

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF110716\  
 Data File : BF091074.D  
 Acq On : 7 Nov 2016 23:34  
 Operator : UM/SJ  
 Sample : H5509-17DL 150X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-1DL

Quant Time: Nov 08 00:00:28 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 04 11:03:12 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.67  | 152  | 112951   | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 7.96  | 136  | 423894   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10      | 9.71  | 164  | 210975   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10      | 11.20 | 188  | 332844   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12          | 13.83 | 240  | 353359   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 15.21 | 264  | 322014   | 20.00 | ng    | -0.03    |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 5) 2-Fluorophenol           | 5.29  | 112 | 3761  | 0.55 | ng | 0.00  |
| 7) Phenol-d6                | 6.35  | 99  | 6329  | 0.68 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.25  | 82  | 788   | 0.10 | ng | -0.02 |
| 41) 2,4,6-Tribromophenol    | 10.51 | 330 | 833   | 0.44 | ng | -0.02 |
| 44) 2-Fluorobiphenyl        | 9.04  | 172 | 7765  | 0.63 | ng | -0.03 |
| 78) Terphenyl-d14           | 12.77 | 244 | 15843 | 1.12 | ng | -0.03 |

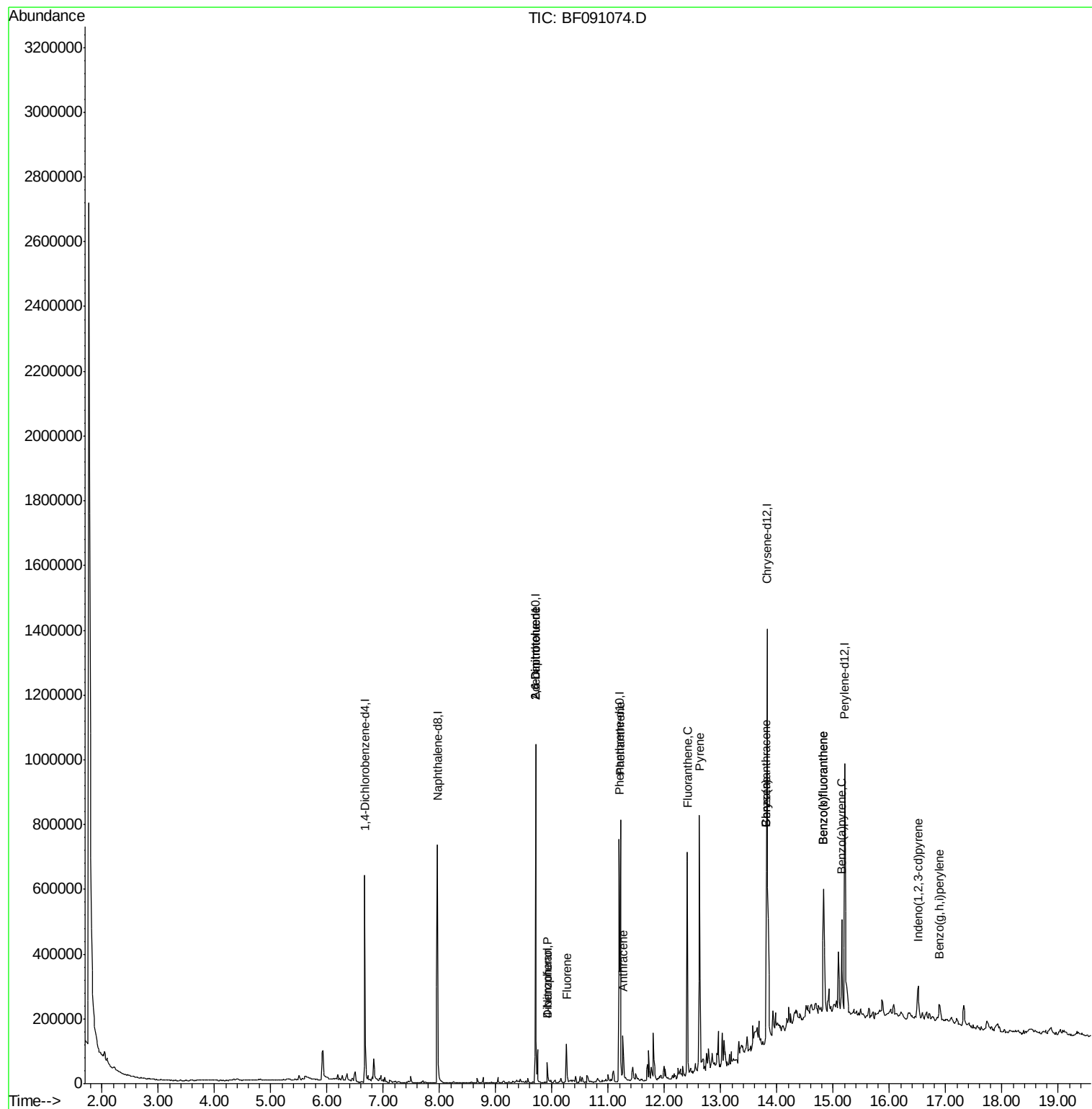
|                            |       |     |        |       |    |        |
|----------------------------|-------|-----|--------|-------|----|--------|
| Target Compounds           |       |     |        |       |    | Qvalue |
| 50) 2,6-Dinitrotoluene     | 9.71  | 165 | 27310  | 9.21  | ng | # 11   |
| 54) Dibenzofuran           | 9.92  | 168 | 32714  | 2.12  | ng | 94     |
| 55) 4-Nitrophenol          | 9.92  | 139 | 11707  | 10.37 | ng | # 1    |
| 56) 2,4-Dinitrotoluene     | 9.71  | 165 | 27528  | 7.30  | ng | # 26   |
| 57) Fluorene               | 10.26 | 166 | 38961  | 3.09  | ng | 99     |
| 70) Phenanthrene           | 11.22 | 178 | 350893 | 19.83 | ng | 97     |
| 71) Anthracene             | 11.26 | 178 | 76665  | 4.08  | ng | 96     |
| 74) Fluoranthene           | 12.41 | 202 | 434608 | 23.68 | ng | 87     |
| 77) Pyrene                 | 12.62 | 202 | 345181 | 14.92 | ng | 97     |
| 80) Benzo(a)anthracene     | 13.81 | 228 | 202635 | 10.10 | ng | 99     |
| 82) Chrysene               | 13.81 | 228 | 202635 | 10.24 | ng | 95     |
| 85) Indeno(1,2,3-cd)pyrene | 16.51 | 276 | 61388  | 3.74  | ng | 95     |
| 87) Benzo(b)fluoranthene   | 14.83 | 252 | 268672 | 12.30 | ng | # 98   |
| 88) Benzo(k)fluoranthene   | 14.83 | 252 | 268672 | 14.02 | ng | 98     |
| 89) Benzo(a)pyrene         | 15.15 | 252 | 115658 | 6.08  | ng | # 93   |
| 91) Benzo(g,h,i)perylene   | 16.89 | 276 | 49239  | 3.31  | ng | 93     |

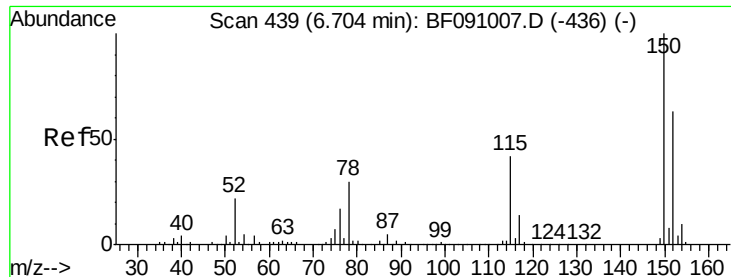
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 04 11:03:12 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.67 min Scan# 436

Delta R.T. -0.03 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

Instrument :

BNA\_F

ClientSampleId :

S-1DL

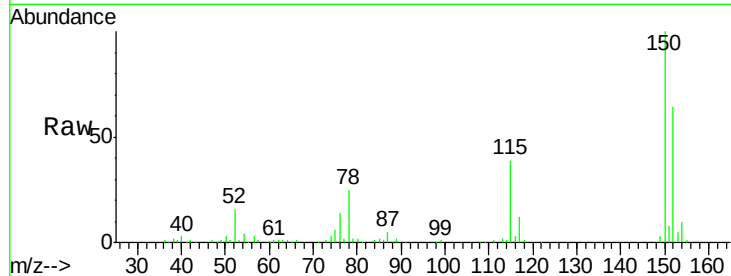
Tgt Ion:152 Resp: 112951

Ion Ratio Lower Upper

152 100

150 155.7 126.8 190.2

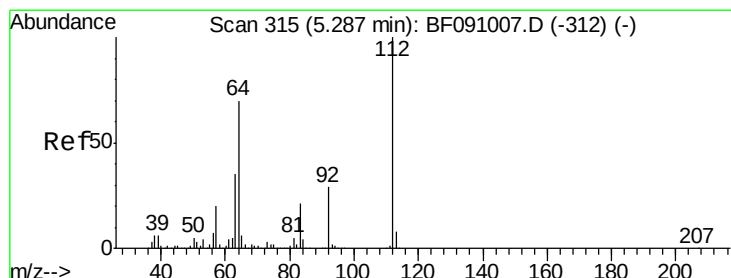
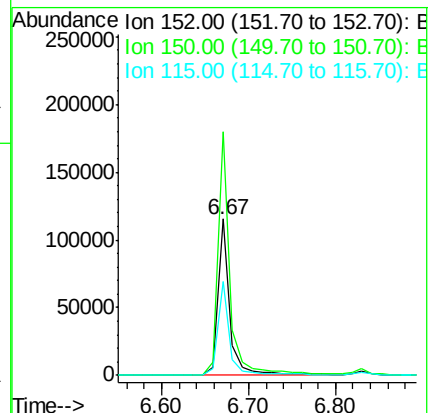
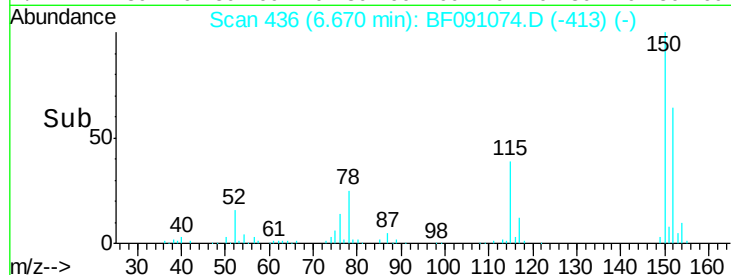
115 60.1 53.3 79.9



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: 0.55 ng

RT: 5.29 min Scan# 315

Delta R.T. -0.00 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

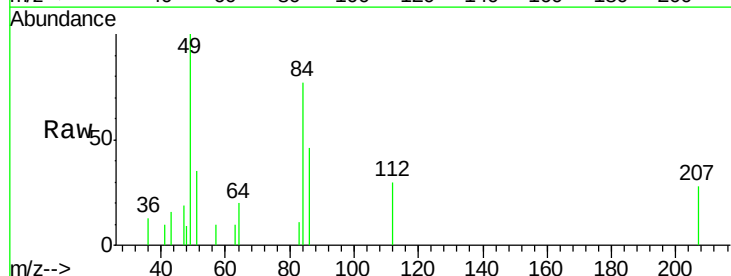
Tgt Ion:112 Resp: 3761

Ion Ratio Lower Upper

112 100

64 68.7 55.8 83.6

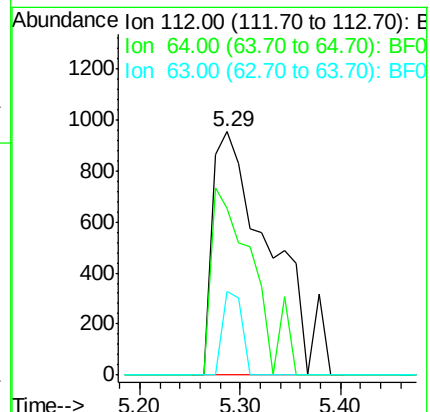
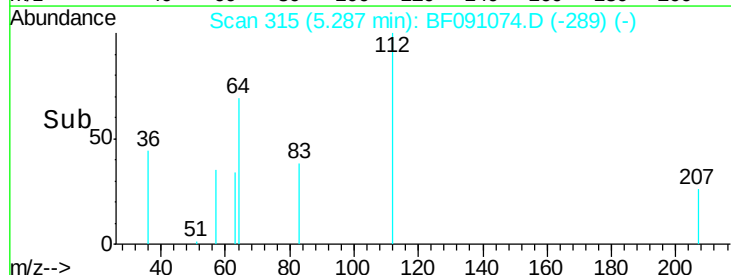
63 34.5 28.0 42.0

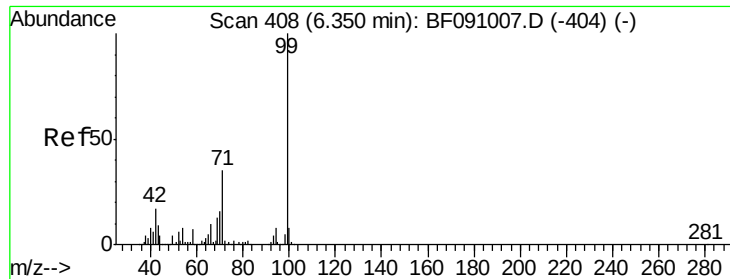


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 0.68 ng

RT: 6.35 min Scan# 408

Delta R.T. -0.00 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

Instrument :

BNA\_F

ClientSampleId :

S-1DL

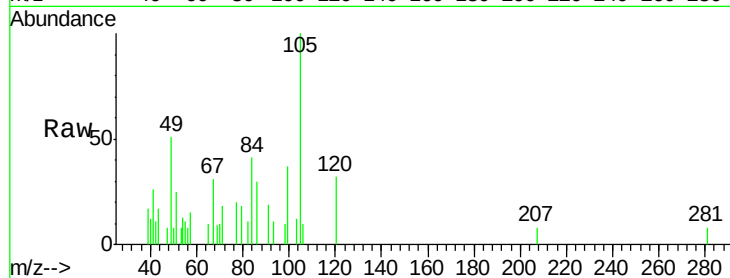
Tgt Ion: 99 Resp: 6329

Ion Ratio Lower Upper

99 100

42 30.7 13.9 20.9#

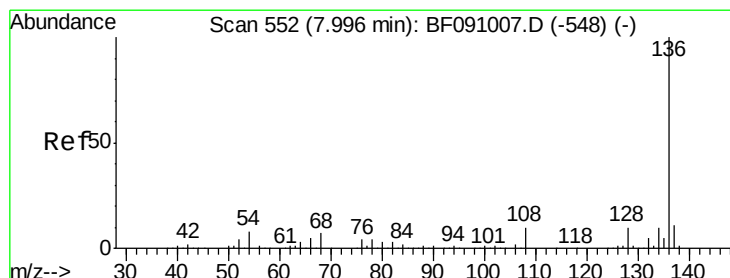
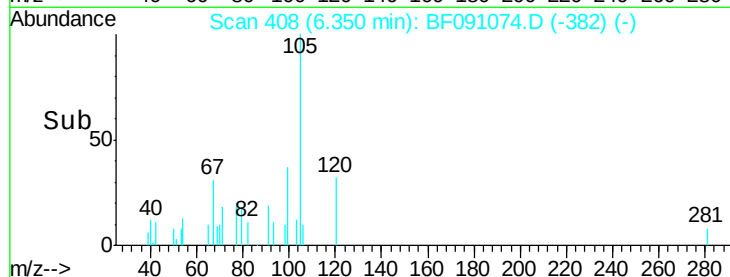
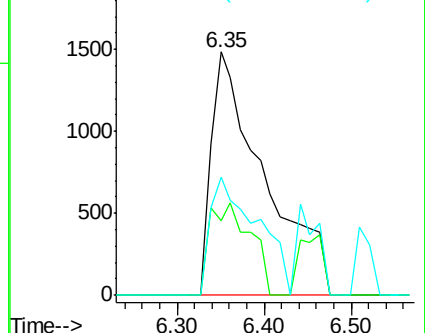
71 48.6 27.8 41.8#



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: 7.96 min Scan# 549

Delta R.T. -0.03 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

Tgt Ion: 136 Resp: 423894

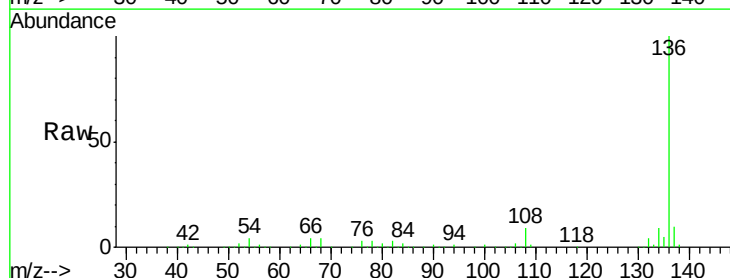
Ion Ratio Lower Upper

136 100

137 10.5 8.9 13.3

54 4.5 6.2 9.2#

68 4.4 5.5 8.3#

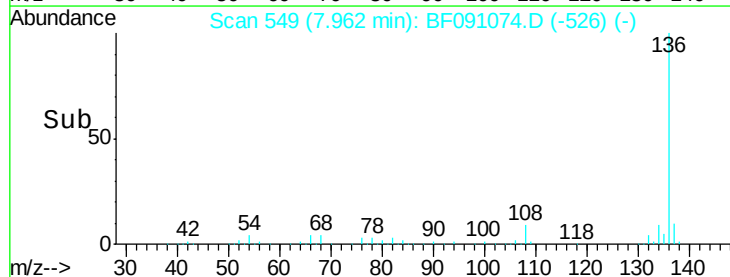
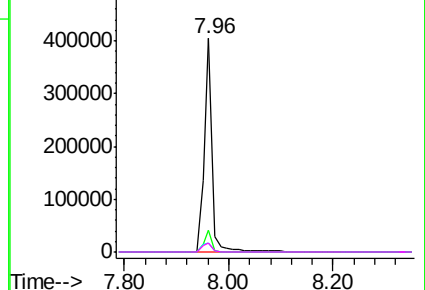


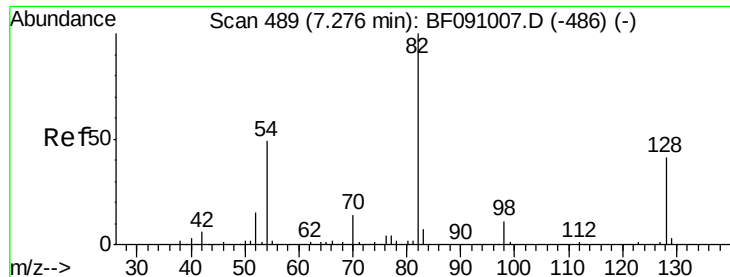
Abundance Ion 136.00 (135.70 to 136.70): E

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

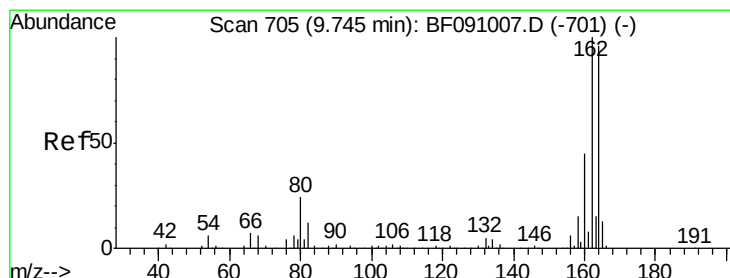
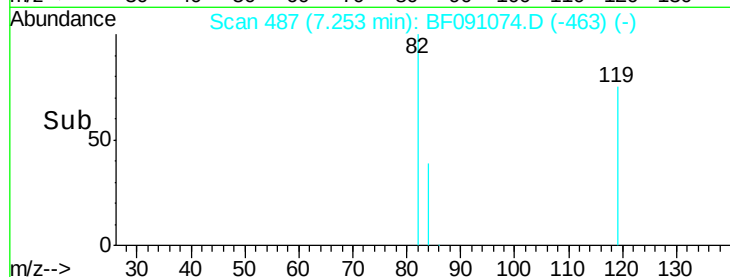
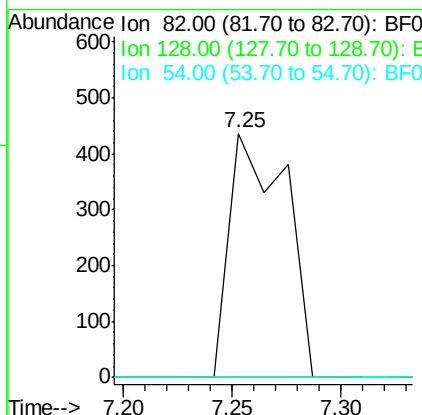
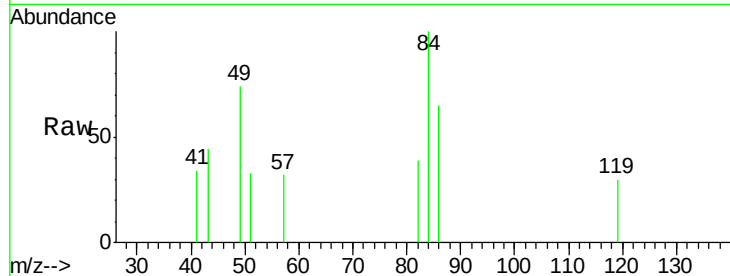




#23  
 Nitrobenzene-d5  
 Concen: 0.10 ng  
 RT: 7.25 min Scan# 487  
 Delta R.T. -0.02 min  
 Lab File: BF091074.D  
 Acq: 7 Nov 2016 23:34

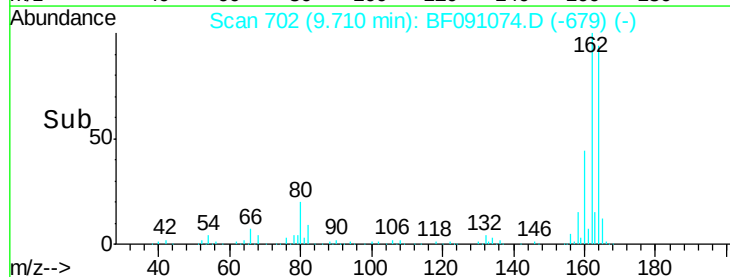
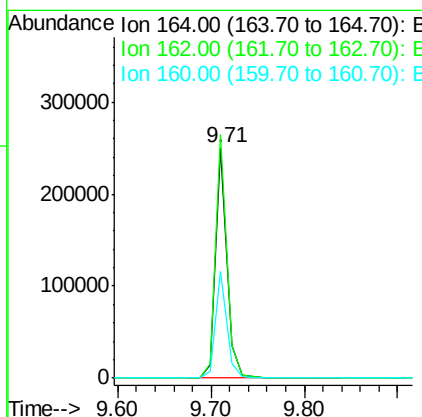
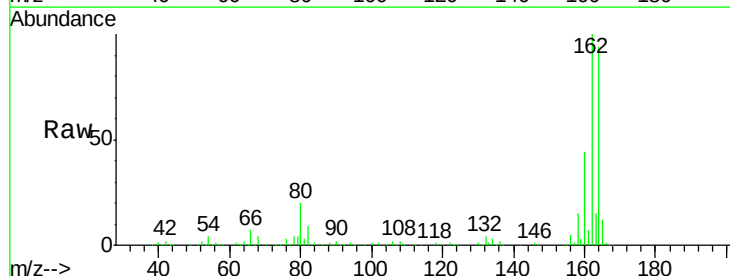
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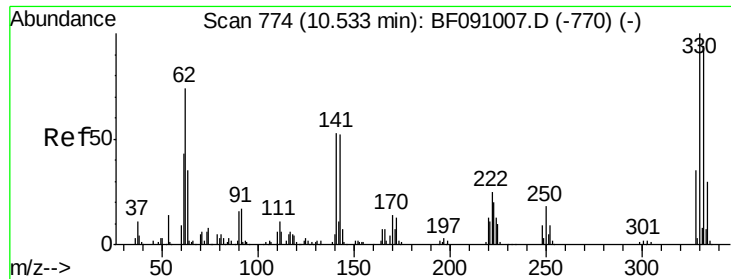
Tgt Ion: 82 Resp: 788  
 Ion Ratio Lower Upper  
 82 100  
 128 0.0 32.4 48.6#  
 54 0.0 39.2 58.8#



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.71 min Scan# 702  
 Delta R.T. -0.03 min  
 Lab File: BF091074.D  
 Acq: 7 Nov 2016 23:34

Tgt Ion: 164 Resp: 210975  
 Ion Ratio Lower Upper  
 164 100  
 162 106.0 83.6 125.4  
 160 46.4 37.9 56.9

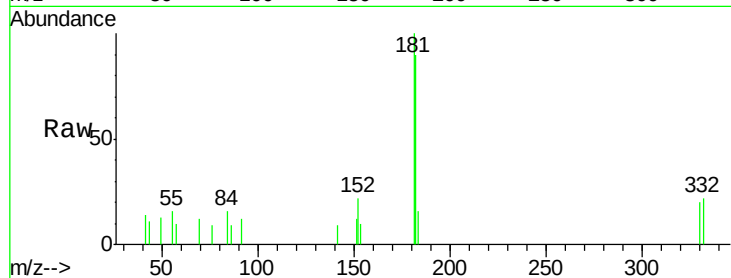




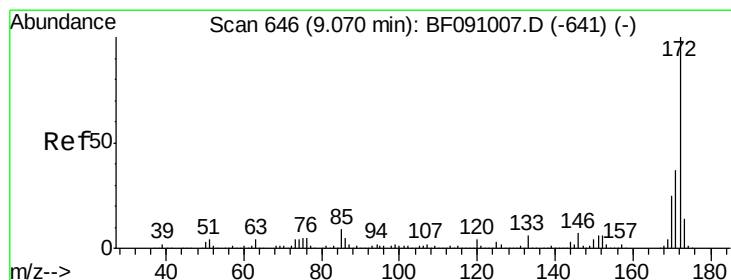
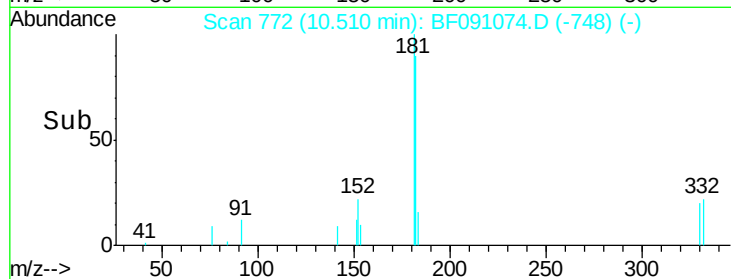
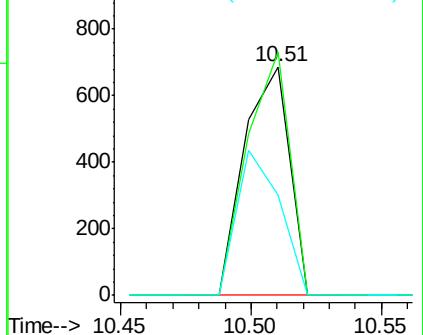
#41  
 2,4,6-Tribromophenol  
 Concen: 0.44 ng  
 RT: 10.51 min Scan# 772  
 Delta R.T. -0.02 min  
 Lab File: BF091074.D  
 Acq: 7 Nov 2016 23:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-1DL

Tgt Ion:330 Resp: 833  
 Ion Ratio Lower Upper  
 330 100  
 332 100.4 75.9 113.9  
 141 60.7 36.1 54.1#

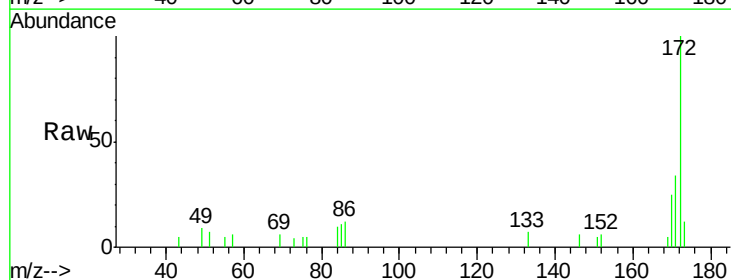


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

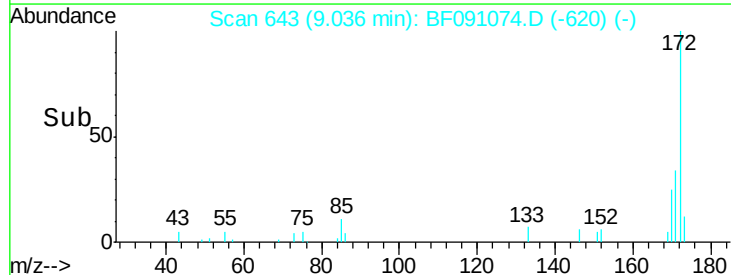
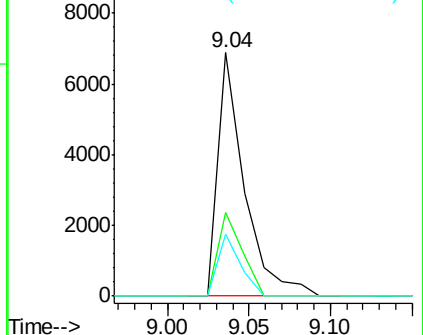


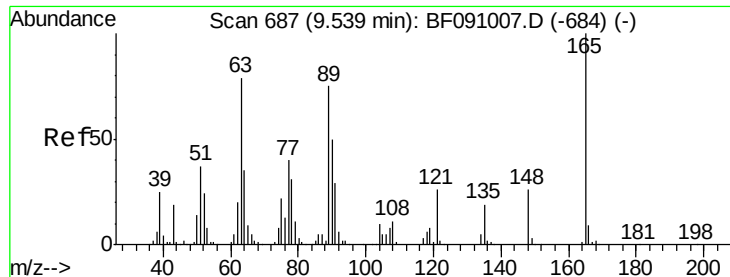
#44  
 2-Fluorobiphenyl  
 Concen: 0.63 ng  
 RT: 9.04 min Scan# 643  
 Delta R.T. -0.03 min  
 Lab File: BF091074.D  
 Acq: 7 Nov 2016 23:34

Tgt Ion:172 Resp: 7765  
 Ion Ratio Lower Upper  
 172 100  
 171 34.4 29.8 44.6  
 170 25.4 20.3 30.5



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

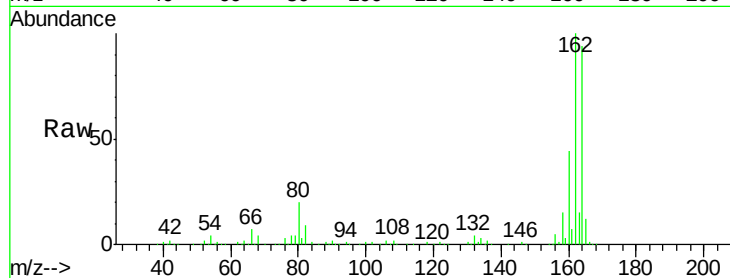




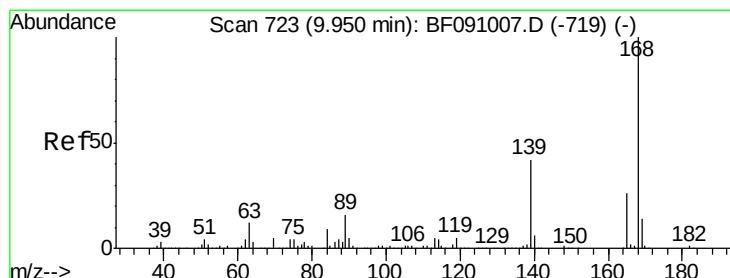
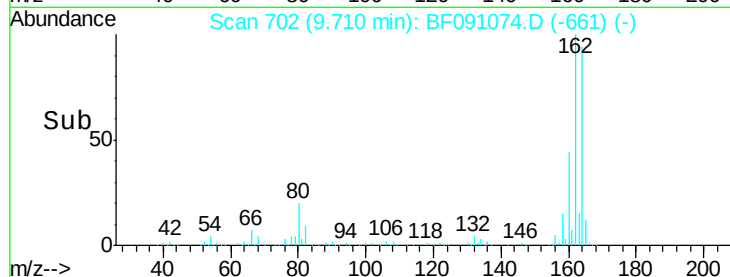
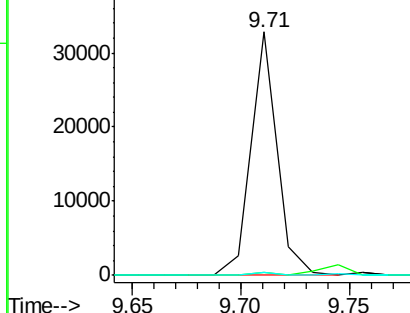
#50  
2,6-Dinitrotoluene  
Concen: 9.21 ng  
RT: 9.71 min Scan# 702  
Delta R.T. 0.17 min  
Lab File: BF091074.D  
Acq: 7 Nov 2016 23:34

Instrument :  
BNA\_F  
ClientSampleId :  
S-1DL

Tgt Ion:165 Resp: 27310  
Ion Ratio Lower Upper  
165 100  
63 1.0 65.6 98.4#  
89 1.1 59.8 89.6#

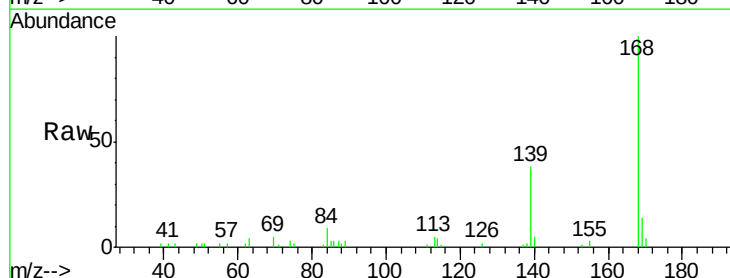


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

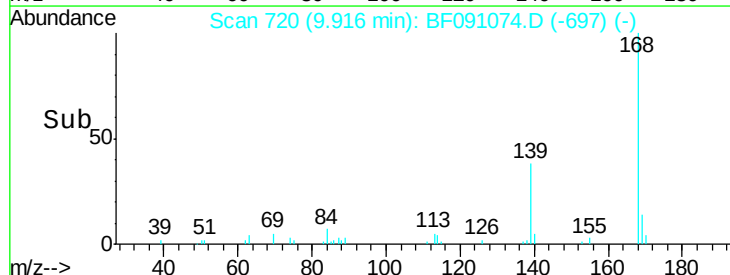
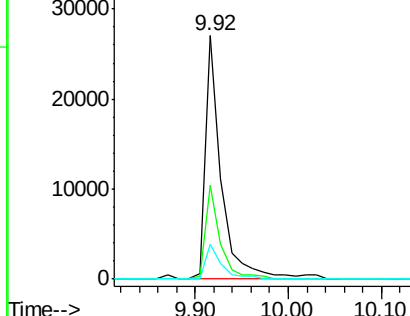


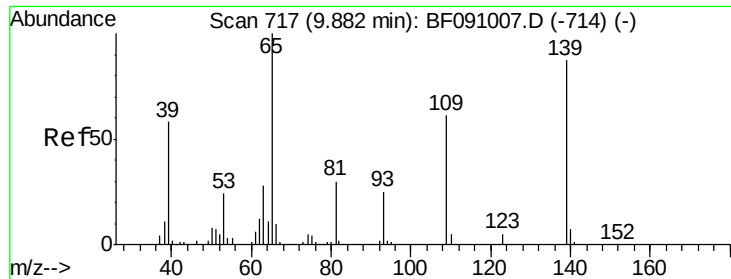
#54  
Dibenzofuran  
Concen: 2.12 ng  
RT: 9.92 min Scan# 720  
Delta R.T. -0.03 min  
Lab File: BF091074.D  
Acq: 7 Nov 2016 23:34

Tgt Ion:168 Resp: 32714  
Ion Ratio Lower Upper  
168 100  
139 38.4 34.8 52.2  
169 14.4 11.4 17.2



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

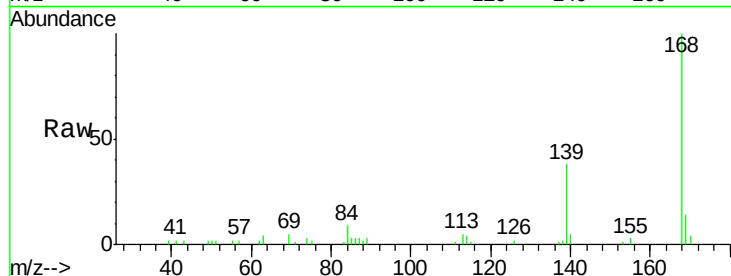




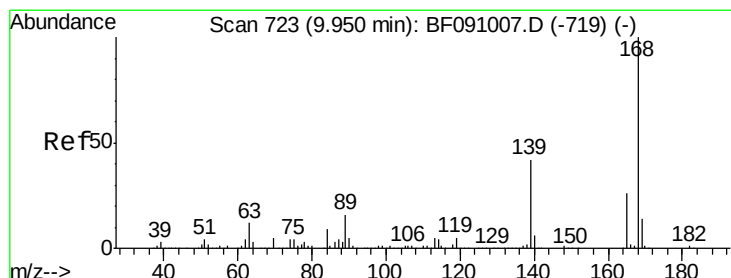
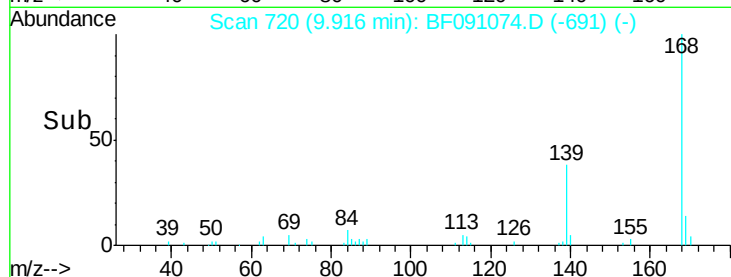
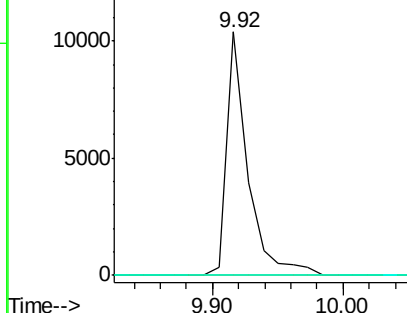
#55  
4-Nitrophenol  
Concen: 10.37 ng  
RT: 9.92 min Scan# 720  
Delta R.T. 0.04 min  
Lab File: BF091074.D  
Acq: 7 Nov 2016 23:34

Instrument :  
BNA\_F  
ClientSampled :  
S-1DL

Tgt Ion:139 Resp: 11707  
Ion Ratio Lower Upper  
139 100  
109 0.0 50.5 90.5#  
65 0.0 97.1 137.1#

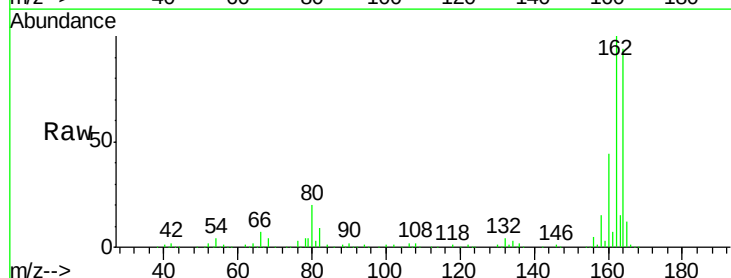


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF0

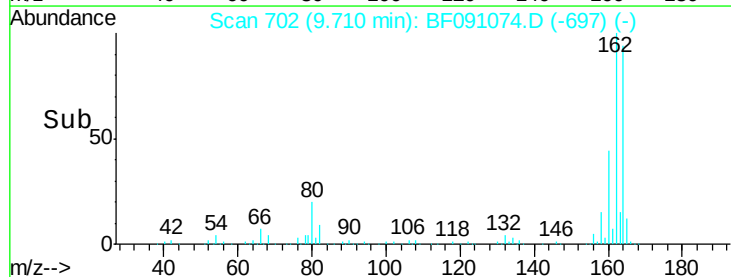
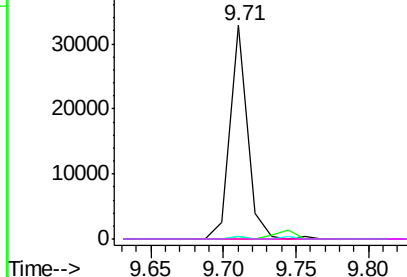


#56  
2,4-Dinitrotoluene  
Concen: 7.30 ng  
RT: 9.71 min Scan# 702  
Delta R.T. -0.24 min  
Lab File: BF091074.D  
Acq: 7 Nov 2016 23:34

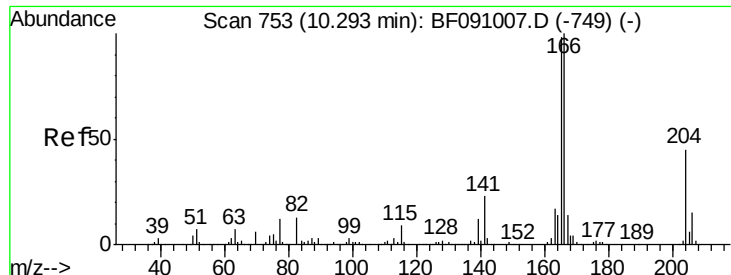
Tgt Ion:165 Resp: 27528  
Ion Ratio Lower Upper  
165 100  
63 1.0 38.7 58.1#  
89 1.1 50.6 76.0#  
182 0.0 1.8 2.8#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0  
Ion 182.00 (181.70 to 182.70): E



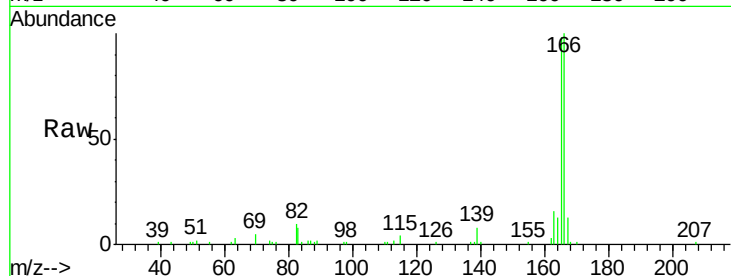




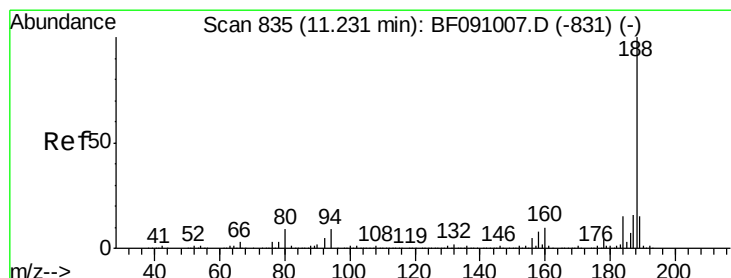
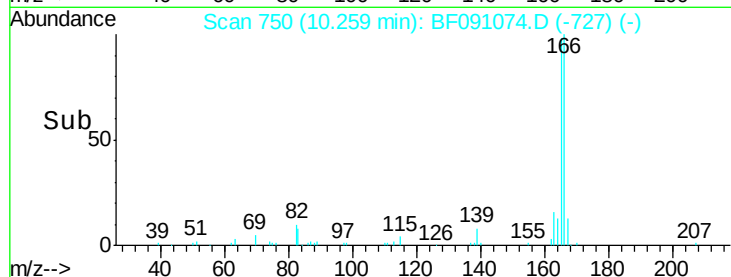
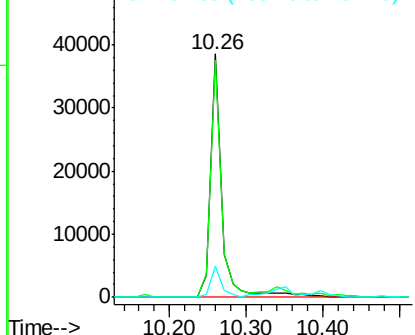
#57  
**Fluorene**  
 Concen: 3.09 ng  
 RT: 10.26 min Scan# 750  
 Delta R.T. -0.03 min  
 Lab File: BF091074.D  
 Acq: 7 Nov 2016 23:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-1DL

Tgt Ion:166 Resp: 38961  
 Ion Ratio Lower Upper  
 166 100  
 165 97.6 78.6 118.0  
 167 12.8 11.1 16.7

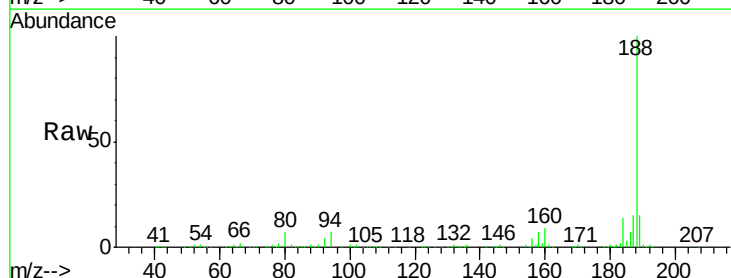


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

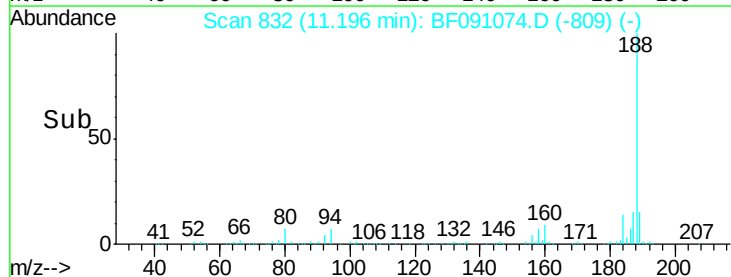
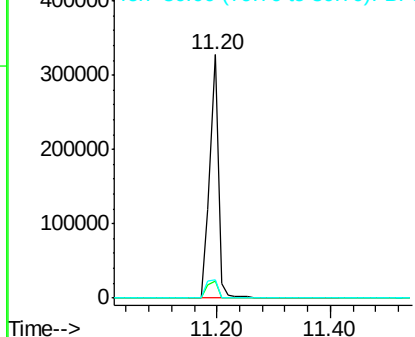


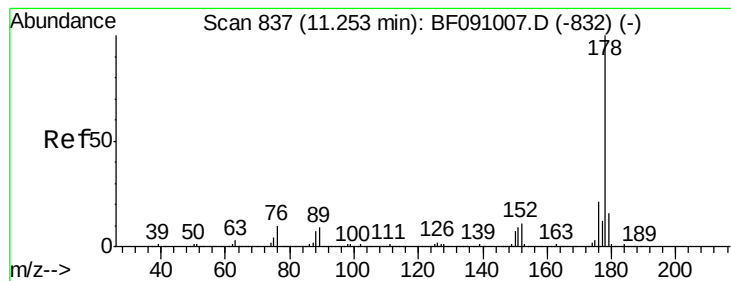
#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 11.20 min Scan# 832  
 Delta R.T. -0.03 min  
 Lab File: BF091074.D  
 Acq: 7 Nov 2016 23:34

Tgt Ion:188 Resp: 332844  
 Ion Ratio Lower Upper  
 188 100  
 94 7.1 7.0 10.4  
 80 7.4 7.5 11.3#



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: 19.83 ng

RT: 11.22 min Scan# 834

Delta R.T. -0.03 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

Instrument :

BNA\_F

ClientSampleId :

S-1DL

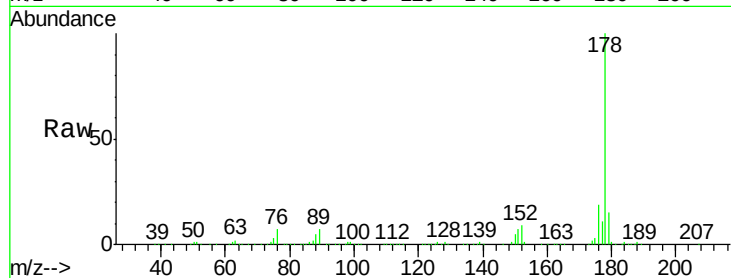
Tgt Ion:178 Resp: 350893

Ion Ratio Lower Upper

178 100

176 19.1 16.6 25.0

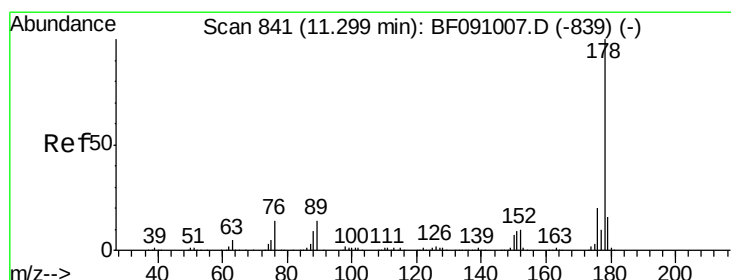
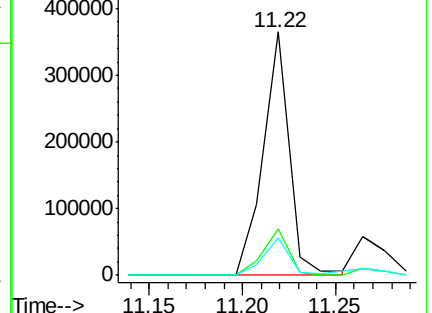
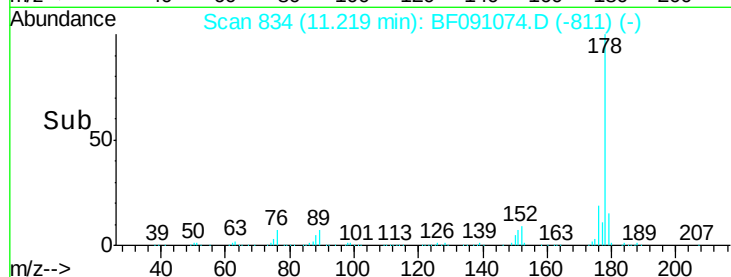
179 15.3 12.9 19.3



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: 4.08 ng

RT: 11.26 min Scan# 838

Delta R.T. -0.03 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

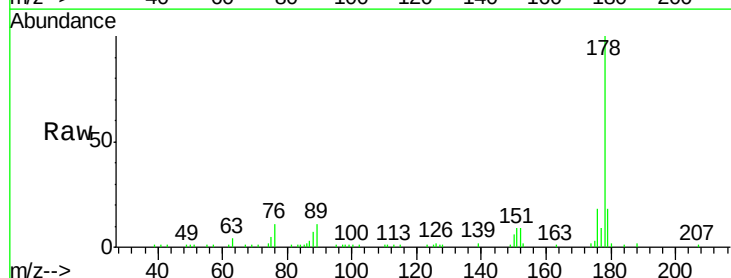
Tgt Ion:178 Resp: 76665

Ion Ratio Lower Upper

178 100

176 17.8 16.0 24.0

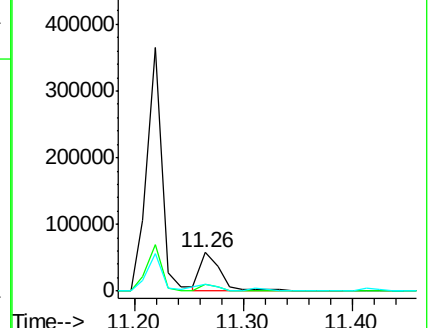
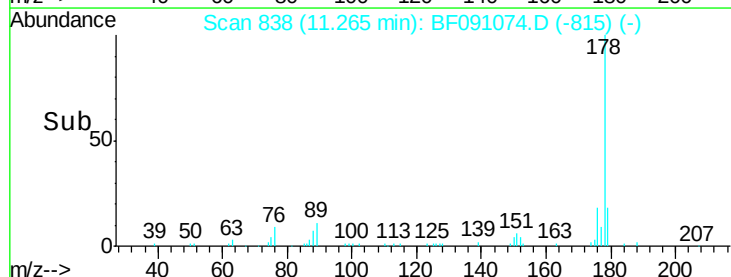
179 17.7 13.0 19.6

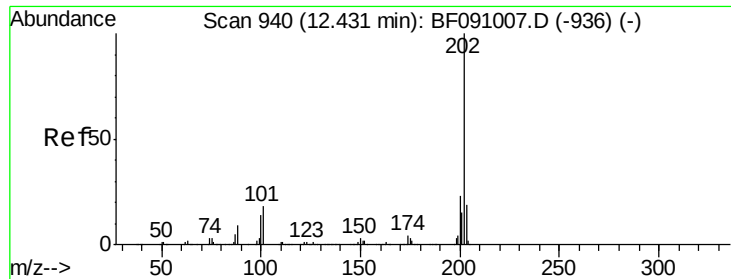


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

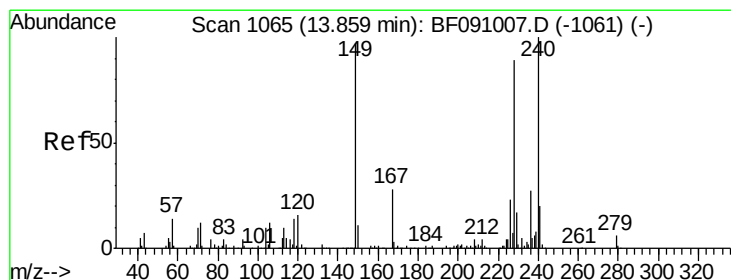
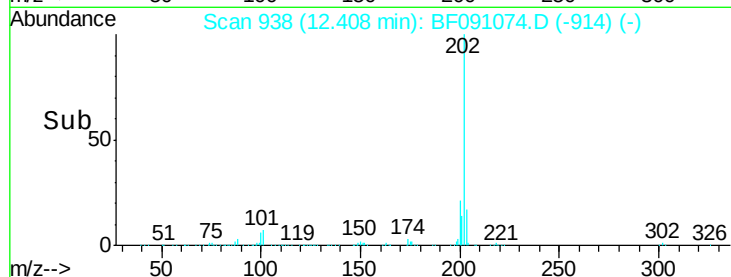
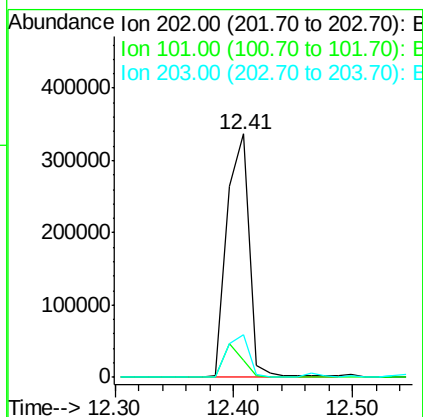
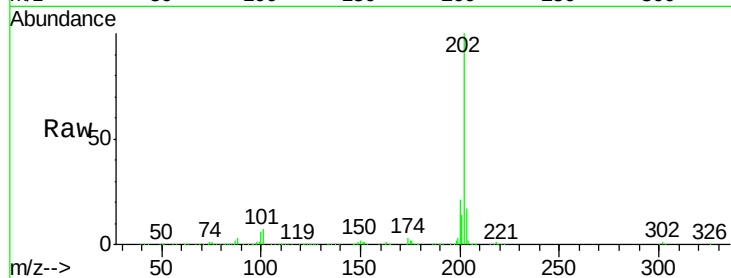




#74  
Fluoranthene  
Concen: 23.68 ng  
RT: 12.41 min Scan# 938  
Delta R.T. -0.02 min  
Lab File: BF091074.D  
Acq: 7 Nov 2016 23:34

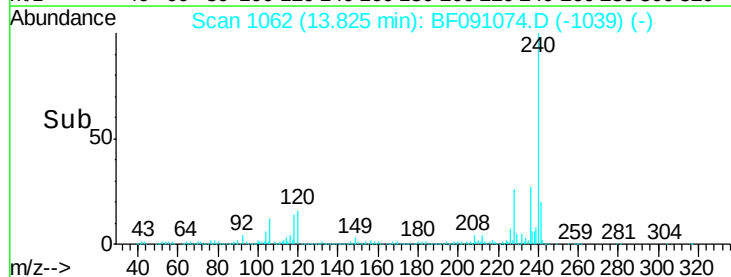
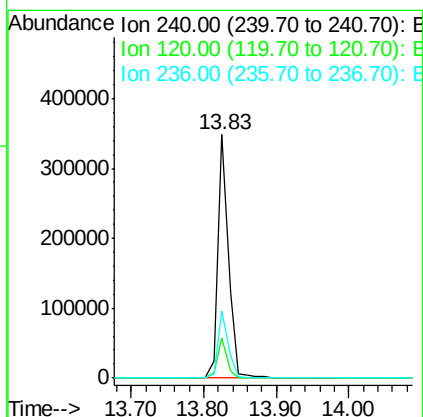
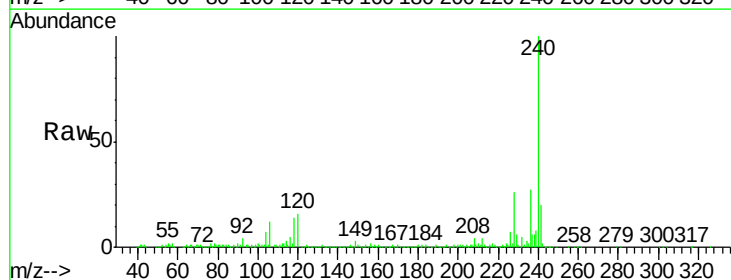
Instrument :  
BNA\_F  
ClientSampleId :  
S-1DL

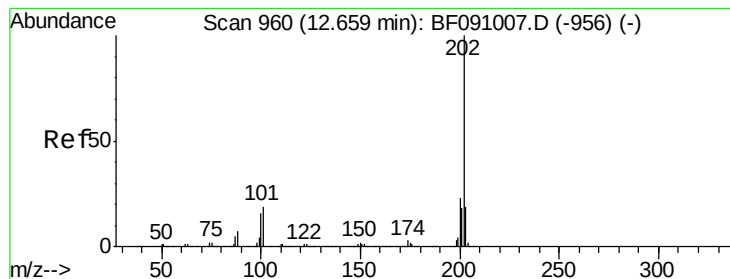
Tgt Ion:202 Resp: 434608  
Ion Ratio Lower Upper  
202 100  
101 7.2 0.0 37.6  
203 17.3 0.0 38.6



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.83 min Scan# 1062  
Delta R.T. -0.03 min  
Lab File: BF091074.D  
Acq: 7 Nov 2016 23:34

Tgt Ion:240 Resp: 353359  
Ion Ratio Lower Upper  
240 100  
120 16.3 12.9 19.3  
236 27.4 21.9 32.9





#77

Pyrene

Concen: 14.92 ng

RT: 12.62 min Scan# 957

Delta R.T. -0.03 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

Instrument :

BNA\_F

ClientSampleId :

S-1DL

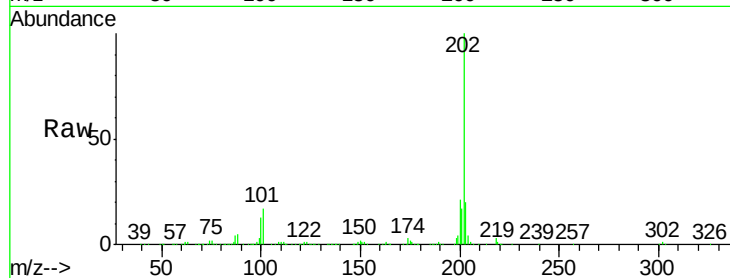
Tgt Ion:202 Resp: 345181

Ion Ratio Lower Upper

202 100

200 21.4 18.4 27.6

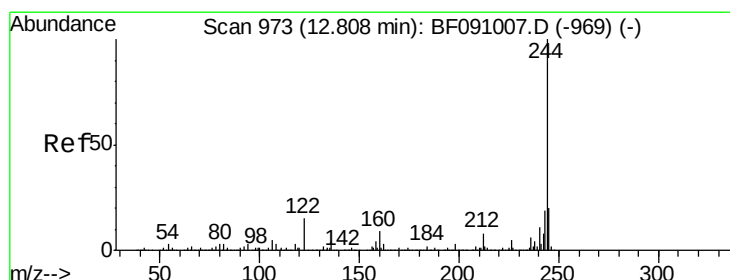
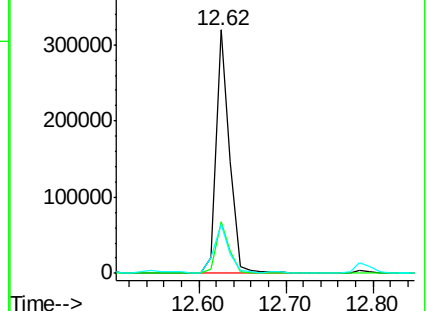
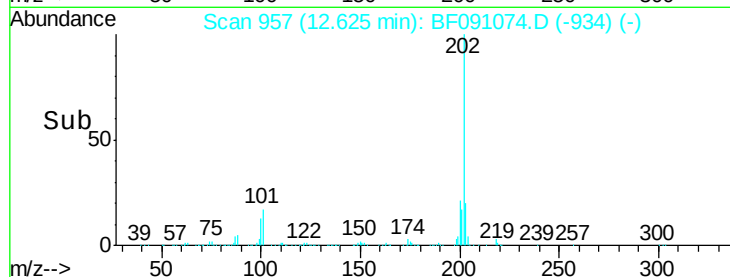
203 20.0 15.0 22.6



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: 1.12 ng

RT: 12.77 min Scan# 970

Delta R.T. -0.03 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

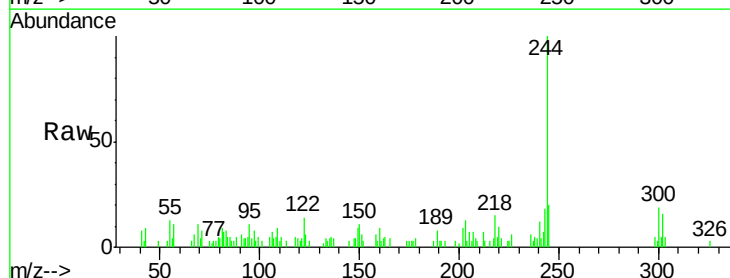
Tgt Ion:244 Resp: 15843

Ion Ratio Lower Upper

244 100

212 7.4 6.4 9.6

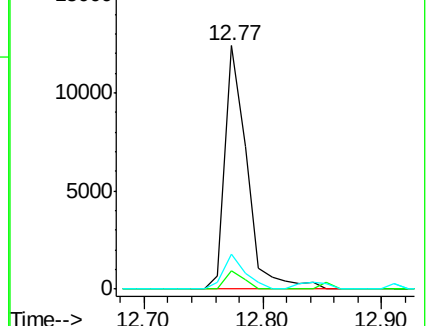
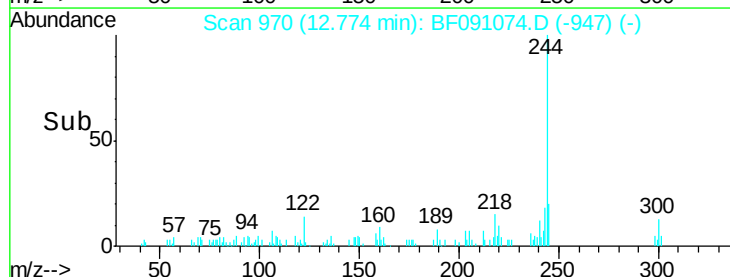
122 14.2 12.3 18.5

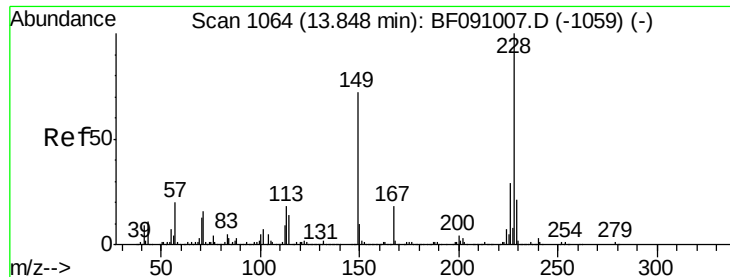


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 10.10 ng

RT: 13.81 min Scan# 1061

Delta R.T. -0.03 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

Instrument :

BNA\_F

ClientSampleId :

S-1DL

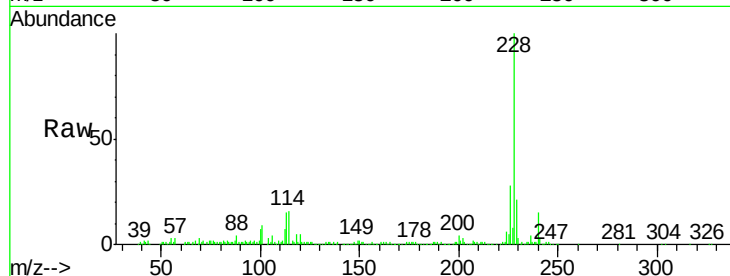
Tgt Ion:228 Resp: 202635

Ion Ratio Lower Upper

228 100

226 27.8 23.0 34.6

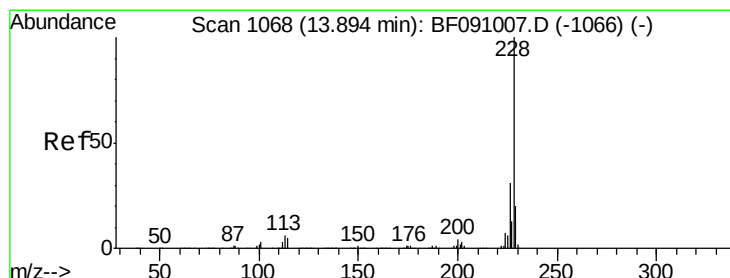
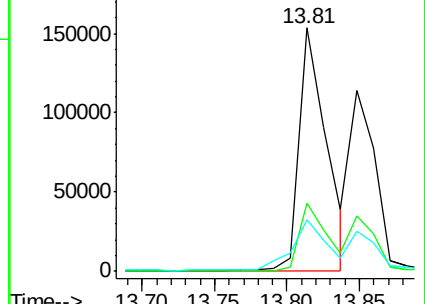
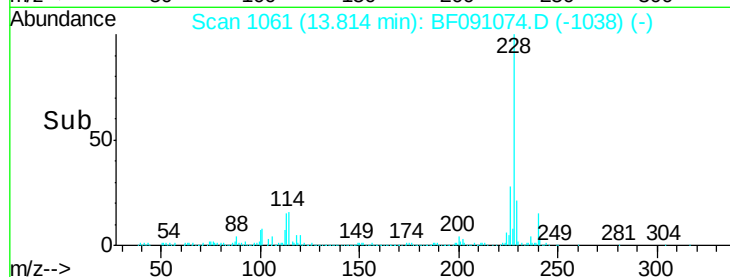
229 21.1 16.6 24.8



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



#82

Chrysene

Concen: 10.24 ng

RT: 13.81 min Scan# 1061

Delta R.T. -0.08 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

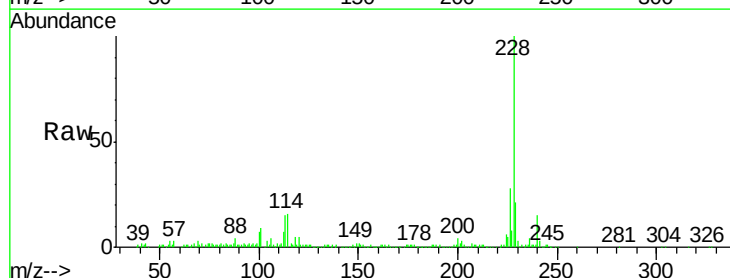
Tgt Ion:228 Resp: 202635

Ion Ratio Lower Upper

228 100

226 27.8 24.9 37.3

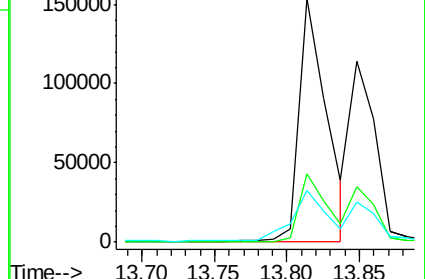
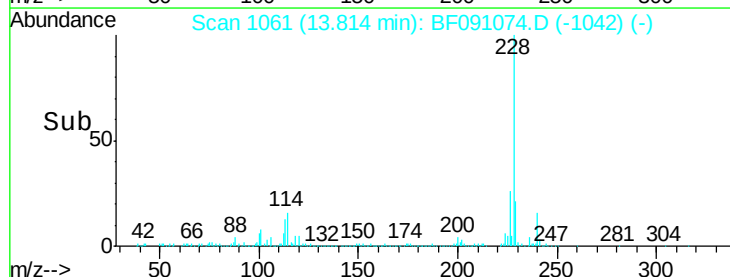
229 21.1 15.9 23.9

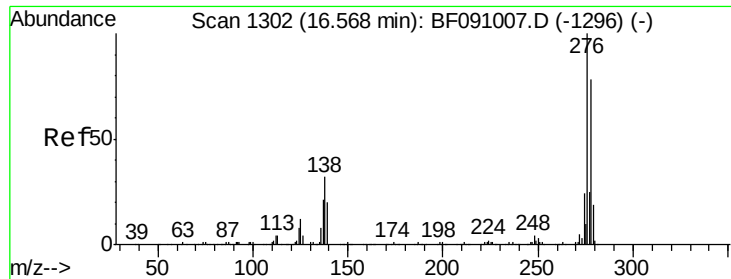


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

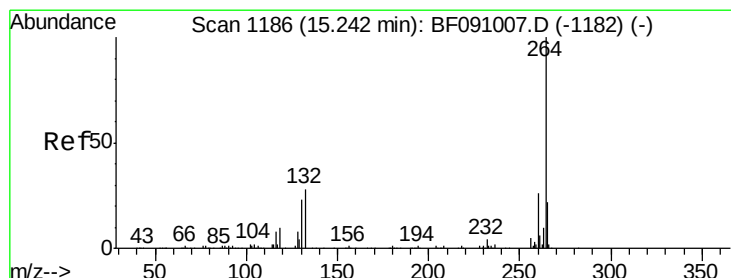
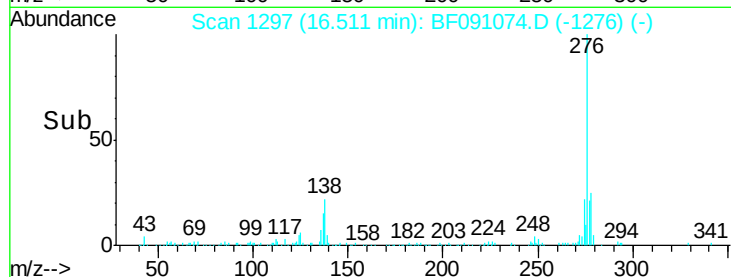
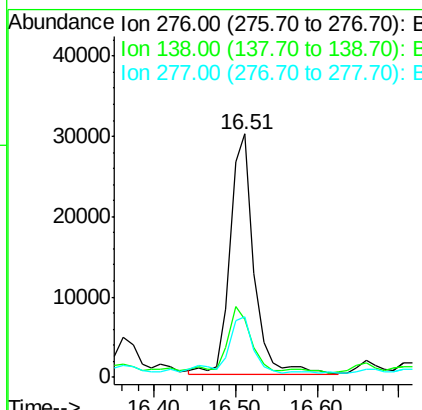
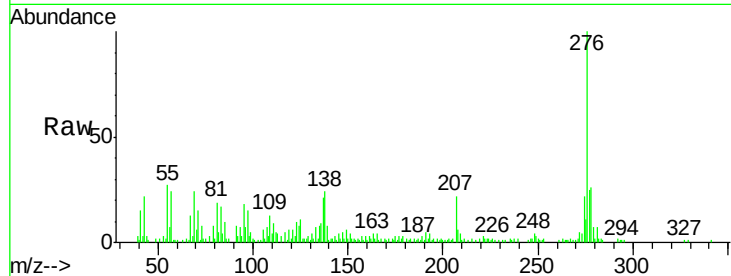




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.74 ng  
 RT: 16.51 min Scan# 1297  
 Delta R.T. -0.06 min  
 Lab File: BF091074.D  
 Acq: 7 Nov 2016 23:34

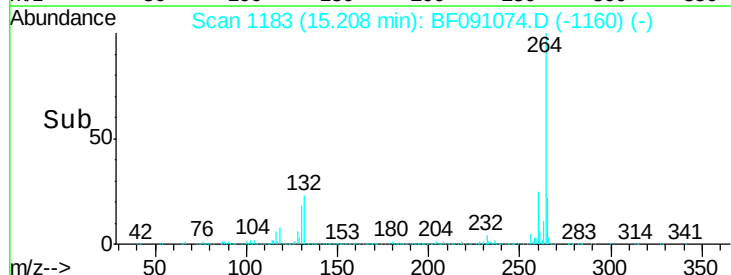
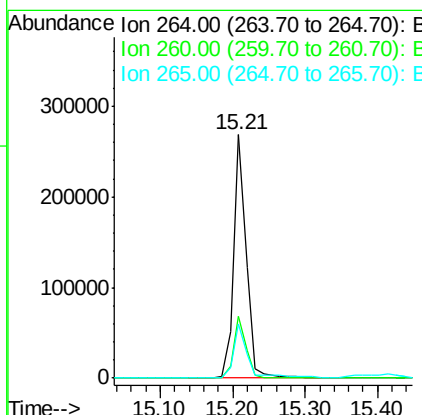
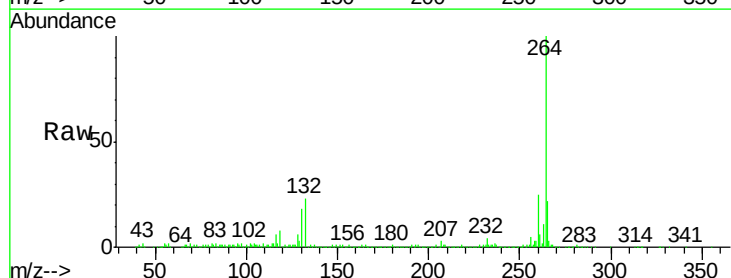
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-1DL

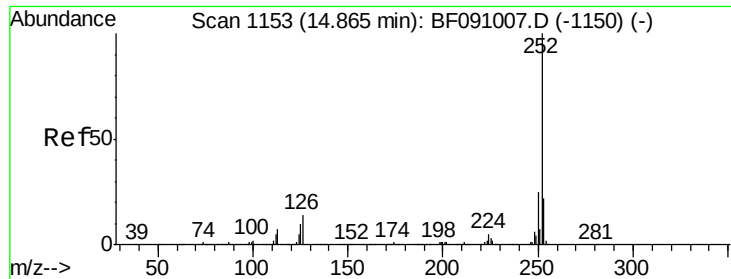
Tgt Ion:276 Resp: 61388  
 Ion Ratio Lower Upper  
 276 100  
 138 28.0 26.0 39.0  
 277 24.9 20.1 30.1



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.21 min Scan# 1183  
 Delta R.T. -0.03 min  
 Lab File: BF091074.D  
 Acq: 7 Nov 2016 23:34

Tgt Ion:264 Resp: 322014  
 Ion Ratio Lower Upper  
 264 100  
 260 25.3 20.6 30.8  
 265 22.5 17.8 26.8





#87

Benzo(b)fluoranthene

Concen: 12.30 ng

RT: 14.83 min Scan# 1150

Delta R.T. -0.03 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

Instrument :

BNA\_F

ClientSampleId :

S-1DL

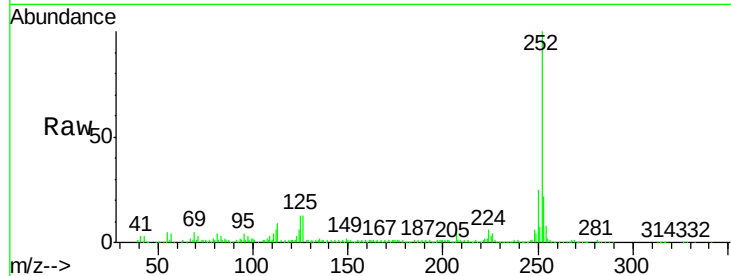
Tgt Ion:252 Resp: 268672

Ion Ratio Lower Upper

252 100

253 22.4 18.0 27.0

125 12.8 8.3 12.5#

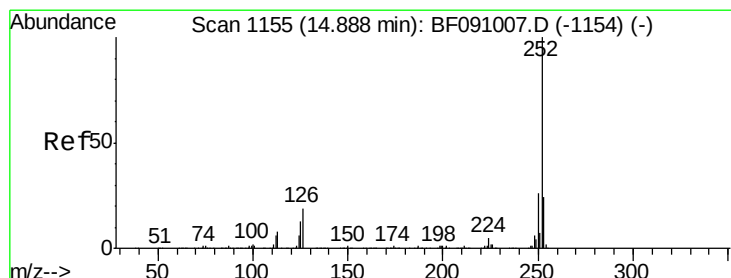
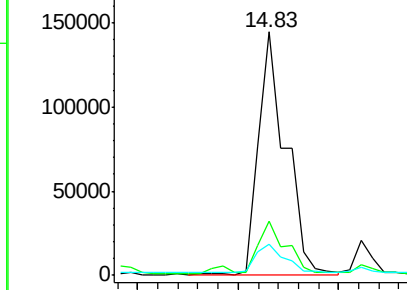
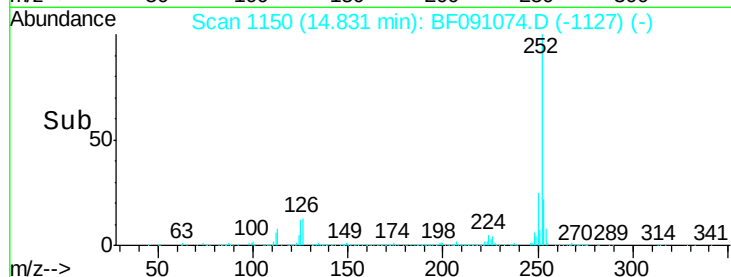


Abundance

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: 14.02 ng

RT: 14.83 min Scan# 1150

Delta R.T. -0.06 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

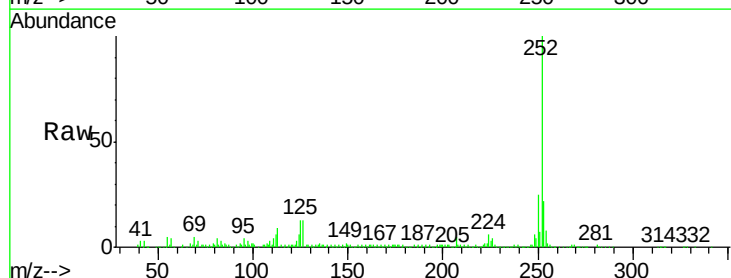
Tgt Ion:252 Resp: 268672

Ion Ratio Lower Upper

252 100

253 22.4 18.6 28.0

125 12.8 11.2 16.8

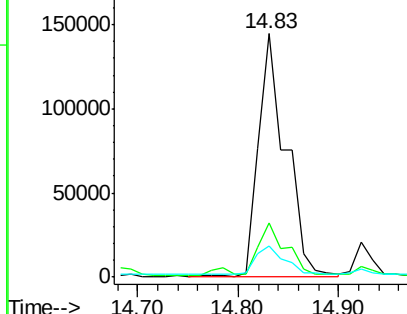
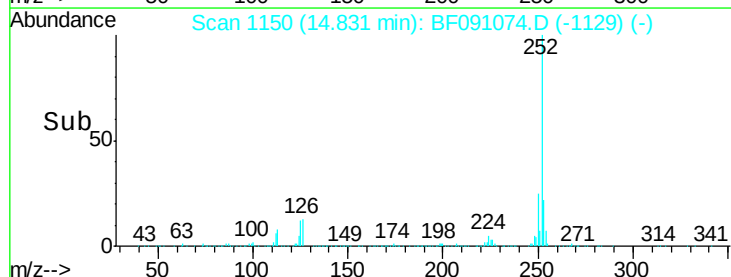


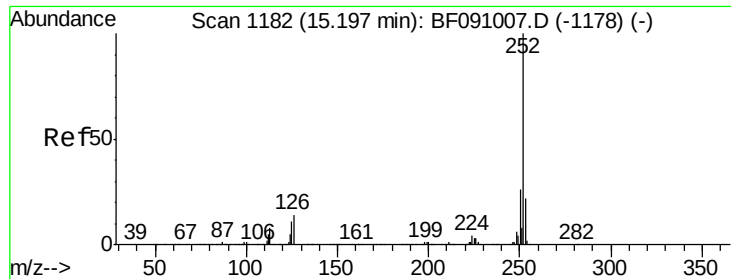
Abundance

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: 6.08 ng

RT: 15.15 min Scan# 1178

Delta R.T. -0.05 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

Instrument :

BNA\_F

ClientSampleId :

S-1DL

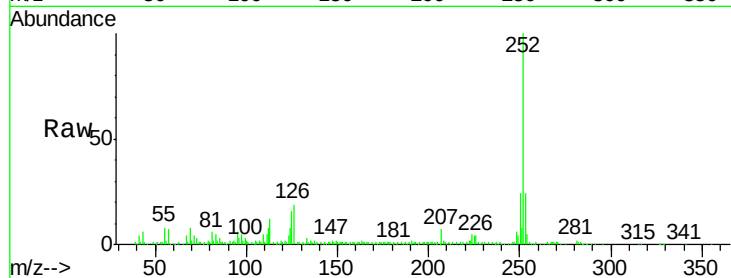
Tgt Ion:252 Resp: 115658

Ion Ratio Lower Upper

252 100

253 23.8 17.8 26.8

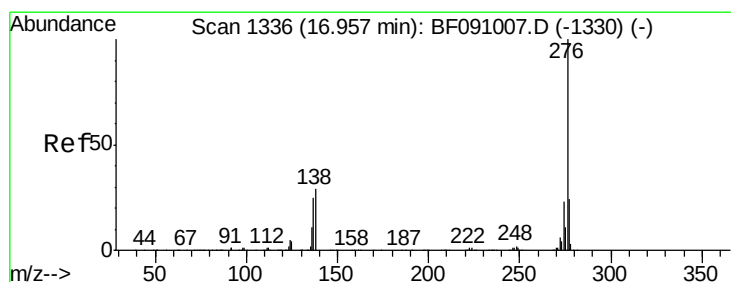
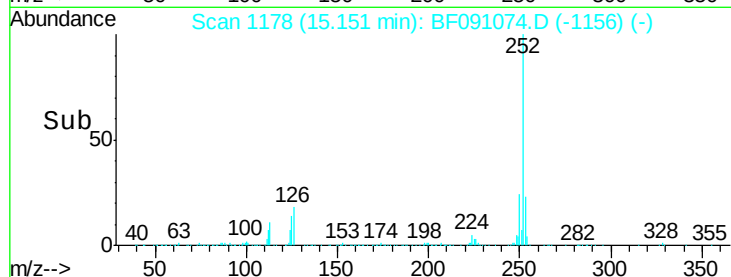
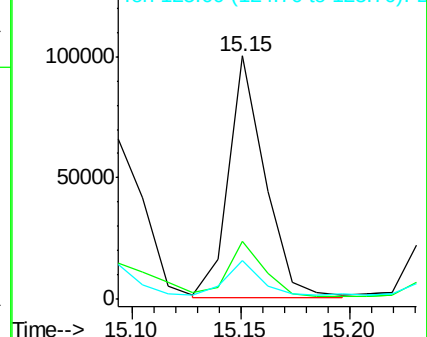
125 16.2 8.6 13.0#



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: 3.31 ng

RT: 16.89 min Scan# 1330

Delta R.T. -0.07 min

Lab File: BF091074.D

Acq: 7 Nov 2016 23:34

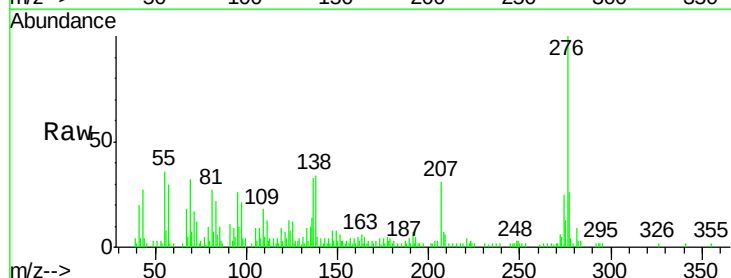
Tgt Ion:276 Resp: 49239

Ion Ratio Lower Upper

276 100

277 26.3 19.2 28.8

138 34.4 23.3 34.9



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

