   | 13.04     | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.59  | 165  | 14977    | 5.82      | ng    | # 36     |
| 57) Fluorene                   | 10.14 | 166  | 2748     | Below Cal |       | 98       |
| 66) 4-Bromophenyl-phenylether  | 10.38 | 248  | 7796     | 3.79      | ng    | # 1      |
| 70) Phenanthrene               | 11.08 | 178  | 39595    | 3.94      | ng    | 99       |
| 74) Fluoranthene               | 12.27 | 202  | 53670    | 5.06      | ng    | 95       |
| 77) Pyrene                     | 12.49 | 202  | 56627    | 4.93      | ng    | 96       |
| 80) Benzo(a)anthracene         | 13.68 | 228  | 26637    | 3.02      | ng    | 98       |
| 82) Chrysene                   | 13.71 | 228  | 21585    | 2.60      | ng    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 13.68 | 149  | 22704    | 3.67      | ng    | # 98     |
| 87) Benzo(b)fluoranthene       | 14.69 | 252  | 30439    | 3.63      | ng    | # 94     |
| 88) Benzo(k)fluoranthene       | 14.69 | 252  | 30439    | 4.81      | ng    | 99       |
| 89) Benzo(a)pyrene             | 14.99 | 252  | 17214    | 2.54      | ng    | 98       |

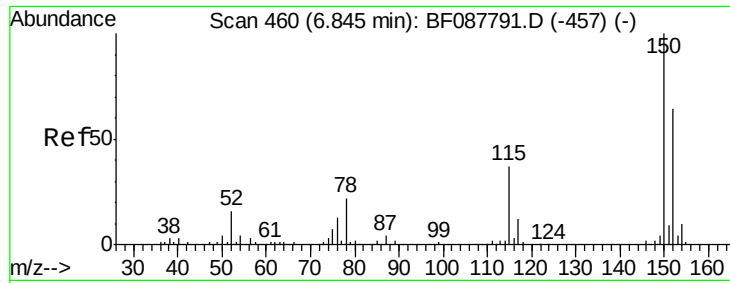
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.56 min Scan# 435

Delta R.T. -0.05 min

Lab File: BF088391.D

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Instrument :

BNA\_F

ClientSampleId :

LOCATION-5D(9-11)

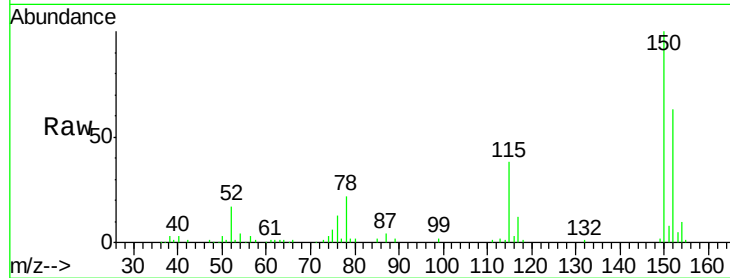
Tgt Ion:152 Resp: 73188

Ion Ratio Lower Upper

152 100

150 159.9 123.8 185.6

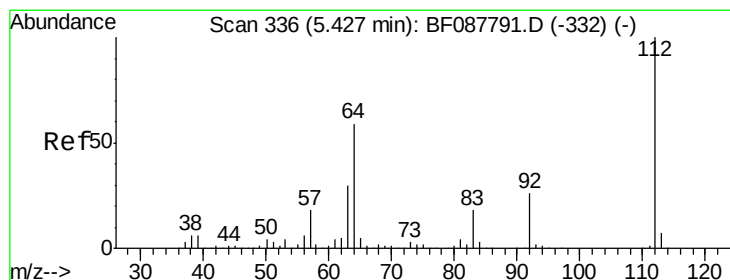
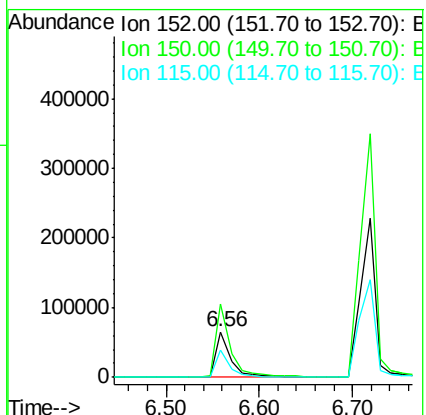
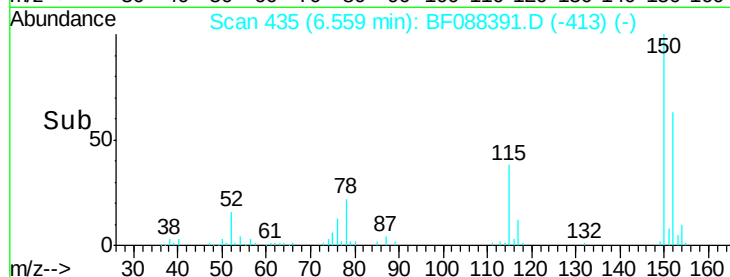
115 61.2 39.6 59.4#



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: 122.50 ng

RT: 5.14 min Scan# 311

Delta R.T. -0.03 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

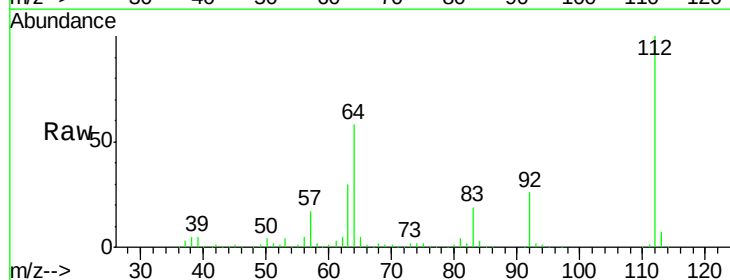
Tgt Ion:112 Resp: 524459

Ion Ratio Lower Upper

112 100

64 57.5 42.2 63.2

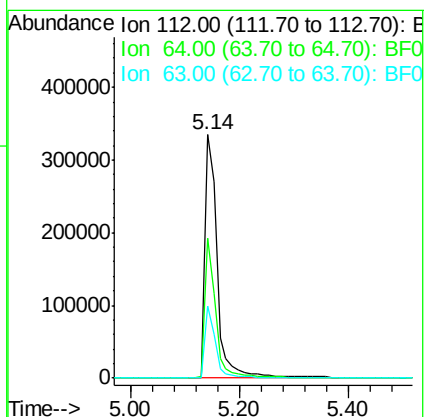
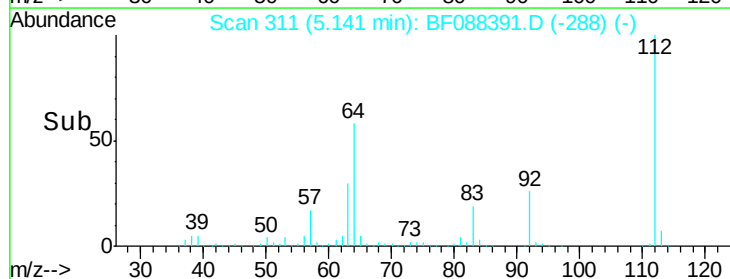
63 29.6 21.8 32.8

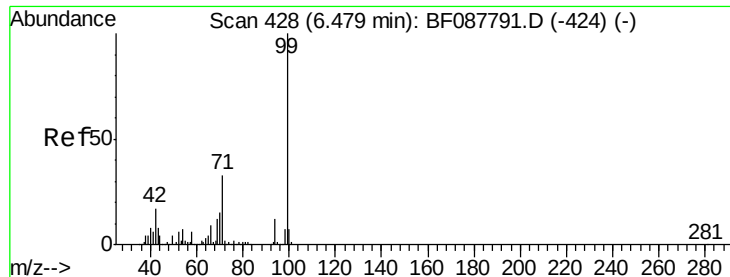


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 121.10 ng

RT: 6.23 min Scan# 406

Delta R.T. -0.03 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

Instrument :

BNA\_F

ClientSampleId :

LOCATION-5D(9-11)

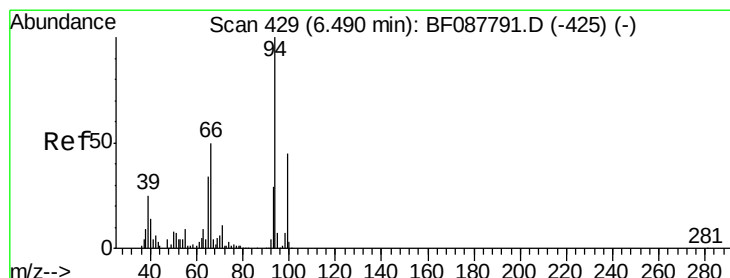
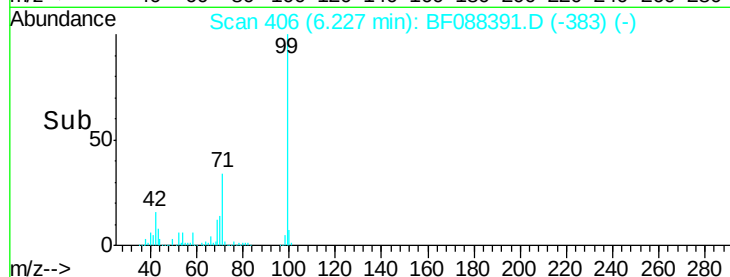
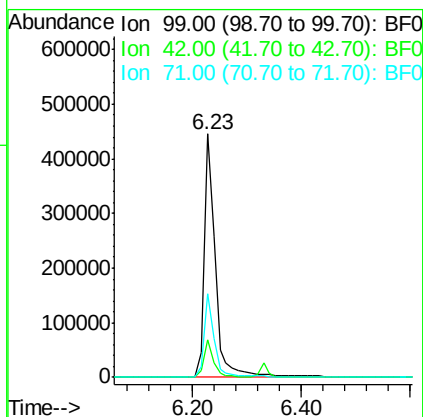
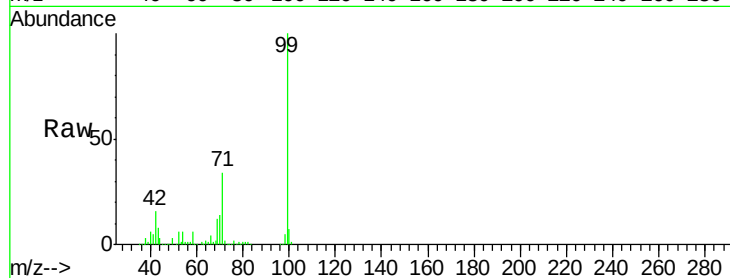
Tgt Ion: 99 Resp: 628294

Ion Ratio Lower Upper

99 100

42 15.6 12.2 18.2

71 34.4 23.4 35.0



#10

Phenol

Concen: Below Cal

RT: 6.24 min Scan# 407

Delta R.T. -0.03 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

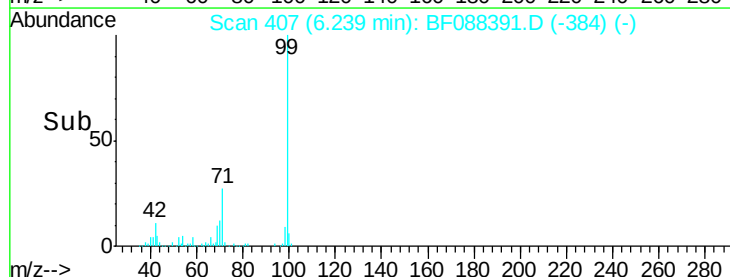
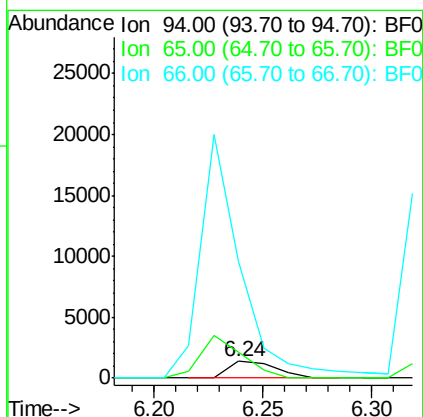
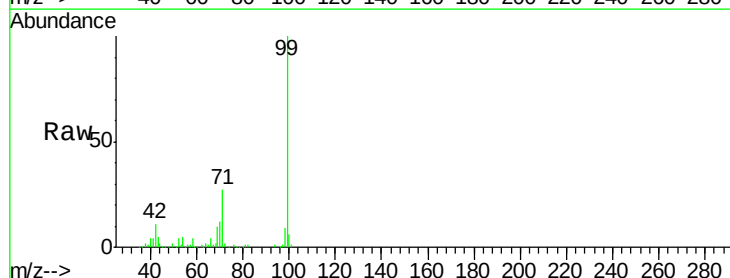
Tgt Ion: 94 Resp: 2082

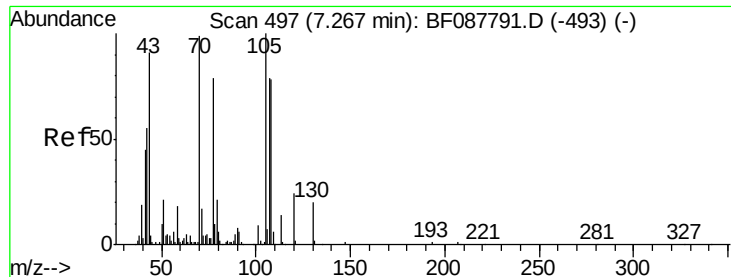
Ion Ratio Lower Upper

94 100

65 158.7 5.9 45.9#

66 708.9 14.0 54.0#

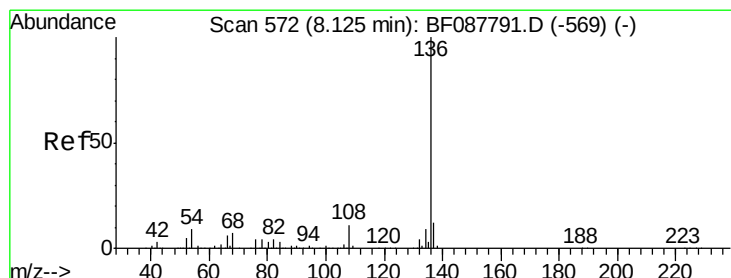
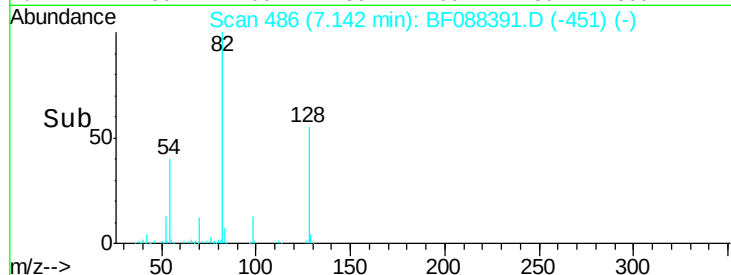
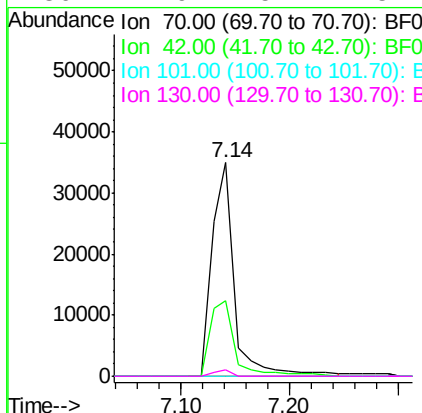
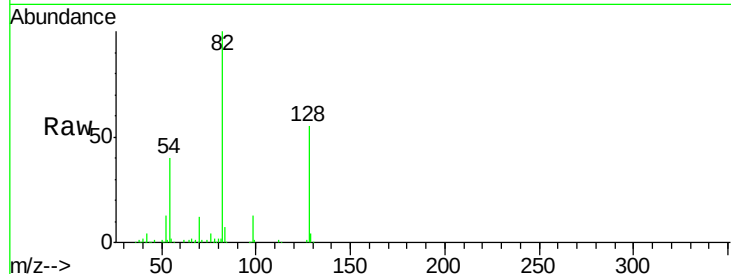




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.22 ng  
RT: 7.14 min Scan# 486  
Delta R.T. 0.10 min  
Lab File: BF088391.D  
Acq: 25 Jun 2016 22:03

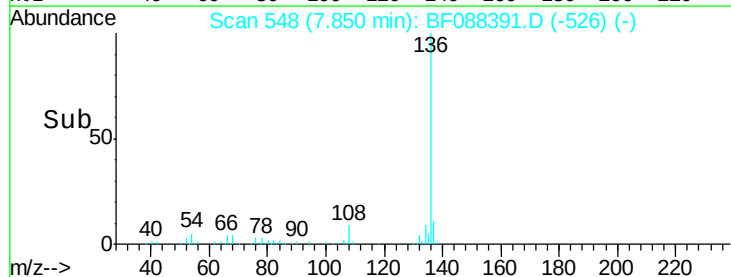
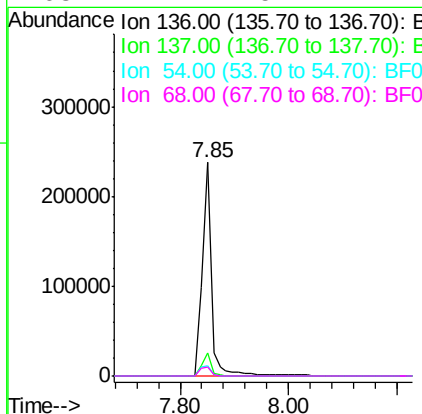
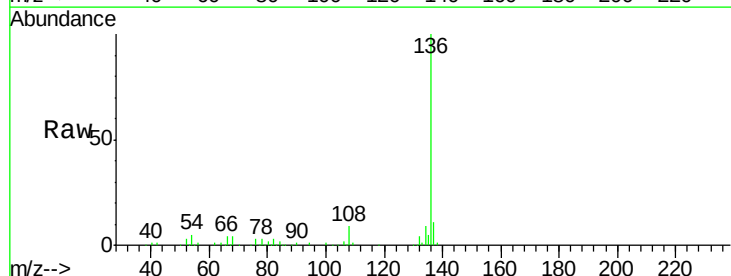
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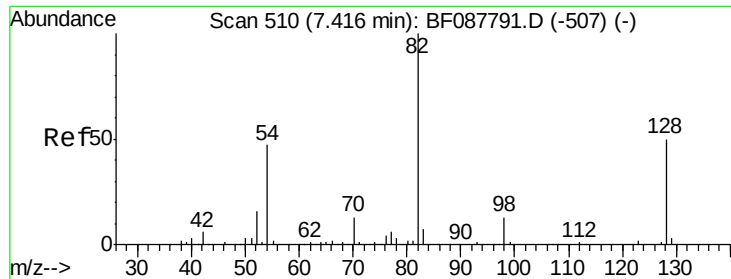
Tgt Ion: 70 Resp: 50510  
Ion Ratio Lower Upper  
70 100  
42 35.3 49.6 74.4#  
101 0.0 7.1 10.7#  
130 2.9 15.4 23.2#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.85 min Scan# 548  
Delta R.T. -0.05 min  
Lab File: BF088391.D  
Acq: 25 Jun 2016 22:03

Tgt Ion: 136 Resp: 277700  
Ion Ratio Lower Upper  
136 100  
137 10.5 9.1 13.7  
54 5.1 6.6 10.0#  
68 4.4 5.1 7.7#

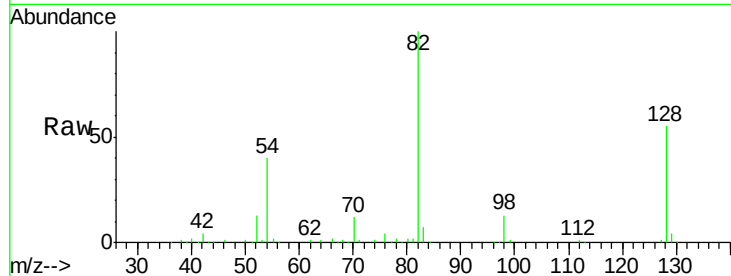




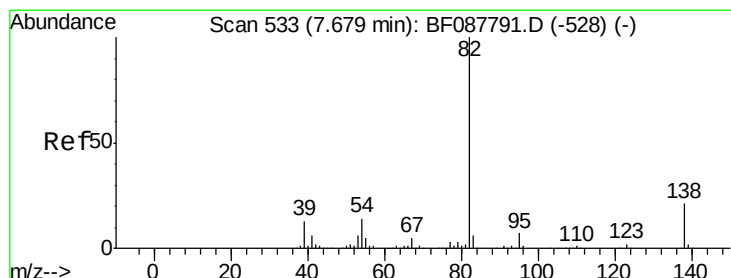
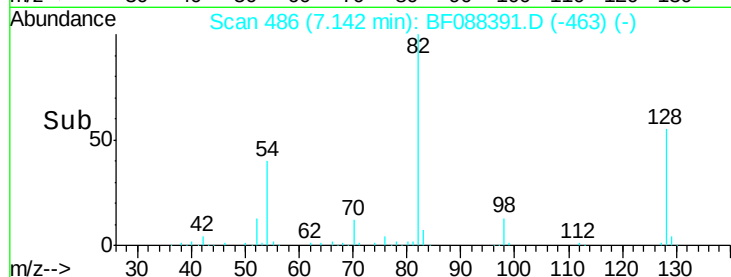
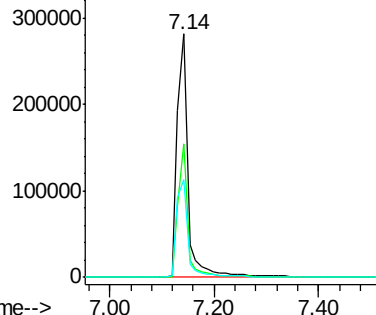
#23  
 Nitrobenzene-d5  
 Concen: 86.42 ng  
 RT: 7.14 min Scan# 486  
 Delta R.T. -0.03 min  
 Lab File: BF088391.D  
 Acq: 25 Jun 2016 22:03

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOCATION-5D(9-11)

Tgt Ion: 82 Resp: 410976  
 Ion Ratio Lower Upper  
 82 100  
 128 54.6 35.9 53.9#  
 54 40.4 40.9 61.3#

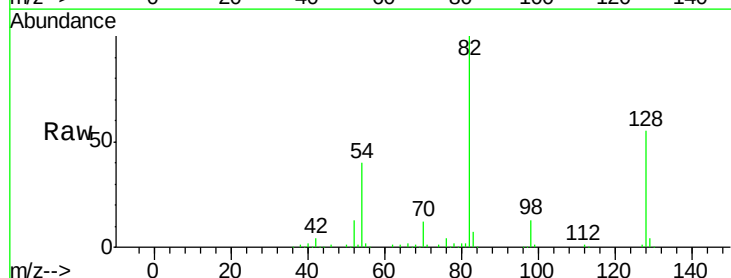


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

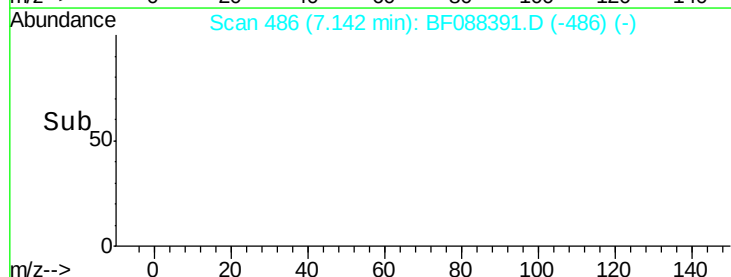
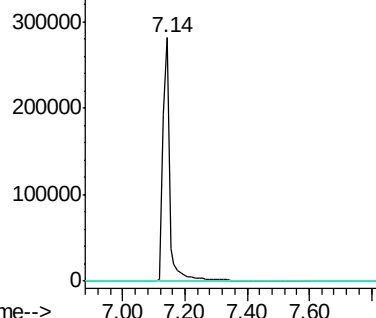


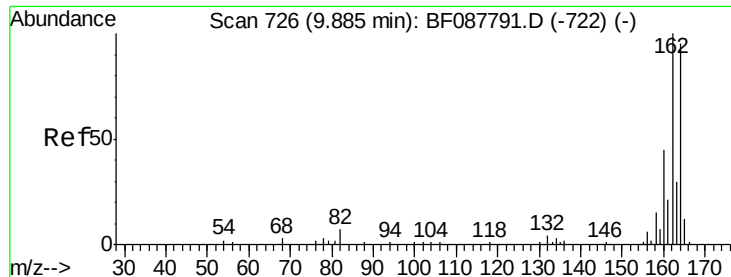
#25  
 Isophorone  
 Concen: 46.34 ng  
 RT: 7.14 min Scan# 486  
 Delta R.T. -0.30 min  
 Lab File: BF088391.D  
 Acq: 25 Jun 2016 22:03

Tgt Ion: 82 Resp: 408219  
 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): BF0

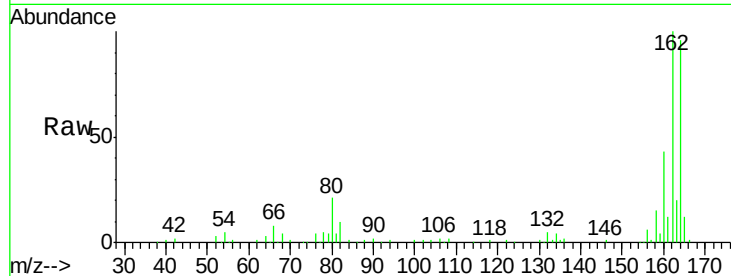




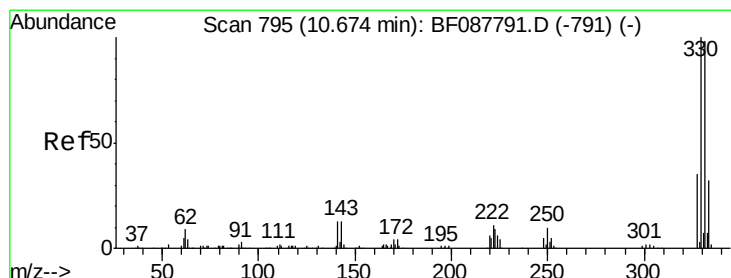
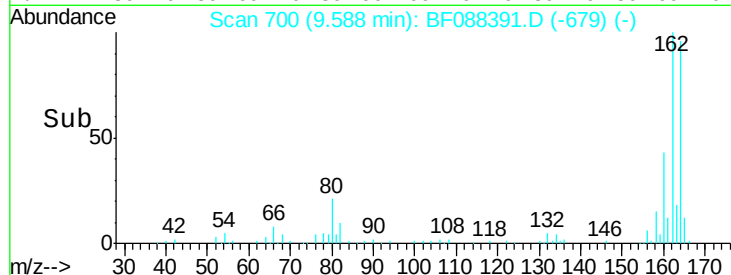
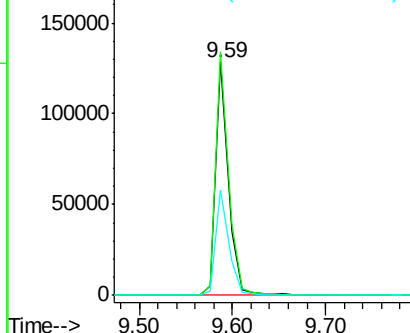
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.59 min Scan# 700  
Delta R.T. -0.06 min  
Lab File: BF088391.D  
Acq: 25 Jun 2016 22:03

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Tgt Ion:164 Resp: 120770  
Ion Ratio Lower Upper  
164 100  
162 104.4 85.4 128.2  
160 45.2 39.5 59.3

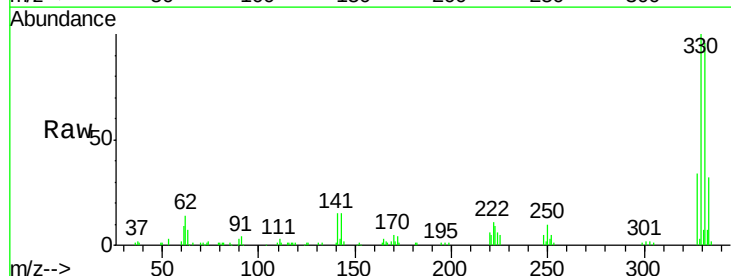


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

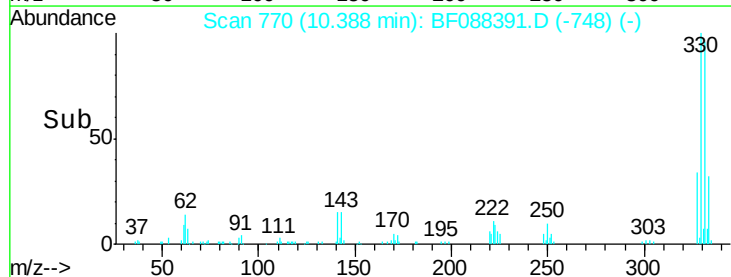
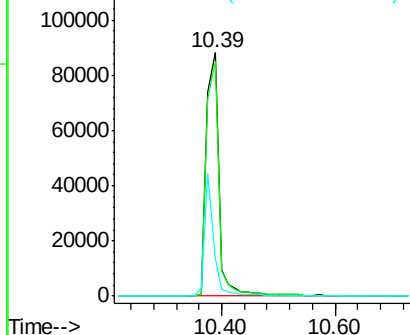


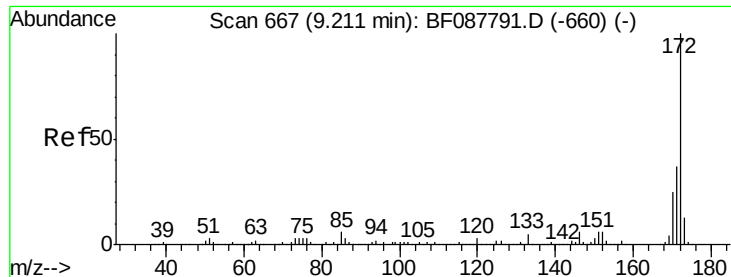
#41  
2,4,6-Tribromophenol  
Concen: 101.94 ng  
RT: 10.39 min Scan# 770  
Delta R.T. -0.05 min  
Lab File: BF088391.D  
Acq: 25 Jun 2016 22:03

Tgt Ion:330 Resp: 129996  
Ion Ratio Lower Upper  
330 100  
332 96.3 0.0 0.0#  
141 35.8 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

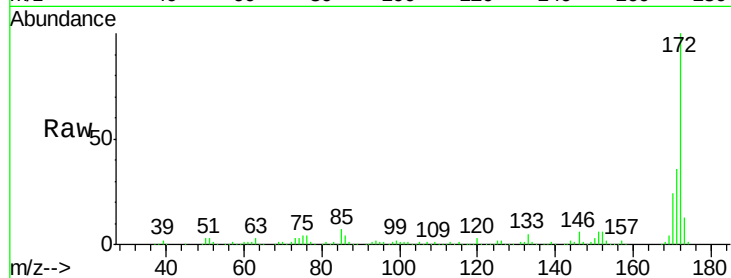




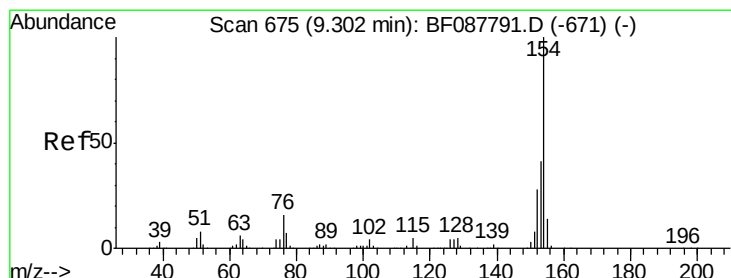
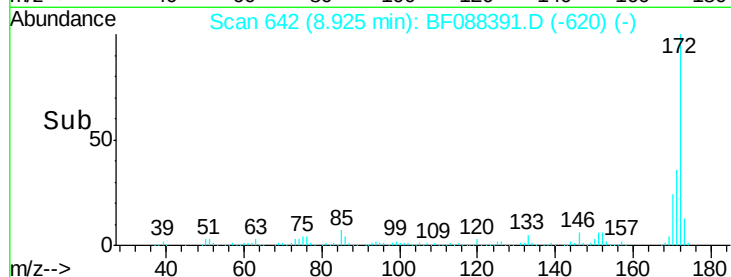
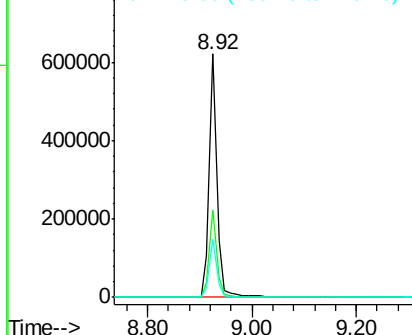
#44  
 2-Fluorobiphenyl  
 Concen: 84.00 ng  
 RT: 8.92 min Scan# 642  
 Delta R.T. -0.05 min  
 Lab File: BF088391.D  
 Acq: 25 Jun 2016 22:03

Instrument :  
 BNA\_F  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 28.6  | 43.0  |
| 170     | 24.0  | 19.2  | 28.8  |

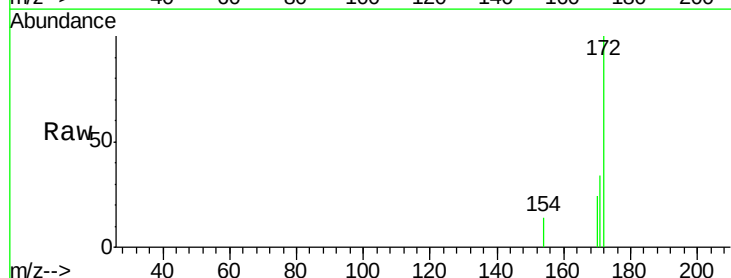


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

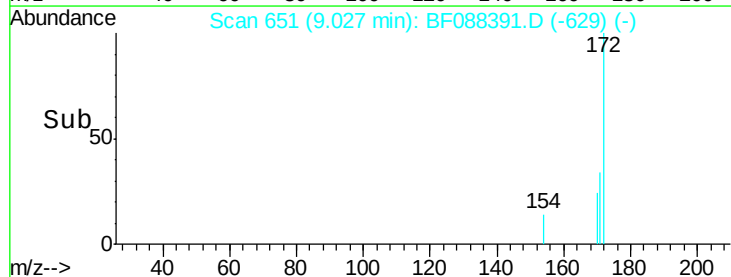
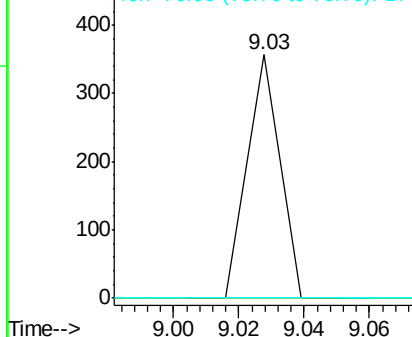


#45  
 1,1'-Biphenyl  
 Concen: Below Cal  
 RT: 9.03 min Scan# 651  
 Delta R.T. -0.05 min  
 Lab File: BF088391.D  
 Acq: 25 Jun 2016 22:03

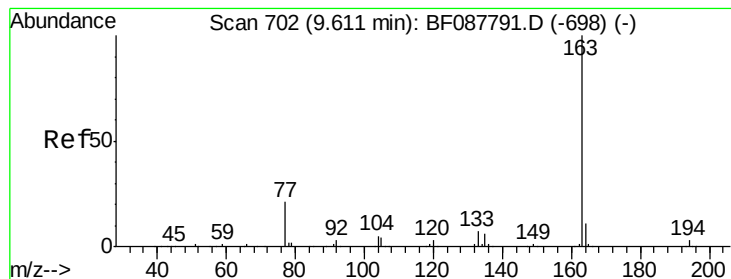
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 0.0   | 20.6  | 60.6# |
| 76      | 0.0   | 0.0   | 35.1  |



Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BF0







#49

Dimethylphthalate

Concen: 13.04 ng

RT: 9.32 min Scan# 677

Delta R.T. -0.06 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

Instrument :

BNA\_F

ClientSampleId :

LOCATION-5D(9-11)

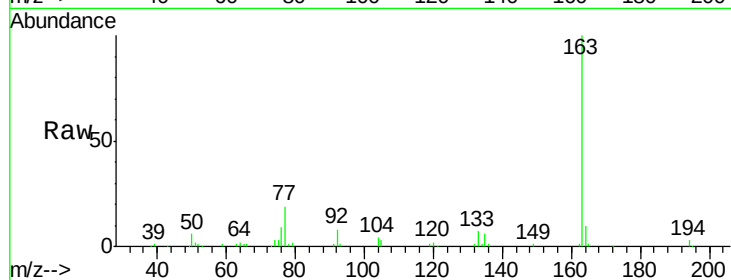
Tgt Ion:163 Resp: 114120

Ion Ratio Lower Upper

163 100

194 3.2 2.8 4.2

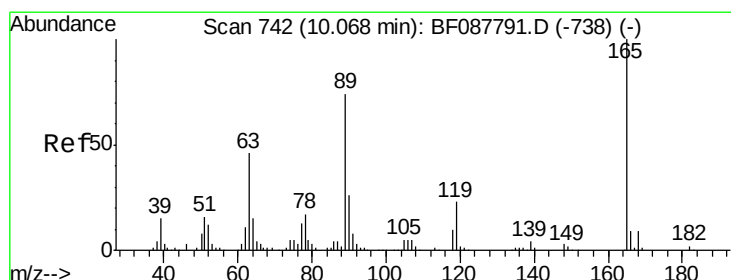
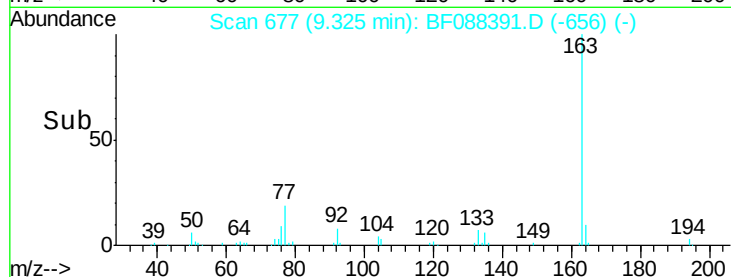
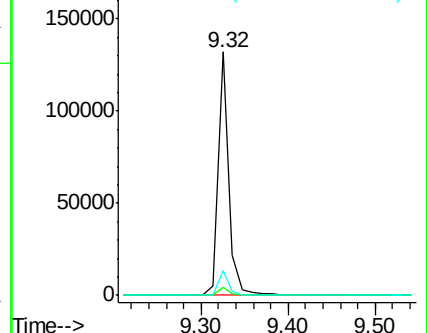
164 10.2 8.3 12.5



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: 5.82 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.26 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

Tgt Ion:165 Resp: 14977

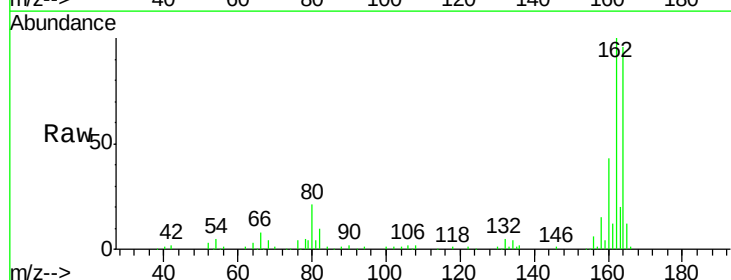
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 0.0 41.1 61.7#

182 0.0 2.0 3.0#

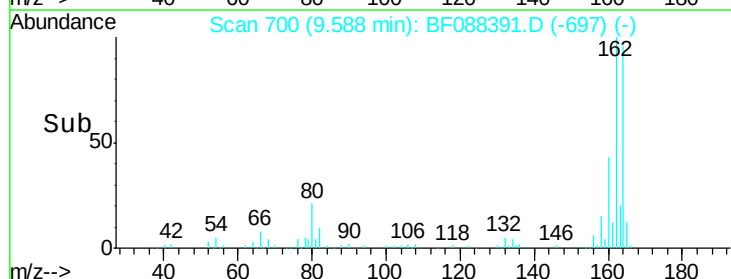
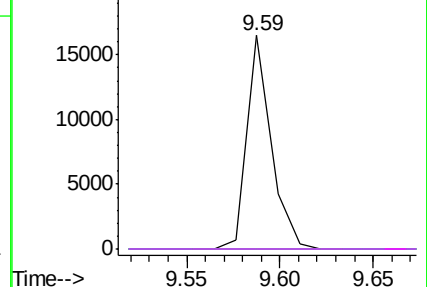


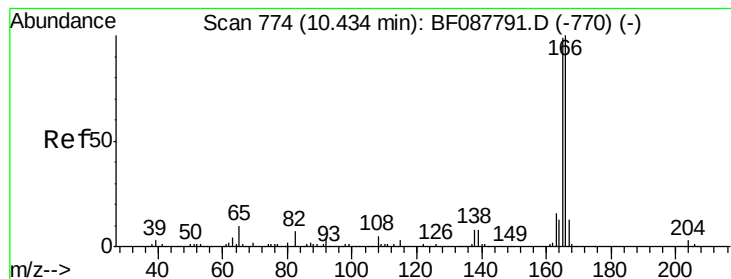
Abundance Ion 165.00 (164.70 to 165.70): E

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





#57

Fluorene

Concen: Below Cal

RT: 10.14 min Scan# 748

Delta R.T. -0.06 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

Instrument :

BNA\_F

ClientSampleId :

LOCATION-5D(9-11)

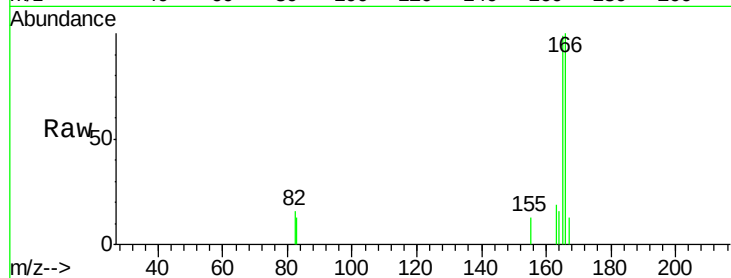
Tgt Ion:166 Resp: 2748

Ion Ratio Lower Upper

166 100

165 99.5 77.8 116.8

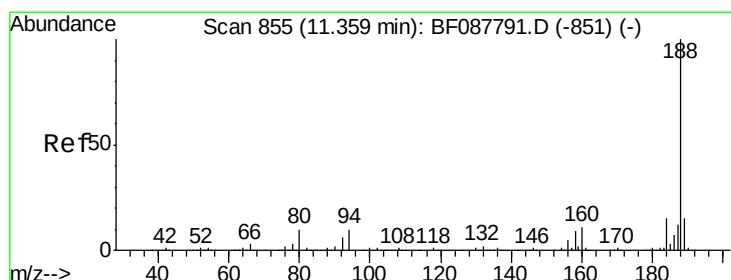
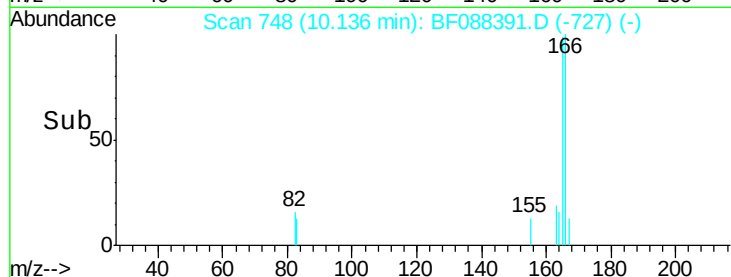
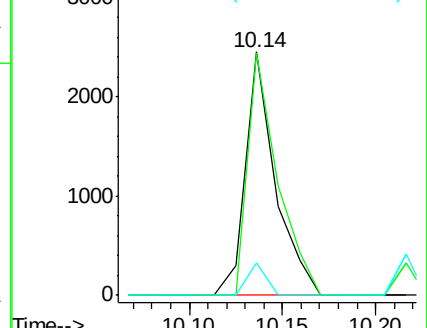
167 13.4 11.2 16.8



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: 11.06 min Scan# 829

Delta R.T. -0.06 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

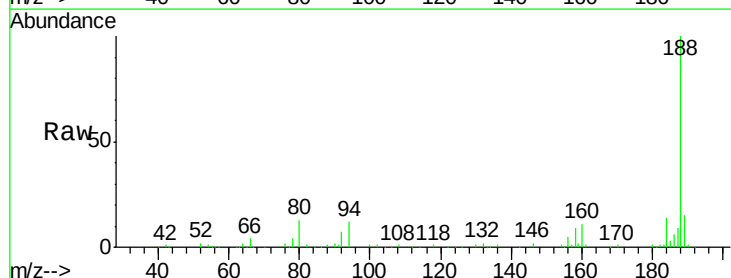
Tgt Ion:188 Resp: 191616

Ion Ratio Lower Upper

188 100

94 11.9 9.0 13.6

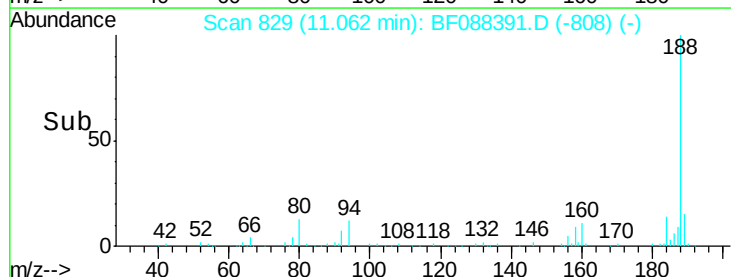
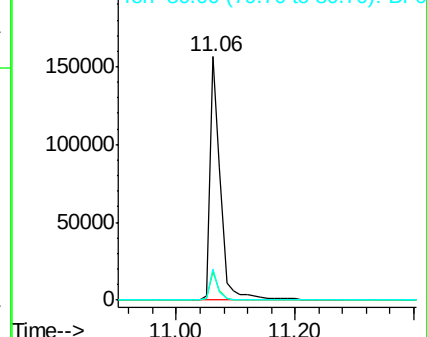
80 12.7 10.0 15.0

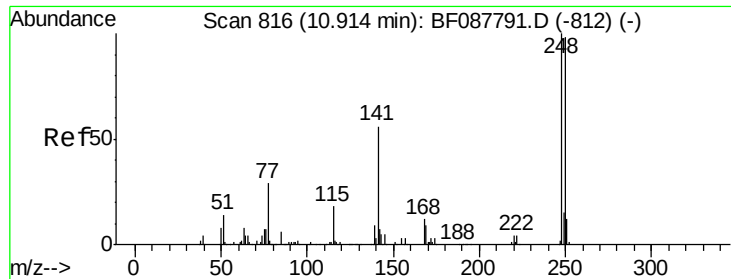


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

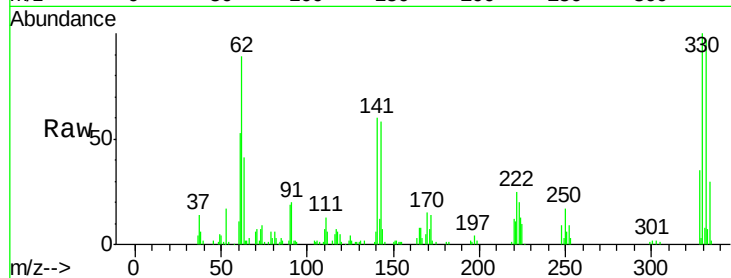




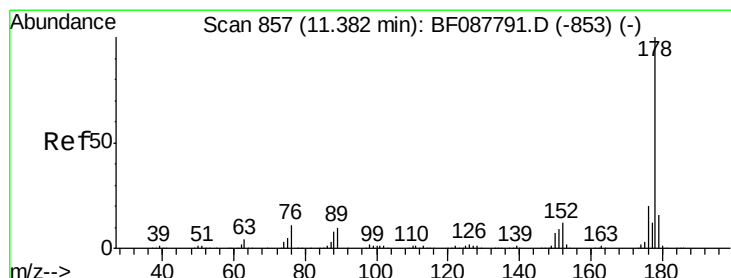
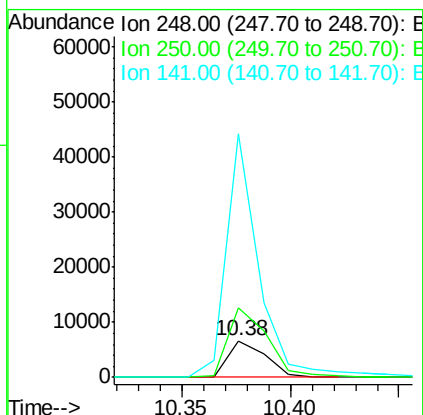
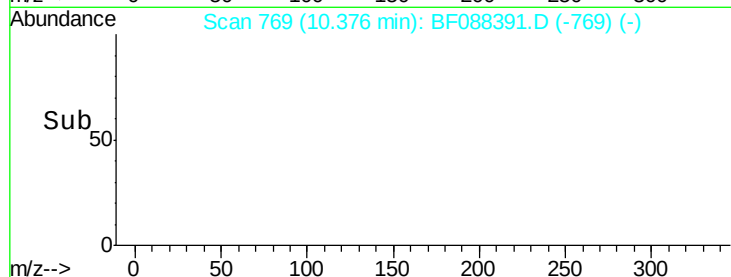
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.79 ng  
 RT: 10.38 min Scan# 769  
 Delta R.T. -0.30 min  
 Lab File: BF088391.D  
 Acq: 25 Jun 2016 22:03

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOCATION-5D(9-11)

Tgt Ion:248 Resp: 7796  
 Ion Ratio Lower Upper  
 248 100  
 250 190.4 77.1 115.7#  
 141 666.1 50.6 76.0#

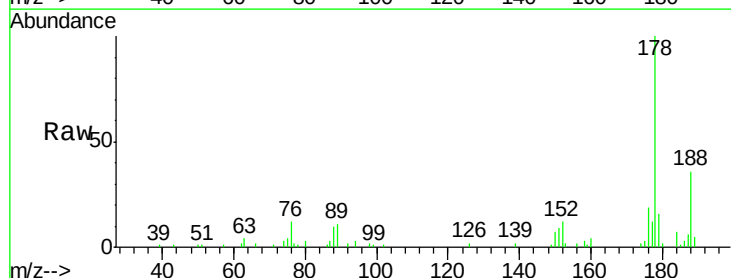


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

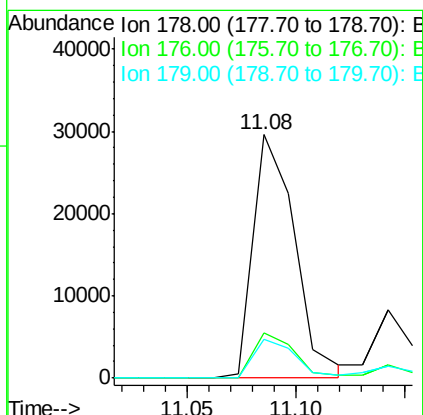
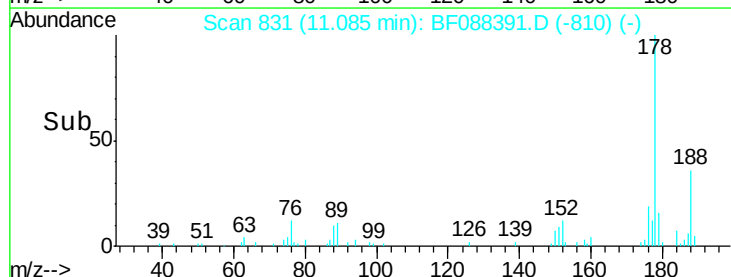


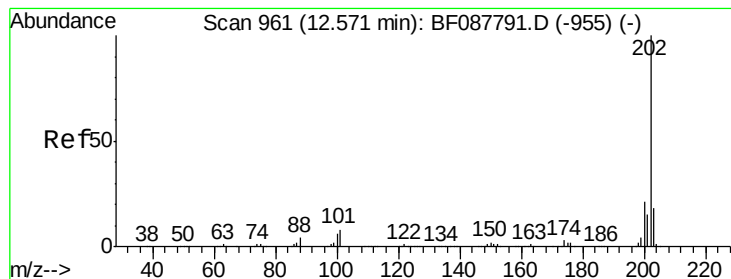
#70  
 Phenanthrene  
 Concen: 3.94 ng  
 RT: 11.08 min Scan# 831  
 Delta R.T. -0.06 min  
 Lab File: BF088391.D  
 Acq: 25 Jun 2016 22:03

Tgt Ion:178 Resp: 39595  
 Ion Ratio Lower Upper  
 178 100  
 176 18.8 15.8 23.6  
 179 16.1 13.0 19.4



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





#74

Fluoranthene

Concen: 5.06 ng

RT: 12.27 min Scan# 935

Delta R.T. -0.05 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

Instrument :

BNA\_F

ClientSampleId :

LOCATION-5D(9-11)

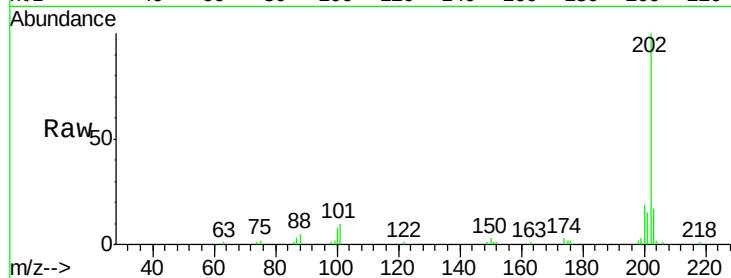
Tgt Ion: 202 Resp: 53670

Ion Ratio Lower Upper

202 100

101 10.3 0.0 33.1

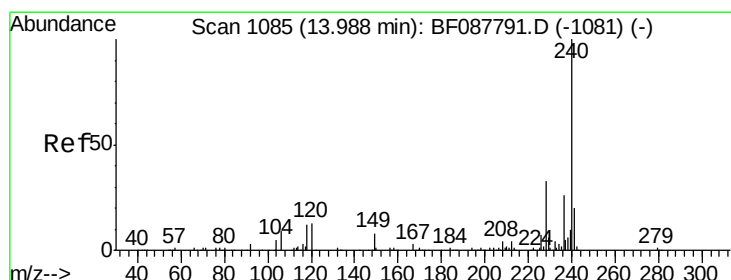
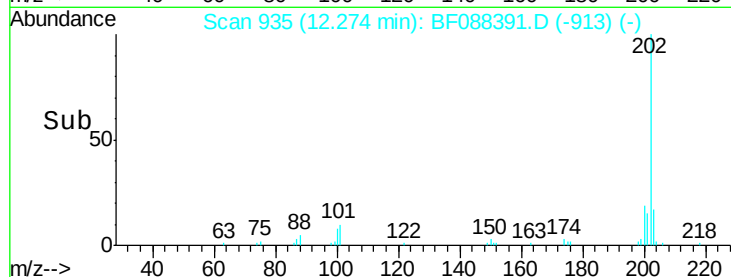
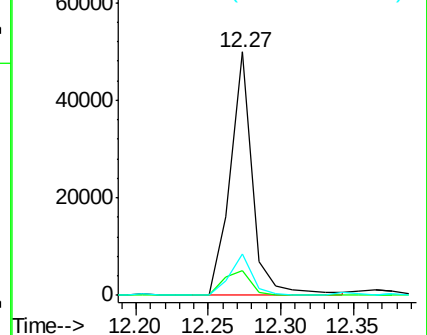
203 16.9 0.0 38.1



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: 13.69 min Scan# 1059

Delta R.T. -0.06 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

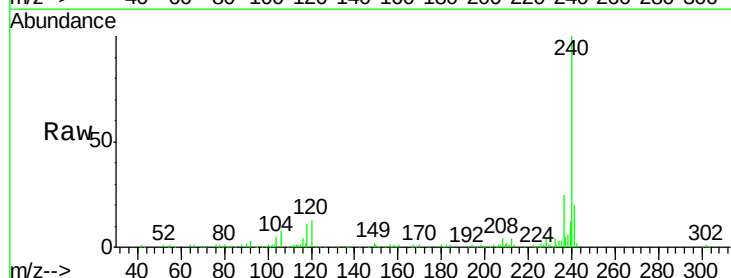
Tgt Ion: 240 Resp: 154872

Ion Ratio Lower Upper

240 100

120 12.6 6.8 10.2#

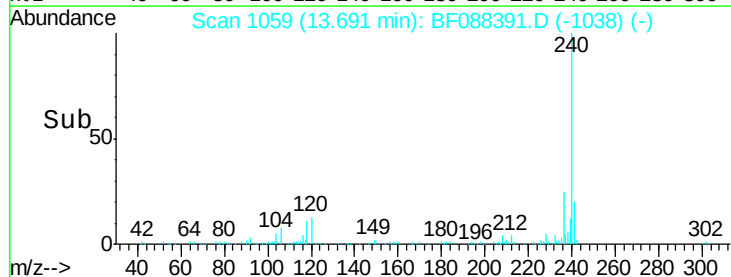
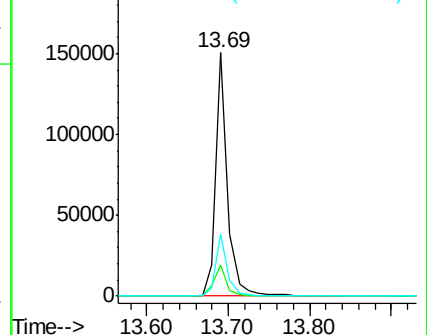
236 25.4 20.2 30.2

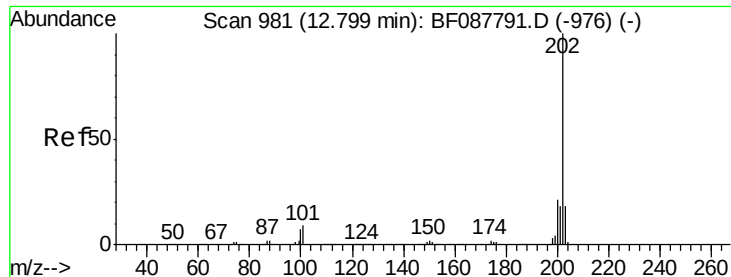


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 4.93 ng

RT: 12.49 min Scan# 954

Delta R.T. -0.06 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

Instrument :

BNA\_F

ClientSampleId :

LOCATION-5D(9-11)

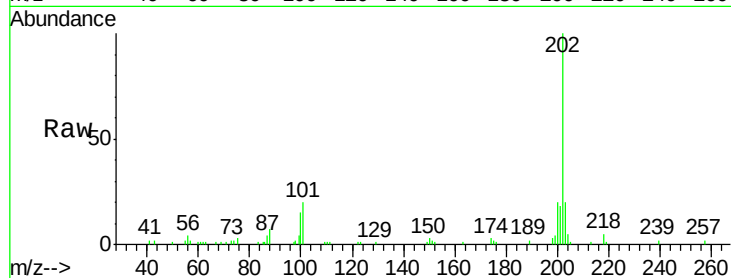
Tgt Ion:202 Resp: 56627

Ion Ratio Lower Upper

202 100

200 20.0 17.4 26.2

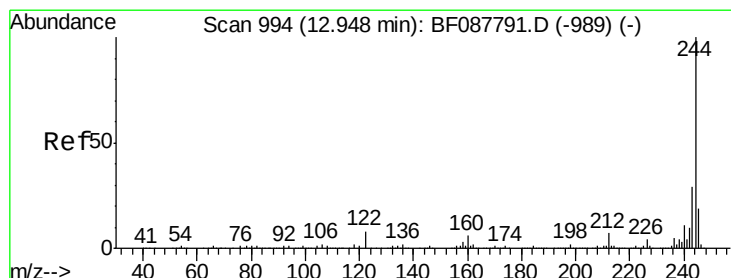
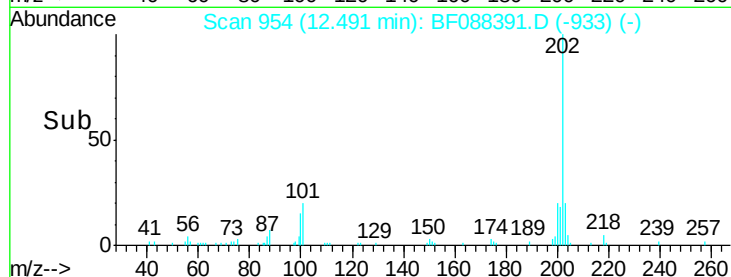
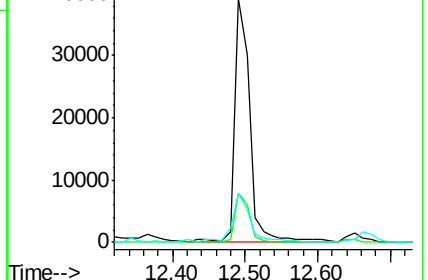
203 20.1 14.5 21.7



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: 66.69 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.05 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

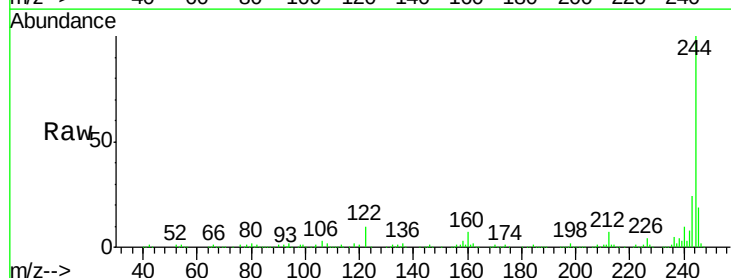
Tgt Ion:244 Resp: 453864

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

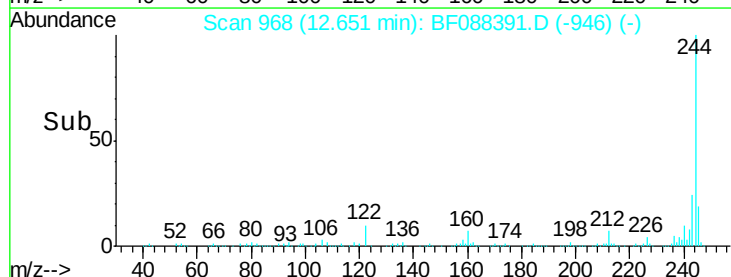
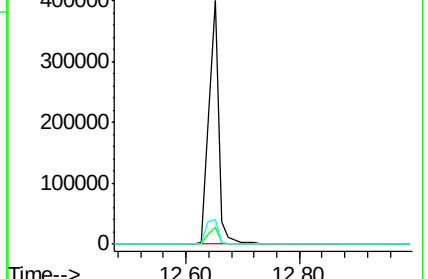
122 10.0 11.2 16.8#

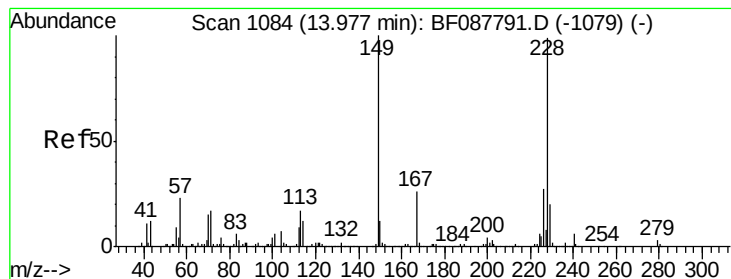


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 3.02 ng

RT: 13.68 min Scan# 1058

Delta R.T. -0.06 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

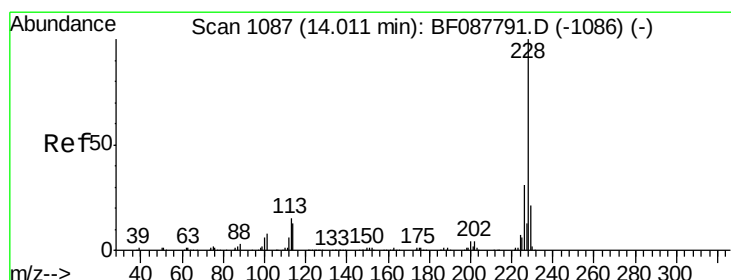
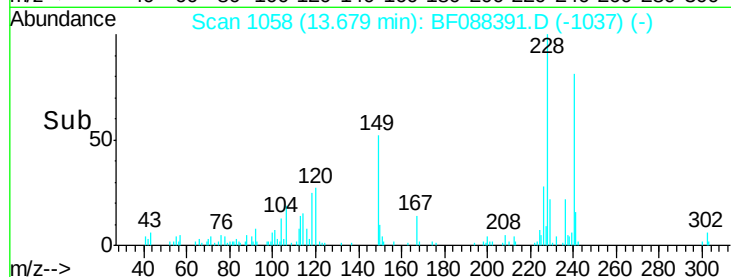
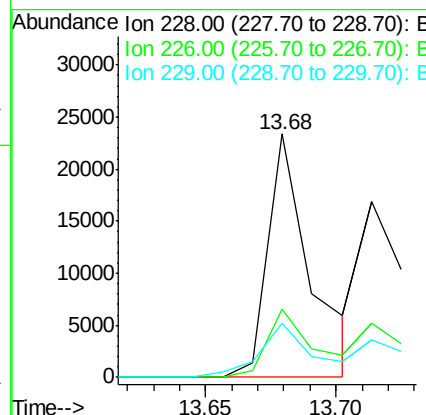
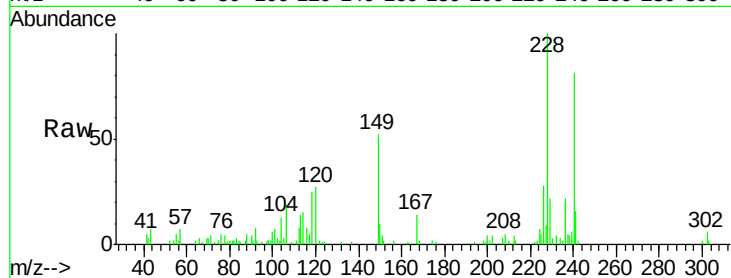
Instrument :

BNA\_F

ClientSampleId :

LOCATION-5D(9-11)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 26637 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 28.1  | 22.3  | 33.5  |
| 229      | 22.2  | 16.0  | 24.0  |



#82

Chrysene

Concen: 2.60 ng

RT: 13.71 min Scan# 1061

Delta R.T. -0.06 min

Lab File: BF088391.D

Acq: 25 Jun 2016 22:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 21585 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 30.6  | 25.4  | 38.2  |
| 229      | 21.7  | 16.3  | 24.5  |

