

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031716\  
 Data File : BF085517.D  
 Acq On : 18 Mar 2016 3:25  
 Operator : UM/SJ  
 Sample : H1774-16  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-09-COMP

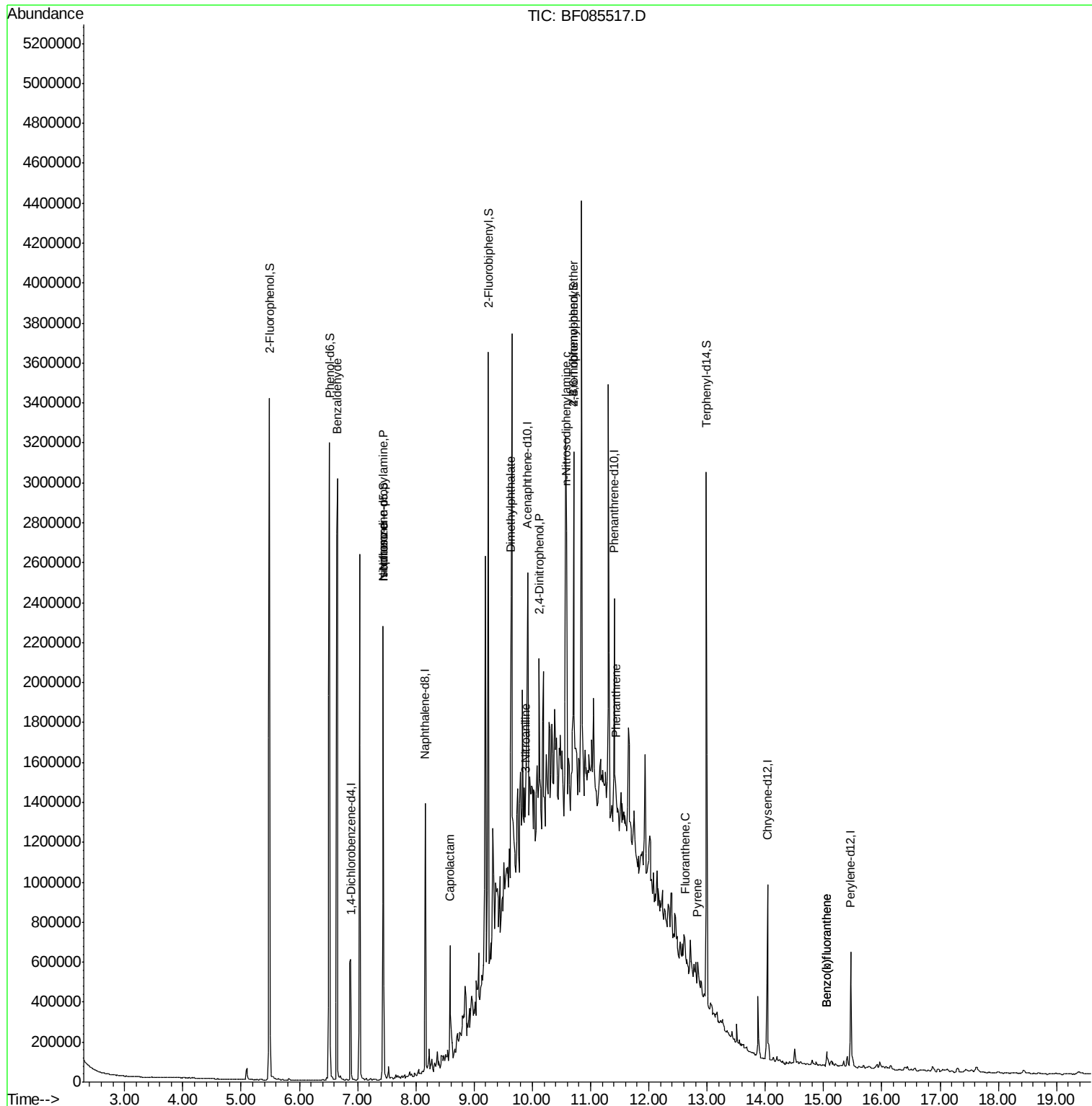
Quant Time: Mar 18 02:51:32 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF031516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 15 18:57:05 2016  
 Response via : Initial Calibration

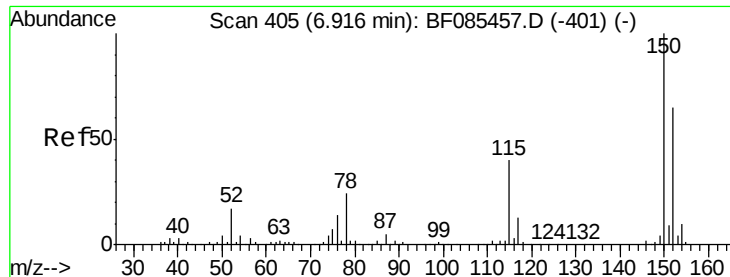
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.88  | 152  | 143746   | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 8.16  | 136  | 586854   | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.92  | 164  | 233297   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10           | 11.41 | 188  | 408970   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12               | 14.04 | 240  | 301932   | 20.00  | ng    | -0.05    |
| 86) Perylene-d12               | 15.47 | 264  | 284330   | 20.00  | ng    | -0.07    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 1151570  | 137.71 | ng    | -0.02    |
| 7) Phenol-d6                   | 6.52  | 99   | 1485597  | 136.96 | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 7.44  | 82   | 903633   | 91.04  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 10.71 | 330  | 305665   | 142.25 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl           | 9.25  | 172  | 1498246  | 111.41 | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.98 | 244  | 1036467  | 77.66  | ng    | -0.05    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 9) Benzaldehyde                | 6.65  | 77   | 27383    | 4.52   | ng    | 94       |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 121945   | 18.77  | ng    | # 77     |
| 25) Isophorone                 | 7.44  | 82   | 673496   | 33.28  | ng    | # 67     |
| 35) Caprolactam                | 8.58  | 113  | 16744    | 6.63   | ng    | # 33     |
| 49) Dimethylphthalate          | 9.64  | 163  | 304998   | 17.92  | ng    | # 98     |
| 52) 3-Nitroaniline             | 9.88  | 138  | 10539    | 2.34   | ng    | # 35     |
| 53) 2,4-Dinitrophenol          | 10.12 | 184  | 1432     | 7.51   | ng    | # 1      |
| 65) n-Nitrosodiphenylamine     | 10.58 | 169  | 71078    | 5.64   | ng    | # 40     |
| 66) 4-Bromophenyl-phenylether  | 10.71 | 248  | 21646    | 5.23   | ng    | # 1      |
| 70) Phenanthrene               | 11.43 | 178  | 61626    | 2.89   | ng    | # 88     |
| 74) Fluoranthene               | 12.62 | 202  | 74565    | 3.72   | ng    | 93       |
| 77) Pyrene                     | 12.84 | 202  | 75060    | 3.31   | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 15.05 | 252  | 45323    | 2.44   | ng    | 96       |
| 88) Benzo(k)fluoranthene       | 15.05 | 252  | 45323    | 3.12   | ng    | # 95     |

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

```
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Sample    : H1774-16  
Misc      :  
ALS Vial  : 39    Sample Multiplier: 1
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Quant Time: Mar 18 02:51:32 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF031516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Mar 15 18:57:05 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.88 min Scan# 402

Delta R.T. -0.03 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

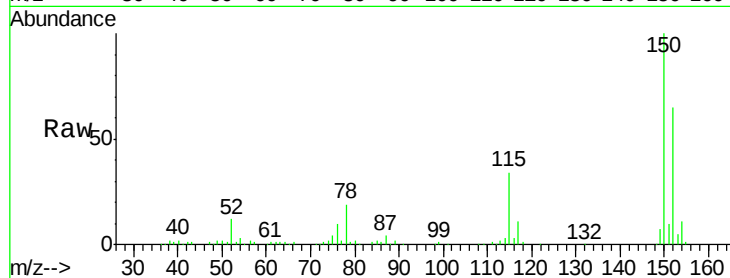
Tgt Ion:152 Resp: 143746

Ion Ratio Lower Upper

152 100

150 154.4 124.6 186.8

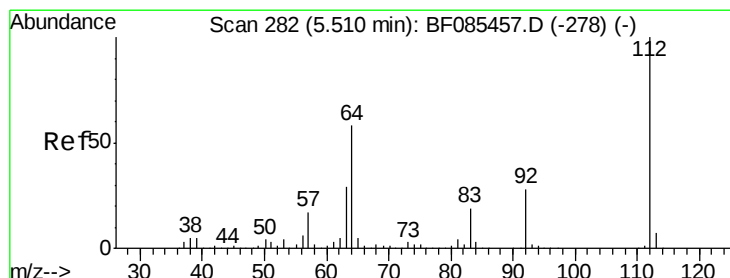
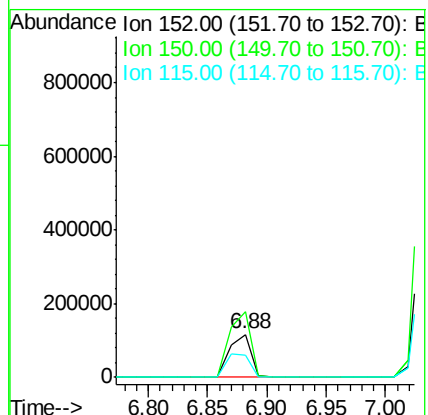
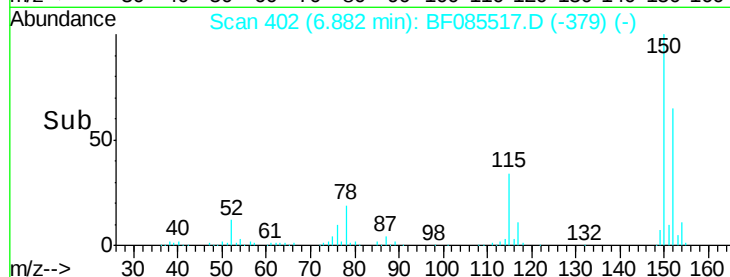
115 52.5 46.6 70.0



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: 137.71 ng

RT: 5.49 min Scan# 280

Delta R.T. -0.02 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

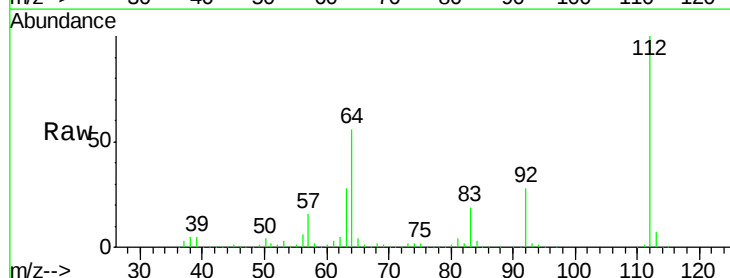
Tgt Ion:112 Resp: 1151570

Ion Ratio Lower Upper

112 100

64 55.8 49.0 73.4

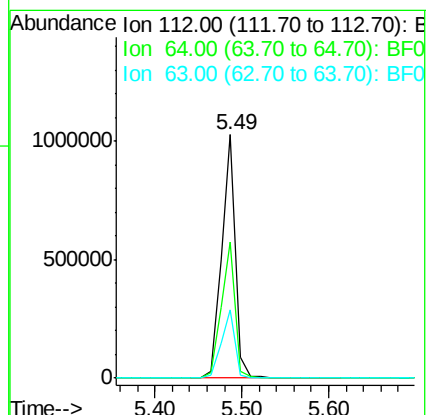
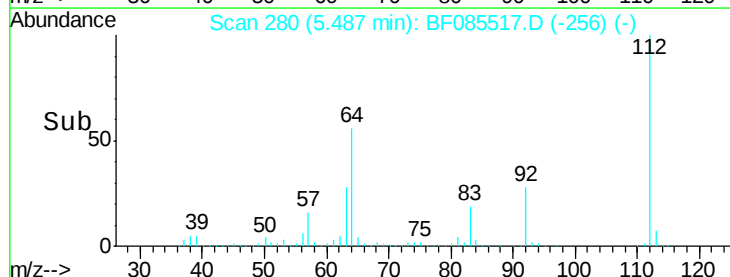
63 28.2 24.8 37.2

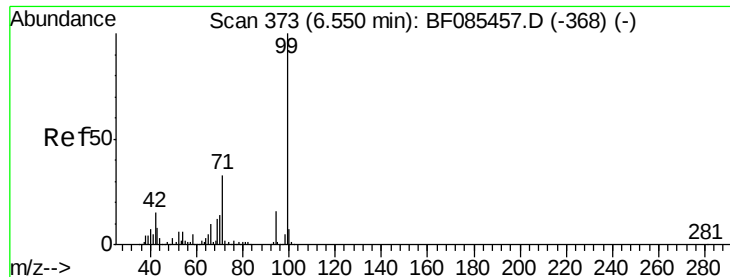


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 136.96 ng

RT: 6.52 min Scan# 370

Delta R.T. -0.03 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

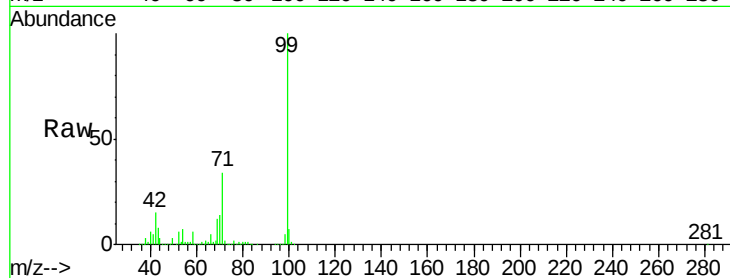
Tgt Ion: 99 Resp: 1485597

Ion Ratio Lower Upper

99 100

42 15.4 13.6 20.4

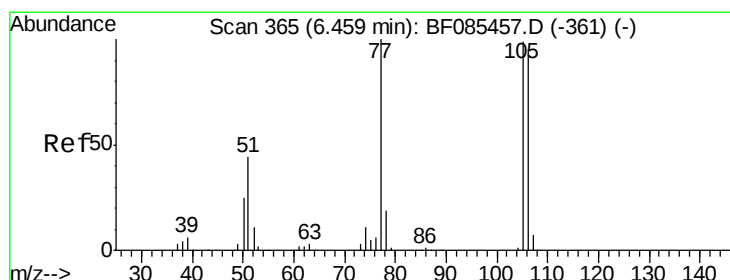
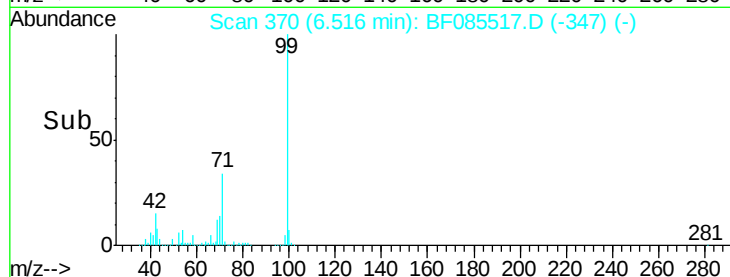
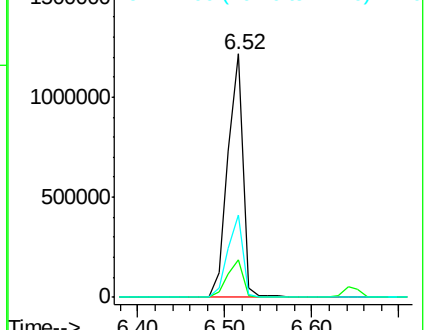
71 33.9 26.7 40.1



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



#9

Benzaldehyde

Concen: 4.52 ng

RT: 6.65 min Scan# 382

Delta R.T. 0.19 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

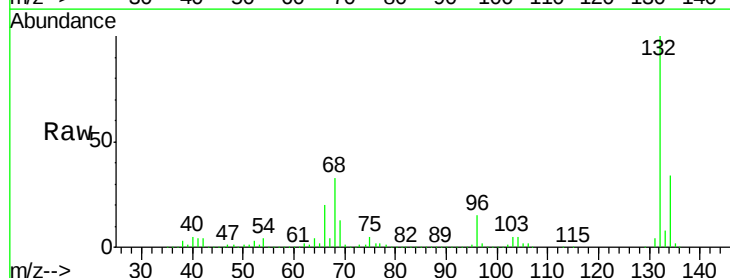
Tgt Ion: 77 Resp: 27383

Ion Ratio Lower Upper

77 100

105 94.4 78.2 118.2

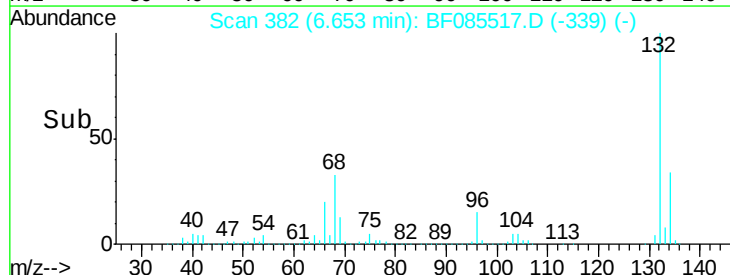
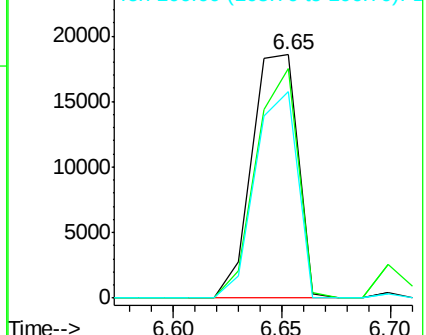
106 84.9 72.9 112.9

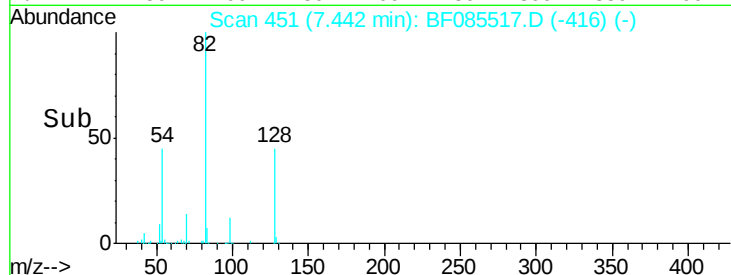
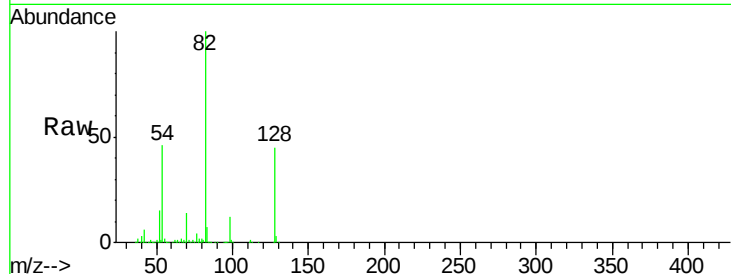
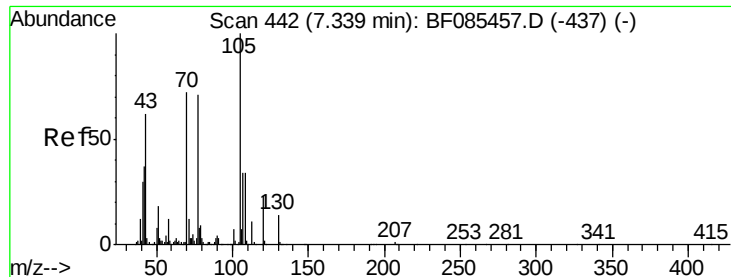


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

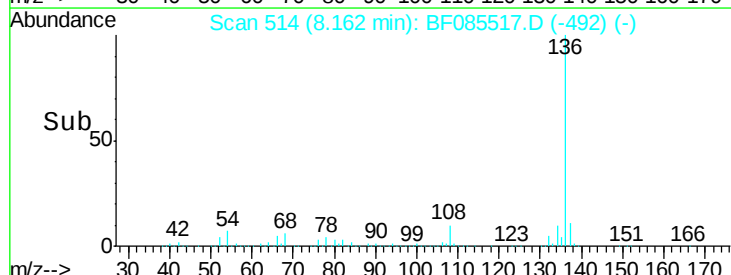
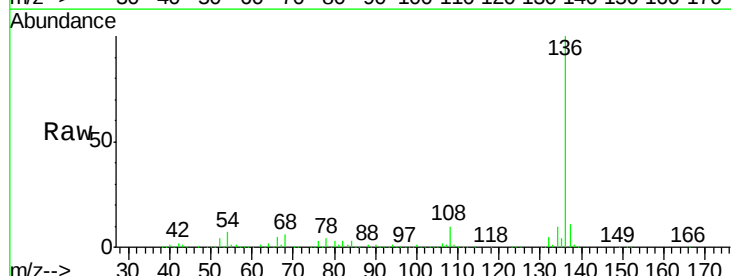
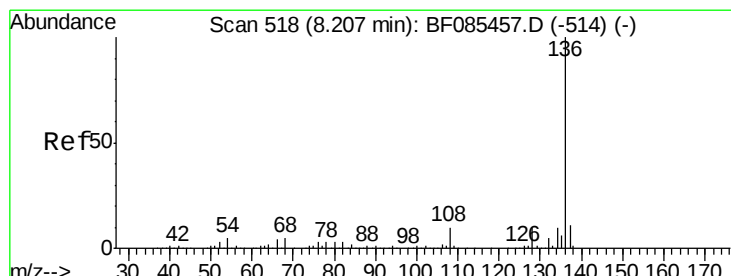
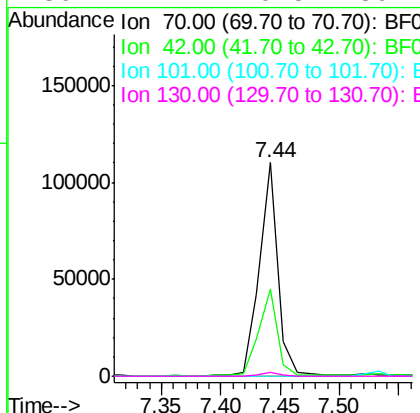




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.77 ng  
RT: 7.44 min Scan# 451  
Delta R.T. 0.10 min  
Lab File: BF085517.D  
Acq: 18 Mar 2016 3:25

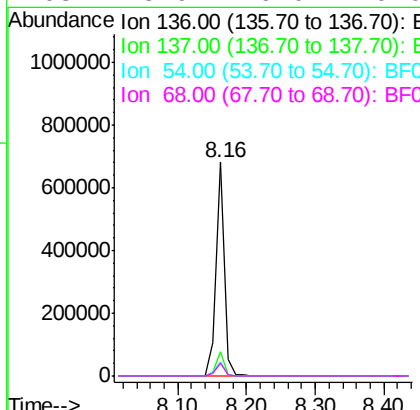
Instrument :  
BNA\_F  
ClientSampleId :  
SB-09-COMP

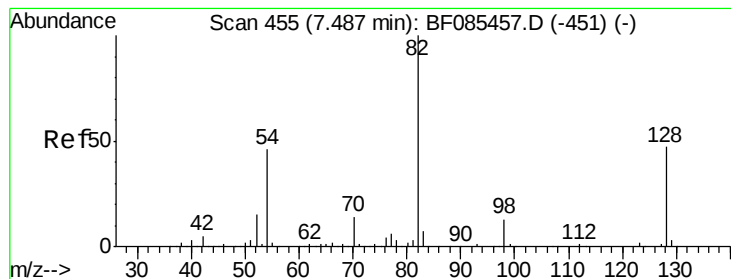
Tgt Ion: 70 Resp: 121945  
Ion Ratio Lower Upper  
70 100  
42 41.0 37.7 56.5  
101 0.0 8.2 12.4#  
130 2.1 20.5 30.7#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.16 min Scan# 514  
Delta R.T. -0.05 min  
Lab File: BF085517.D  
Acq: 18 Mar 2016 3:25

Tgt Ion: 136 Resp: 586854  
Ion Ratio Lower Upper  
136 100  
137 11.2 9.3 13.9  
54 6.8 7.4 11.2#  
68 5.9 6.0 9.0#





#23

Nitrobenzene-d5

Concen: 91.04 ng

RT: 7.44 min Scan# 451

Delta R.T. -0.05 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

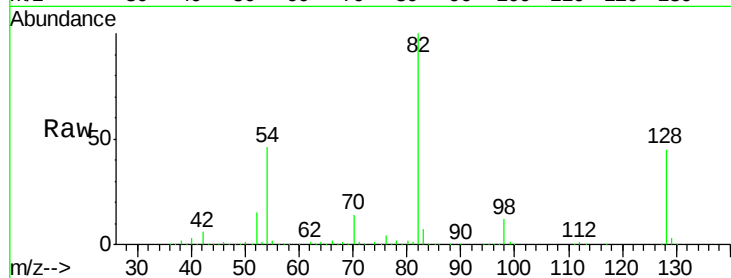
Tgt Ion: 82 Resp: 903633

Ion Ratio Lower Upper

82 100

128 45.4 34.5 51.7

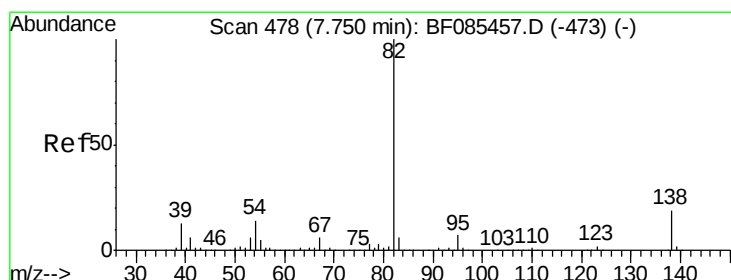
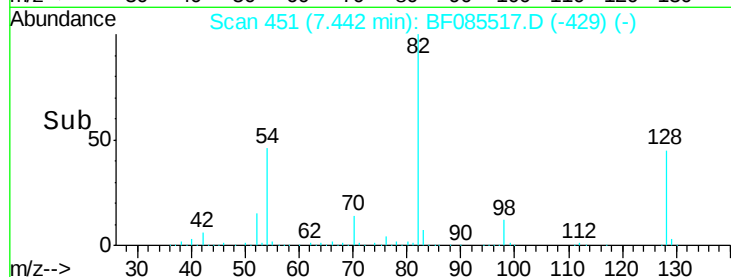
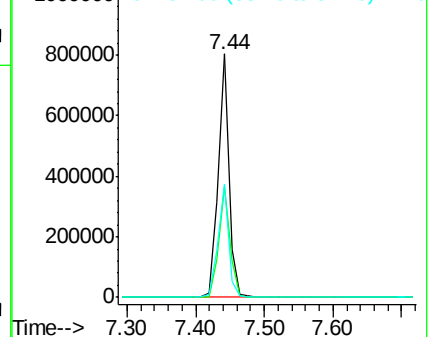
54 46.5 39.3 58.9



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 33.28 ng

RT: 7.44 min Scan# 451

Delta R.T. -0.31 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

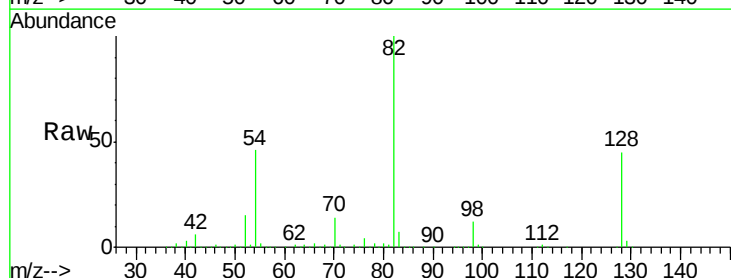
Tgt Ion: 82 Resp: 673496

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

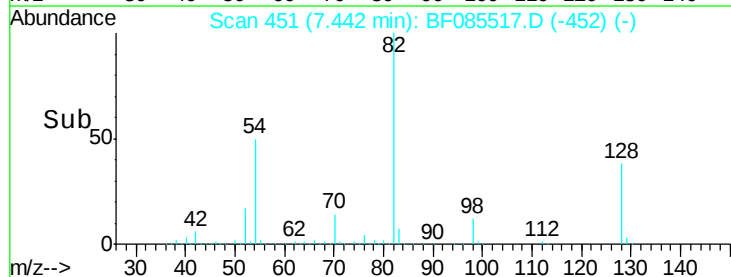
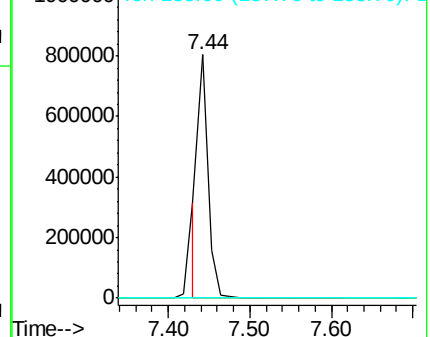
138 0.0 13.3 19.9#

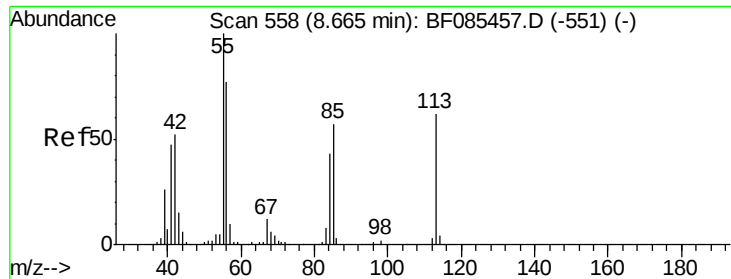


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

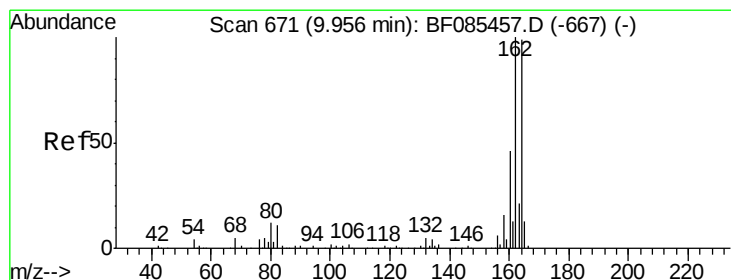
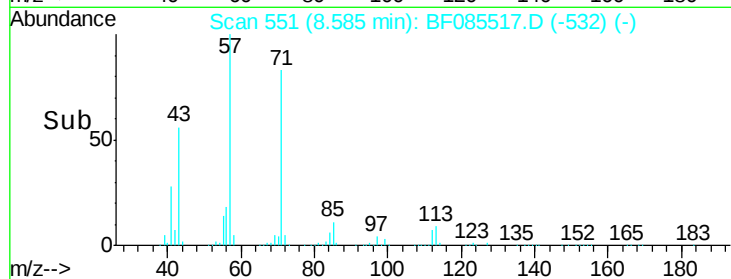
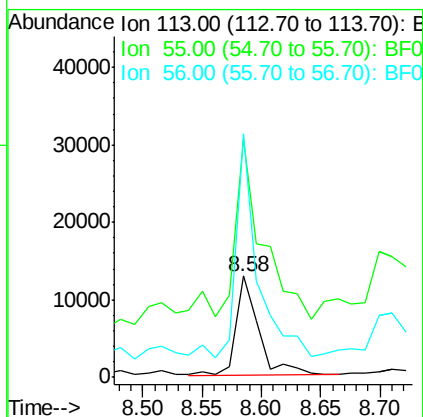
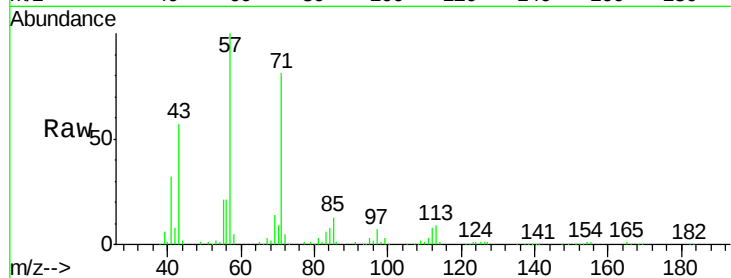




#35  
 Caprolactam  
 Concen: 6.63 ng  
 RT: 8.58 min Scan# 551  
 Delta R.T. -0.08 min  
 Lab File: BF085517.D  
 Acq: 18 Mar 2016 3:25

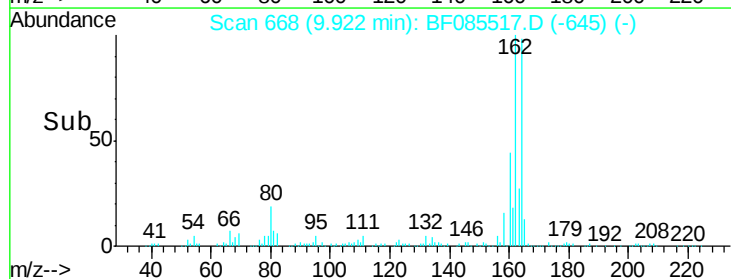
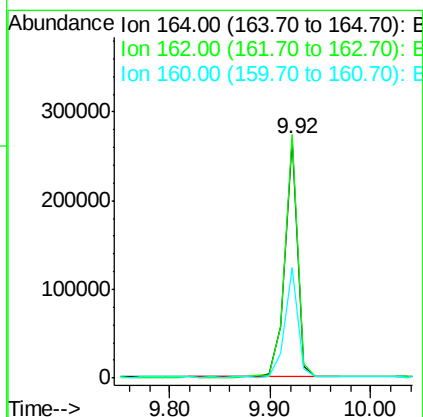
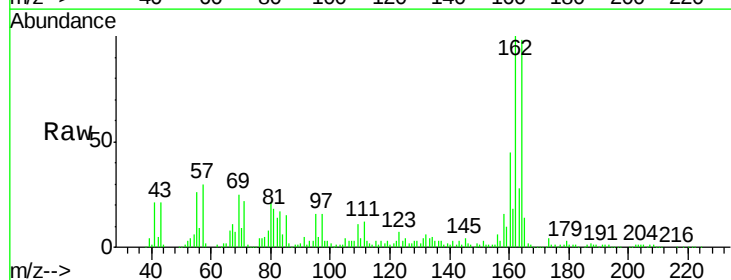
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-09-COMP

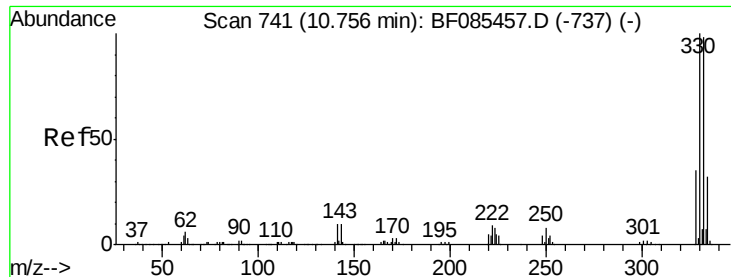
Tgt Ion:113 Resp: 16744  
 Ion Ratio Lower Upper  
 113 100  
 55 235.5 152.7 192.7#  
 56 240.8 109.0 149.0#



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.92 min Scan# 668  
 Delta R.T. -0.03 min  
 Lab File: BF085517.D  
 Acq: 18 Mar 2016 3:25

Tgt Ion:164 Resp: 233297  
 Ion Ratio Lower Upper  
 164 100  
 162 101.9 83.3 124.9  
 160 46.1 37.9 56.9

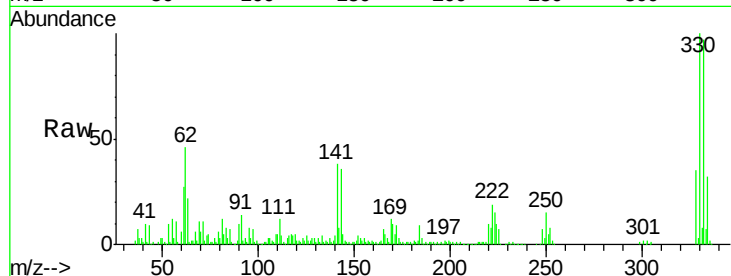




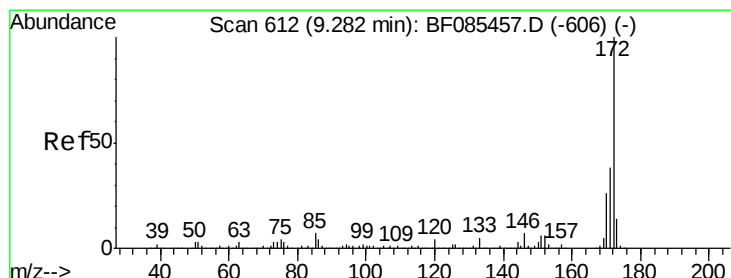
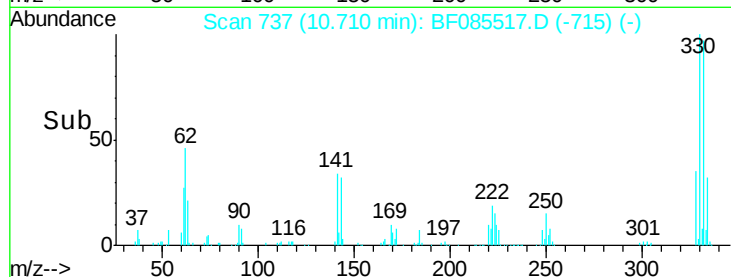
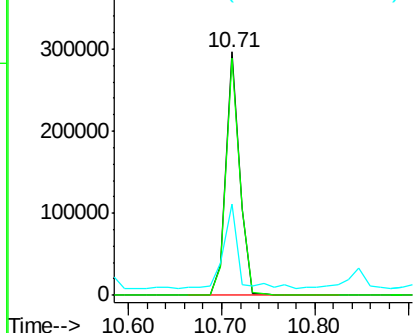
#41  
 2,4,6-Tribromophenol  
 Concen: 142.25 ng  
 RT: 10.71 min Scan# 737  
 Delta R.T. -0.05 min  
 Lab File: BF085517.D  
 Acq: 18 Mar 2016 3:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-09-COMP

Tgt Ion:330 Resp: 305665  
 Ion Ratio Lower Upper  
 330 100  
 332 98.2 77.1 115.7  
 141 34.0 35.0 52.6#

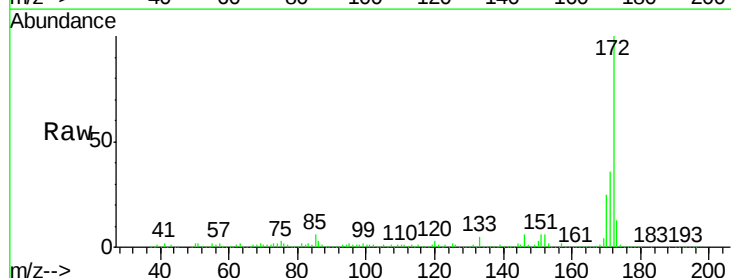


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

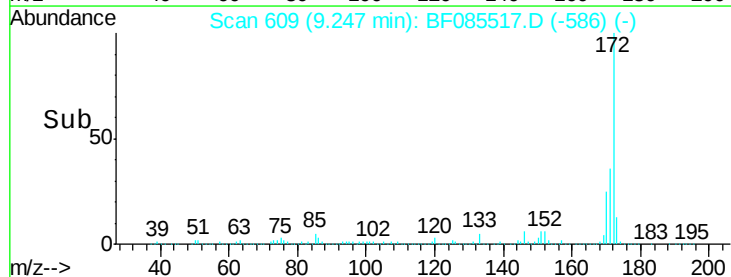
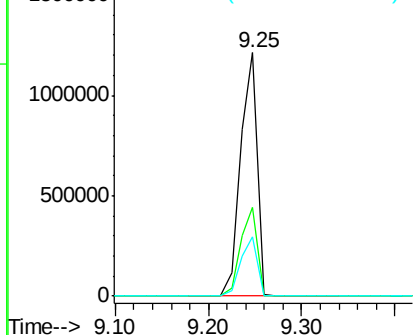


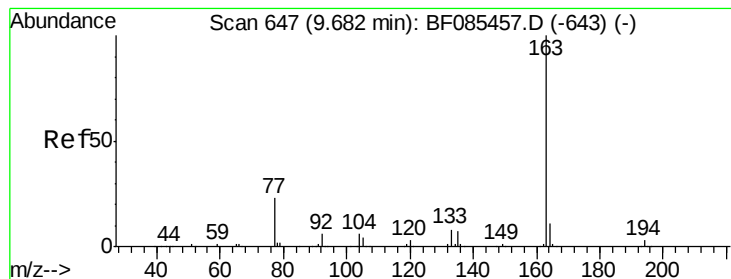
#44  
 2-Fluorobiphenyl  
 Concen: 111.41 ng  
 RT: 9.25 min Scan# 609  
 Delta R.T. -0.03 min  
 Lab File: BF085517.D  
 Acq: 18 Mar 2016 3:25

Tgt Ion:172 Resp: 1498246  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 29.3 43.9  
 170 24.6 20.0 30.0



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: 17.92 ng

RT: 9.64 min Scan# 643

Delta R.T. -0.05 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

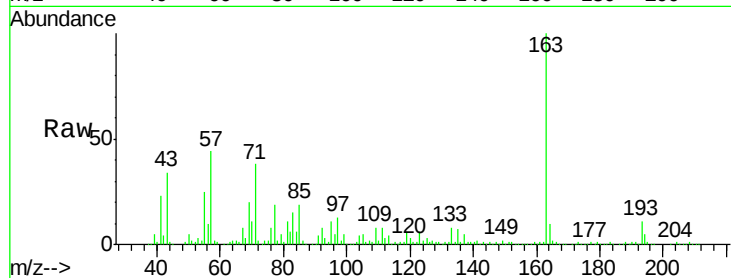
Tgt Ion:163 Resp: 304998

Ion Ratio Lower Upper

163 100

194 5.4 3.1 4.7#

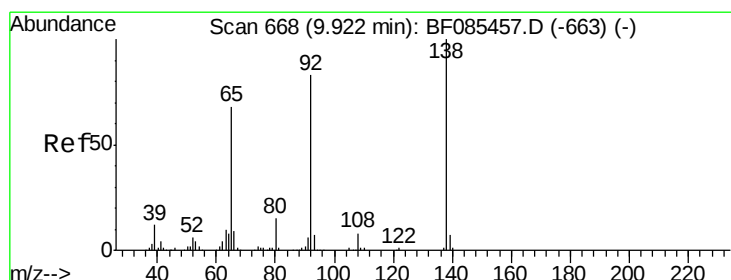
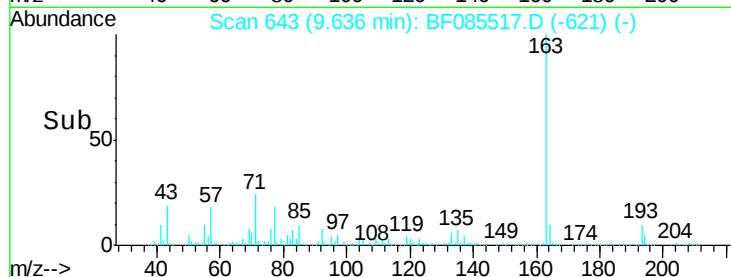
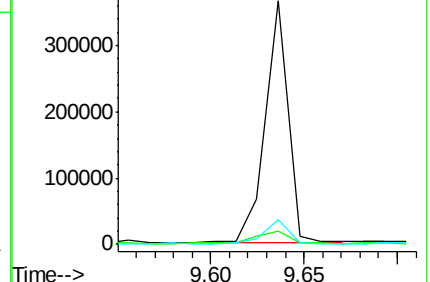
164 10.1 8.2 12.4



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



#52

3-Nitroaniline

Concen: 2.34 ng

RT: 9.88 min Scan# 664

Delta R.T. -0.05 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

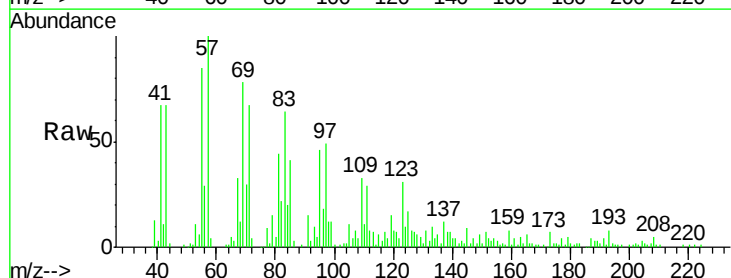
Tgt Ion:138 Resp: 10539

Ion Ratio Lower Upper

138 100

108 58.6 7.8 11.6#

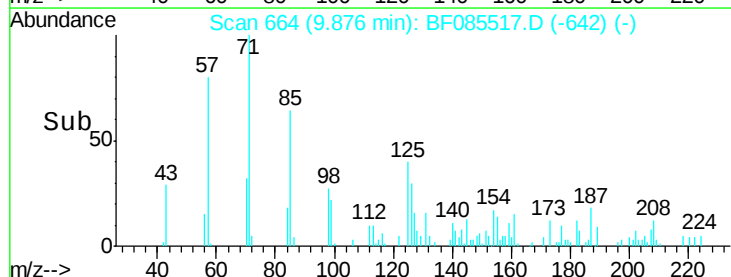
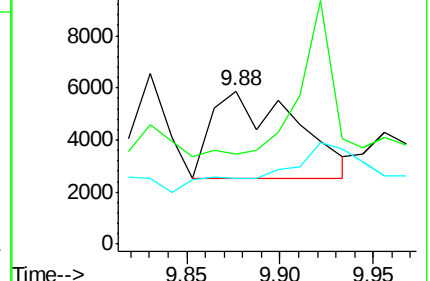
92 42.5 81.3 121.9#

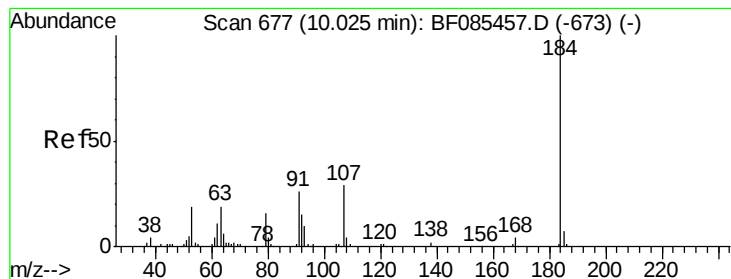


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0





#53

2,4-Dinitrophenol

Concen: 7.51 ng

RT: 10.12 min Scan# 685

Delta R.T. 0.09 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

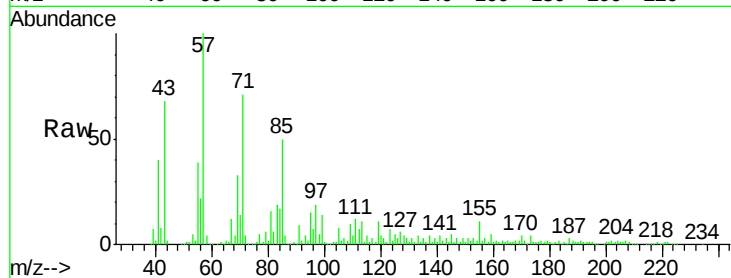
Tgt Ion:184 Resp: 1432

Ion Ratio Lower Upper

184 100

63 227.8 82.2 123.4#

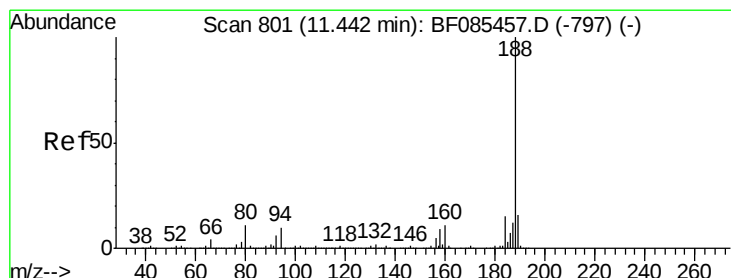
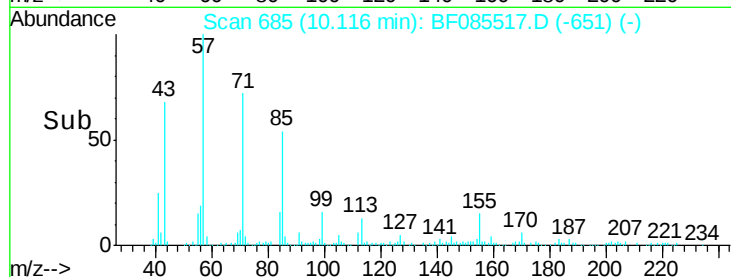
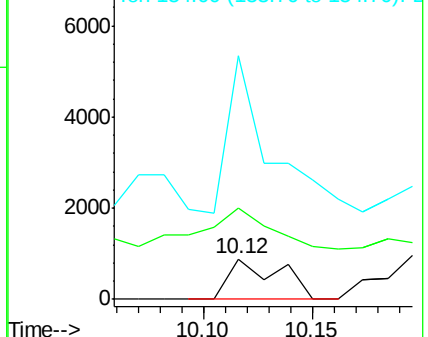
154 605.3 108.9 163.3#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.41 min Scan# 798

Delta R.T. -0.03 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

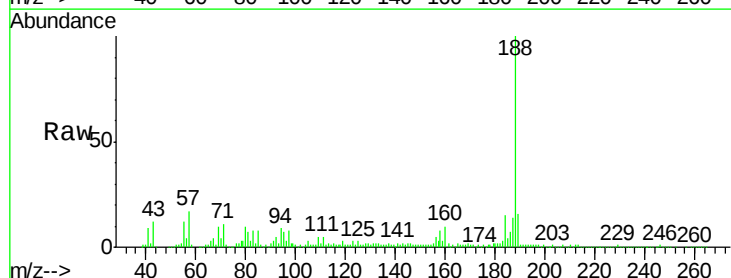
Tgt Ion:188 Resp: 408970

Ion Ratio Lower Upper

188 100

94 9.4 7.0 10.6

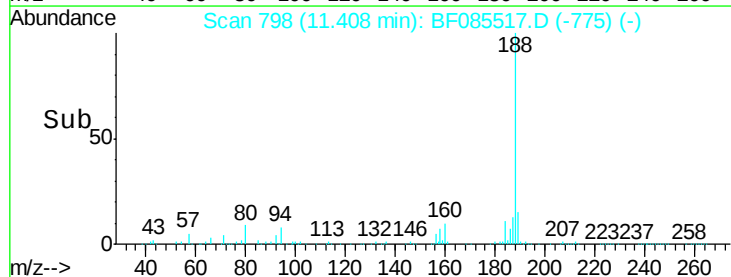
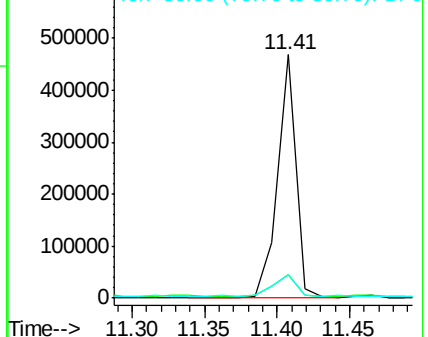
80 9.5 7.4 11.0

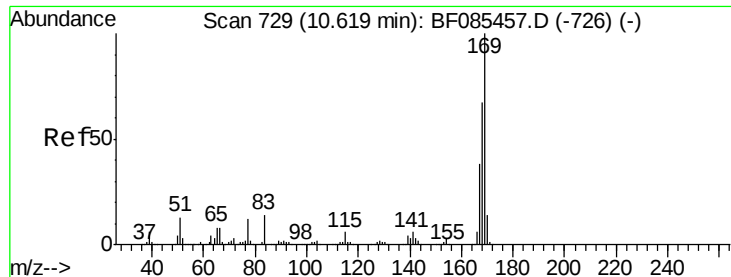


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#65

n-Nitrosodiphenylamine

Concen: 5.64 ng

RT: 10.58 min Scan# 726

Delta R.T. -0.03 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

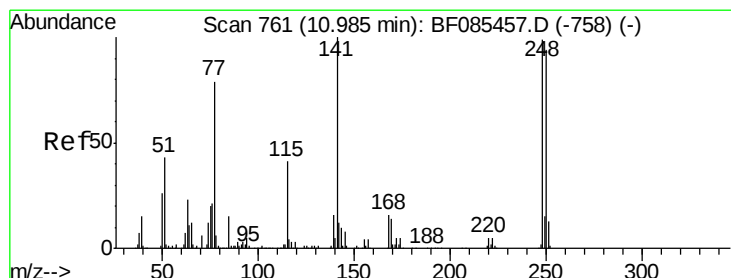
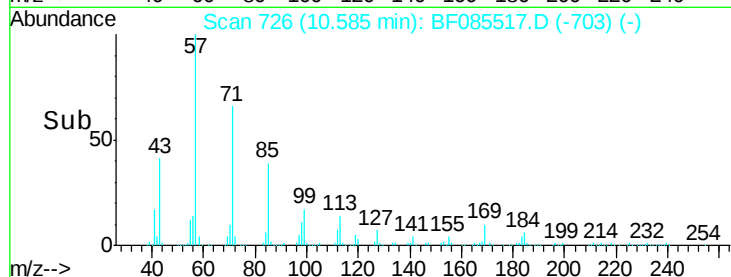
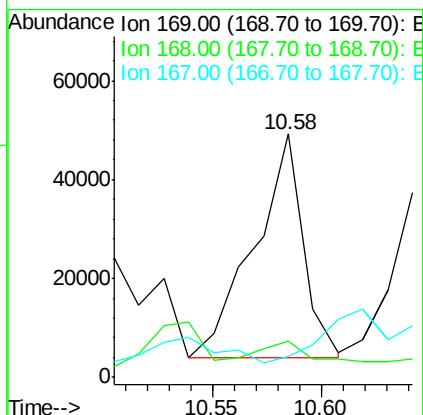
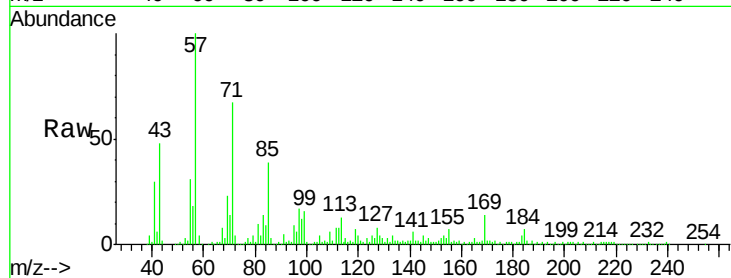
Tgt Ion:169 Resp: 71078

Ion Ratio Lower Upper

169 100

168 15.1 54.8 82.2#

167 8.8 30.3 45.5#



#66

4-Bromophenyl-phenylether

Concen: 5.23 ng

RT: 10.71 min Scan# 737

Delta R.T. -0.27 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

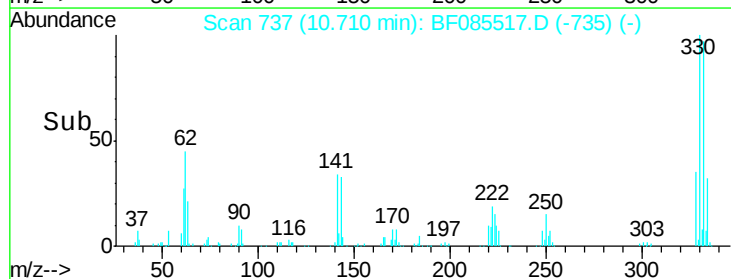
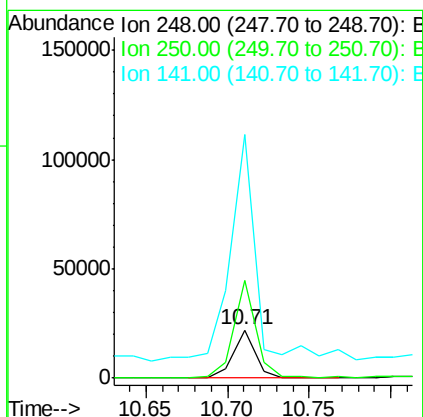
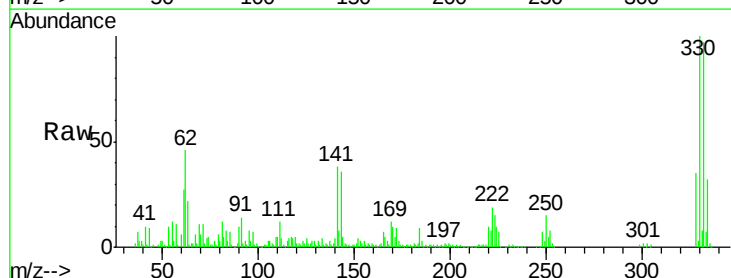
Tgt Ion:248 Resp: 21646

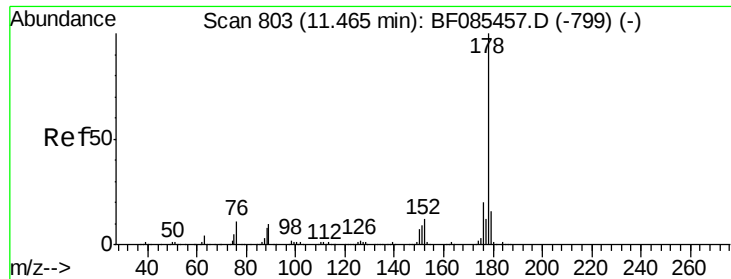
Ion Ratio Lower Upper

248 100

250 201.9 77.1 115.7#

141 504.1 66.2 99.2#





#70

Phenanthrene

Concen: 2.89 ng

RT: 11.43 min Scan# 800

Delta R.T. -0.03 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

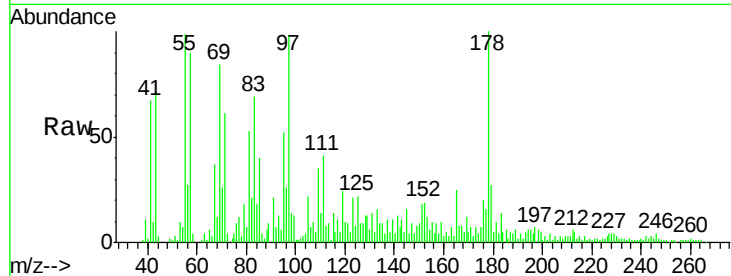
Tgt Ion:178 Resp: 61626

Ion Ratio Lower Upper

178 100

176 20.4 16.8 25.2

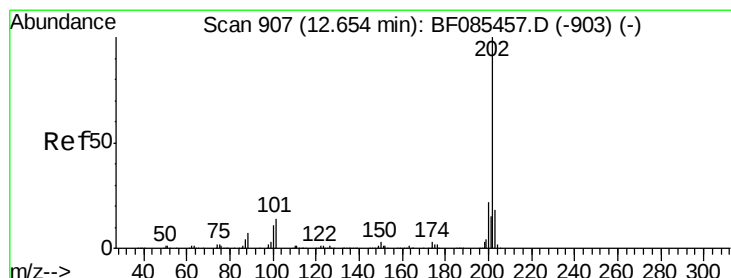
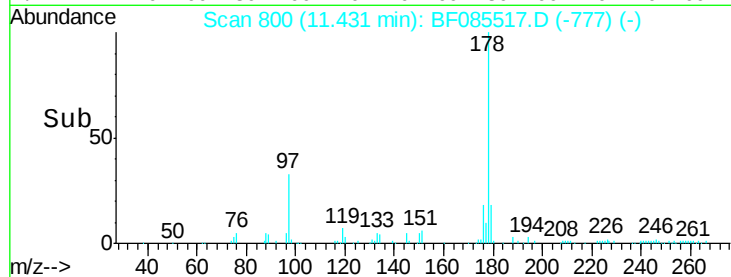
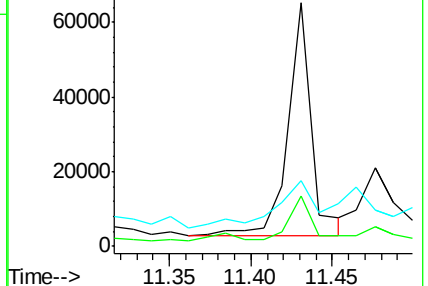
179 27.0 13.1 19.7#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 3.72 ng

RT: 12.62 min Scan# 904

Delta R.T. -0.03 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

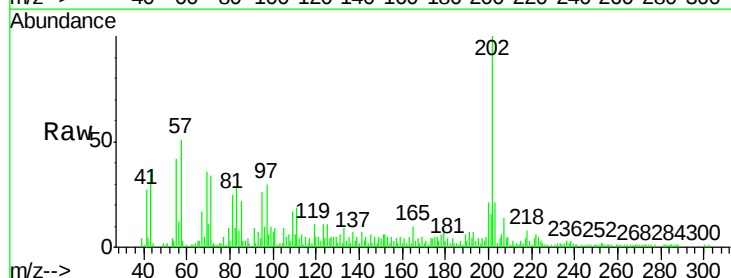
Tgt Ion:202 Resp: 74565

Ion Ratio Lower Upper

202 100

101 9.0 0.0 31.8

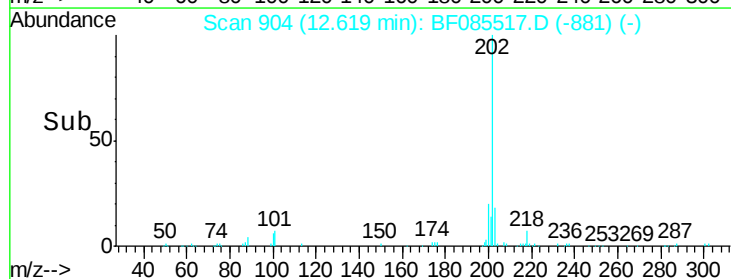
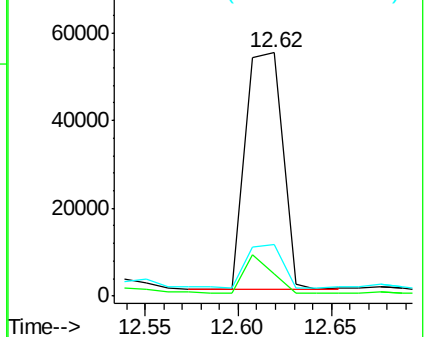
203 21.2 0.0 38.4

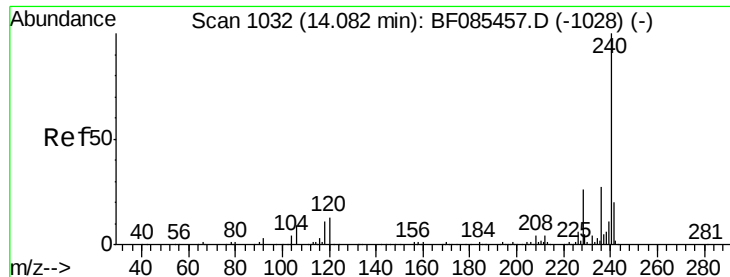


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.04 min Scan# 1028

Delta R.T. -0.05 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

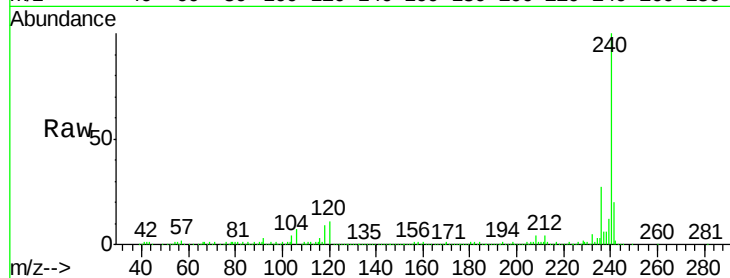
Tgt Ion:240 Resp: 301932

Ion Ratio Lower Upper

240 100

120 10.5 5.3 7.9#

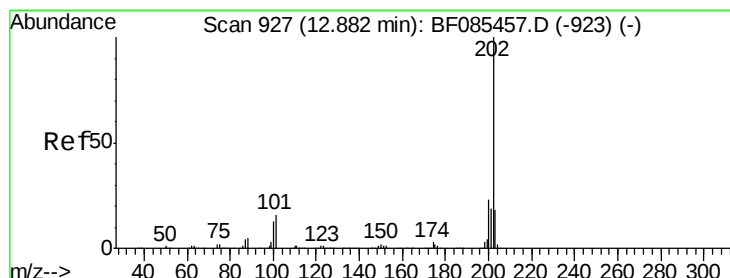
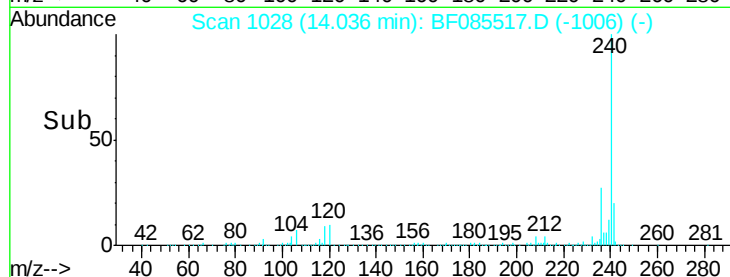
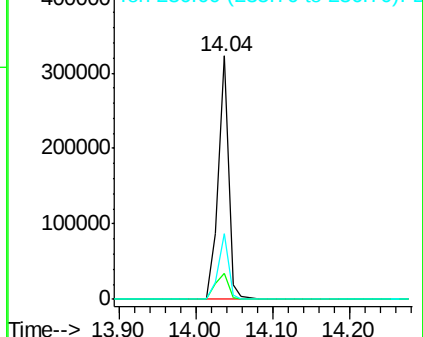
236 26.8 20.7 31.1



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: 3.31 ng

RT: 12.84 min Scan# 923

Delta R.T. -0.05 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

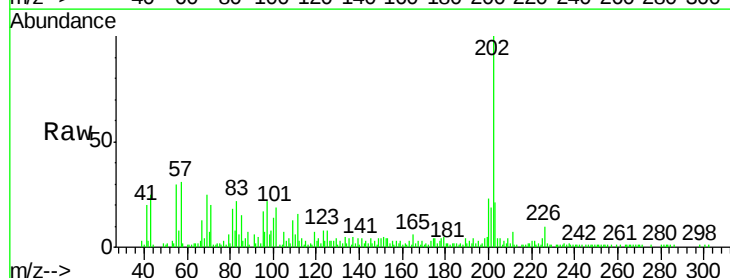
Tgt Ion:202 Resp: 75060

Ion Ratio Lower Upper

202 100

200 23.2 18.2 27.4

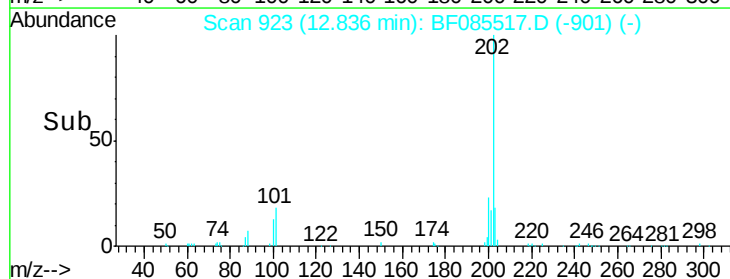
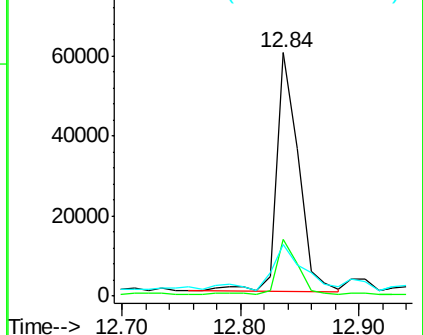
203 21.0 14.7 22.1

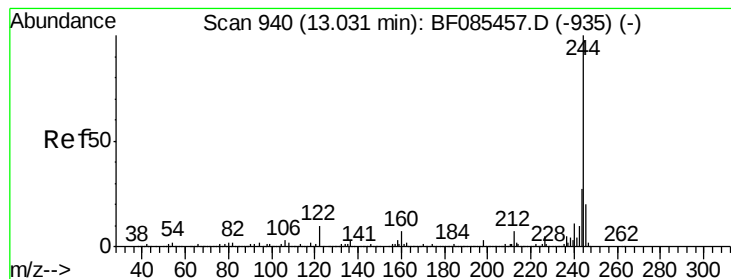


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 77.66 ng

RT: 12.98 min Scan# 936

Delta R.T. -0.05 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

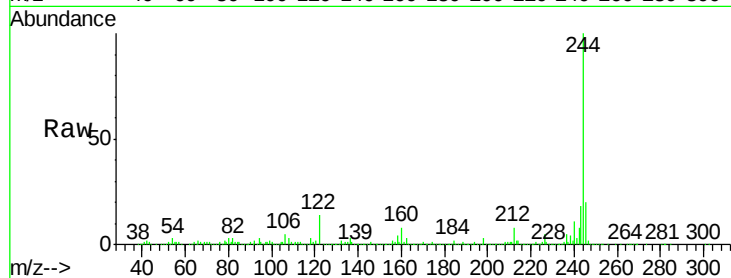
Tgt Ion:244 Resp: 1036467

Ion Ratio Lower Upper

244 100

212 7.7 6.4 9.6

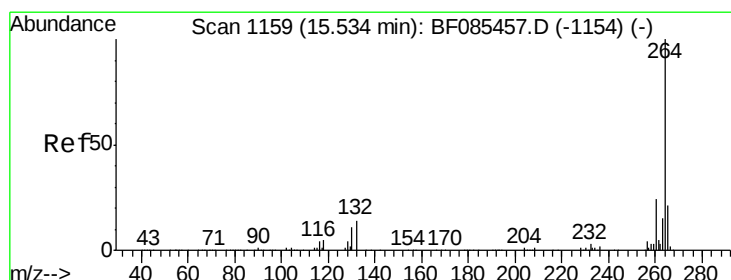
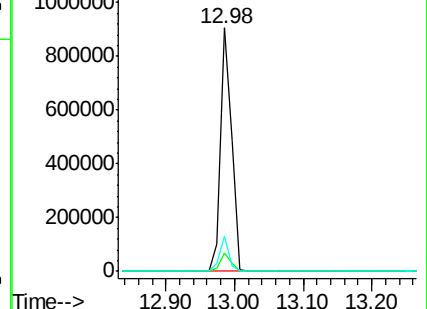
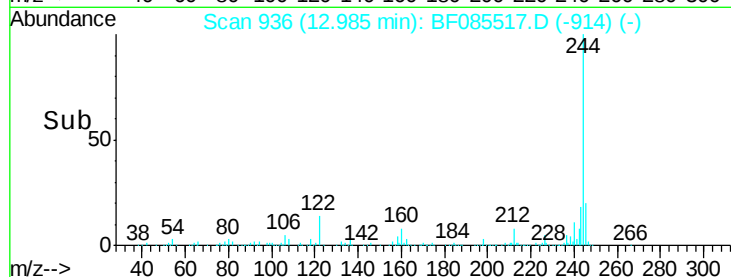
122 14.4 11.4 17.2



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: 15.47 min Scan# 1153

Delta R.T. -0.07 min

Lab File: BF085517.D

Acq: 18 Mar 2016 3:25

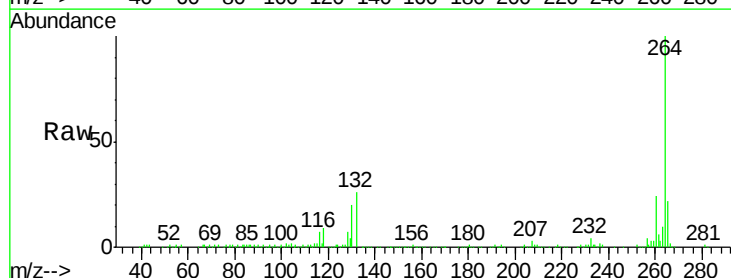
Tgt Ion:264 Resp: 284330

Ion Ratio Lower Upper

264 100

260 24.4 19.2 28.8

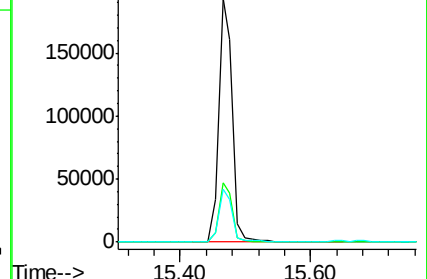
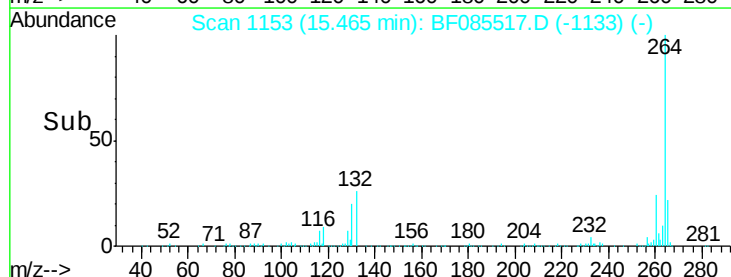
265 21.8 17.3 25.9

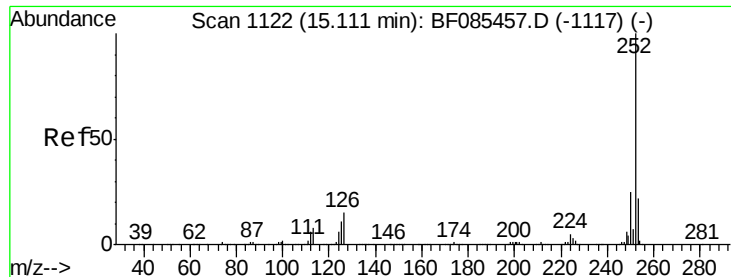


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

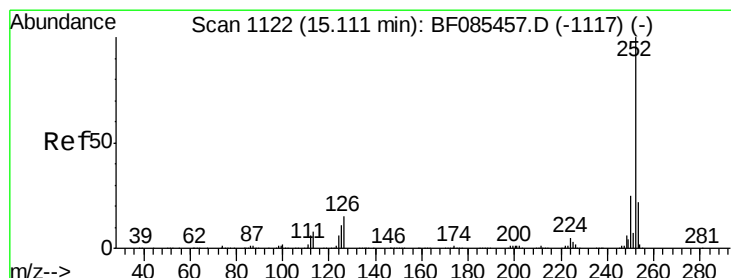
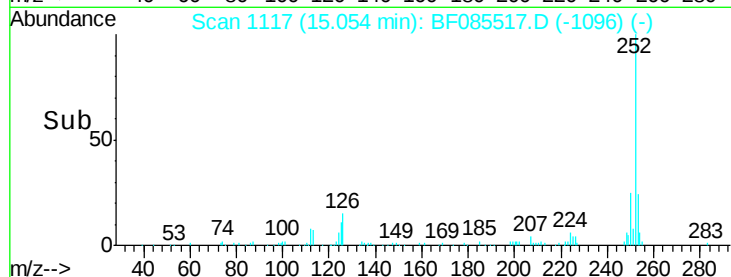
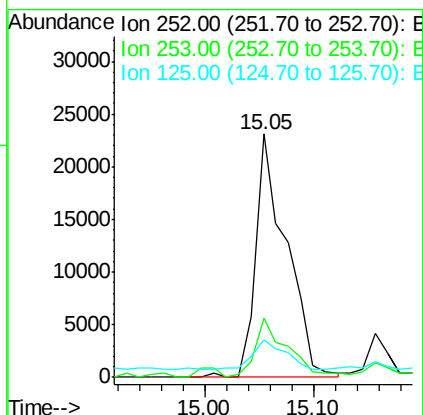
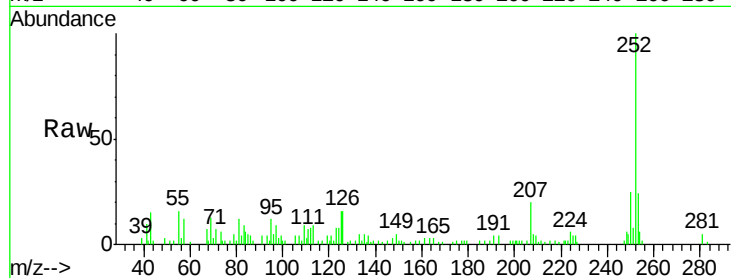




#87  
Benzo(b)fluoranthene  
Concen: 2.44 ng  
RT: 15.05 min Scan# 1117  
Delta R.T. -0.06 min  
Lab File: BF085517.D  
Acq: 18 Mar 2016 3:25

Instrument :  
BNA\_F  
ClientSampleId :  
SB-09-COMP

Tgt Ion:252 Resp: 45323  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.8 26.6  
125 15.7 11.3 16.9



#88  
Benzo(k)fluoranthene  
Concen: 3.12 ng  
RT: 15.05 min Scan# 1117  
Delta R.T. -0.09 min  
Lab File: BF085517.D  
Acq: 18 Mar 2016 3:25

Tgt Ion:252 Resp: 45323  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.8 26.6  
125 15.7 10.4 15.6#

