

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050416\  
 Data File : BF086702.D  
 Acq On : 5 May 2016 3:19  
 Operator : UM/SJ  
 Sample : H2829-07 2X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPG-B2(0-9.5)-C

Quant Time: May 05 04:14:55 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 04 15:12:53 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.74  | 152  | 165106   | 40.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.03  | 136  | 591183   | 40.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.78  | 164  | 231737   | 40.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.25 | 188  | 383631   | 40.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.89 | 240  | 359516   | 40.00 | ng    | 0.01     |
| 86) Perylene-d12          | 15.29 | 264  | 258904   | 40.00 | ng    | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.32  | 112  | 527681   | 52.91 | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 651053   | 48.46 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.30  | 82   | 390213   | 33.92 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.57 | 330  | 106946   | 47.18 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.10  | 172  | 635674   | 44.97 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.84 | 244  | 496415   | 27.91 | ng    | 0.00     |

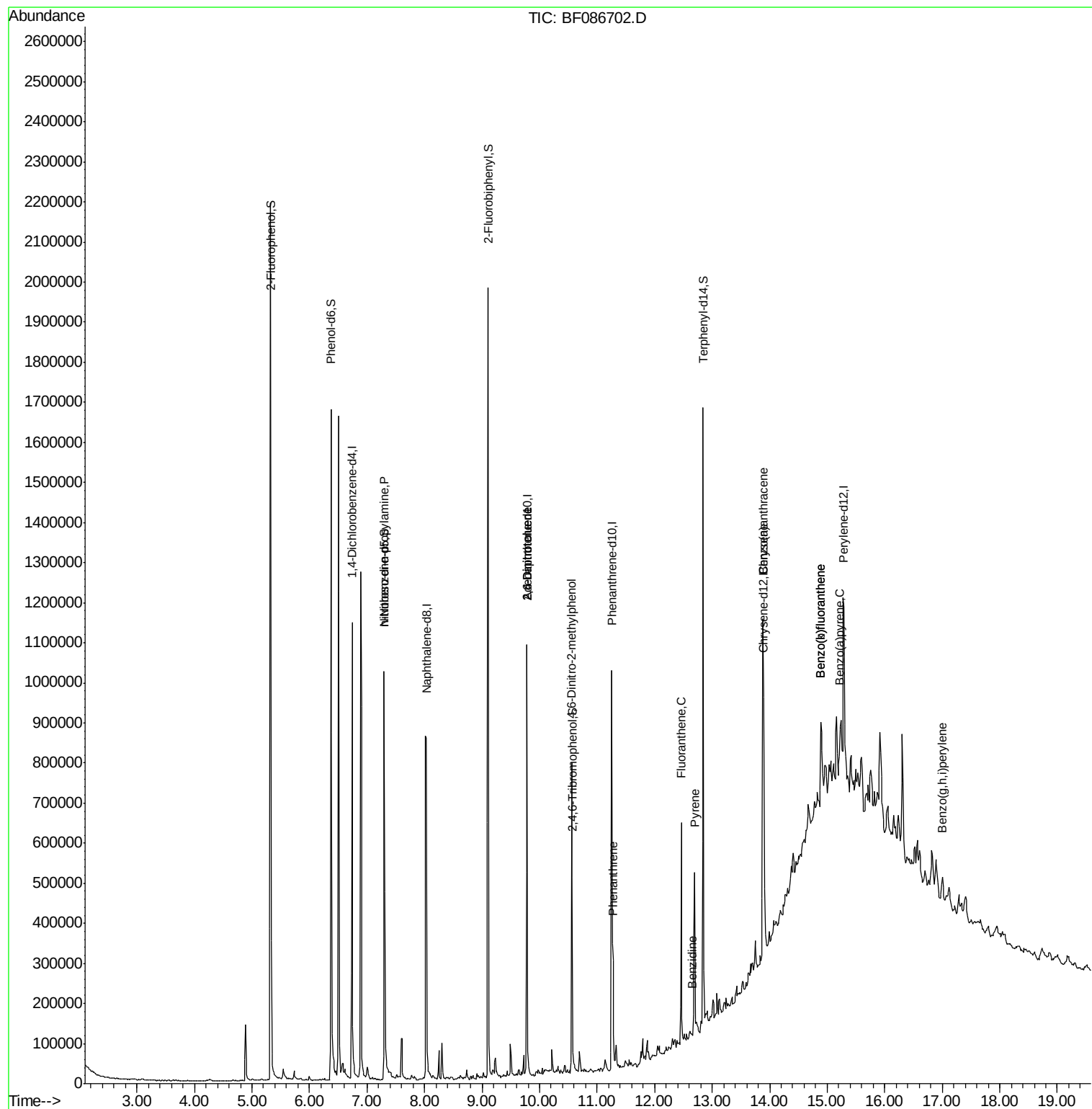
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70   | 54156    | 5.90  | ng    | # 71   |
| 50) 2,6-Dinitrotoluene         | 9.78  | 165  | 29861    | 8.05  | ng    | # 21   |
| 56) 2,4-Dinitrotoluene         | 9.78  | 165  | 29857    | 6.50  | ng    | # 16   |
| 64) 4,6-Dinitro-2-methylphenol | 10.56 | 198  | 216      | 5.34  | ng    | # 1    |
| 70) Phenanthrene               | 11.28 | 178  | 92067    | 4.47  | ng    | 97     |
| 74) Fluoranthene               | 12.47 | 202  | 210585   | 10.20 | ng    | 95     |
| 76) Benzydine                  | 12.65 | 184  | 438      | 7.13  | ng    | # 1    |
| 77) Pyrene                     | 12.69 | 202  | 189024   | 6.59  | ng    | 99     |
| 80) Benzo(a)anthracene         | 13.88 | 228  | 92951    | 4.57  | ng    | 95     |
| 82) Chrysene                   | 13.88 | 228  | 92951    | 4.29  | ng    | 97     |
| 87) Benzo(b)fluoranthene       | 14.89 | 252  | 124313   | 7.99  | ng    | # 89   |
| 88) Benzo(k)fluoranthene       | 14.89 | 252  | 124313   | 8.48  | ng    | # 87   |
| 89) Benzo(a)pyrene             | 15.22 | 252  | 60874    | 4.25  | ng    | # 78   |
| 91) Benzo(g,h,i)perylene       | 17.00 | 276  | 36353    | 2.52  | ng    | 94     |

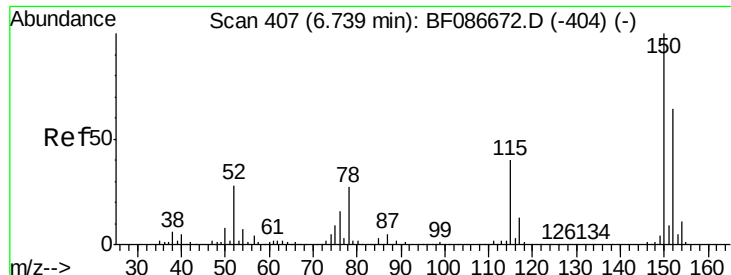
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 04 15:12:53 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 40.00 ng

RT: 6.74 min Scan# 407

Delta R.T. 0.00 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

Instrument :

BNA\_F

ClientSampleId :

WPG-B2(0-9.5)-C

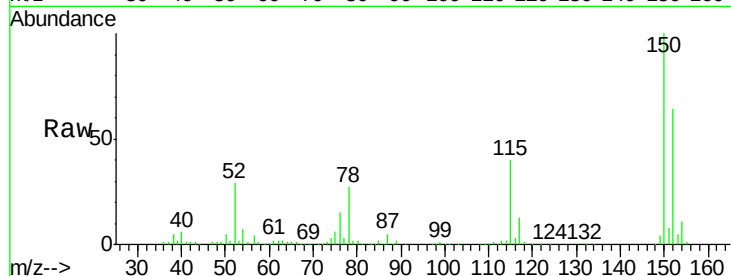
Tgt Ion:152 Resp: 165106

Ion Ratio Lower Upper

152 100

150 157.1 125.8 188.6

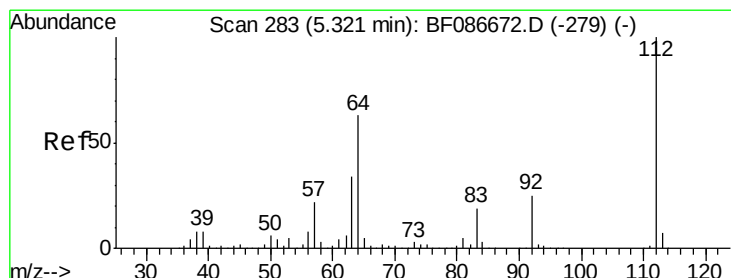
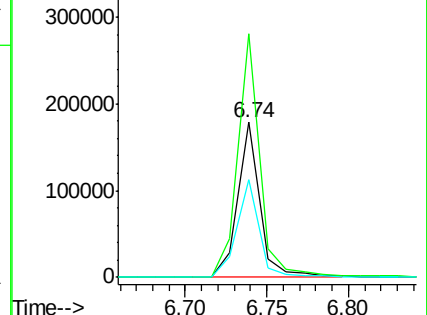
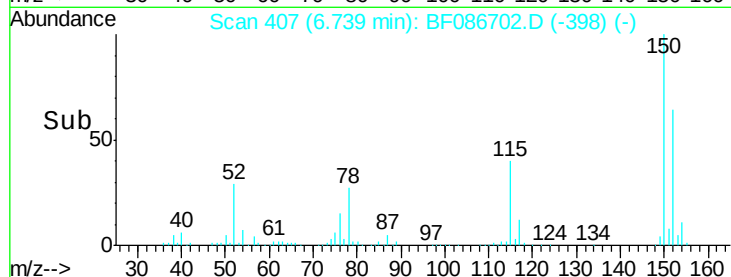
115 62.8 51.5 77.3



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: 52.91 ng

RT: 5.32 min Scan# 283

Delta R.T. 0.00 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

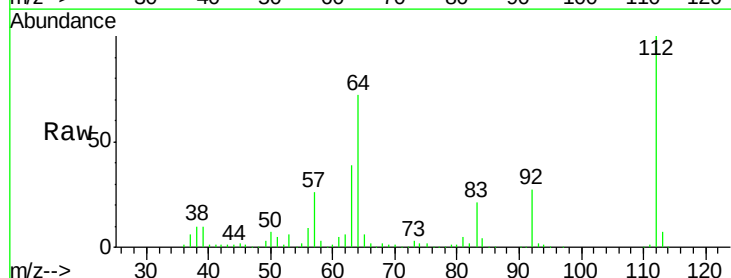
Tgt Ion:112 Resp: 527681

Ion Ratio Lower Upper

112 100

64 71.8 52.1 78.1

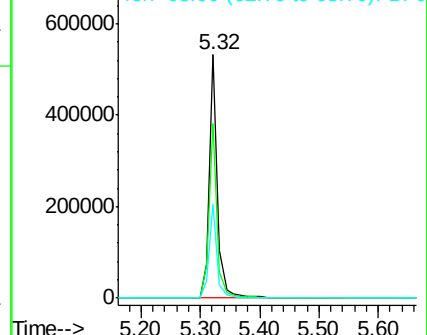
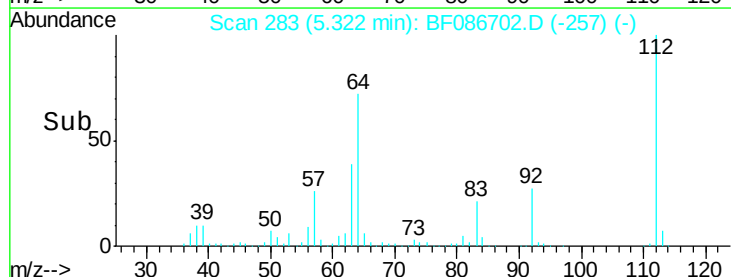
63 38.7 25.7 38.5#

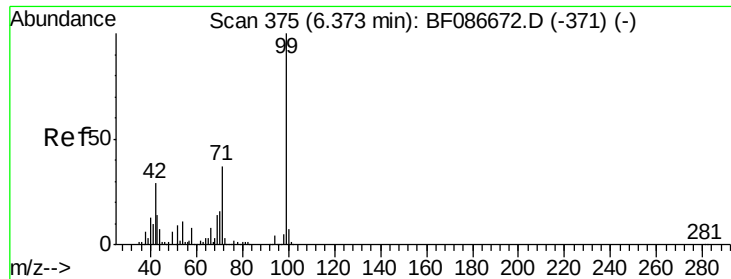


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 48.46 ng

RT: 6.37 min Scan# 375

Delta R.T. 0.00 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

Instrument :

BNA\_F

ClientSampleId :

WPG-B2(0-9.5)-C

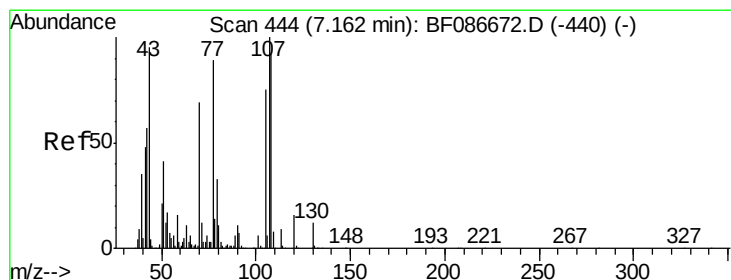
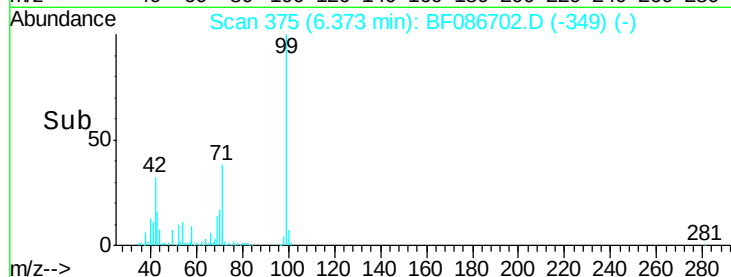
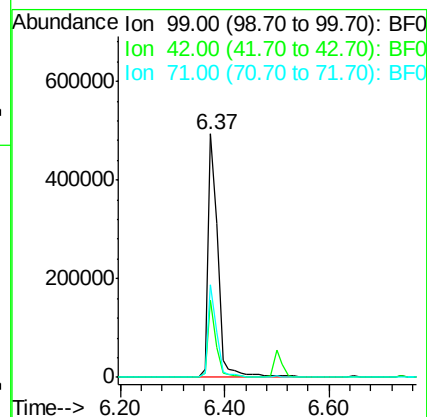
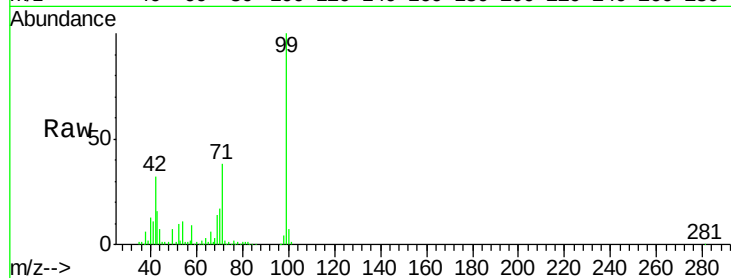
Tgt Ion: 99 Resp: 651053

Ion Ratio Lower Upper

99 100

42 31.8 13.6 20.4#

71 37.9 24.6 36.8#



#19

n-Nitroso-di-n-propylamine

Concen: 5.90 ng

RT: 7.30 min Scan# 456

Delta R.T. 0.14 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

Tgt Ion: 70 Resp: 54156

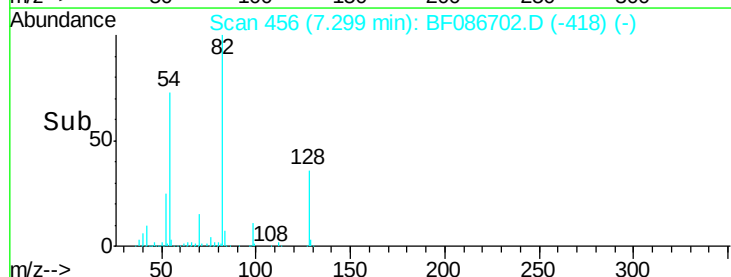
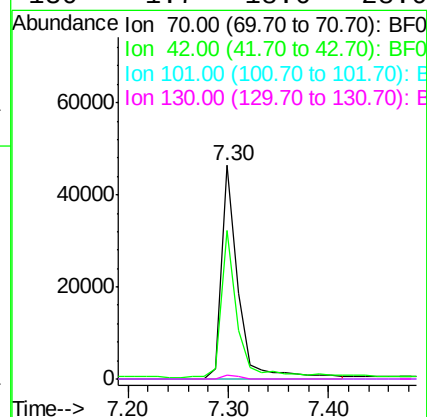
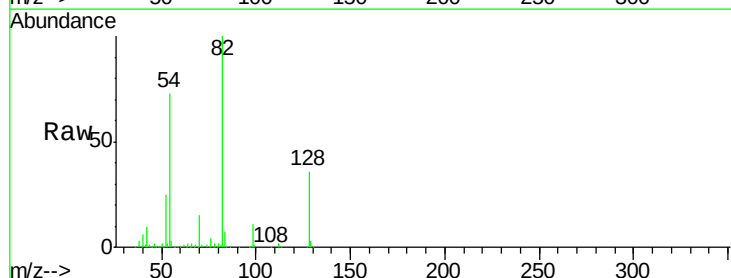
Ion Ratio Lower Upper

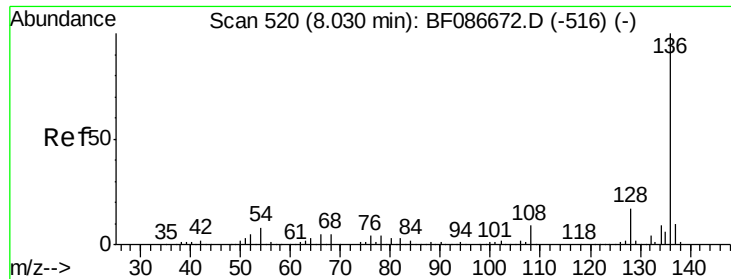
70 100

42 69.6 43.1 64.7#

101 0.0 8.1 12.1#

130 1.7 18.6 28.0#

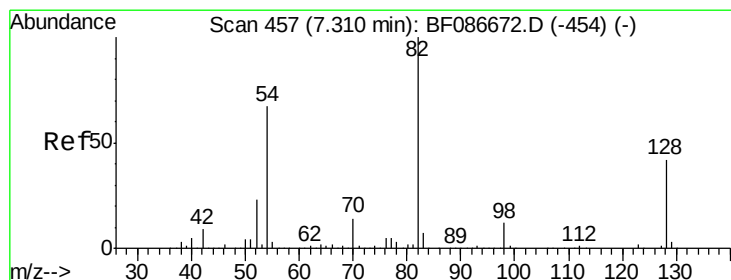
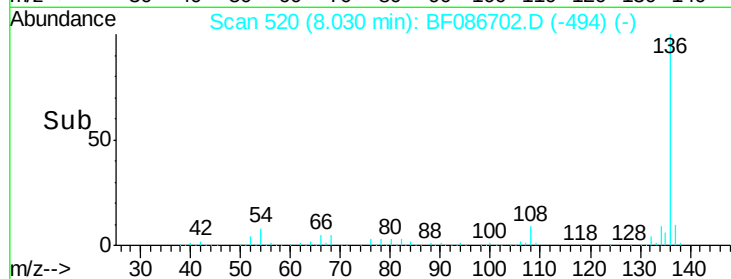
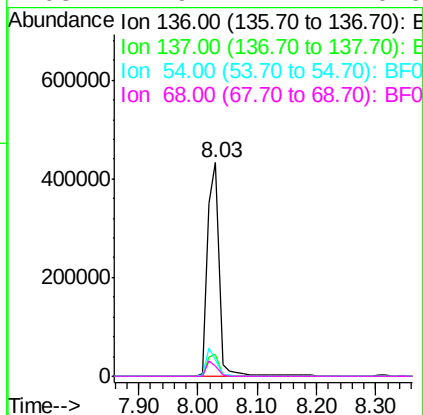
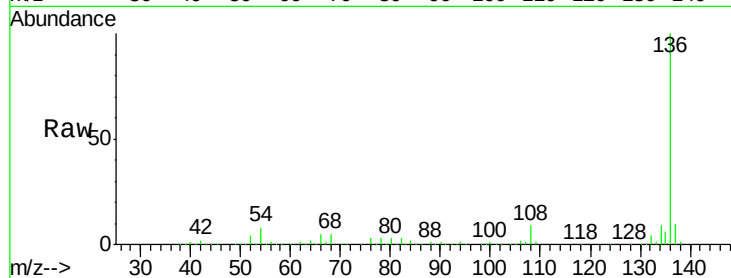




#21  
Naphthalene-d8  
Concen: 40.00 ng  
RT: 8.03 min Scan# 520  
Delta R.T. 0.00 min  
Lab File: BF086702.D  
Acq: 5 May 2016 3:19

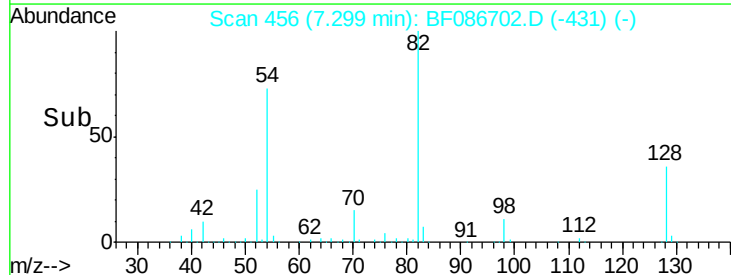
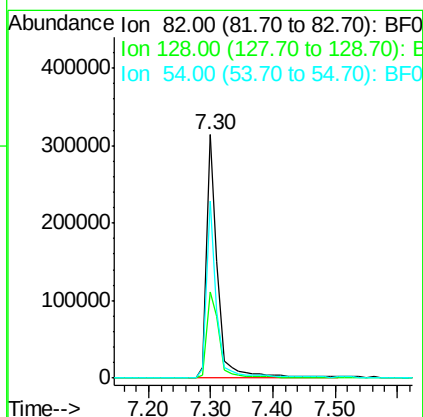
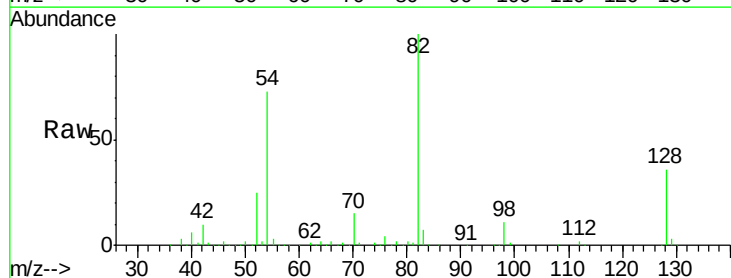
Instrument :  
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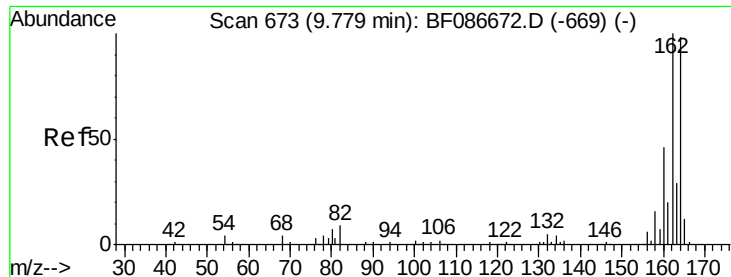
Tgt Ion: 136 Resp: 591183  
Ion Ratio Lower Upper  
136 100  
137 10.3 8.8 13.2  
54 7.8 5.0 7.4#  
68 4.9 4.4 6.6



#23  
Nitrobenzene-d5  
Concen: 33.92 ng  
RT: 7.30 min Scan# 456  
Delta R.T. -0.01 min  
Lab File: BF086702.D  
Acq: 5 May 2016 3:19

Tgt Ion: 82 Resp: 390213  
Ion Ratio Lower Upper  
82 100  
128 35.5 40.6 61.0#  
54 72.7 38.1 57.1#

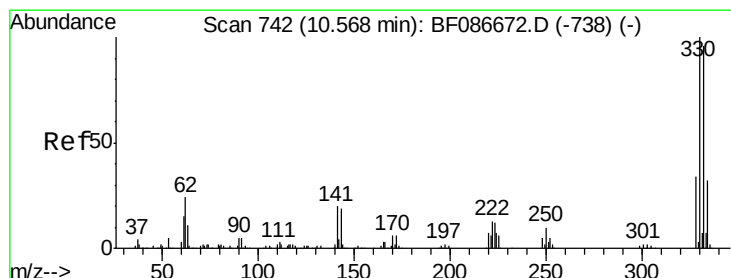
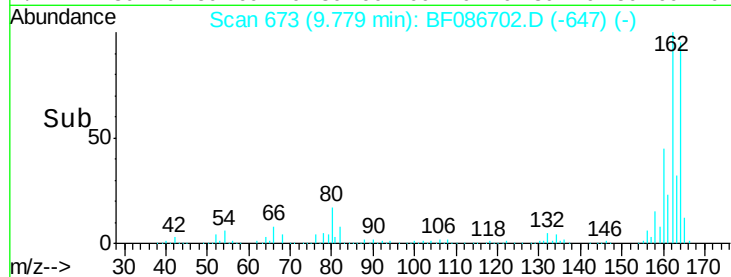
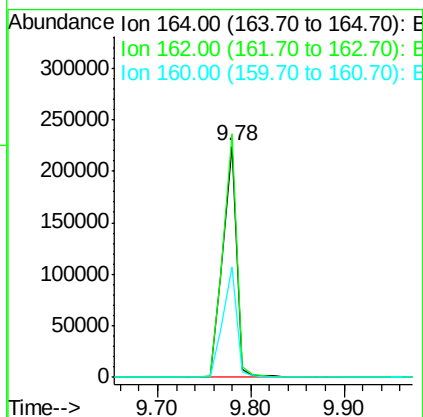
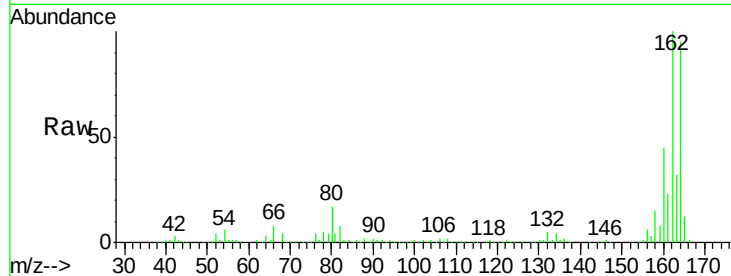




#38  
Acenaphthene-d10  
Concen: 40.00 ng  
RT: 9.78 min Scan# 673  
Delta R.T. 0.00 min  
Lab File: BF086702.D  
Acq: 5 May 2016 3:19

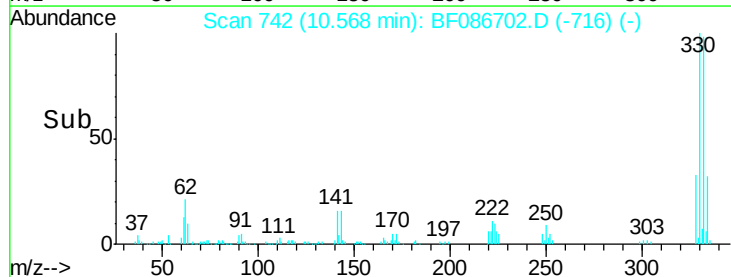
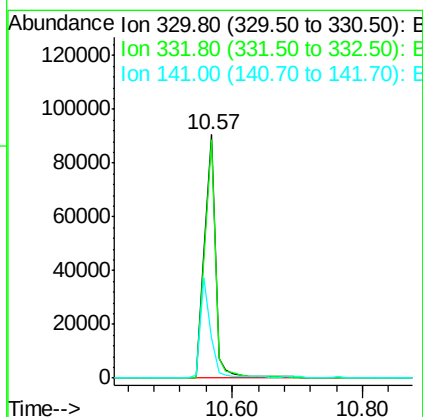
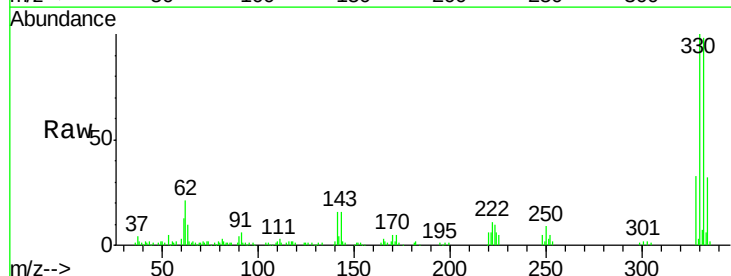
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BNA\_F  
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WPG-B2(0-9.5)-C

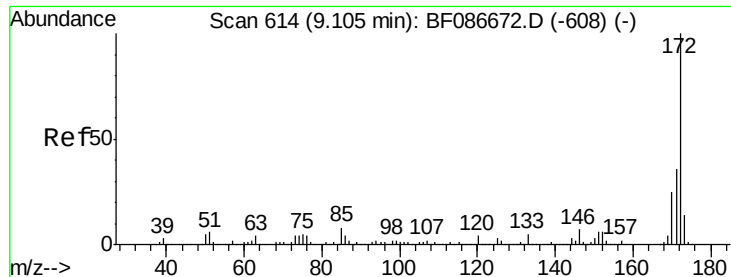
Tgt Ion:164 Resp: 231737  
Ion Ratio Lower Upper  
164 100  
162 105.2 82.8 124.2  
160 47.7 36.9 55.3



#41  
2,4,6-Tribromophenol  
Concen: 47.18 ng  
RT: 10.57 min Scan# 742  
Delta R.T. 0.00 min  
Lab File: BF086702.D  
Acq: 5 May 2016 3:19

Tgt Ion:330 Resp: 106946  
Ion Ratio Lower Upper  
330 100  
332 95.9 79.0 118.4  
141 38.2 31.2 46.8

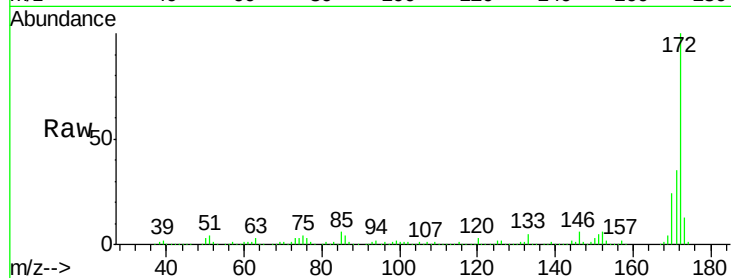




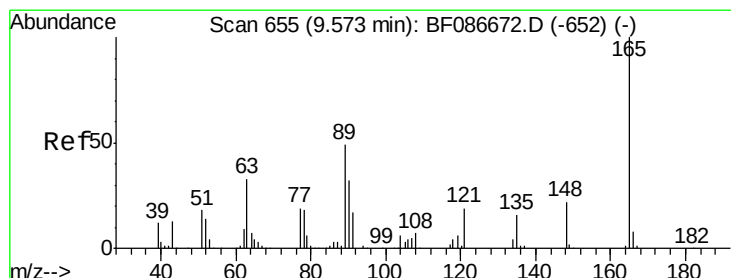
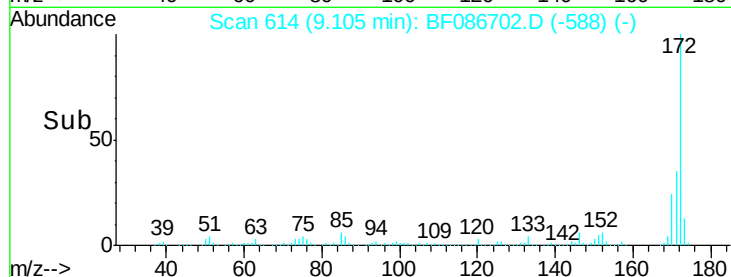
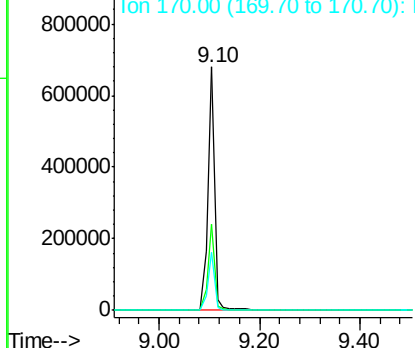
#44  
 2-Fluorobiphenyl  
 Concen: 44.97 ng  
 RT: 9.10 min Scan# 614  
 Delta R.T. 0.00 min  
 Lab File: BF086702.D  
 Acq: 5 May 2016 3:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPG-B2(0-9.5)-C

Tgt Ion:172 Resp: 635674  
 Ion Ratio Lower Upper  
 172 100  
 171 35.2 29.0 43.6  
 170 23.6 19.8 29.8

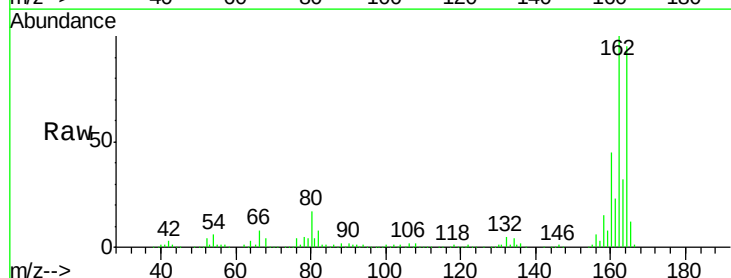


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

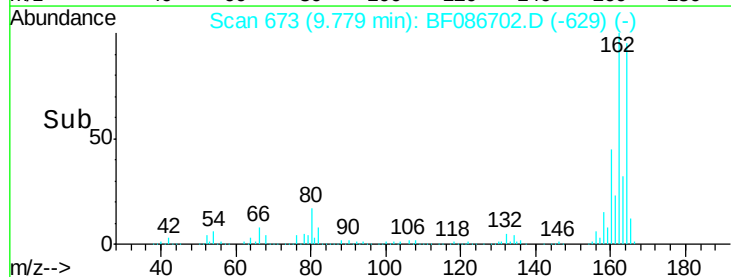
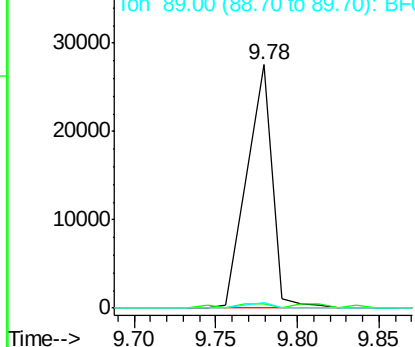


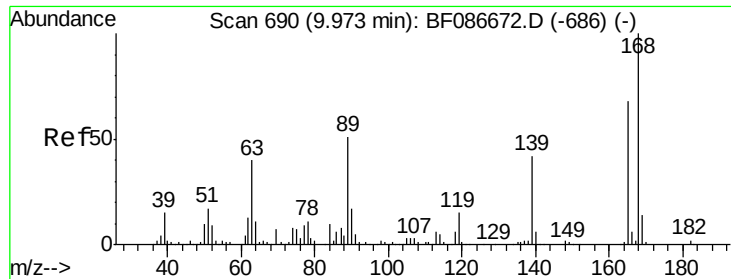
#50  
 2,6-Dinitrotoluene  
 Concen: 8.05 ng  
 RT: 9.78 min Scan# 673  
 Delta R.T. 0.21 min  
 Lab File: BF086702.D  
 Acq: 5 May 2016 3:19

Tgt Ion:165 Resp: 29861  
 Ion Ratio Lower Upper  
 165 100  
 63 1.8 51.8 77.8#  
 89 2.1 50.7 76.1#



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

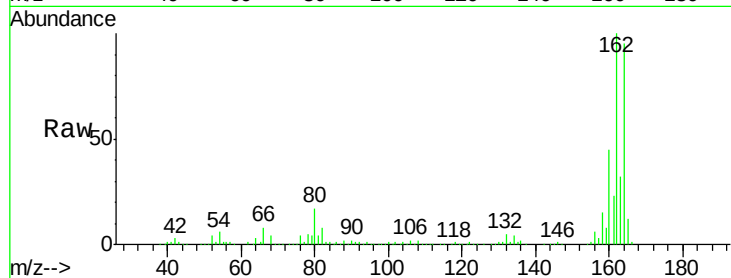




#56  
 2,4-Dinitrotoluene  
 Concen: 6.50 ng  
 RT: 9.78 min Scan# 673  
 Delta R.T. -0.19 min  
 Lab File: BF086702.D  
 Acq: 5 May 2016 3:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPG-B2(0-9.5)-C

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 165   | Resp: | 29857  |
| Ion Ratio | Lower | Upper |        |
| 165       | 100   |       |        |
| 63        | 1.8   | 44.3  | 66.5#  |
| 89        | 2.1   | 70.0  | 105.0# |
| 182       | 0.0   | 1.8   | 2.6#   |

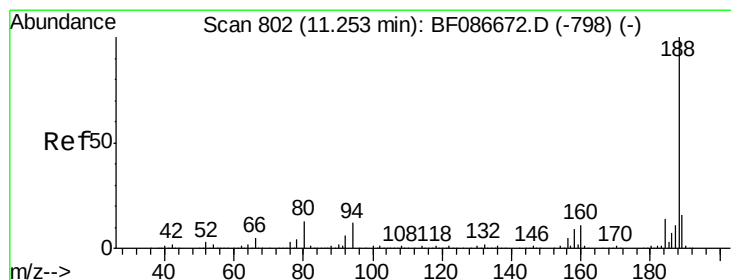
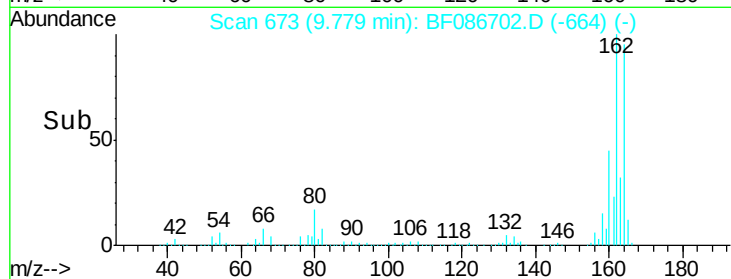
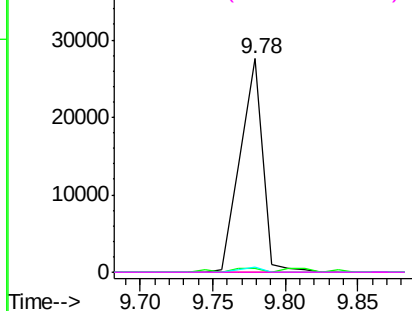


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

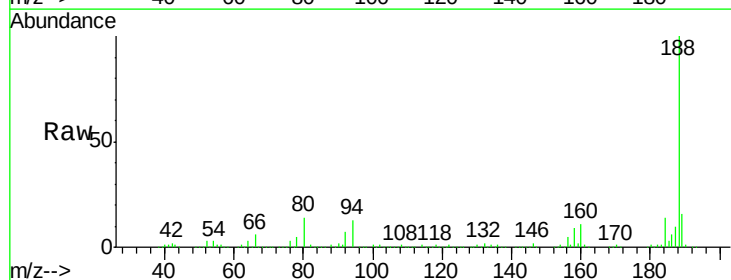
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 40.00 ng  
 RT: 11.25 min Scan# 802  
 Delta R.T. 0.00 min  
 Lab File: BF086702.D  
 Acq: 5 May 2016 3:19

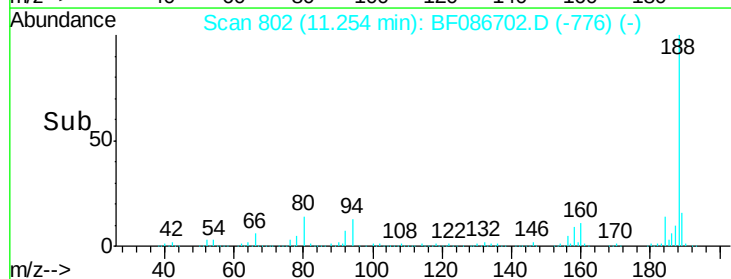
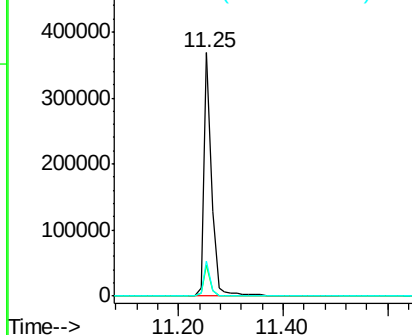
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 383631 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 12.8  | 6.8   | 10.2#  |
| 80        | 14.5  | 7.1   | 10.7#  |



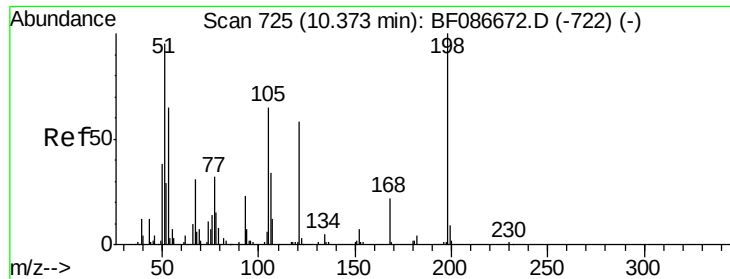
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



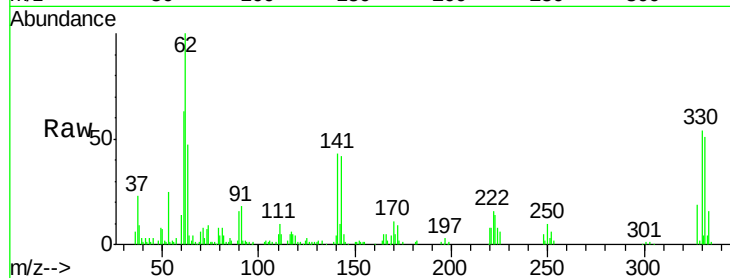




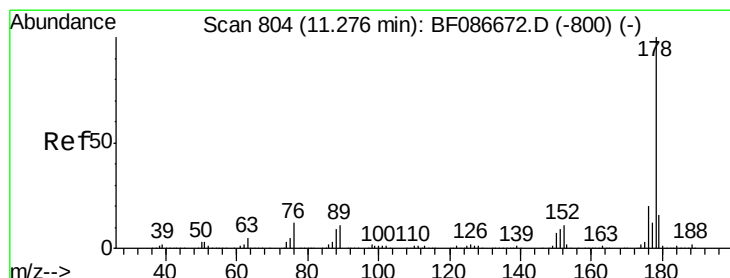
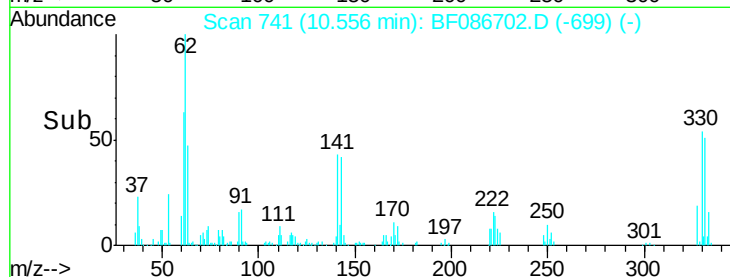
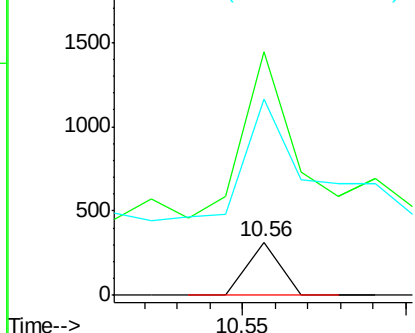
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.34 ng  
 RT: 10.56 min Scan# 741  
 Delta R.T. 0.18 min  
 Lab File: BF086702.D  
 Acq: 5 May 2016 3:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPG-B2(0-9.5)-C

Tgt Ion:198 Resp: 216  
 Ion Ratio Lower Upper  
 198 100  
 51 458.1 20.5 60.5#  
 105 368.3 24.5 64.5#

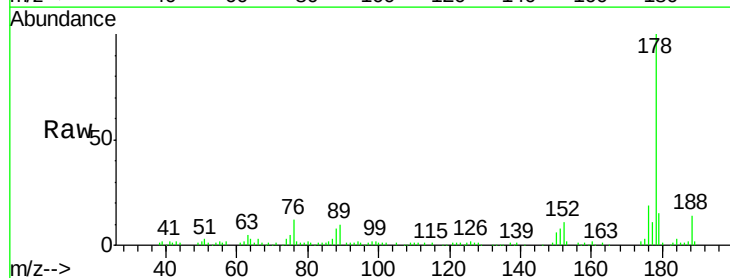


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF0  
 Ion 105.00 (104.70 to 105.70): E

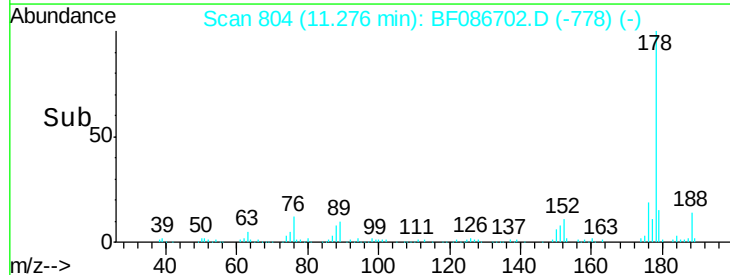
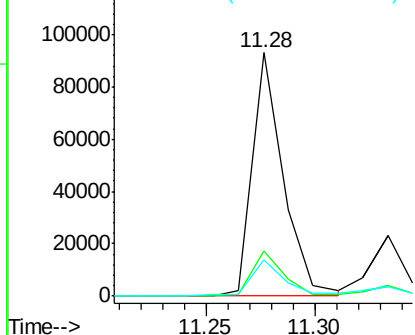


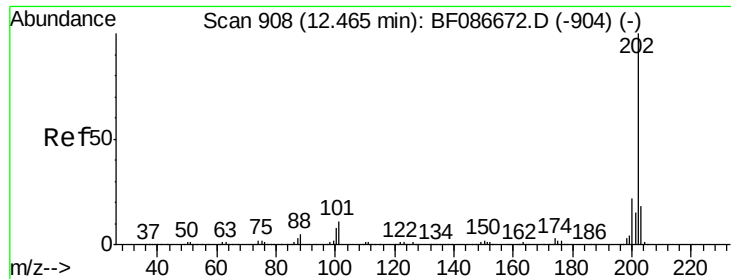
#70  
 Phenanthrene  
 Concen: 4.47 ng  
 RT: 11.28 min Scan# 804  
 Delta R.T. 0.00 min  
 Lab File: BF086702.D  
 Acq: 5 May 2016 3:19

Tgt Ion:178 Resp: 92067  
 Ion Ratio Lower Upper  
 178 100  
 176 18.5 16.0 24.0  
 179 14.9 12.6 18.8



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: 10.20 ng

RT: 12.47 min Scan# 908

Delta R.T. 0.00 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

Instrument :

BNA\_F

ClientSampleId :

WPG-B2(0-9.5)-C

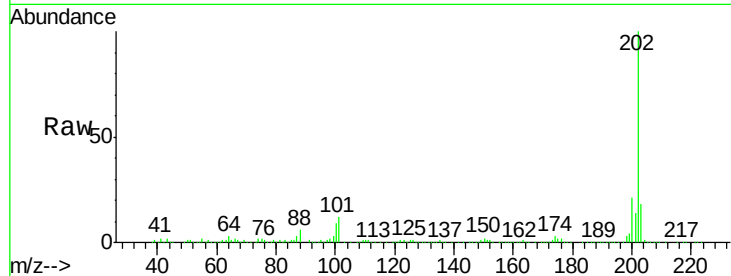
Tgt Ion:202 Resp: 210585

Ion Ratio Lower Upper

202 100

101 11.7 0.0 35.4

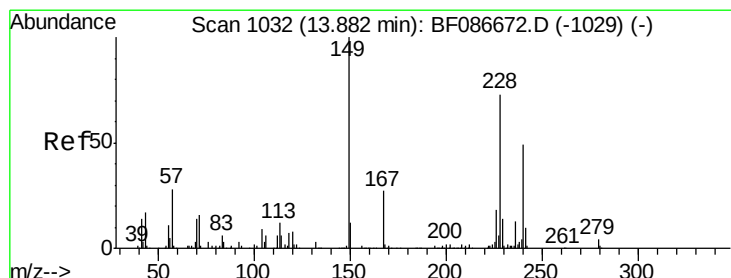
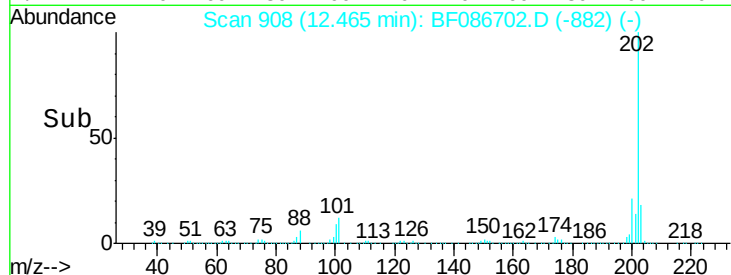
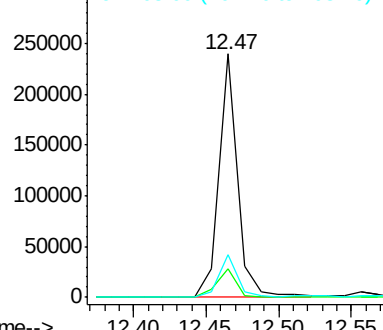
203 17.7 0.0 38.1



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: 40.00 ng

RT: 13.89 min Scan# 1033

Delta R.T. 0.01 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

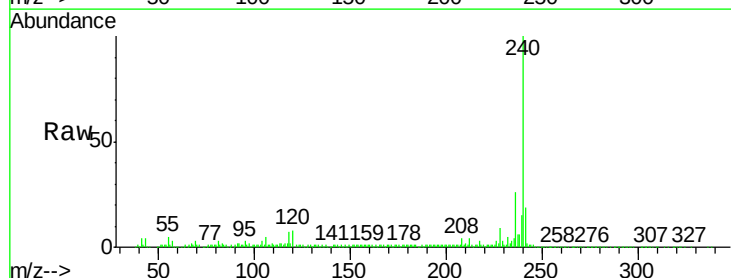
Tgt Ion:240 Resp: 359516

Ion Ratio Lower Upper

240 100

120 7.9 11.2 16.8#

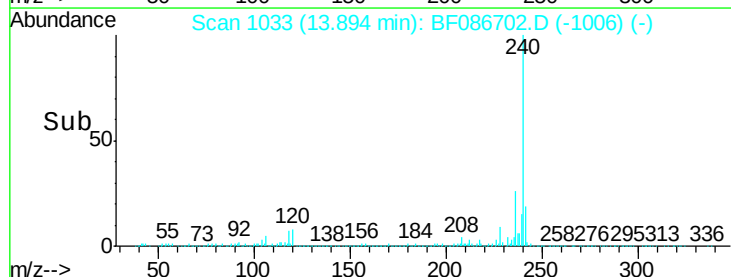
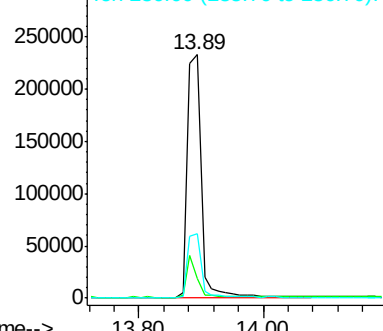
236 26.4 21.2 31.8

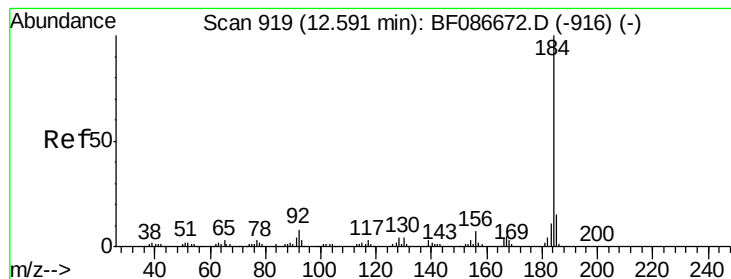


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 7.13 ng

RT: 12.65 min Scan# 924

Delta R.T. 0.06 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

Instrument :

BNA\_F

ClientSampleId :

WPG-B2(0-9.5)-C

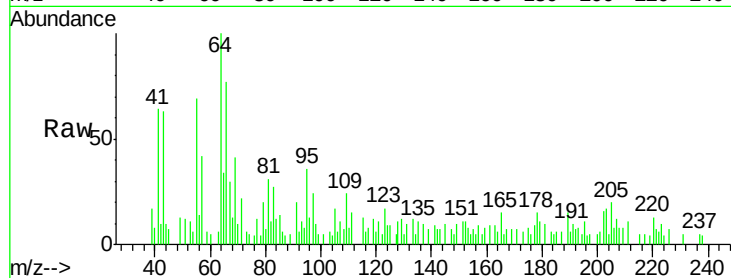
Tgt Ion:184 Resp: 438

Ion Ratio Lower Upper

184 100

185 120.2 13.6 20.4#

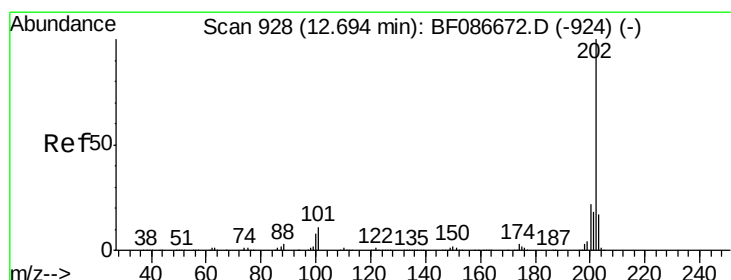
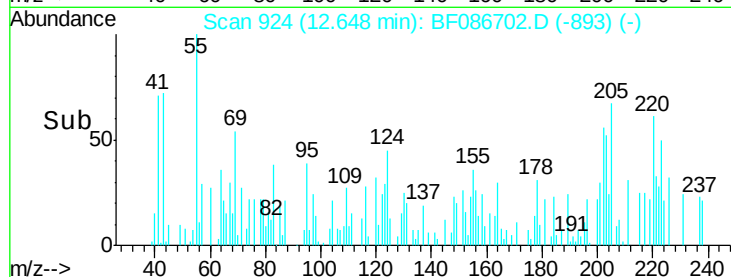
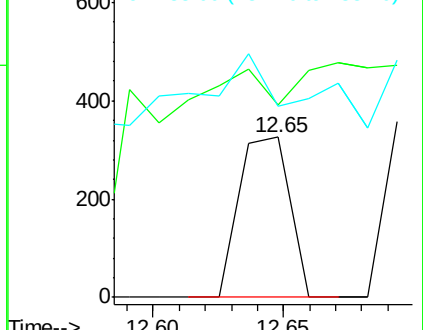
183 119.6 9.8 14.6#



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



#77

Pyrene

Concen: 6.59 ng

RT: 12.69 min Scan# 928

Delta R.T. 0.00 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

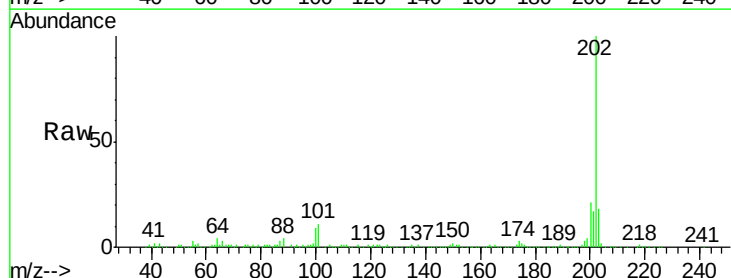
Tgt Ion:202 Resp: 189024

Ion Ratio Lower Upper

202 100

200 21.1 17.7 26.5

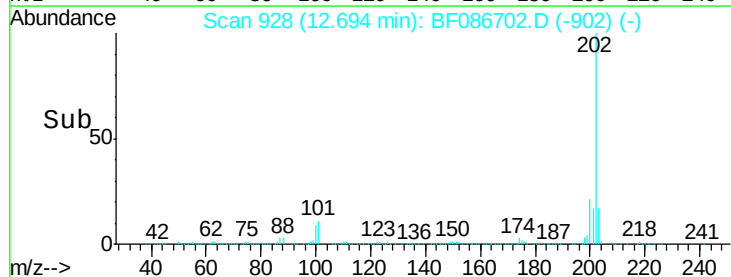
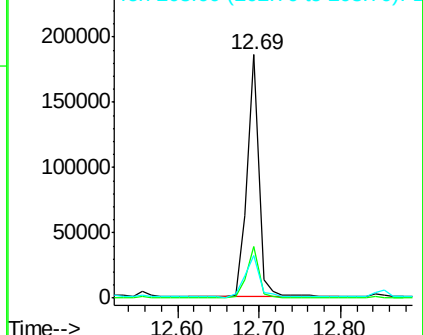
203 17.7 14.2 21.4

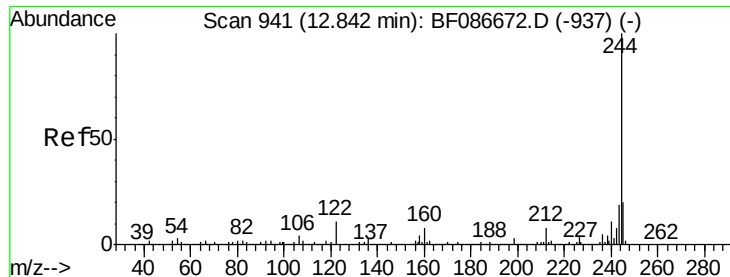


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 27.91 ng

RT: 12.84 min Scan# 941

Delta R.T. 0.00 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

Instrument :

BNA\_F

ClientSampleId :

WPG-B2(0-9.5)-C

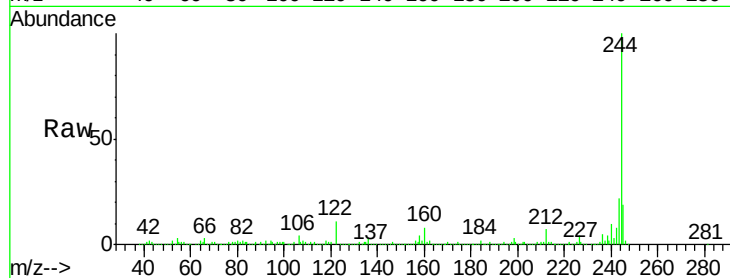
Tgt Ion:244 Resp: 496415

Ion Ratio Lower Upper

244 100

212 7.5 6.2 9.2

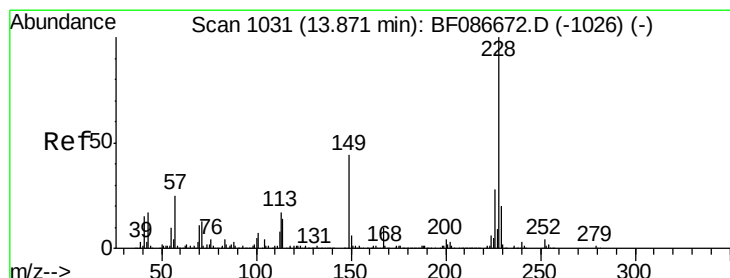
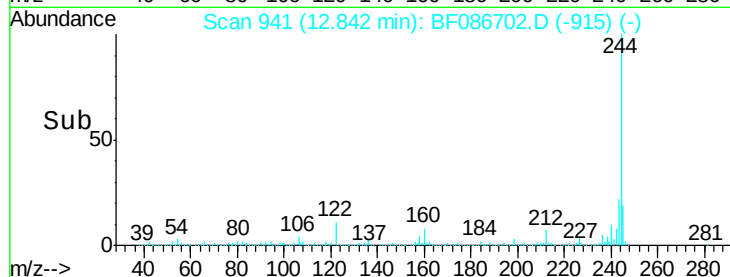
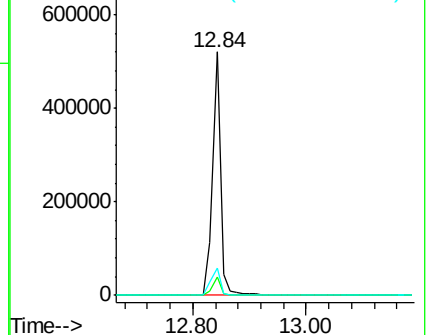
122 11.0 12.0 18.0#



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: 4.57 ng

RT: 13.88 min Scan# 1032

Delta R.T. 0.01 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

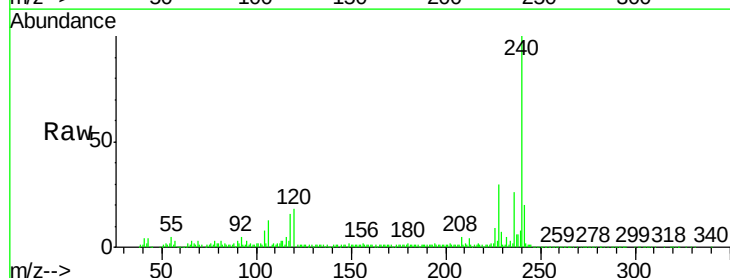
Tgt Ion:228 Resp: 92951

Ion Ratio Lower Upper

228 100

226 31.2 22.5 33.7

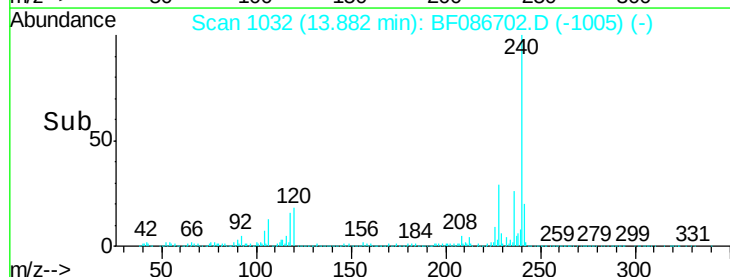
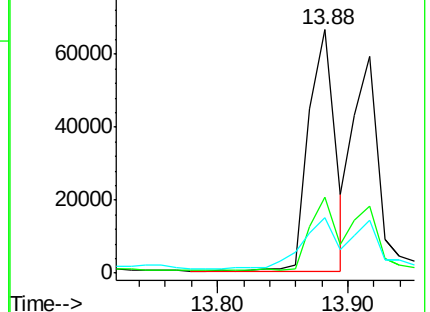
229 22.7 16.6 25.0

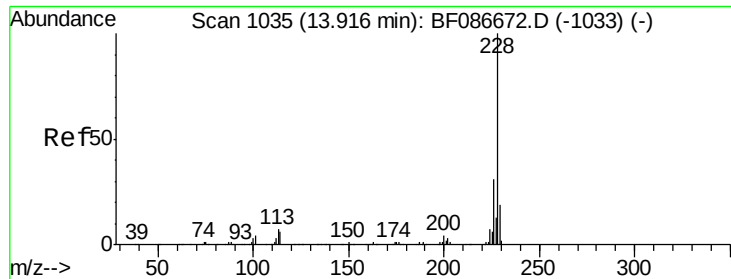


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.29 ng

RT: 13.88 min Scan# 1032

Delta R.T. -0.03 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

Instrument :

BNA\_F

ClientSampleId :

WPG-B2(0-9.5)-C

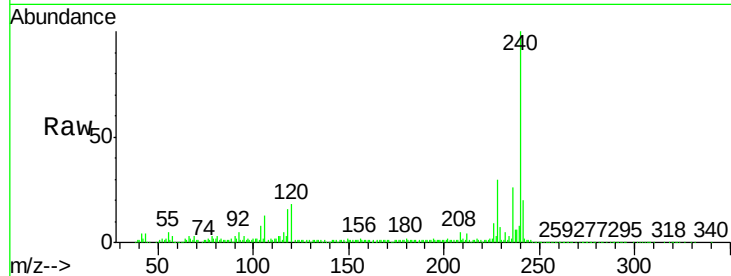
Tgt Ion:228 Resp: 92951

Ion Ratio Lower Upper

228 100

226 31.2 24.4 36.6

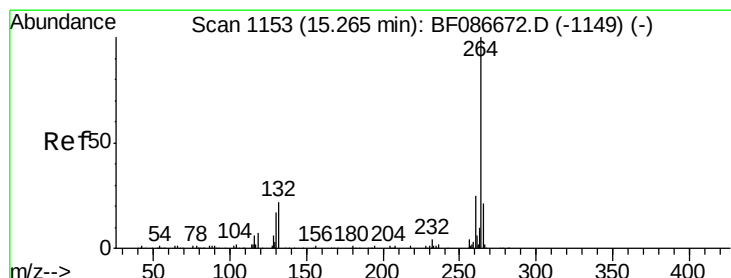
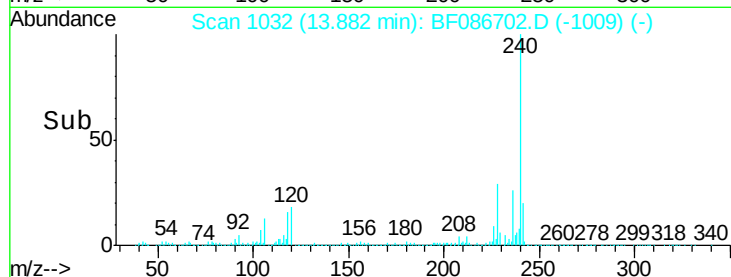
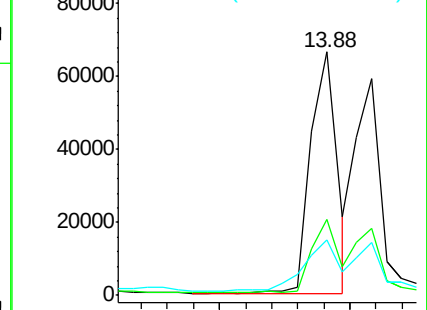
229 22.7 15.8 23.8



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



#86

Perylene-d12

Concen: 40.00 ng

RT: 15.29 min Scan# 1155

Delta R.T. 0.02 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

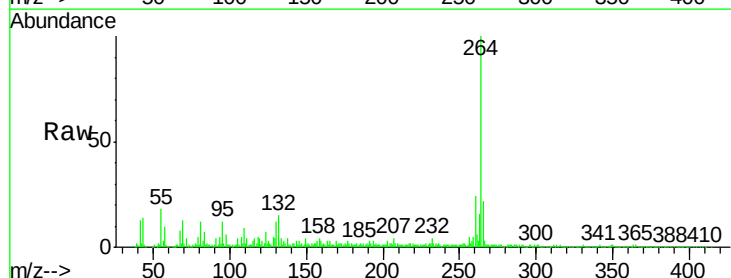
Tgt Ion:264 Resp: 258904

Ion Ratio Lower Upper

264 100

260 24.4 19.5 29.3

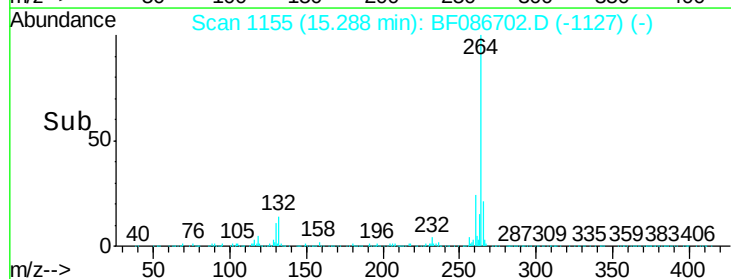
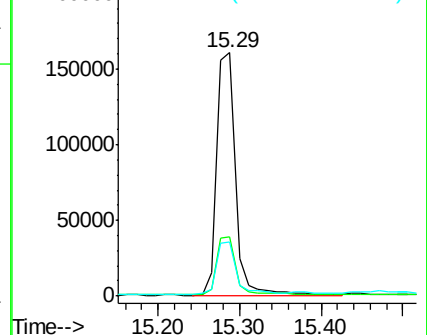
265 22.1 17.3 25.9

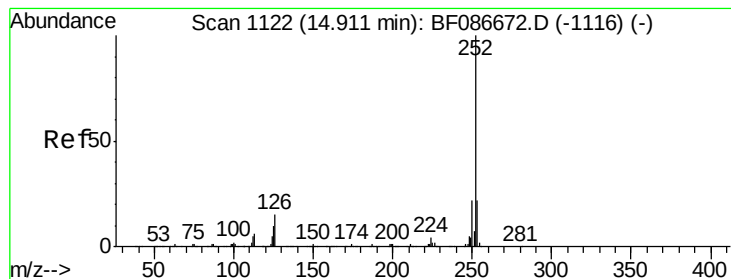


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 7.99 ng

RT: 14.89 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

Instrument :

BNA\_F

ClientSampleId :

WPG-B2(0-9.5)-C

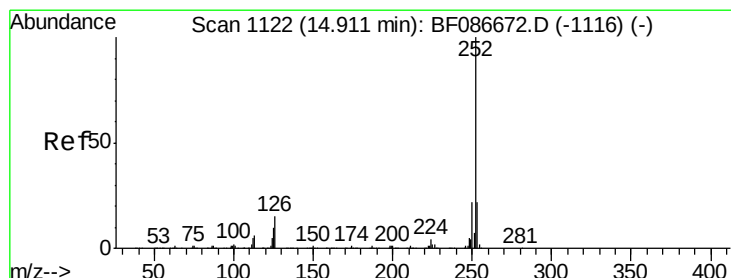
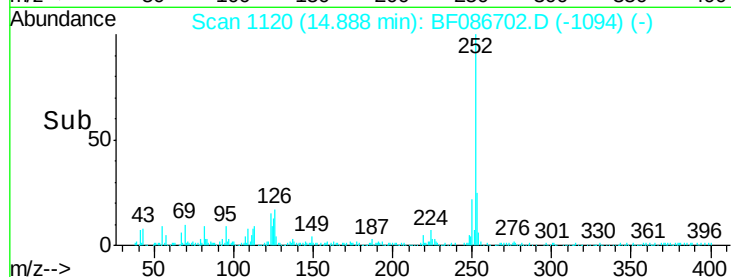
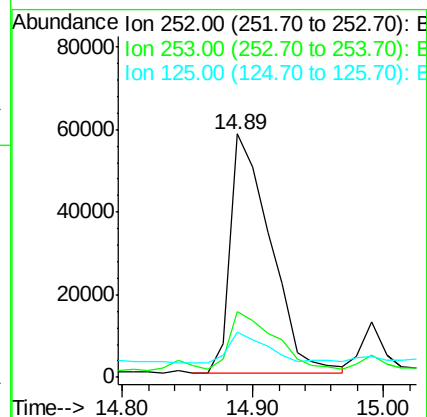
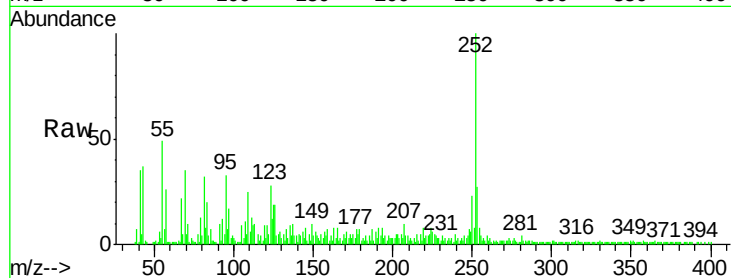
Tgt Ion:252 Resp: 124313

Ion Ratio Lower Upper

252 100

253 27.0 17.8 26.6#

125 18.8 11.4 17.0#



#88

Benzo(k)fluoranthene

Concen: 8.48 ng

RT: 14.89 min Scan# 1120

Delta R.T. -0.02 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

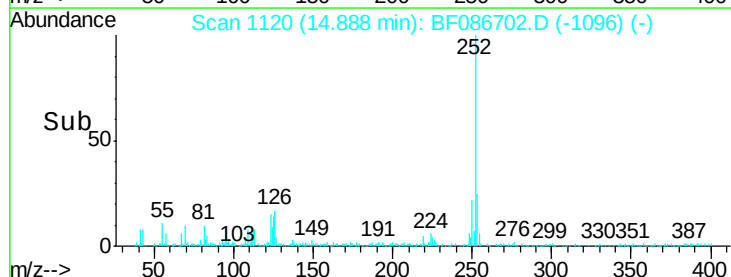
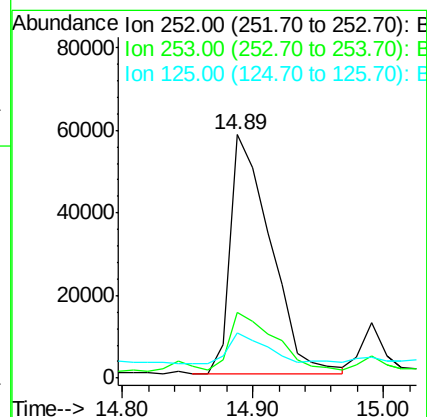
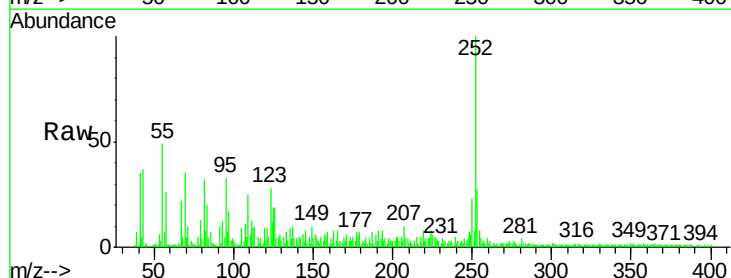
Tgt Ion:252 Resp: 124313

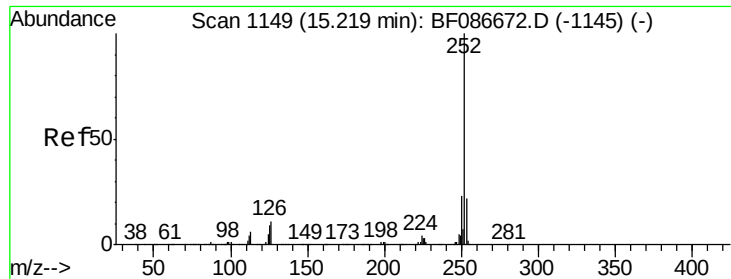
Ion Ratio Lower Upper

252 100

253 27.0 17.8 26.6#

125 18.8 9.1 13.7#





#89

Benzo(a)pyrene

Concen: 4.25 ng

RT: 15.22 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

Instrument :

BNA\_F

ClientSampleId :

WPG-B2(0-9.5)-C

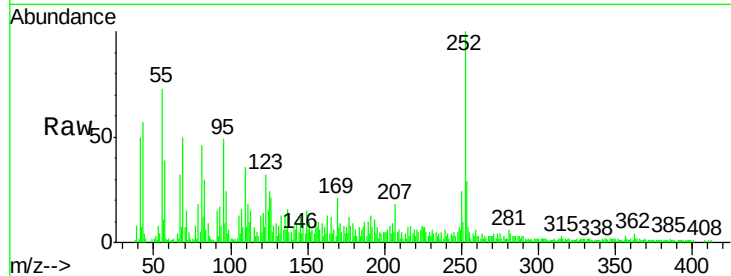
Tgt Ion:252 Resp: 60874

Ion Ratio Lower Upper

252 100

253 29.2 17.2 25.8#

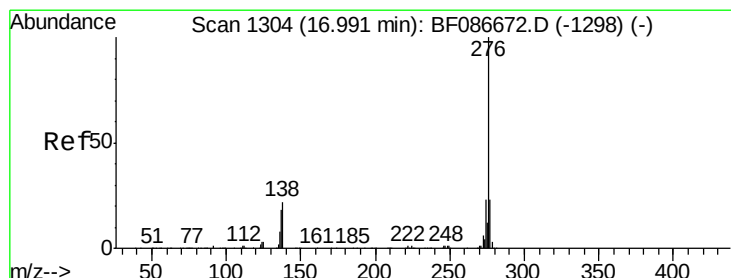
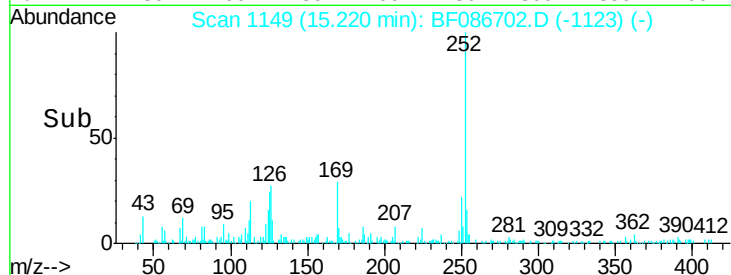
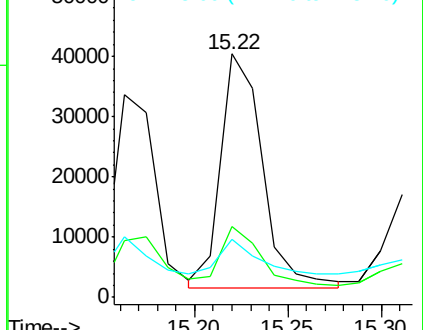
125 23.7 9.0 13.6#



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: 2.52 ng

RT: 17.00 min Scan# 1305

Delta R.T. 0.01 min

Lab File: BF086702.D

Acq: 5 May 2016 3:19

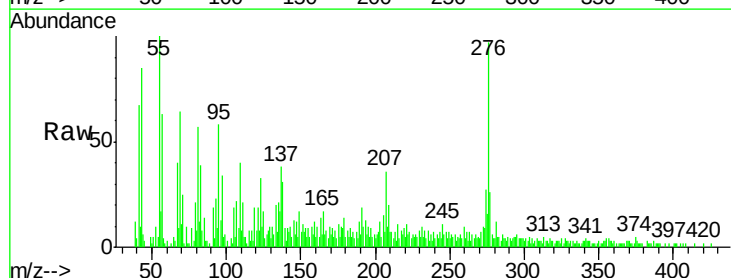
Tgt Ion:276 Resp: 36353

Ion Ratio Lower Upper

276 100

277 27.3 19.6 29.4

138 32.4 23.6 35.4



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

