

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
 Data File : BF088448.D  
 Acq On : 27 Jun 2016 11:24  
 Operator : UM/SJ  
 Sample : H3731-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-55-062216

Quant Time: Jun 27 19:06:12 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 27 04:27:12 2016  
 Response via : Initial Calibration

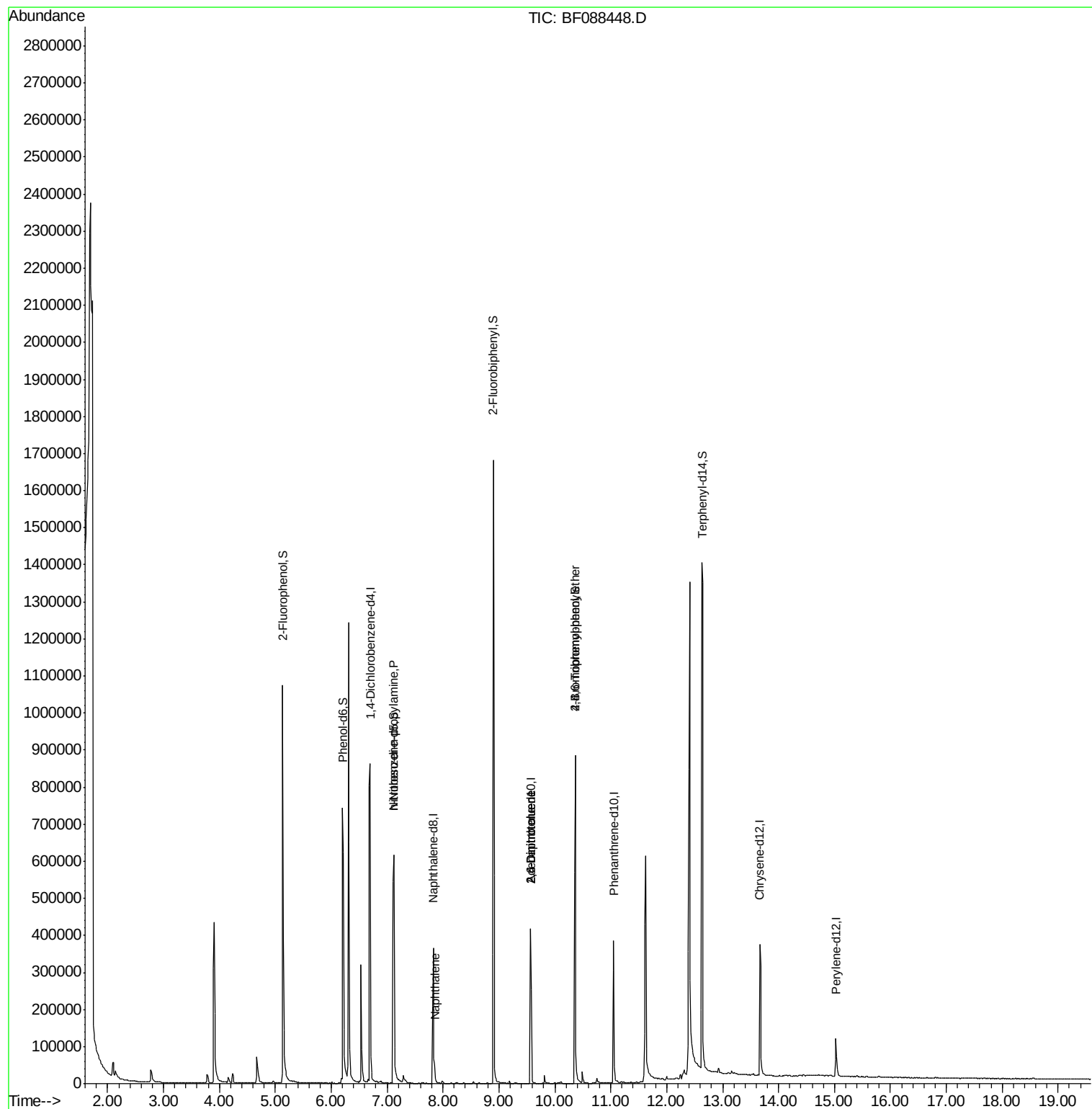
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.70  | 152  | 229312   | 20.00     | ng    | -0.15    |
| 21) Naphthalene-d8             | 7.83  | 136  | 242730   | 20.00     | ng    | -0.30    |
| 38) Acenaphthene-d10           | 9.56  | 164  | 102052   | 20.00     | ng    | -0.32    |
| 63) Phenanthrene-d10           | 11.05 | 188  | 221207   | 20.00     | ng    | -0.31    |
| 75) Chrysene-d12               | 13.67 | 240  | 172956   | 20.00     | ng    | -0.32    |
| 86) Perylene-d12               | 15.03 | 264  | 26026    | 20.00     | ng    | -0.37    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.13  | 112  | 431908   | 32.20     | ng    | -0.30    |
| 7) Phenol-d6                   | 6.20  | 99   | 484173   | 29.78     | ng    | -0.27    |
| 23) Nitrobenzene-d5            | 7.12  | 82   | 361613   | 86.99     | ng    | -0.30    |
| 41) 2,4,6-Tribromophenol       | 10.36 | 330  | 153712   | 142.65    | ng    | -0.31    |
| 44) 2-Fluorobiphenyl           | 8.90  | 172  | 663946   | 103.40    | ng    | -0.31    |
| 78) Terphenyl-d14              | 12.64 | 244  | 693758   | 91.28     | ng    | -0.31    |
| Target Compounds               |       |      |          |           |       |          |
| 10) Phenol                     | 6.31  | 94   | 832      | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.12  | 70   | 44988    | 4.33      | ng    | # 66     |
| 31) Naphthalene                | 7.85  | 128  | 31381    | 2.61      | ng    | # 99     |
| 45) 1,1'-Biphenyl              | 9.00  | 154  | 257      | Below Cal | #     | 43       |
| 50) 2,6-Dinitrotoluene         | 9.56  | 165  | 12810    | 7.57      | ng    | # 37     |
| 56) 2,4-Dinitrotoluene         | 9.56  | 165  | 12811    | 5.89      | ng    | # 36     |
| 57) Fluorene                   | 10.12 | 166  | 569      | Below Cal | #     | 92       |
| 66) 4-Bromophenyl-phenylether  | 10.36 | 248  | 6987     | 2.94      | ng    | # 1      |

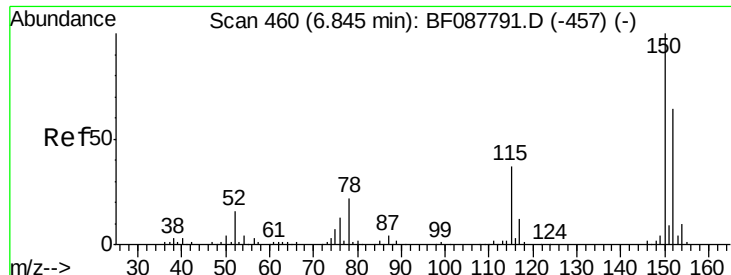
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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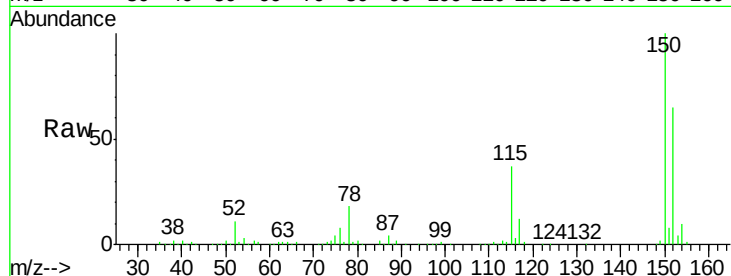


#1

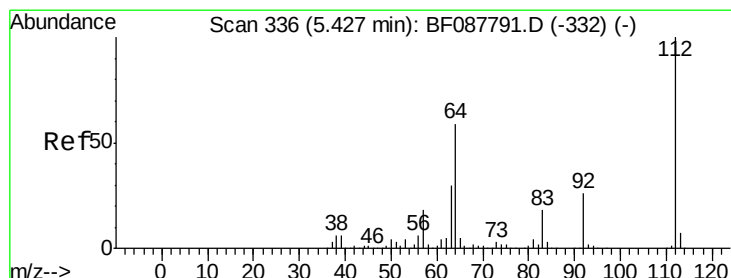
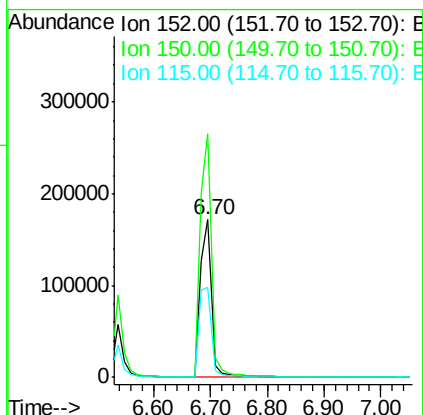
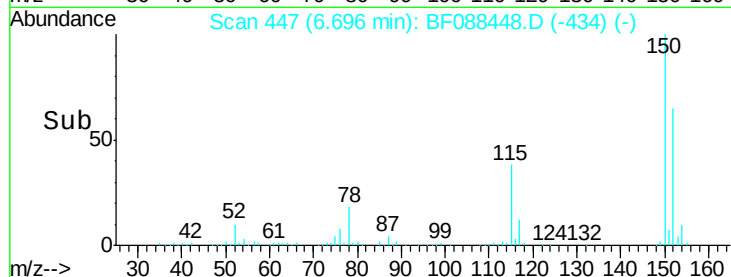
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.70 min Scan# 447  
Delta R.T. -0.15 min  
Lab File: BF088448.D  
Acq: 27 Jun 2016 11:24

Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-55-062216

Tot Ion:152 Resp: 229312  
Ion Ratio Lower Upper  
152 100  
150 154.8 123.8 185.6  
115 57.6 39.6 59.4



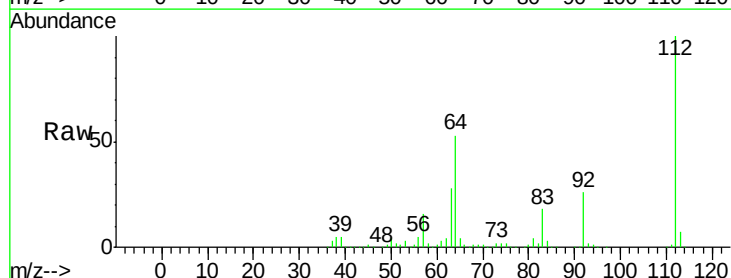
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



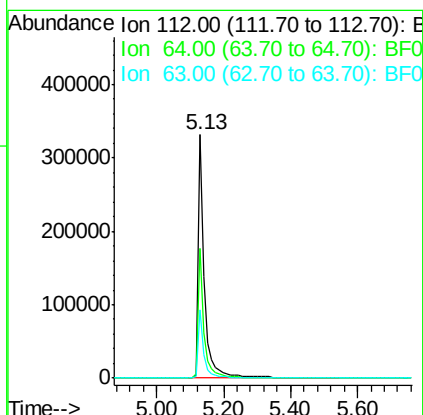
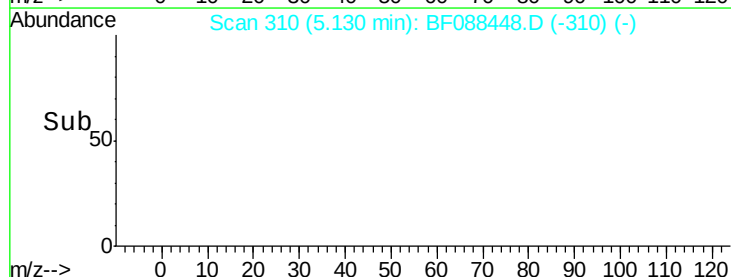
#5

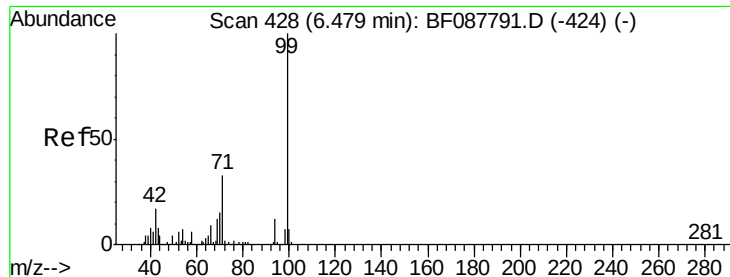
2-Fluorophenol  
Concen: 32.20 ng  
RT: 5.13 min Scan# 310  
Delta R.T. -0.30 min  
Lab File: BF088448.D  
Acq: 27 Jun 2016 11:24

Tgt Ion:112 Resp: 431908  
Ion Ratio Lower Upper  
112 100  
64 53.4 42.2 63.2  
63 28.0 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: 29.78 ng

RT: 6.20 min Scan# 404

Delta R.T. -0.27 min

Lab File: BF088448.D

Acq: 27 Jun 2016 11:24

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-55-062216

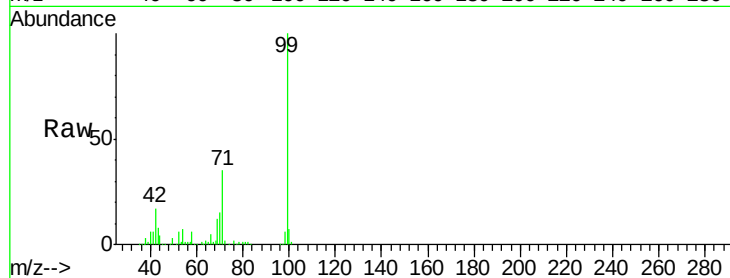
Tot Ion: 99 Resp: 484173

Ion Ratio Lower Upper

99 100

42 16.7 12.2 18.2

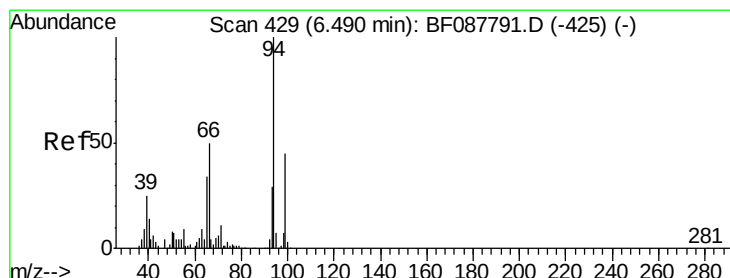
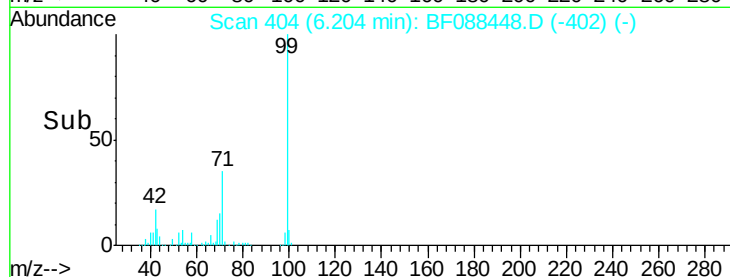
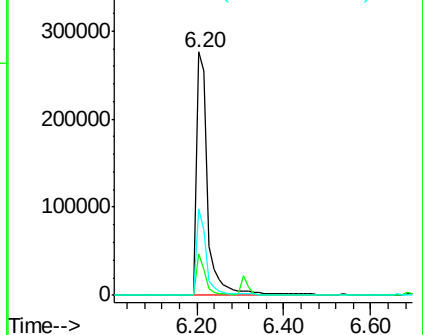
71 35.4 23.4 35.0#



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: Below Cal

RT: 6.31 min Scan# 413

Delta R.T. -0.18 min

Lab File: BF088448.D

Acq: 27 Jun 2016 11:24

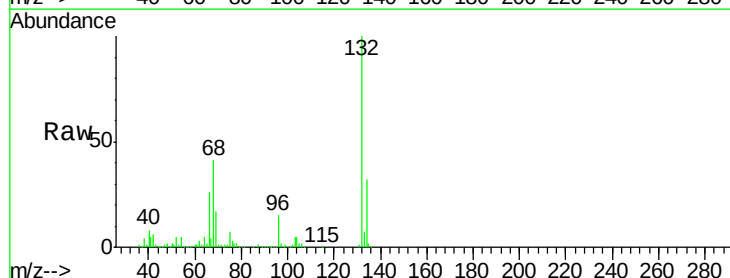
Tgt Ion: 94 Resp: 832

Ion Ratio Lower Upper

94 100

65 949.3 5.9 45.9#

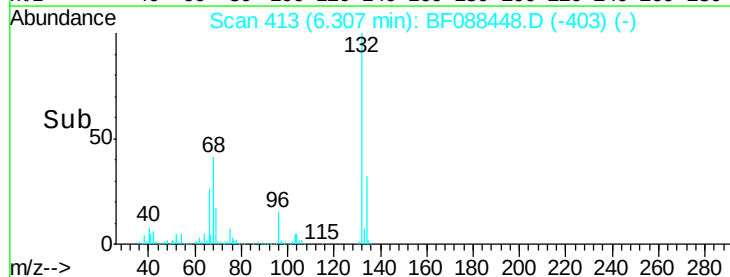
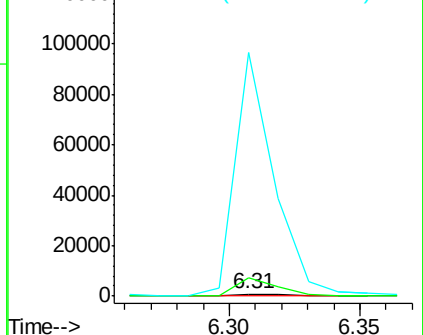
66 12357.5 14.0 54.0#

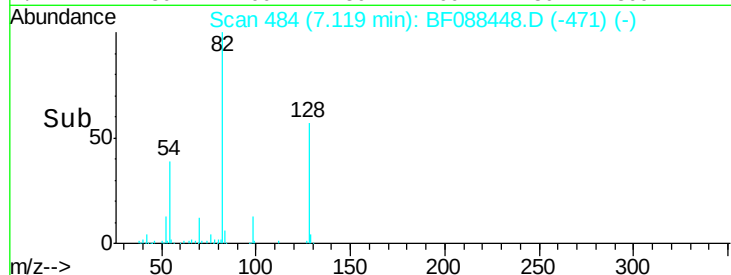
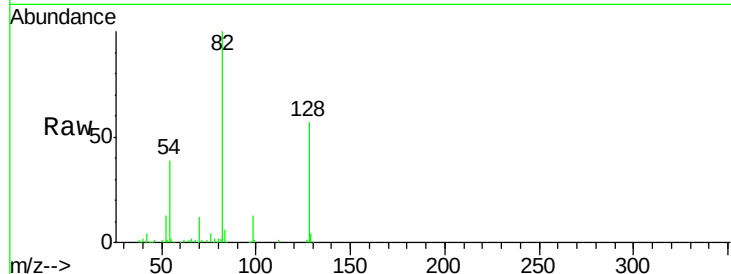
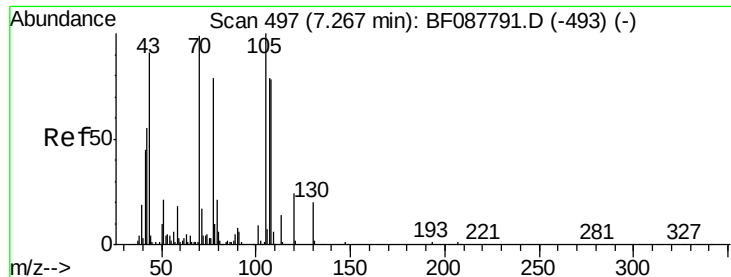


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

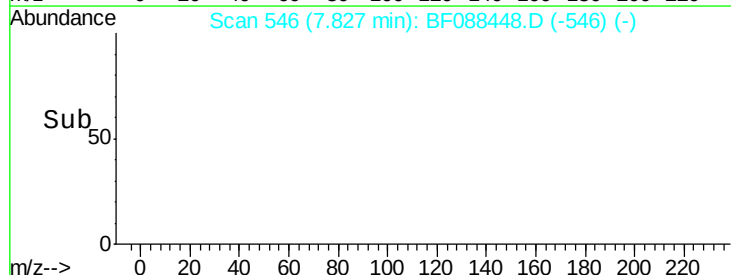
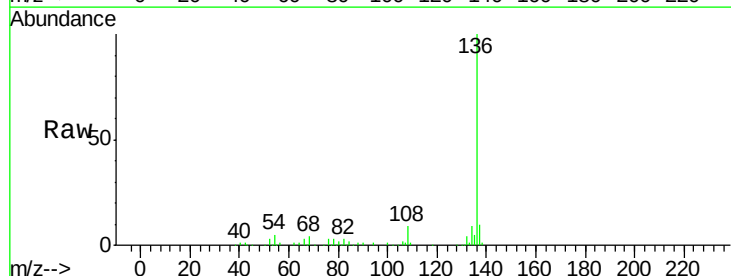
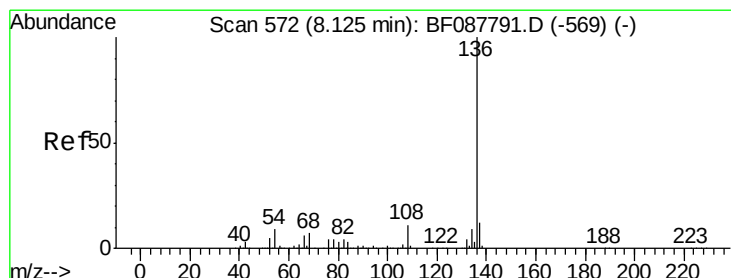
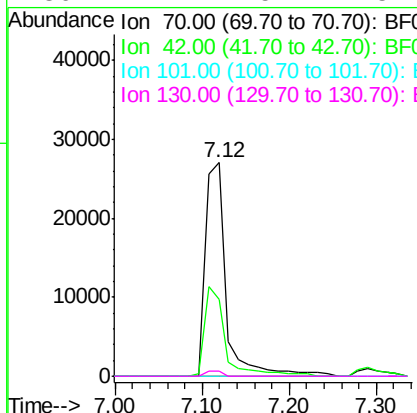




#19  
n-Nitroso-di-n-propylamine  
Concen: 4.33 ng  
RT: 7.12 min Scan# 484  
Delta R.T. -0.15 min  
Lab File: BF088448.D  
Acq: 27 Jun 2016 11:24

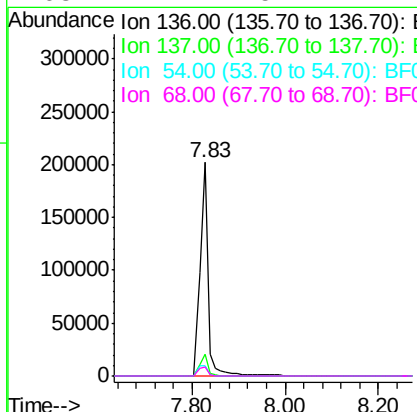
Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-55-062216

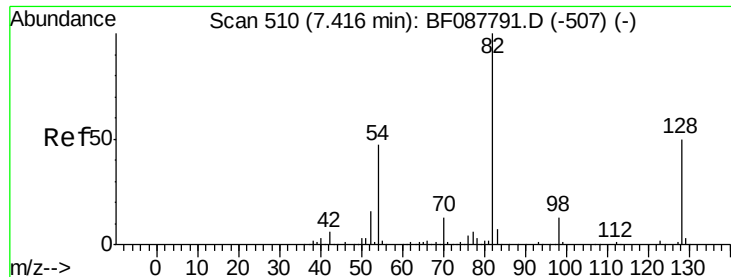
Tot Ion: 70 Resp: 44988  
Ion Ratio Lower Upper  
70 100  
42 35.9 49.6 74.4#  
101 0.0 7.1 10.7#  
130 2.7 15.4 23.2#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.83 min Scan# 546  
Delta R.T. -0.30 min  
Lab File: BF088448.D  
Acq: 27 Jun 2016 11:24

Tgt Ion: 136 Resp: 242730  
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#

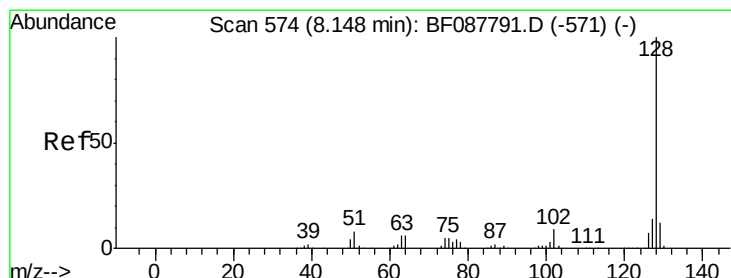
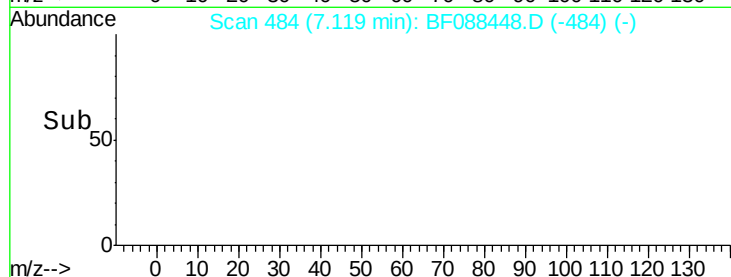
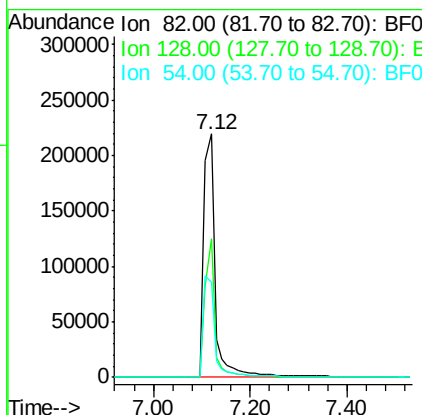
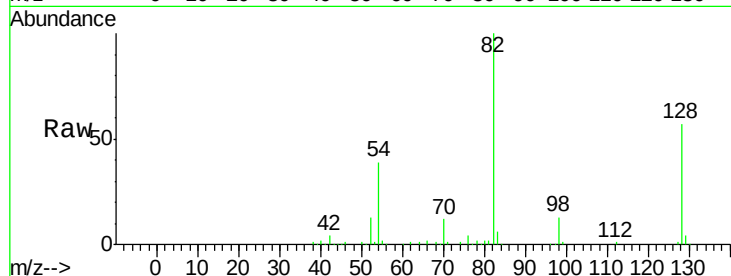




#23  
 Nitrobenzene-d5  
 Concen: 86.99 ng  
 RT: 7.12 min Scan# 484  
 Delta R.T. -0.30 min  
 Lab File: BF088448.D  
 Acq: 27 Jun 2016 11:24

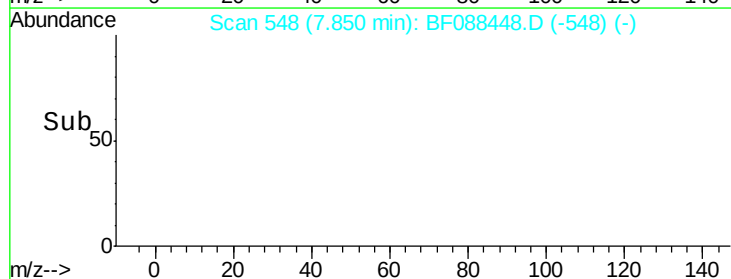
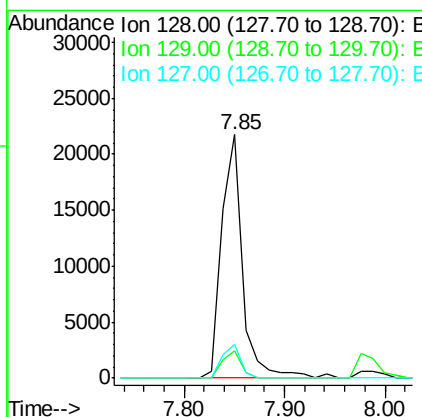
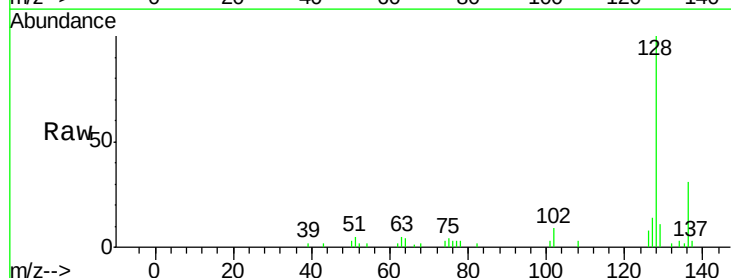
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-55-062216

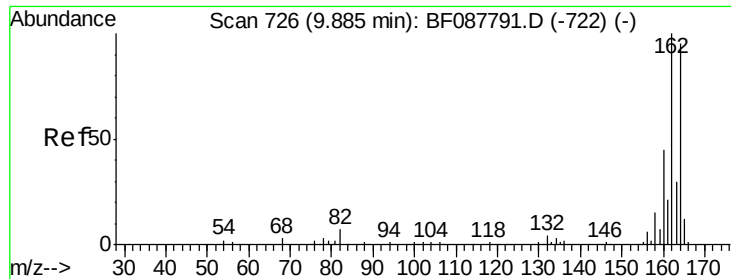
Tot Ion: 82 Resp: 361613  
 Ion Ratio Lower Upper  
 82 100  
 128 57.2 35.9 53.9#  
 54 38.8 40.9 61.3#



#31  
 Naphthalene  
 Concen: 2.61 ng  
 RT: 7.85 min Scan# 548  
 Delta R.T. -0.30 min  
 Lab File: BF088448.D  
 Acq: 27 Jun 2016 11:24

Tgt Ion: 128 Resp: 31381  
 Ion Ratio Lower Upper  
 128 100  
 129 11.1 9.4 14.2  
 127 13.9 10.9 16.3





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.56 min Scan# 698

Delta R.T. -0.32 min

Lab File: BF088448.D

Acq: 27 Jun 2016 11:24

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-55-062216

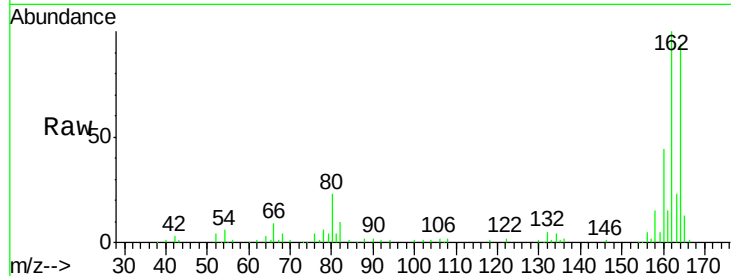
Tot Ion:164 Resp: 102052

Ion Ratio Lower Upper

164 100

162 106.7 85.4 128.2

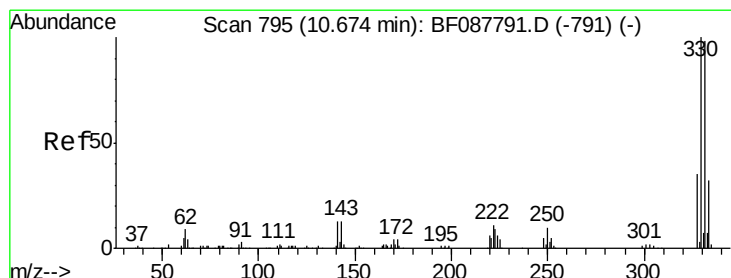
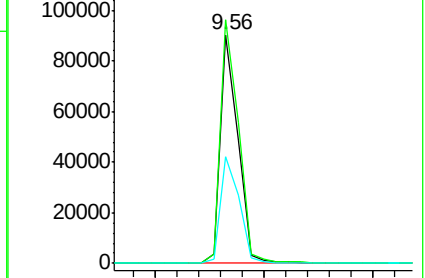
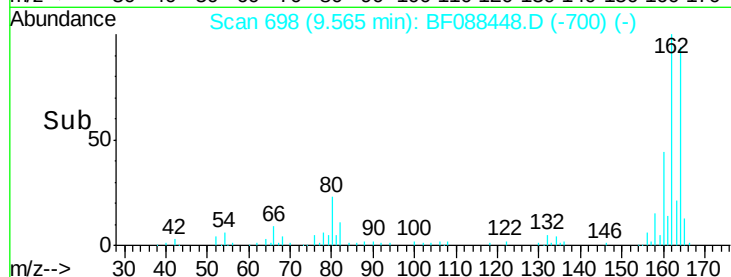
160 47.0 39.5 59.3



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: 142.65 ng

RT: 10.36 min Scan# 768

Delta R.T. -0.31 min

Lab File: BF088448.D

Acq: 27 Jun 2016 11:24

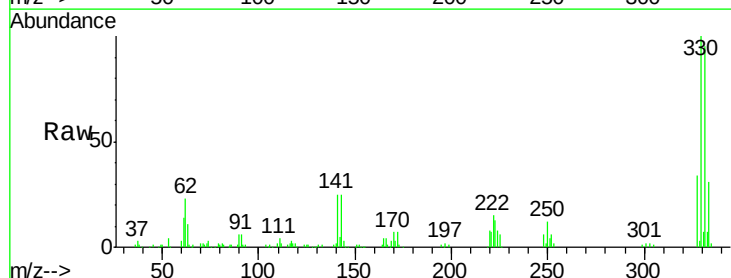
Tgt Ion:330 Resp: 153712

Ion Ratio Lower Upper

330 100

332 96.1 0.0 0.0#

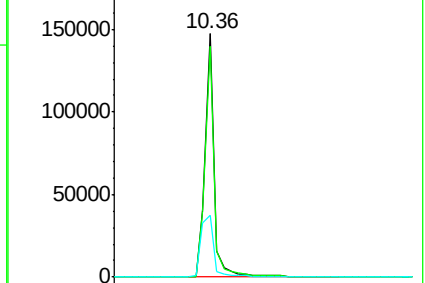
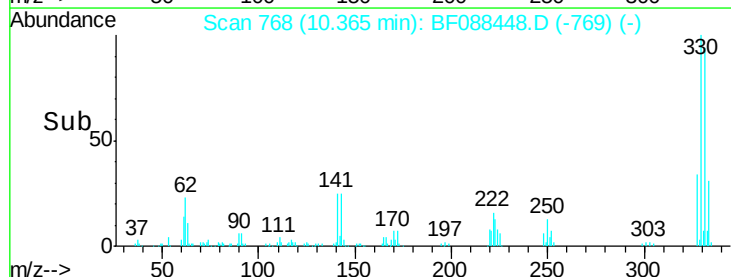
141 35.9 0.0 0.0#

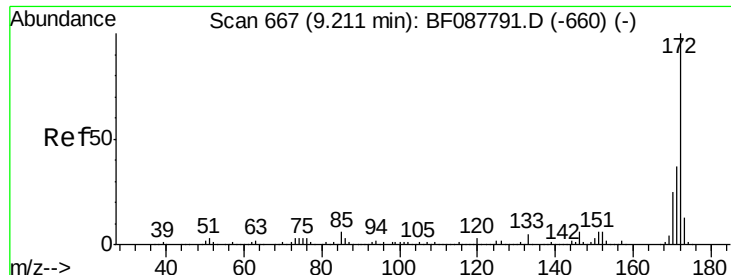


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

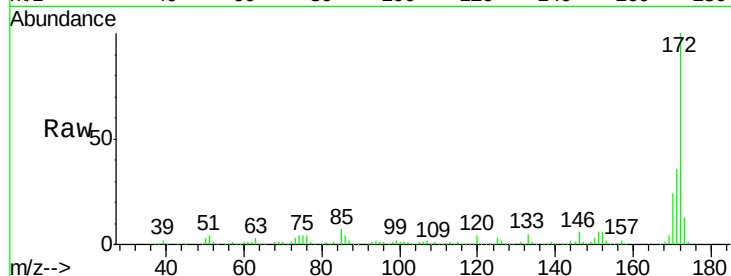




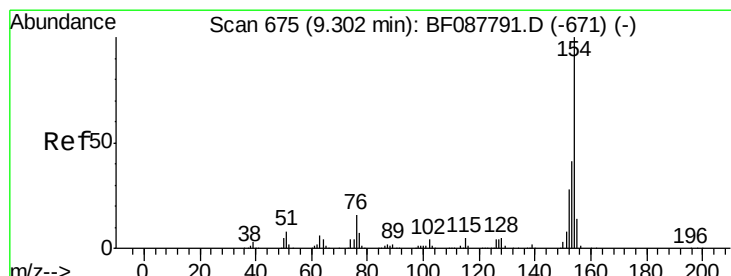
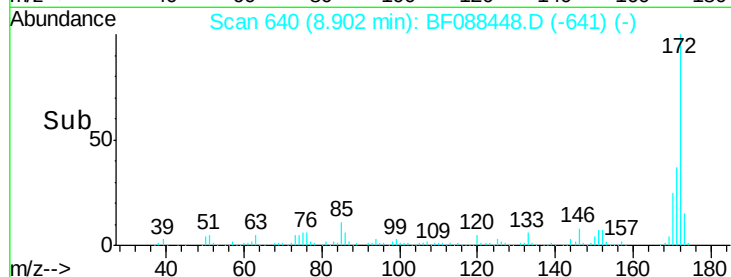
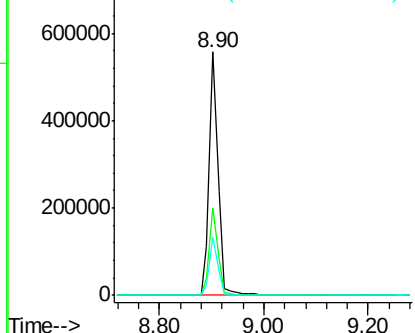
#44  
2-Fluorobiphenyl  
Concen: 103.40 ng  
RT: 8.90 min Scan# 640  
Delta R.T. -0.31 min  
Lab File: BF088448.D  
Acq: 27 Jun 2016 11:24

Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-55-062216

Tot Ion:172 Resp: 663946  
Ion Ratio Lower Upper  
172 100  
171 35.8 28.6 43.0  
170 23.8 19.2 28.8

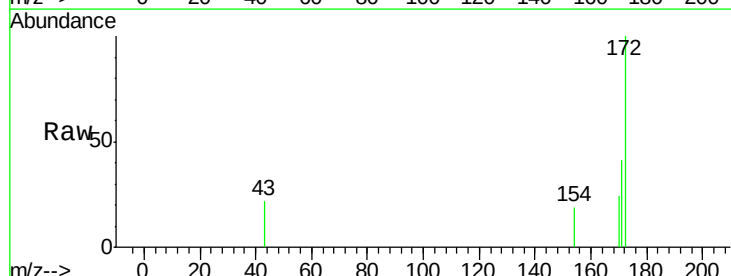


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

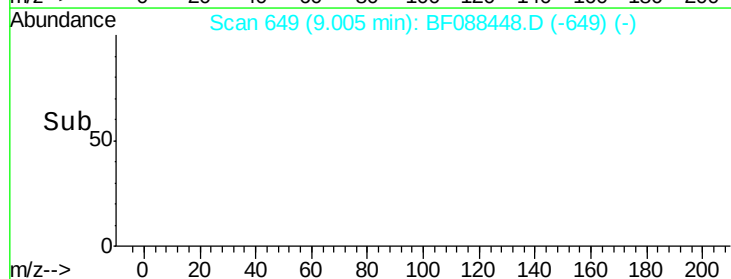
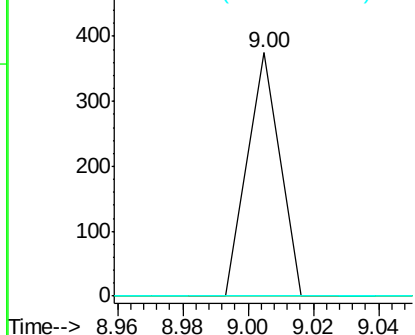


#45  
1,1'-Biphenyl  
Concen: Below Cal  
RT: 9.00 min Scan# 649  
Delta R.T. -0.30 min  
Lab File: BF088448.D  
Acq: 27 Jun 2016 11:24

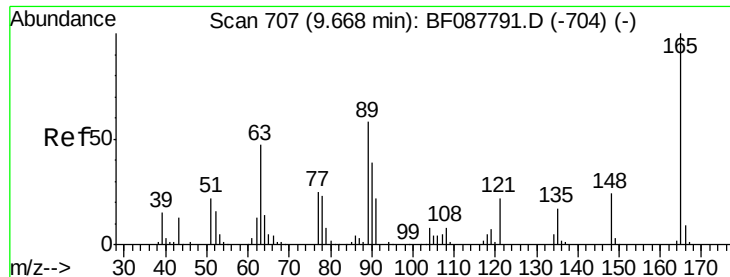
Tgt Ion:154 Resp: 257  
Ion Ratio Lower Upper  
154 100  
153 0.0 20.6 60.6#  
76 0.0 0.0 35.1



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



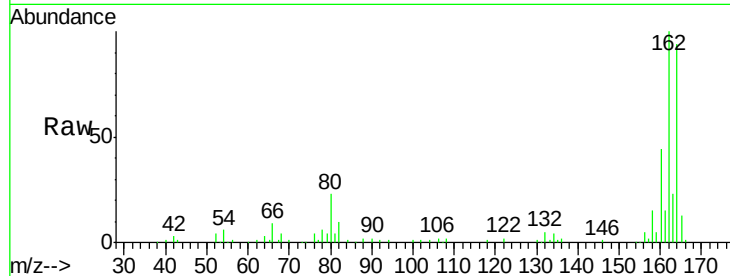




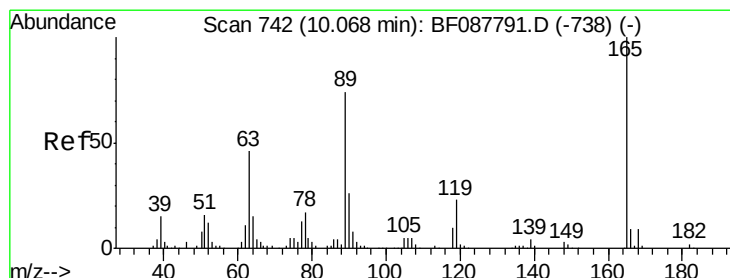
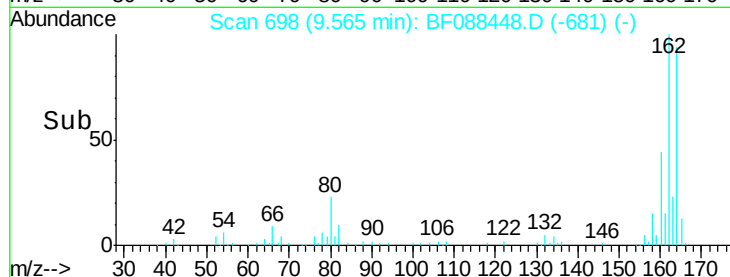
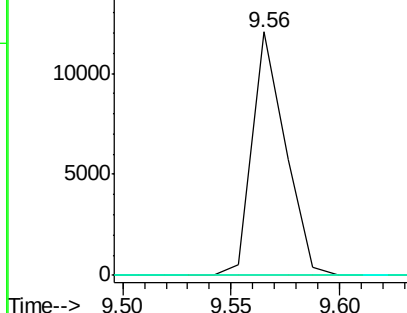
#50  
2,6-Dinitrotoluene  
Concen: 7.57 ng  
RT: 9.56 min Scan# 698  
Delta R.T. -0.10 min  
Lab File: BF088448.D  
Acq: 27 Jun 2016 11:24

Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-55-062216

Tot Ion:165 Resp: 12810  
Ion Ratio Lower Upper  
165 100  
63 0.0 28.1 42.1#  
89 0.0 32.2 48.2#

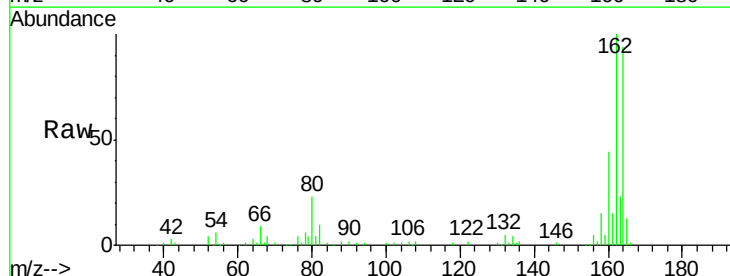


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

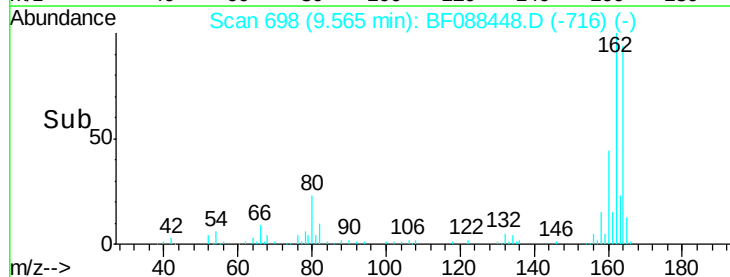
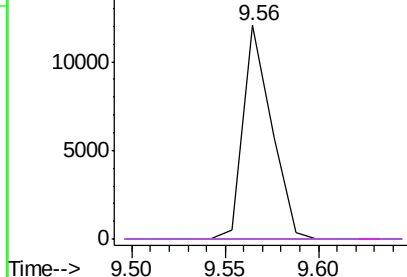


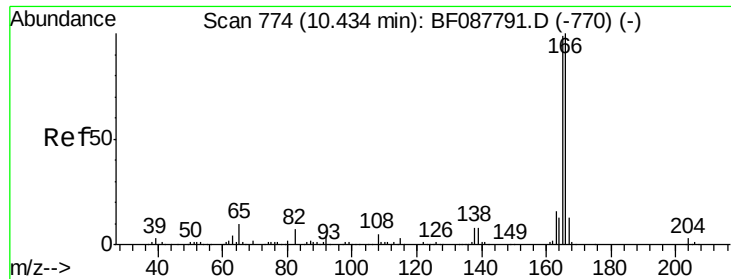
#56  
2,4-Dinitrotoluene  
Concen: 5.89 ng  
RT: 9.56 min Scan# 698  
Delta R.T. -0.50 min  
Lab File: BF088448.D  
Acq: 27 Jun 2016 11:24

Tgt Ion:165 Resp: 12811  
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: 10.12 min Scan# 747

Delta R.T. -0.31 min

Lab File: BF088448.D

Acq: 27 Jun 2016 11:24

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-55-062216

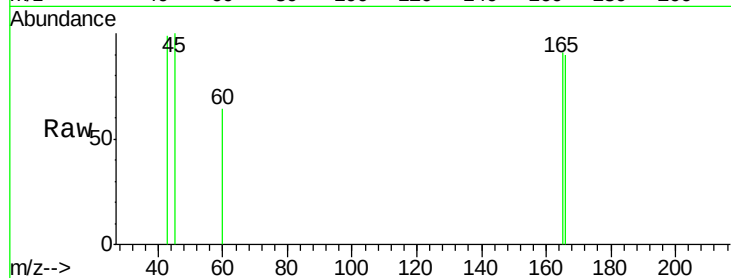
Tot Ion:166 Resp: 569

Ion Ratio Lower Upper

166 100

165 101.0 77.8 116.8

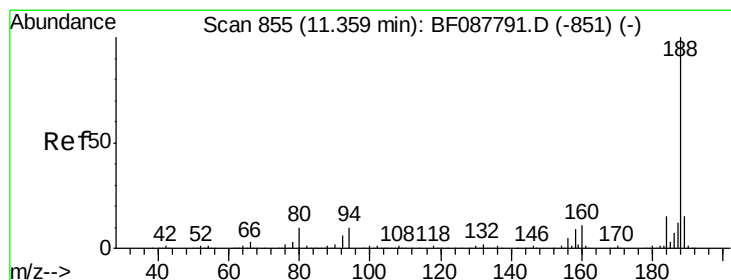
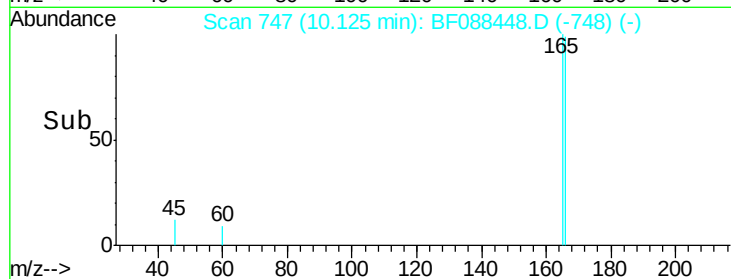
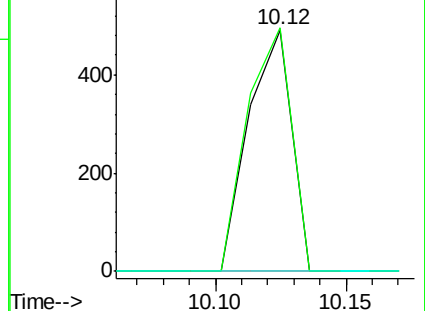
167 0.0 11.2 16.8#



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: 11.05 min Scan# 828

Delta R.T. -0.31 min

Lab File: BF088448.D

Acq: 27 Jun 2016 11:24

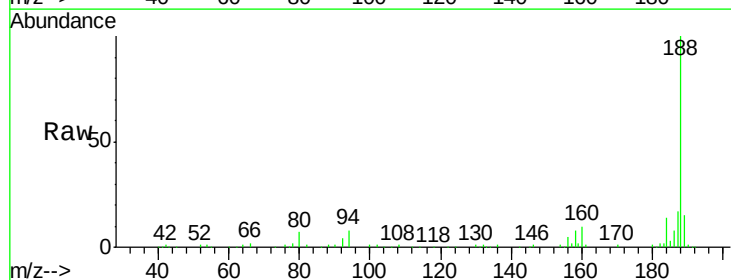
Tgt Ion:188 Resp: 221207

Ion Ratio Lower Upper

188 100

94 7.5 9.0 13.6#

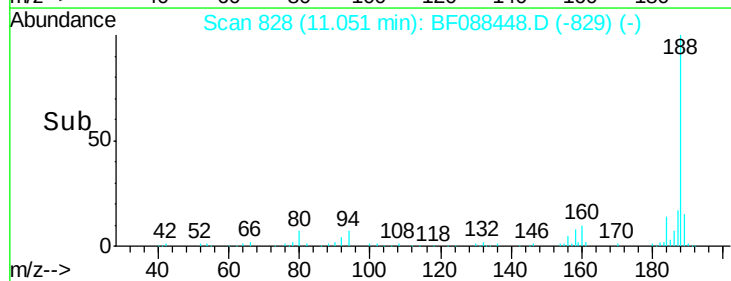
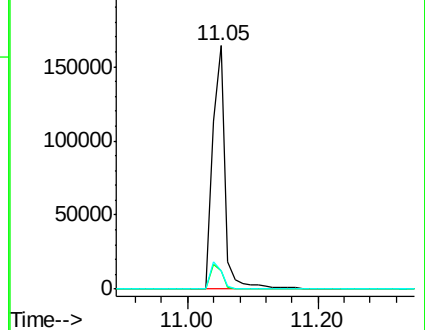
80 7.3 10.0 15.0#

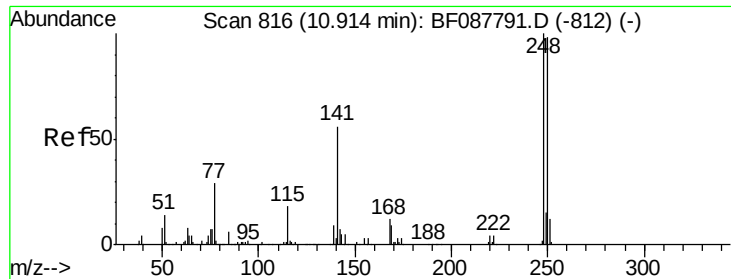


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

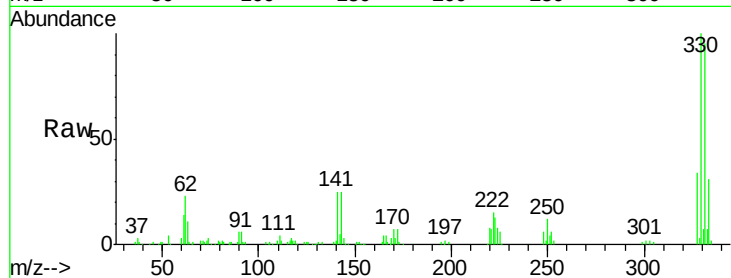




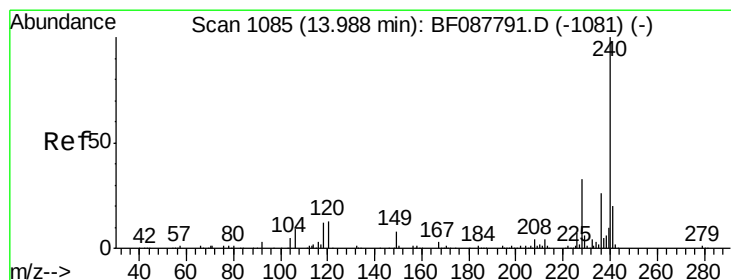
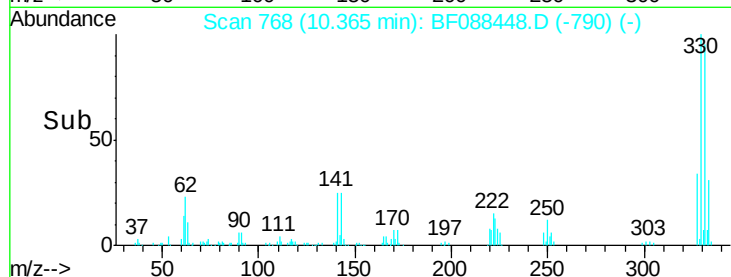
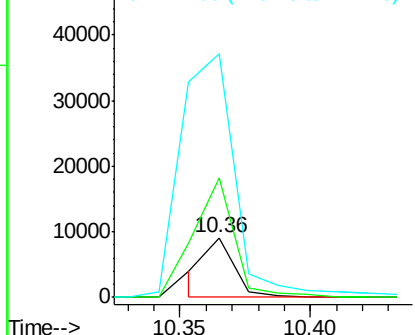
#66  
4-Bromophenyl-phenylether  
Concen: 2.94 ng  
RT: 10.36 min Scan# 768  
Delta R.T. -0.55 min  
Lab File: BF088448.D  
Acq: 27 Jun 2016 11:24

Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-55-062216

Tot Ion:248 Resp: 6987  
Ion Ratio Lower Upper  
248 100  
250 201.2 77.1 115.7#  
141 408.8 50.6 76.0#

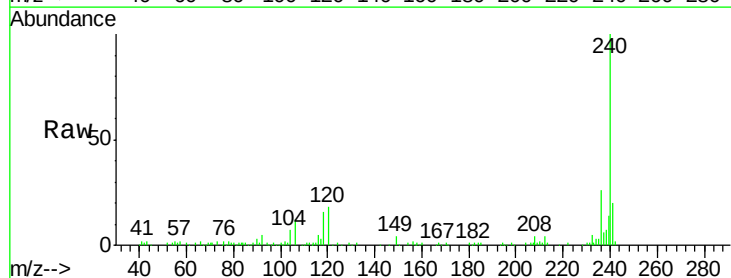


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

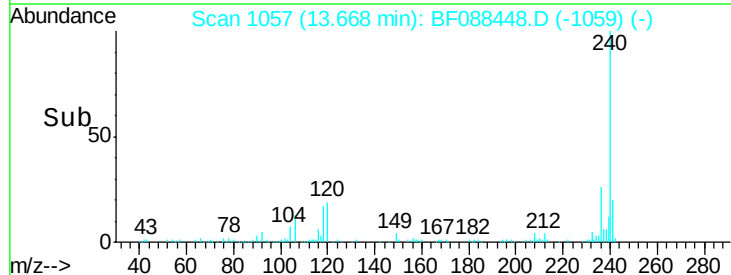
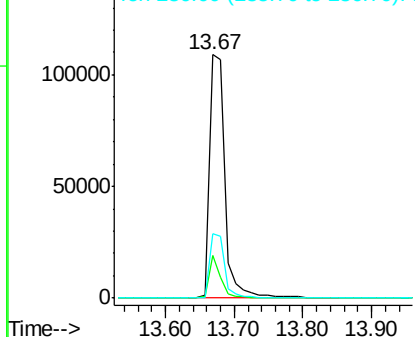


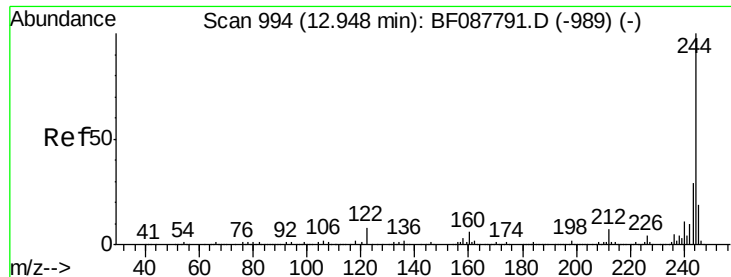
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.67 min Scan# 1057  
Delta R.T. -0.32 min  
Lab File: BF088448.D  
Acq: 27 Jun 2016 11:24

Tgt Ion:240 Resp: 172956  
Ion Ratio Lower Upper  
240 100  
120 17.5 6.8 10.2#  
236 26.3 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

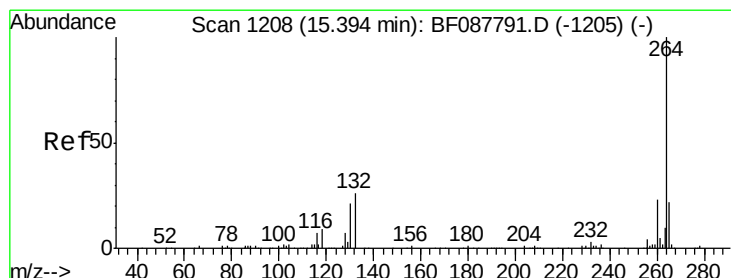
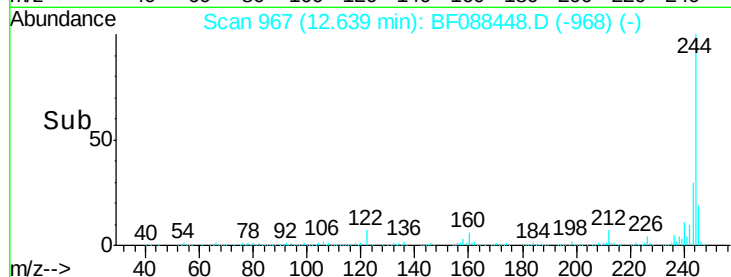
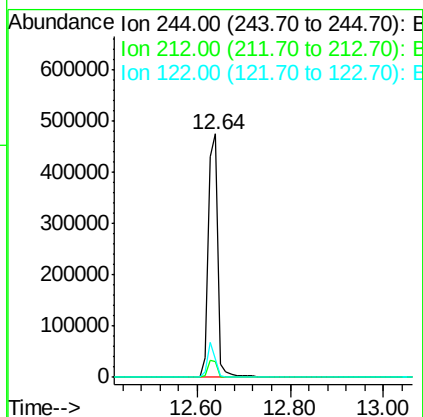
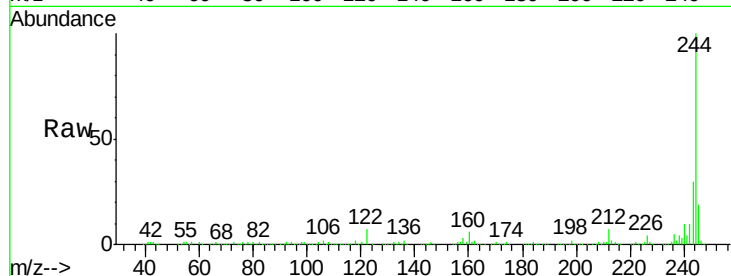




#78  
 Terphenyl-d14  
 Concen: 91.28 ng  
 RT: 12.64 min Scan# 967  
 Delta R.T. -0.31 min  
 Lab File: BF088448.D  
 Acq: 27 Jun 2016 11:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-55-062216

Tot Ion:244 Resp: 693758  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 6.0 9.0  
 122 7.5 11.2 16.8#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.03 min Scan# 1176  
 Delta R.T. -0.37 min  
 Lab File: BF088448.D  
 Acq: 27 Jun 2016 11:24

Tgt Ion:264 Resp: 26026  
 Ion Ratio Lower Upper  
 264 100  
 260 47.4 19.2 28.8#  
 265 20.9 16.9 25.3

