

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF072916\  
 Data File : BF089387.D  
 Acq On : 29 Jul 2016 3:04  
 Operator : UM/SJ  
 Sample : H4216-13  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-5(LOT112BACK)0-1

Quant Time: Jul 29 03:40:32 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF072716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 28 16:02:32 2016  
 Response via : Initial Calibration

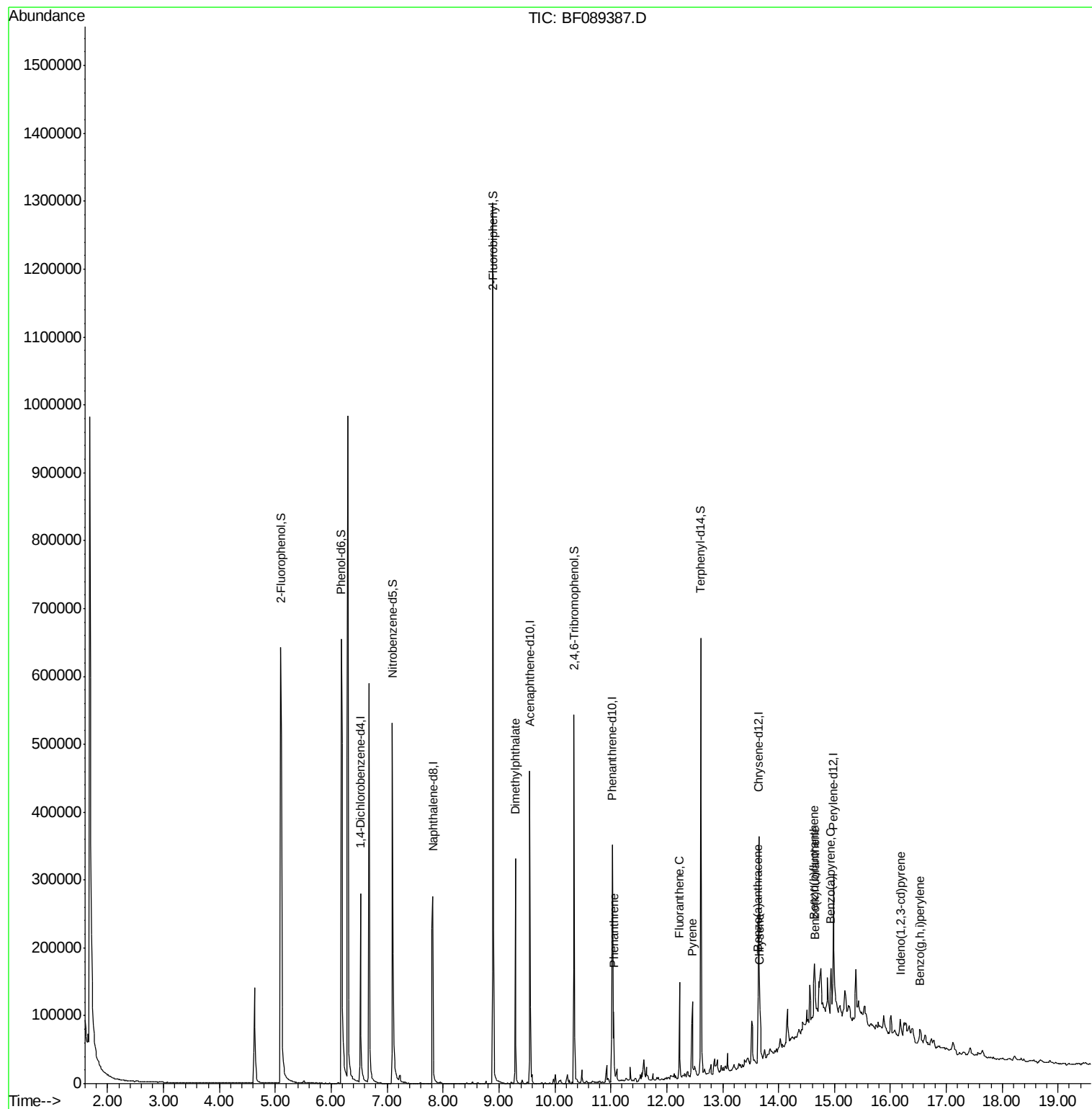
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.52  | 152  | 52078    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8          | 7.82  | 136  | 200616   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.55  | 164  | 87060    | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.03 | 188  | 142126   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12            | 13.65 | 240  | 103356   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12            | 14.98 | 264  | 83502    | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.10  | 112  | 297647   | 91.26 | ng    | -0.01    |
| 7) Phenol-d6                | 6.18  | 99   | 380202   | 88.21 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.10  | 82   | 238364   | 70.13 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.34 | 330  | 60938    | 84.51 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 8.89  | 172  | 409159   | 68.97 | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.61 | 244  | 247505   | 56.05 | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 9.29  | 163  | 126653   | 19.11 | ng    | 99       |
| 70) Phenanthrene            | 11.05 | 178  | 36686    | 5.00  | ng    | 100      |
| 74) Fluoranthene            | 12.23 | 202  | 60041    | 7.79  | ng    | 99       |
| 77) Pyrene                  | 12.46 | 202  | 60970    | 7.78  | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.63 | 228  | 30715    | 5.27  | ng    | # 86     |
| 82) Chrysene                | 13.67 | 228  | 25801m   | 4.16  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.18 | 276  | 14950    | 3.39  | ng    | # 82     |
| 87) Benzo(b)fluoranthene    | 14.64 | 252  | 37906m   | 7.31  | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.65 | 252  | 11538m   | 2.42  | ng    |          |
| 89) Benzo(a)pyrene          | 14.94 | 252  | 26322    | 5.66  | ng    | 98       |
| 91) Benzo(g,h,i)perylene    | 16.54 | 276  | 17405    | 4.83  | ng    | 97       |

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

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QLast Update : Thu Jul 28 16:02:32 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.52 min Scan# 432

Delta R.T. -0.02 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

Instrument :

BNA\_F

ClientSampleId :

SP-5(LOT112BACK)0-1

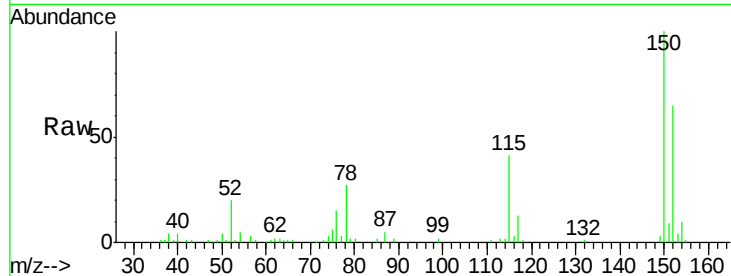
Tgt Ion:152 Resp: 52078

Ion Ratio Lower Upper

152 100

150 153.1 129.5 194.3

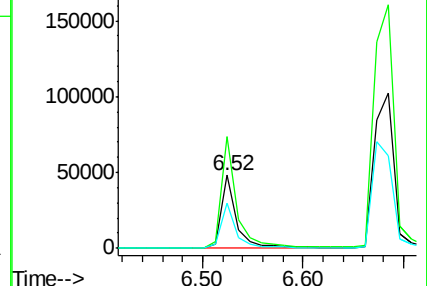
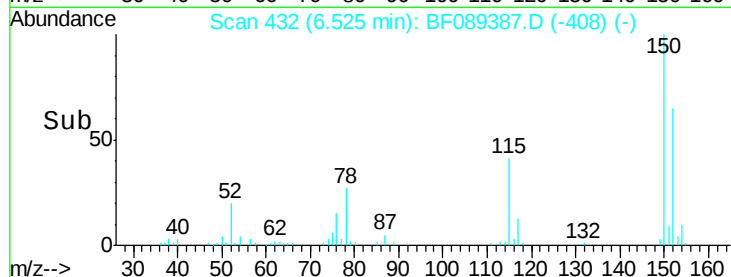
115 62.5 51.4 77.2



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: 91.26 ng

RT: 5.10 min Scan# 307

Delta R.T. -0.01 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

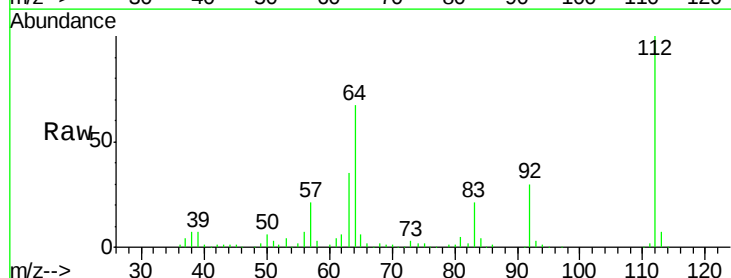
Tgt Ion:112 Resp: 297647

Ion Ratio Lower Upper

112 100

64 66.6 55.0 82.6

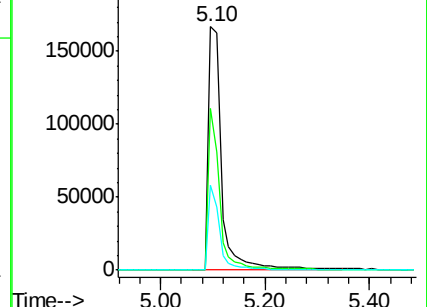
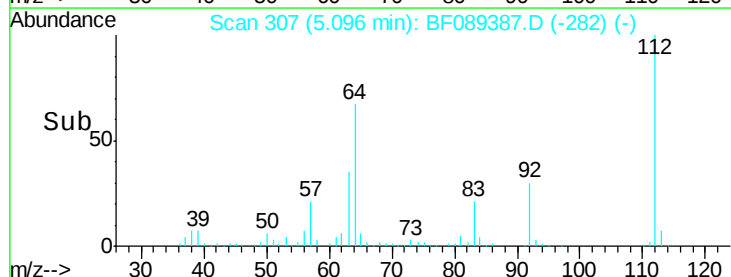
63 35.1 29.4 44.2



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: 88.21 ng

RT: 6.18 min Scan# 402

Delta R.T. -0.02 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

Instrument :

BNA\_F

ClientSampleId :

SP-5(LOT112BACK)0-1

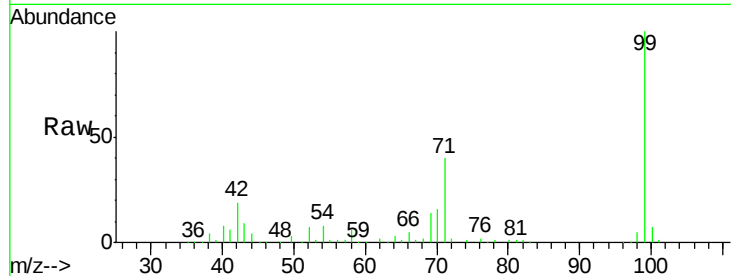
Tgt Ion: 99 Resp: 380202

Ion Ratio Lower Upper

99 100

42 19.5 13.6 20.4

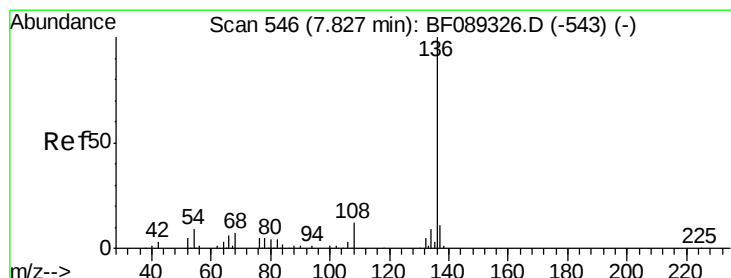
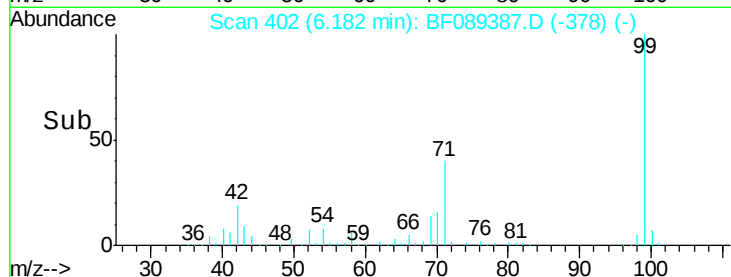
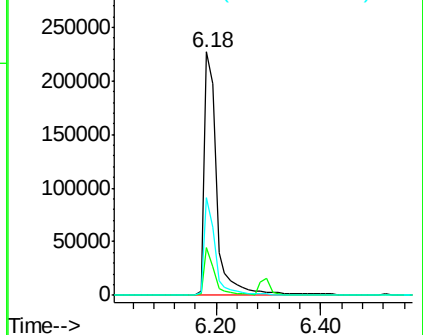
71 40.1 29.4 44.2



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: 7.82 min Scan# 545

Delta R.T. -0.01 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

Tgt Ion: 136 Resp: 200616

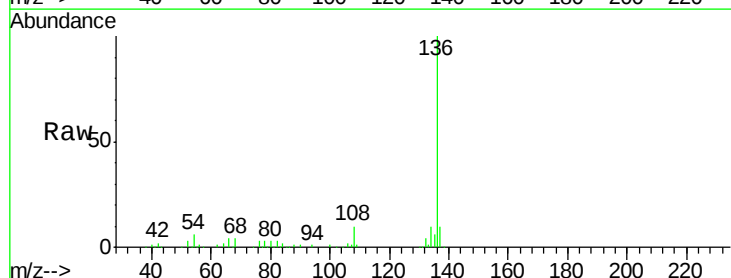
Ion Ratio Lower Upper

136 100

137 10.4 8.6 13.0

54 5.5 7.0 10.4#

68 4.5 4.9 7.3#

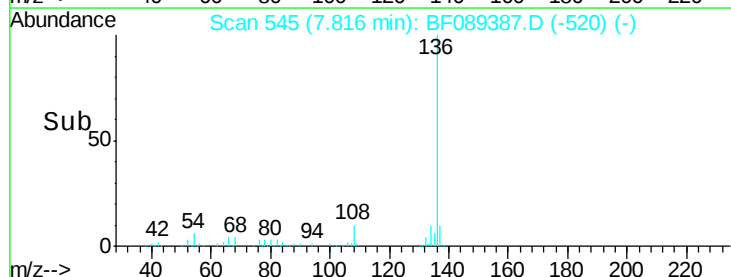
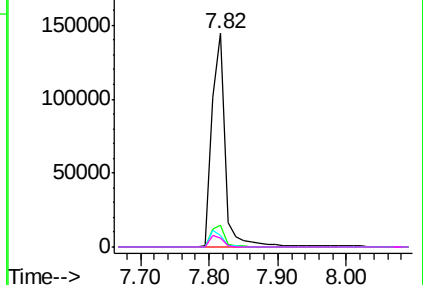


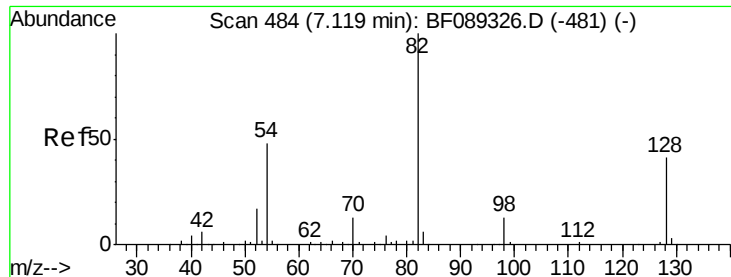
Abundance Ion 136.00 (135.70 to 136.70): E

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

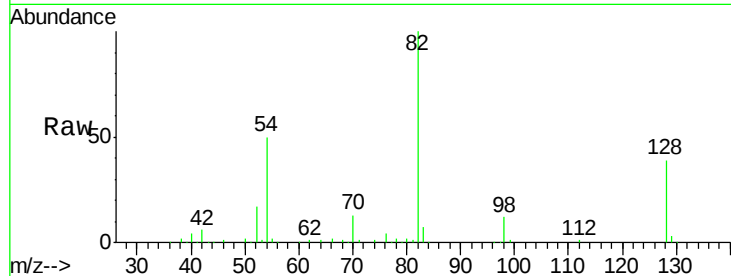




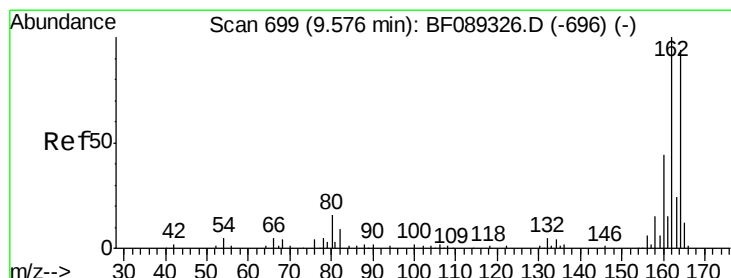
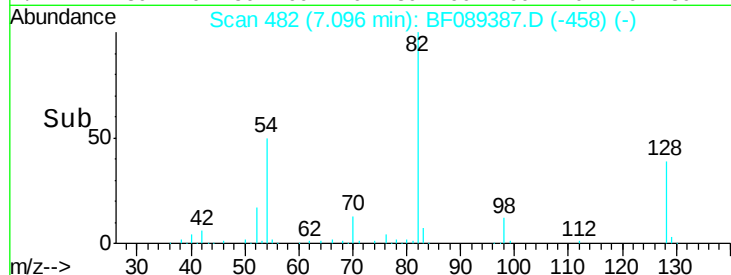
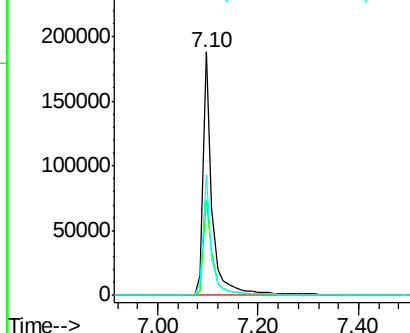
#23  
Nitrobenzene-d5  
Concen: 70.13 ng  
RT: 7.10 min Scan# 482  
Delta R.T. -0.02 min  
Lab File: BF089387.D  
Acq: 29 Jul 2016 3:04

Instrument :  
BNA\_F  
ClientSampleId :  
SP-5(LOT112BACK)0-1

Tgt Ion: 82 Resp: 238364  
Ion Ratio Lower Upper  
82 100  
128 38.8 32.5 48.7  
54 49.6 38.8 58.2

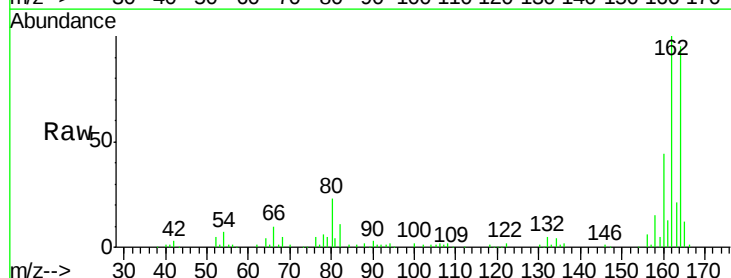


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0

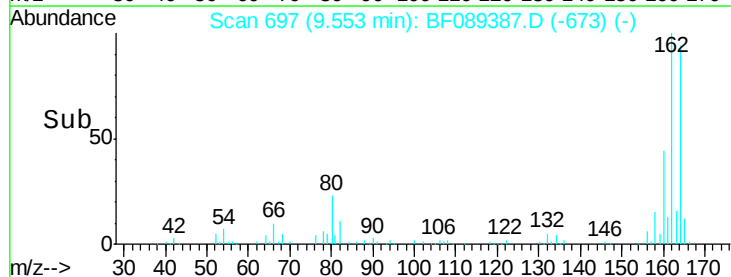
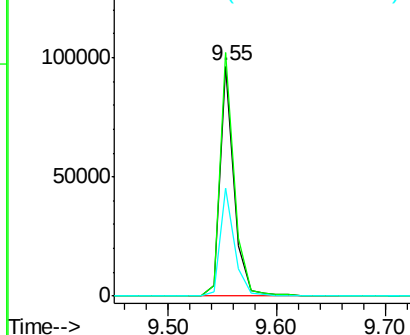


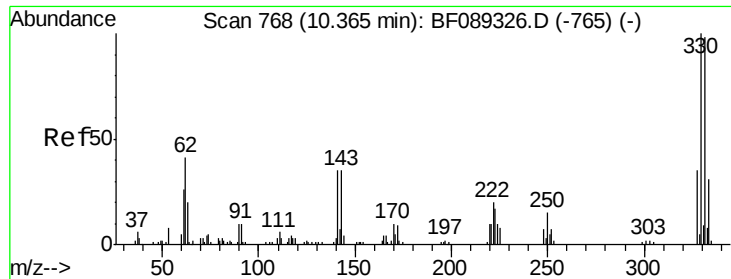
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.55 min Scan# 697  
Delta R.T. -0.02 min  
Lab File: BF089387.D  
Acq: 29 Jul 2016 3:04

Tgt Ion: 164 Resp: 87060  
Ion Ratio Lower Upper  
164 100  
162 105.8 83.7 125.5  
160 46.9 37.8 56.6



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

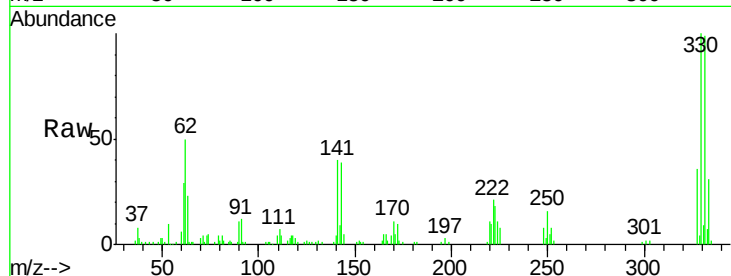




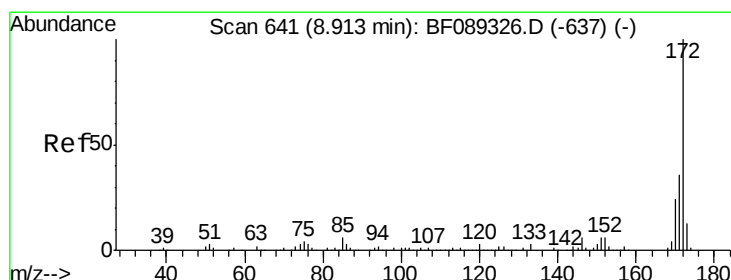
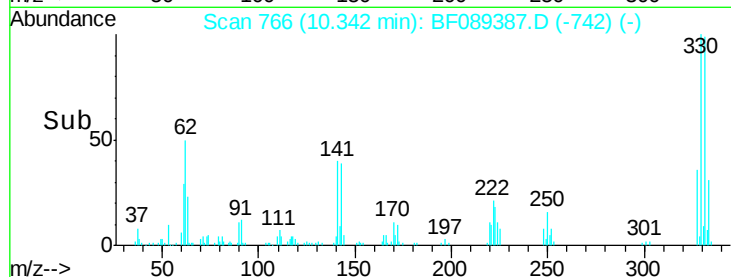
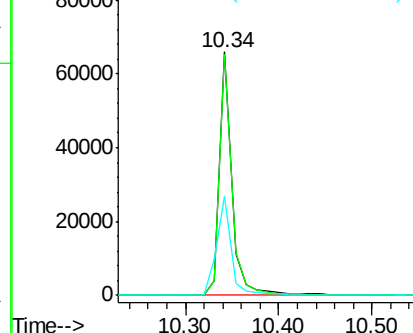
#41  
 2,4,6-Tribromophenol  
 Concen: 84.51 ng  
 RT: 10.34 min Scan# 766  
 Delta R.T. -0.02 min  
 Lab File: BF089387.D  
 Acq: 29 Jul 2016 3:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-5(LOT112BACK)0-1

Tgt Ion:330 Resp: 60938  
 Ion Ratio Lower Upper  
 330 100  
 332 98.4 76.8 115.2  
 141 47.6 37.3 55.9

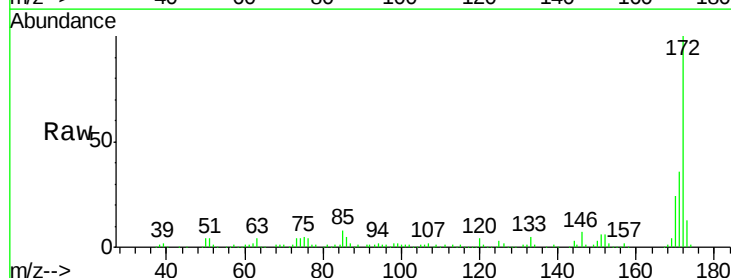


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

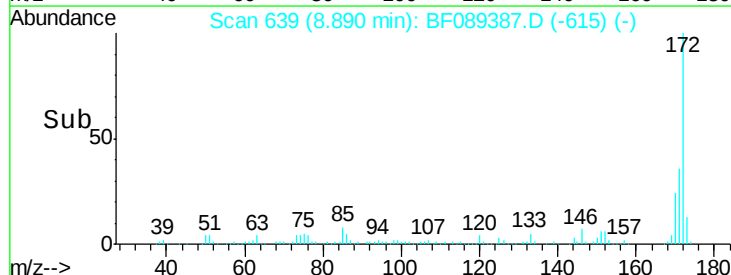
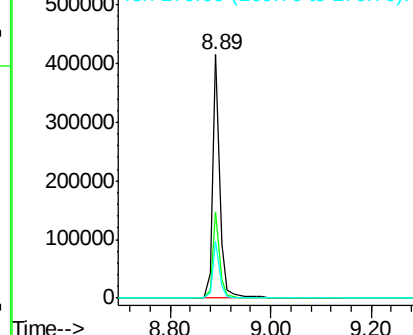


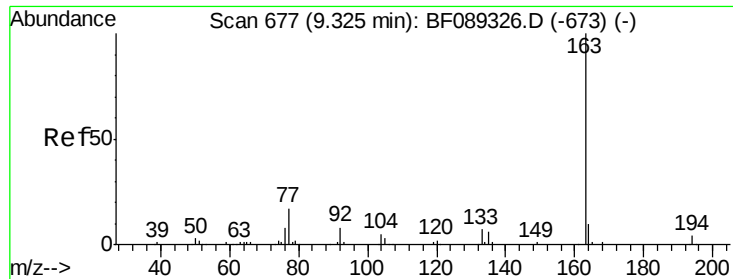
#44  
 2-Fluorobiphenyl  
 Concen: 68.97 ng  
 RT: 8.89 min Scan# 639  
 Delta R.T. -0.02 min  
 Lab File: BF089387.D  
 Acq: 29 Jul 2016 3:04

Tgt Ion:172 Resp: 409159  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 29.2 43.8  
 170 23.5 19.2 28.8



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

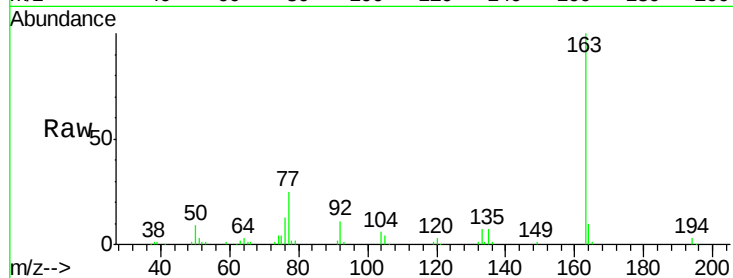




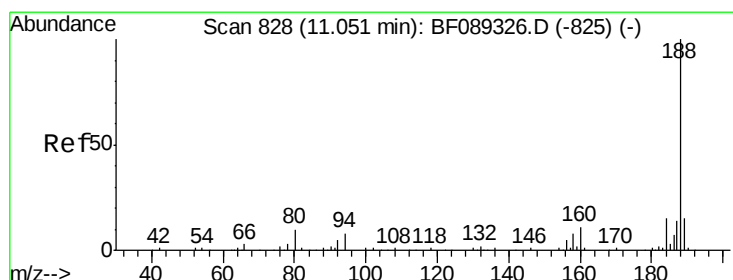
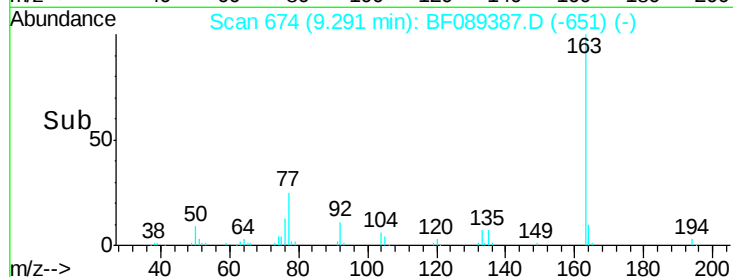
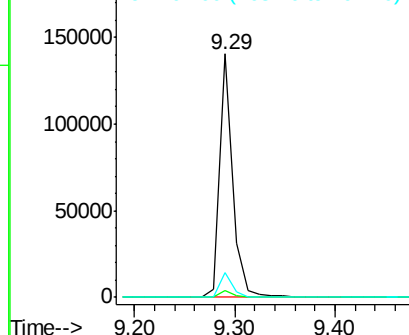
#49  
Dimethylphthalate  
Concen: 19.11 ng  
RT: 9.29 min Scan# 674  
Delta R.T. -0.03 min  
Lab File: BF089387.D  
Acq: 29 Jul 2016 3:04

Instrument :  
BNA\_F  
ClientSampleId :  
SP-5(LOT112BACK)0-1

Tgt Ion:163 Resp: 126653  
Ion Ratio Lower Upper  
163 100  
194 3.0 2.8 4.2  
164 10.3 7.8 11.8

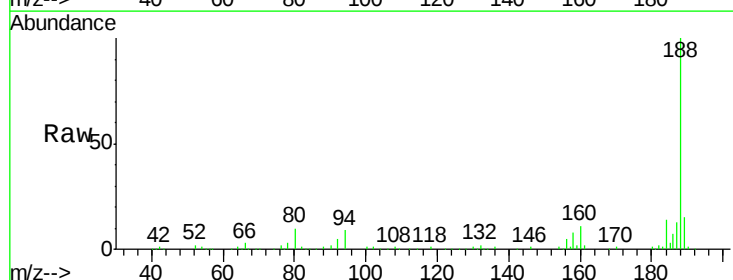


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

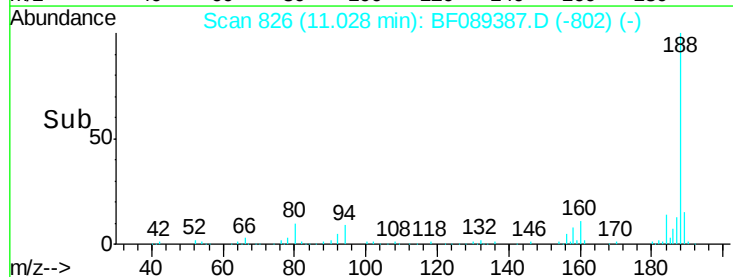
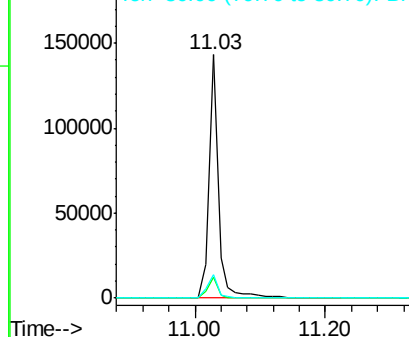


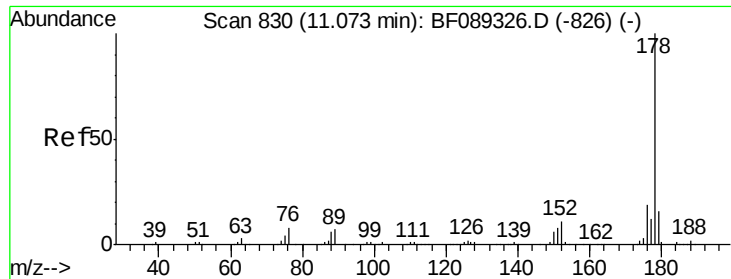
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.03 min Scan# 826  
Delta R.T. -0.02 min  
Lab File: BF089387.D  
Acq: 29 Jul 2016 3:04

Tgt Ion:188 Resp: 142126  
Ion Ratio Lower Upper  
188 100  
94 8.6 6.5 9.7  
80 9.8 7.2 10.8



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

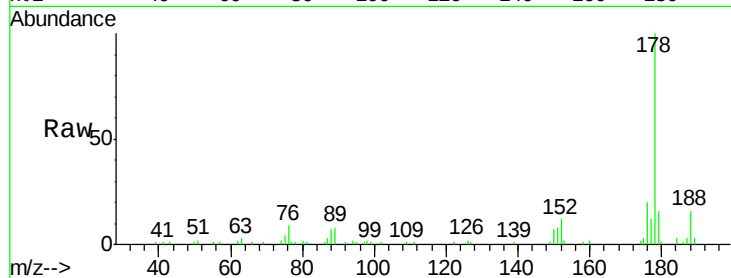




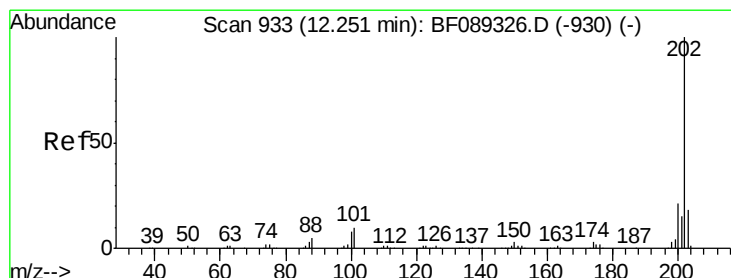
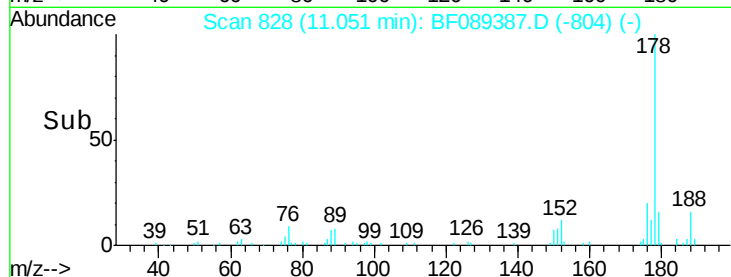
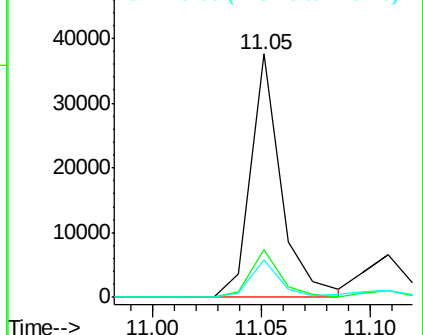
#70  
Phenanthrene  
Concen: 5.00 ng  
RT: 11.05 min Scan# 828  
Delta R.T. -0.02 min  
Lab File: BF089387.D  
Acq: 29 Jul 2016 3:04

Instrument :  
BNA\_F  
ClientSampleId :  
SP-5(LOT112BACK)0-1

Tgt Ion:178 Resp: 36686  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.5 23.3  
179 15.6 12.3 18.5

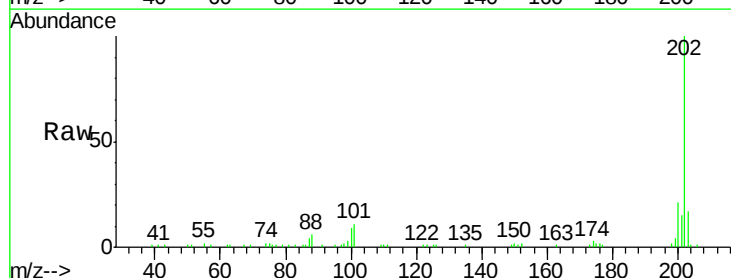


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

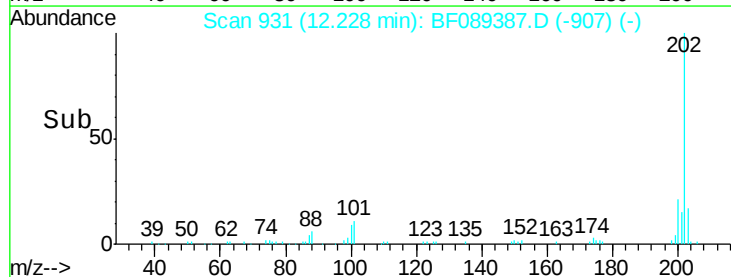
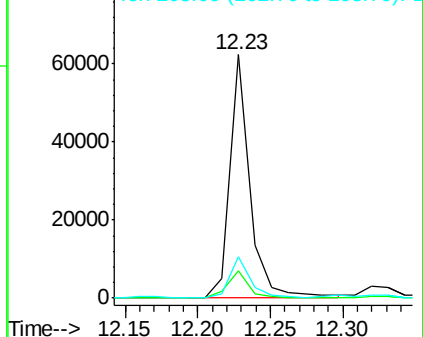


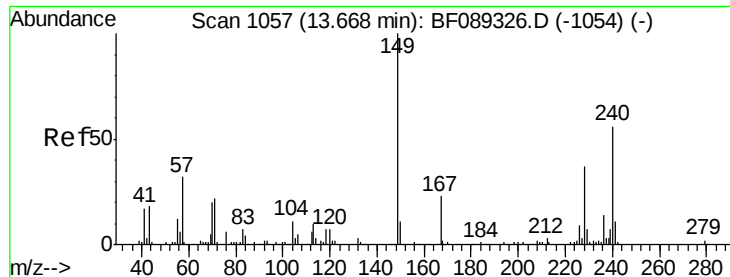
#74  
Fluoranthene  
Concen: 7.79 ng  
RT: 12.23 min Scan# 931  
Delta R.T. -0.02 min  
Lab File: BF089387.D  
Acq: 29 Jul 2016 3:04

Tgt Ion:202 Resp: 60041  
Ion Ratio Lower Upper  
202 100  
101 11.1 0.0 29.9  
203 17.2 0.0 37.3



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: 13.65 min Scan# 1055

Delta R.T. -0.02 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

Instrument :

BNA\_F

ClientSampleId :

SP-5(LOT112BACK)0-1

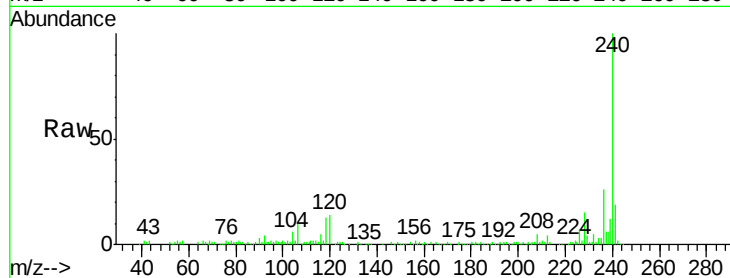
Tgt Ion:240 Resp: 103356

Ion Ratio Lower Upper

240 100

120 14.4 9.1 13.7#

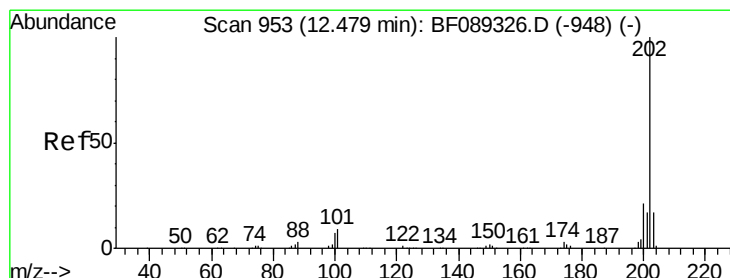
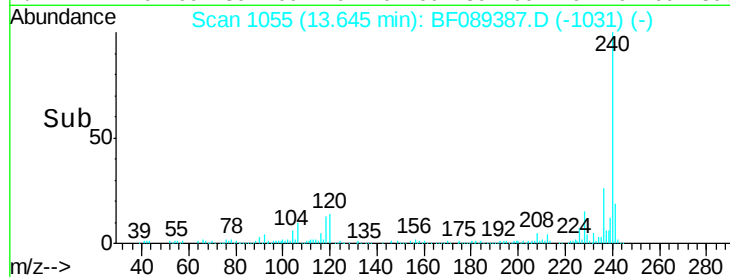
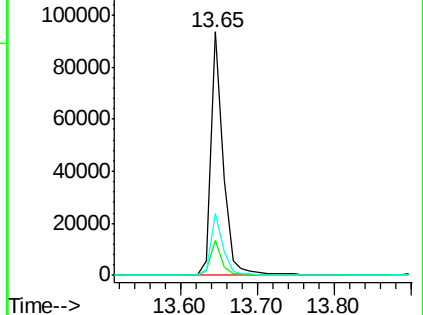
236 25.6 20.6 30.8



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 7.78 ng

RT: 12.46 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

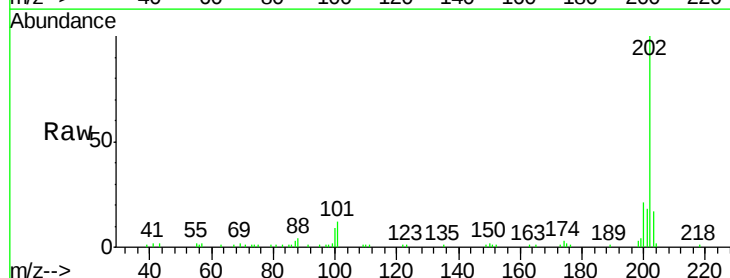
Tgt Ion:202 Resp: 60970

Ion Ratio Lower Upper

202 100

200 21.4 16.9 25.3

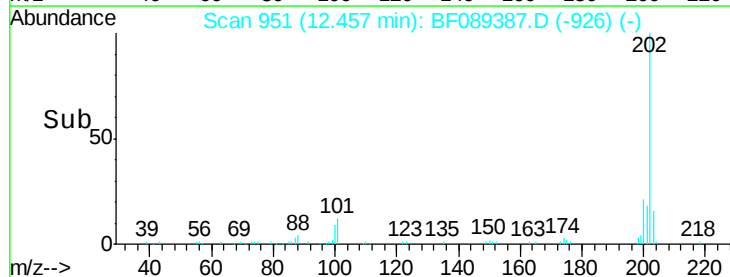
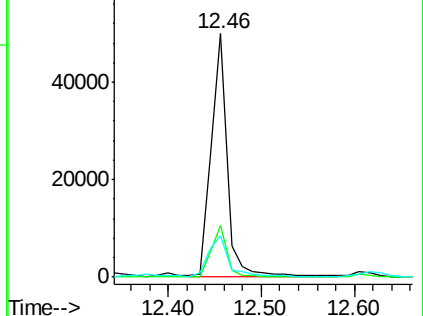
203 17.2 14.0 21.0

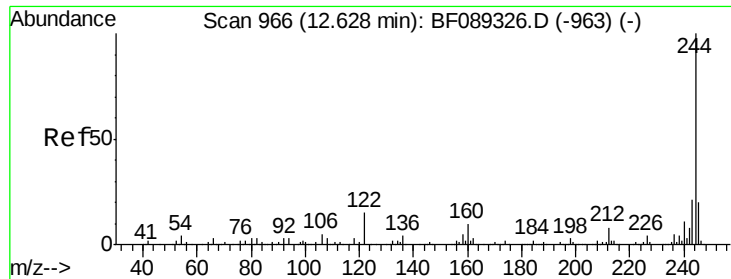


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 56.05 ng

RT: 12.61 min Scan# 964

Delta R.T. -0.02 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

Instrument :

BNA\_F

ClientSampleId :

SP-5(LOT112BACK)0-1

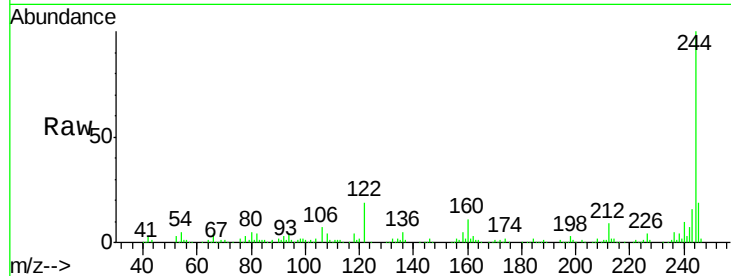
Tgt Ion:244 Resp: 247505

Ion Ratio Lower Upper

244 100

212 8.6 6.5 9.7

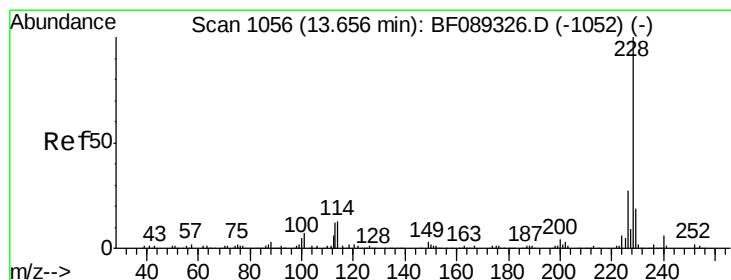
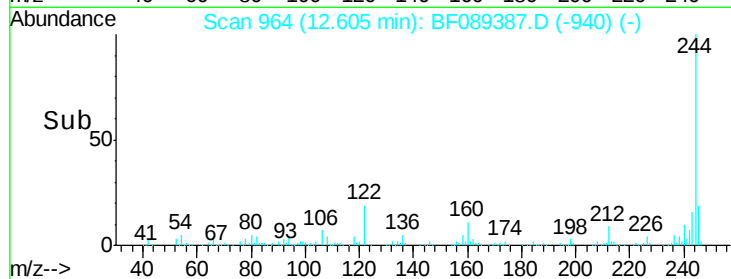
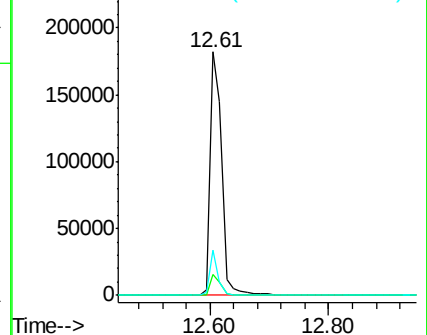
122 18.5 11.4 17.0#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 5.27 ng

RT: 13.63 min Scan# 1054

Delta R.T. -0.02 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

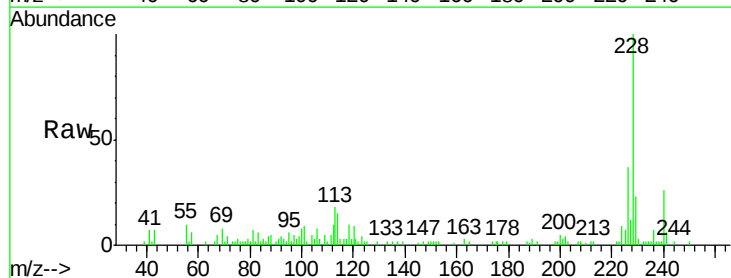
Tgt Ion:228 Resp: 30715

Ion Ratio Lower Upper

228 100

226 37.2 21.4 32.2#

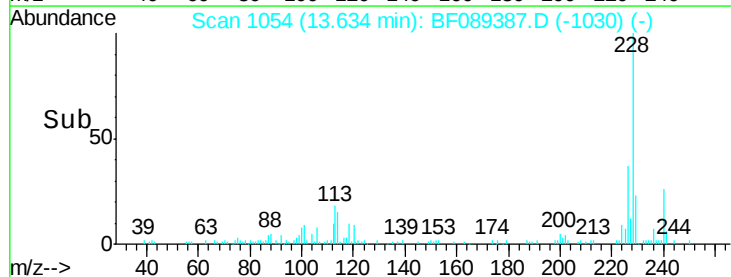
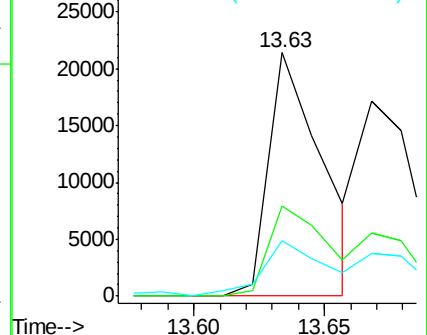
229 22.6 15.9 23.9

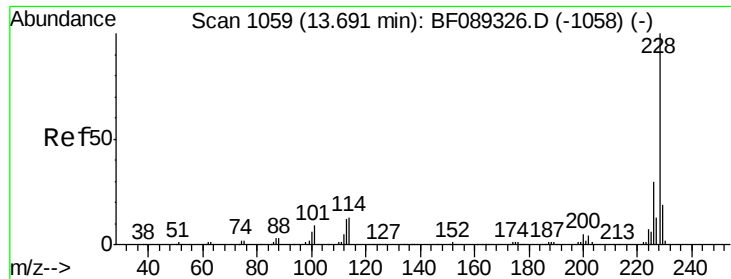


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.16 ng m

RT: 13.67 min Scan# 1057

Delta R.T. -0.02 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

Instrument :

BNA\_F

ClientSampleId :

SP-5(LOT112BACK)0-1

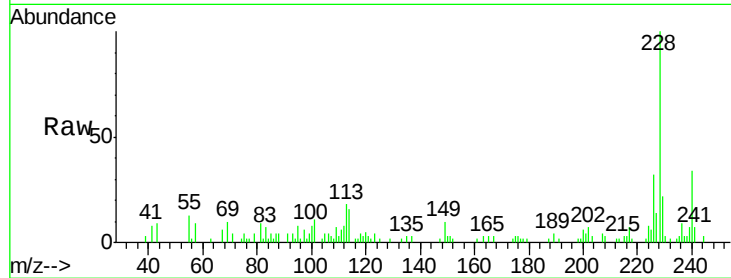
Tgt Ion:228 Resp: 25801

Ion Ratio Lower Upper

228 100

226 32.5 24.2 36.2

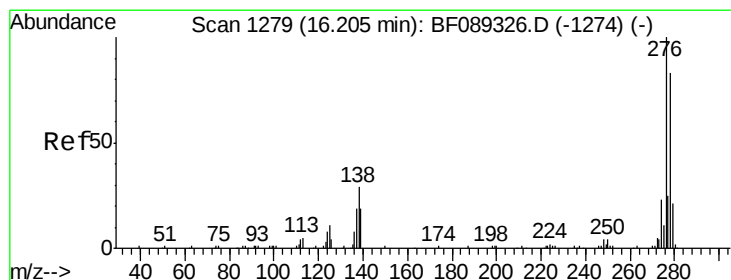
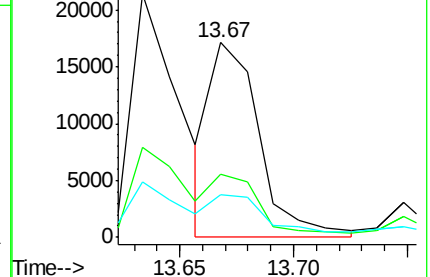
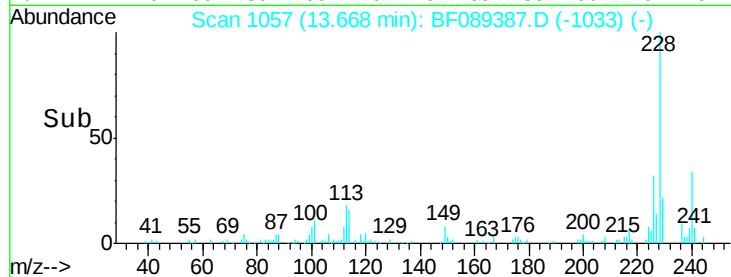
229 21.9 15.9 23.9



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: 3.39 ng

RT: 16.18 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

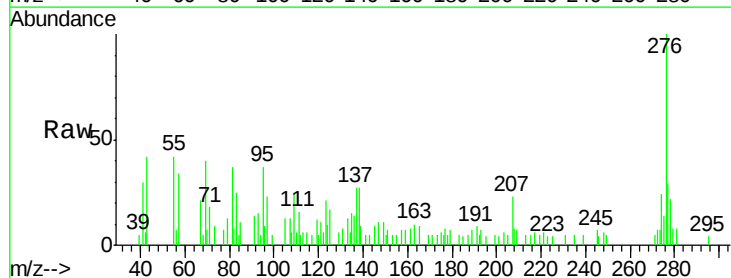
Tgt Ion:276 Resp: 14950

Ion Ratio Lower Upper

276 100

138 22.7 23.0 34.4#

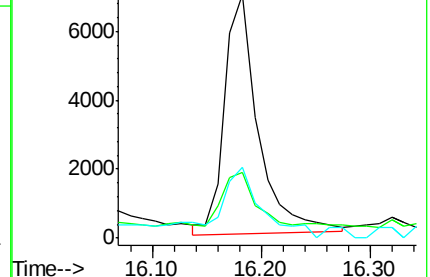
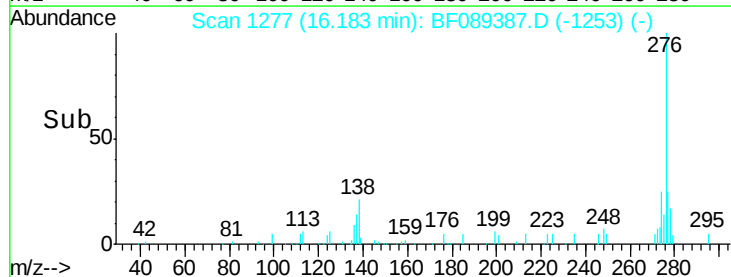
277 38.5 20.2 30.4#

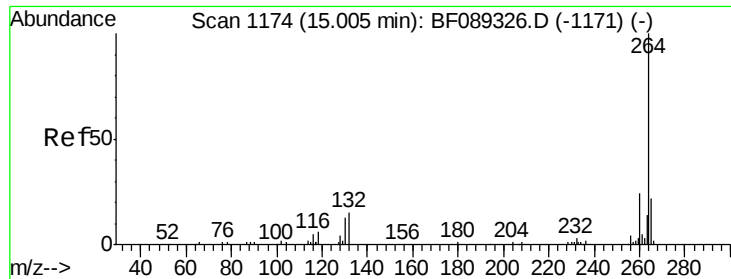


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

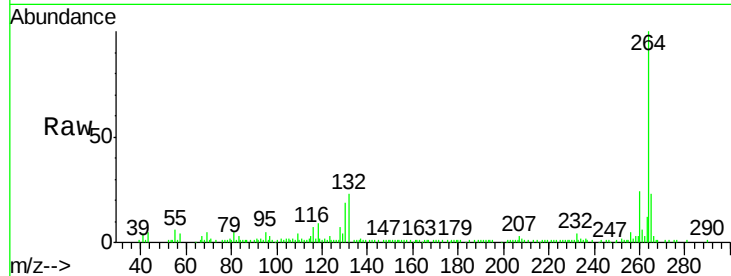




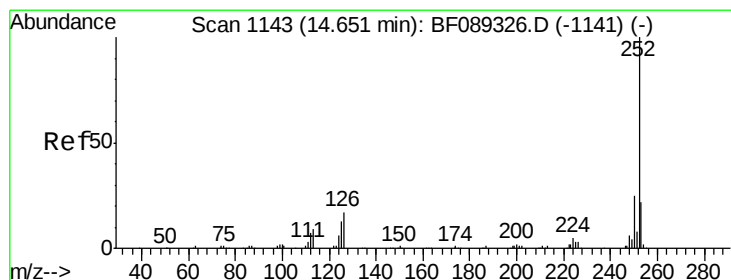
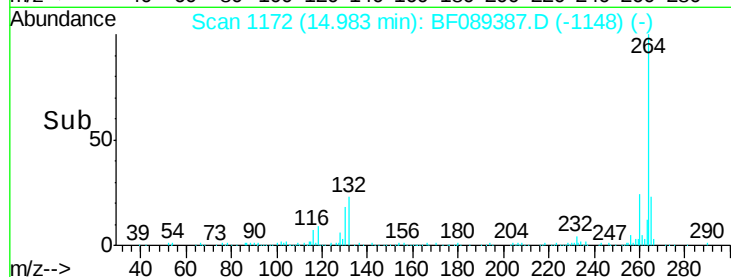
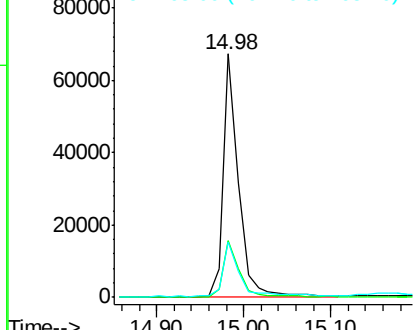
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 14.98 min Scan# 1172  
Delta R.T. -0.02 min  
Lab File: BF089387.D  
Acq: 29 Jul 2016 3:04

Instrument :  
BNA\_F  
ClientSampleId :  
SP-5(LOT112BACK)0-1

Tgt Ion:264 Resp: 83502  
Ion Ratio Lower Upper  
264 100  
260 23.5 19.0 28.4  
265 22.7 17.5 26.3

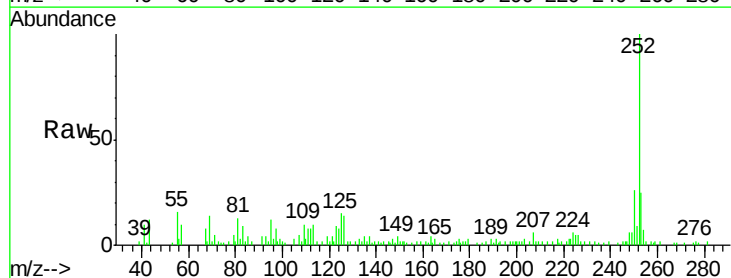


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

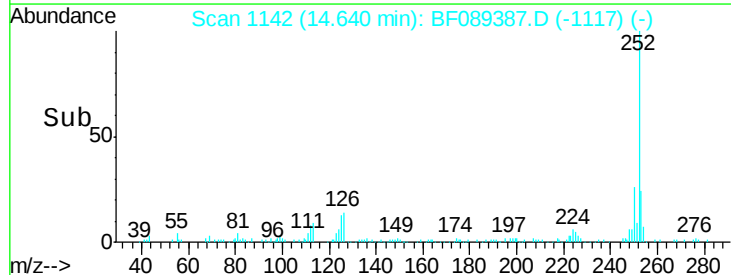
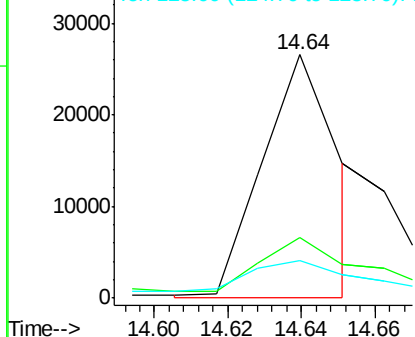


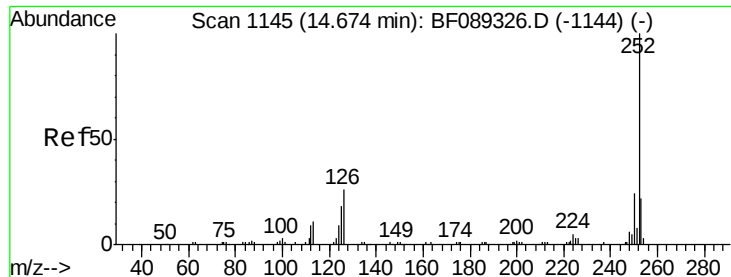
#87  
Benzo(b)fluoranthene  
Concen: 7.31 ng m  
RT: 14.64 min Scan# 1142  
Delta R.T. -0.01 min  
Lab File: BF089387.D  
Acq: 29 Jul 2016 3:04

Tgt Ion:252 Resp: 37906  
Ion Ratio Lower Upper  
252 100  
253 24.7 17.2 25.8  
125 15.4 9.7 14.5#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 2.42 ng m

RT: 14.65 min Scan# 1143

Delta R.T. -0.02 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

Instrument :

BNA\_F

ClientSampleId :

SP-5(LOT112BACK)0-1

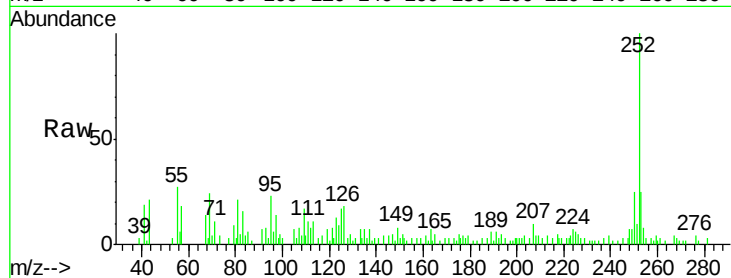
Tgt Ion:252 Resp: 11538

Ion Ratio Lower Upper

252 100

253 25.2 17.8 26.8

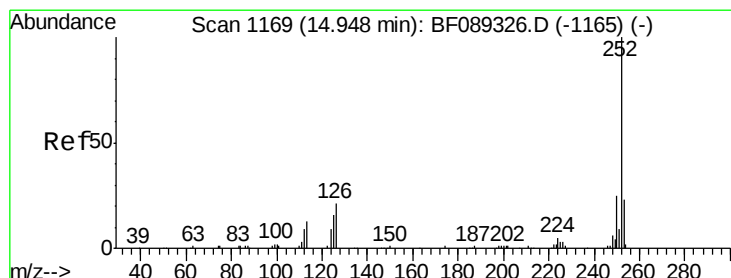
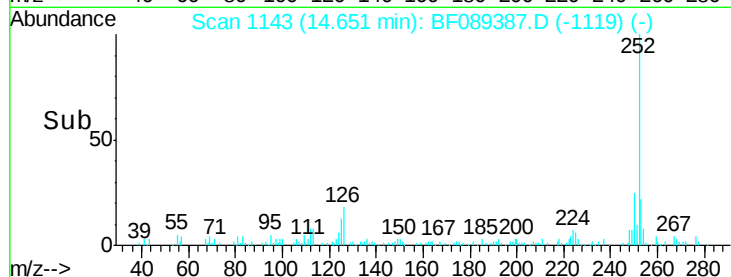
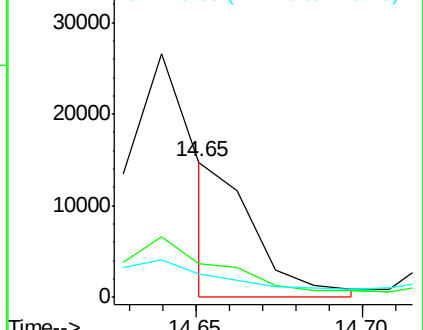
125 17.5 10.7 16.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 5.66 ng

RT: 14.94 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

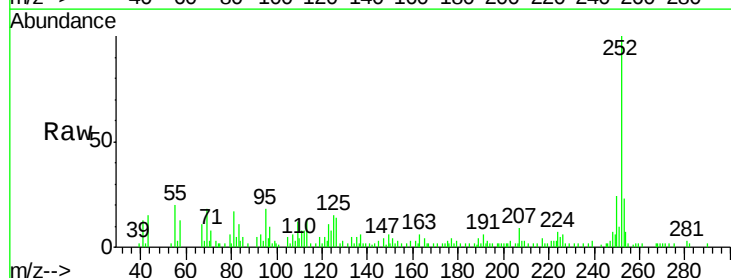
Tgt Ion:252 Resp: 26322

Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.2

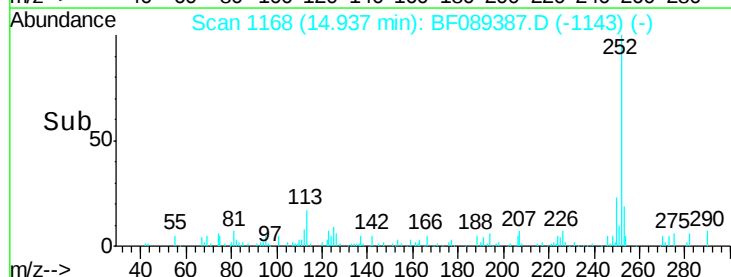
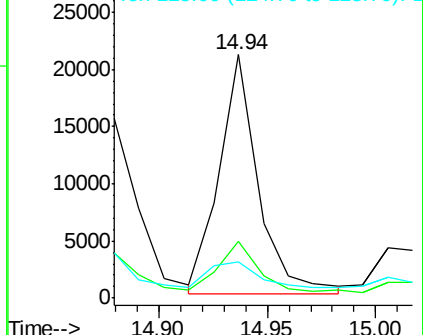
125 14.9 12.4 18.6

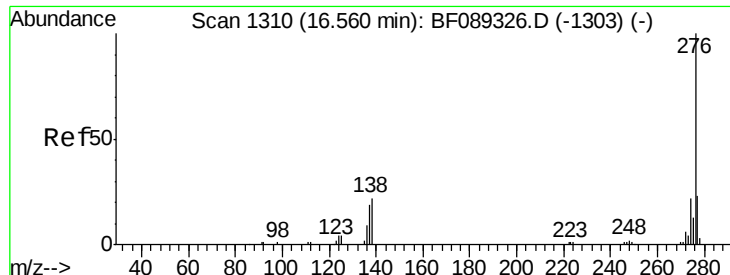


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(g,h,i)perylene

Concen: 4.83 ng

RT: 16.54 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF089387.D

Acq: 29 Jul 2016 3:04

Instrument :

BNA\_F

ClientSampleId :

SP-5(LOT112BACK)0-1

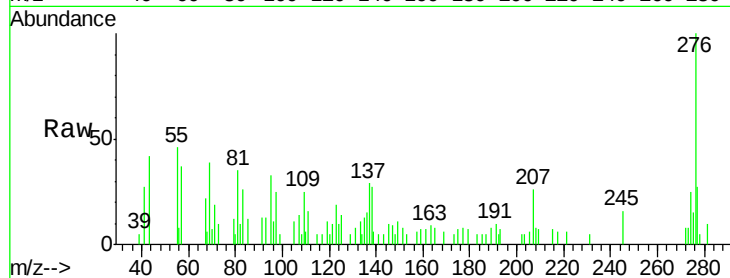
Tgt Ion: 276 Resp: 17405

Ion Ratio Lower Upper

276 100

277 26.5 18.6 28.0

138 26.9 21.4 32.0



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

