

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF053116\  
 Data File : BF087603.D  
 Acq On : 1 Jun 2016 3:45  
 Operator : UM/SJ  
 Sample : H3211-04DL 10X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

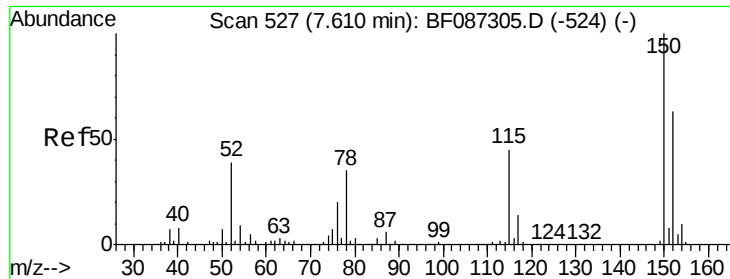
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TA-1304-(0-4)DL

Quant Time: Jun 01 04:16:39 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 01 03:17:16 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.46  | 152  | 111444   | 20.00 | ng    | 0.01      |
| 21) Naphthalene-d8          | 9.48  | 136  | 456106   | 20.00 | ng    | 0.01      |
| 38) Acenaphthene-d10        | 12.30 | 164  | 223876   | 20.00 | ng    | -0.01     |
| 63) Phenanthrene-d10        | 14.71 | 188  | 429066   | 20.00 | ng    | 0.00      |
| 75) Chrysene-d12            | 18.42 | 240  | 288447   | 20.00 | ng    | 0.00      |
| 86) Perylene-d12            | 20.11 | 264  | 226386   | 20.00 | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |       |       |           |
| 5) 2-Fluorophenol           | 0.00  | 112  | 0        | 0.00  | ng    |           |
| 7) Phenol-d6                | 7.20  | 99   | 36252    | 4.23  | ng    | 0.18      |
| 23) Nitrobenzene-d5         | 8.54  | 82   | 30854    | 3.41  | ng    | 0.16      |
| 41) 2,4,6-Tribromophenol    | 13.66 | 330  | 14918    | 6.93  | ng    | 0.05      |
| 44) 2-Fluorobiphenyl        | 11.28 | 172  | 104453   | 6.58  | ng    | 0.02      |
| 78) Terphenyl-d14           | 17.06 | 244  | 90889    | 6.70  | ng    | 0.00      |
| Target Compounds            |       |      |          |       |       |           |
| 48) Acenaphthylene          | 12.11 | 152  | 56529    | 2.48  | ng    | Qvalue 98 |
| 50) 2,6-Dinitrotoluene      | 12.30 | 165  | 20236    | 5.60  | ng    | # 21      |
| 70) Phenanthrene            | 14.78 | 178  | 99438    | 4.18  | ng    | 99        |
| 71) Anthracene              | 14.78 | 178  | 99438    | 4.14  | ng    | 99        |
| 74) Fluoranthene            | 16.54 | 202  | 332099   | 13.93 | ng    | 92        |
| 77) Pyrene                  | 16.83 | 202  | 317046   | 15.27 | ng    | 97        |
| 80) Benzo(a)anthracene      | 18.41 | 228  | 173791   | 10.59 | ng    | 100       |
| 82) Chrysene                | 18.41 | 228  | 173791   | 10.67 | ng    | 97        |
| 87) Benzo(b)fluoranthene    | 19.85 | 252  | 49119    | 3.41  | ng    | 94        |
| 88) Benzo(k)fluoranthene    | 19.71 | 252  | 317266   | 25.56 | ng    | 98        |
| 89) Benzo(a)pyrene          | 20.07 | 252  | 153695   | 12.32 | ng    | 98        |
| 91) Benzo(g,h,i)perylene    | 21.74 | 276  | 113544   | 10.82 | ng    | # 93      |

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



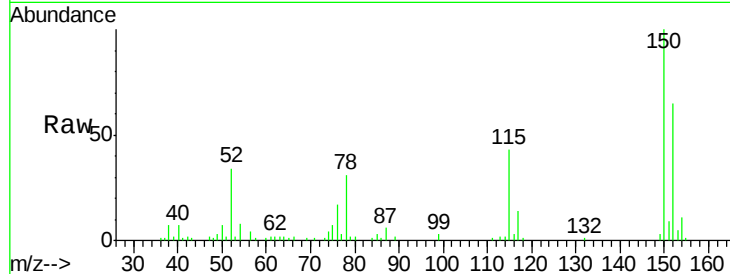


#1

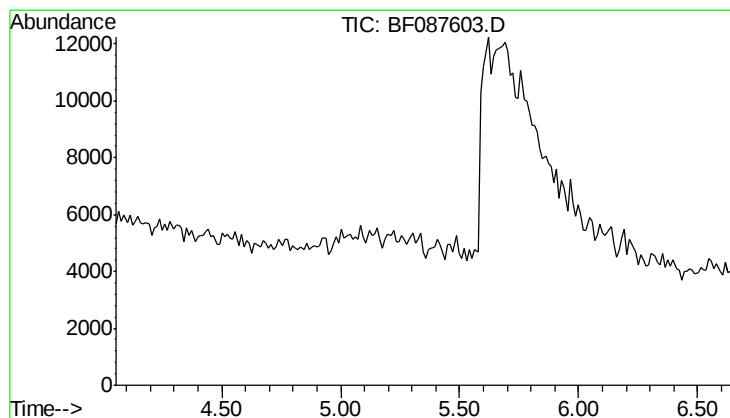
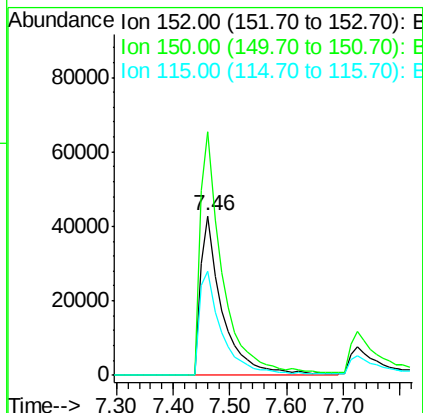
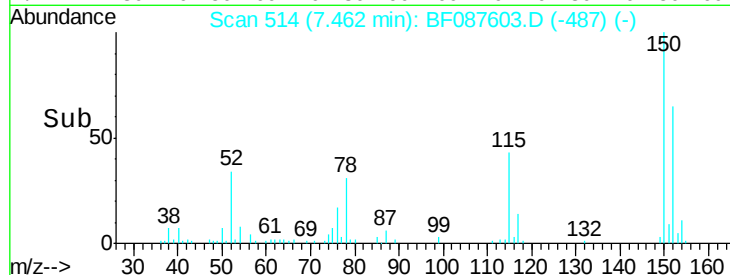
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.46 min Scan# 514  
Delta R.T. 0.01 min  
Lab File: BF087603.D  
Acq: 1 Jun 2016 3:45

Instrument :  
BNA\_F  
ClientSampleId :  
TA-1304-(0-4)DL

Tgt Ion:152 Resp: 111444  
Ion Ratio Lower Upper  
152 100  
150 153.0 125.8 188.6  
115 65.2 51.5 77.3



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

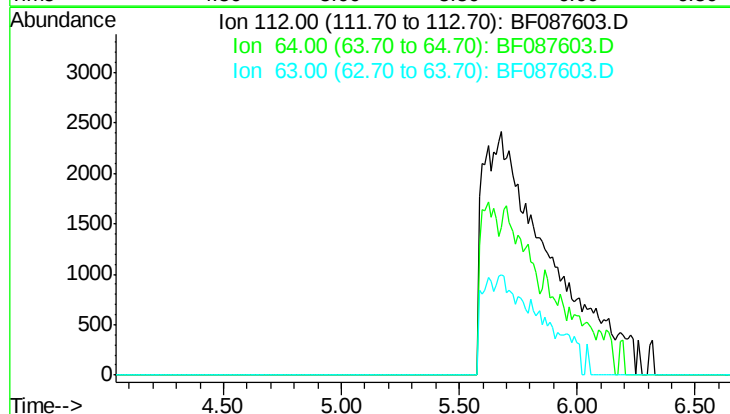


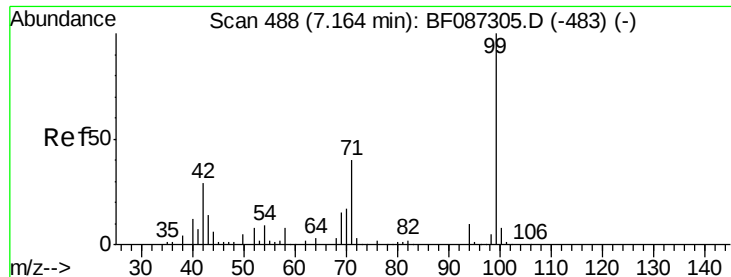
#5

2-Fluorophenol  
Concen: 0.00 ng  
Expected RT: 5.35 min

Lab File: BF087603.D  
Acq: 1 Jun 2016 3:45

Tgt Ion: 112  
Sig Exp Ratio  
112 100  
64 65.1  
63 32.1





#7

Phenol-d6

Concen: 4.23 ng

RT: 7.20 min Scan# 491

Delta R.T. 0.18 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :

BNA\_F

ClientSampleId :

TA-1304-(0-4)DL

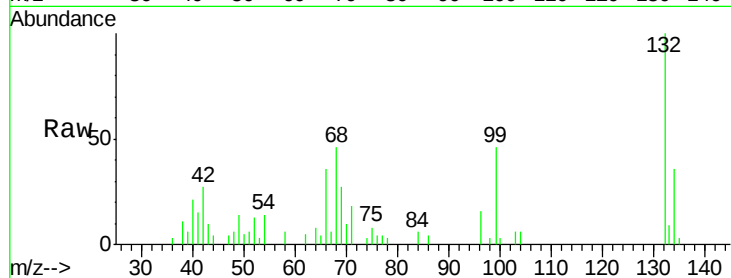
Tgt Ion: 99 Resp: 36252

Ion Ratio Lower Upper

99 100

42 58.7 13.6 20.4#

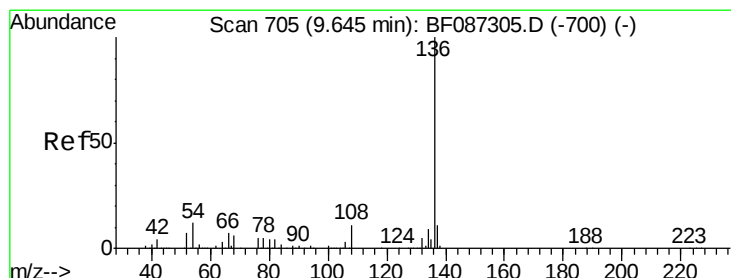
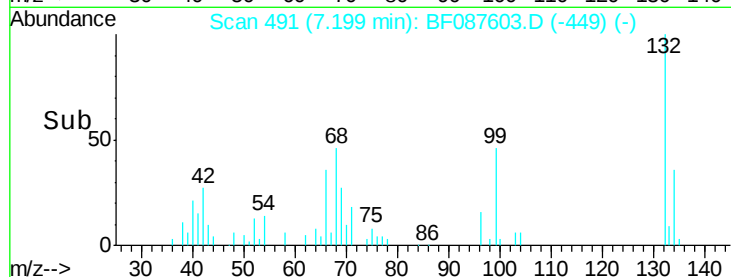
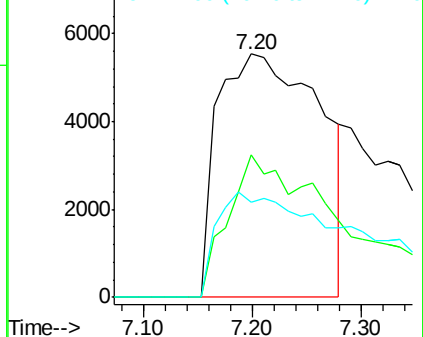
71 38.9 24.6 36.8#



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.48 min Scan# 691

Delta R.T. 0.01 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Tgt Ion: 136 Resp: 456106

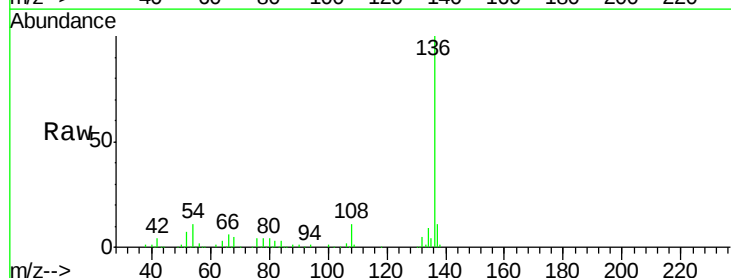
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 10.8 5.0 7.4#

68 5.2 4.4 6.6

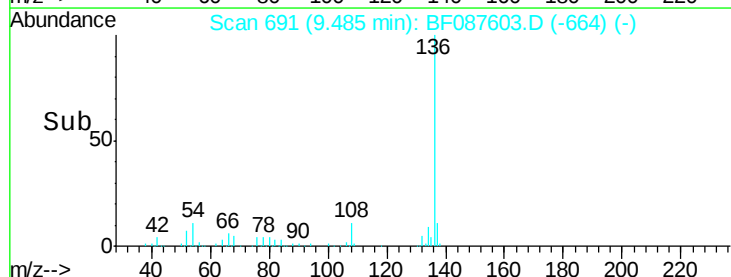
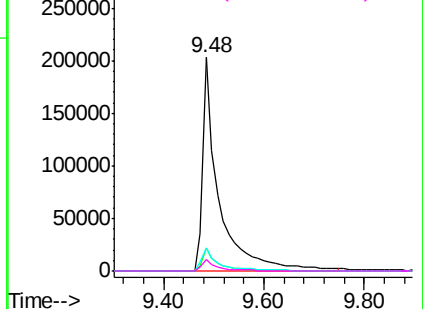


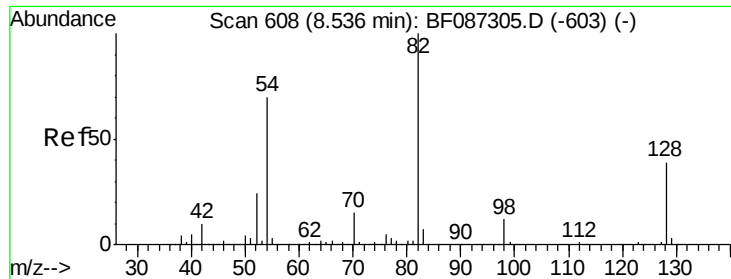
Abundance Ion 136.00 (135.70 to 136.70): E

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

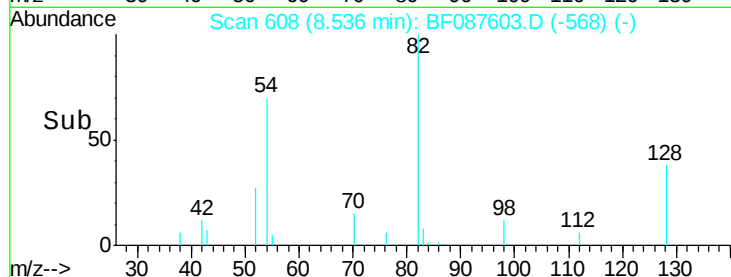
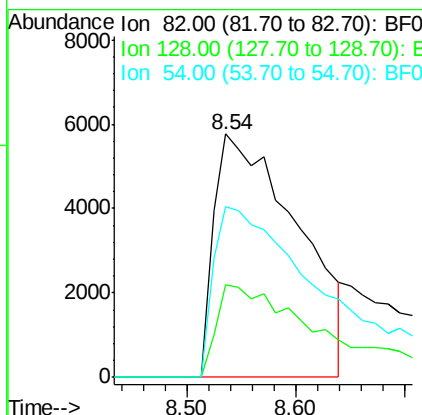
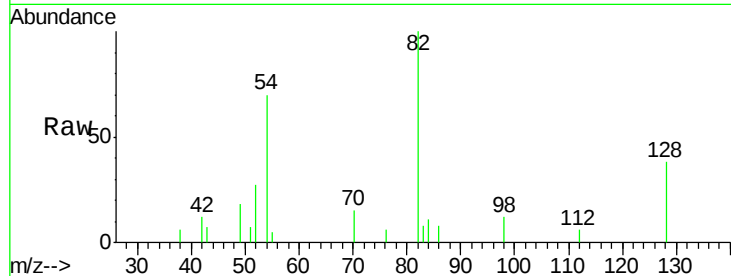




#23  
 Nitrobenzene-d5  
 Concen: 3.41 ng  
 RT: 8.54 min Scan# 608  
 Delta R.T. 0.16 min  
 Lab File: BF087603.D  
 Acq: 1 Jun 2016 3:45

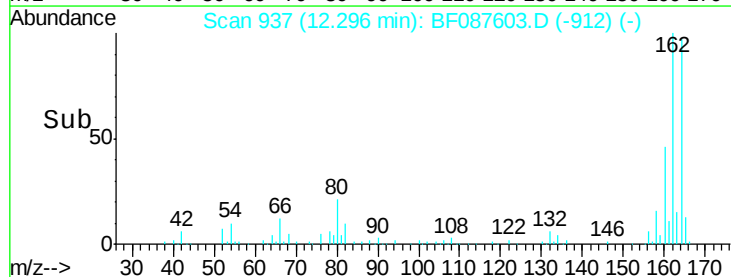
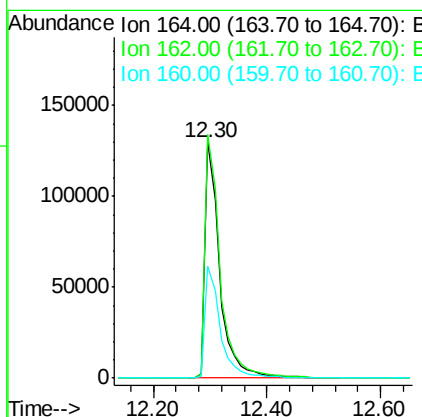
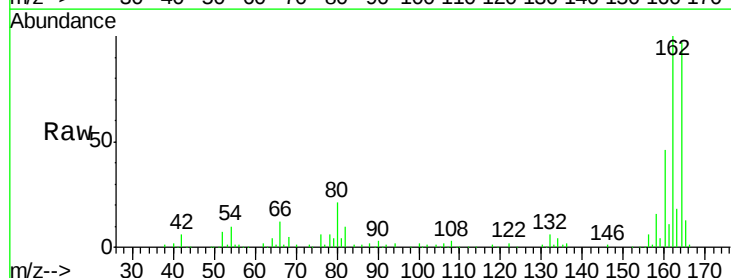
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TA-1304-(0-4)DL

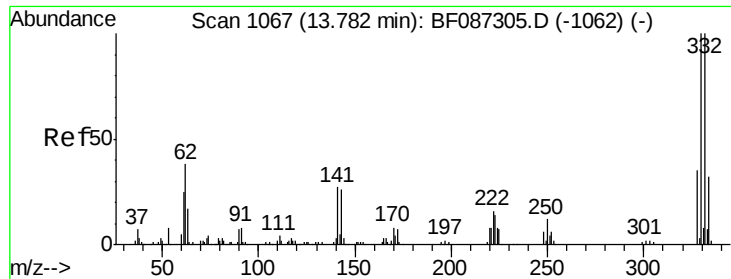
Tgt Ion: 82 Resp: 30854  
 Ion Ratio Lower Upper  
 82 100  
 128 38.2 40.6 61.0#  
 54 70.1 38.1 57.1#



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.30 min Scan# 937  
 Delta R.T. -0.01 min  
 Lab File: BF087603.D  
 Acq: 1 Jun 2016 3:45

Tgt Ion: 164 Resp: 223876  
 Ion Ratio Lower Upper  
 164 100  
 162 103.3 82.8 124.2  
 160 47.6 36.9 55.3

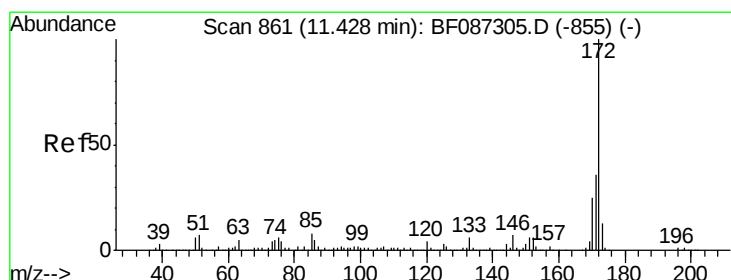
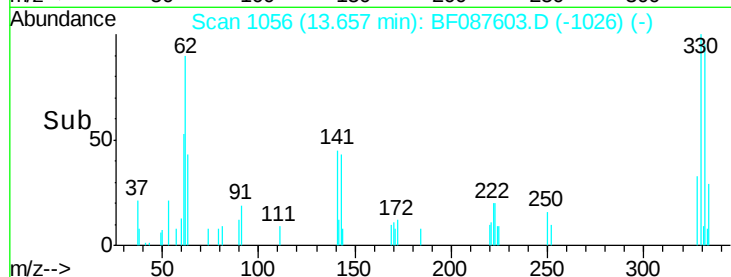
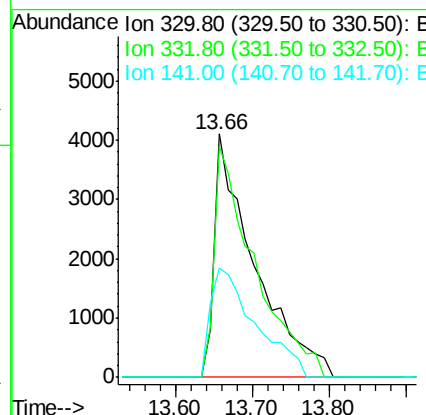
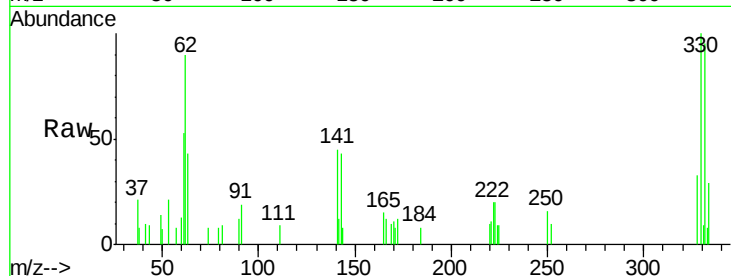




#41  
 2,4,6-Tribromophenol  
 Concen: 6.93 ng  
 RT: 13.66 min Scan# 1056  
 Delta R.T. 0.05 min  
 Lab File: BF087603.D  
 Acq: 1 Jun 2016 3:45

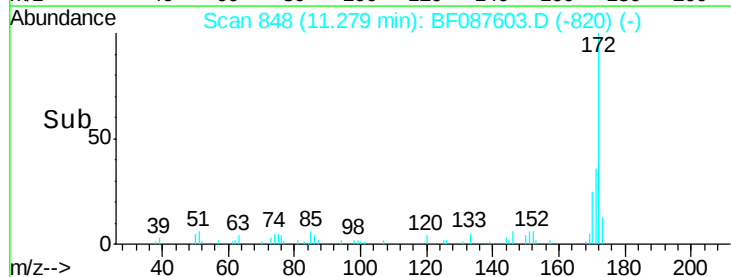
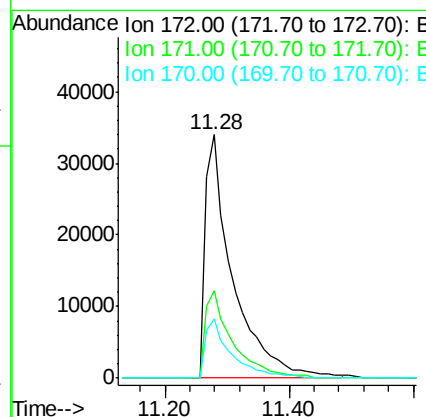
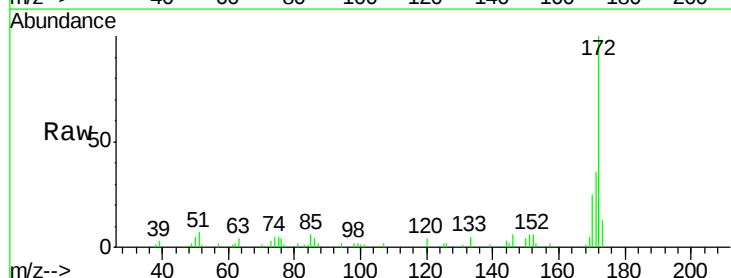
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TA-1304-(0-4)DL

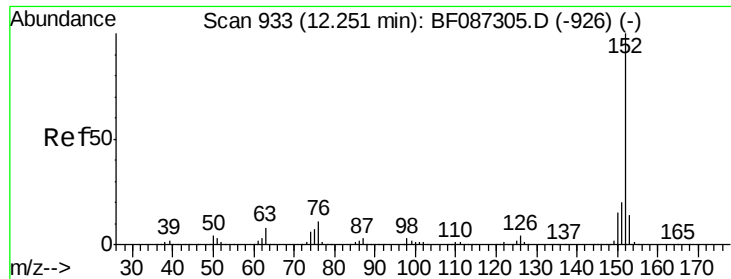
Tgt Ion:330 Resp: 14918  
 Ion Ratio Lower Upper  
 330 100  
 332 95.4 79.0 118.4  
 141 50.2 31.2 46.8#



#44  
 2-Fluorobiphenyl  
 Concen: 6.58 ng  
 RT: 11.28 min Scan# 848  
 Delta R.T. 0.02 min  
 Lab File: BF087603.D  
 Acq: 1 Jun 2016 3:45

Tgt Ion:172 Resp: 104453  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.0 43.6  
 170 24.6 19.8 29.8





#48

Acenaphthylene

Concen: 2.48 ng

RT: 12.11 min Scan# 921

Delta R.T. 0.03 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :

BNA\_F

ClientSampleId :

TA-1304-(0-4)DL

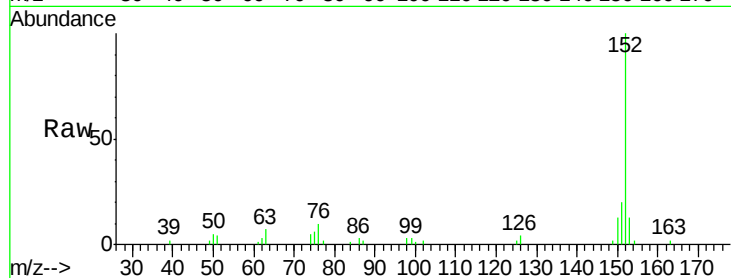
Tgt Ion:152 Resp: 56529

Ion Ratio Lower Upper

152 100

151 19.8 16.8 25.2

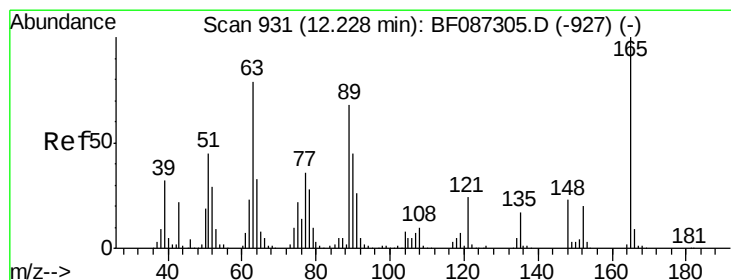
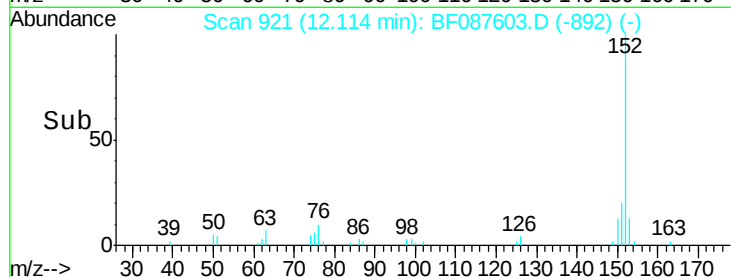
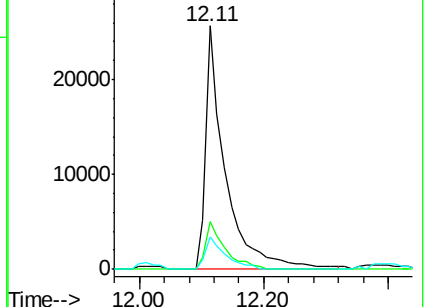
153 13.1 10.9 16.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 5.60 ng

RT: 12.30 min Scan# 937

Delta R.T. 0.23 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

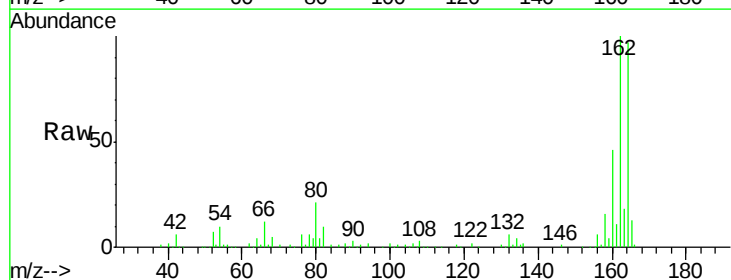
Tgt Ion:165 Resp: 20236

Ion Ratio Lower Upper

165 100

63 2.2 51.8 77.8#

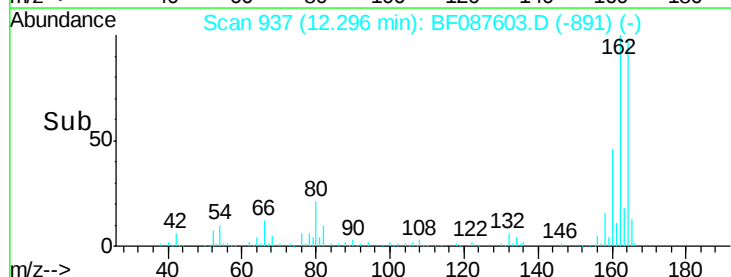
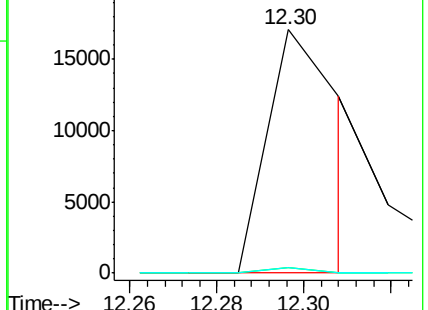
89 2.1 50.7 76.1#

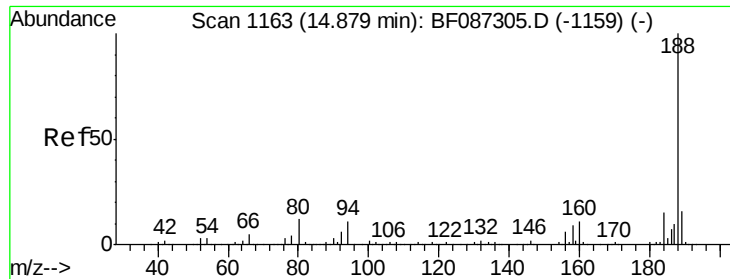


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

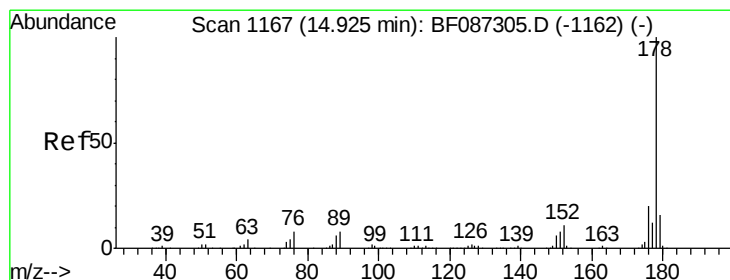
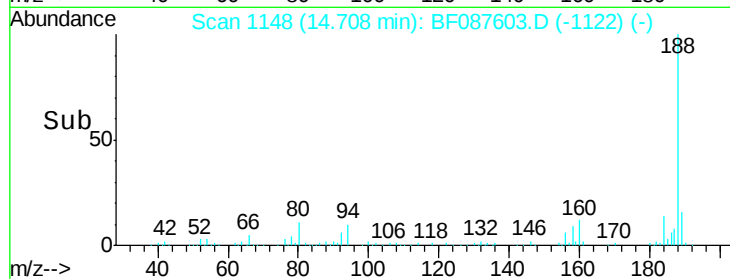
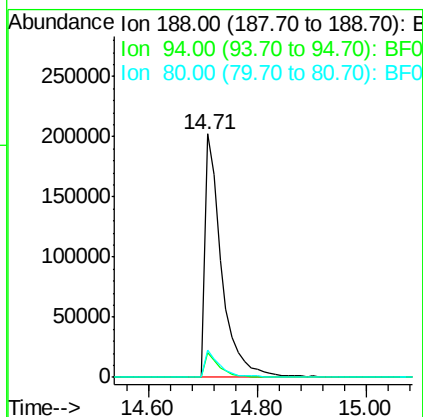
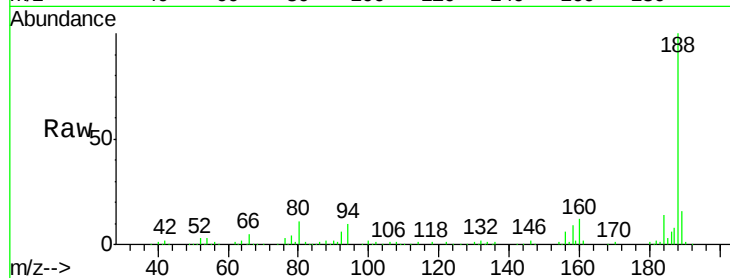




#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 14.71 min Scan# 1148  
 Delta R.T. -0.00 min  
 Lab File: BF087603.D  
 Acq: 1 Jun 2016 3:45

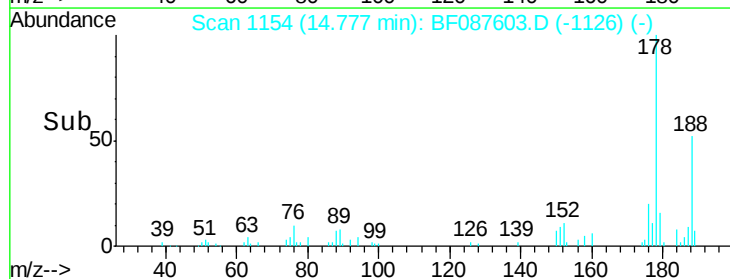
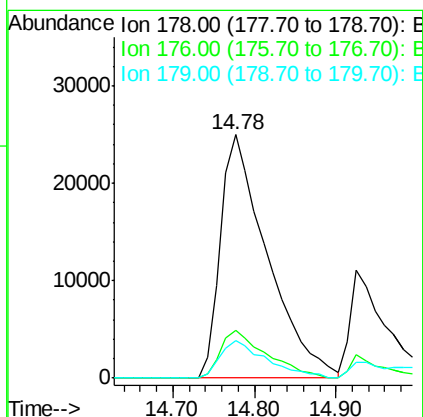
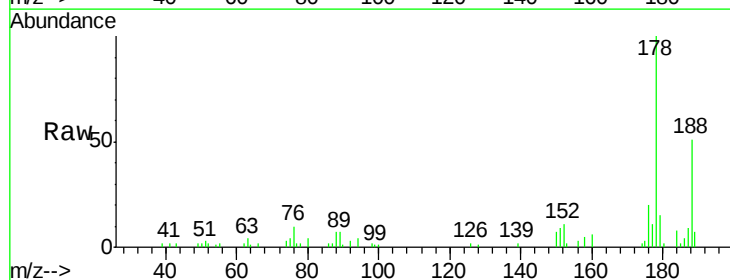
Instrument :  
 BNA\_F  
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 TA-1304-(0-4)DL

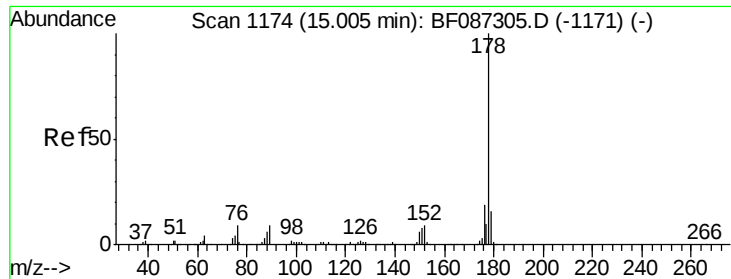
Tgt Ion:188 Resp: 429066  
 Ion Ratio Lower Upper  
 188 100  
 94 10.3 6.8 10.2#  
 80 11.4 7.1 10.7#



#70  
 Phenanthrene  
 Concen: 4.18 ng  
 RT: 14.78 min Scan# 1154  
 Delta R.T. 0.02 min  
 Lab File: BF087603.D  
 Acq: 1 Jun 2016 3:45

Tgt Ion:178 Resp: 99438  
 Ion Ratio Lower Upper  
 178 100  
 176 19.9 16.0 24.0  
 179 15.2 12.6 18.8

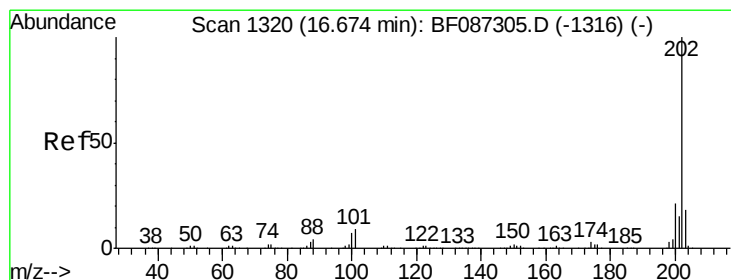
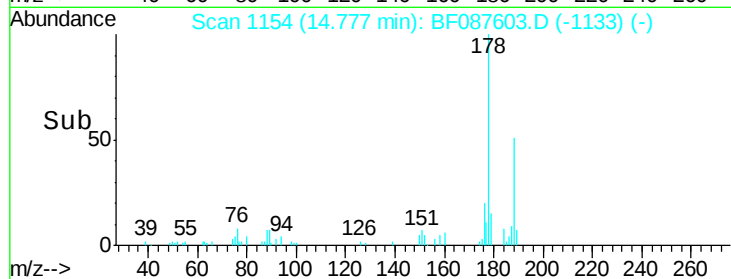
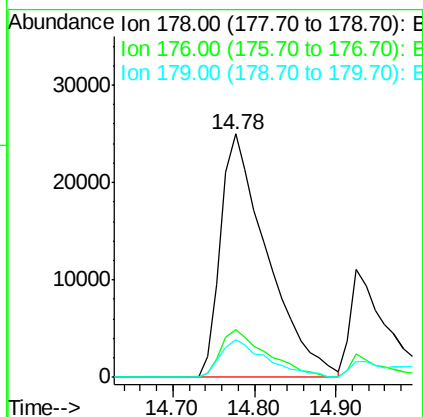
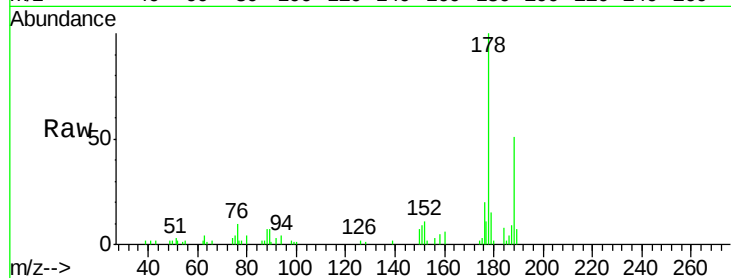




#71  
 Anthracene  
 Concen: 4.14 ng  
 RT: 14.78 min Scan# 1154  
 Delta R.T. -0.06 min  
 Lab File: BF087603.D  
 Acq: 1 Jun 2016 3:45

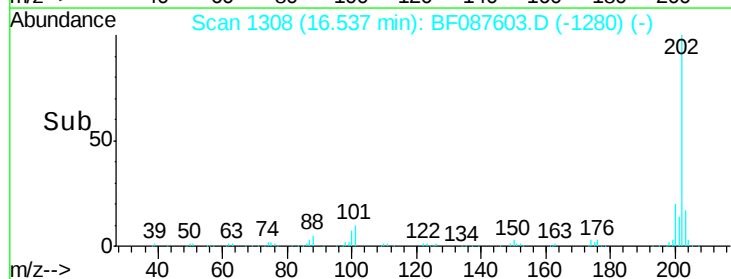
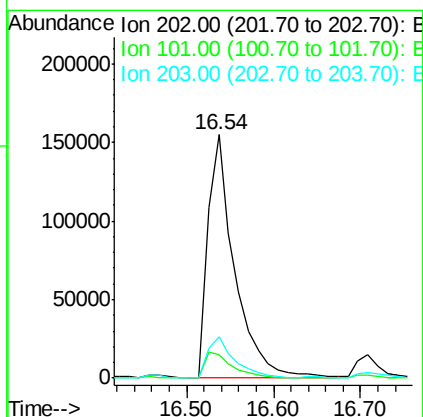
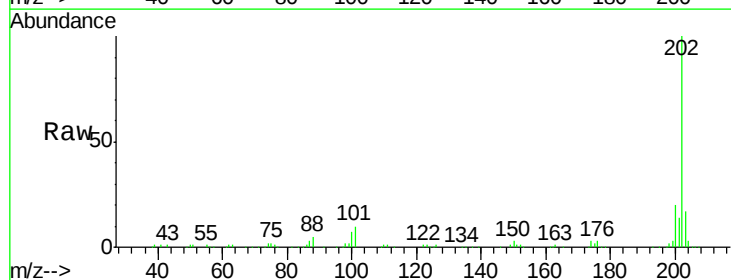
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TA-1304-(0-4)DL

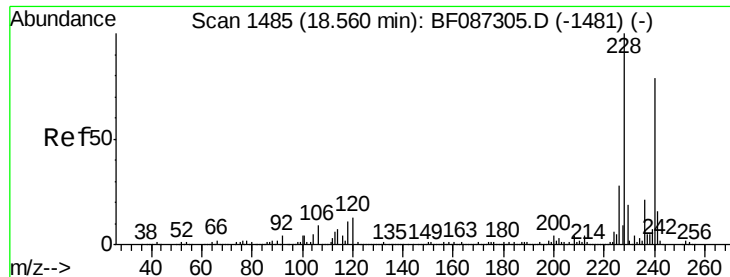
Tgt Ion:178 Resp: 99438  
 Ion Ratio Lower Upper  
 178 100  
 176 19.9 15.6 23.4  
 179 15.2 12.7 19.1



#74  
 Fluoranthene  
 Concen: 13.93 ng  
 RT: 16.54 min Scan# 1308  
 Delta R.T. 0.02 min  
 Lab File: BF087603.D  
 Acq: 1 Jun 2016 3:45

Tgt Ion:202 Resp: 332099  
 Ion Ratio Lower Upper  
 202 100  
 101 9.6 0.0 35.4  
 203 17.0 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.42 min Scan# 1473

Delta R.T. -0.00 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :

BNA\_F

ClientSampleId :

TA-1304-(0-4)DL

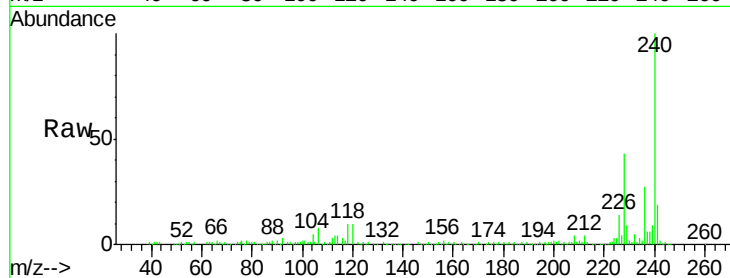
Tgt Ion:240 Resp: 288447

Ion Ratio Lower Upper

240 100

120 10.3 11.2 16.8#

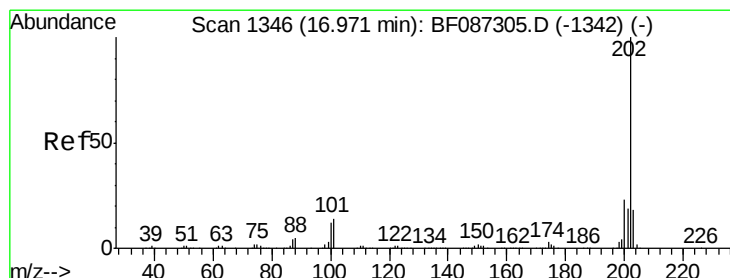
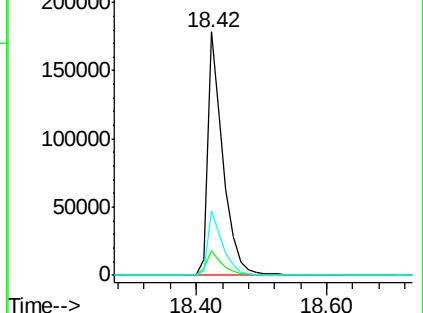
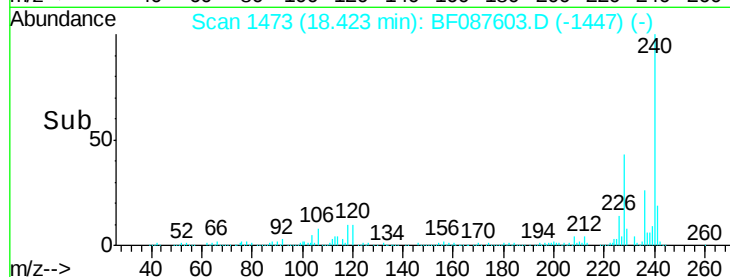
236 26.7 21.2 31.8



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: 15.27 ng

RT: 16.83 min Scan# 1334

Delta R.T. 0.01 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

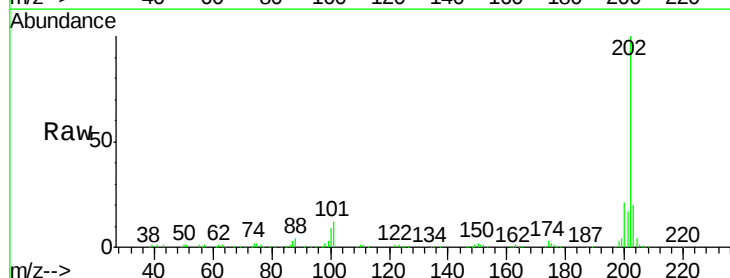
Tgt Ion:202 Resp: 317046

Ion Ratio Lower Upper

202 100

200 21.3 17.7 26.5

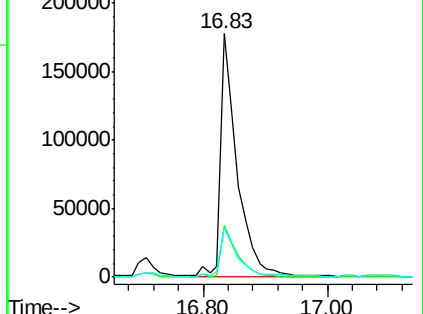
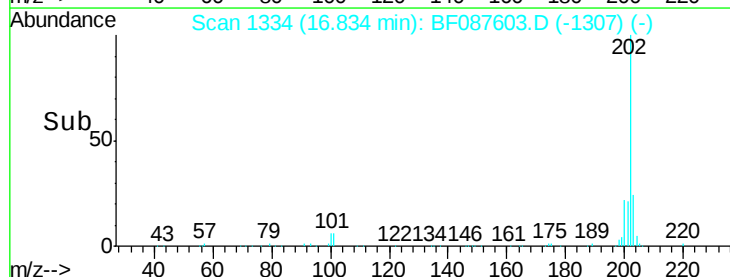
203 19.9 14.2 21.4

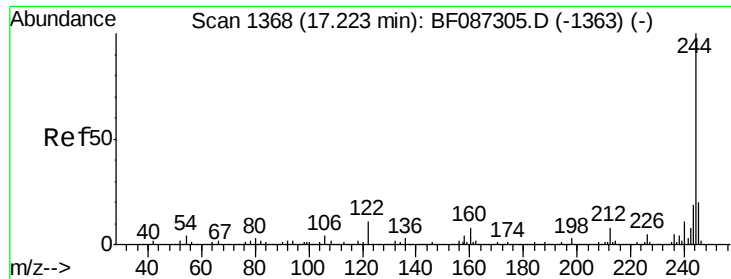


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 6.70 ng

RT: 17.06 min Scan# 1354

Delta R.T. -0.00 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :

BNA\_F

ClientSampleId :

TA-1304-(0-4)DL

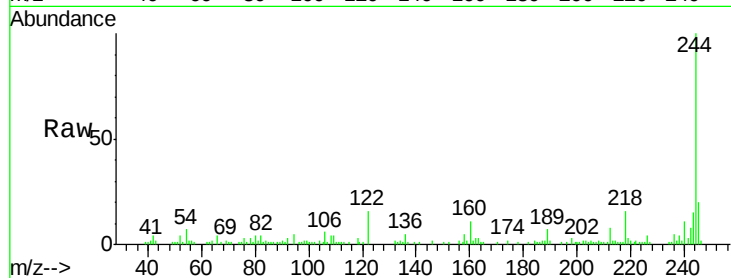
Tgt Ion:244 Resp: 90889

Ion Ratio Lower Upper

244 100

212 8.4 6.2 9.2

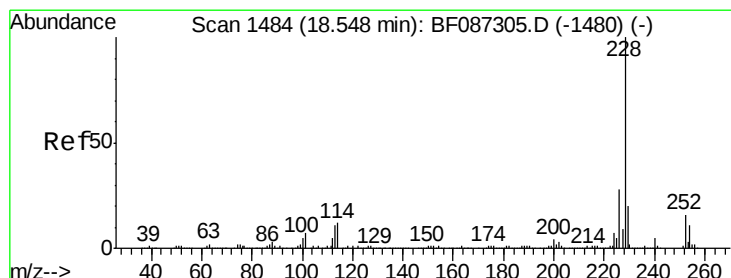
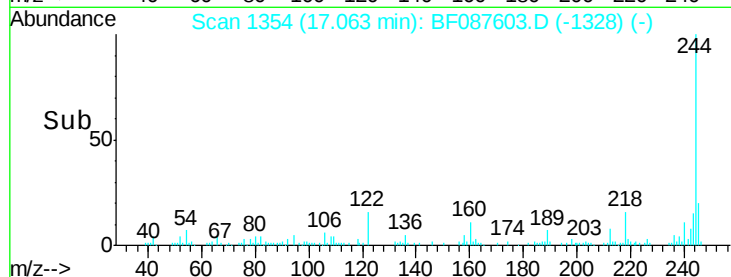
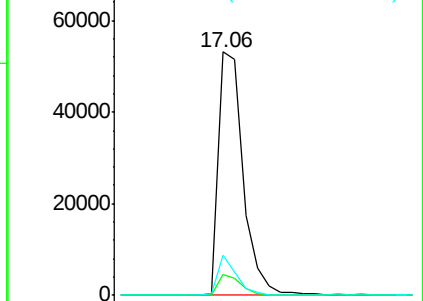
122 16.3 12.0 18.0



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: 10.59 ng

RT: 18.41 min Scan# 1472

Delta R.T. -0.00 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

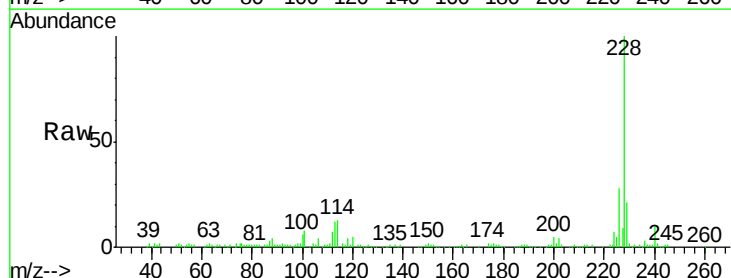
Tgt Ion:228 Resp: 173791

Ion Ratio Lower Upper

228 100

226 28.0 22.5 33.7

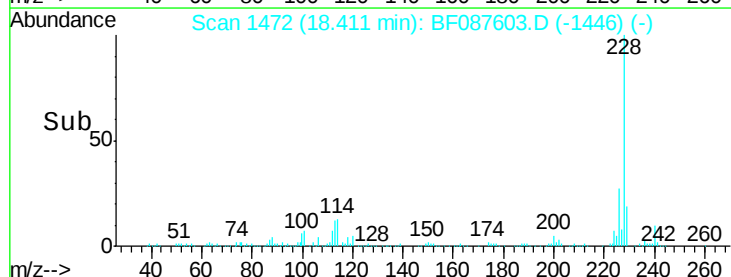
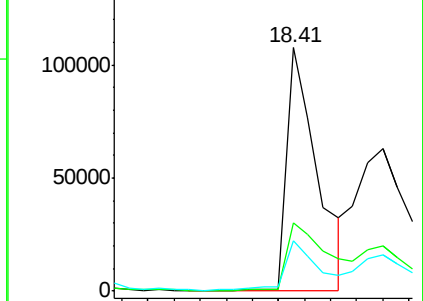
229 20.6 16.6 25.0

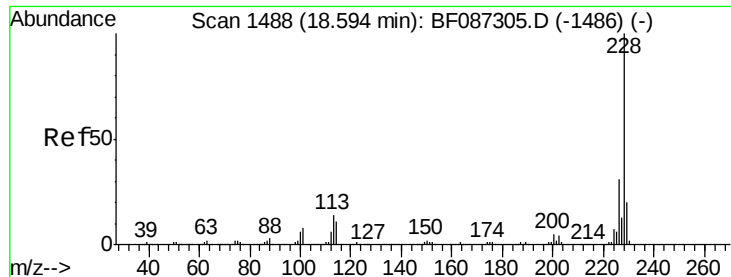


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 10.67 ng

RT: 18.41 min Scan# 1472

Delta R.T. -0.05 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :

BNA\_F

ClientSampleId :

TA-1304-(0-4)DL

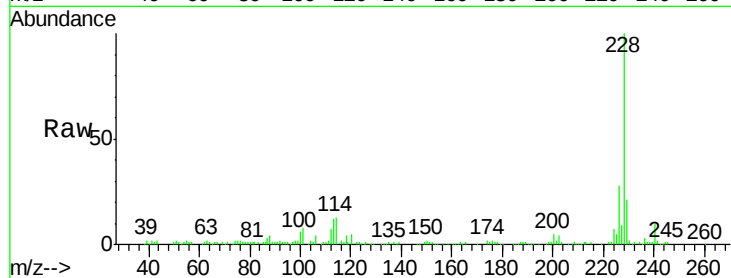
Tgt Ion:228 Resp: 173791

Ion Ratio Lower Upper

228 100

226 28.0 24.4 36.6

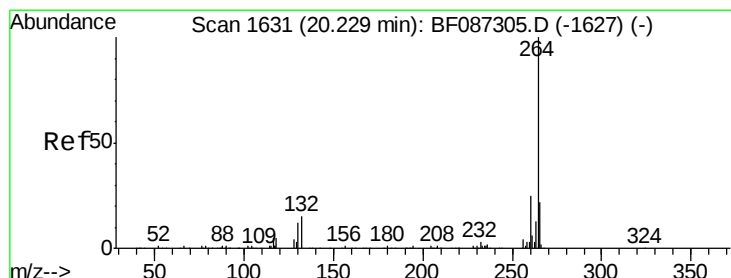
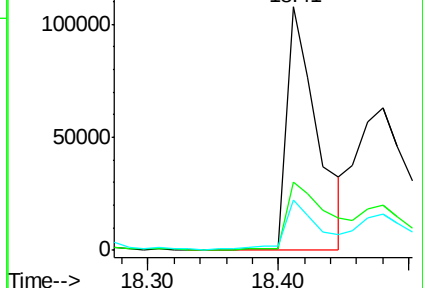
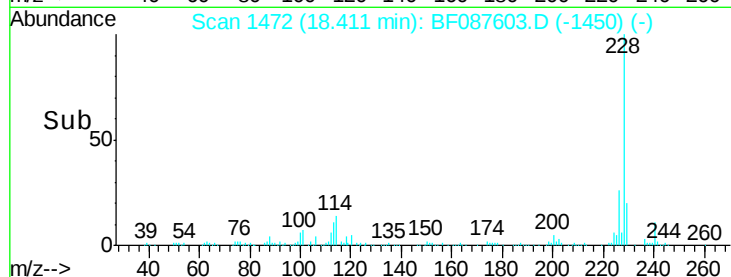
229 20.6 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 20.11 min Scan# 1621

Delta R.T. -0.00 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

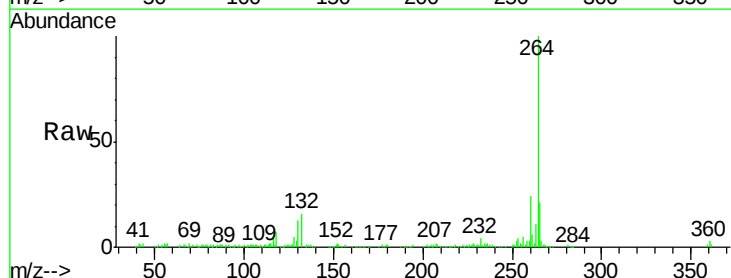
Tgt Ion:264 Resp: 226386

Ion Ratio Lower Upper

264 100

260 23.9 19.5 29.3

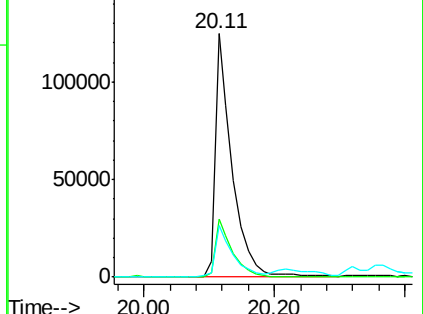
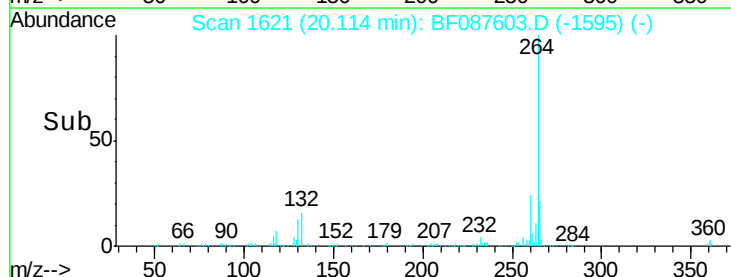
265 21.3 17.3 25.9

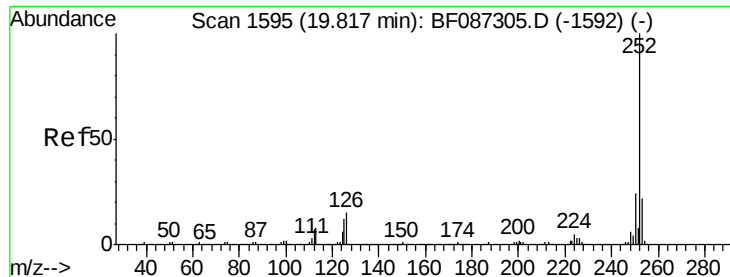


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 3.41 ng

RT: 19.85 min Scan# 1598

Delta R.T. 0.16 min

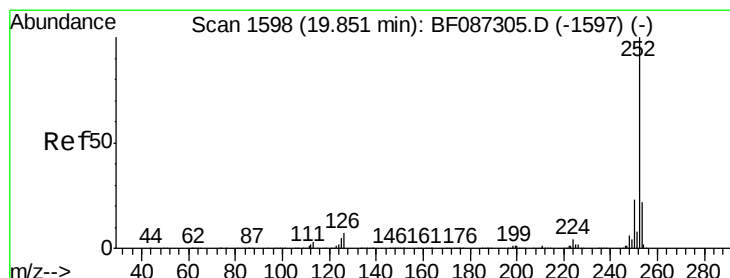
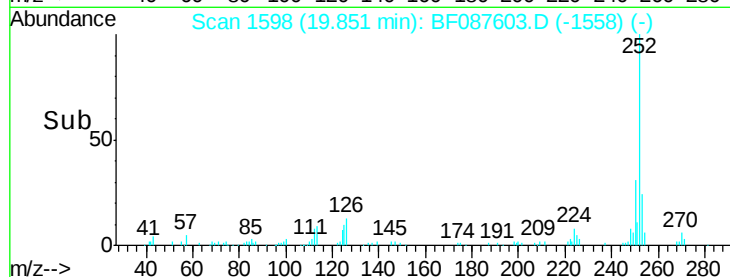
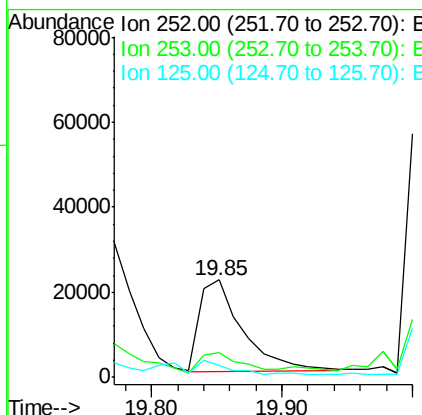
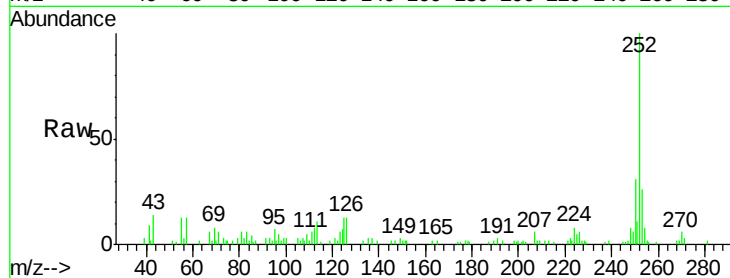
Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :  
BNA\_F  
ClientSampleId :  
TA-1304-(0-4)DL

Tgt Ion: 252 Resp: 49119

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.6  | 17.8  | 26.6  |
| 125 | 12.7  | 11.4  | 17.0  |



#88

Benzo(k)fluoranthene

Concen: 25.56 ng

RT: 19.71 min Scan# 1586

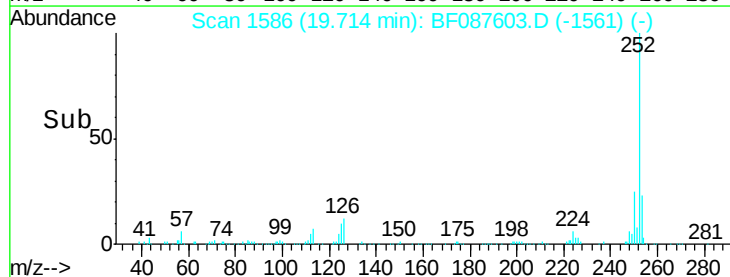
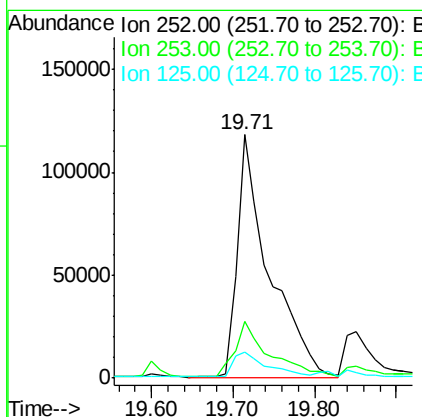
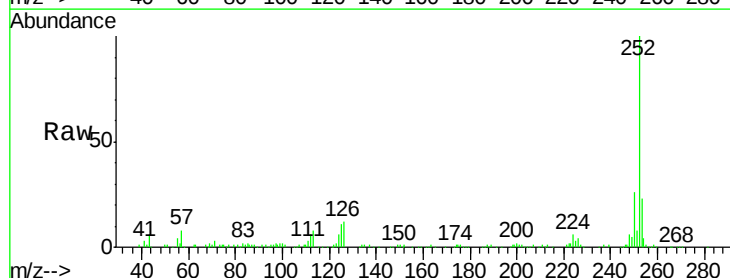
Delta R.T. -0.01 min

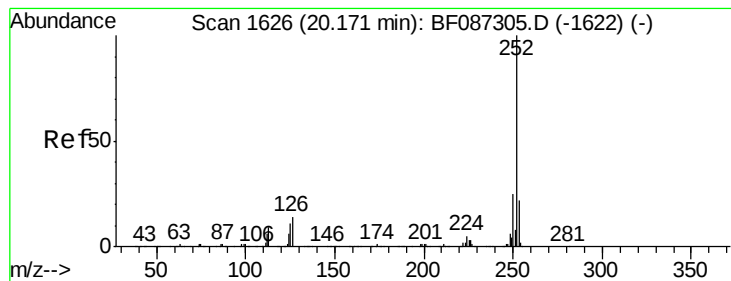
Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Tgt Ion: 252 Resp: 317266

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.1  | 17.8  | 26.6  |
| 125 | 10.7  | 9.1   | 13.7  |





#89

Benzo(a)pyrene

Concen: 12.32 ng

RT: 20.07 min Scan# 1617

Delta R.T. 0.02 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Instrument :

BNA\_F

ClientSampleId :

TA-1304-(0-4)DL

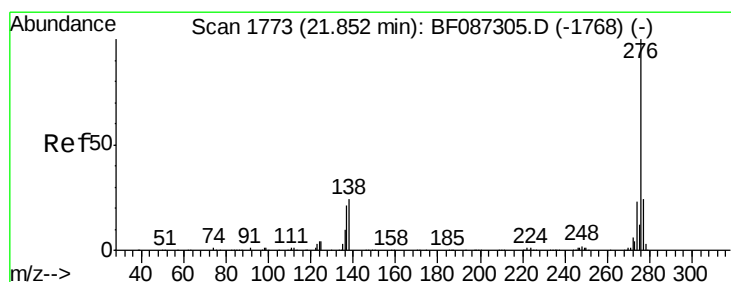
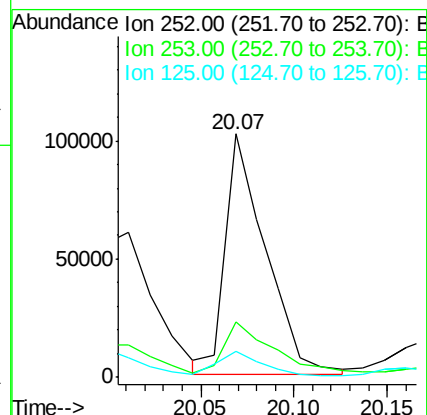
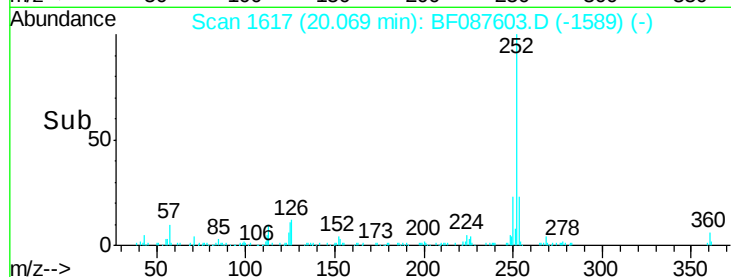
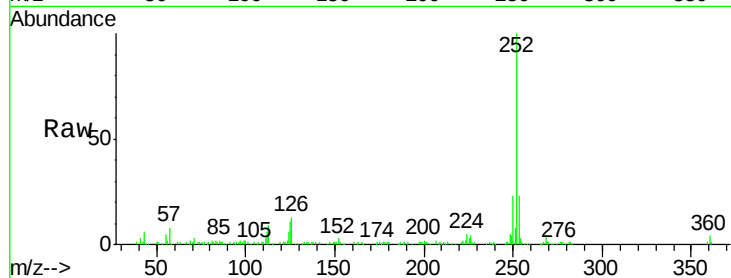
Tgt Ion:252 Resp: 153695

Ion Ratio Lower Upper

252 100

253 23.0 17.2 25.8

125 10.9 9.0 13.6



#91

Benzo(g,h,i)perylene

Concen: 10.82 ng

RT: 21.74 min Scan# 1763

Delta R.T. 0.06 min

Lab File: BF087603.D

Acq: 1 Jun 2016 3:45

Tgt Ion:276 Resp: 113544

Ion Ratio Lower Upper

276 100

277 25.4 19.6 29.4

138 23.3 23.6 35.4#

