

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051515\  
 Data File : BF079305.D  
 Acq On : 16 May 2015 10:34  
 Operator : TP/IZ  
 Sample : G2250-07 2X  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-04-D1

Quant Time: May 18 01:01:00 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 15 01:57:52 2015  
 Response via : Initial Calibration

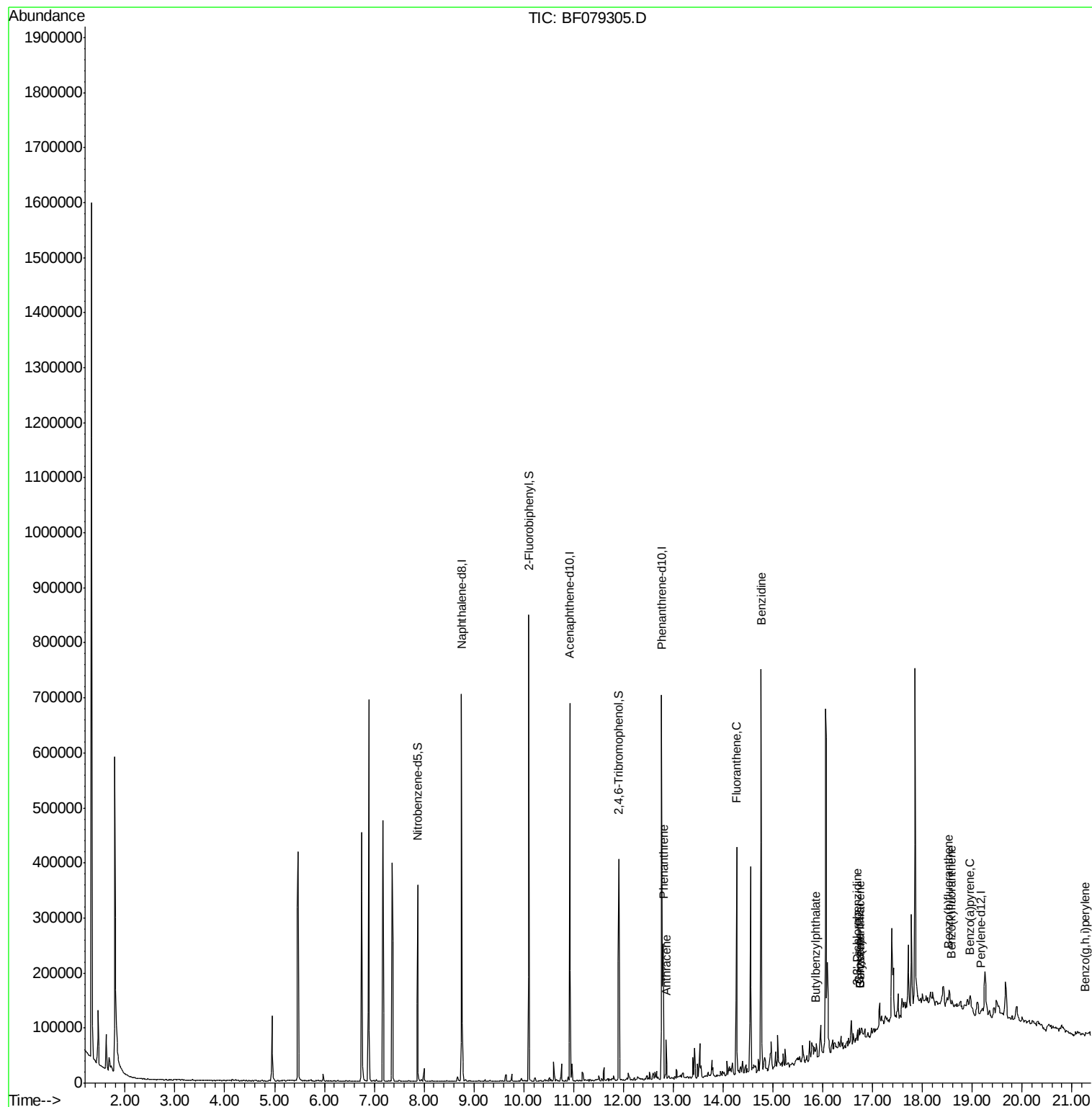
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 0.00  | 152  | 0        | 0.00  | ng    | -7.22     |
| 21) Naphthalene-d8          | 8.75  | 136  | 301544   | 20.00 | ng    | -0.05     |
| 38) Acenaphthene-d10        | 10.92 | 164  | 142092   | 20.00 | ng    | -0.05     |
| 63) Phenanthrene-d10        | 12.77 | 188  | 264865   | 20.00 | ng    | -0.06     |
| 75) Chrysene-d12            | 16.73 | 240  | 10239    | 20.00 | ng    | 0.23      |
| 86) Perylene-d12            | 19.17 | 264  | 232      | 20.00 | ng    | 0.29      |
| System Monitoring Compounds |       |      |          |       |       |           |
| 5) 2-Fluorophenol           | 0.00  | 112  | 0        | 0.00  | ng    |           |
| 7) Phenol-d6                | 0.00  | 99   | 0        | 0.00  | ng    |           |
| 23) Nitrobenzene-d5         | 7.87  | 82   | 120502   | 22.97 | ng    | -0.05     |
| 41) 2,4,6-Tribromophenol    | 11.91 | 330  | 59107    | 38.45 | ng    | -0.05     |
| 44) 2-Fluorobiphenyl        | 10.10 | 172  | 261641   | 25.65 | ng    | -0.05     |
| 78) Terphenyl-d14           | 0.00  | 244  | 0        | 0.00  | ng    |           |
| Target Compounds            |       |      |          |       |       |           |
| 70) Phenanthrene            | 12.80 | 178  | 124308   | 8.39  | ng    | Qvalue 96 |
| 71) Anthracene              | 12.86 | 178  | 31121    | 2.14  | ng    | 98        |
| 74) Fluoranthene            | 14.27 | 202  | 179358   | 11.62 | ng    | 95        |
| 76) Benzidine               | 14.77 | 184  | 3890     | 14.10 | ng    | # 89      |
| 79) Butylbenzylphthalate    | 15.86 | 149  | 756      | 2.93  | ng    | # 1       |
| 80) Benzo(a)anthracene      | 16.75 | 228  | 1718     | 3.06  | ng    | # 1       |
| 81) 3,3'-Dichlorobenzidine  | 16.70 | 252  | 1472     | 7.37  | ng    | # 1       |
| 82) Chrysene                | 16.75 | 228  | 1718     | 3.19  | ng    | # 1       |
| 87) Benzo(b)fluoranthene    | 18.53 | 252  | 503      | 39.61 | ng    | # 1       |
| 88) Benzo(k)fluoranthene    | 18.57 | 252  | 179      | 14.56 | ng    | # 1       |
| 89) Benzo(a)pyrene          | 18.95 | 252  | 682      | 58.33 | ng    | # 1       |
| 91) Benzo(g,h,i)perylene    | 21.26 | 276  | 297      | 23.85 | ng    | # 55      |

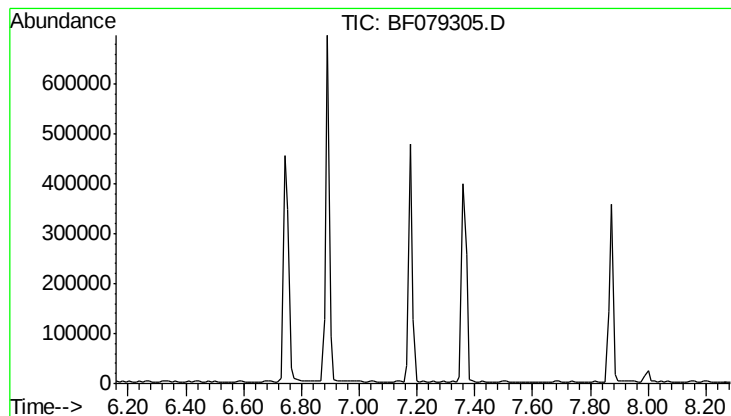
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.00 ng

Expected RT: 7.22 min

Lab File: BF079305.D

Acq: 16 May 2015 10:34

Instrument :

BNA\_F

ClientSampleId :

WC-04-D1

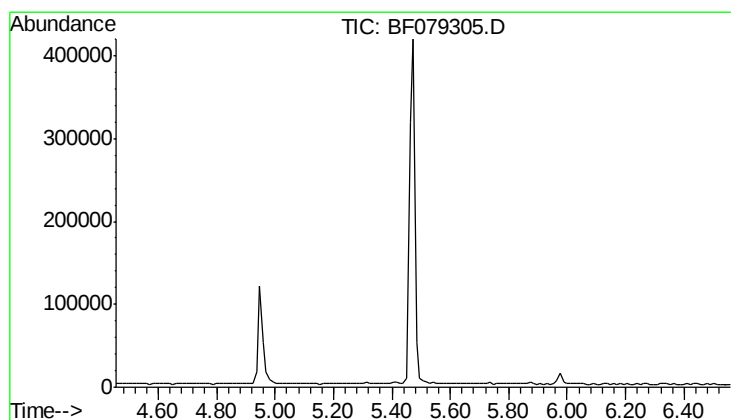
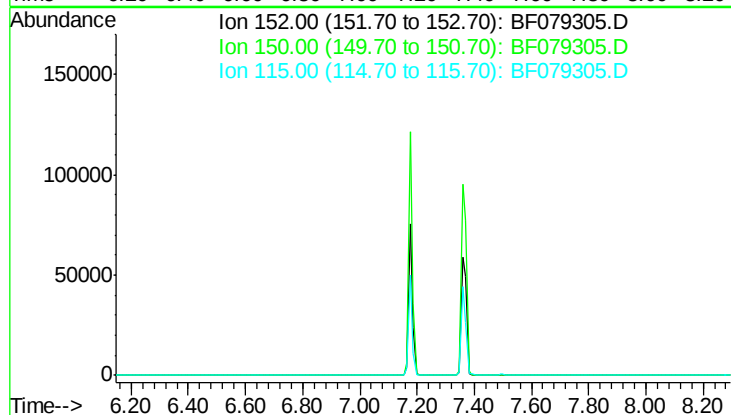
Tgt Ion: 152

Sig Exp Ratio

152 100

150 154.8

115 61.7



#5

2-Fluorophenol

Concen: 0.00 ng

Expected RT: 5.51 min

Lab File: BF079305.D

Acq: 16 May 2015 10:34

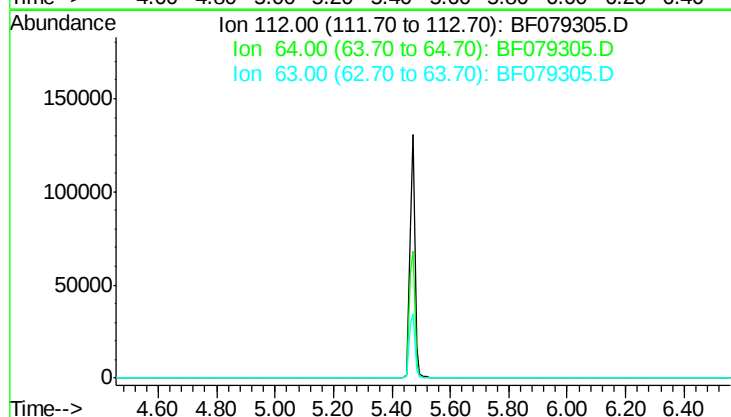
Tgt Ion: 112

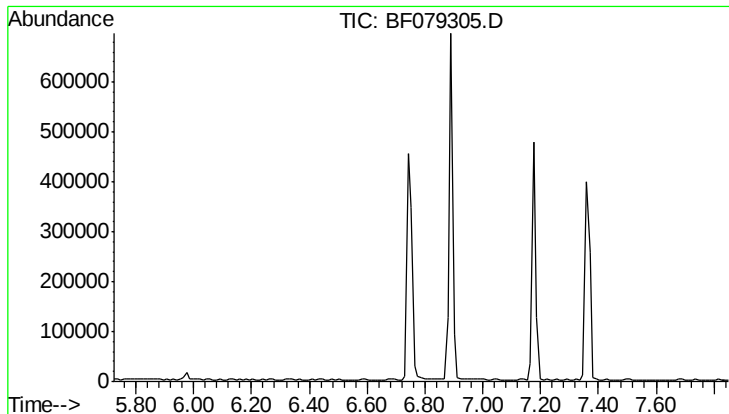
Sig Exp Ratio

112 100

64 55.2

63 28.4





#7

Phenol-d6

Concen: 0.00 ng

Expected RT: 6.79 min

Lab File: BF079305.D

Acq: 16 May 2015 10:34

Instrument :

BNA\_F

ClientSampleId :

WC-04-D1

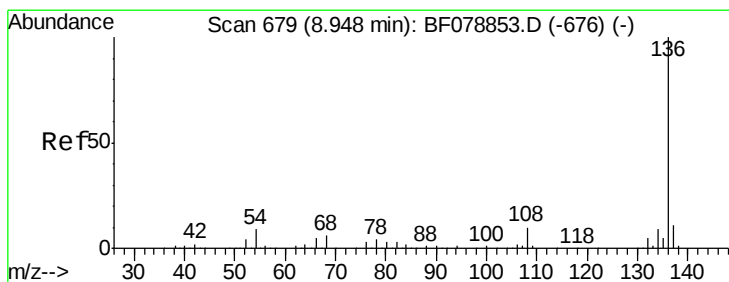
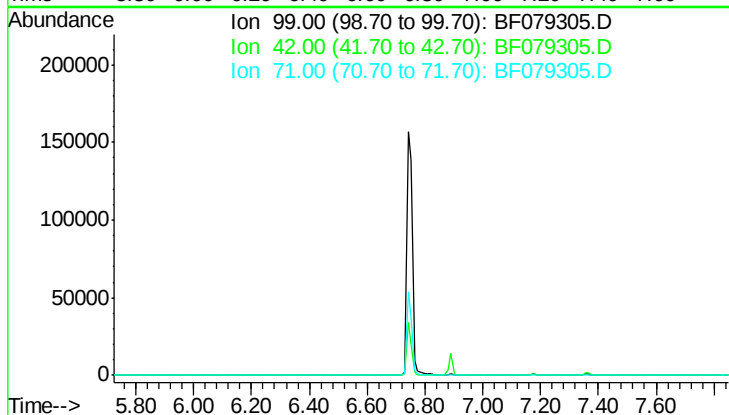
Tgt Ion: 99

Sig Exp Ratio

99 100

42 21.4

71 32.9



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.75 min Scan# 662

Delta R.T. -0.05 min

Lab File: BF079305.D

Acq: 16 May 2015 10:34

Tgt Ion:136 Resp: 301544

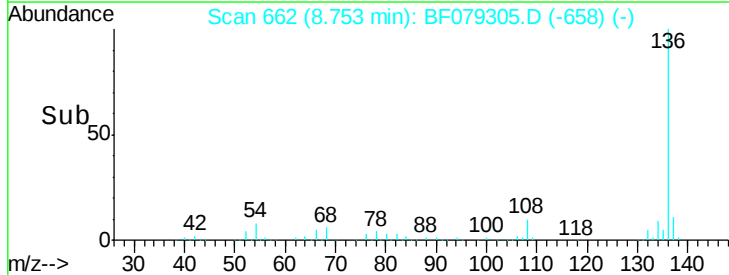
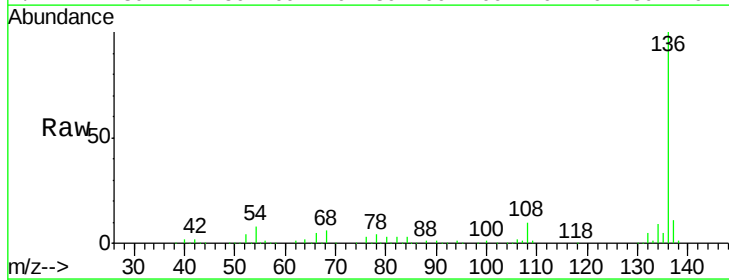
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 8.1 6.9 10.3

68 5.9 4.9 7.3

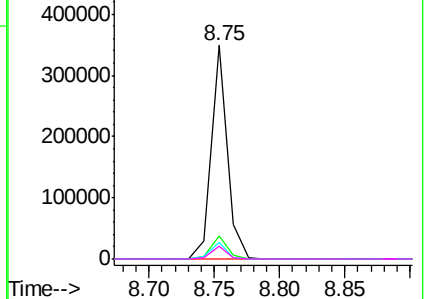


Abundance Ion 136.00 (135.70 to 136.70): E

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

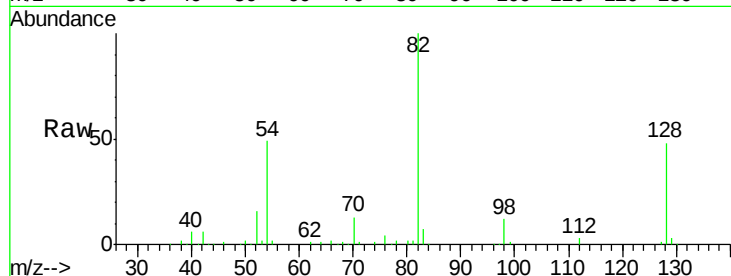




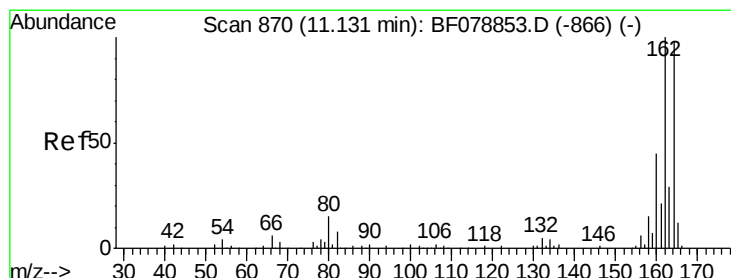
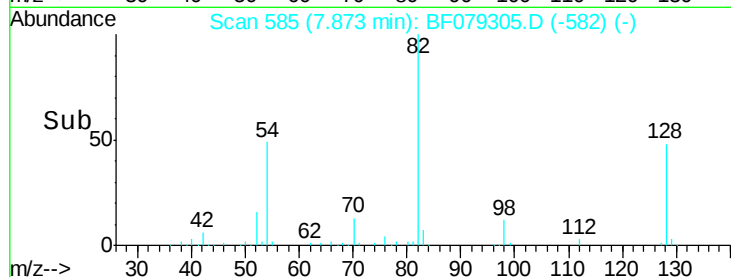
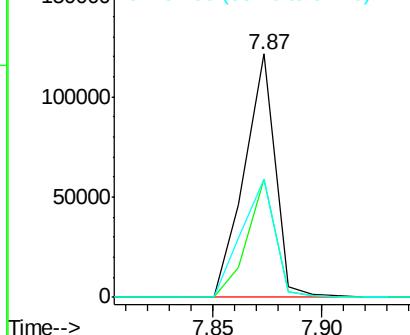
#23  
 Nitrobenzene-d5  
 Concen: 22.97 ng  
 RT: 7.87 min Scan# 585  
 Delta R.T. -0.05 min  
 Lab File: BF079305.D  
 Acq: 16 May 2015 10:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-04-D1

Tgt Ion: 82 Resp: 120502  
 Ion Ratio Lower Upper  
 82 100  
 128 48.5 29.7 44.5#  
 54 48.7 46.2 69.4

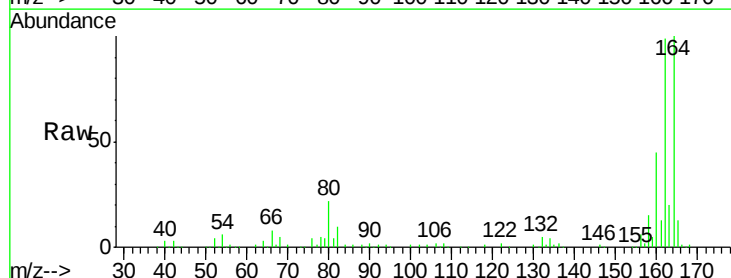


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

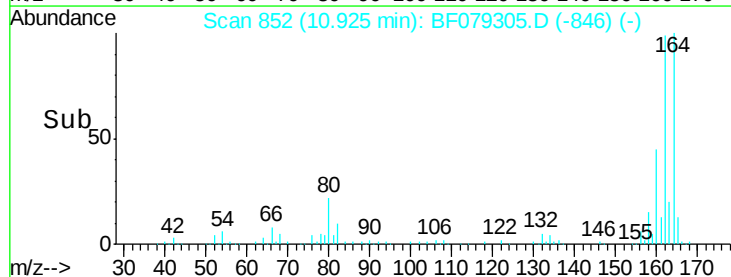
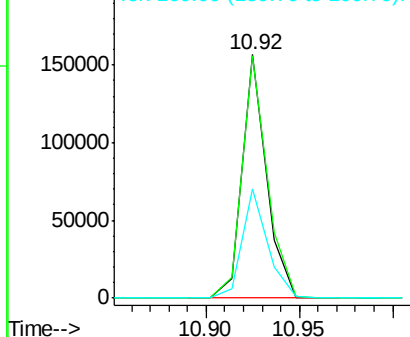


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.92 min Scan# 852  
 Delta R.T. -0.05 min  
 Lab File: BF079305.D  
 Acq: 16 May 2015 10:34

Tgt Ion: 164 Resp: 142092  
 Ion Ratio Lower Upper  
 164 100  
 162 99.5 81.4 122.0  
 160 44.7 36.6 54.8



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

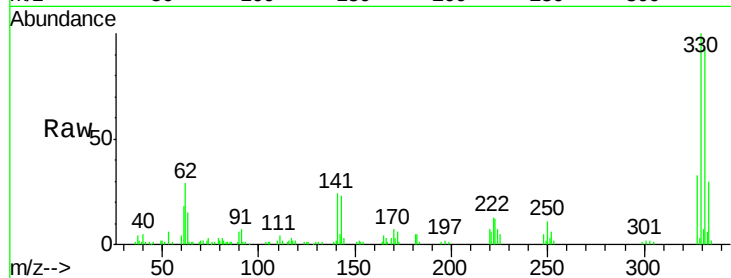




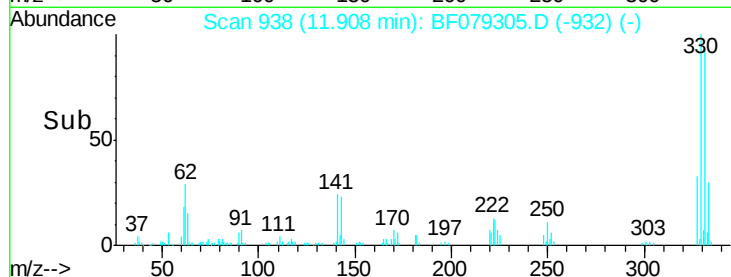
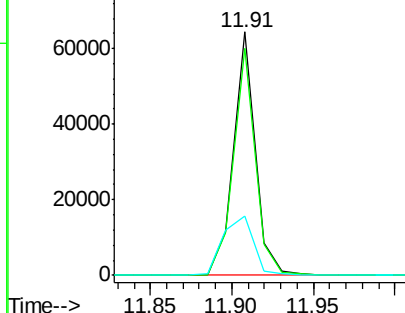
#41  
 2,4,6-Tribromophenol  
 Concen: 38.45 ng  
 RT: 11.91 min Scan# 938  
 Delta R.T. -0.05 min  
 Lab File: BF079305.D  
 Acq: 16 May 2015 10:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-04-D1

Tgt Ion:330 Resp: 59107  
 Ion Ratio Lower Upper  
 330 100  
 332 93.7 76.9 115.3  
 141 34.1 27.8 41.8

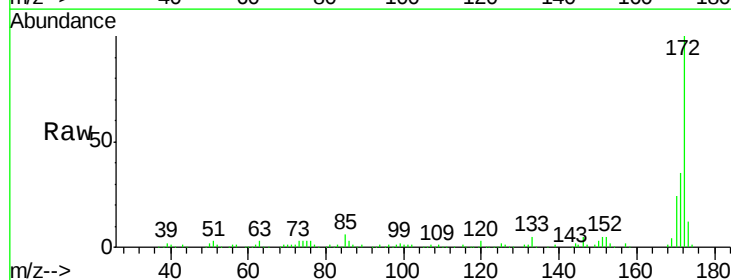


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

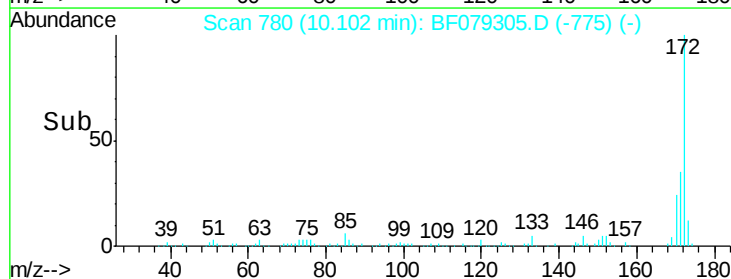
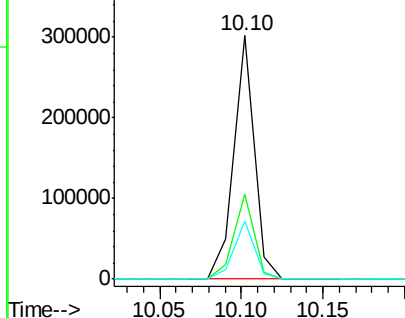


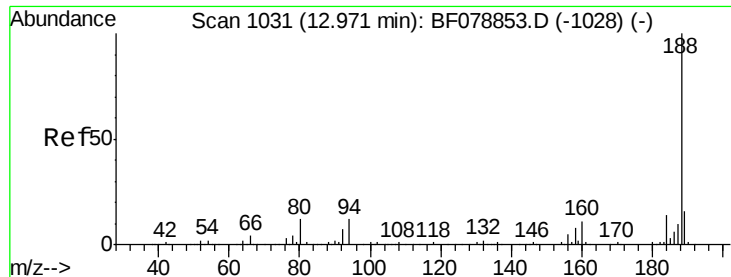
#44  
 2-Fluorobiphenyl  
 Concen: 25.65 ng  
 RT: 10.10 min Scan# 780  
 Delta R.T. -0.05 min  
 Lab File: BF079305.D  
 Acq: 16 May 2015 10:34

Tgt Ion:172 Resp: 261641  
 Ion Ratio Lower Upper  
 172 100  
 171 34.8 28.3 42.5  
 170 23.7 19.4 29.2



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

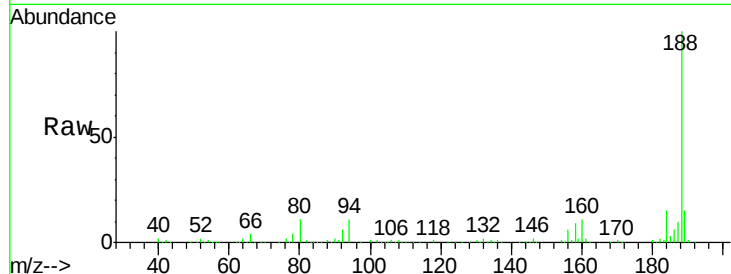




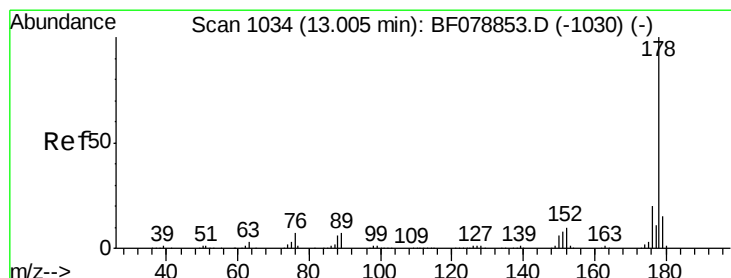
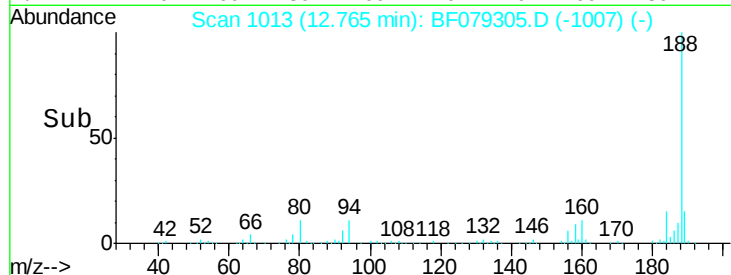
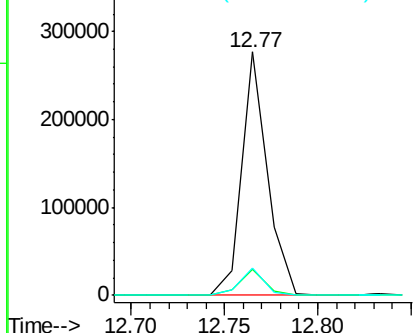
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 12.77 min Scan# 1013  
 Delta R.T. -0.06 min  
 Lab File: BF079305.D  
 Acq: 16 May 2015 10:34

Instrument :  
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Tgt Ion:188 Resp: 264865  
 Ion Ratio Lower Upper  
 188 100  
 94 10.8 9.4 14.0  
 80 11.3 9.8 14.6

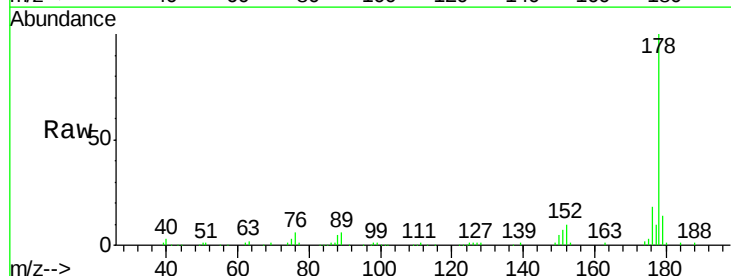


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

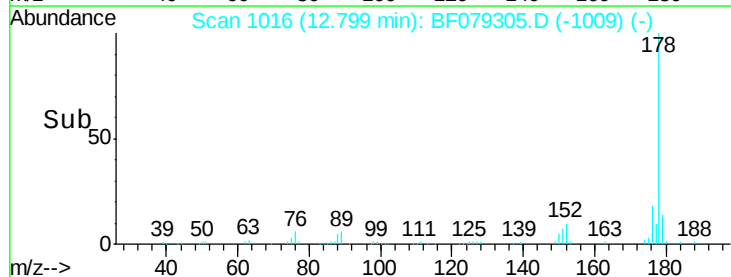
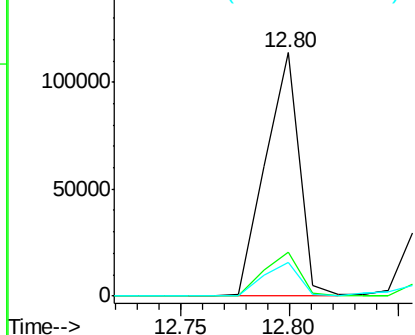


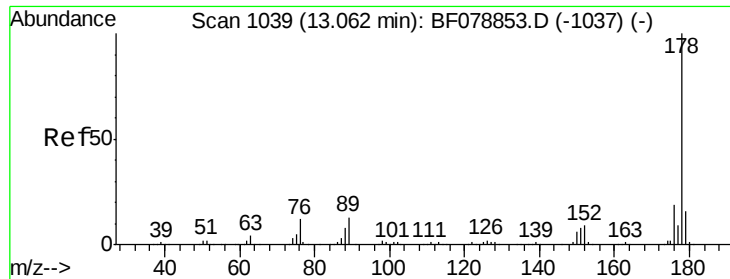
#70  
 Phenanthrene  
 Concen: 8.39 ng  
 RT: 12.80 min Scan# 1016  
 Delta R.T. -0.05 min  
 Lab File: BF079305.D  
 Acq: 16 May 2015 10:34

Tgt Ion:178 Resp: 124308  
 Ion Ratio Lower Upper  
 178 100  
 176 18.1 15.9 23.9  
 179 14.1 12.2 18.4



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

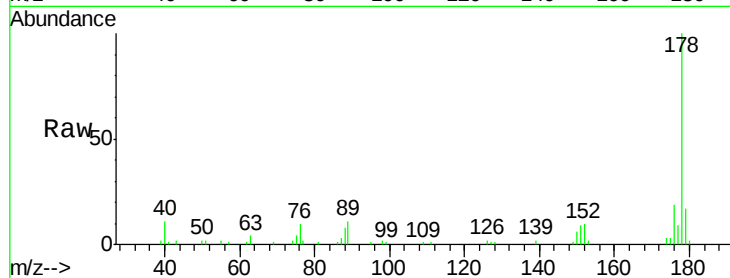




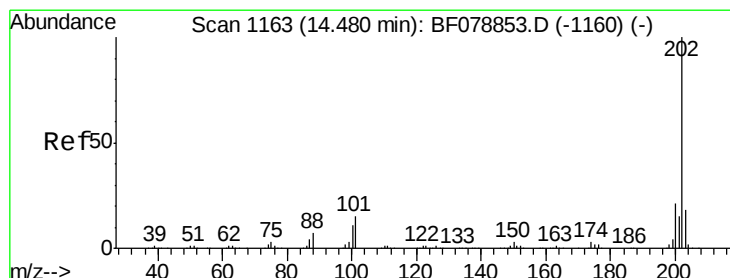
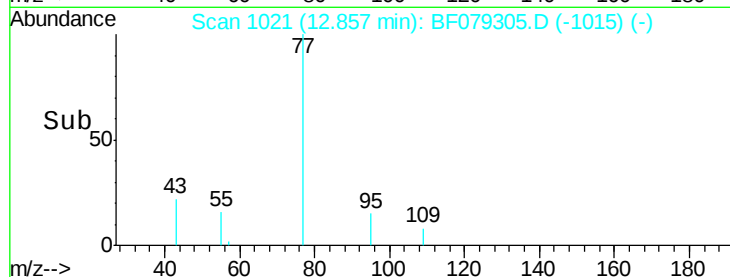
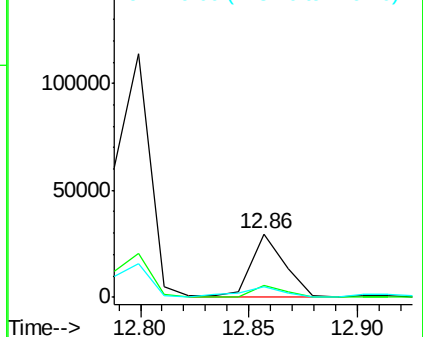
#71  
 Anthracene  
 Concen: 2.14 ng  
 RT: 12.86 min Scan# 1021  
 Delta R.T. -0.06 min  
 Lab File: BF079305.D  
 Acq: 16 May 2015 10:34

Instrument :  
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Tgt Ion:178 Resp: 31121  
 Ion Ratio Lower Upper  
 178 100  
 176 19.1 15.3 22.9  
 179 17.3 12.6 19.0

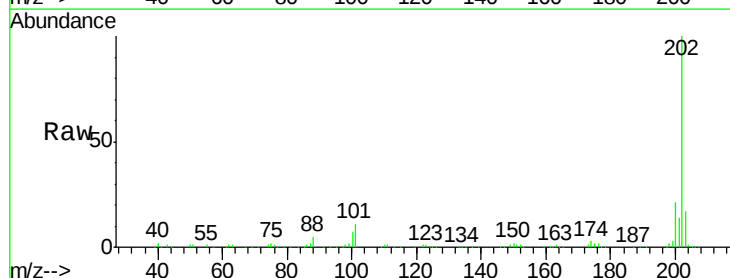


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

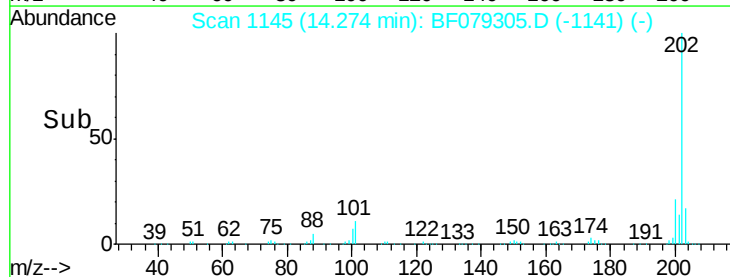
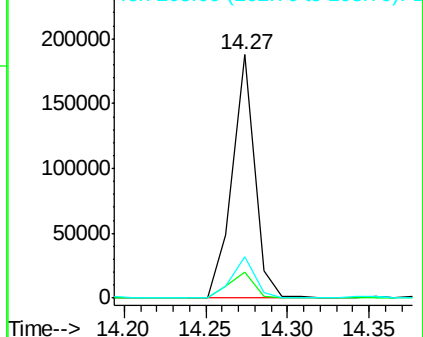


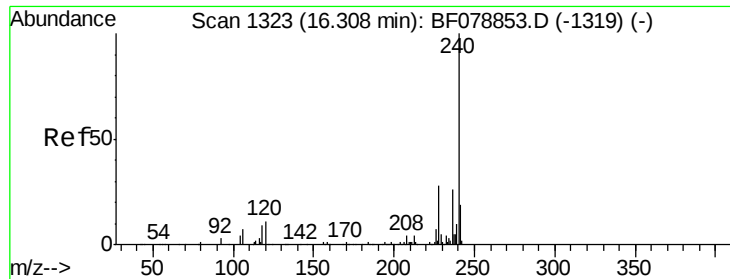
#74  
 Fluoranthene  
 Concen: 11.62 ng  
 RT: 14.27 min Scan# 1145  
 Delta R.T. -0.10 min  
 Lab File: BF079305.D  
 Acq: 16 May 2015 10:34

Tgt Ion:202 Resp: 179358  
 Ion Ratio Lower Upper  
 202 100  
 101 10.6 0.0 34.7  
 203 17.1 0.0 37.9



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: 16.73 min Scan# 1360

Delta R.T. 0.23 min

Lab File: BF079305.D

Acq: 16 May 2015 10:34

Instrument :

BNA\_F

ClientSampleId :

WC-04-D1

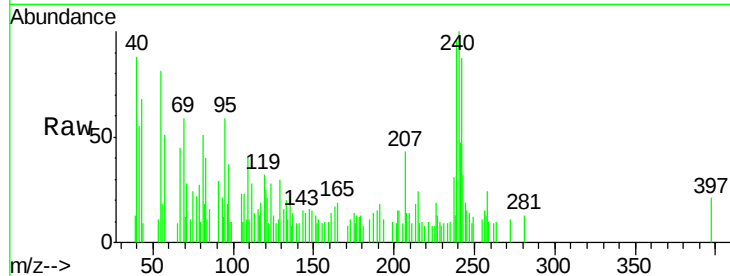
Tgt Ion:240 Resp: 10239

Ion Ratio Lower Upper

240 100

120 24.6 8.6 12.8#

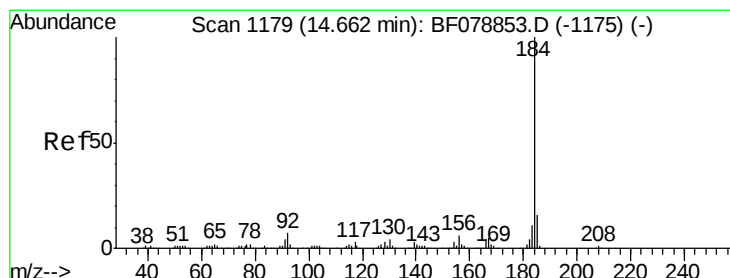
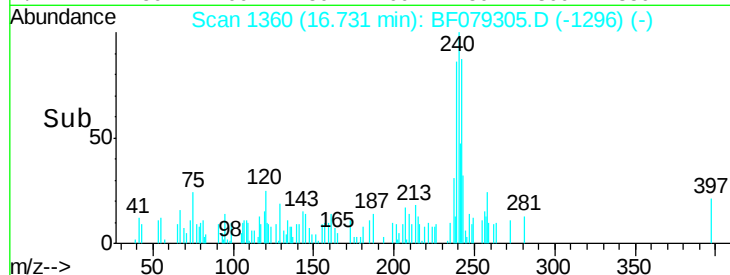
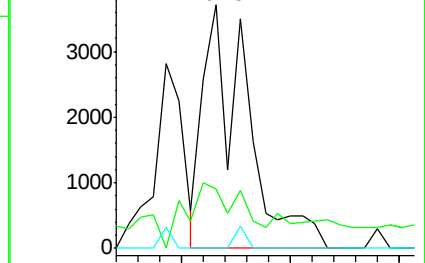
236 0.0 21.0 31.6#



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: 14.10 ng

RT: 14.77 min Scan# 1188

Delta R.T. 0.18 min

Lab File: BF079305.D

Acq: 16 May 2015 10:34

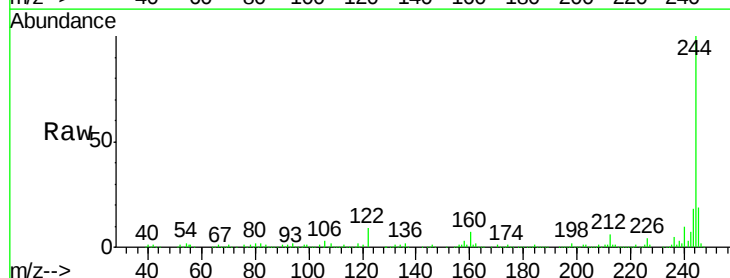
Tgt Ion:184 Resp: 3890

Ion Ratio Lower Upper

184 100

185 18.6 12.8 19.2

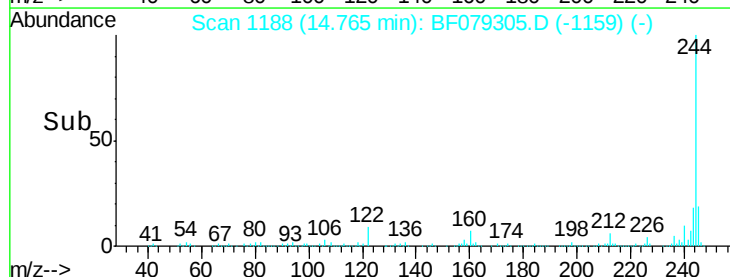
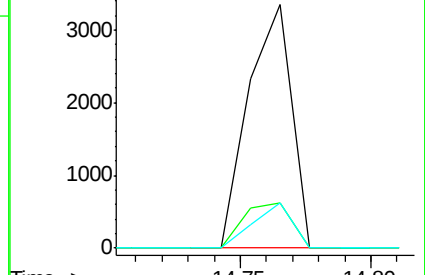
183 18.4 9.0 13.4#

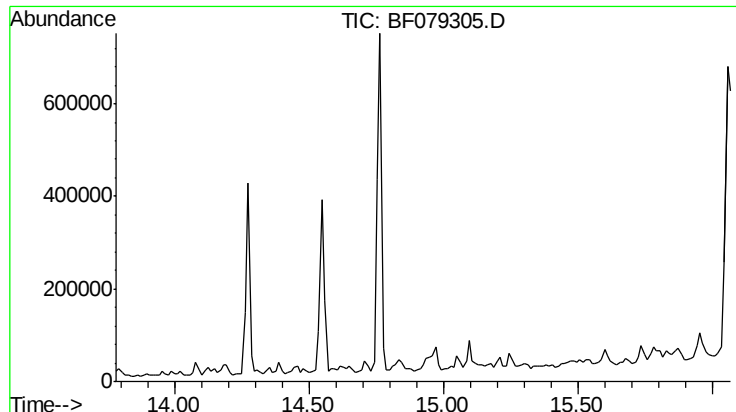


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

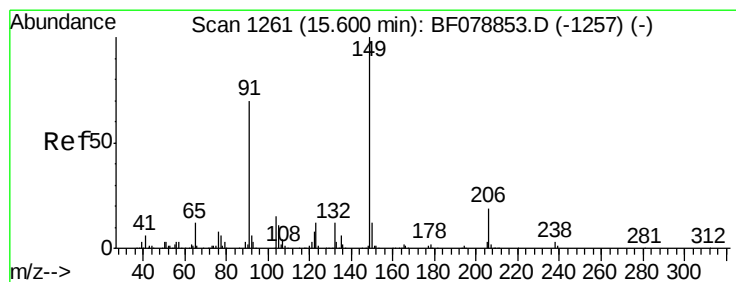
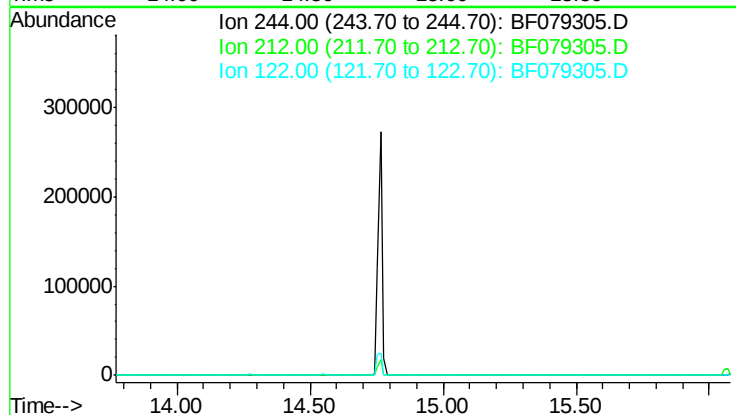




#78  
 Terphenyl-d14  
 Concen: 0.00 ng  
 Expected RT: 14.93 min  
 Lab File: BF079305.D  
 Acq: 16 May 2015 10:34

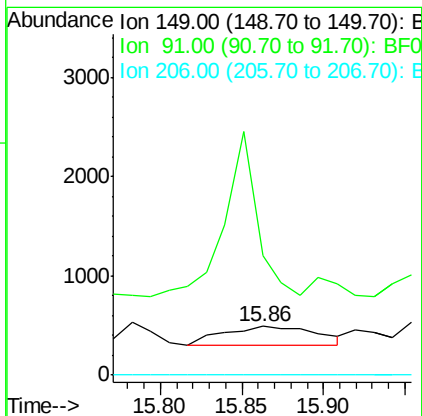
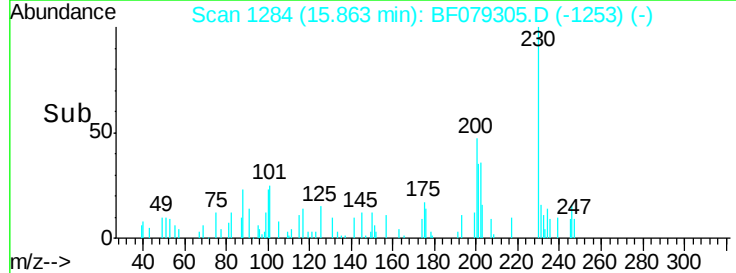
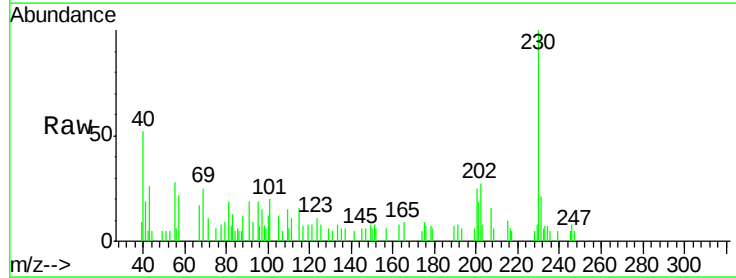
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-04-D1

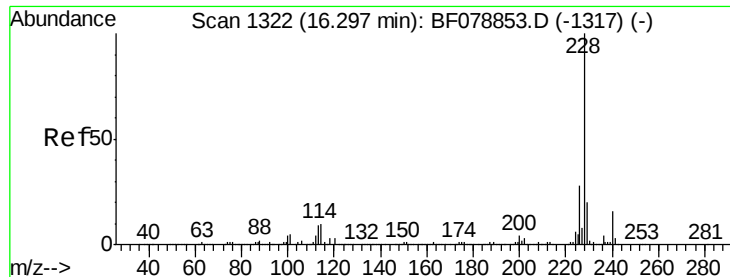
Tgt Ion: 244  
 Sig Exp Ratio  
 244 100  
 212 7.0  
 122 13.1



#79  
 Butylbenzylphthalate  
 Concen: 2.93 ng  
 RT: 15.86 min Scan# 1284  
 Delta R.T. 0.19 min  
 Lab File: BF079305.D  
 Acq: 16 May 2015 10:34

Tgt Ion: 149 Resp: 756  
 Ion Ratio Lower Upper  
 149 100  
 91 245.2 56.2 84.2#  
 206 0.0 15.2 22.8#





#80

Benzo(a)anthracene

Concen: 3.06 ng

RT: 16.75 min Scan# 1362

Delta R.T. 0.26 min

Lab File: BF079305.D

Acq: 16 May 2015 10:34

Instrument :

BNA\_F

ClientSampleId :

WC-04-D1

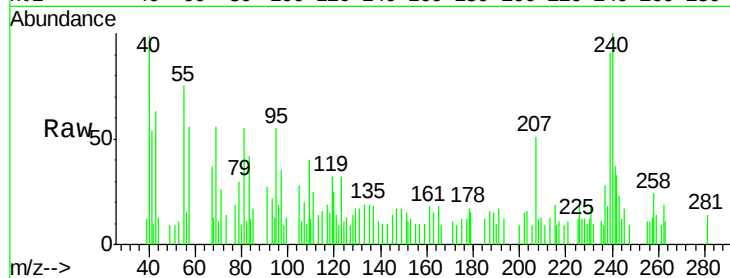
Tgt Ion:228 Resp: 1718

Ion Ratio Lower Upper

228 100

226 157.6 22.3 33.5#

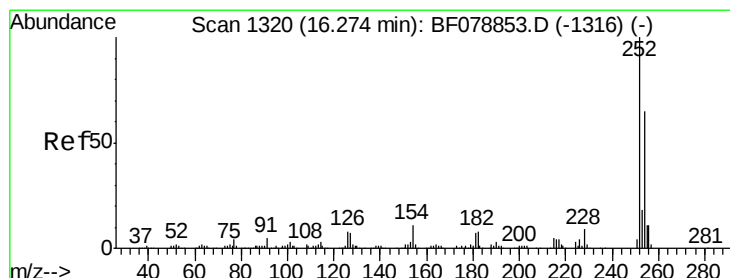
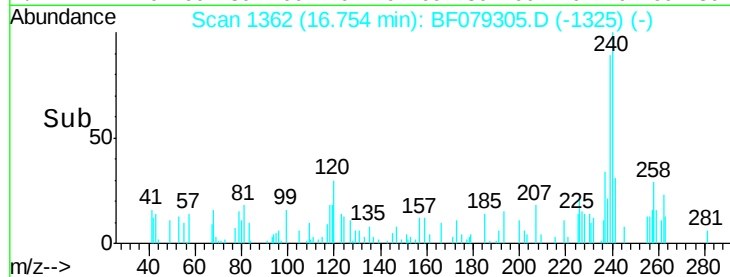
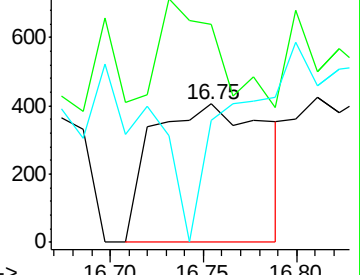
229 87.7 16.1 24.1#



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



#81

3,3'-Dichlorobenzidine

Concen: 7.37 ng

RT: 16.70 min Scan# 1357

Delta R.T. 0.23 min

Lab File: BF079305.D

Acq: 16 May 2015 10:34

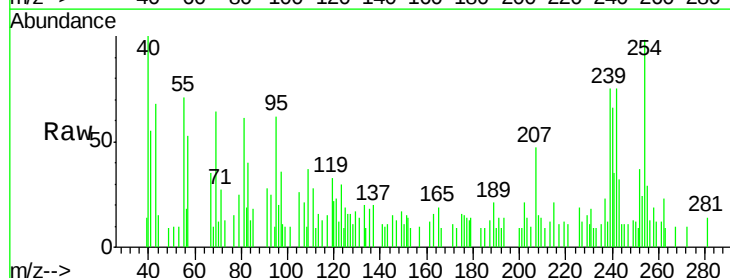
Tgt Ion:252 Resp: 1472

Ion Ratio Lower Upper

252 100

254 263.3 52.2 78.2#

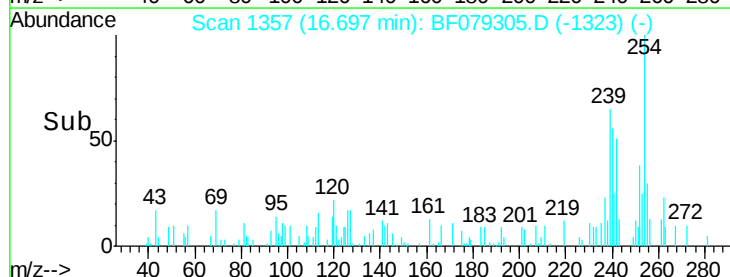
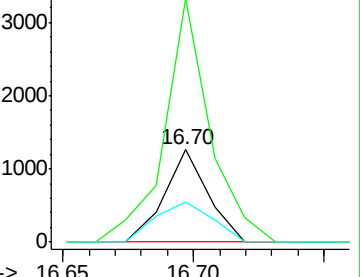
126 43.6 6.6 9.8#

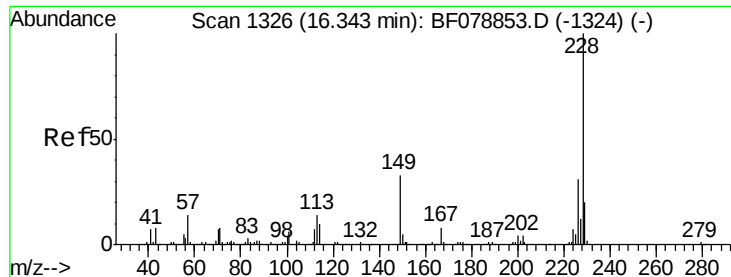


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#82

Chrysene

Concen: 3.19 ng

RT: 16.75 min Scan# 1362

Delta R.T. 0.21 min

Lab File: BF079305.D

Acq: 16 May 2015 10:34

Instrument :

BNA\_F

ClientSampleId :

WC-04-D1

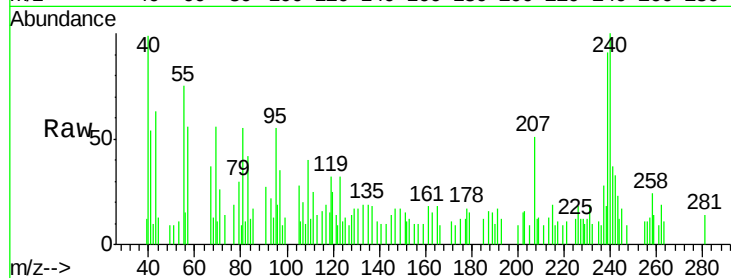
Tgt Ion:228 Resp: 1718

Ion Ratio Lower Upper

228 100

226 157.6 24.8 37.2#

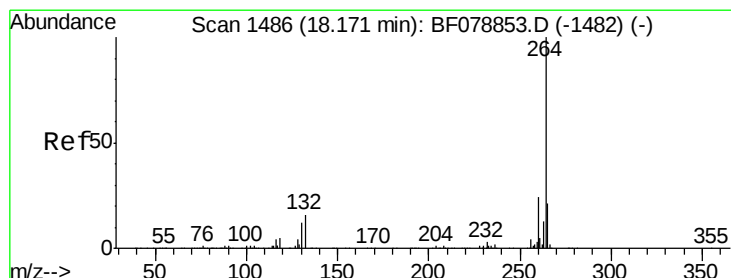
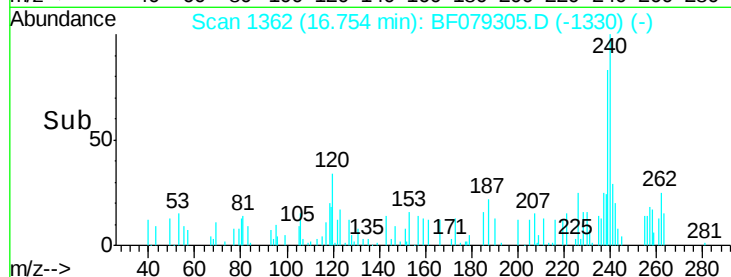
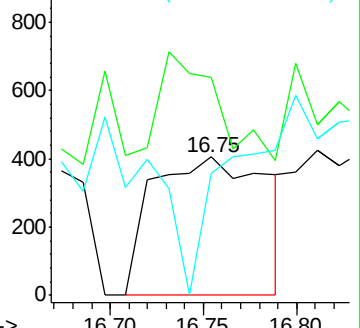
229 87.7 16.1 24.1#



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: 19.17 min Scan# 1573

Delta R.T. 0.29 min

Lab File: BF079305.D

Acq: 16 May 2015 10:34

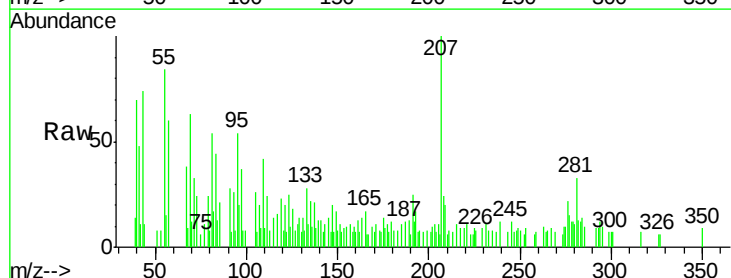
Tgt Ion:264 Resp: 232

Ion Ratio Lower Upper

264 100

260 0.0 19.2 28.8#

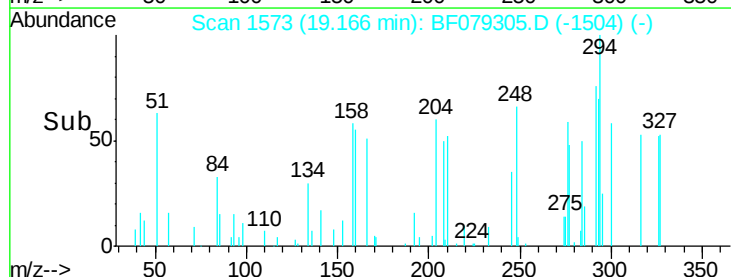
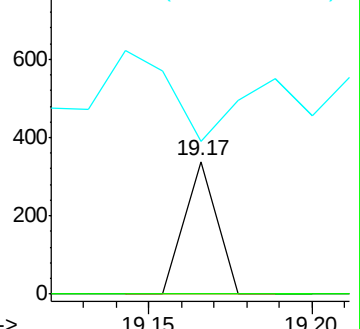
265 115.4 17.2 25.8#

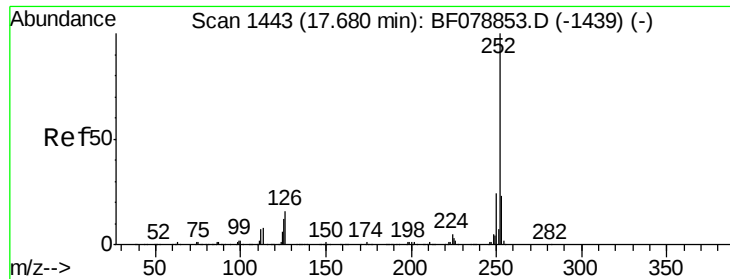


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

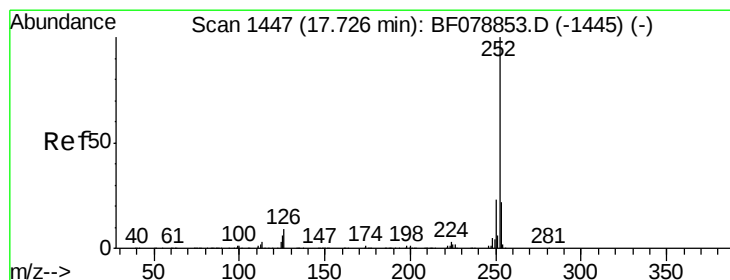
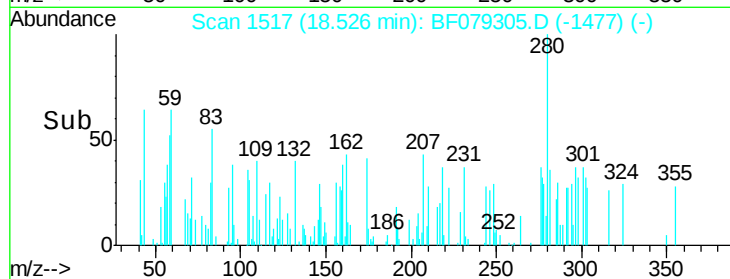
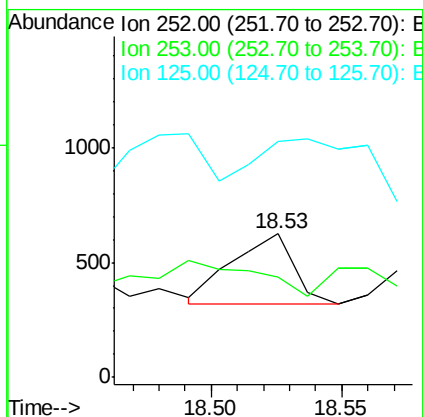
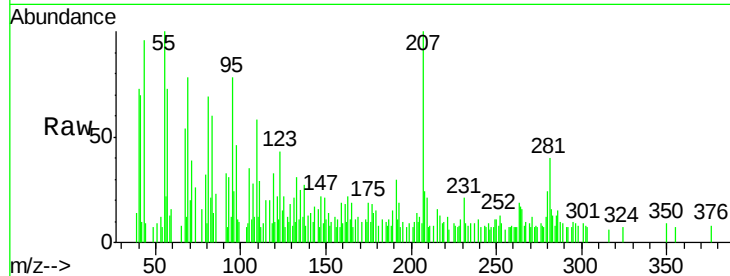




#87  
Benzo(b)fluoranthene  
Concen: 39.61 ng  
RT: 18.53 min Scan# 1517  
Delta R.T. 0.27 min  
Lab File: BF079305.D  
Acq: 16 May 2015 10:34

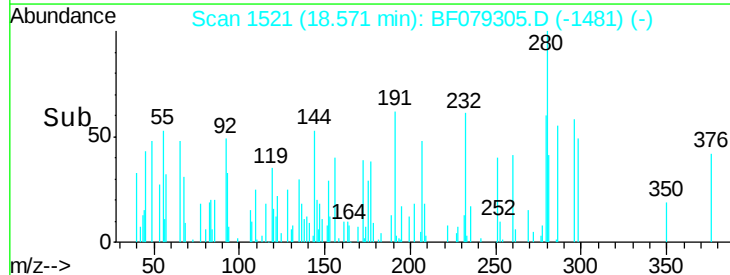
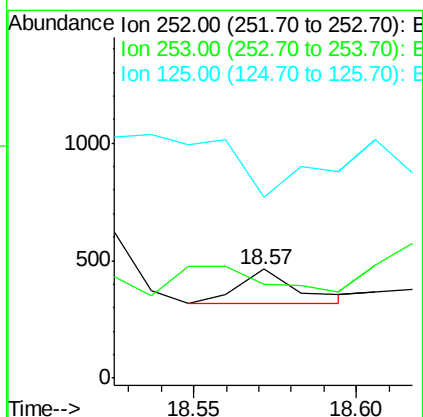
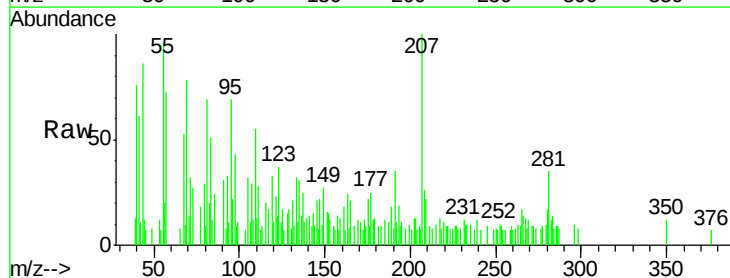
Instrument :  
BNA\_F  
ClientSampleId :  
WC-04-D1

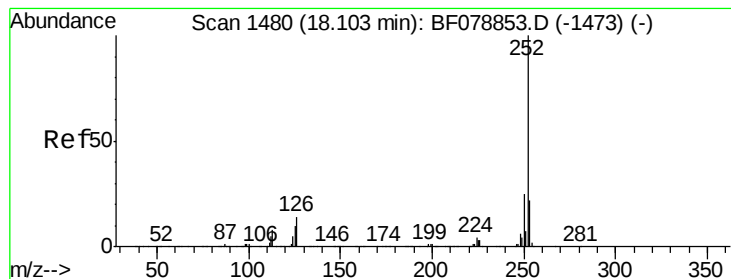
Tgt Ion: 252 Resp: 503  
Ion Ratio Lower Upper  
252 100  
253 69.6 18.1 27.1#  
125 164.3 9.4 14.2#



#88  
Benzo(k)fluoranthene  
Concen: 14.56 ng  
RT: 18.57 min Scan# 1521  
Delta R.T. 0.27 min  
Lab File: BF079305.D  
Acq: 16 May 2015 10:34

Tgt Ion: 252 Resp: 179  
Ion Ratio Lower Upper  
252 100  
253 85.8 17.4 26.0#  
125 165.3 6.1 9.1#





#89

Benzo(a)pyrene

Concen: 58.33 ng

RT: 18.95 min Scan# 1554

Delta R.T. 0.16 min

Lab File: BF079305.D

Acq: 16 May 2015 10:34

Instrument :

BNA\_F

ClientSampleId :

WC-04-D1

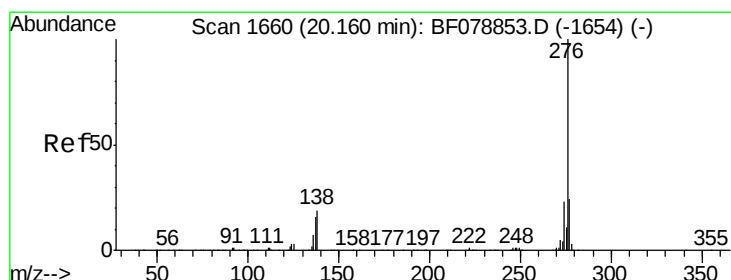
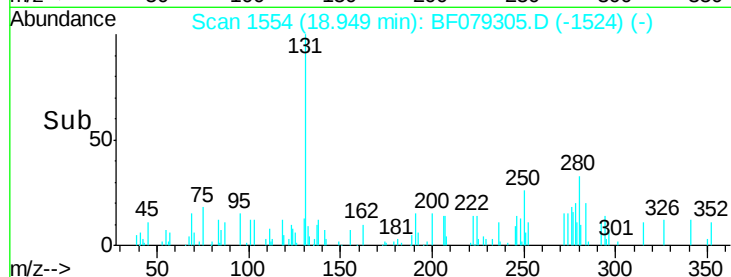
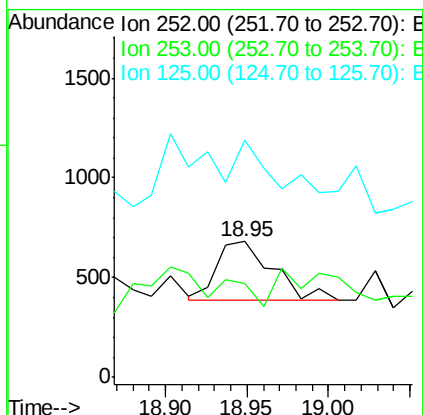
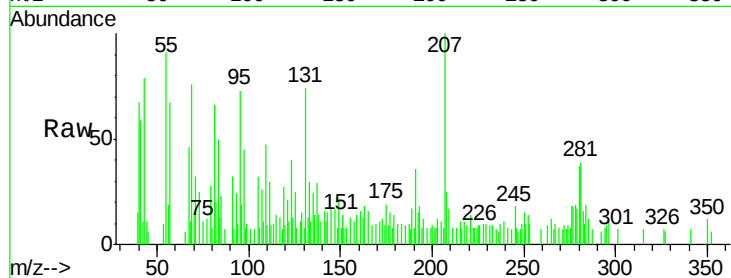
Tgt Ion:252 Resp: 682

Ion Ratio Lower Upper

252 100

253 69.4 18.0 27.0#

125 174.7 8.2 12.2#



#91

Benzo(g,h,i)perylene

Concen: 23.85 ng

RT: 21.26 min Scan# 1756

Delta R.T. 0.17 min

Lab File: BF079305.D

Acq: 16 May 2015 10:34

Tgt Ion:276 Resp: 297

Ion Ratio Lower Upper

276 100

277 0.0 18.8 28.2#

138 0.0 15.2 22.8#

