

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052016\  
 Data File : BF087265.D  
 Acq On : 21 May 2016 11:33  
 Operator : UM/SJ  
 Sample : H3154-02  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SED-01-0-2

Quant Time: May 23 00:58:35 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF051716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 17 16:55:01 2016  
 Response via : Initial Calibration

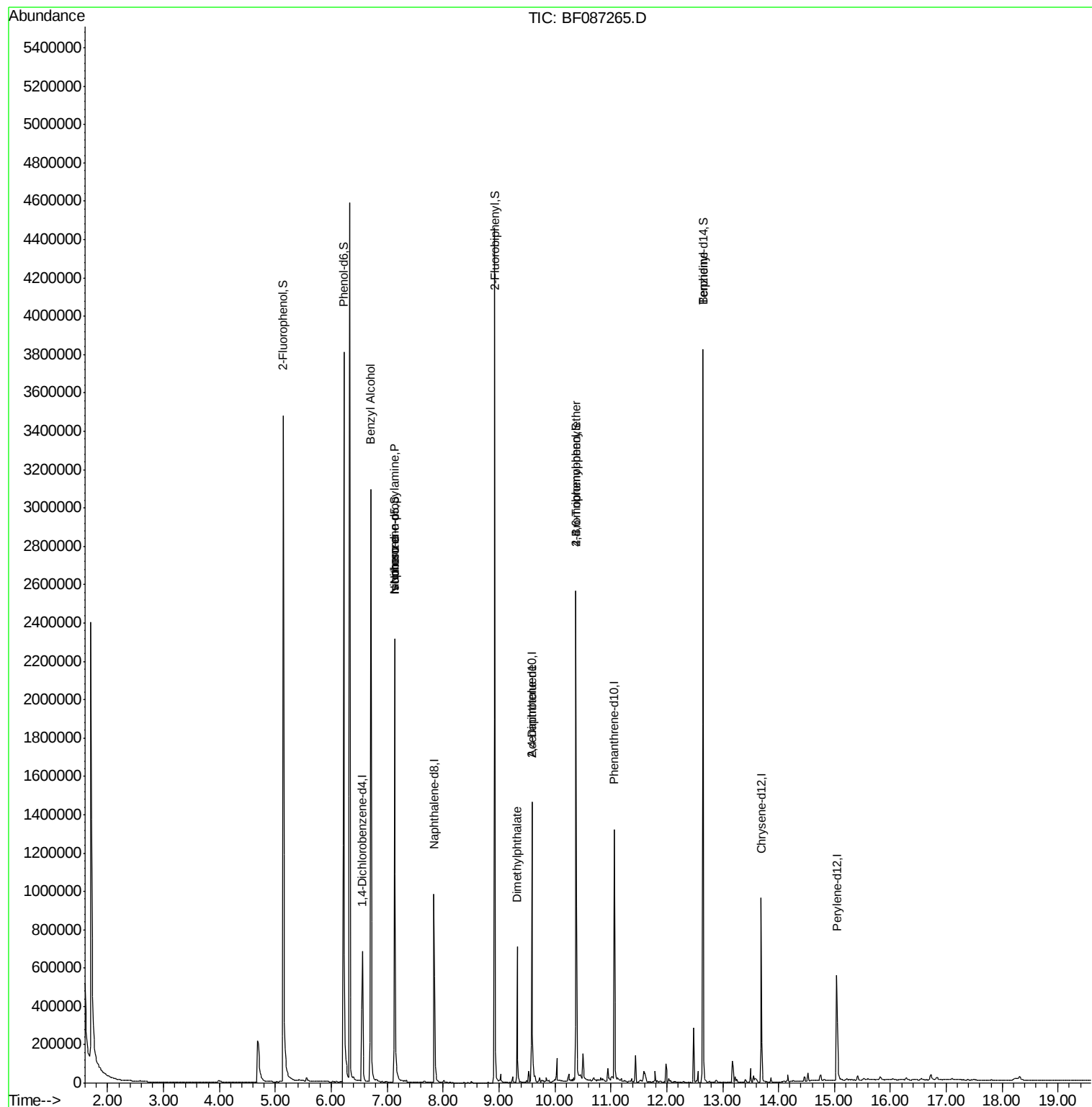
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.56  | 152  | 123727   | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8             | 7.84  | 136  | 538074   | 20.00  | ng    | -0.06    |
| 38) Acenaphthene-d10           | 9.59  | 164  | 266319   | 20.00  | ng    | -0.06    |
| 63) Phenanthrene-d10           | 11.06 | 188  | 479786   | 20.00  | ng    | -0.06    |
| 75) Chrysene-d12               | 13.69 | 240  | 339999   | 20.00  | ng    | -0.07    |
| 86) Perylene-d12               | 15.04 | 264  | 248300   | 20.00  | ng    | -0.07    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.14  | 112  | 968601   | 131.58 | ng    | -0.06    |
| 7) Phenol-d6                   | 6.23  | 99   | 1291516  | 130.82 | ng    | -0.06    |
| 23) Nitrobenzene-d5            | 7.13  | 82   | 854789   | 79.17  | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol       | 10.38 | 330  | 303048   | 102.97 | ng    | -0.07    |
| 44) 2-Fluorobiphenyl           | 8.92  | 172  | 1433156  | 89.12  | ng    | -0.06    |
| 78) Terphenyl-d14              | 12.65 | 244  | 1276964  | 84.96  | ng    | -0.06    |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 6.71  | 79   | 14711    | 2.00   | ng    | # 45     |
| 19) n-Nitroso-di-n-propylamine | 7.13  | 70   | 119663   | 15.94  | ng    | # 72     |
| 25) Isophorone                 | 7.13  | 82   | 815055   | 41.24  | ng    | # 68     |
| 49) Dimethylphthalate          | 9.32  | 163  | 253241   | 12.47  | ng    | 100      |
| 56) 2,4-Dinitrotoluene         | 9.59  | 165  | 33540    | 5.94   | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 10.38 | 248  | 19511    | 3.95   | ng    | # 1      |
| 76) Benzydine                  | 12.65 | 184  | 19412    | 2.47   | ng    | # 96     |

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

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF051716.M  
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QLast Update : Tue May 17 16:55:01 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.56 min Scan# 435

Delta R.T. -0.05 min

Lab File: BF087265.D

Acq: 21 May 2016 11:33

Instrument :

BNA\_F

ClientSampleId :

SED-01-0-2

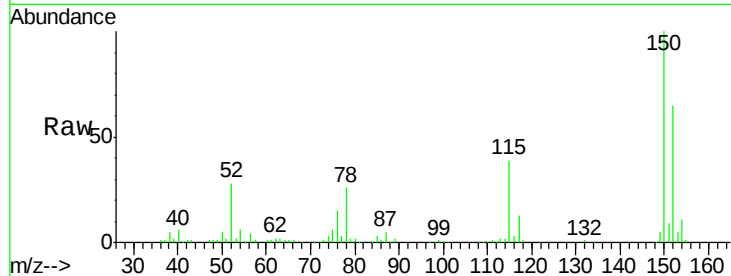
Tgt Ion:152 Resp: 123727

Ion Ratio Lower Upper

152 100

150 154.6 125.8 188.6

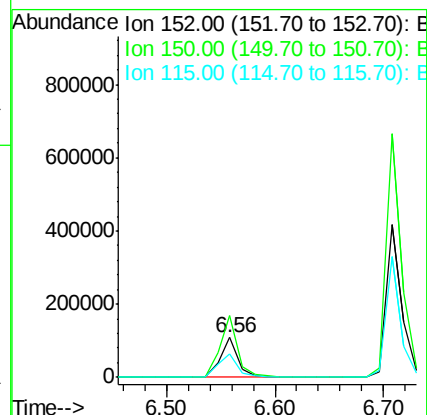
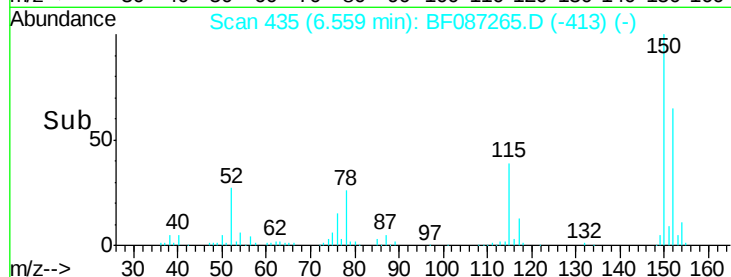
115 60.3 51.5 77.3



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: 131.58 ng

RT: 5.14 min Scan# 311

Delta R.T. -0.06 min

Lab File: BF087265.D

Acq: 21 May 2016 11:33

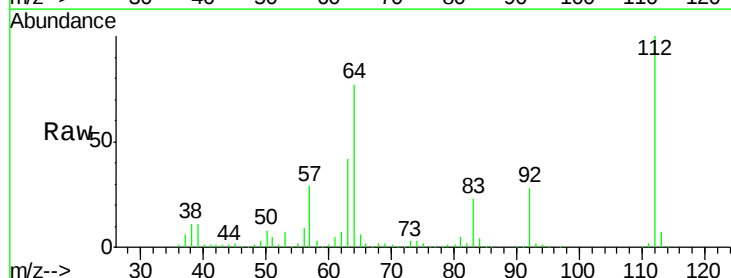
Tgt Ion:112 Resp: 968601

Ion Ratio Lower Upper

112 100

64 76.9 52.1 78.1

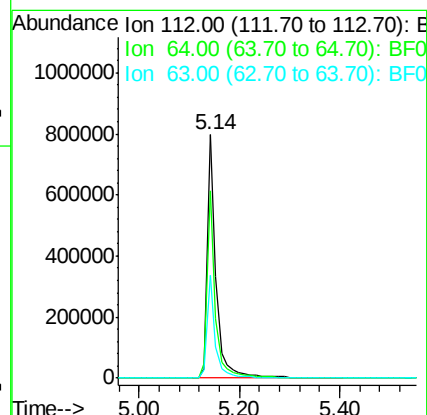
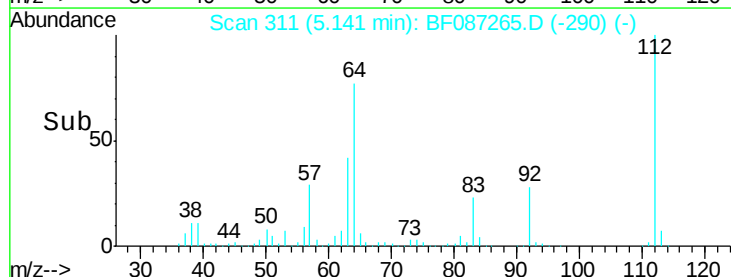
63 42.1 25.7 38.5#



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: 130.82 ng

RT: 6.23 min Scan# 406

Delta R.T. -0.06 min

Lab File: BF087265.D

Acq: 21 May 2016 11:33

Instrument :

BNA\_F

ClientSampleId :

SED-01-0-2

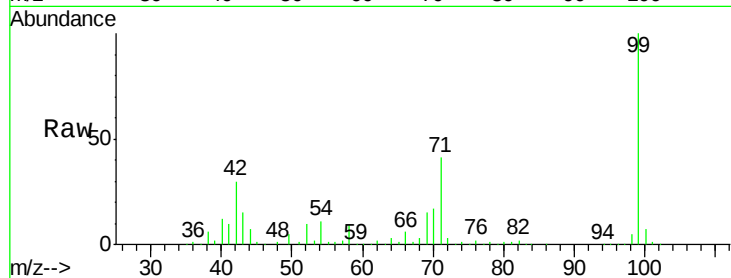
Tgt Ion: 99 Resp: 1291516

Ion Ratio Lower Upper

99 100

42 30.2 13.6 20.4#

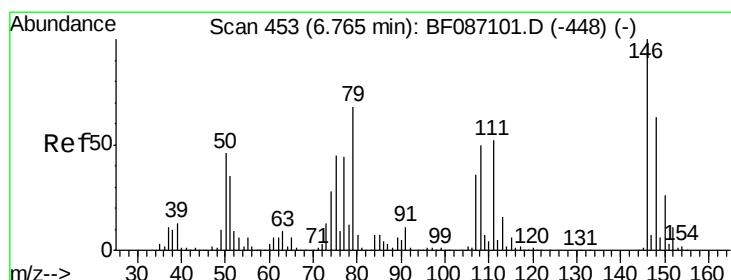
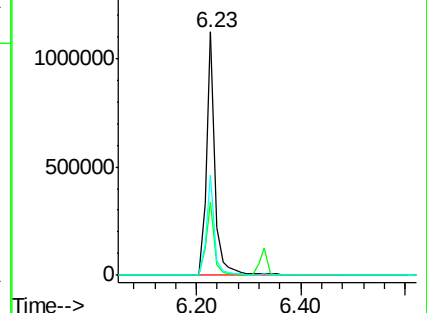
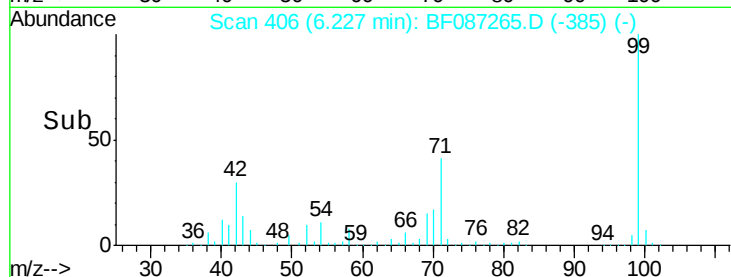
71 41.1 24.6 36.8#



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



#15

Benzyl Alcohol

Concen: 2.00 ng

RT: 6.71 min Scan# 448

Delta R.T. -0.07 min

Lab File: BF087265.D

Acq: 21 May 2016 11:33

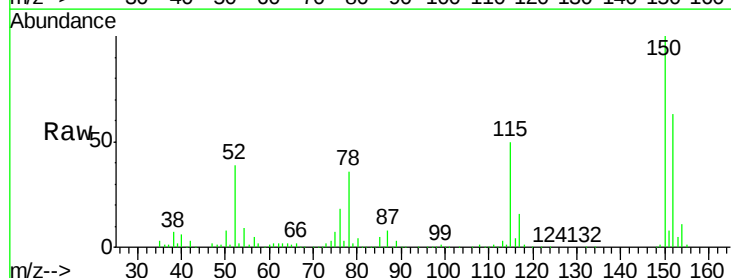
Tgt Ion: 79 Resp: 14711

Ion Ratio Lower Upper

79 100

108 29.8 68.4 102.6#

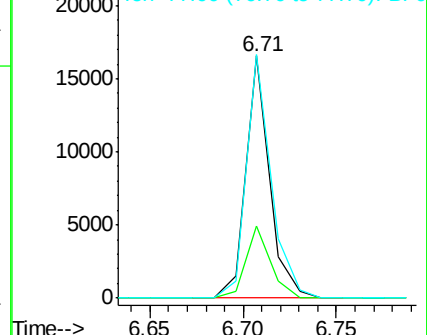
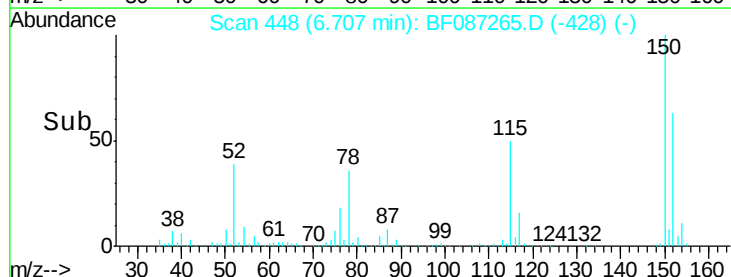
77 100.6 50.6 76.0#

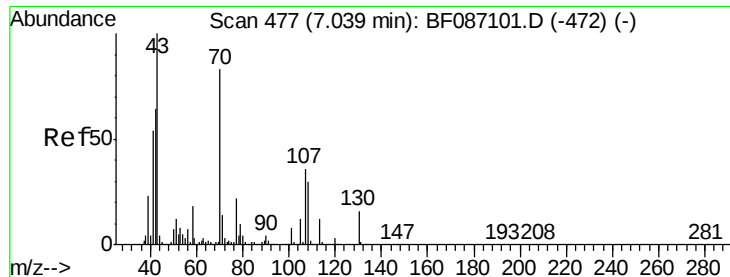


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

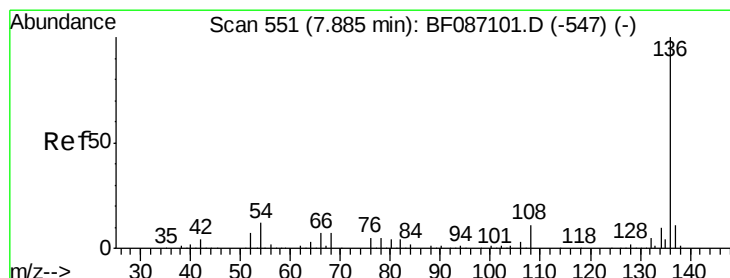
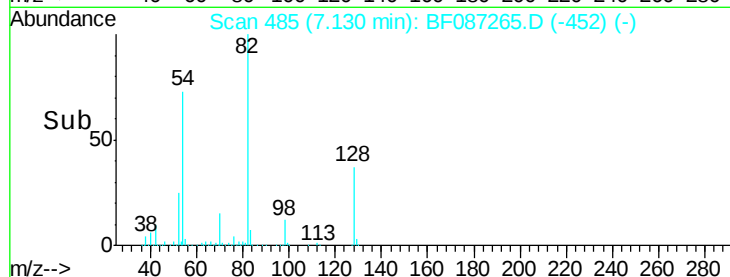
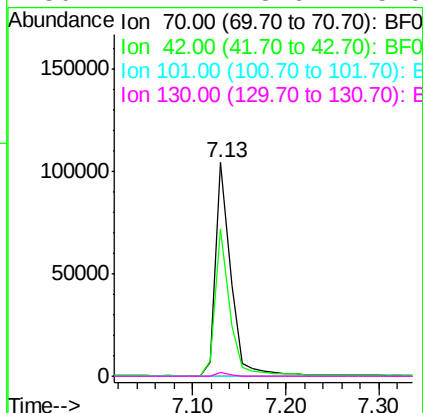
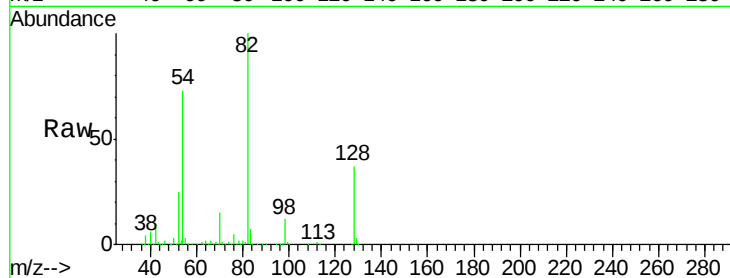




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.94 ng  
RT: 7.13 min Scan# 485  
Delta R.T. 0.08 min  
Lab File: BF087265.D  
Acq: 21 May 2016 11:33

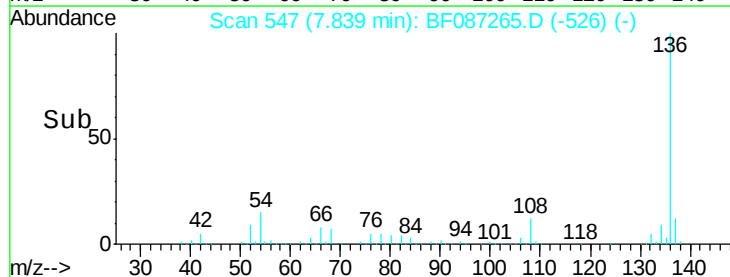
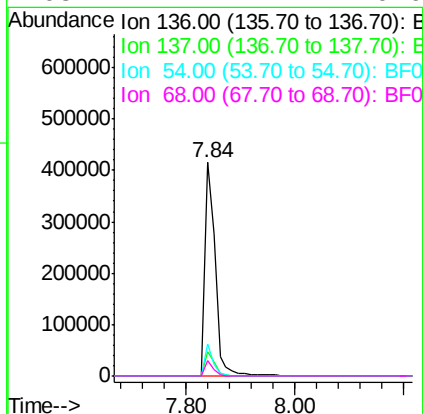
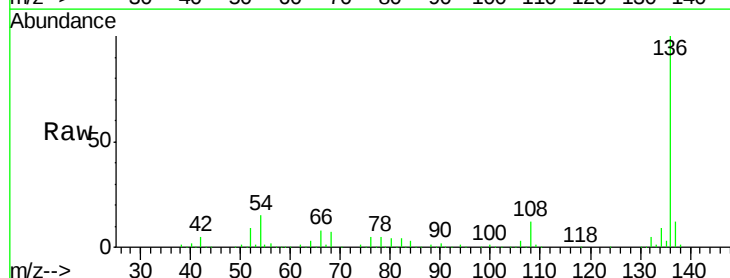
Instrument :  
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ClientSampleId :  
SED-01-0-2

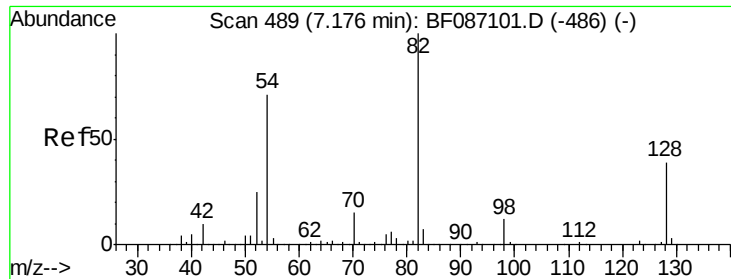
Tgt Ion: 70 Resp: 119663  
Ion Ratio Lower Upper  
70 100  
42 68.8 43.1 64.7#  
101 0.0 8.1 12.1#  
130 1.7 18.6 28.0#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.84 min Scan# 547  
Delta R.T. -0.06 min  
Lab File: BF087265.D  
Acq: 21 May 2016 11:33

Tgt Ion: 136 Resp: 538074  
Ion Ratio Lower Upper  
136 100  
137 11.6 8.8 13.2  
54 15.1 5.0 7.4#  
68 7.4 4.4 6.6#

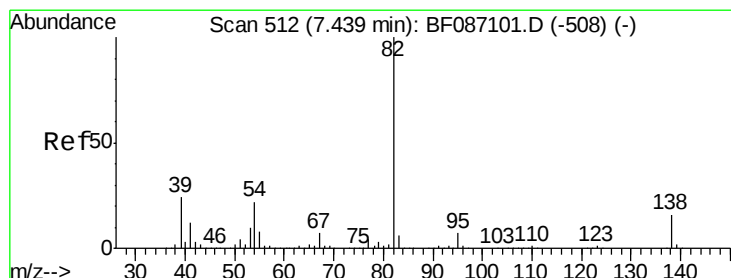
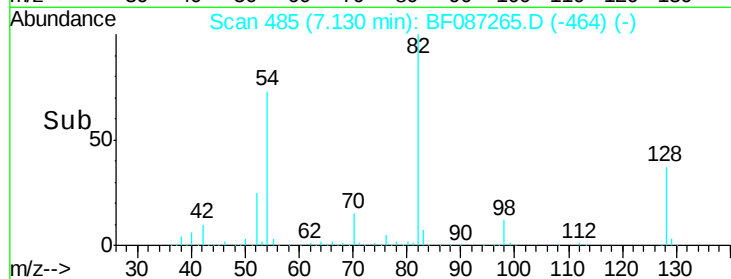
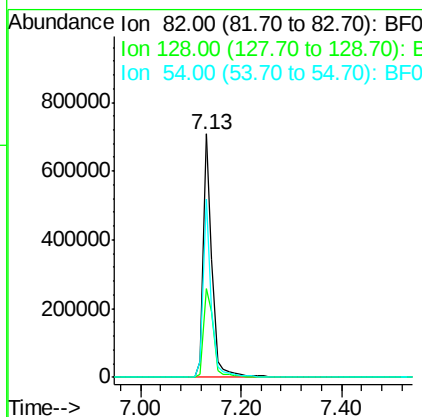
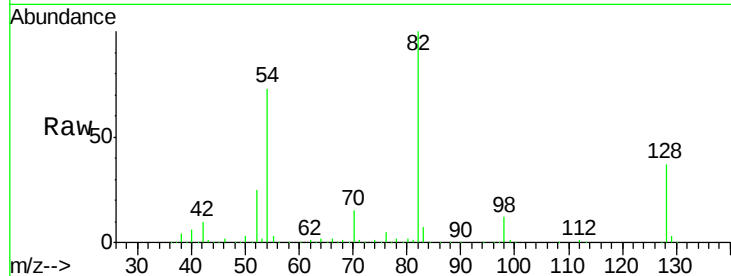




#23  
 Nitrobenzene-d5  
 Concen: 79.17 ng  
 RT: 7.13 min Scan# 485  
 Delta R.T. -0.06 min  
 Lab File: BF087265.D  
 Acq: 21 May 2016 11:33

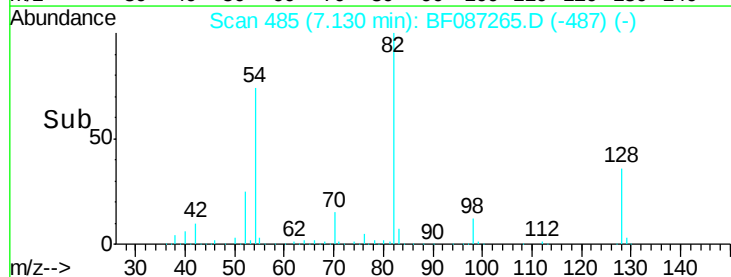
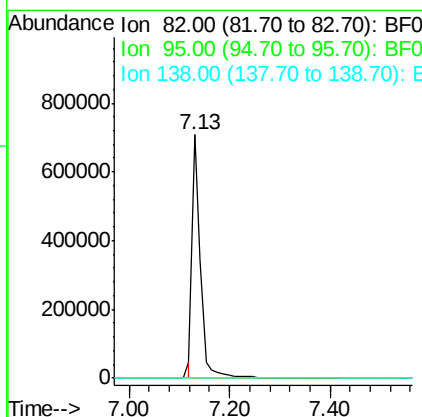
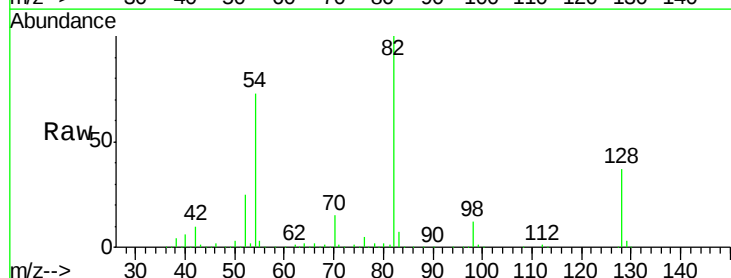
Instrument :  
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 ClientSampleId :  
 SED-01-0-2

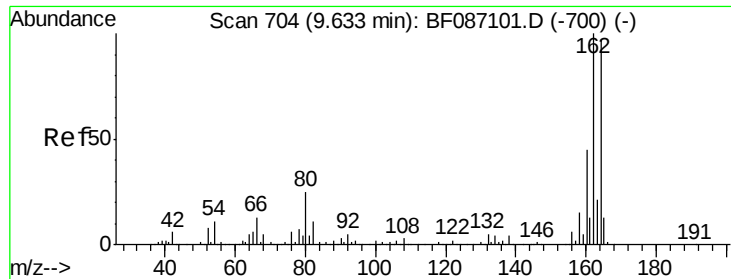
Tgt Ion: 82 Resp: 854789  
 Ion Ratio Lower Upper  
 82 100  
 128 36.5 40.6 61.0#  
 54 73.2 38.1 57.1#



#25  
 Isophorone  
 Concen: 41.24 ng  
 RT: 7.13 min Scan# 485  
 Delta R.T. -0.32 min  
 Lab File: BF087265.D  
 Acq: 21 May 2016 11:33

Tgt Ion: 82 Resp: 815055  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.1 7.7#  
 138 0.0 12.4 18.6#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.06 min

Lab File: BF087265.D

Acq: 21 May 2016 11:33

Instrument :

BNA\_F

ClientSampleId :

SED-01-0-2

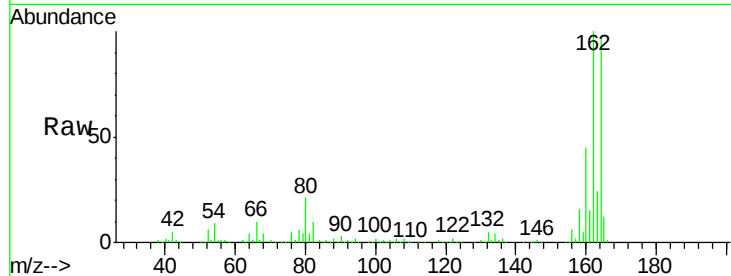
Tgt Ion:164 Resp: 266319

Ion Ratio Lower Upper

164 100

162 103.2 82.8 124.2

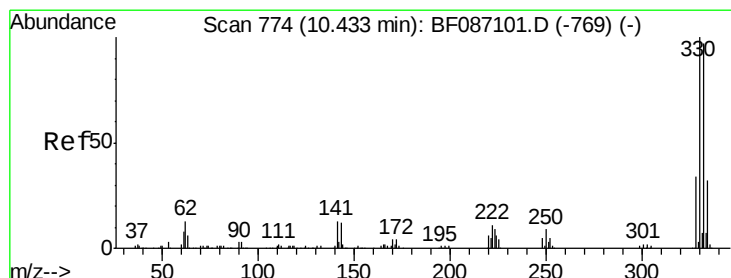
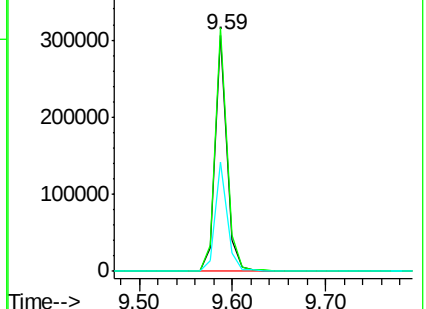
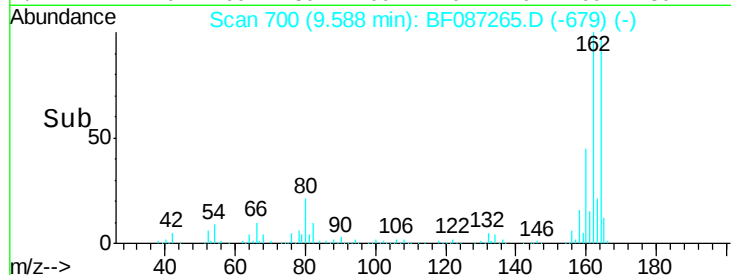
160 46.5 36.9 55.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 102.97 ng

RT: 10.38 min Scan# 769

Delta R.T. -0.07 min

Lab File: BF087265.D

Acq: 21 May 2016 11:33

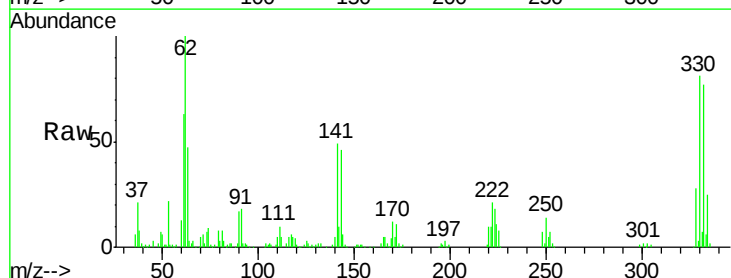
Tgt Ion:330 Resp: 303048

Ion Ratio Lower Upper

330 100

332 96.9 79.0 118.4

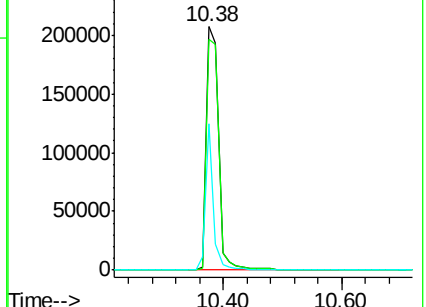
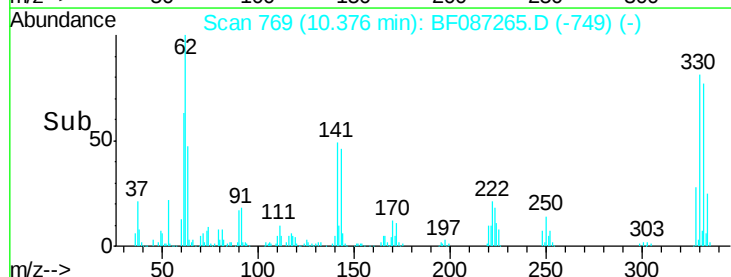
141 38.7 31.2 46.8

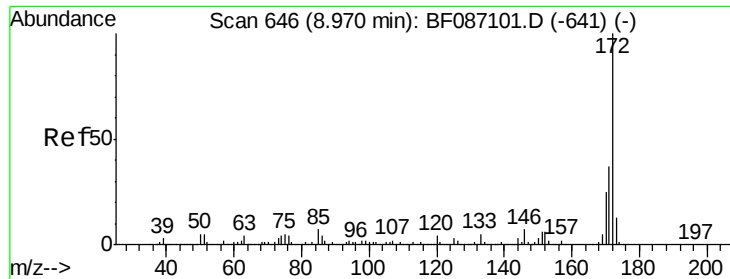


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 89.12 ng

RT: 8.92 min Scan# 642

Delta R.T. -0.06 min

Lab File: BF087265.D

Acq: 21 May 2016 11:33

Instrument :

BNA\_F

ClientSampleId :

SED-01-0-2

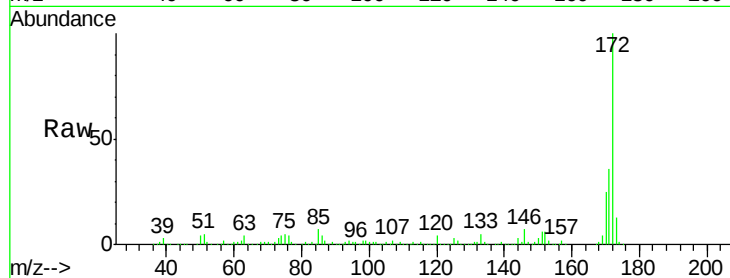
Tgt Ion:172 Resp: 1433156

Ion Ratio Lower Upper

172 100

171 36.4 29.0 43.6

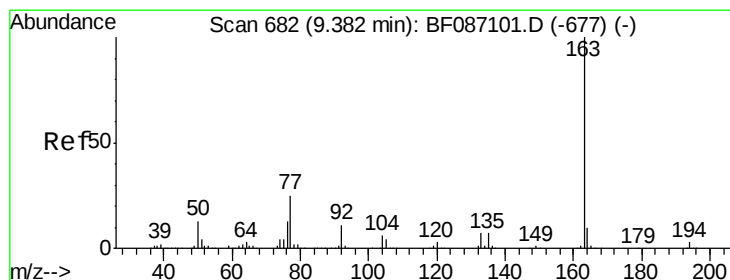
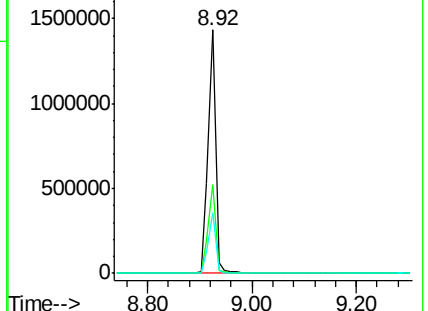
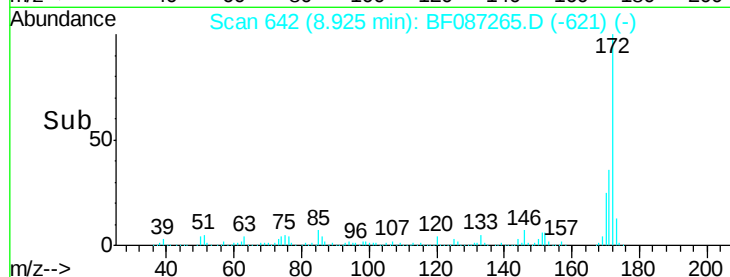
170 24.8 19.8 29.8



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: 12.47 ng

RT: 9.32 min Scan# 677

Delta R.T. -0.07 min

Lab File: BF087265.D

Acq: 21 May 2016 11:33

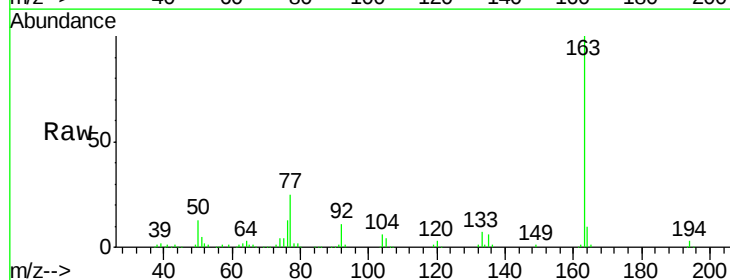
Tgt Ion:163 Resp: 253241

Ion Ratio Lower Upper

163 100

194 3.1 2.6 4.0

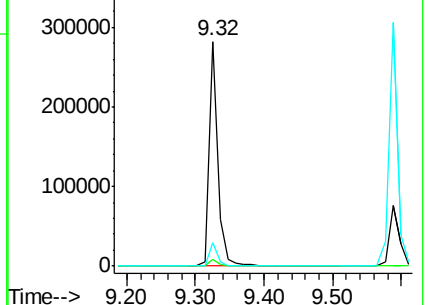
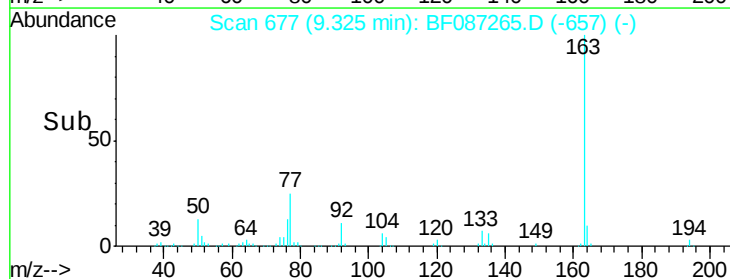
164 10.3 8.2 12.4

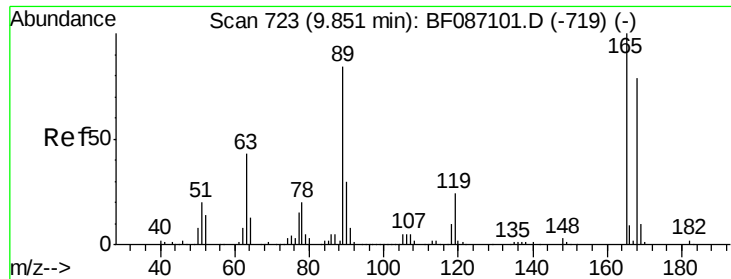


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

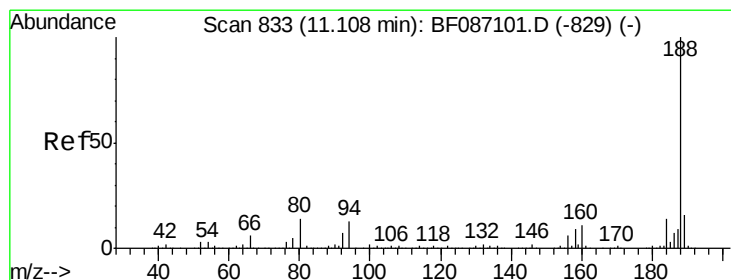
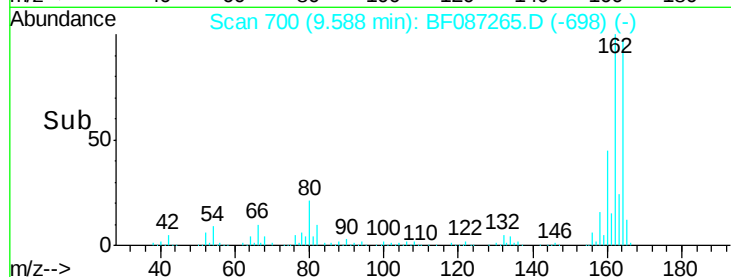
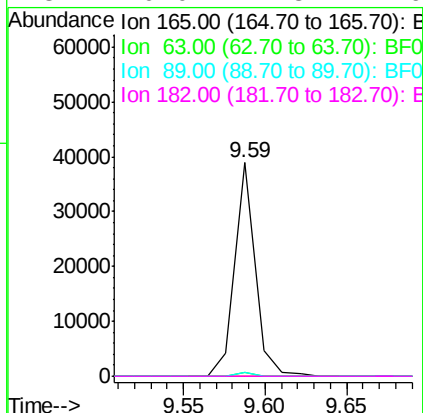
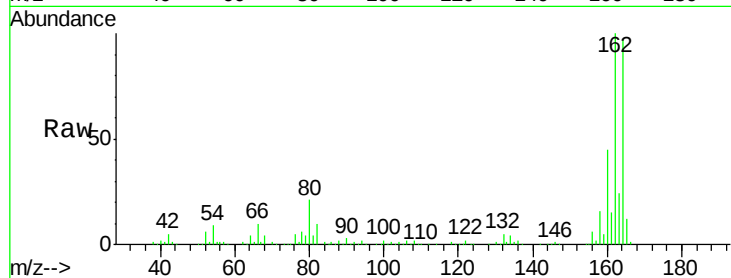




#56  
 2,4-Dinitrotoluene  
 Concen: 5.94 ng  
 RT: 9.59 min Scan# 700  
 Delta R.T. -0.27 min  
 Lab File: BF087265.D  
 Acq: 21 May 2016 11:33

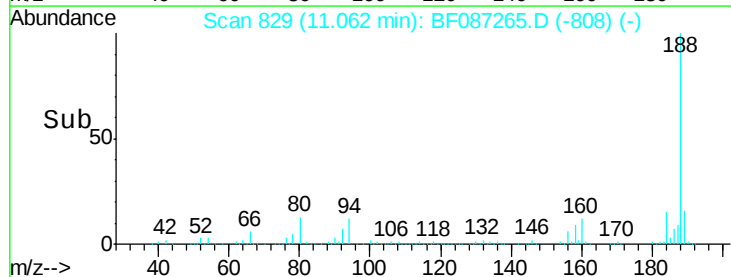
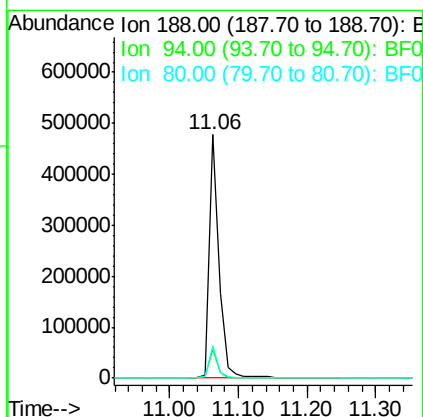
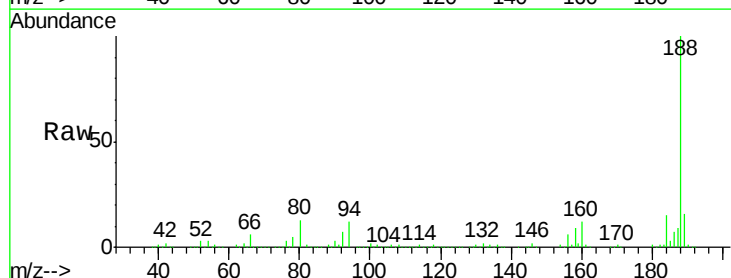
Instrument :  
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 SED-01-0-2

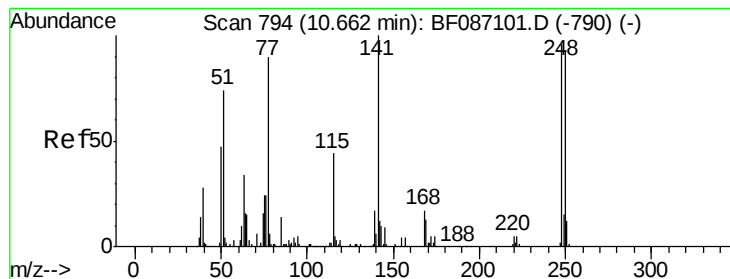
Tgt Ion:165 Resp: 33540  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 44.3 66.5#  
 89 2.0 70.0 105.0#  
 182 0.0 1.8 2.6#



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.06 min Scan# 829  
 Delta R.T. -0.06 min  
 Lab File: BF087265.D  
 Acq: 21 May 2016 11:33

Tgt Ion:188 Resp: 479786  
 Ion Ratio Lower Upper  
 188 100  
 94 11.6 6.8 10.2#  
 80 13.4 7.1 10.7#





#66

4-Bromophenyl-phenylether

Concen: 3.95 ng

RT: 10.38 min Scan# 769

Delta R.T. -0.30 min

Lab File: BF087265.D

Acq: 21 May 2016 11:33

Instrument :

BNA\_F

ClientSampleId :

SED-01-0-2

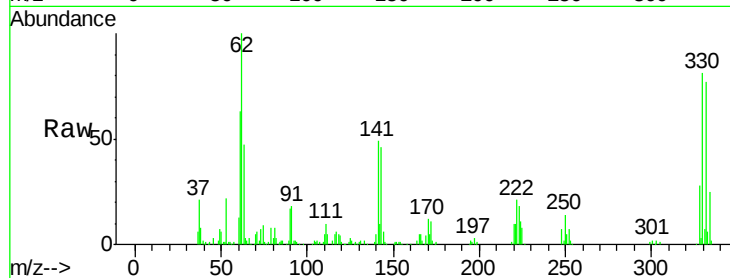
Tgt Ion:248 Resp: 19511

Ion Ratio Lower Upper

248 100

250 193.6 78.6 117.8#

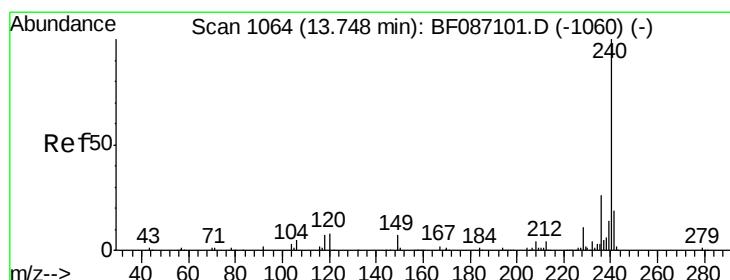
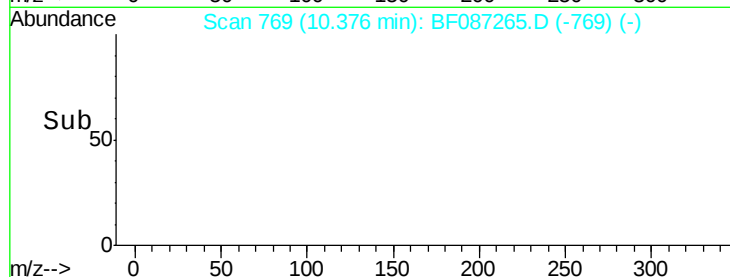
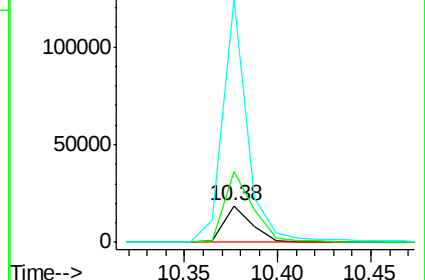
141 670.4 76.0 114.0#



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: 13.69 min Scan# 1059

Delta R.T. -0.07 min

Lab File: BF087265.D

Acq: 21 May 2016 11:33

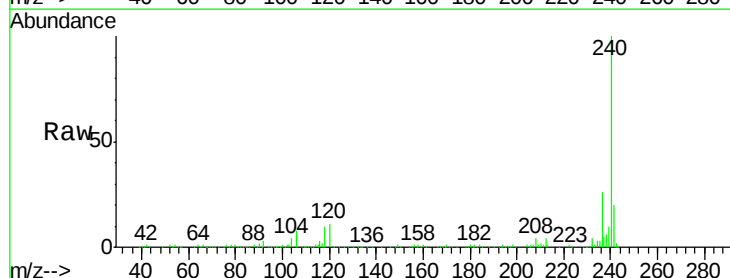
Tgt Ion:240 Resp: 339999

Ion Ratio Lower Upper

240 100

120 10.8 11.2 16.8#

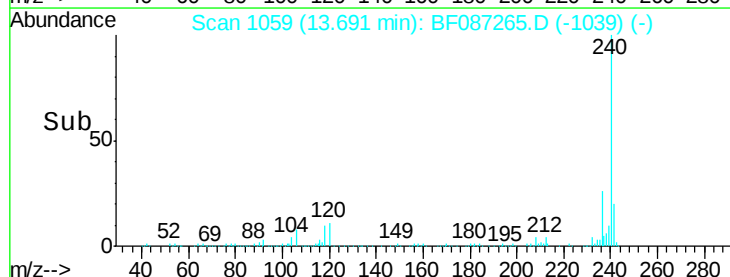
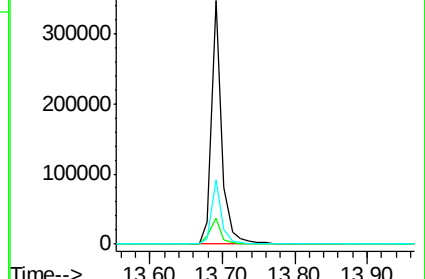
236 26.5 21.2 31.8

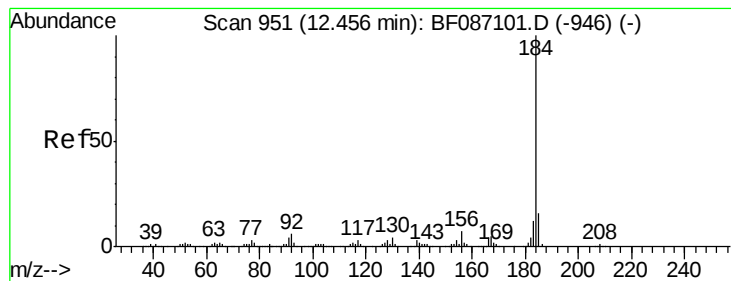


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 2.47 ng

RT: 12.65 min Scan# 968

Delta R.T. 0.18 min

Lab File: BF087265.D

Acq: 21 May 2016 11:33

Instrument :

BNA\_F

ClientSampleId :

SED-01-0-2

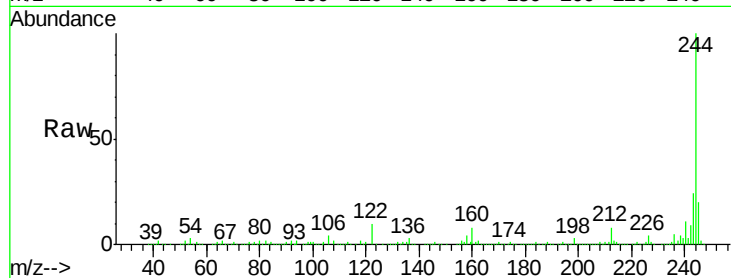
Tgt Ion:184 Resp: 19412

Ion Ratio Lower Upper

184 100

185 17.0 13.6 20.4

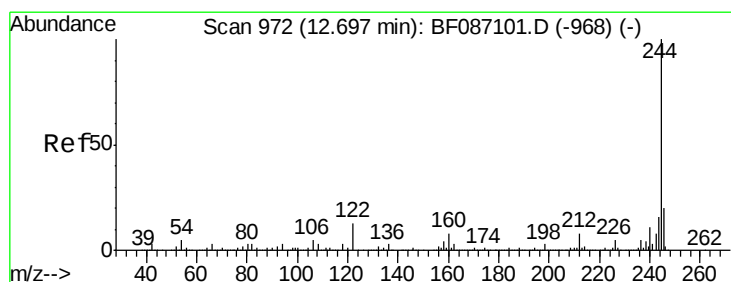
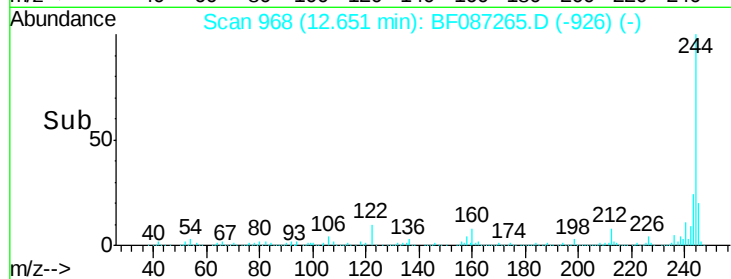
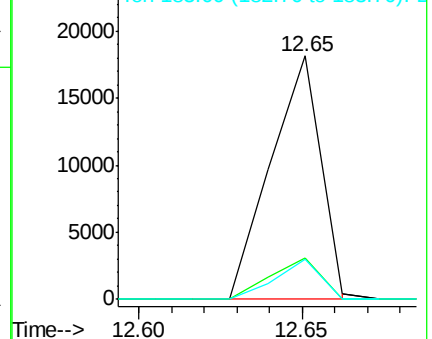
183 16.3 9.8 14.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 84.96 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.06 min

Lab File: BF087265.D

Acq: 21 May 2016 11:33

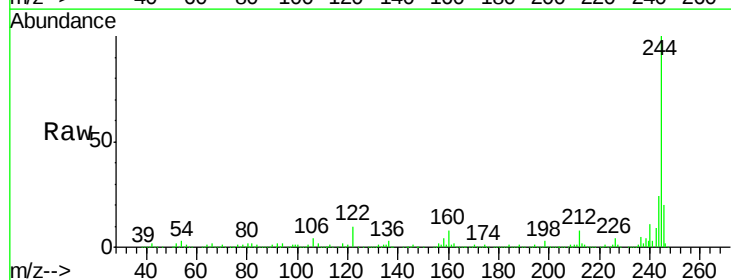
Tgt Ion:244 Resp: 1276964

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

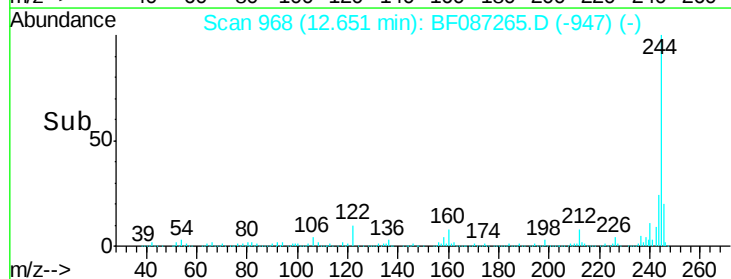
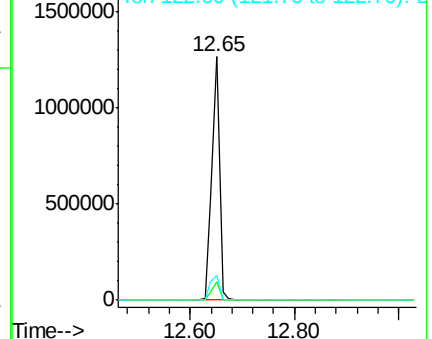
122 10.0 12.0 18.0#

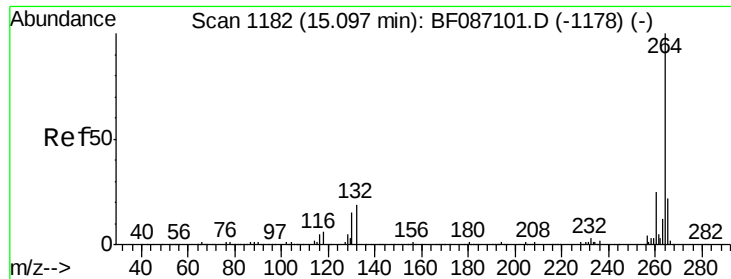


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.04 min Scan# 1177  
Delta R.T. -0.07 min  
Lab File: BF087265.D  
Acq: 21 May 2016 11:33

Instrument :  
BNA\_F  
ClientSampleId :  
SED-01-0-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.5  | 29.3  |
| 265     | 21.8  | 17.3  | 25.9  |

