

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071516\  
 Data File : BF089028.D  
 Acq On : 15 Jul 2016 21:00  
 Operator : UM/SJ  
 Sample : H3951-07 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LSS-SB-SB03(0-2in)

Quant Time: Jul 15 23:00:35 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 11 18:13:32 2016  
 Response via : Initial Calibration

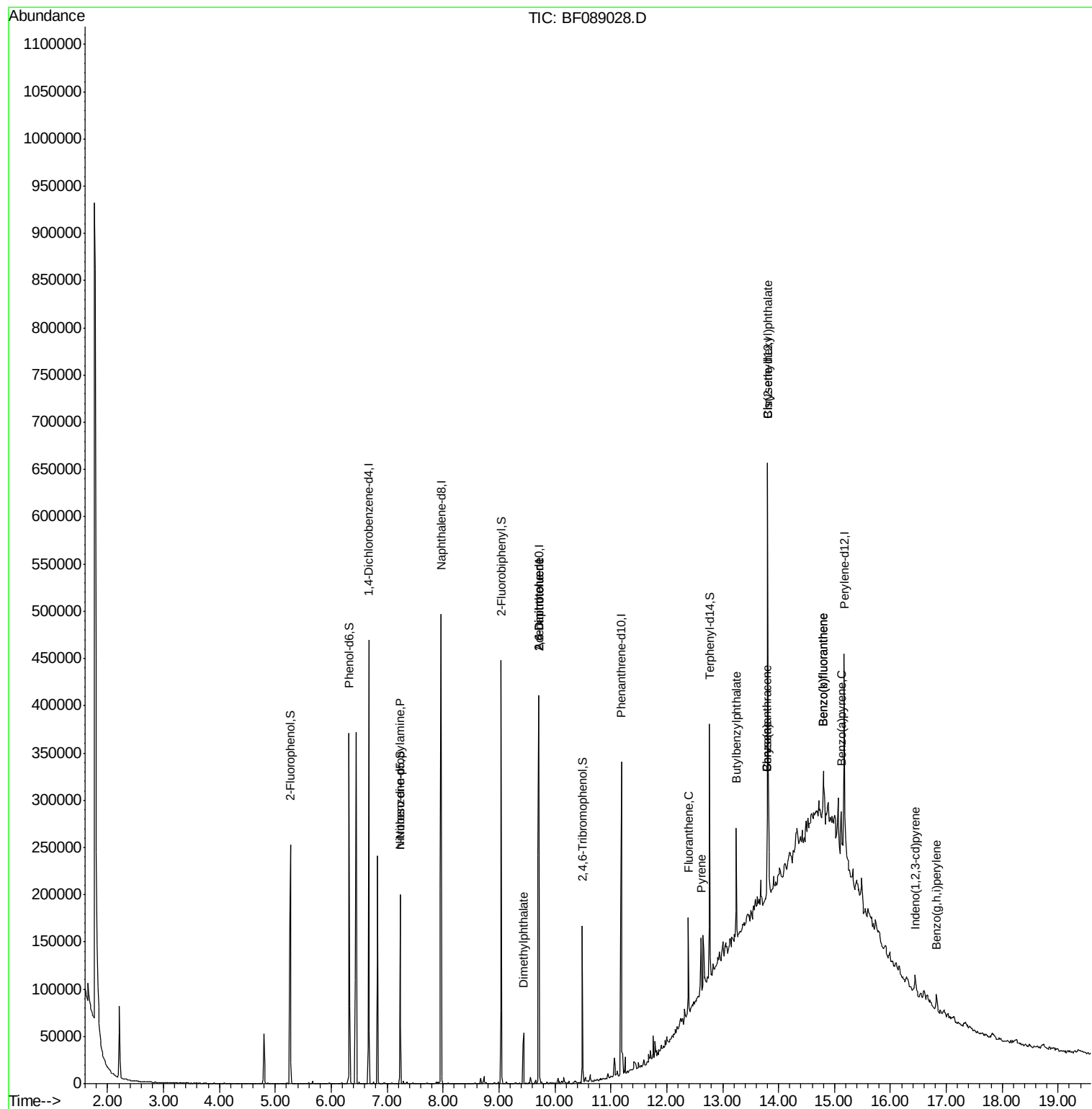
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.67  | 152  | 61634    | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8             | 7.96  | 136  | 244306   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10           | 9.71  | 164  | 92790    | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10           | 11.19 | 188  | 142708   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12               | 13.81 | 240  | 107907   | 20.00 | ng    | -0.05    |
| 86) Perylene-d12               | 15.18 | 264  | 83261    | 20.00 | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.27  | 112  | 88310    | 21.47 | ng    | -0.02    |
| 7) Phenol-d6                   | 6.32  | 99   | 114438   | 21.54 | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 7.23  | 82   | 64822    | 13.90 | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 10.49 | 330  | 14461    | 16.78 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl           | 9.04  | 172  | 127006   | 21.62 | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.77 | 244  | 69464    | 14.34 | ng    | -0.03    |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 7.23  | 70   | 9164     | 2.57  | ng    | # 76     |
| 49) Dimethylphthalate          | 9.44  | 163  | 30107    | 4.55  | ng    | 98       |
| 50) 2,6-Dinitrotoluene         | 9.71  | 165  | 11822    | 8.07  | ng    | # 37     |
| 56) 2,4-Dinitrotoluene         | 9.71  | 165  | 11822    | 6.17  | ng    | # 36     |
| 74) Fluoranthene               | 12.39 | 202  | 33071    | 4.18  | ng    | 96       |
| 77) Pyrene                     | 12.62 | 202  | 32492    | 3.55  | ng    | 98       |
| 79) Butylbenzylphthalate       | 13.25 | 149  | 25426    | 6.23  | ng    | # 85     |
| 80) Benzo(a)anthracene         | 13.79 | 228  | 20285    | 2.92  | ng    | 92       |
| 82) Chrysene                   | 13.79 | 228  | 20285    | 2.95  | ng    | 96       |
| 83) Bis(2-ethylhexyl)phthalate | 13.81 | 149  | 30377    | 6.52  | ng    | # 98     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.45 | 276  | 10869    | 2.06  | ng    | # 100    |
| 87) Benzo(b)fluoranthene       | 14.80 | 252  | 30439    | 5.83  | ng    | # 83     |
| 88) Benzo(k)fluoranthene       | 14.80 | 252  | 30439    | 6.69  | ng    | # 87     |
| 89) Benzo(a)pyrene             | 15.12 | 252  | 13780    | 3.12  | ng    | # 83     |
| 91) Benzo(g,h,i)perylene       | 16.82 | 276  | 12120    | 3.17  | ng    | 98       |

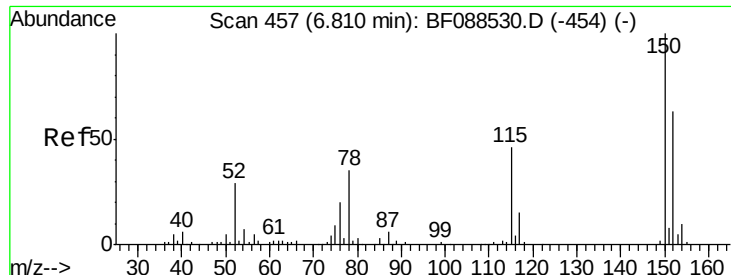
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
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QLast Update : Mon Jul 11 18:13:32 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.67 min Scan# 445

Delta R.T. -0.03 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

Instrument :

BNA\_F

ClientSampleId :

LSS-SB-SB03(0-2in)

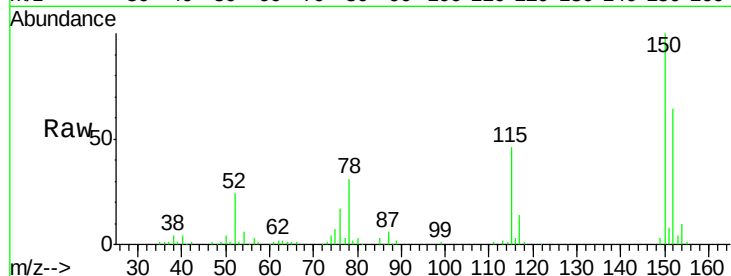
Tgt Ion:152 Resp: 61634

Ion Ratio Lower Upper

152 100

150 156.3 123.8 185.6

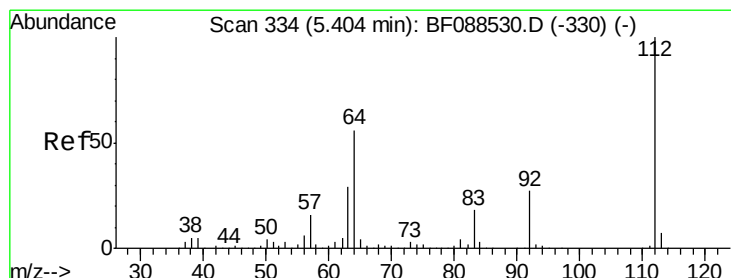
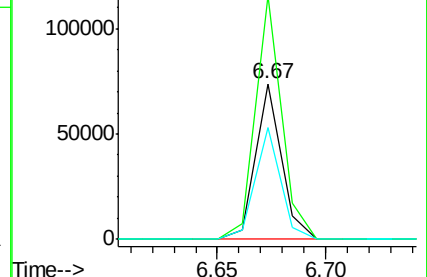
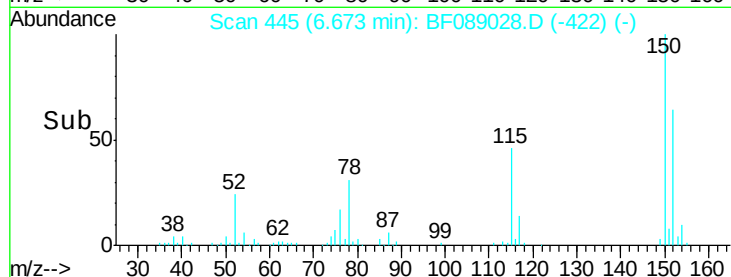
115 72.0 39.6 59.4#



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: 21.47 ng

RT: 5.27 min Scan# 322

Delta R.T. -0.02 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

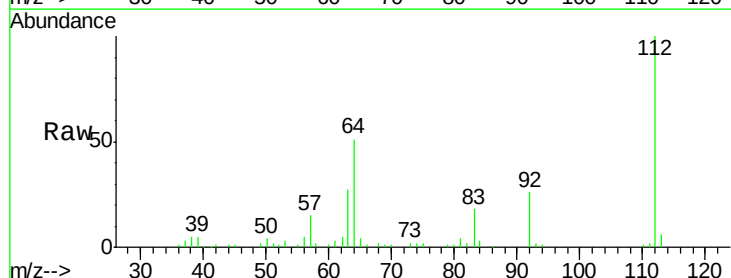
Tgt Ion:112 Resp: 88310

Ion Ratio Lower Upper

112 100

64 51.1 42.2 63.2

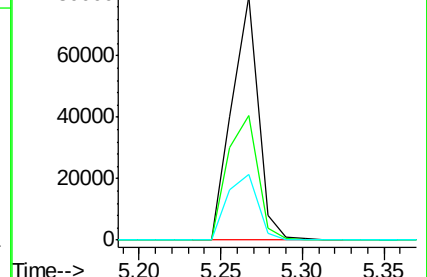
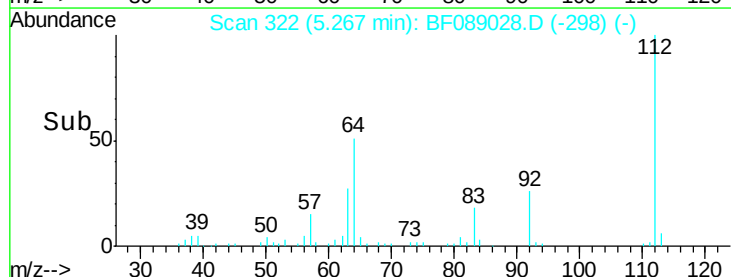
63 27.0 21.8 32.8

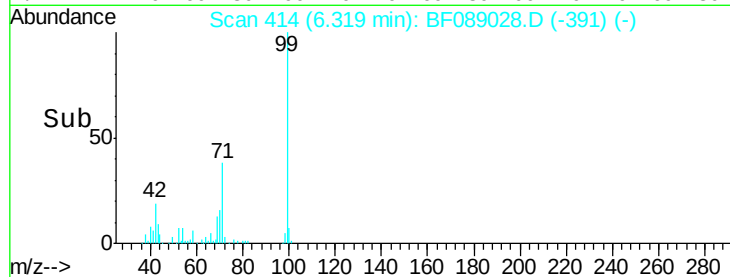
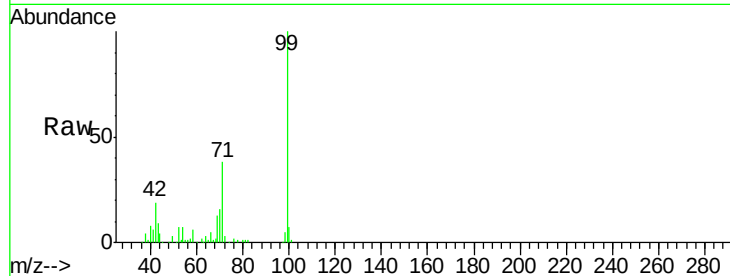
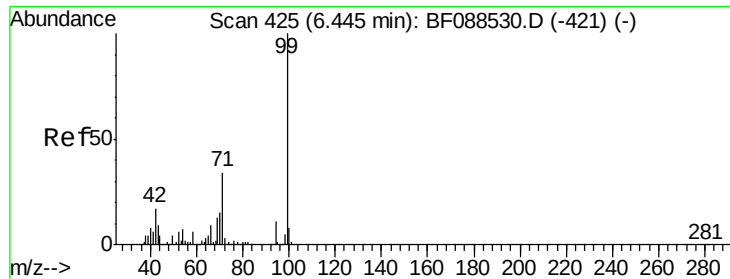


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 21.54 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

Instrument :

BNA\_F

ClientSampleId :

LSS-SB-SB03(0-2in)

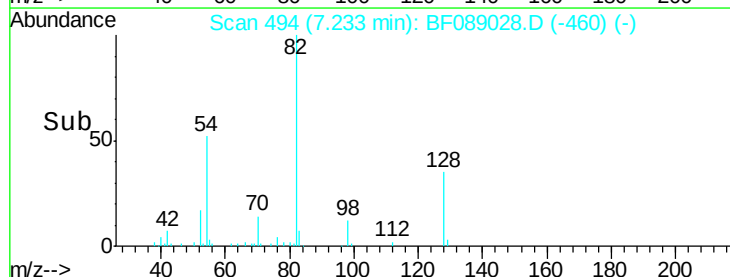
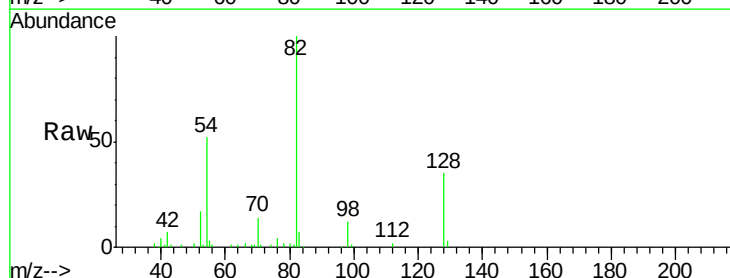
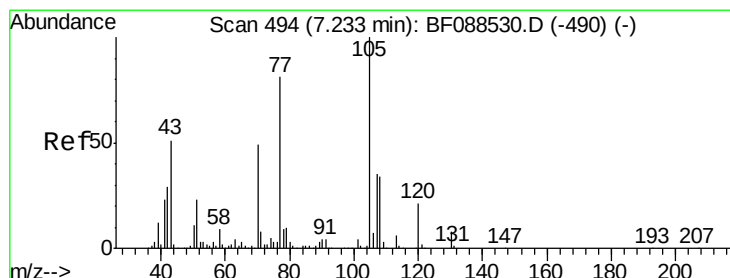
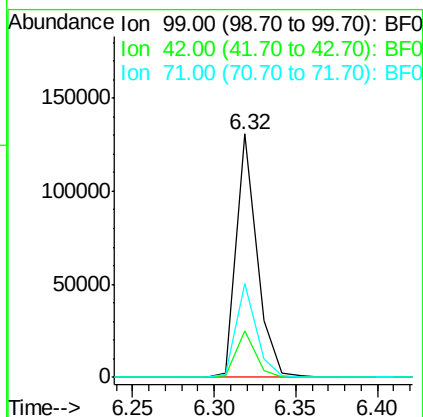
Tgt Ion: 99 Resp: 114438

Ion Ratio Lower Upper

99 100

42 19.2 12.2 18.2#

71 38.5 23.4 35.0#



#19

n-Nitroso-di-n-propylamine

Concen: 2.57 ng

RT: 7.23 min Scan# 494

Delta R.T. 0.09 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

Tgt Ion: 70 Resp: 9164

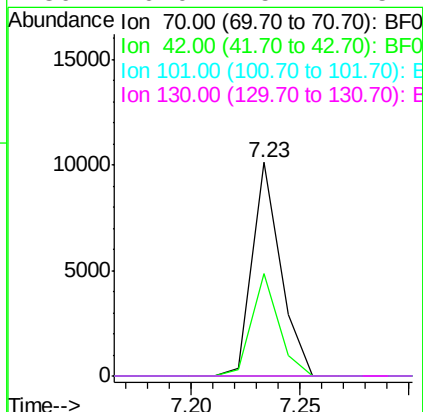
Ion Ratio Lower Upper

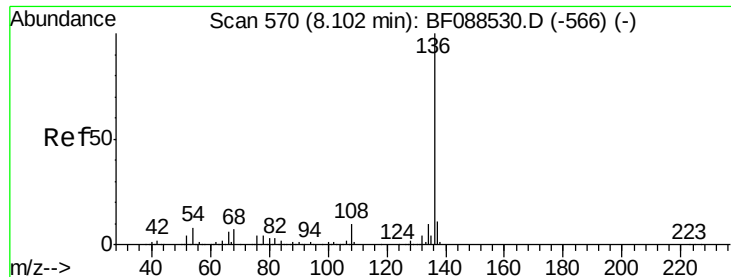
70 100

42 47.9 49.6 74.4#

101 0.0 7.1 10.7#

130 0.0 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. -0.03 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

Instrument :

BNA\_F

ClientSampleId :

LSS-SB-SB03(0-2in)

Tgt Ion:136 Resp: 244306

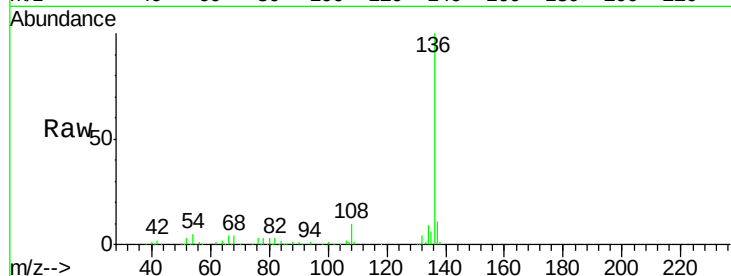
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 5.2 6.6 10.0#

68 4.4 5.1 7.7#

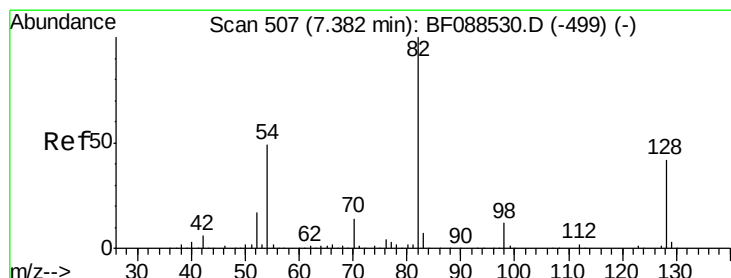
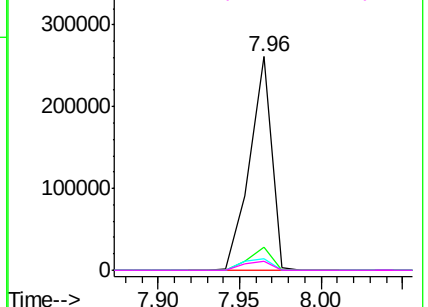
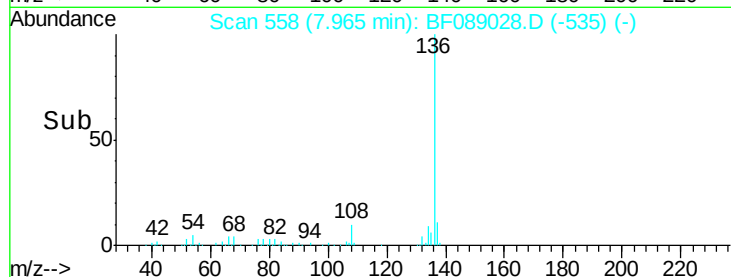


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 13.90 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.05 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

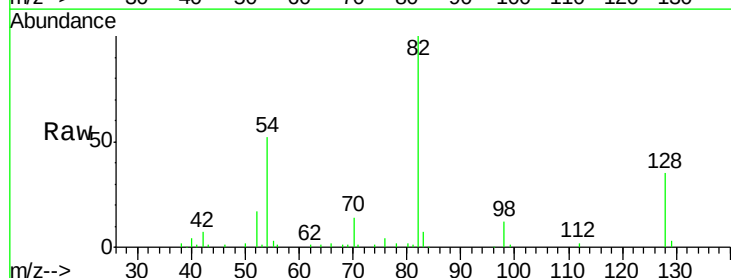
Tgt Ion: 82 Resp: 64822

Ion Ratio Lower Upper

82 100

128 35.4 35.9 53.9#

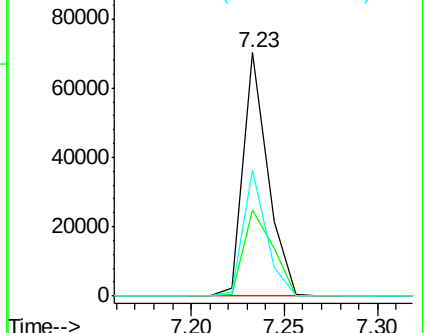
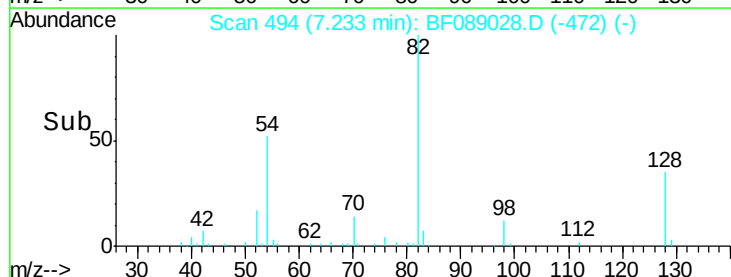
54 51.6 40.9 61.3

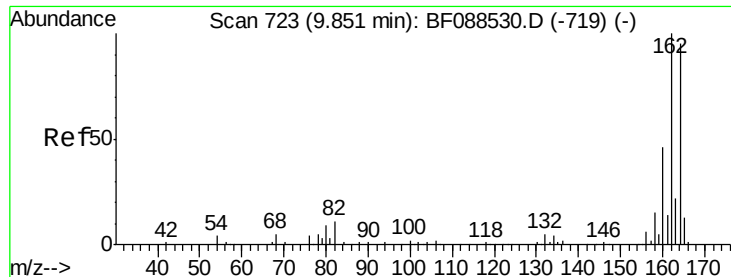


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.71 min Scan# 711

Delta R.T. -0.03 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

Instrument :

BNA\_F

ClientSampleId :

LSS-SB-SB03(0-2in)

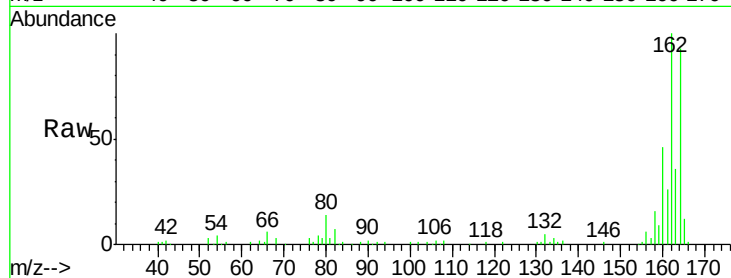
Tgt Ion:164 Resp: 92790

Ion Ratio Lower Upper

164 100

162 107.1 85.4 128.2

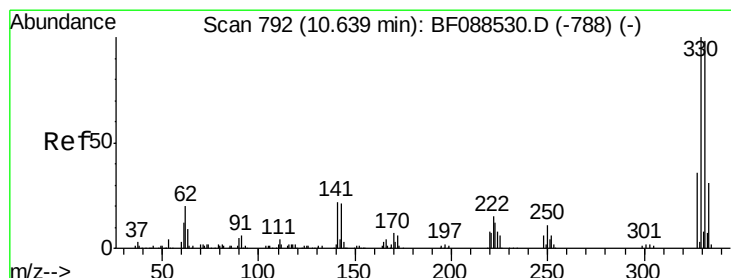
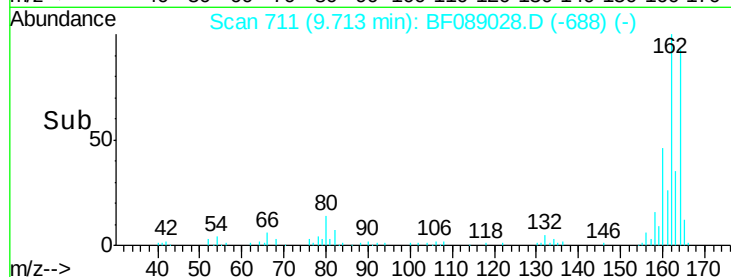
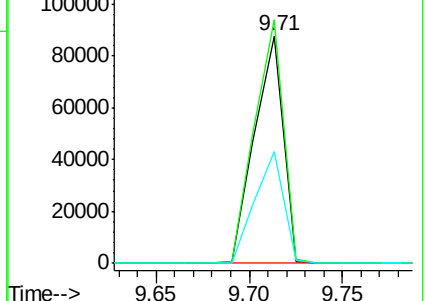
160 49.1 39.5 59.3



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: 16.78 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.05 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

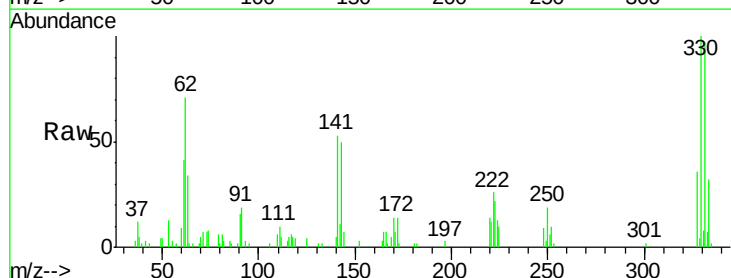
Tgt Ion:330 Resp: 14461

Ion Ratio Lower Upper

330 100

332 97.5 0.0 0.0#

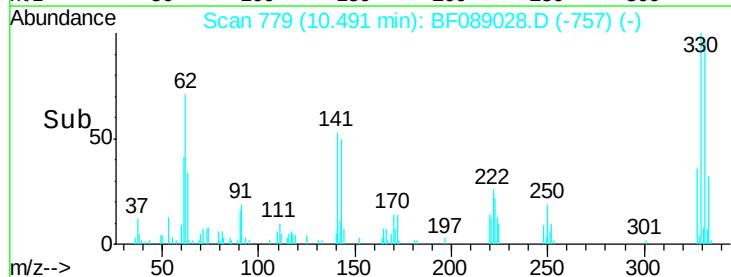
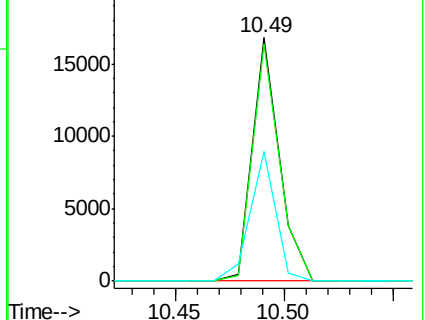
141 50.6 0.0 0.0#

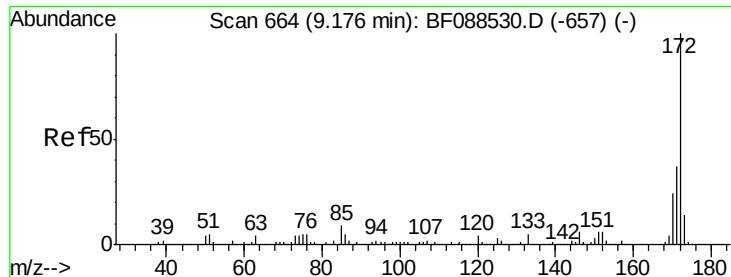


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

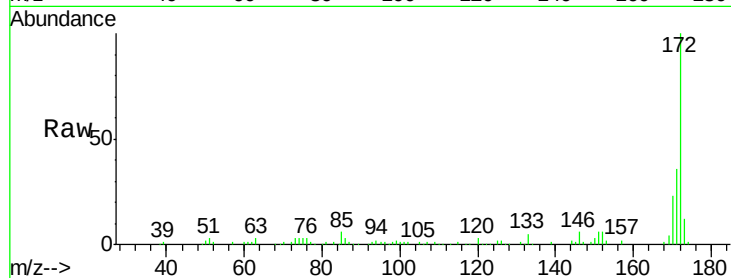




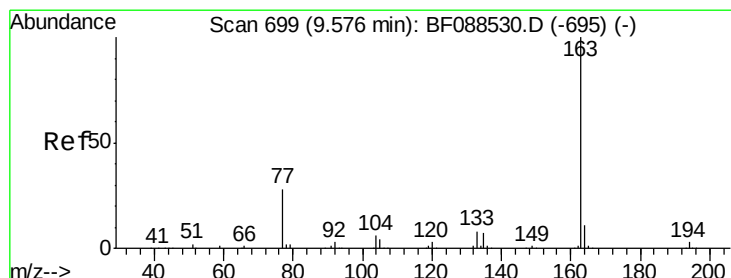
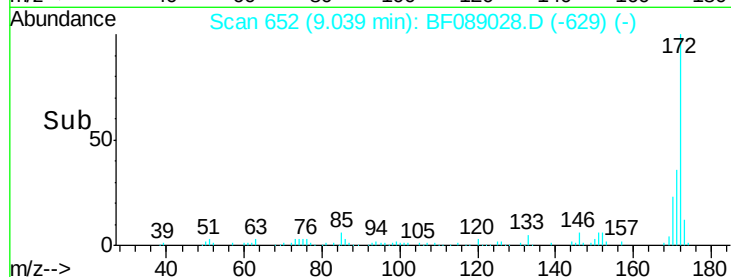
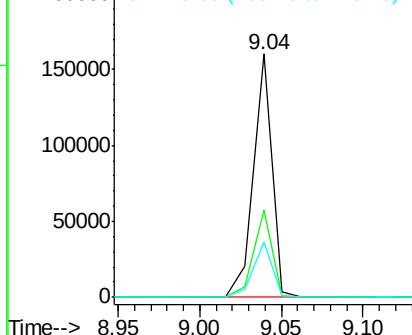
#44  
2-Fluorobiphenyl  
Concen: 21.62 ng  
RT: 9.04 min Scan# 652  
Delta R.T. -0.03 min  
Lab File: BF089028.D  
Acq: 15 Jul 2016 21:00

Instrument :  
BNA\_F  
ClientSampleId :  
LSS-SB-SB03(0-2in)

Tgt Ion:172 Resp: 127006  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.6 43.0  
170 23.0 19.2 28.8

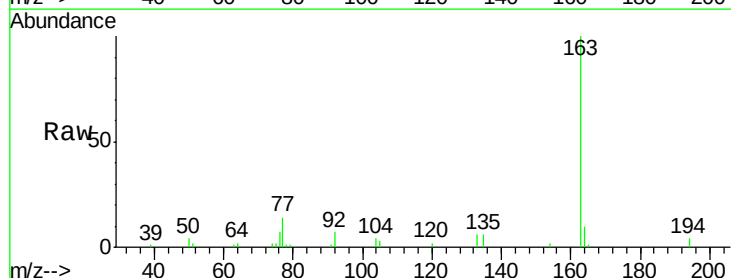


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

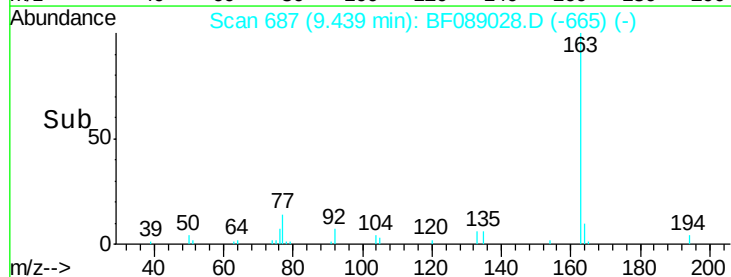
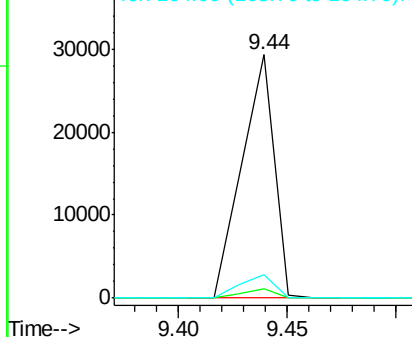


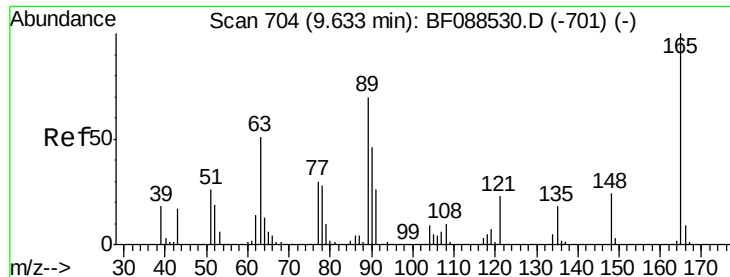
#49  
Dimethylphthalate  
Concen: 4.55 ng  
RT: 9.44 min Scan# 687  
Delta R.T. -0.05 min  
Lab File: BF089028.D  
Acq: 15 Jul 2016 21:00

Tgt Ion:163 Resp: 30107  
Ion Ratio Lower Upper  
163 100  
194 4.0 2.8 4.2  
164 9.7 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

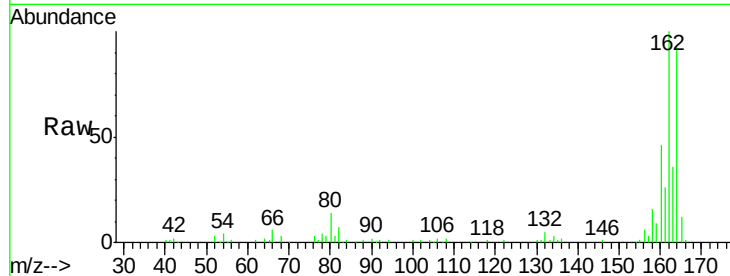




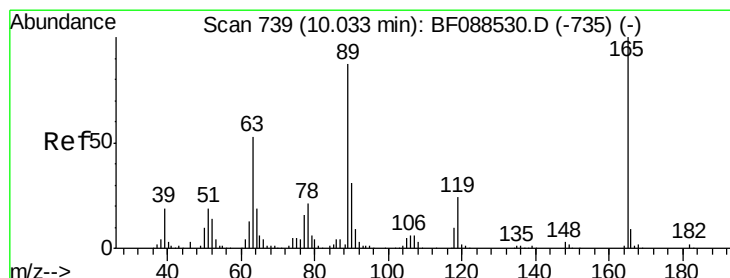
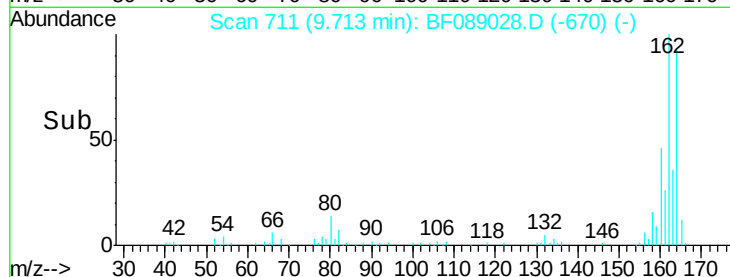
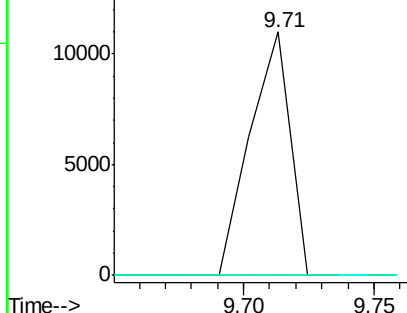
#50  
 2,6-Dinitrotoluene  
 Concen: 8.07 ng  
 RT: 9.71 min Scan# 711  
 Delta R.T. 0.17 min  
 Lab File: BF089028.D  
 Acq: 15 Jul 2016 21:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LSS-SB-SB03(0-2in)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 28.1  | 42.1# |
| 89      | 0.0   | 32.2  | 48.2# |



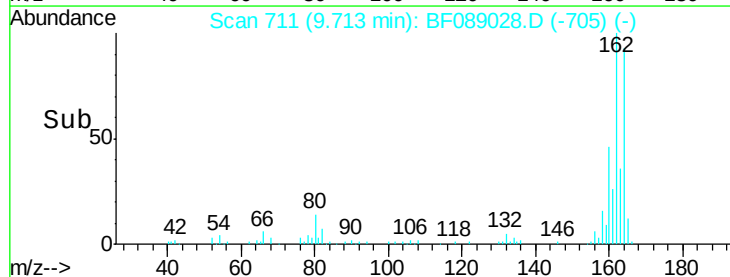
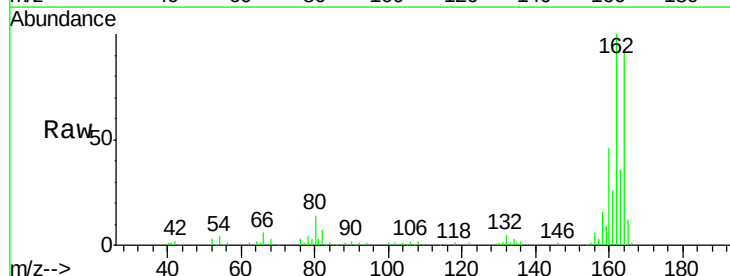
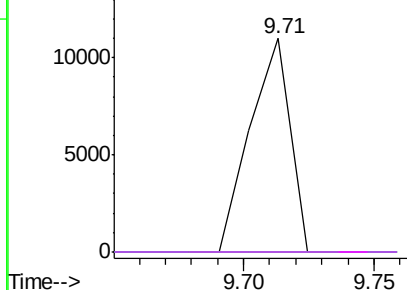
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0



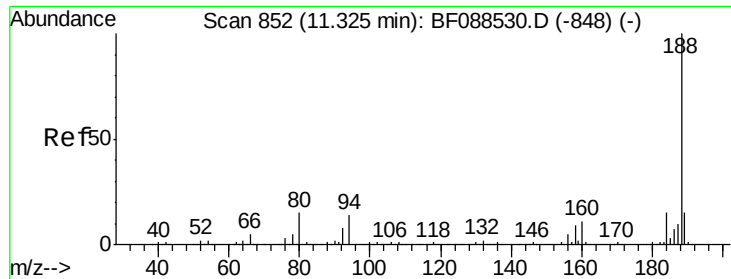
#56  
 2,4-Dinitrotoluene  
 Concen: 6.17 ng  
 RT: 9.71 min Scan# 711  
 Delta R.T. -0.23 min  
 Lab File: BF089028.D  
 Acq: 15 Jul 2016 21:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 22.0  | 33.0# |
| 89      | 0.0   | 41.1  | 61.7# |
| 182     | 0.0   | 2.0   | 3.0#  |

Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E



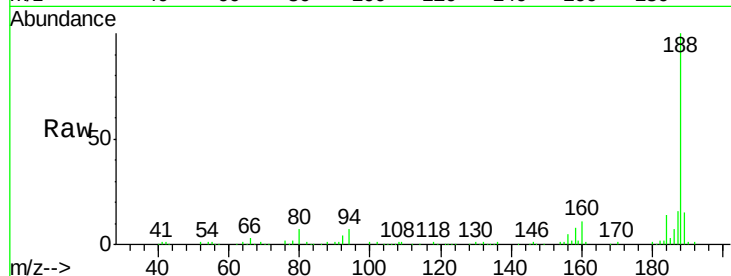




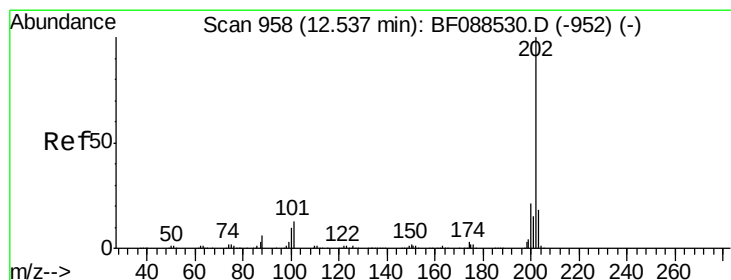
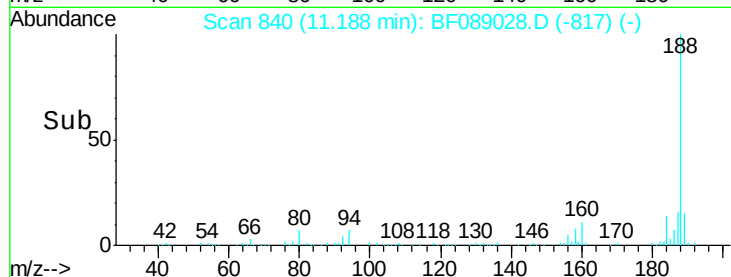
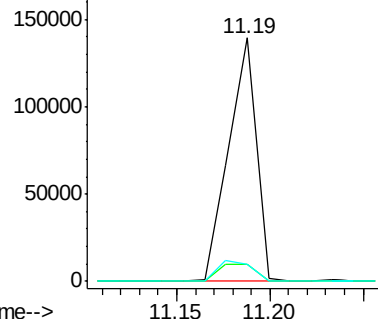
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.19 min Scan# 840  
Delta R.T. -0.03 min  
Lab File: BF089028.D  
Acq: 15 Jul 2016 21:00

Instrument :  
BNA\_F  
ClientSampleId :  
LSS-SB-SB03(0-2in)

Tgt Ion:188 Resp: 142708  
Ion Ratio Lower Upper  
188 100  
94 6.9 9.0 13.6#  
80 7.2 10.0 15.0#

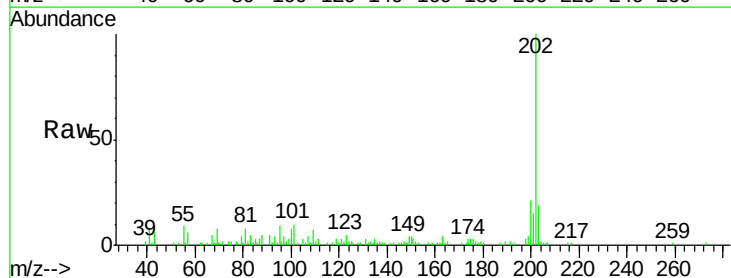


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

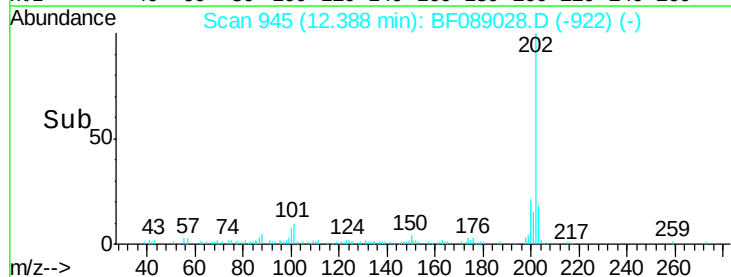
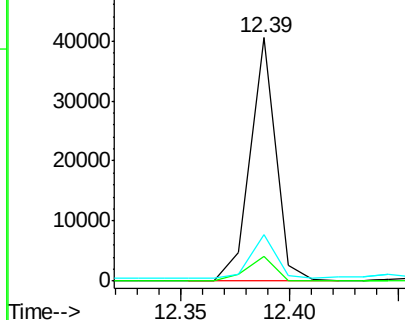


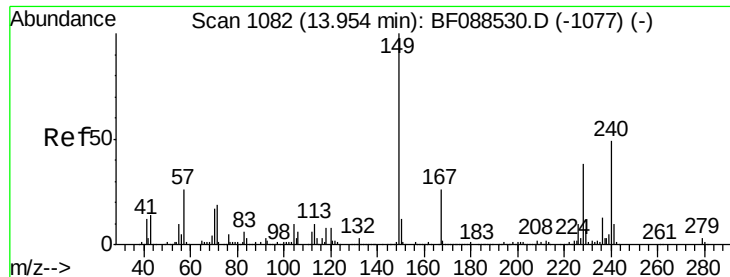
#74  
Fluoranthene  
Concen: 4.18 ng  
RT: 12.39 min Scan# 945  
Delta R.T. -0.03 min  
Lab File: BF089028.D  
Acq: 15 Jul 2016 21:00

Tgt Ion:202 Resp: 33071  
Ion Ratio Lower Upper  
202 100  
101 10.1 0.0 33.1  
203 18.8 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: 13.81 min Scan# 1069

Delta R.T. -0.05 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

Instrument :

BNA\_F

ClientSampleId :

LSS-SB-SB03(0-2in)

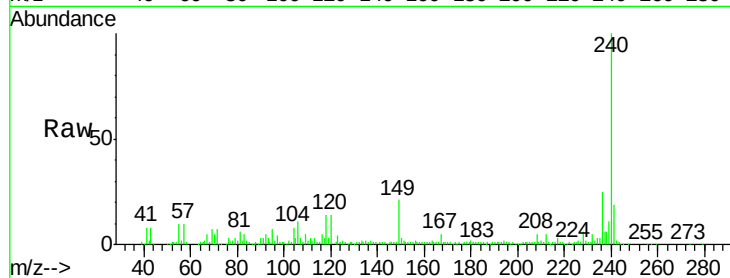
Tgt Ion:240 Resp: 107907

Ion Ratio Lower Upper

240 100

120 14.3 6.8 10.2#

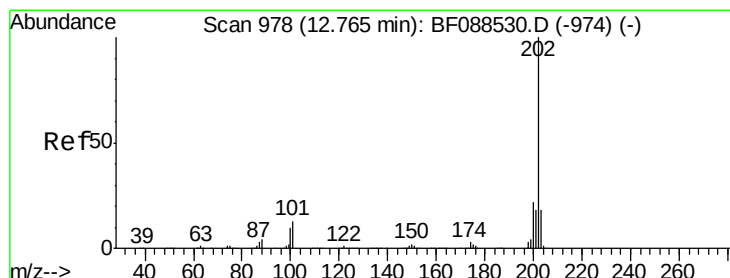
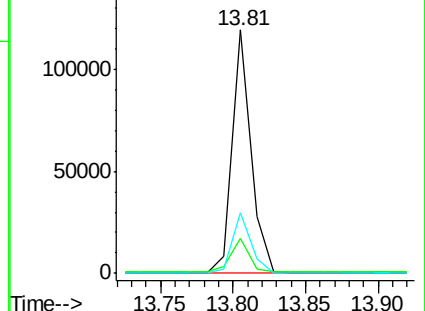
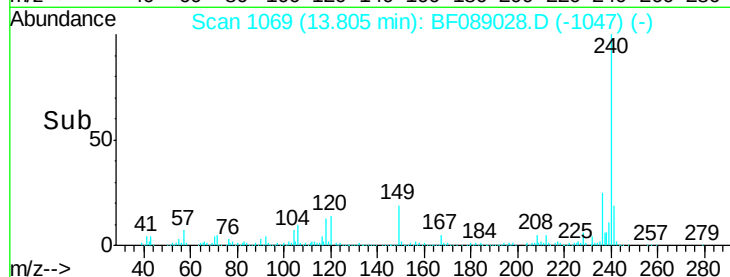
236 24.7 20.2 30.2



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: 3.55 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

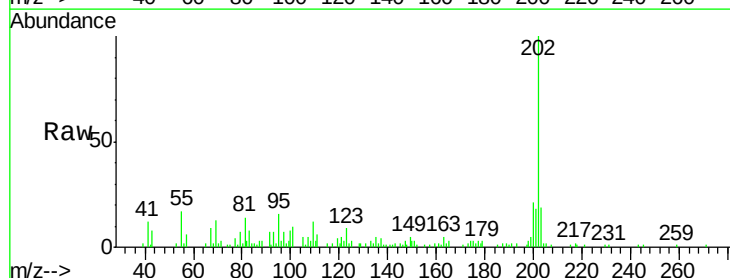
Tgt Ion:202 Resp: 32492

Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.2

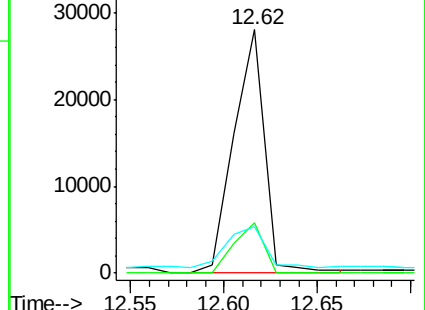
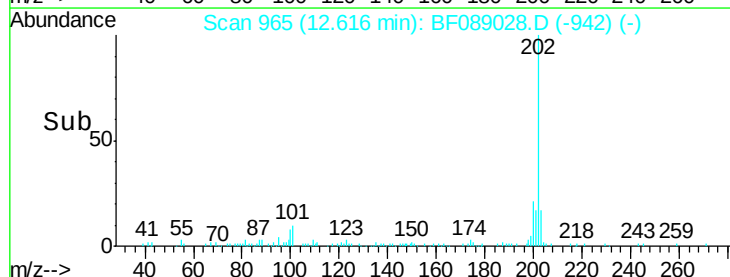
203 18.9 14.5 21.7

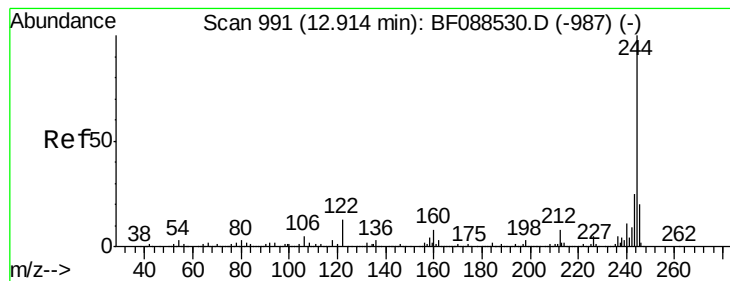


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 14.34 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

Instrument :

BNA\_F

ClientSampleId :

LSS-SB-SB03(0-2in)

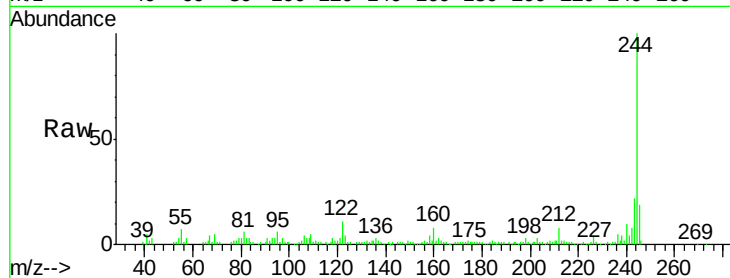
Tgt Ion:244 Resp: 69464

Ion Ratio Lower Upper

244 100

212 7.8 6.0 9.0

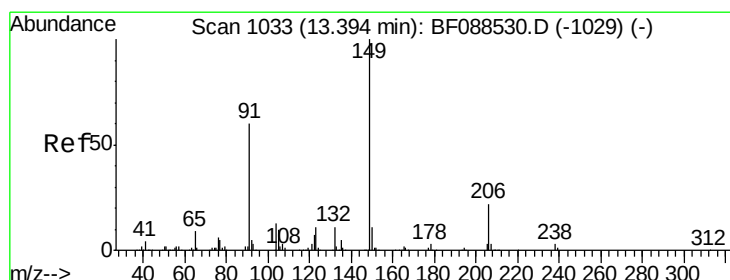
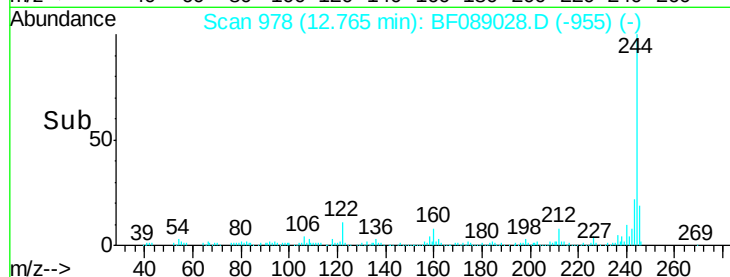
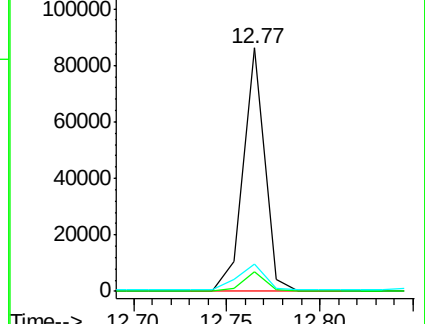
122 11.2 11.2 16.8



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



#79

Butylbenzylphthalate

Concen: 6.23 ng

RT: 13.25 min Scan# 1020

Delta R.T. -0.03 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

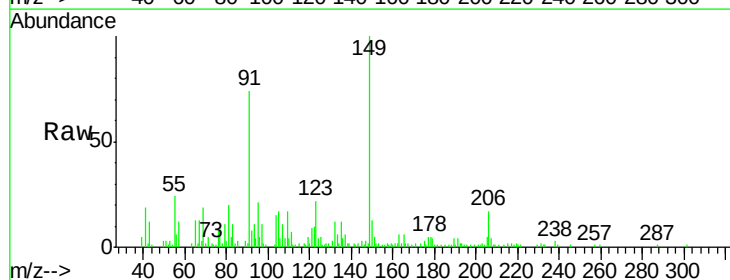
Tgt Ion:149 Resp: 25426

Ion Ratio Lower Upper

149 100

91 73.6 48.0 72.0#

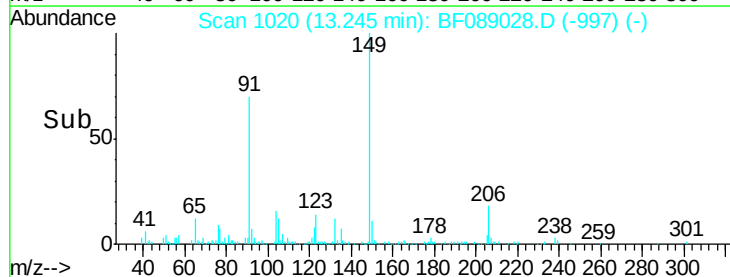
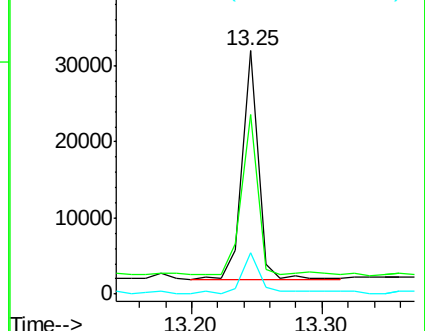
206 17.2 16.0 24.0

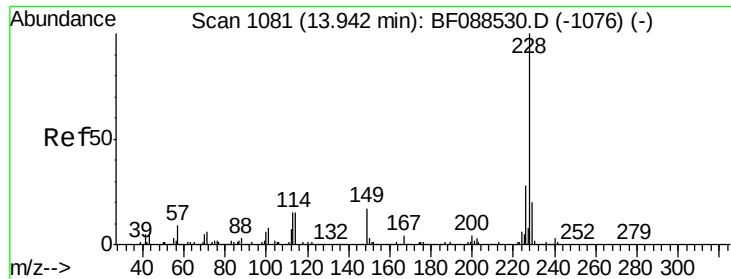


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 2.92 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.05 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

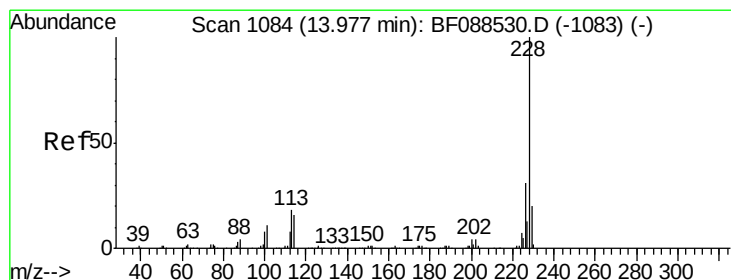
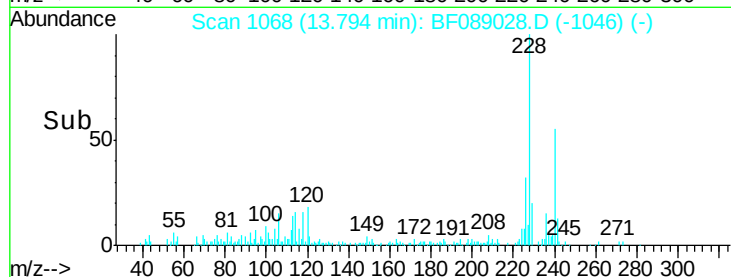
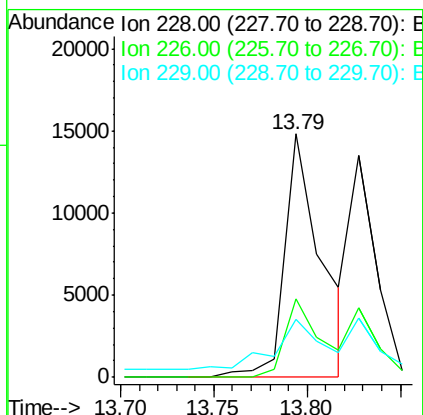
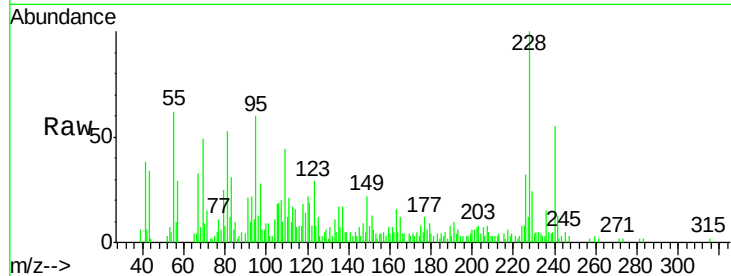
Instrument :

BNA\_F

ClientSampleId :

LSS-SB-SB03(0-2in)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 20285 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 32.3  | 22.3  | 33.5  |
| 229      | 23.9  | 16.0  | 24.0  |



#82

Chrysene

Concen: 2.95 ng

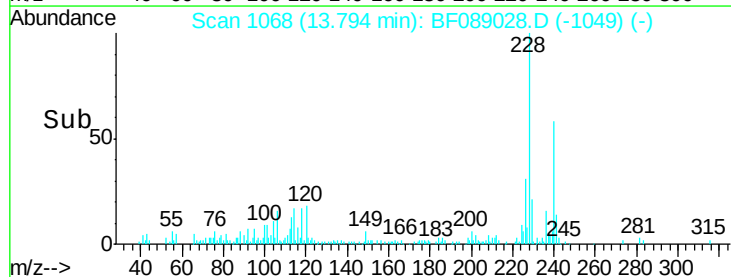
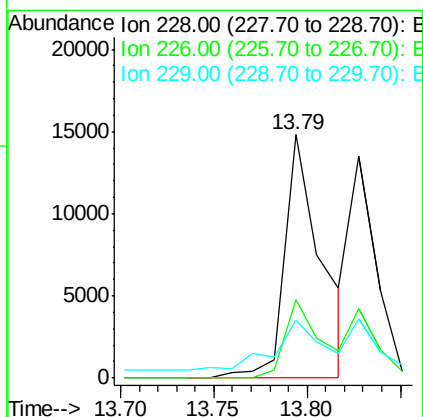
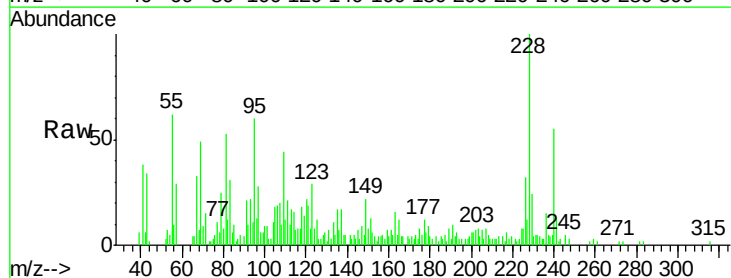
RT: 13.79 min Scan# 1068

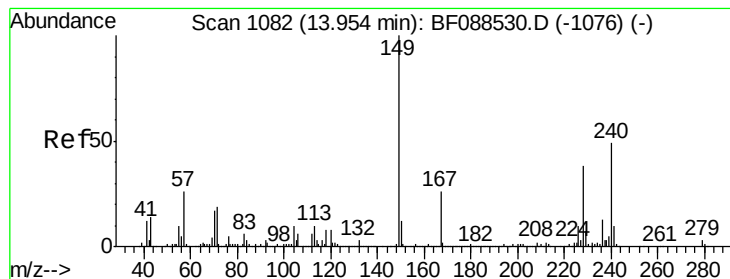
Delta R.T. -0.08 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 20285 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 32.3  | 25.4  | 38.2  |
| 229      | 23.9  | 16.3  | 24.5  |





#83

Bis(2-ethylhexyl)phthalate

Concen: 6.52 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

Instrument :

BNA\_F

ClientSampleId :

LSS-SB-SB03(0-2in)

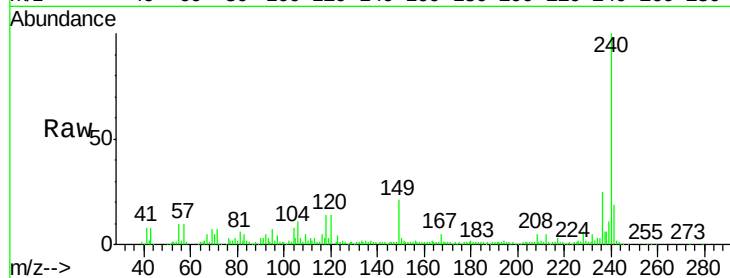
Tgt Ion:149 Resp: 30377

Ion Ratio Lower Upper

149 100

167 24.3 20.5 30.7

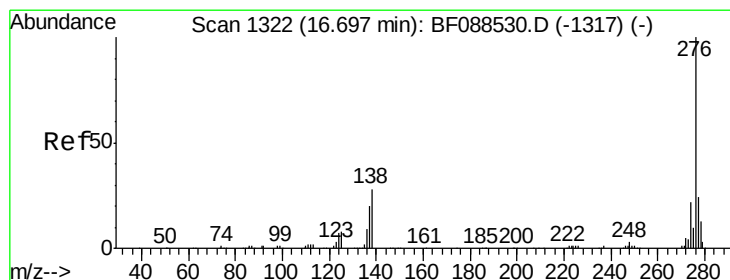
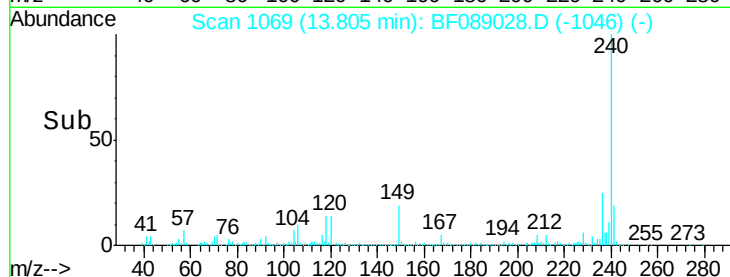
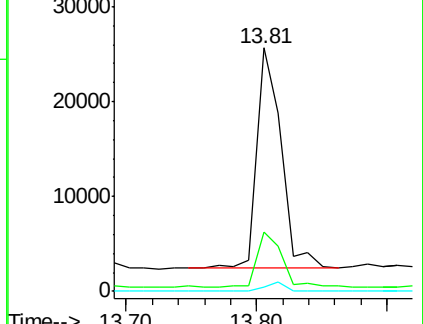
279 1.7 2.0 3.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.06 ng

RT: 16.45 min Scan# 1300

Delta R.T. -0.06 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

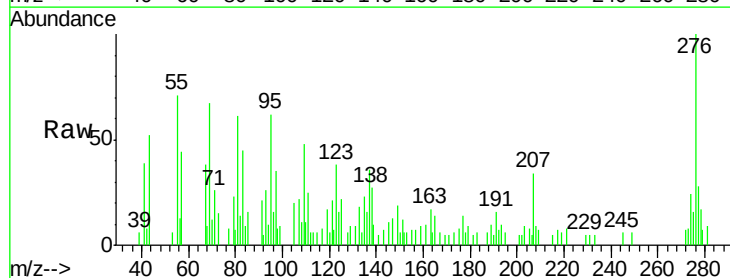
Tgt Ion:276 Resp: 10869

Ion Ratio Lower Upper

276 100

138 22.6 0.0 0.0#

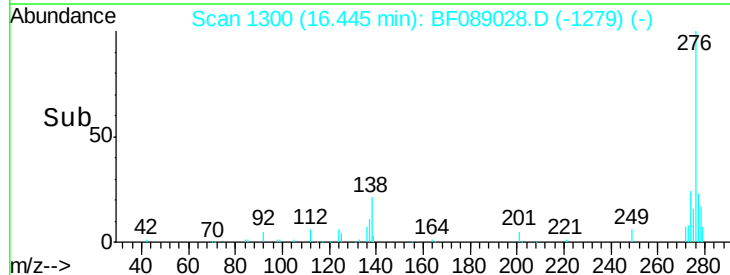
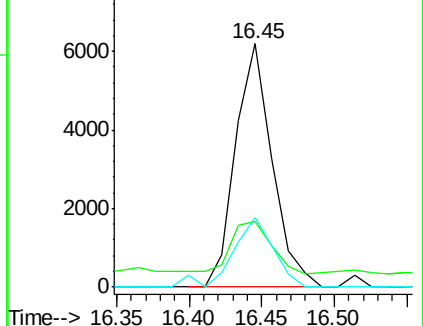
277 31.2 0.0 0.0#

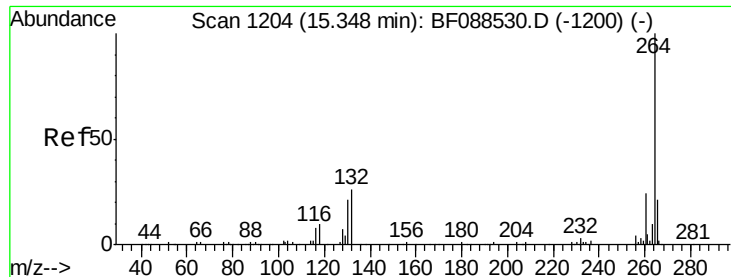


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.18 min Scan# 1189

Delta R.T. -0.03 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

Instrument :

BNA\_F

ClientSampleId :

LSS-SB-SB03(0-2in)

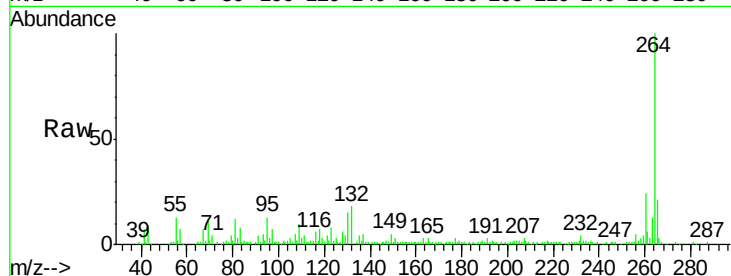
Tgt Ion:264 Resp: 83261

Ion Ratio Lower Upper

264 100

260 23.8 19.2 28.8

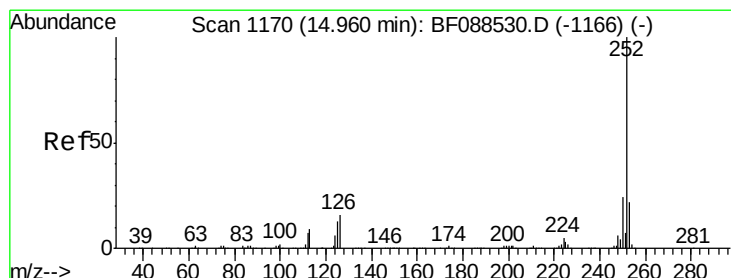
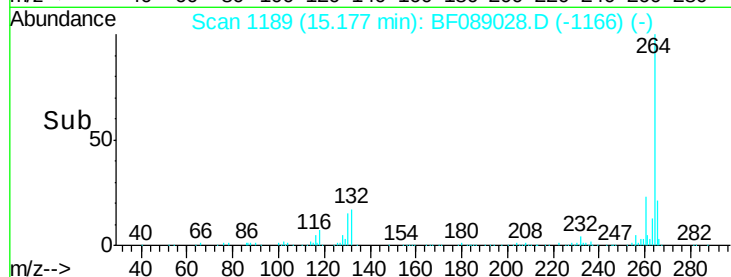
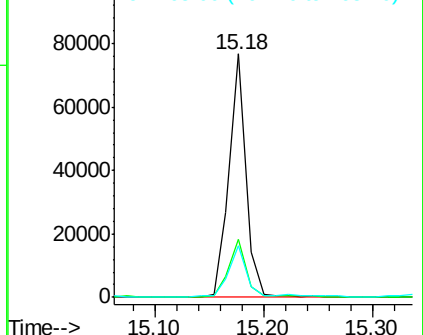
265 21.1 16.9 25.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 5.83 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.03 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

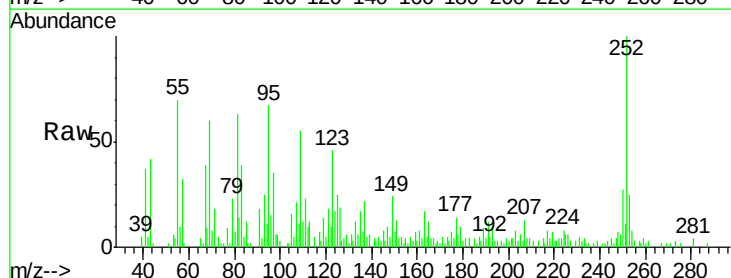
Tgt Ion:252 Resp: 30439

Ion Ratio Lower Upper

252 100

253 25.1 17.4 26.2

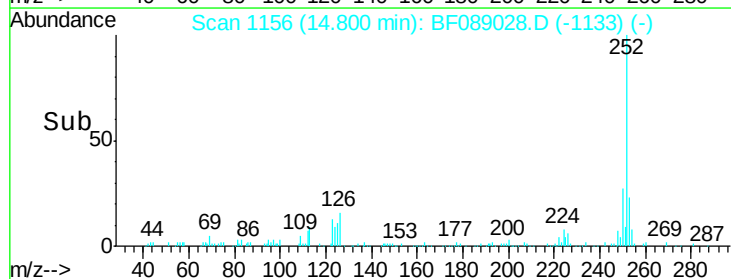
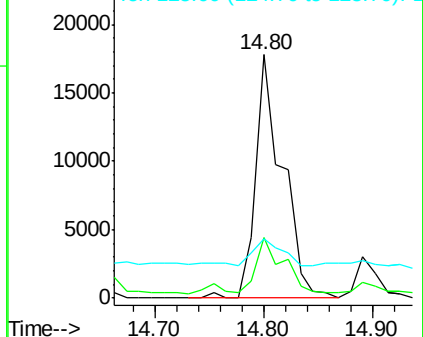
125 24.6 7.1 10.7#

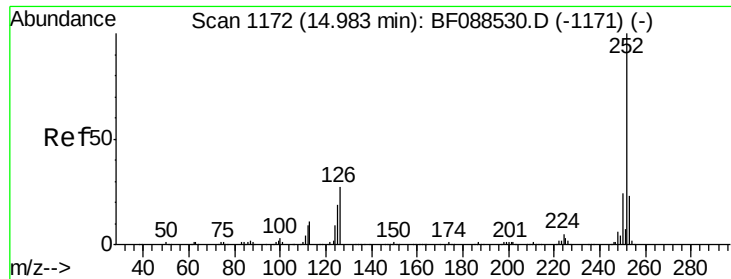


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

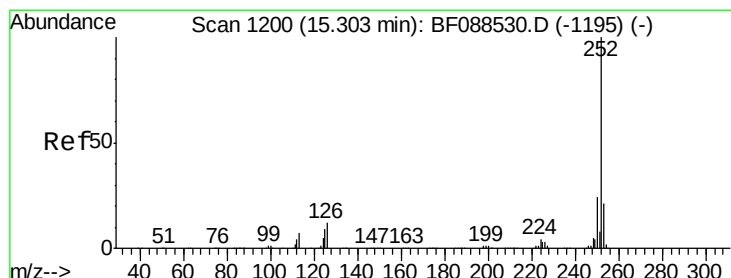
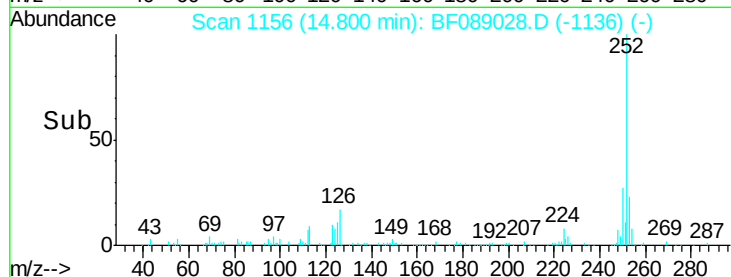
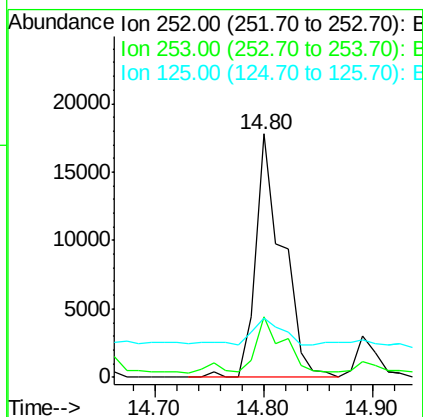
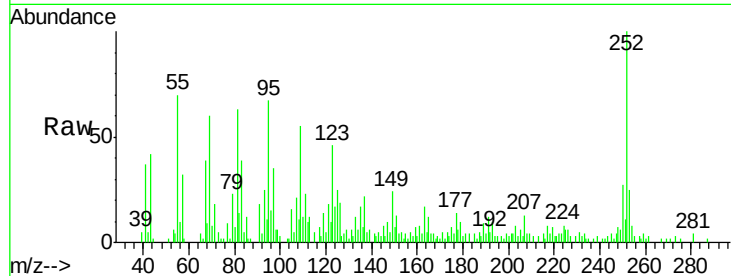




#88  
Benzo(k)fluoranthene  
Concen: 6.69 ng  
RT: 14.80 min Scan# 1156  
Delta R.T. -0.07 min  
Lab File: BF089028.D  
Acq: 15 Jul 2016 21:00

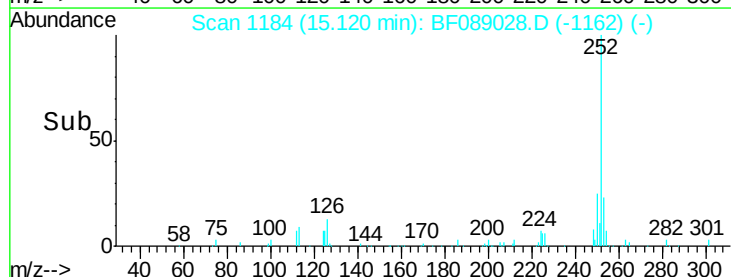
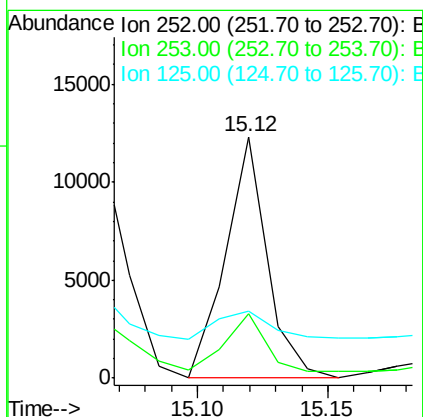
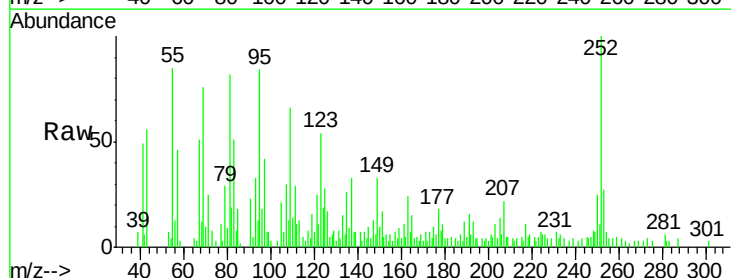
Instrument :  
BNA\_F  
ClientSampleId :  
LSS-SB-SB03(0-2in)

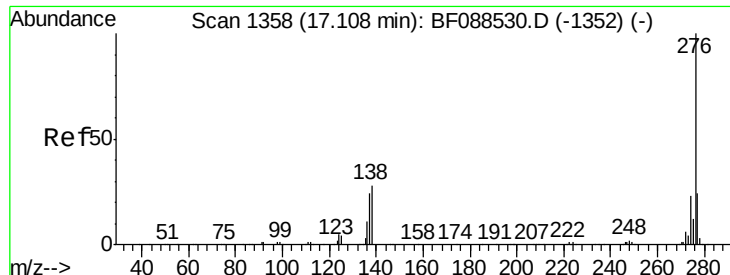
Tgt Ion: 252 Resp: 30439  
Ion Ratio Lower Upper  
252 100  
253 25.1 18.0 27.0  
125 24.6 11.2 16.8#



#89  
Benzo(a)pyrene  
Concen: 3.12 ng  
RT: 15.12 min Scan# 1184  
Delta R.T. -0.05 min  
Lab File: BF089028.D  
Acq: 15 Jul 2016 21:00

Tgt Ion: 252 Resp: 13780  
Ion Ratio Lower Upper  
252 100  
253 26.6 17.9 26.9  
125 27.9 12.5 18.7#





#91

Benzo(g,h,i)perylene

Concen: 3.17 ng

RT: 16.82 min Scan# 1333

Delta R.T. -0.07 min

Lab File: BF089028.D

Acq: 15 Jul 2016 21:00

Instrument :

BNA\_F

ClientSampleId :

LSS-SB-SB03(0-2in)

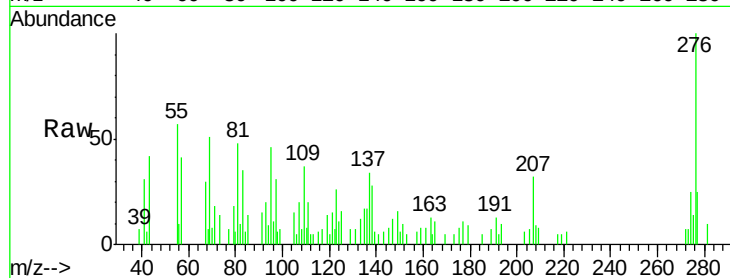
Tgt Ion: 276 Resp: 12120

Ion Ratio Lower Upper

276 100

277 24.6 18.9 28.3

138 27.6 21.4 32.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

