

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040615\  
 Data File : BF078283.D  
 Acq On : 7 Apr 2015 5:07  
 Operator : TP/IZ  
 Sample : G1775-02  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SW-015

Quant Time: Apr 07 06:54:55 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 07 04:11:17 2015  
 Response via : Initial Calibration

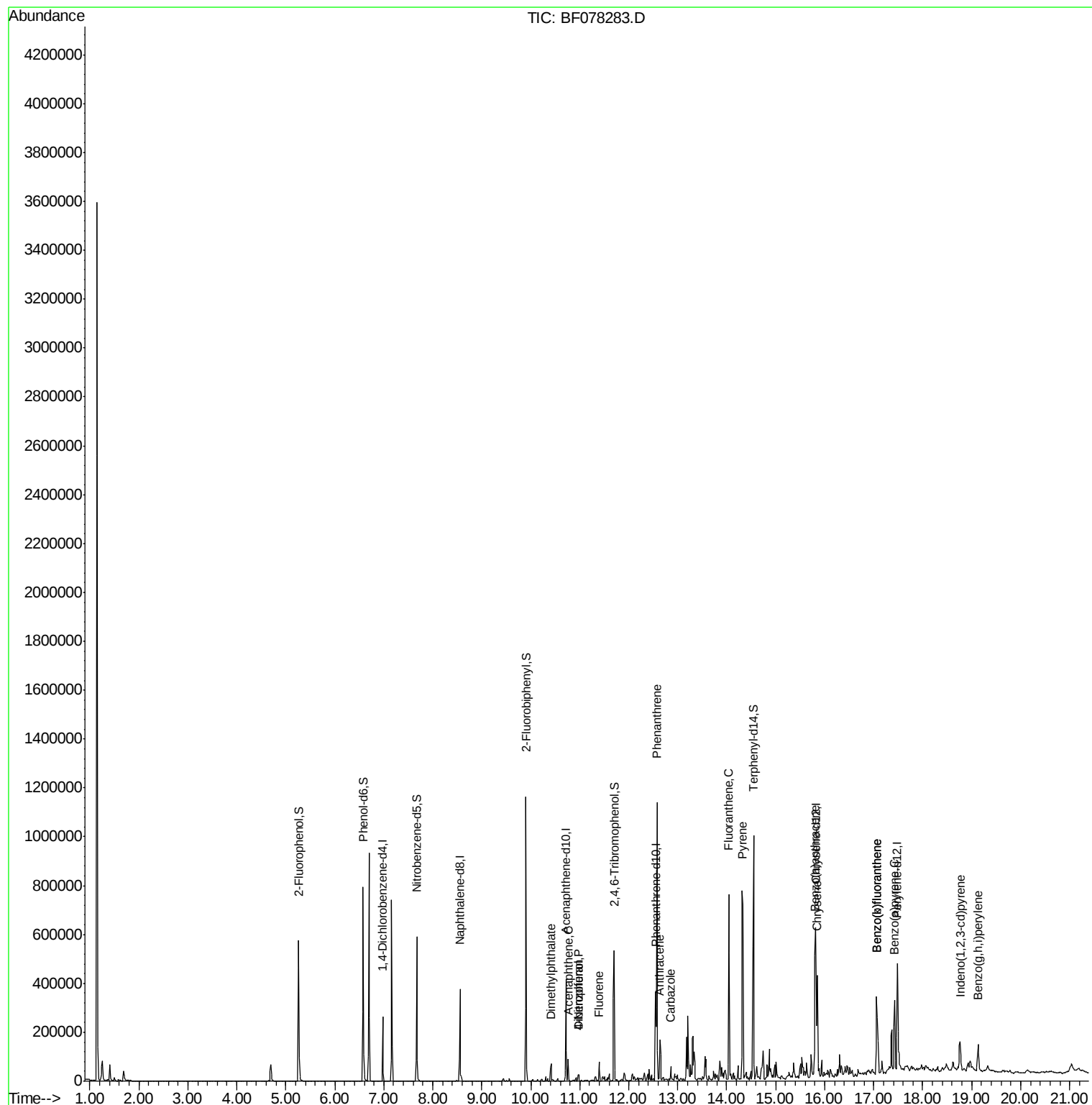
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.98  | 152  | 43112    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.56  | 136  | 175032   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.72 | 164  | 86724    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 12.55 | 188  | 172564   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 15.81 | 240  | 183828   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 17.48 | 264  | 185183   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.26  | 112  | 245374   | 93.84  | ng    | 0.01     |
| 7) Phenol-d6                | 6.58  | 99   | 324066   | 98.89  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.68  | 82   | 188340   | 65.22  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.70 | 330  | 74956    | 104.21 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.90  | 172  | 373699   | 61.59  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.55 | 244  | 396149   | 48.70  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 10.42 | 163  | 45121    | 6.93   | ng    | # 97     |
| 51) Acenaphthene            | 10.76 | 154  | 28602    | 5.64   | ng    | 97       |
| 54) Dibenzofuran            | 10.98 | 168  | 16322    | 2.11   | ng    | 92       |
| 55) 4-Nitrophenol           | 10.97 | 139  | 5577     | 7.56   | ng    | # 18     |
| 57) Fluorene                | 11.39 | 166  | 28442    | 4.53   | ng    | 95       |
| 70) Phenanthrene            | 12.58 | 178  | 455609   | 45.64  | ng    | 100      |
| 71) Anthracene              | 12.64 | 178  | 84995    | 8.64   | ng    | 97       |
| 72) Carbazole               | 12.85 | 167  | 24887    | 2.70   | ng    | 97       |
| 74) Fluoranthene            | 14.04 | 202  | 415521   | 39.47  | ng    | 97       |
| 77) Pyrene                  | 14.33 | 202  | 435773   | 37.76  | ng    | 99       |
| 80) Benzo(a)anthracene      | 15.80 | 228  | 198436   | 18.14  | ng    | 96       |
| 82) Chrysene                | 15.85 | 228  | 165707   | 16.13  | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 18.76 | 276  | 82466    | 7.07   | ng    | # 87     |
| 87) Benzo(b)fluoranthene    | 17.06 | 252  | 238809   | 20.87  | ng    | # 96     |
| 88) Benzo(k)fluoranthene    | 17.06 | 252  | 239418   | 23.54  | ng    | 97       |
| 89) Benzo(a)pyrene          | 17.43 | 252  | 139934   | 14.01  | ng    | 97       |
| 91) Benzo(g,h,i)perylene    | 19.13 | 276  | 79542    | 7.93   | ng    | 99       |

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

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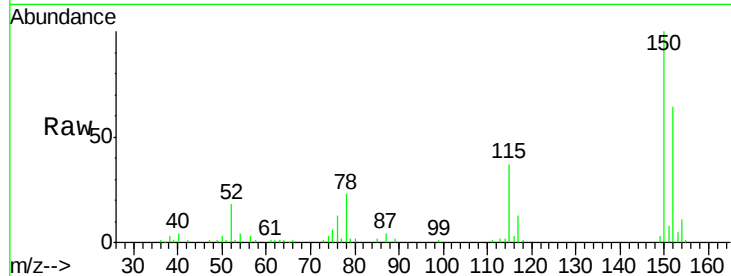




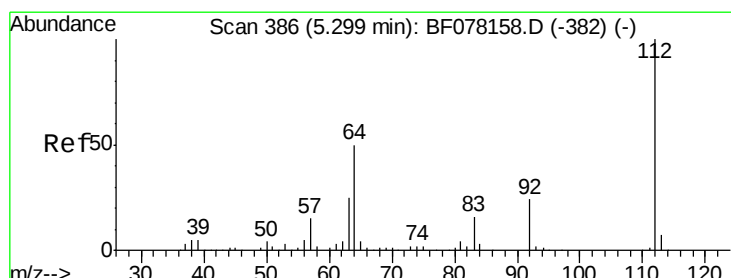
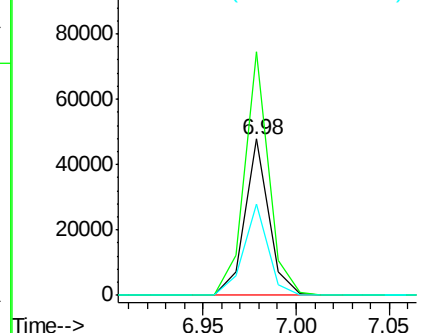
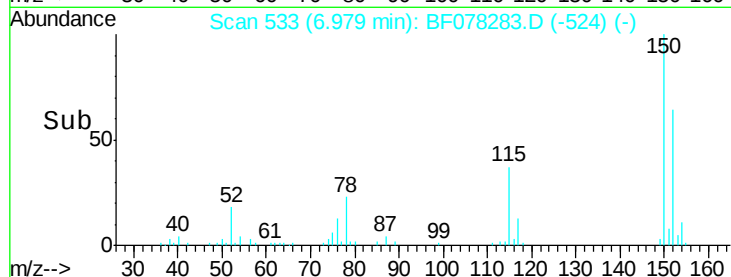
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.98 min Scan# 533  
 Delta R.T. 0.00 min  
 Lab File: BF078283.D  
 Acq: 7 Apr 2015 5:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SW-015

Tgt Ion:152 Resp: 43112  
 Ion Ratio Lower Upper  
 152 100  
 150 156.0 125.9 188.9  
 115 58.2 52.7 79.1

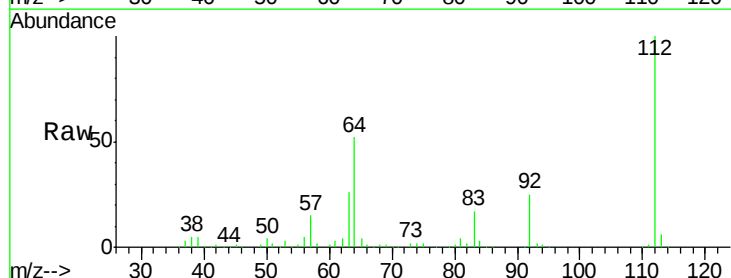


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

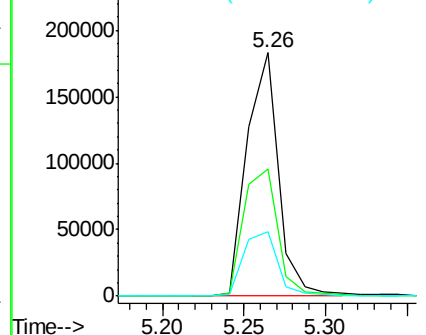
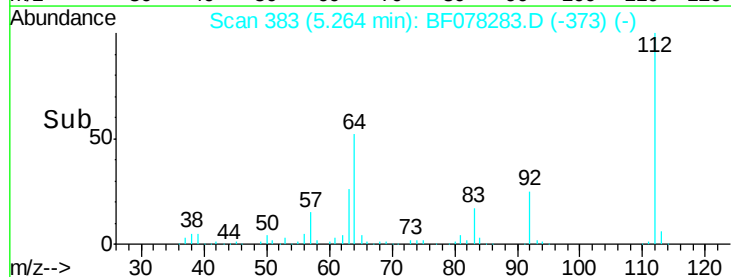


#5  
 2-Fluorophenol  
 Concen: 93.84 ng  
 RT: 5.26 min Scan# 383  
 Delta R.T. 0.01 min  
 Lab File: BF078283.D  
 Acq: 7 Apr 2015 5:07

Tgt Ion:112 Resp: 245374  
 Ion Ratio Lower Upper  
 112 100  
 64 52.0 39.9 59.9  
 63 26.4 20.2 30.4



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: 98.89 ng

RT: 6.58 min Scan# 498

Delta R.T. 0.00 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

Instrument :

BNA\_F

ClientSampleId :

SW-015

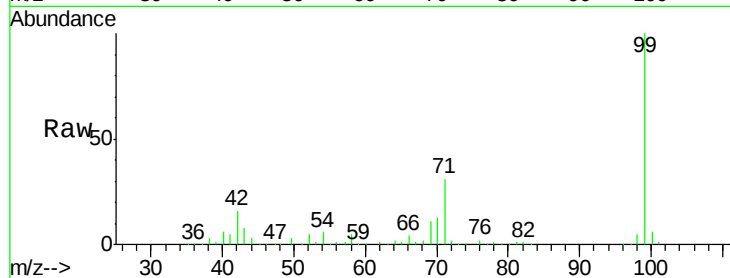
Tgt Ion: 99 Resp: 324066

Ion Ratio Lower Upper

99 100

42 15.6 14.8 22.2

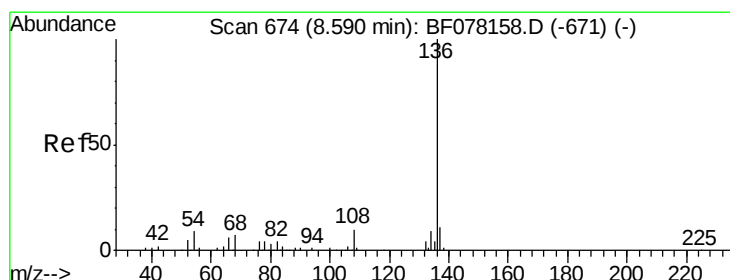
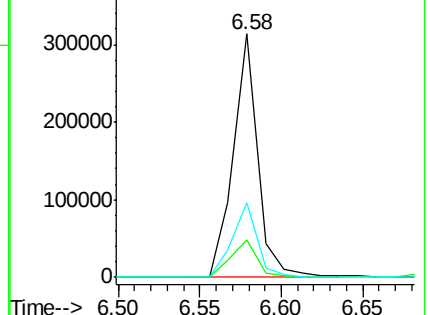
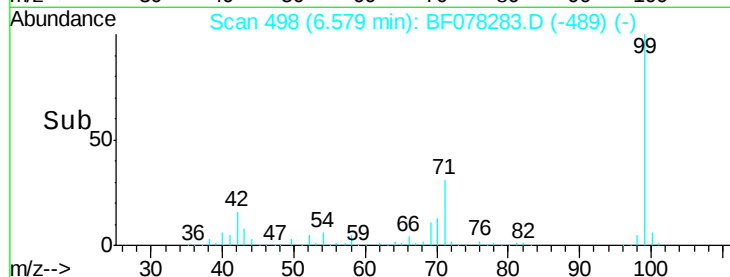
71 30.5 26.6 39.8



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: 8.56 min Scan# 671

Delta R.T. 0.00 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

Tgt Ion: 136 Resp: 175032

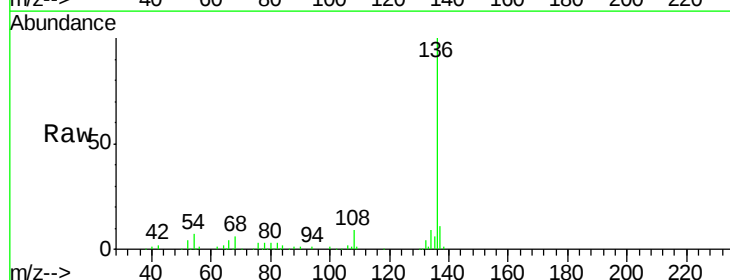
Ion Ratio Lower Upper

136 100

137 10.7 9.0 13.4

54 6.6 7.0 10.6#

68 5.6 5.4 8.2

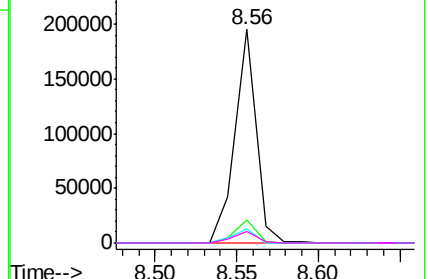
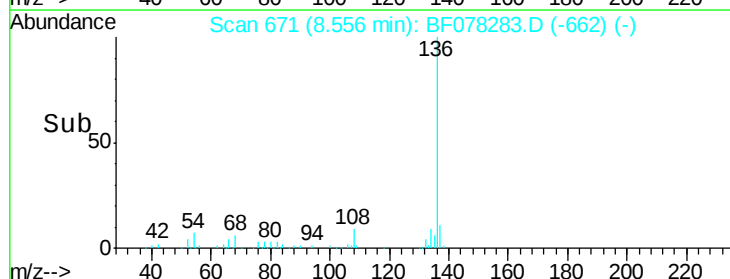


Abundance Ion 136.00 (135.70 to 136.70): E

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

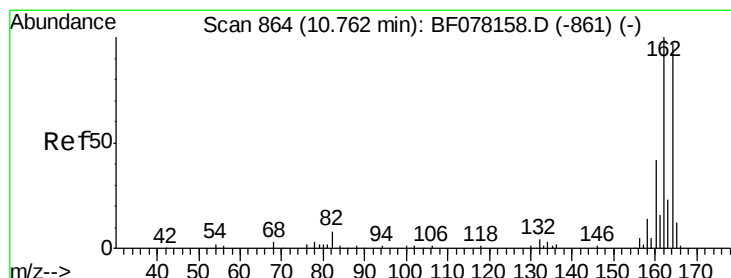
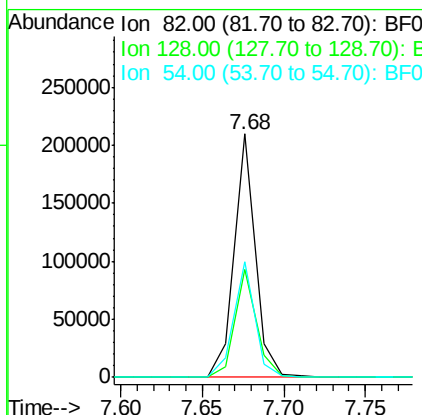
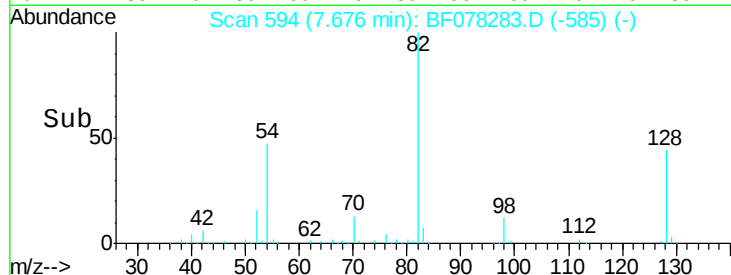
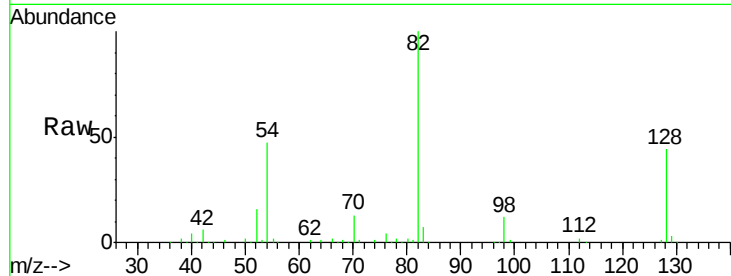




#23  
 Nitrobenzene-d5  
 Concen: 65.22 ng  
 RT: 7.68 min Scan# 594  
 Delta R.T. 0.00 min  
 Lab File: BF078283.D  
 Acq: 7 Apr 2015 5:07

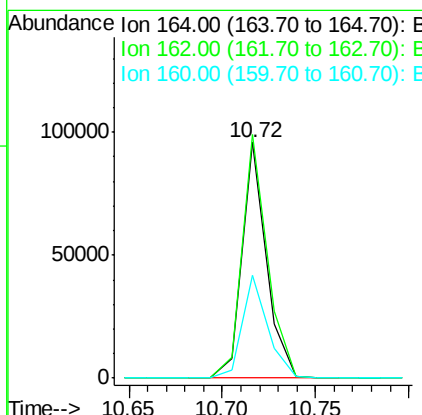
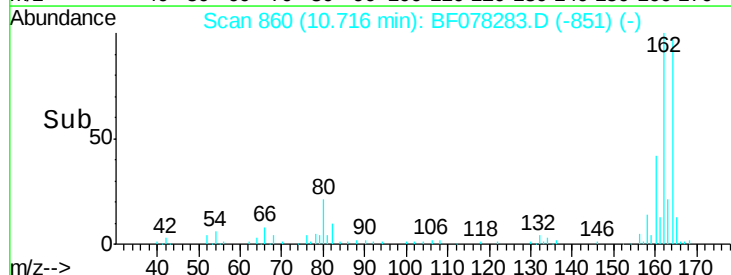
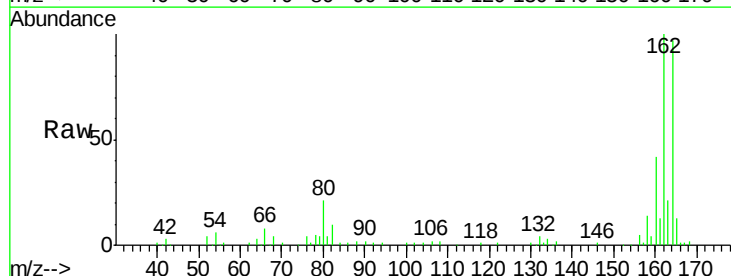
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SW-015

Tgt Ion: 82 Resp: 188340  
 Ion Ratio Lower Upper  
 82 100  
 128 44.2 31.8 47.8  
 54 47.5 41.5 62.3



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.72 min Scan# 860  
 Delta R.T. 0.00 min  
 Lab File: BF078283.D  
 Acq: 7 Apr 2015 5:07

Tgt Ion: 164 Resp: 86724  
 Ion Ratio Lower Upper  
 164 100  
 162 103.3 82.2 123.2  
 160 43.9 34.7 52.1

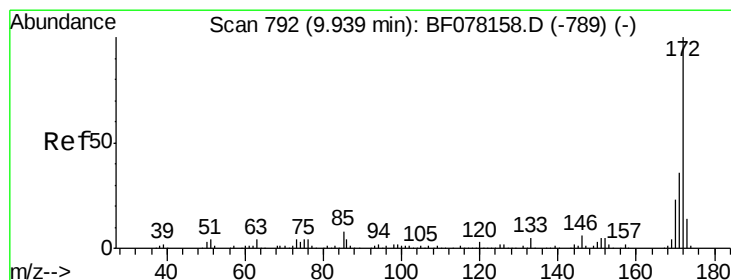
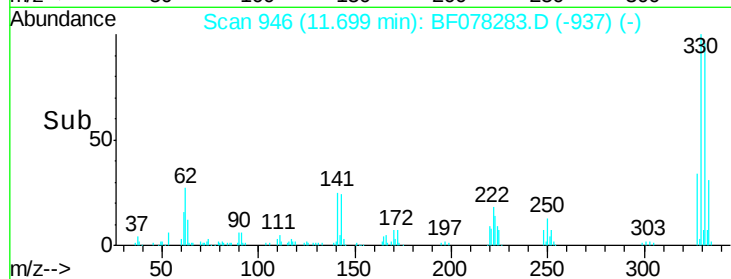
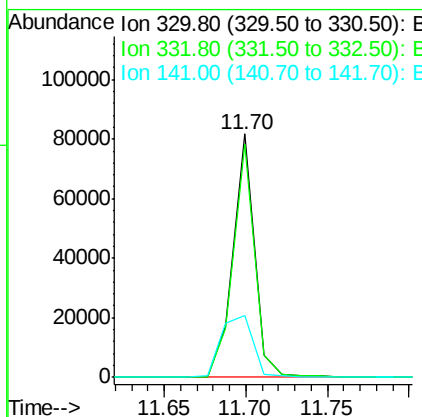
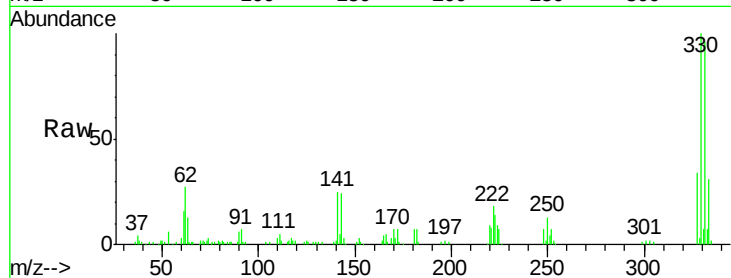




#41  
 2,4,6-Tribromophenol  
 Concen: 104.21 ng  
 RT: 11.70 min Scan# 946  
 Delta R.T. 0.00 min  
 Lab File: BF078283.D  
 Acq: 7 Apr 2015 5:07

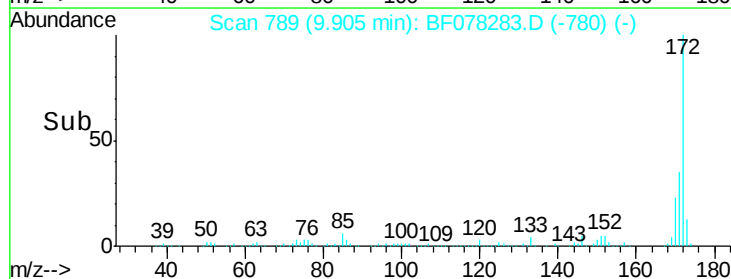
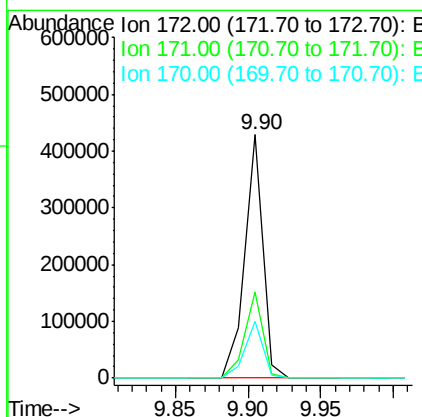
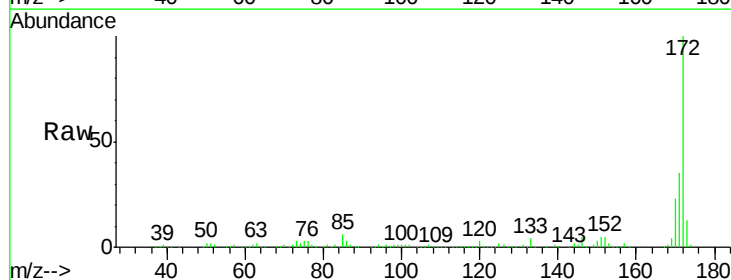
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SW-015

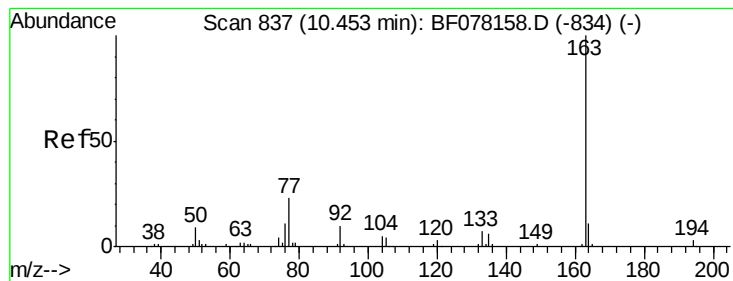
Tgt Ion:330 Resp: 74956  
 Ion Ratio Lower Upper  
 330 100  
 332 95.9 78.6 117.8  
 141 37.7 31.2 46.8



#44  
 2-Fluorobiphenyl  
 Concen: 61.59 ng  
 RT: 9.90 min Scan# 789  
 Delta R.T. 0.00 min  
 Lab File: BF078283.D  
 Acq: 7 Apr 2015 5:07

Tgt Ion:172 Resp: 373699  
 Ion Ratio Lower Upper  
 172 100  
 171 35.2 28.6 42.8  
 170 23.1 18.5 27.7





#49

Dimethylphthalate

Concen: 6.93 ng

RT: 10.42 min Scan# 834

Delta R.T. 0.00 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

Instrument :

BNA\_F

ClientSampleId :

SW-015

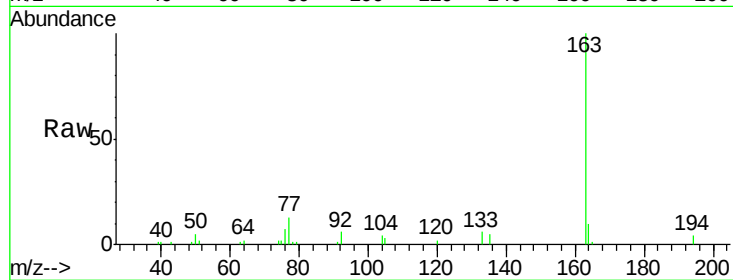
Tgt Ion:163 Resp: 45121

Ion Ratio Lower Upper

163 100

194 4.3 2.3 3.5#

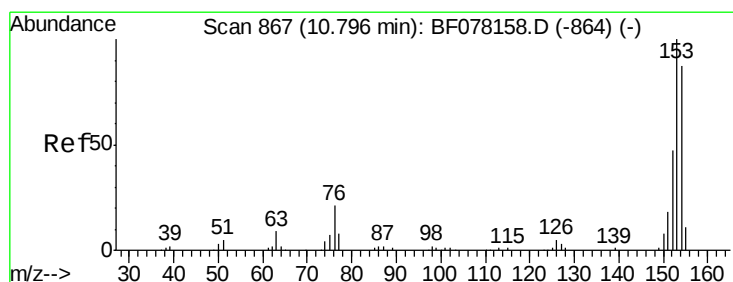
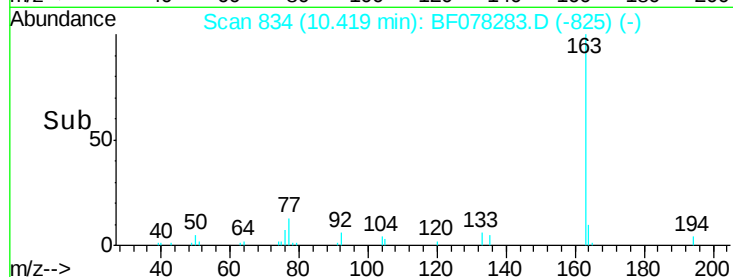
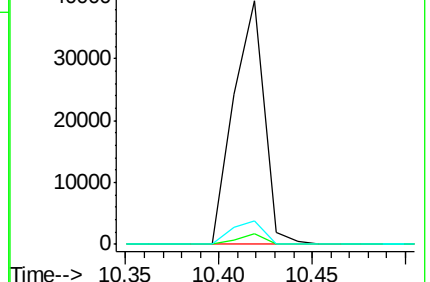
164 9.7 8.6 13.0



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



#51

Acenaphthene

Concen: 5.64 ng

RT: 10.76 min Scan# 864

Delta R.T. 0.00 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

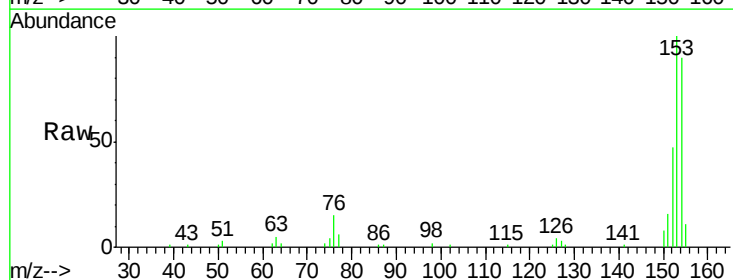
Tgt Ion:154 Resp: 28602

Ion Ratio Lower Upper

154 100

153 111.0 91.4 137.2

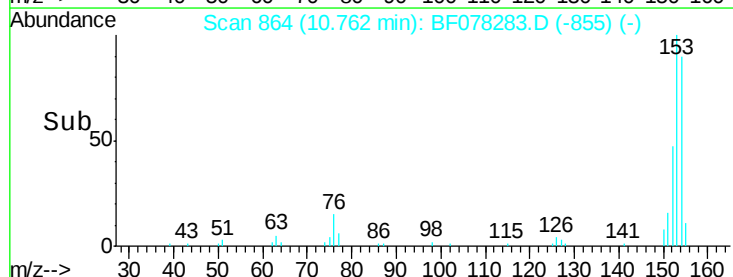
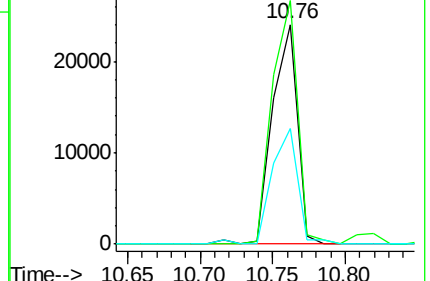
152 52.7 43.0 64.6

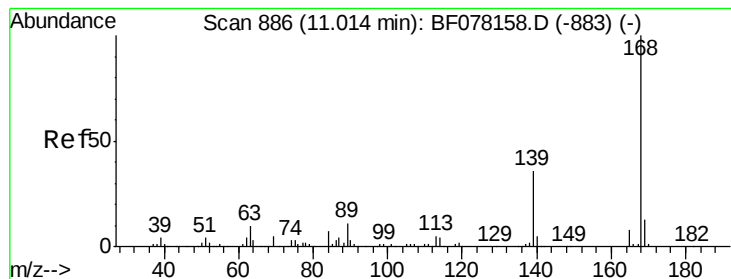


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 2.11 ng

RT: 10.98 min Scan# 883

Delta R.T. 0.01 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

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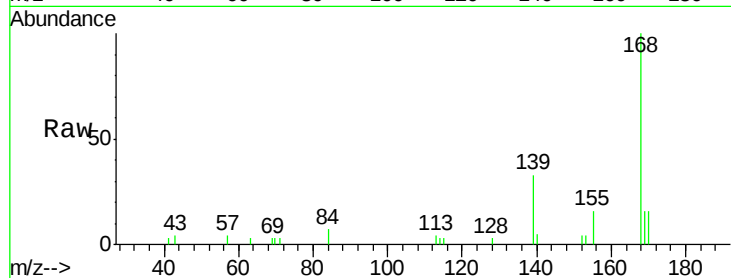
Tgt Ion:168 Resp: 16322

Ion Ratio Lower Upper

168 100

139 32.9 31.0 46.4

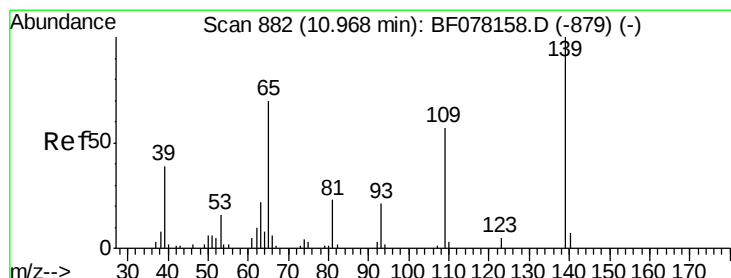
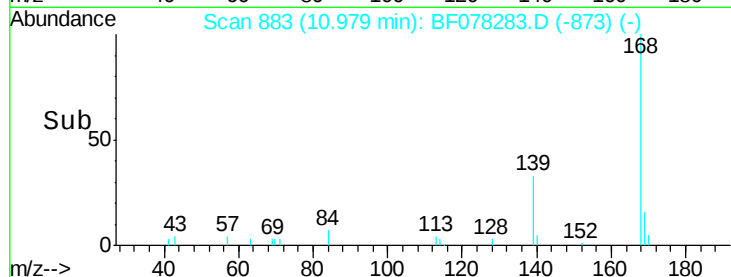
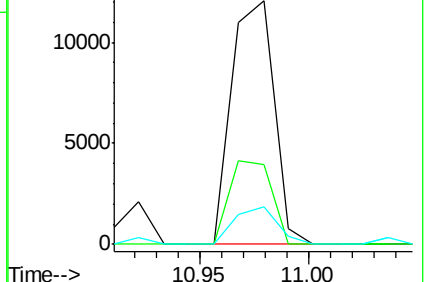
169 15.6 10.7 16.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 7.56 ng

RT: 10.97 min Scan# 882

Delta R.T. 0.03 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

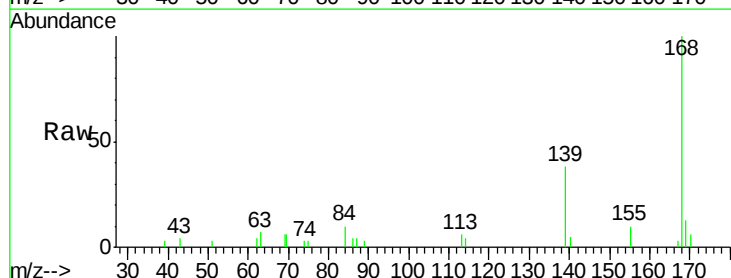
Tgt Ion:139 Resp: 5577

Ion Ratio Lower Upper

139 100

109 0.0 36.7 76.7#

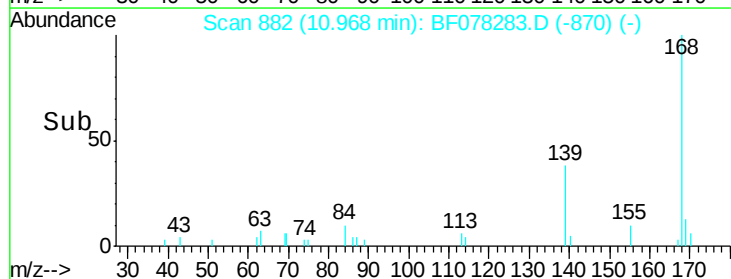
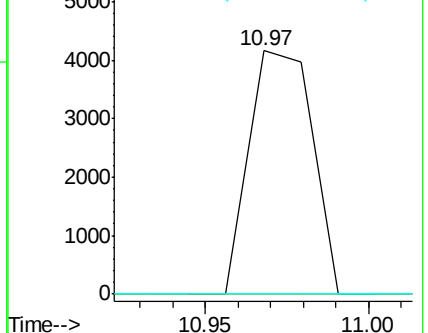
65 0.0 49.9 89.9#

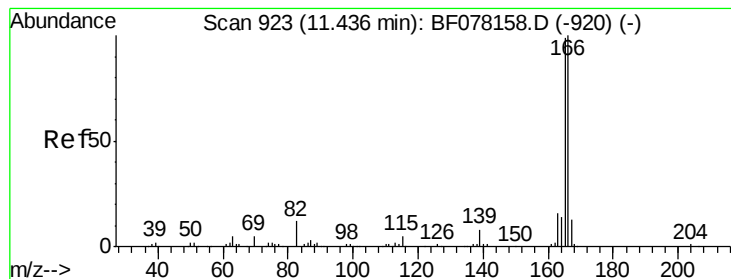


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#57

Fluorene

Concen: 4.53 ng

RT: 11.39 min Scan# 919

Delta R.T. 0.00 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

Instrument :

BNA\_F

ClientSampleId :

SW-015

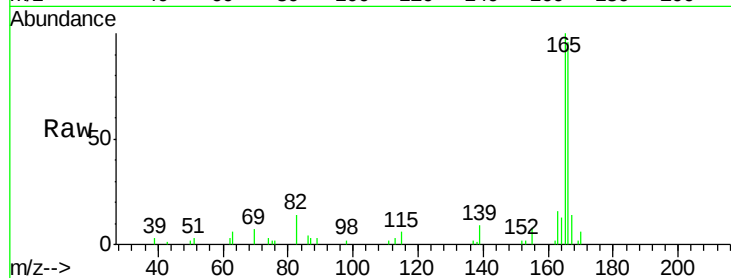
Tgt Ion:166 Resp: 28442

Ion Ratio Lower Upper

166 100

165 103.8 78.9 118.3

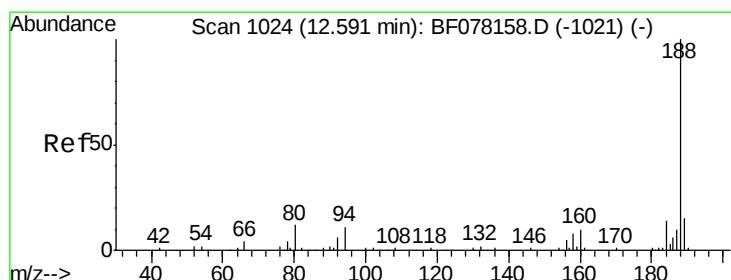
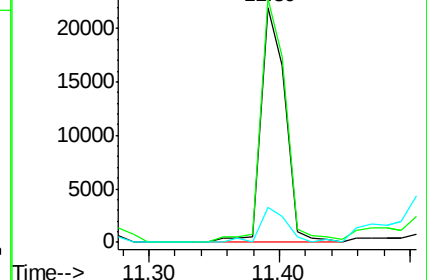
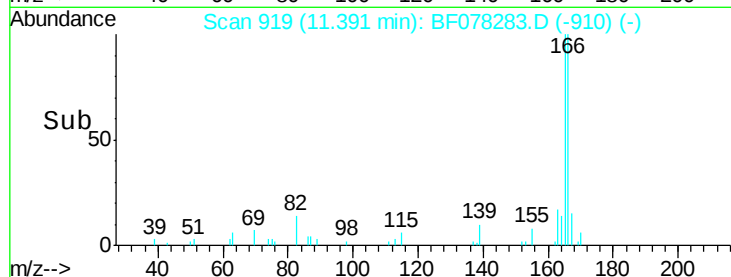
167 15.0 10.7 16.1



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.55 min Scan# 1020

Delta R.T. 0.00 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

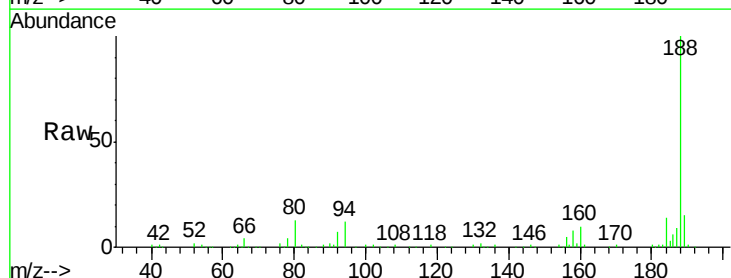
Tgt Ion:188 Resp: 172564

Ion Ratio Lower Upper

188 100

94 11.8 9.0 13.4

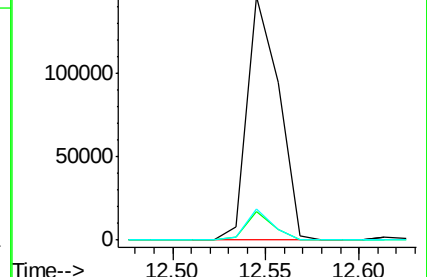
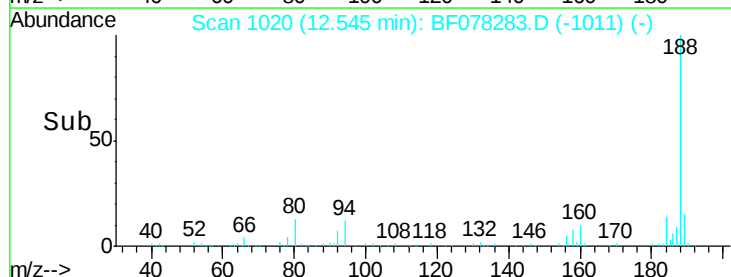
80 12.7 9.5 14.3

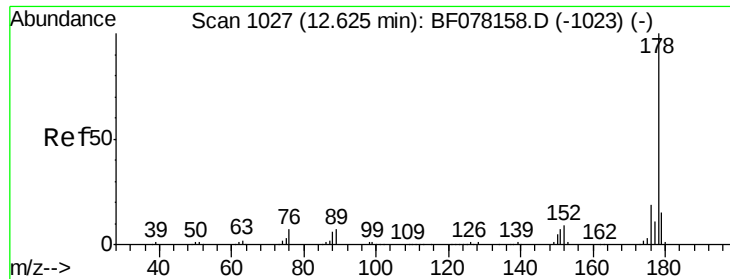


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

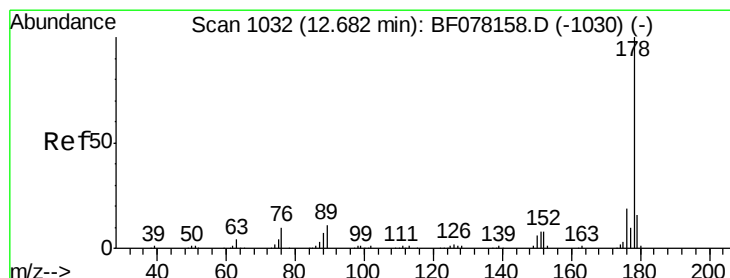
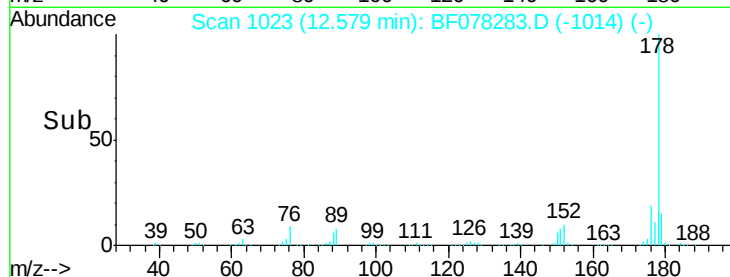
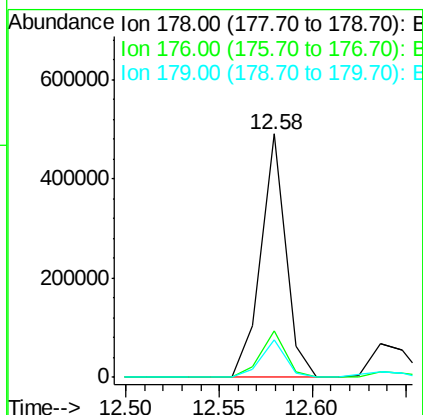
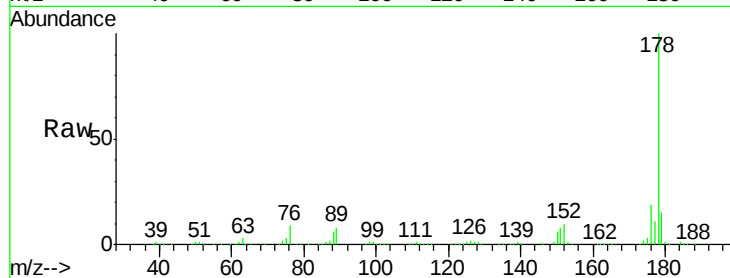




#70  
Phenanthrene  
Concen: 45.64 ng  
RT: 12.58 min Scan# 1023  
Delta R.T. 0.00 min  
Lab File: BF078283.D  
Acq: 7 Apr 2015 5:07

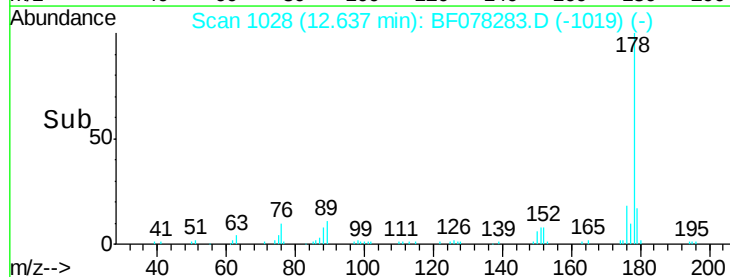
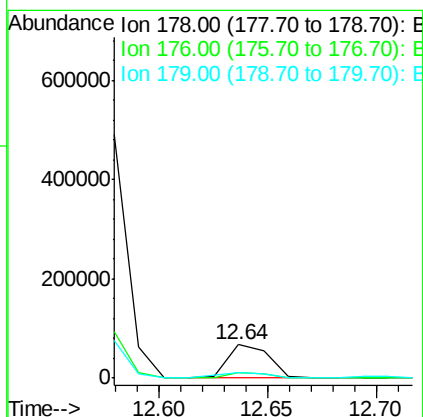
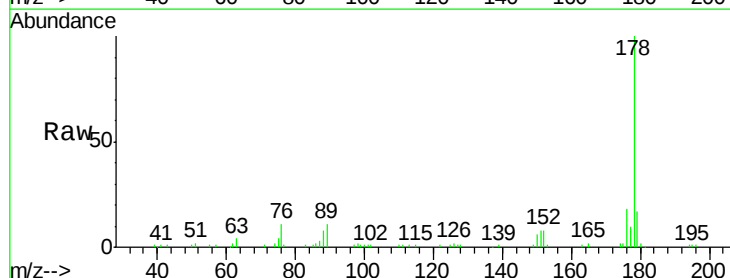
Instrument :  
BNA\_F  
ClientSampleId :  
SW-015

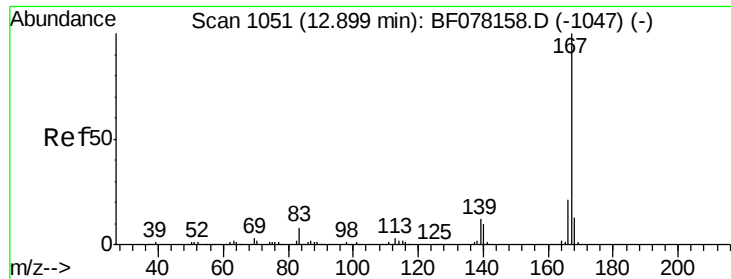
Tgt Ion:178 Resp: 455609  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.0  
179 15.2 12.2 18.2



#71  
Anthracene  
Concen: 8.64 ng  
RT: 12.64 min Scan# 1028  
Delta R.T. 0.00 min  
Lab File: BF078283.D  
Acq: 7 Apr 2015 5:07

Tgt Ion:178 Resp: 84995  
Ion Ratio Lower Upper  
178 100  
176 17.8 14.8 22.2  
179 17.3 12.4 18.6

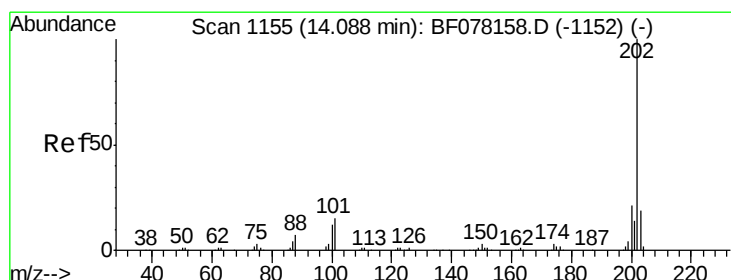
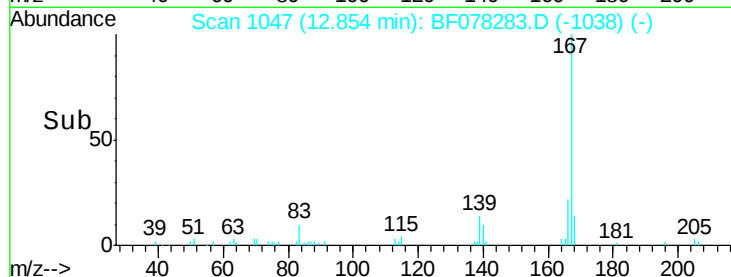
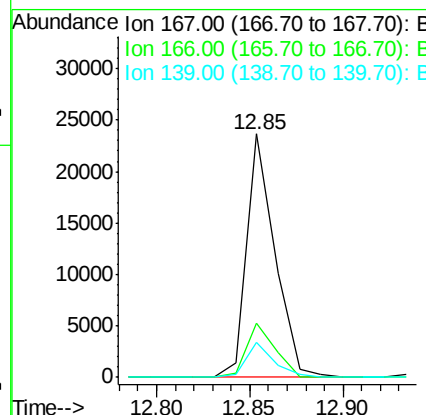
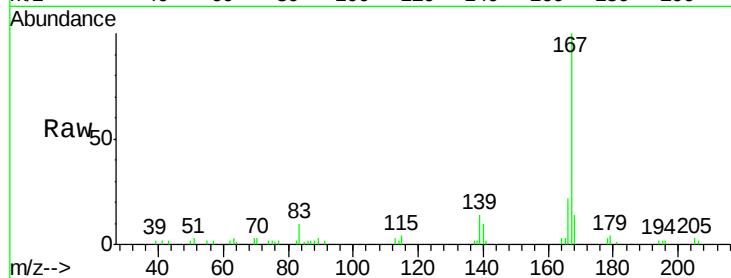




#72  
 Carbazole  
 Concen: 2.70 ng  
 RT: 12.85 min Scan# 1047  
 Delta R.T. 0.00 min  
 Lab File: BF078283.D  
 Acq: 7 Apr 2015 5:07

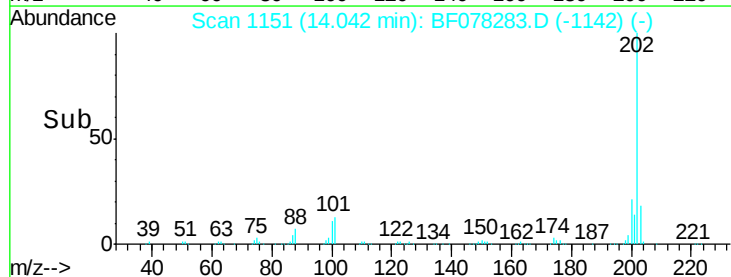
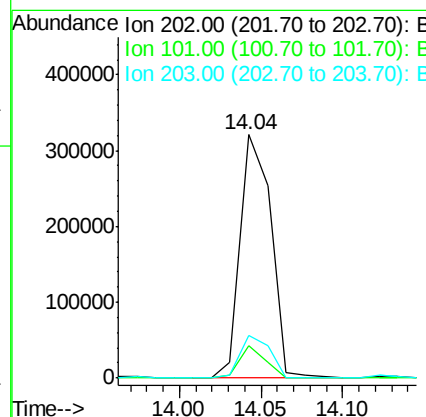
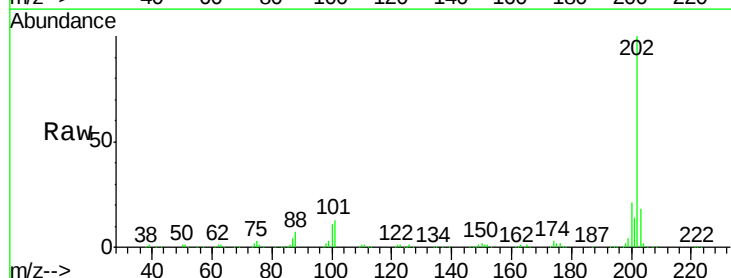
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SW-015

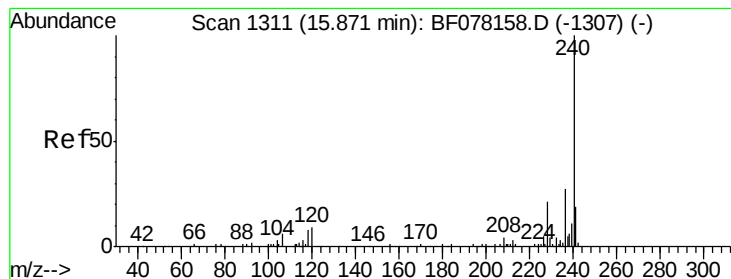
Tgt Ion:167 Resp: 24887  
 Ion Ratio Lower Upper  
 167 100  
 166 22.1 16.8 25.2  
 139 14.3 10.0 15.0



#74  
 Fluoranthene  
 Concen: 39.47 ng  
 RT: 14.04 min Scan# 1151  
 Delta R.T. 0.00 min  
 Lab File: BF078283.D  
 Acq: 7 Apr 2015 5:07

Tgt Ion:202 Resp: 415521  
 Ion Ratio Lower Upper  
 202 100  
 101 13.4 0.0 35.2  
 203 17.8 0.0 38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.81 min Scan# 1306

Delta R.T. 0.00 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

Instrument :

BNA\_F

ClientSampleId :

SW-015

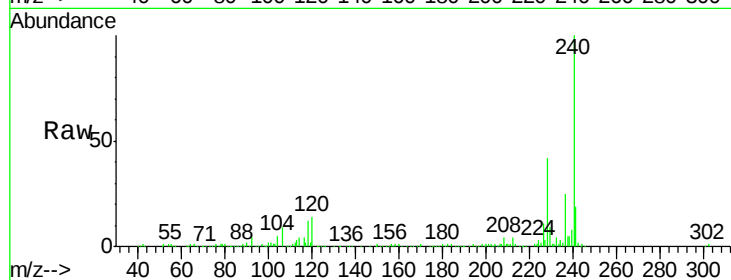
Tgt Ion:240 Resp: 183828

Ion Ratio Lower Upper

240 100

120 13.8 7.1 10.7#

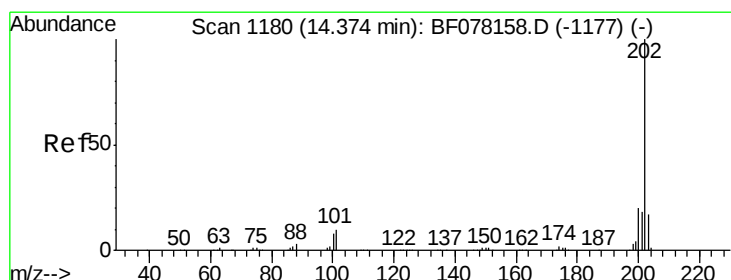
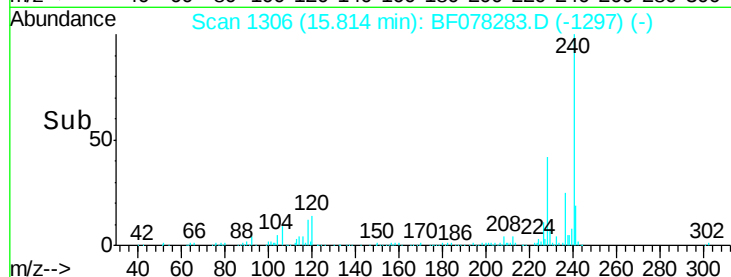
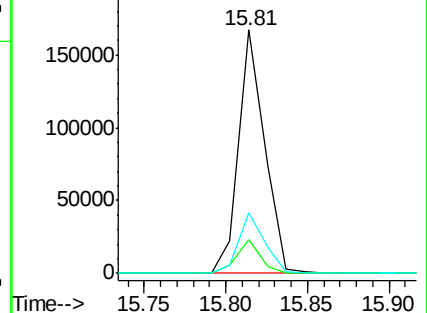
236 24.8 21.4 32.2



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: 37.76 ng

RT: 14.33 min Scan# 1176

Delta R.T. 0.01 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

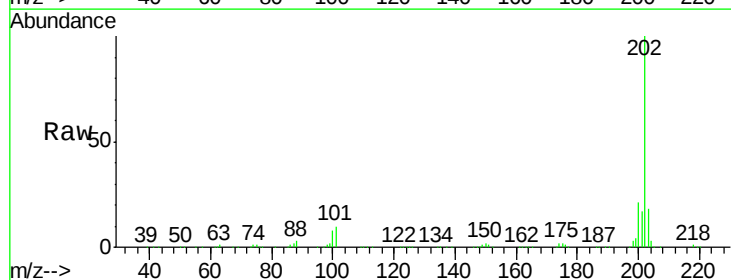
Tgt Ion:202 Resp: 435773

Ion Ratio Lower Upper

202 100

200 20.9 16.3 24.5

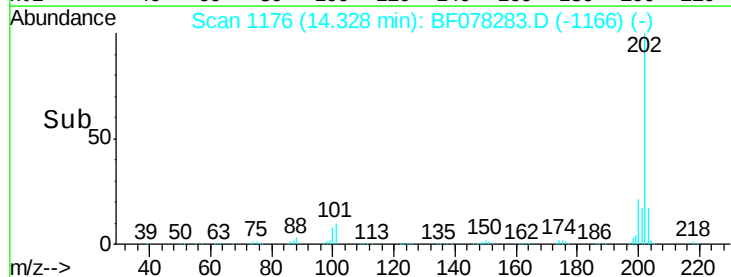
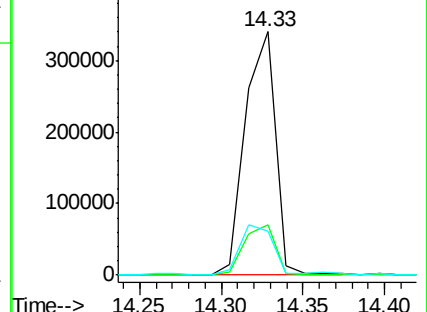
203 17.9 13.8 20.6

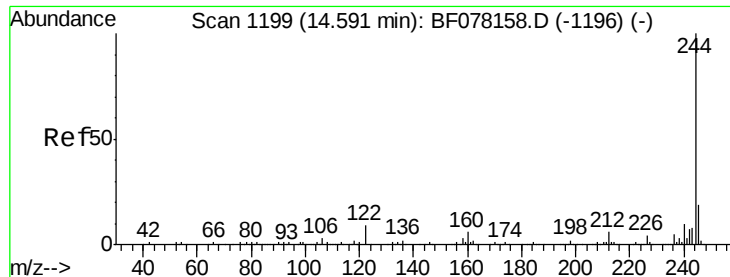


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 48.70 ng

RT: 14.55 min Scan# 1195

Delta R.T. 0.00 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

Instrument :

BNA\_F

ClientSampleId :

SW-015

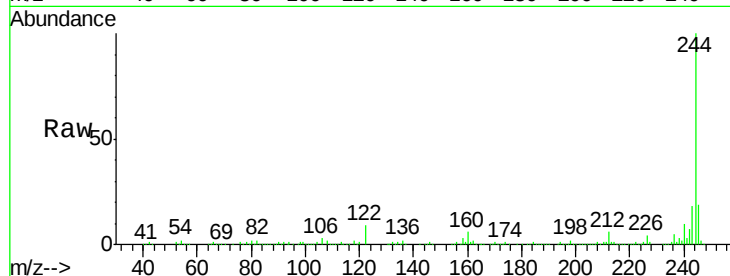
Tgt Ion:244 Resp: 396149

Ion Ratio Lower Upper

244 100

212 6.4 5.0 7.4

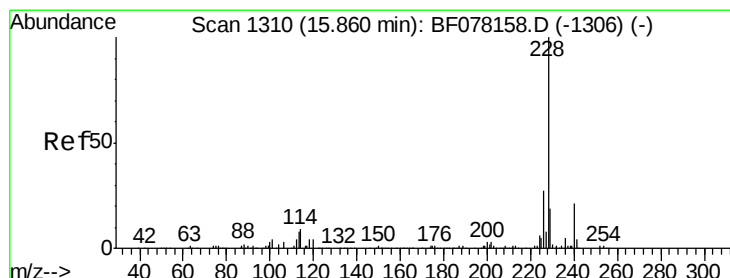
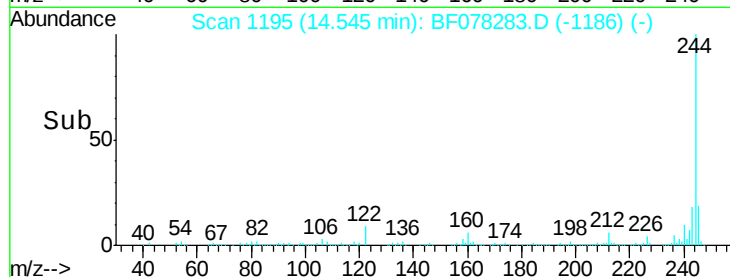
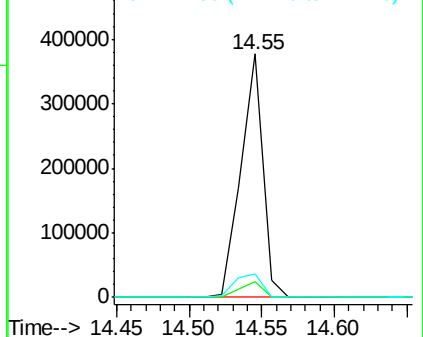
122 9.4 7.1 10.7



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: 18.14 ng

RT: 15.80 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

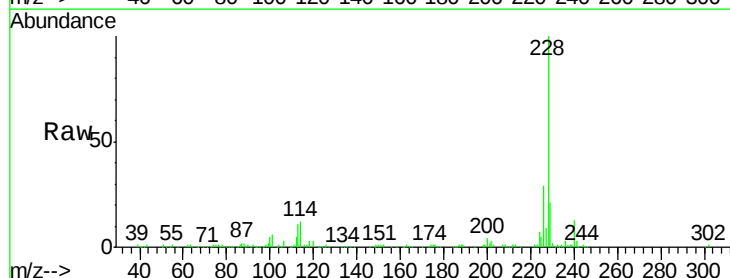
Tgt Ion:228 Resp: 198436

Ion Ratio Lower Upper

228 100

226 29.1 21.3 31.9

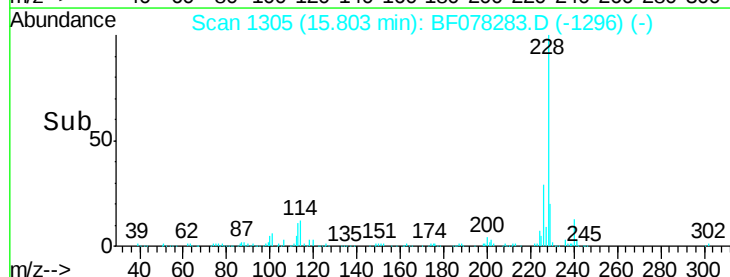
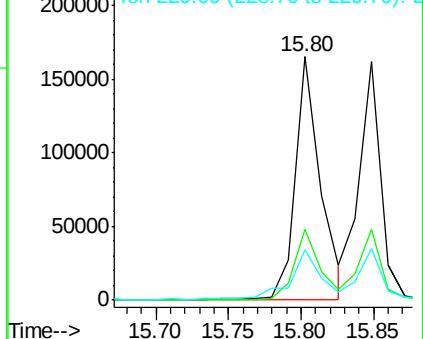
229 20.7 15.4 23.2

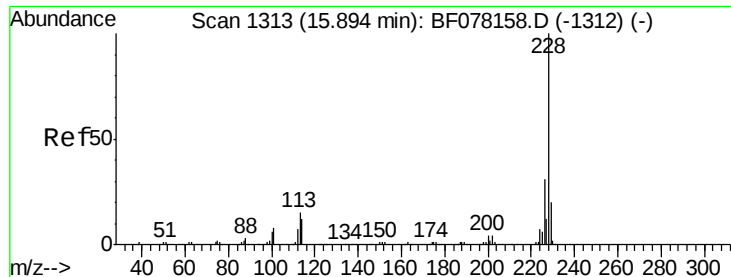


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 16.13 ng

RT: 15.85 min Scan# 1309

Delta R.T. 0.00 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

Instrument :

BNA\_F

ClientSampleId :

SW-015

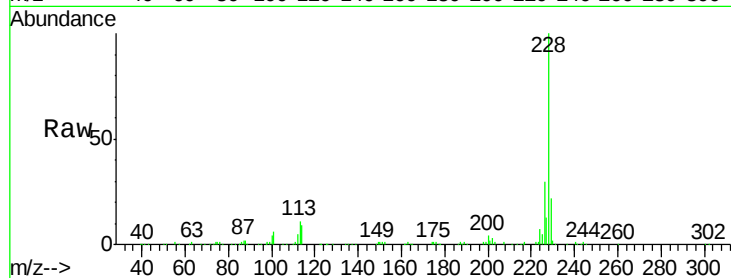
Tgt Ion:228 Resp: 165707

Ion Ratio Lower Upper

228 100

226 29.8 24.2 36.4

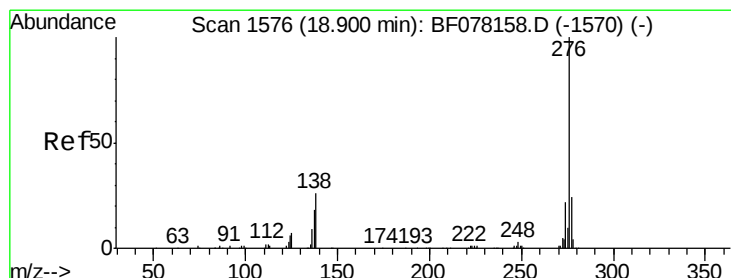
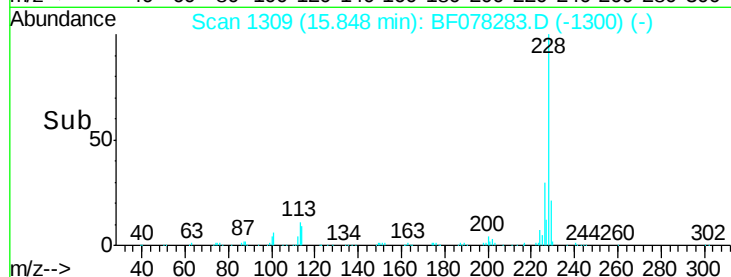
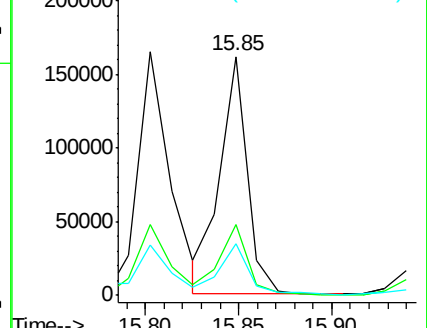
229 21.5 15.8 23.8



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.07 ng

RT: 18.76 min Scan# 1564

Delta R.T. 0.01 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

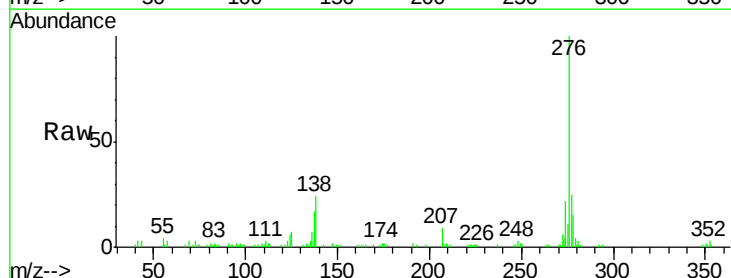
Tgt Ion:276 Resp: 82466

Ion Ratio Lower Upper

276 100

138 25.5 16.9 25.3#

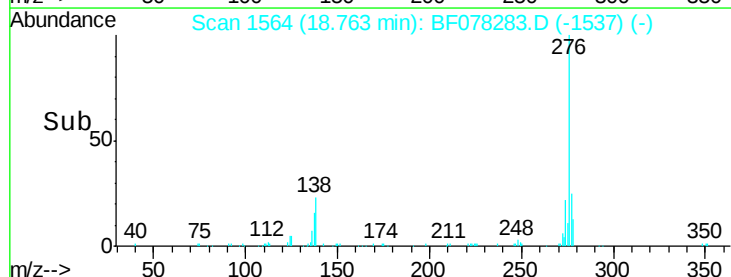
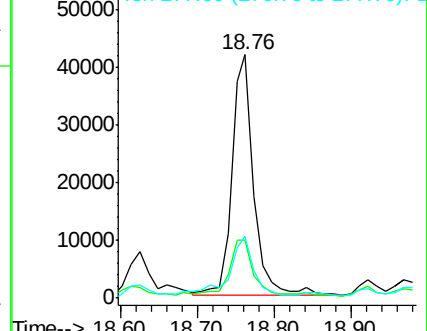
277 27.3 15.8 23.6#

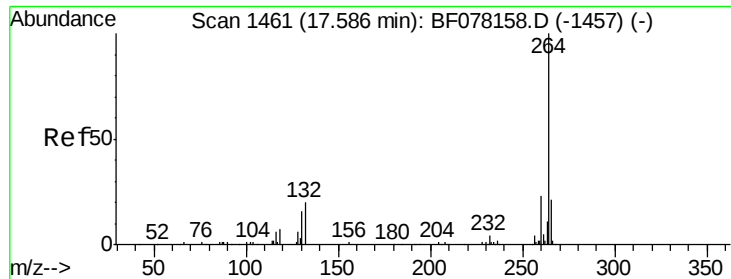


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

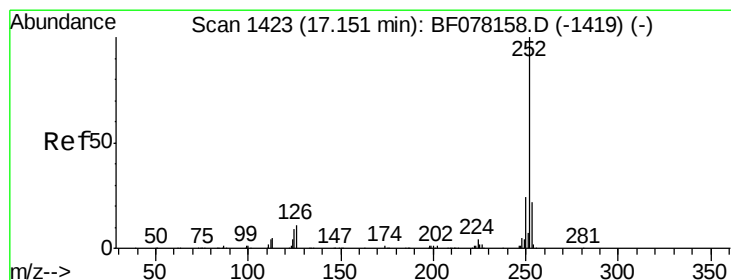
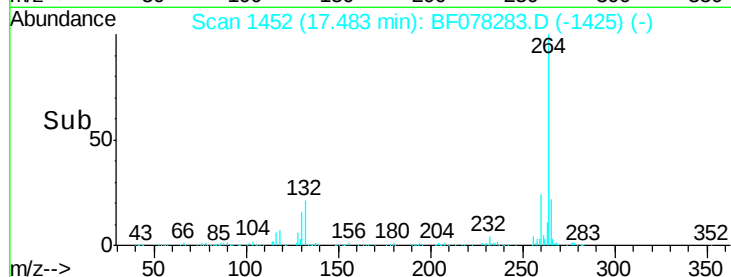
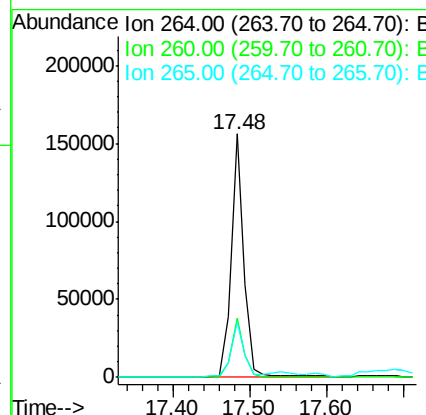
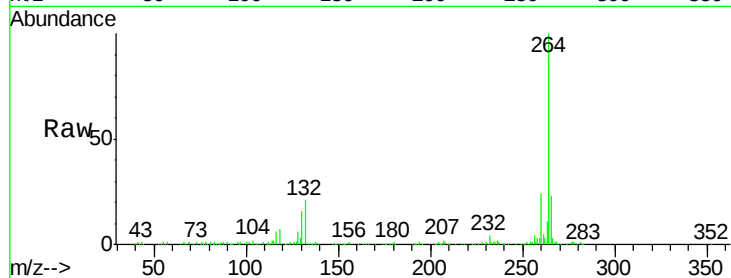




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 17.48 min Scan# 1452  
Delta R.T. 0.01 min  
Lab File: BF078283.D  
Acq: 7 Apr 2015 5:07

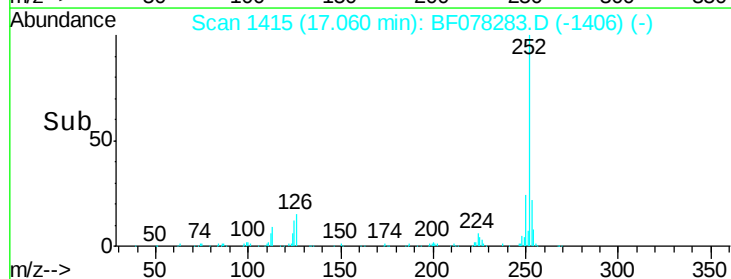
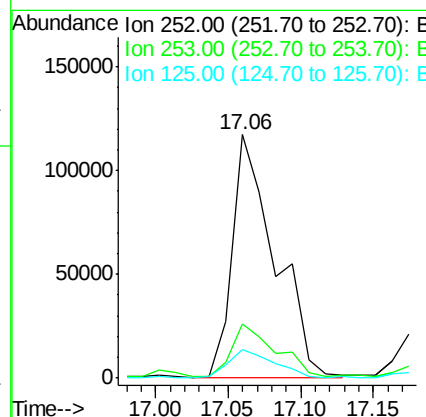
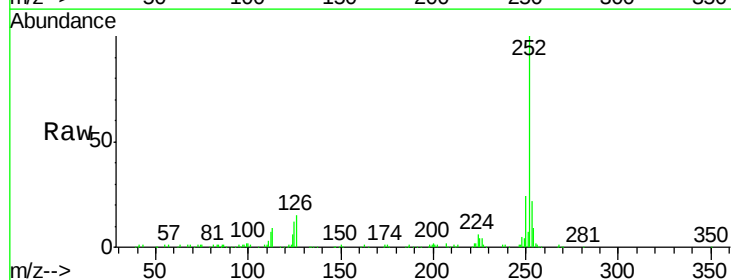
Instrument :  
BNA\_F  
ClientSampleId :  
SW-015

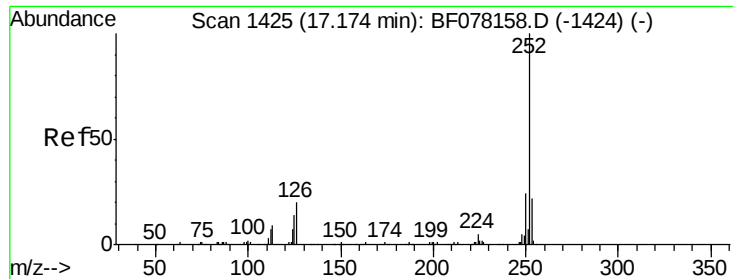
Tgt Ion:264 Resp: 185183  
Ion Ratio Lower Upper  
264 100  
260 24.1 18.6 27.8  
265 22.5 17.0 25.6



#87  
Benzo(b)fluoranthene  
Concen: 20.87 ng  
RT: 17.06 min Scan# 1415  
Delta R.T. 0.00 min  
Lab File: BF078283.D  
Acq: 7 Apr 2015 5:07

Tgt Ion:252 Resp: 238809  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.2 25.8  
125 11.8 7.0 10.4#

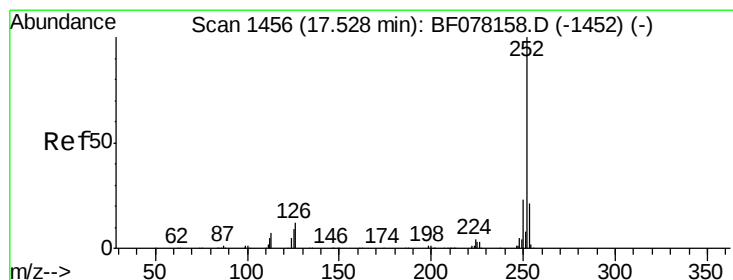
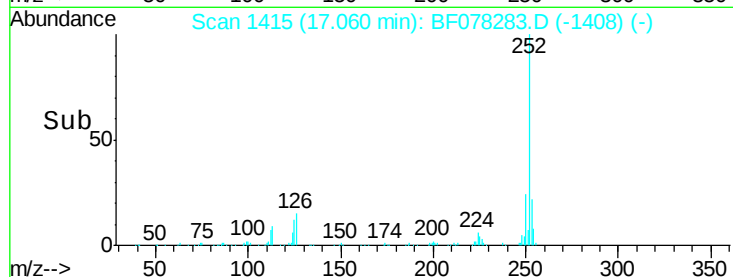
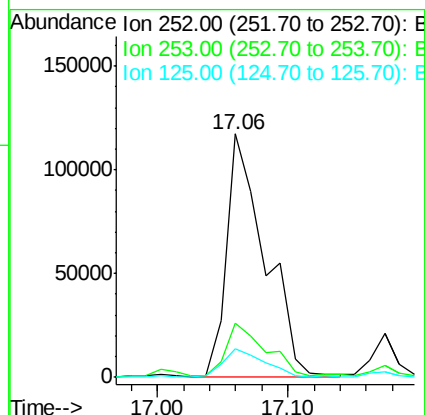
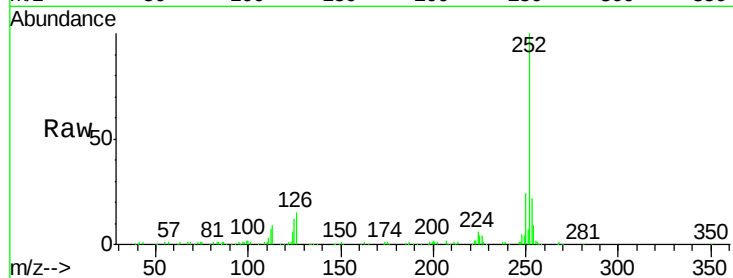




#88  
Benzo(k)fluoranthene  
Concen: 23.54 ng  
RT: 17.06 min Scan# 1415  
Delta R.T. -0.02 min  
Lab File: BF078283.D  
Acq: 7 Apr 2015 5:07

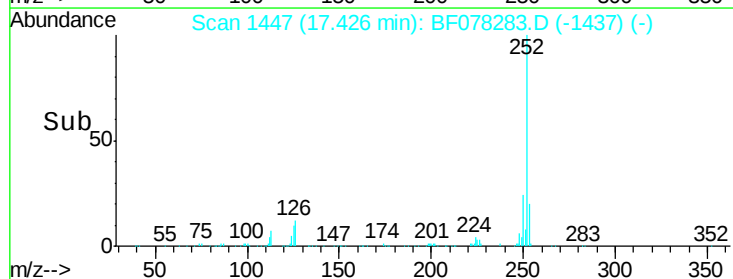
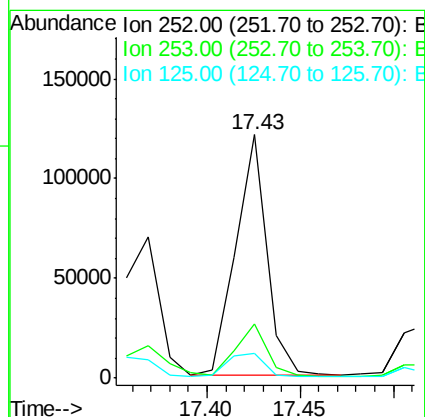
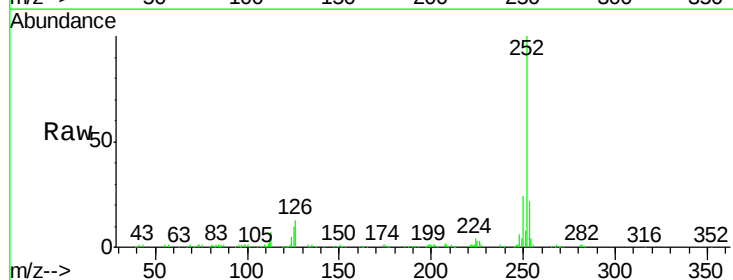
Instrument :  
BNA\_F  
ClientSampleId :  
SW-015

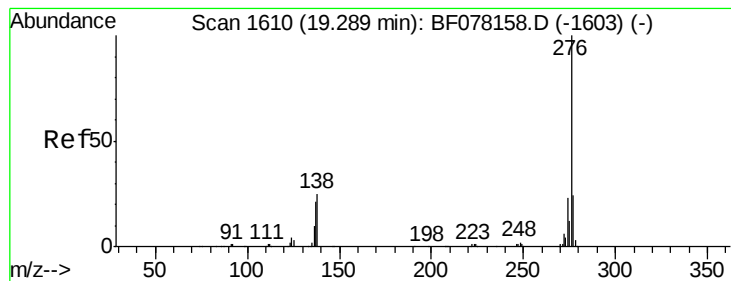
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 17.5  | 26.3  |
| 125     | 11.8  | 11.6  | 17.4  |



#89  
Benzo(a)pyrene  
Concen: 14.01 ng  
RT: 17.43 min Scan# 1447  
Delta R.T. 0.01 min  
Lab File: BF078283.D  
Acq: 7 Apr 2015 5:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 16.8  | 25.2  |
| 125     | 10.4  | 7.4   | 11.0  |





#91

Benzo(g,h,i)perylene

Concen: 7.93 ng

RT: 19.13 min Scan# 1596

Delta R.T. 0.00 min

Lab File: BF078283.D

Acq: 7 Apr 2015 5:07

Instrument :

BNA\_F

ClientSampleId :

SW-015

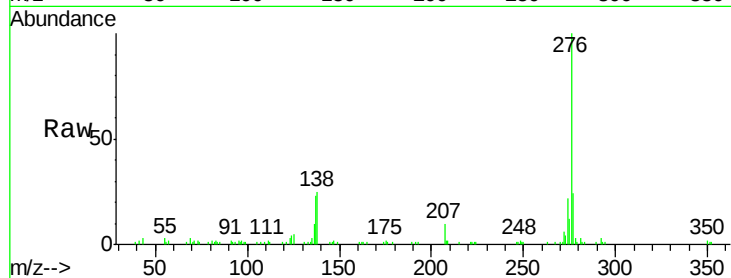
Tgt Ion: 276 Resp: 79542

Ion Ratio Lower Upper

276 100

277 24.0 19.0 28.4

138 25.2 19.9 29.9



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

