

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102717\  
 Data File : BF099896.D  
 Acq On : 28 Oct 2017 1:04  
 Operator : SJ/JU  
 Sample : I6029-09  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 28 01:54:57 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 27 15:58:57 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.79  | 152  | 89625    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.07  | 136  | 424945   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.83  | 164  | 169224   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.33 | 188  | 296030   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.99 | 240  | 166893   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.46 | 264  | 178866   | 20.00 | ng    | 0.00     |

|                             |       |     |        |       |    |      |
|-----------------------------|-------|-----|--------|-------|----|------|
| System Monitoring Compounds |       |     |        |       |    |      |
| 5) 2-Fluorophenol           | 5.42  | 112 | 549331 | 96.23 | ng | 0.00 |
| 7) Phenol-d6                | 6.44  | 99  | 666293 | 98.43 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.36  | 82  | 378096 | 57.28 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330 | 143719 | 93.19 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.16  | 172 | 767084 | 69.94 | ng | 0.00 |
| 78) Terphenyl-d14           | 12.92 | 244 | 588859 | 77.11 | ng | 0.00 |

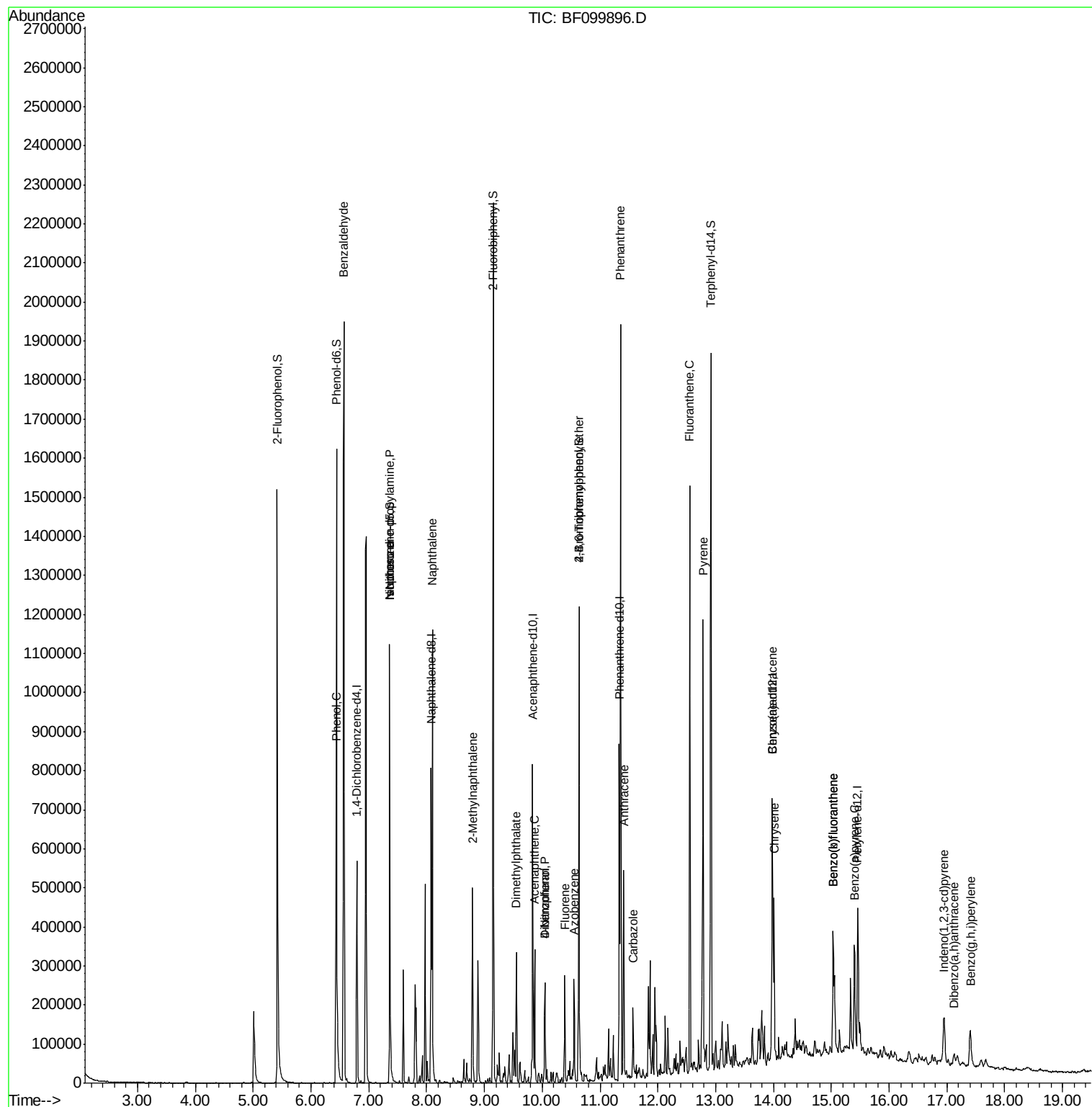
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 9) Benzaldehyde                | 6.57  | 77  | 10499  | 2.60   | ng | 94   |
| 10) Phenol                     | 6.45  | 94  | 35140  | 4.73   | ng | 96   |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70  | 47156  | 11.89  | ng | # 73 |
| 25) Isophorone                 | 7.36  | 82  | 378096 | 31.57  | ng | # 64 |
| 31) Naphthalene                | 8.10  | 128 | 63952  | 3.12   | ng | 99   |
| 37) 2-Methylnaphthalene        | 8.79  | 142 | 138276 | 10.06  | ng | 97   |
| 49) Dimethylphthalate          | 9.55  | 163 | 138094 | 10.30  | ng | 100  |
| 51) Acenaphthene               | 9.87  | 154 | 70237  | 6.71   | ng | 96   |
| 54) Dibenzofuran               | 10.05 | 168 | 96409  | 6.53   | ng | 95   |
| 55) 4-Nitrophenol              | 10.05 | 139 | 33598  | 19.37  | ng | # 10 |
| 57) Fluorene                   | 10.39 | 166 | 74643  | 6.10   | ng | 99   |
| 62) Azobenzene                 | 10.55 | 77  | 35235  | 3.21   | ng | # 1  |
| 66) 4-Bromophenyl-phenylether  | 10.63 | 248 | 9166   | 2.94   | ng | # 1  |
| 70) Phenanthrene               | 11.36 | 178 | 699480 | 41.87  | ng | 99   |
| 71) Anthracene                 | 11.41 | 178 | 213559 | 12.59  | ng | 98   |
| 72) Carbazole                  | 11.57 | 167 | 72566  | 4.55   | ng | 96   |
| 74) Fluoranthene               | 12.55 | 202 | 568035 | 32.72  | ng | 98   |
| 77) Pyrene                     | 12.78 | 202 | 461854 | 36.39  | ng | 99   |
| 80) Benzo(a)anthracene         | 13.97 | 228 | 177228 | 16.75  | ng | 98   |
| 82) Chrysene                   | 14.01 | 228 | 151701 | 15.25  | ng | 98   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.95 | 276 | 77217  | 8.46   | ng | 99   |
| 87) Benzo(b)fluoranthene       | 15.03 | 252 | 231517 | 20.50  | ng | # 96 |
| 88) Benzo(k)fluoranthene       | 15.03 | 252 | 231517 | 21.74  | ng | 98   |
| 89) Benzo(a)pyrene             | 15.40 | 252 | 130914 | 12.90  | ng | # 96 |
| 90) Dibenzo(a,h)anthracene     | 17.12 | 278 | 20057  | 2.22   | ng | 95   |
| 91) Benzo(g,h,i)perylene       | 17.40 | 276 | 75240  | 8.53   | ng | 94   |

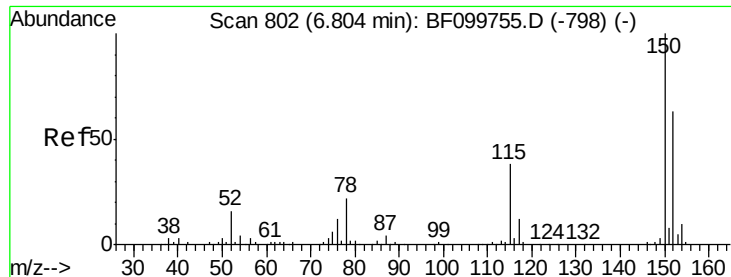
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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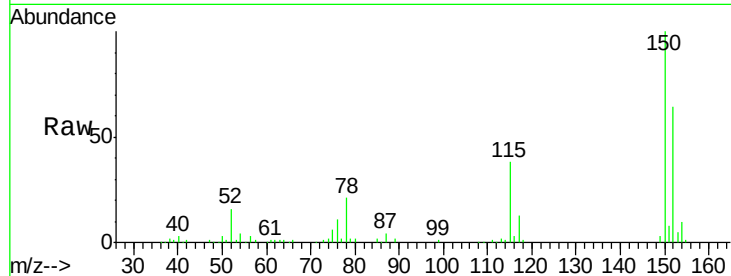


#1

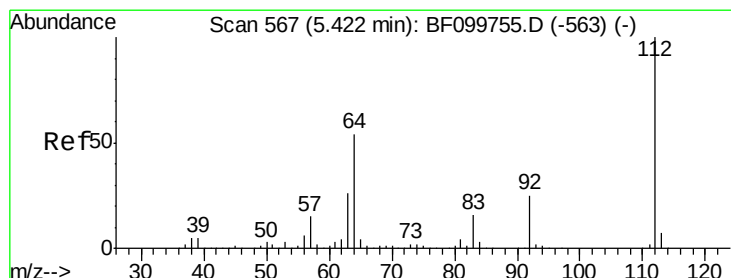
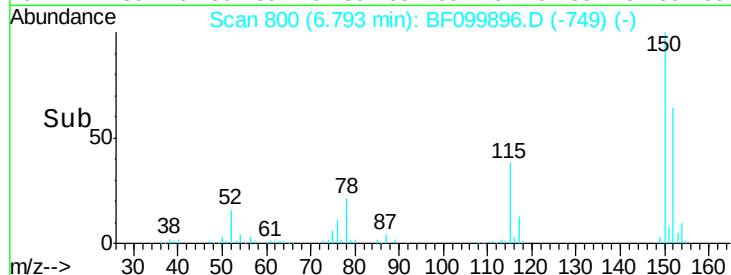
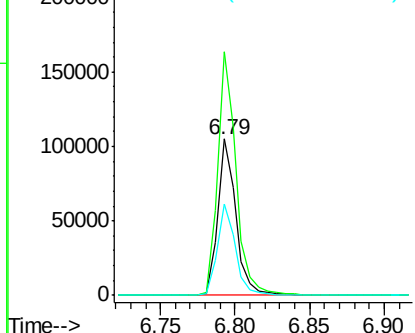
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.79 min Scan# 800  
Delta R.T. 0.00 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 89625  
Ion Ratio Lower Upper  
152 100  
150 156.1 124.6 186.8  
115 58.7 50.1 75.1



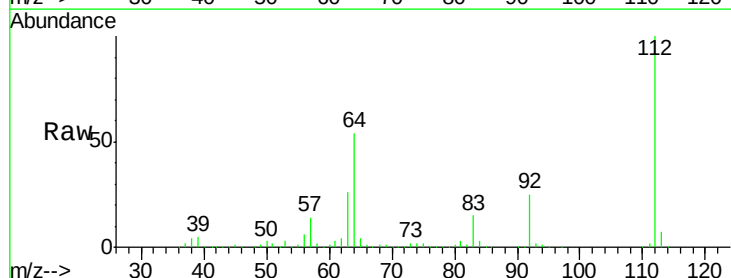
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



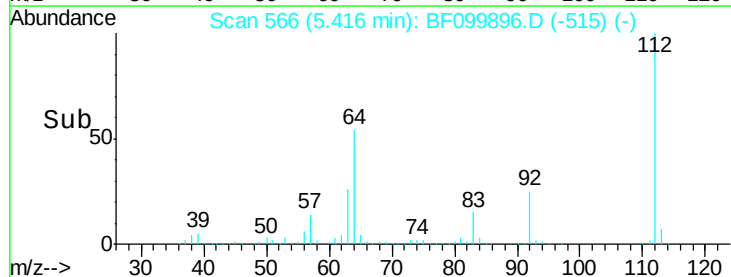
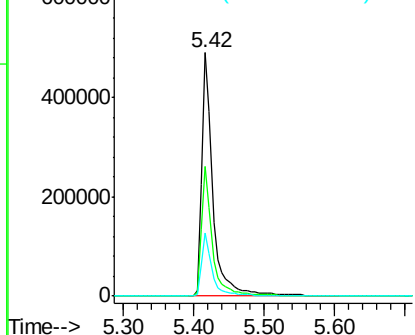
#5

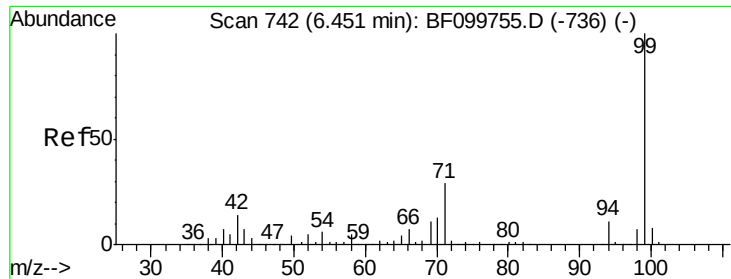
2-Fluorophenol  
Concen: 96.23 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.00 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

Tgt Ion:112 Resp: 549331  
Ion Ratio Lower Upper  
112 100  
64 53.5 47.9 71.9  
63 25.8 23.7 35.5



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: 98.43 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.00 min

Lab File: BF099896.D

Acq: 28 Oct 2017 1:04

Instrument :

BNA\_F

ClientSampled :

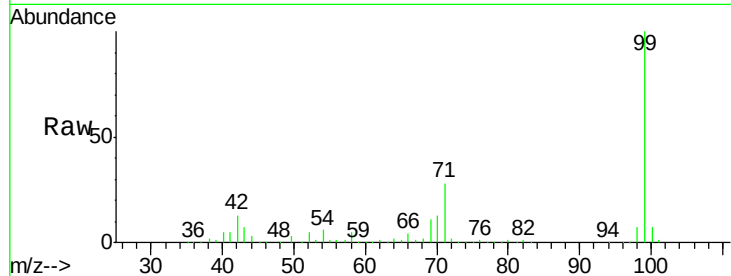
Tot Ion: 99 Resp: 666293

Ion Ratio Lower Upper

99 100

42 13.5 14.5 21.7#

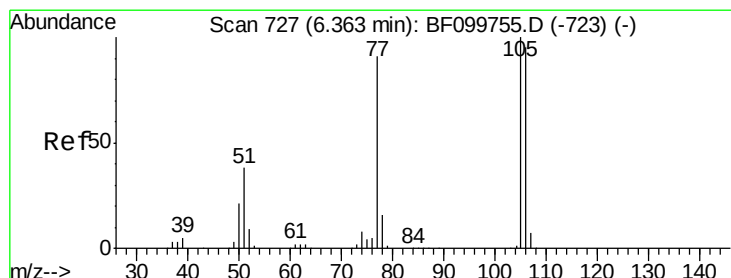
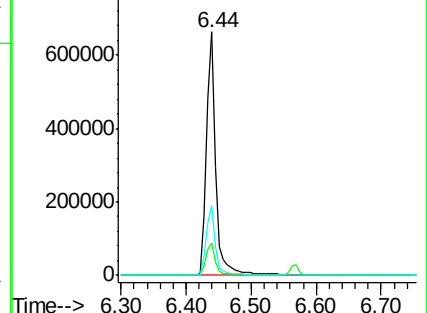
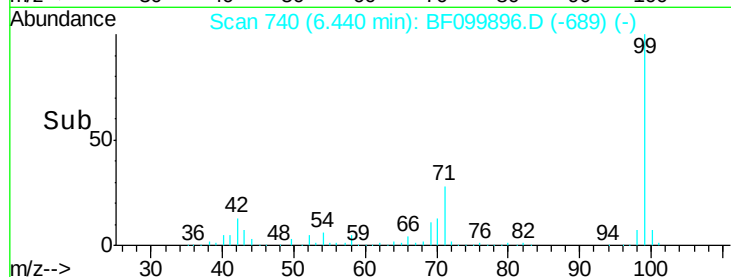
71 28.3 25.4 38.0



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



#9

Benzaldehyde

Concen: 2.60 ng

RT: 6.57 min Scan# 762

Delta R.T. 0.21 min

Lab File: BF099896.D

Acq: 28 Oct 2017 1:04

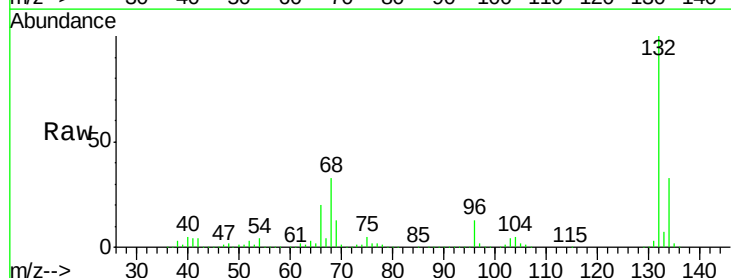
Tgt Ion: 77 Resp: 10499

Ion Ratio Lower Upper

77 100

105 97.2 81.1 121.1

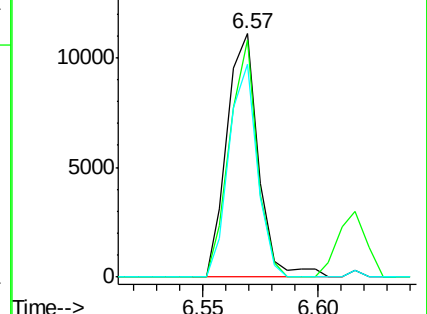
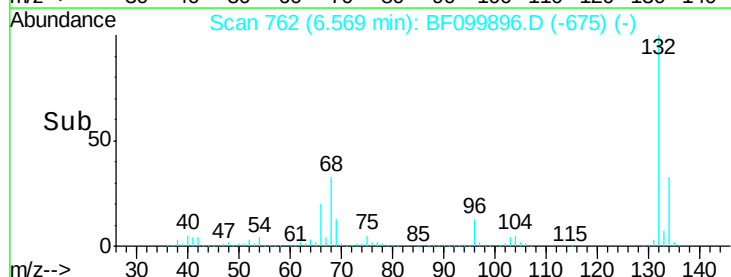
106 87.3 74.5 114.5

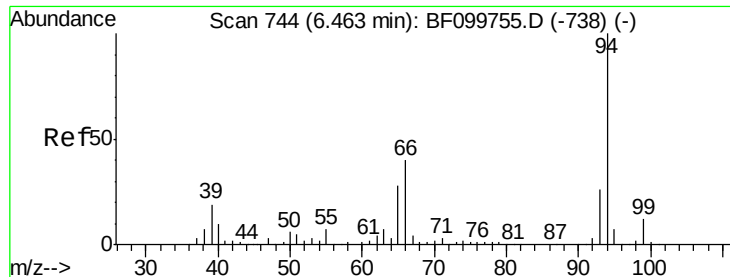


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): B

Ion 106.00 (105.70 to 106.70): B

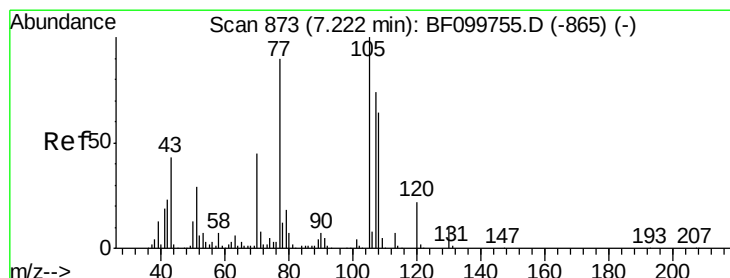
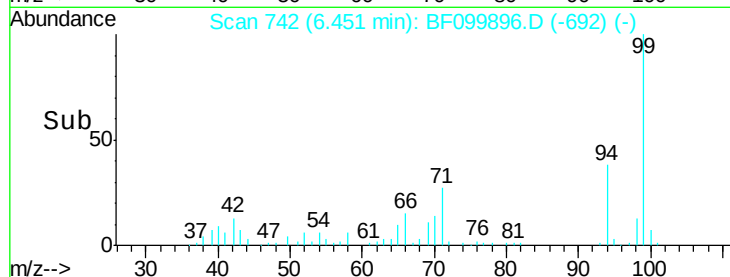
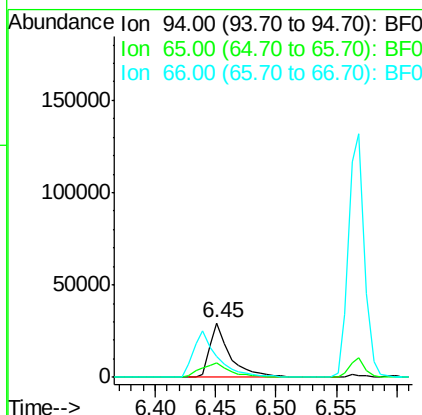
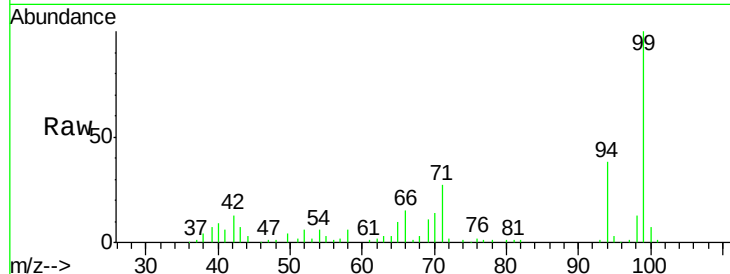




#10  
Phenol  
Concen: 4.73 ng  
RT: 6.45 min Scan# 742  
Delta R.T. -0.01 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

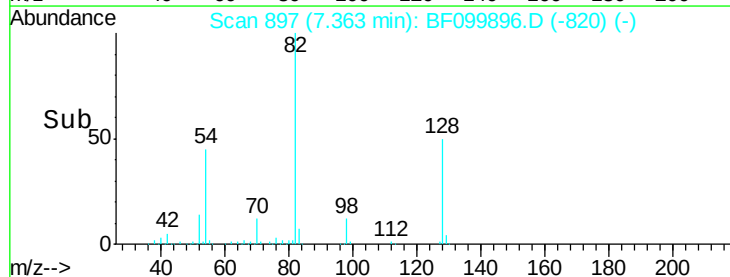
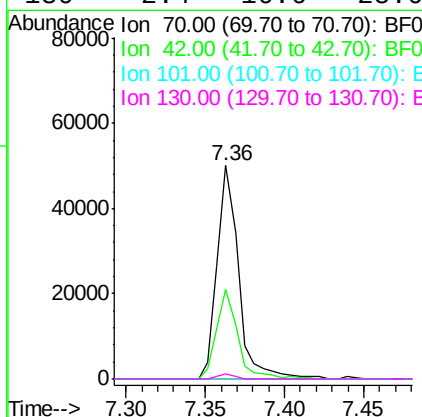
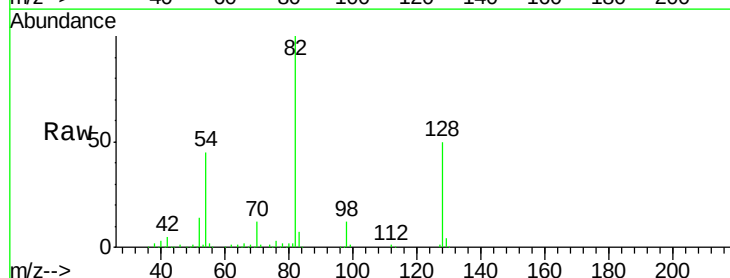
Instrument :  
BNA\_F  
ClientSampleId :

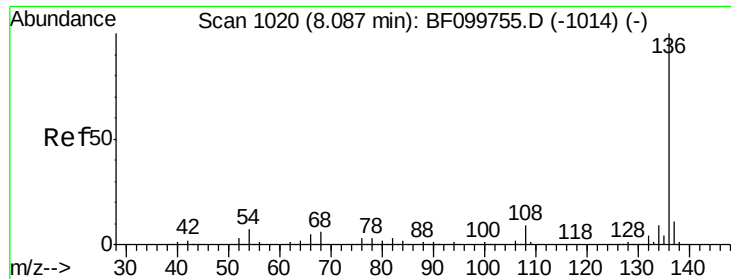
Tot Ion: 94 Resp: 35140  
Ion Ratio Lower Upper  
94 100  
65 27.0 7.9 47.9  
66 39.5 16.2 56.2



#19  
n-Nitroso-di-n-propylamine  
Concen: 11.89 ng  
RT: 7.36 min Scan# 897  
Delta R.T. 0.15 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

Tgt Ion: 70 Resp: 47156  
Ion Ratio Lower Upper  
70 100  
42 41.9 47.5 71.3#  
101 0.0 7.4 11.2#  
130 2.4 16.6 25.0#

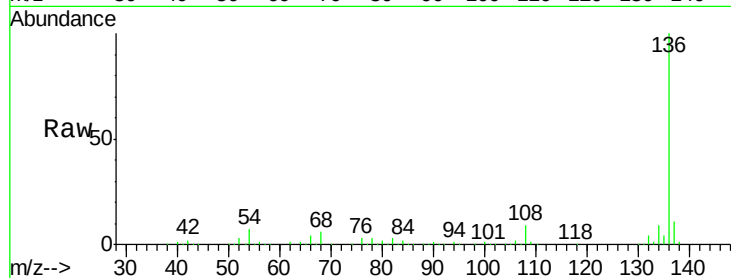




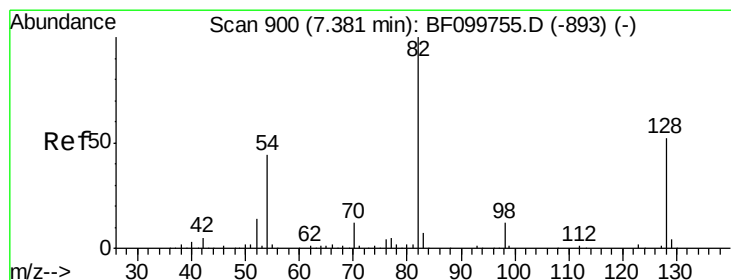
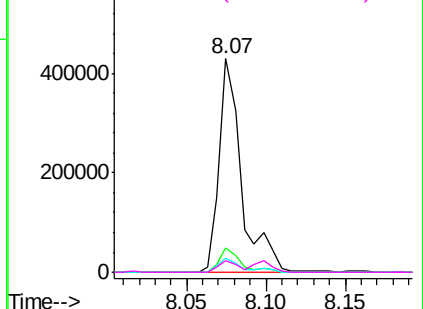
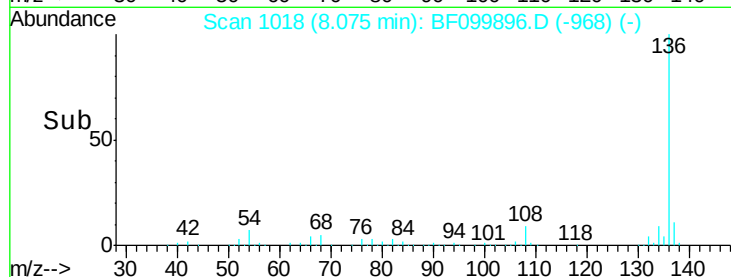
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.07 min Scan# 1018  
Delta R.T. -0.01 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 424945   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.2  | 8.9 13.3 |
| 54          | 6.5   | 6.6 9.8# |
| 68          | 5.6   | 5.0 7.4  |

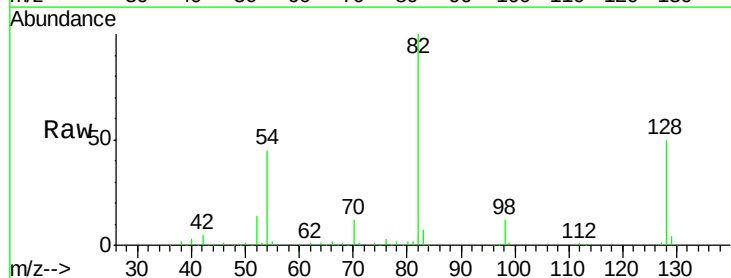


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

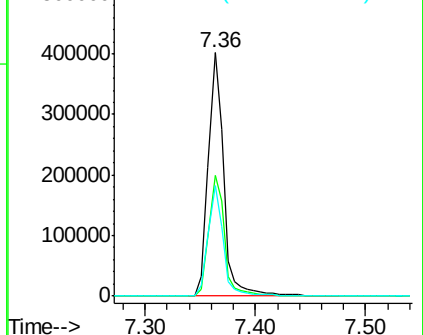
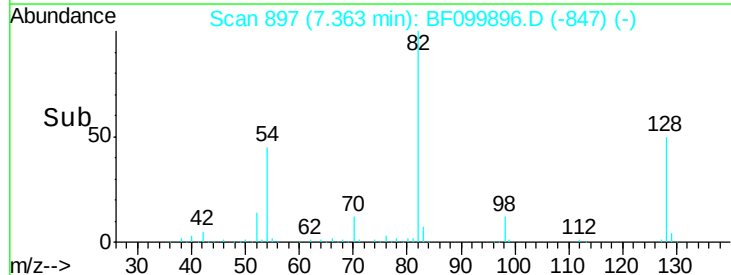


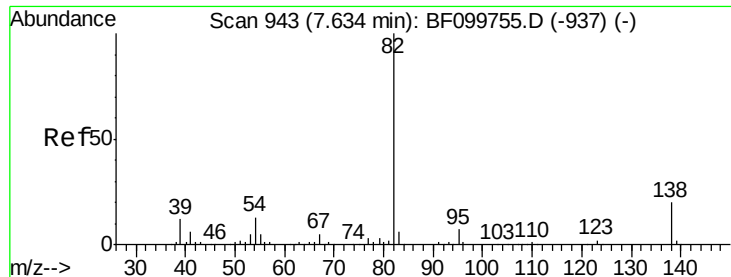
#23  
Nitrobenzene-d5  
Concen: 57.28 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 378096    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 49.6  | 36.1 54.1 |
| 54          | 45.1  | 41.4 62.2 |



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

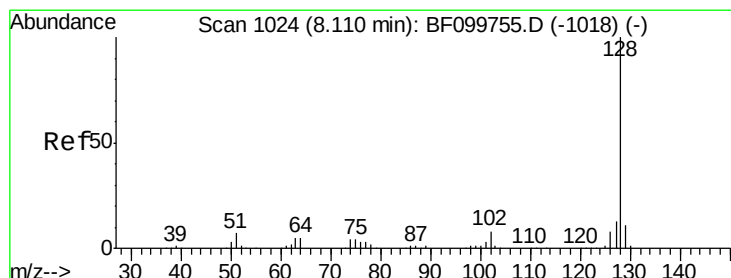
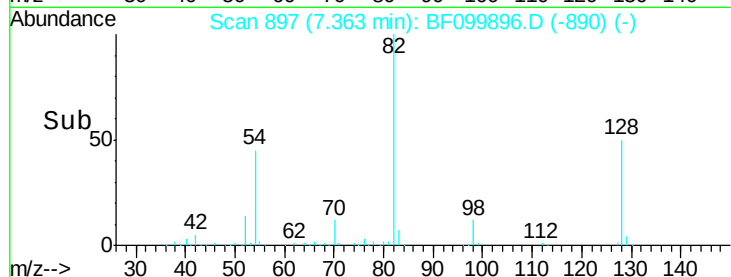
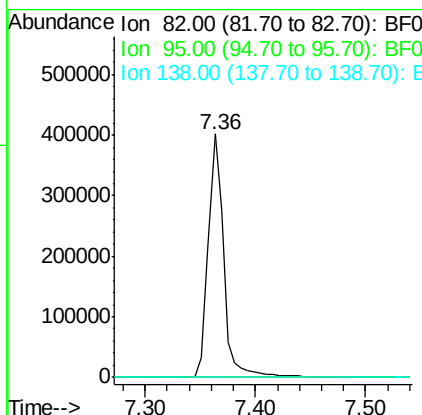
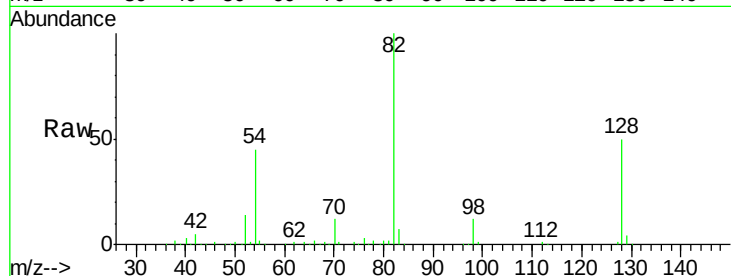




#25  
Isophorone  
Concen: 31.57 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.26 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

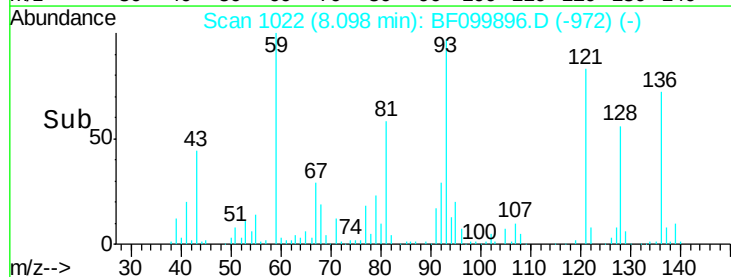
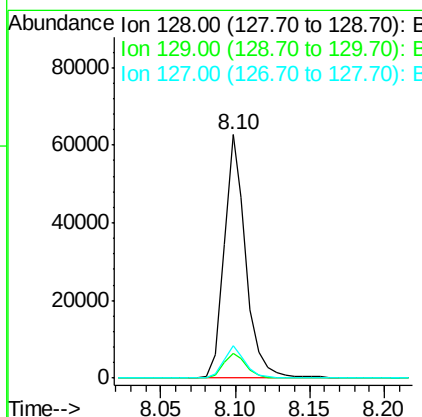
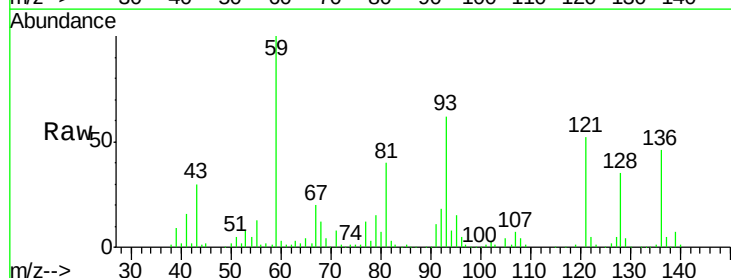
Instrument :  
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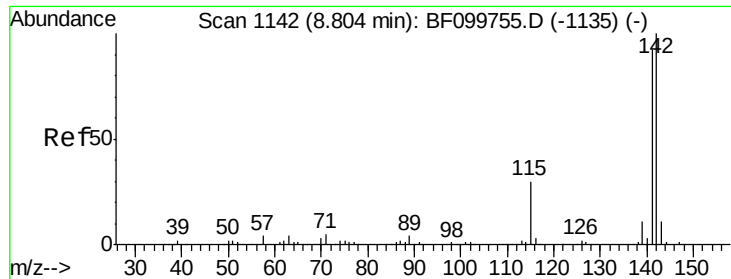
Tot Ion: 82 Resp: 378096  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#



#31  
Naphthalene  
Concen: 3.12 ng  
RT: 8.10 min Scan# 1022  
Delta R.T. -0.01 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

Tgt Ion: 128 Resp: 63952  
Ion Ratio Lower Upper  
128 100  
129 10.4 8.8 13.2  
127 13.5 10.9 16.3

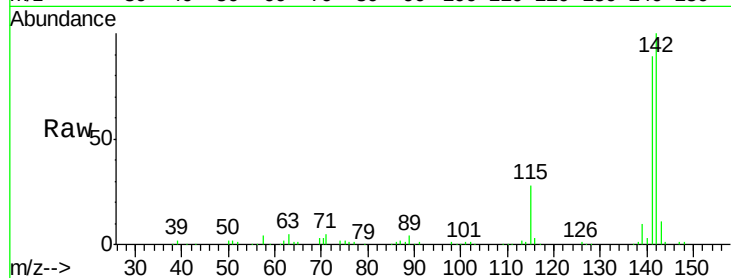




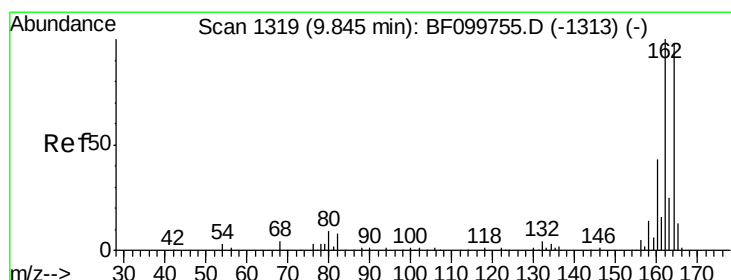
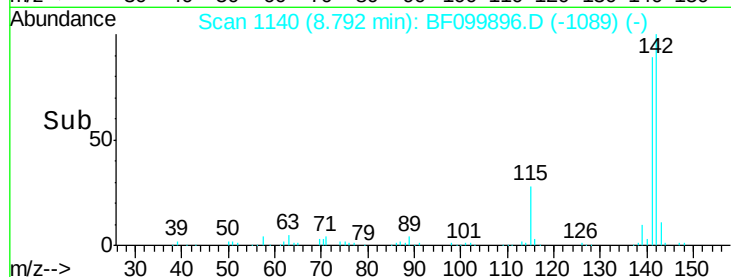
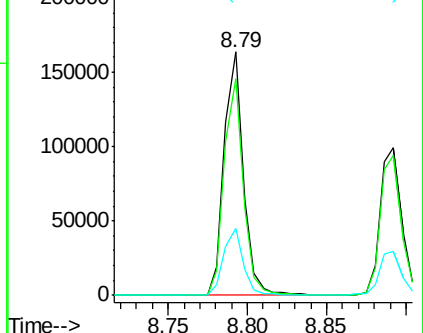
#37  
2-Methylnaphthalene  
Concen: 10.06 ng  
RT: 8.79 min Scan# 1140  
Delta R.T. 0.00 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:142 Resp: 138276  
Ion Ratio Lower Upper  
142 100  
141 89.0 70.8 106.2  
115 27.7 26.1 39.1

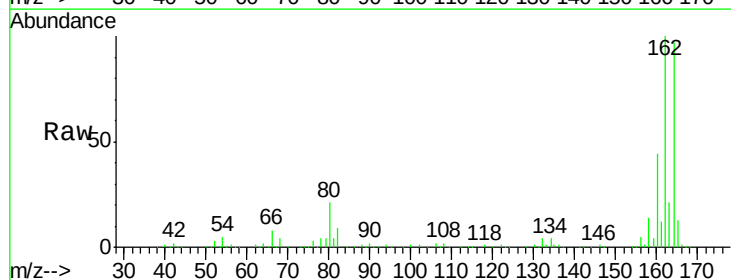


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

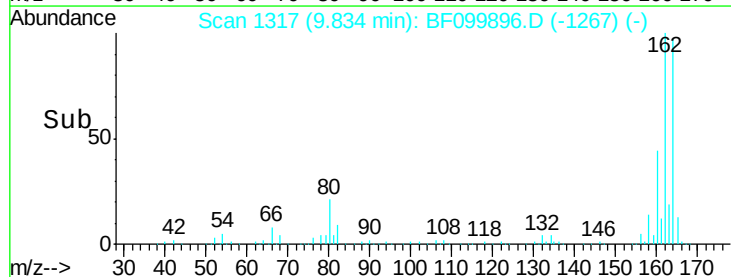
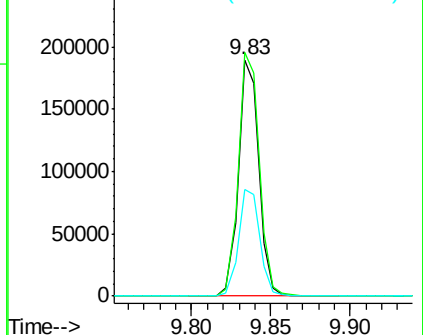


#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.83 min Scan# 1317  
Delta R.T. -0.01 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

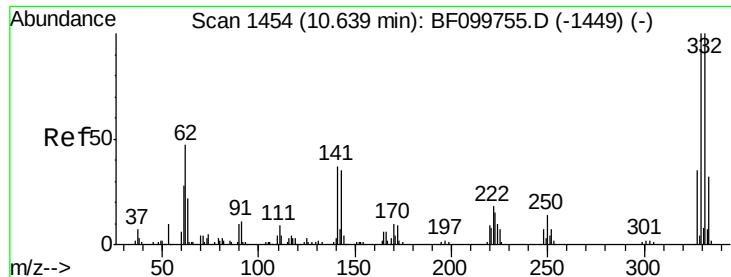
Tgt Ion:164 Resp: 169224  
Ion Ratio Lower Upper  
164 100  
162 103.0 86.1 129.1  
160 44.9 38.3 57.5



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



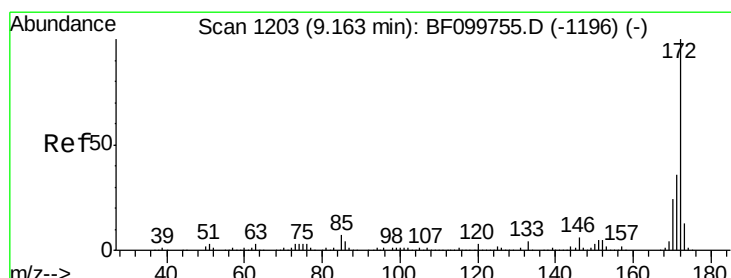
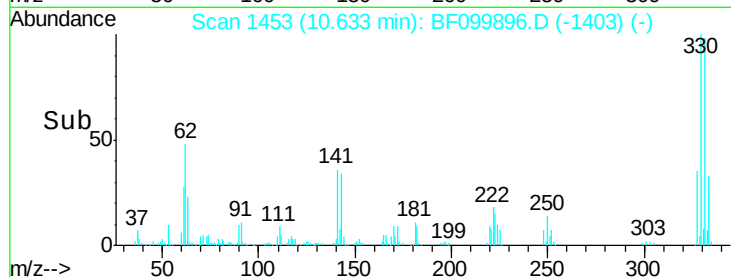
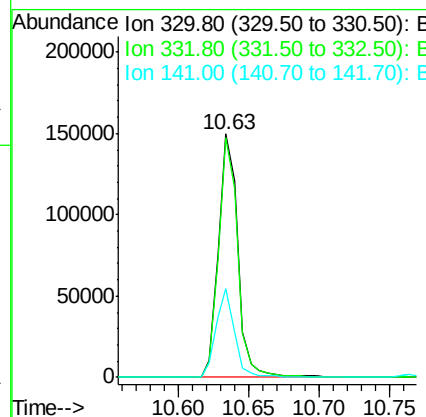
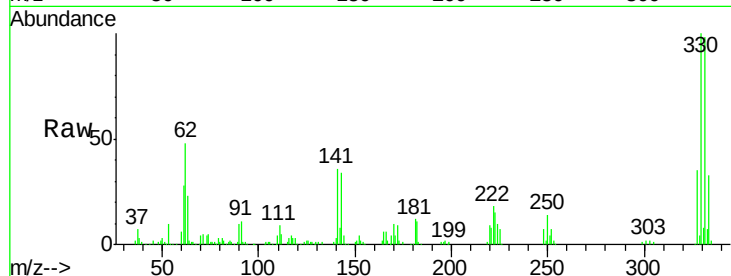




#41  
 2,4,6-Tribromophenol  
 Concen: 93.19 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. -0.01 min  
 Lab File: BF099896.D  
 Acq: 28 Oct 2017 1:04

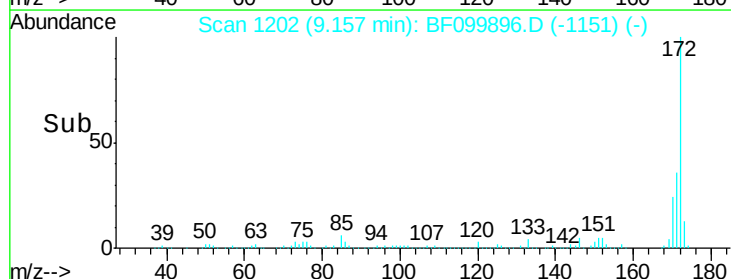
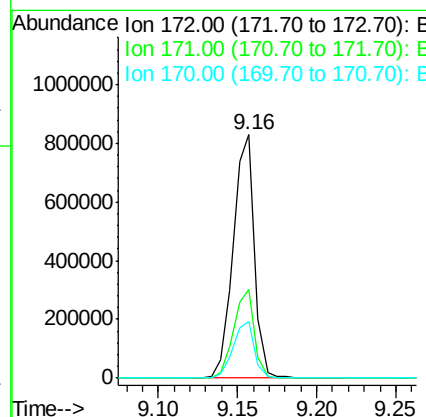
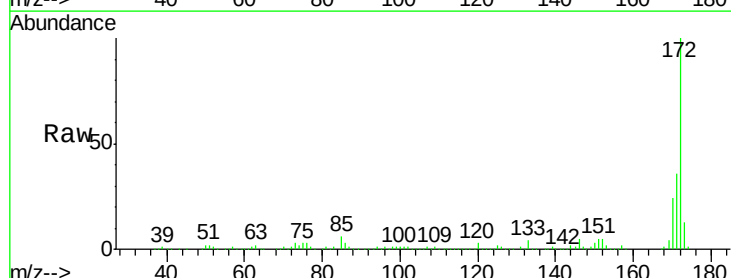
Instrument :  
 BNA\_F  
 ClientSampleId :

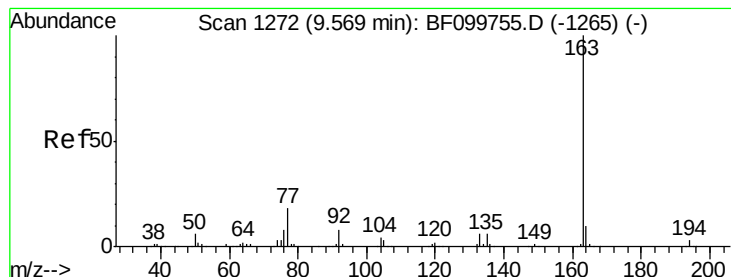
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.9  | 77.0  | 115.6 |
| 141     | 35.0  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 69.94 ng  
 RT: 9.16 min Scan# 1202  
 Delta R.T. 0.00 min  
 Lab File: BF099896.D  
 Acq: 28 Oct 2017 1:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.7  | 44.5  |
| 170     | 23.5  | 19.6  | 29.4  |





#49

Dimethylphthalate

Concen: 10.30 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.01 min

Lab File: BF099896.D

Acq: 28 Oct 2017 1:04

Instrument :

BNA\_F

ClientSampled :

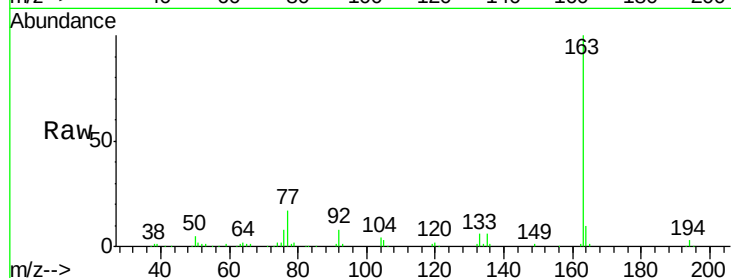
Tot Ion:163 Resp: 138094

Ion Ratio Lower Upper

163 100

194 3.4 2.7 4.1

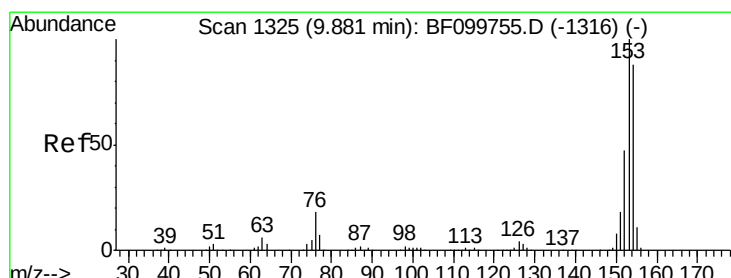
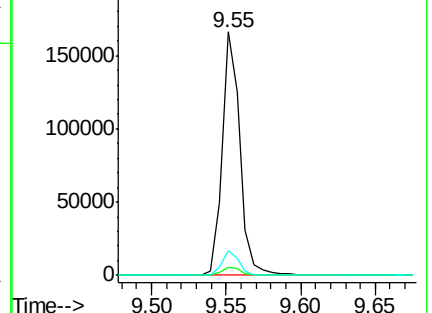
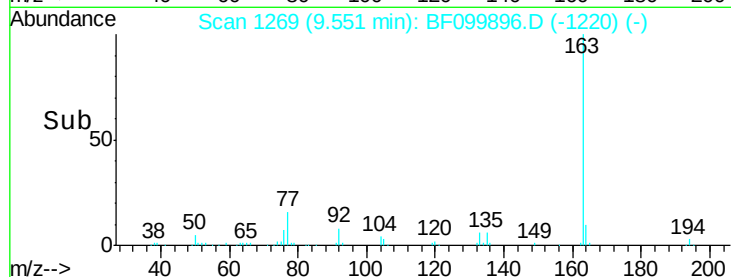
164 10.0 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 6.71 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.01 min

Lab File: BF099896.D

Acq: 28 Oct 2017 1:04

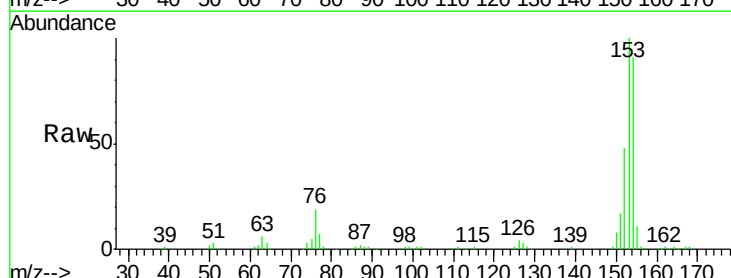
Tgt Ion:154 Resp: 70237

Ion Ratio Lower Upper

154 100

153 109.7 91.2 136.8

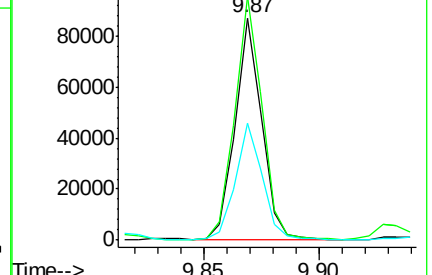
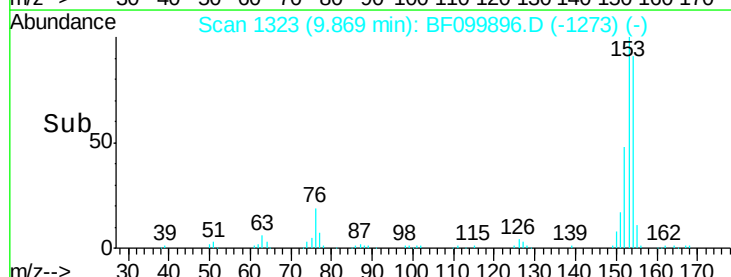
152 52.9 43.8 65.8

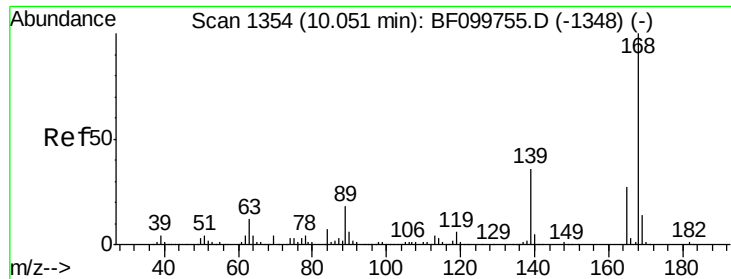


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

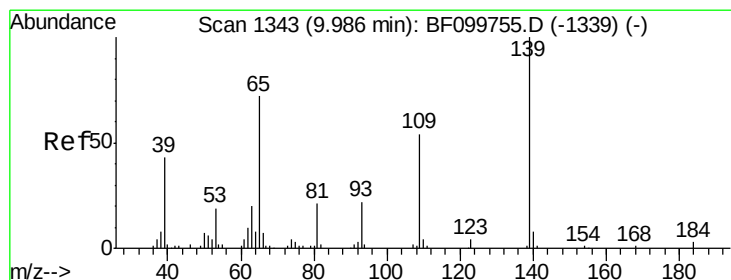
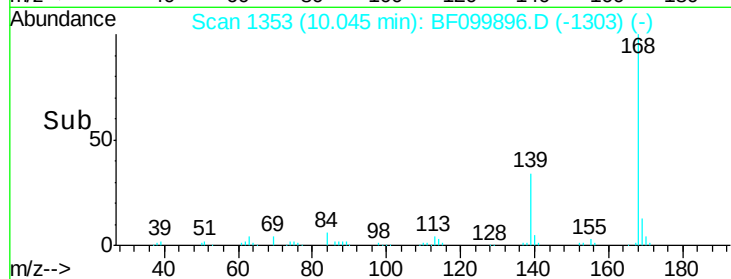
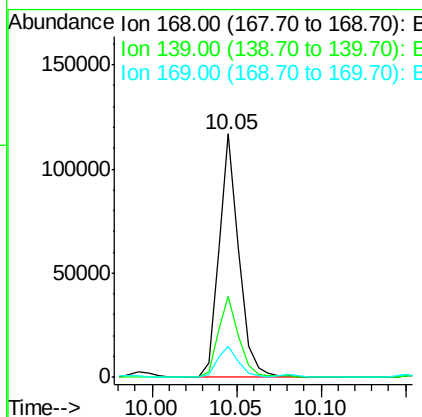
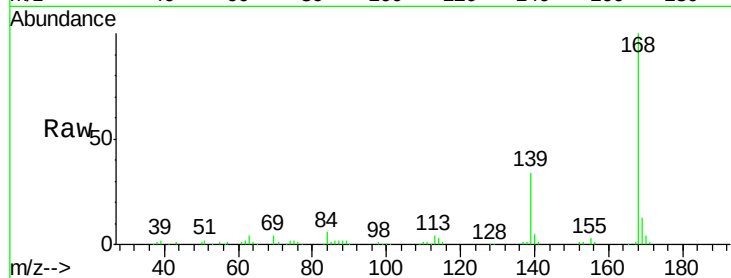




#54  
Dibenzofuran  
Concen: 6.53 ng  
RT: 10.05 min Scan# 1353  
Delta R.T. -0.01 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

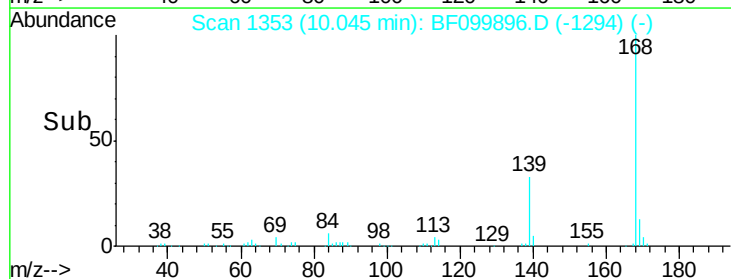
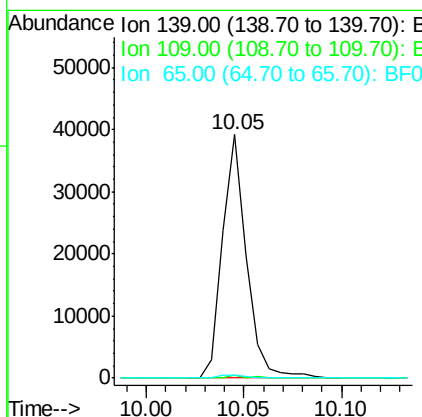
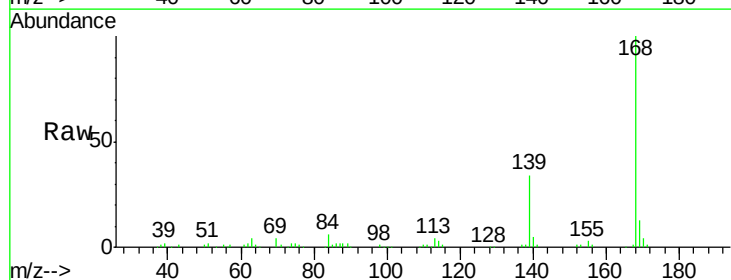
Instrument :  
BNA\_F  
ClientSampled :

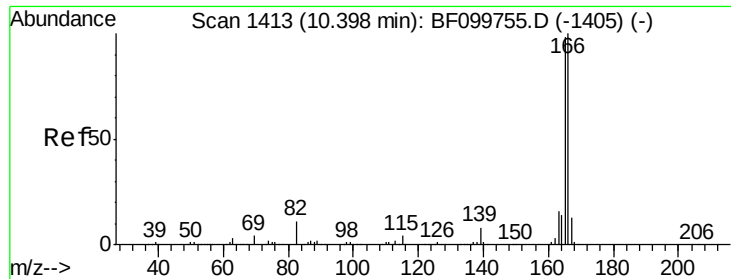
Tot Ion:168 Resp: 96409  
Ion Ratio Lower Upper  
168 100  
139 33.6 30.1 45.1  
169 13.0 10.9 16.3



#55  
4-Nitrophenol  
Concen: 19.37 ng  
RT: 10.05 min Scan# 1353  
Delta R.T. 0.05 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

Tgt Ion:139 Resp: 33598  
Ion Ratio Lower Upper  
139 100  
109 1.3 48.4 88.4#  
65 1.3 72.6 112.6#

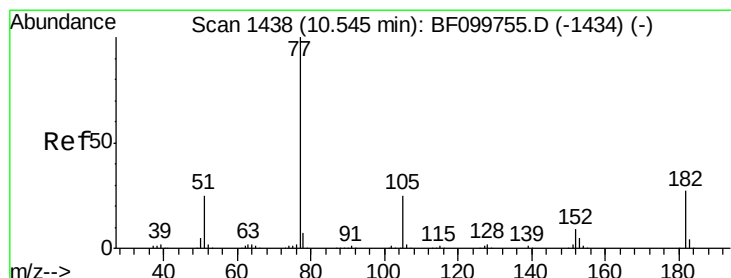
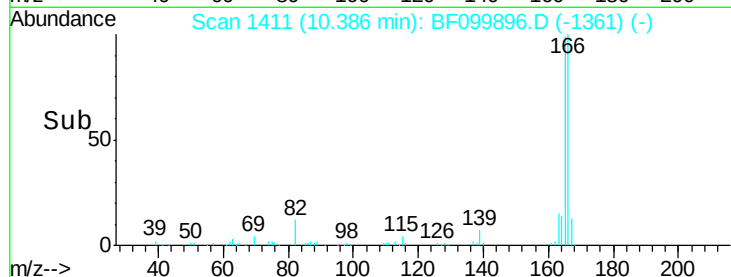
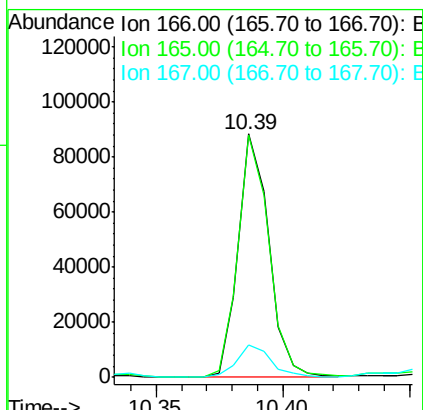
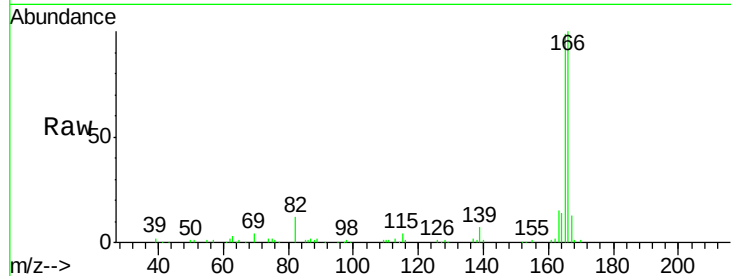




#57  
 Fluorene  
 Concen: 6.10 ng  
 RT: 10.39 min Scan# 1411  
 Delta R.T. -0.01 min  
 Lab File: BF099896.D  
 Acq: 28 Oct 2017 1:04

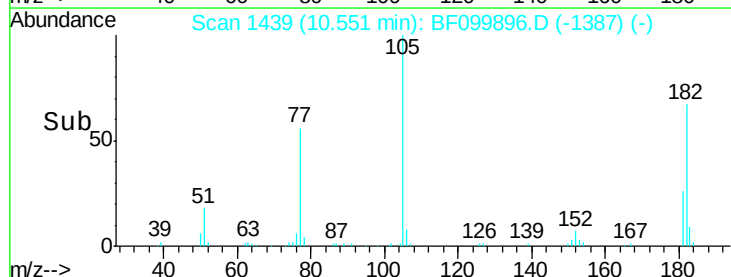
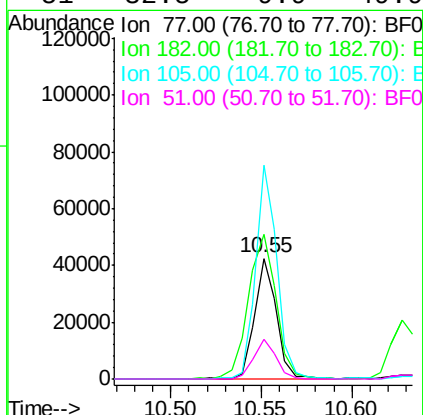
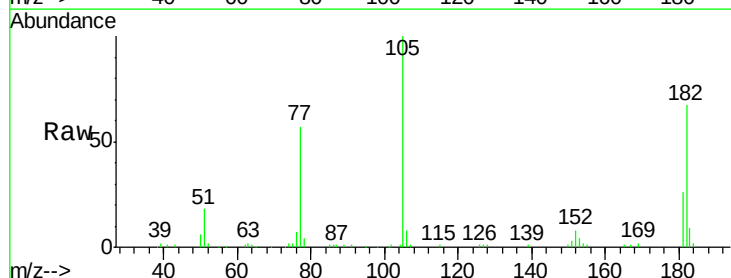
Instrument :  
 BNA\_F  
 ClientSampleId :

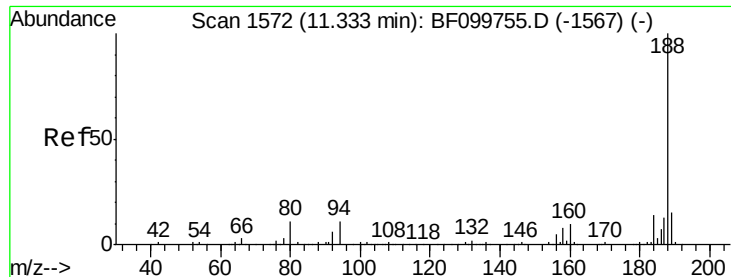
Tot Ion:166 Resp: 74643  
 Ion Ratio Lower Upper  
 166 100  
 165 99.3 79.8 119.8  
 167 13.4 10.6 16.0



#62  
 Azobenzene  
 Concen: 3.21 ng  
 RT: 10.55 min Scan# 1439  
 Delta R.T. 0.01 min  
 Lab File: BF099896.D  
 Acq: 28 Oct 2017 1:04

Tgt Ion: 77 Resp: 35235  
 Ion Ratio Lower Upper  
 77 100  
 182 119.1 1.7 41.7#  
 105 176.6 3.0 43.0#  
 51 32.5 9.9 49.9

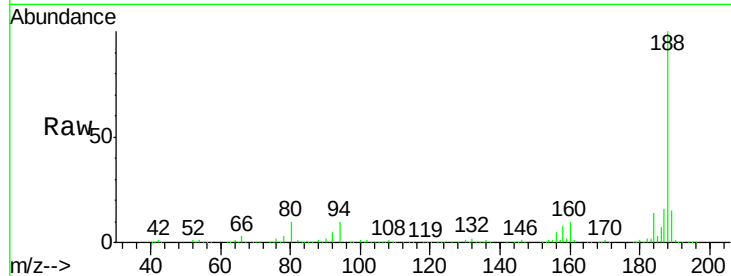




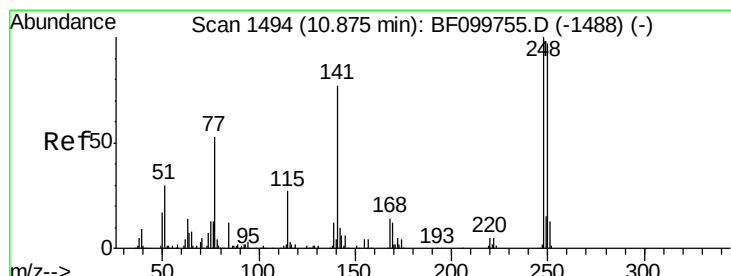
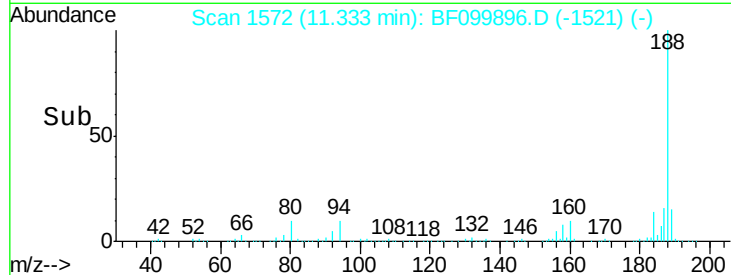
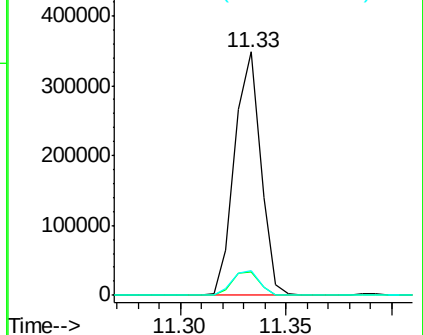
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.33 min Scan# 1572  
 Delta R.T. 0.00 min  
 Lab File: BF099896.D  
 Acq: 28 Oct 2017 1:04

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:188 Resp: 296030  
 Ion Ratio Lower Upper  
 188 100  
 94 9.8 8.5 12.7  
 80 10.0 9.2 13.8

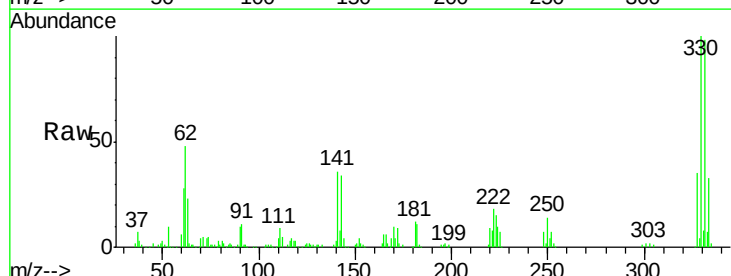


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

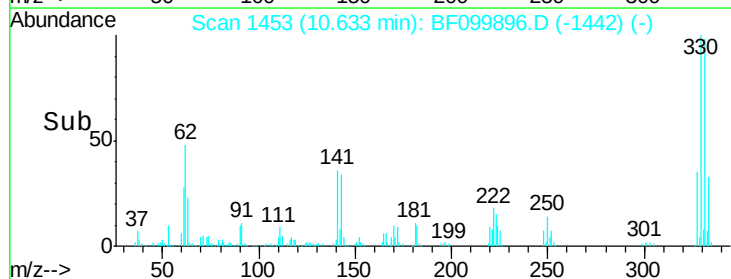
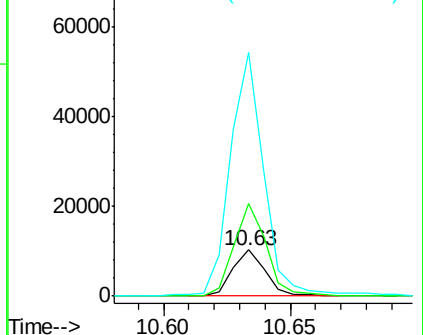


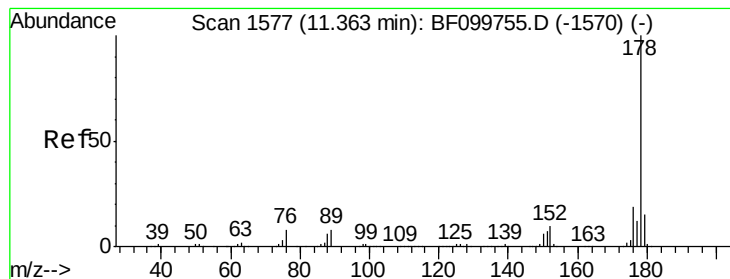
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.94 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. -0.24 min  
 Lab File: BF099896.D  
 Acq: 28 Oct 2017 1:04

Tgt Ion:248 Resp: 9166  
 Ion Ratio Lower Upper  
 248 100  
 250 198.9 76.9 115.3#  
 141 526.7 74.4 111.6#



Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 41.87 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF099896.D

Acq: 28 Oct 2017 1:04

Instrument :

BNA\_F

ClientSampleId :

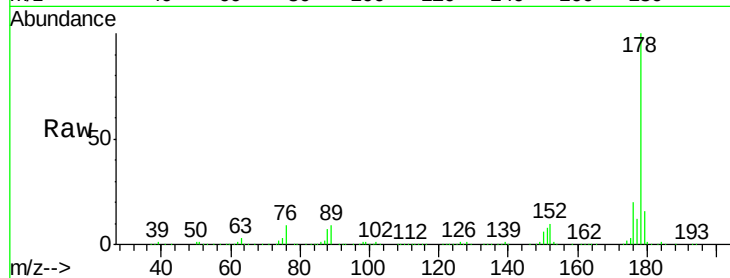
Tot Ion:178 Resp: 699480

Ion Ratio Lower Upper

178 100

176 19.5 15.8 23.8

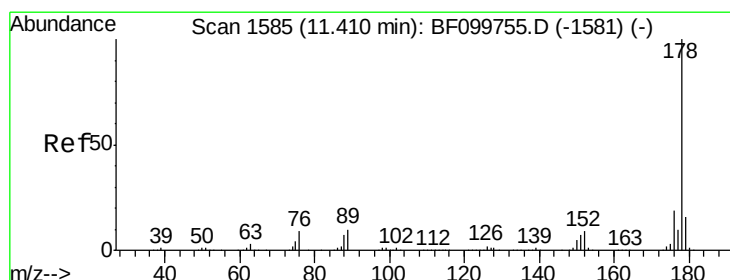
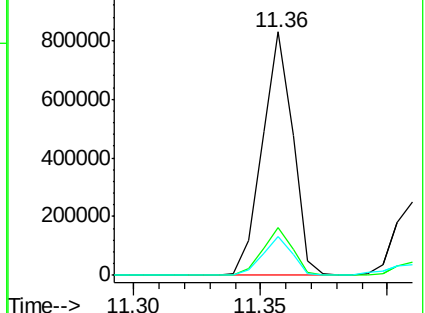
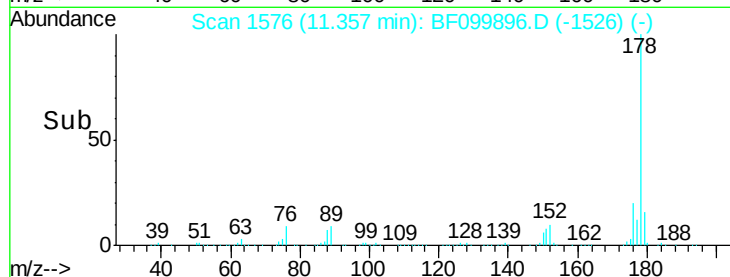
179 15.8 13.0 19.6



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



#71

Anthracene

Concen: 12.59 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF099896.D

Acq: 28 Oct 2017 1:04

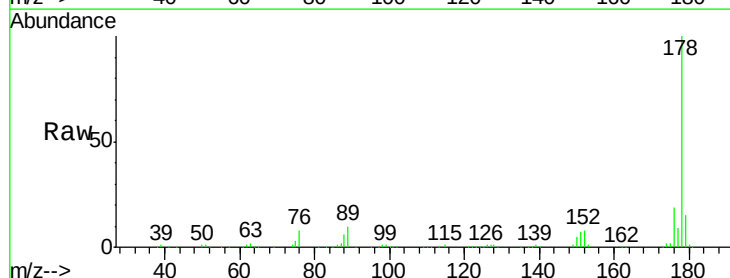
Tgt Ion:178 Resp: 213559

Ion Ratio Lower Upper

178 100

176 18.6 15.4 23.2

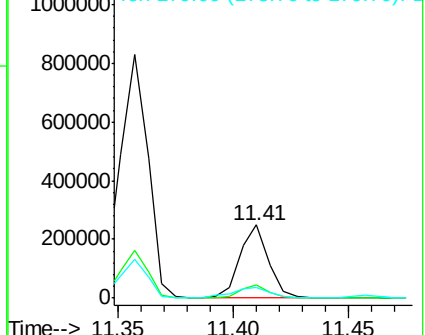
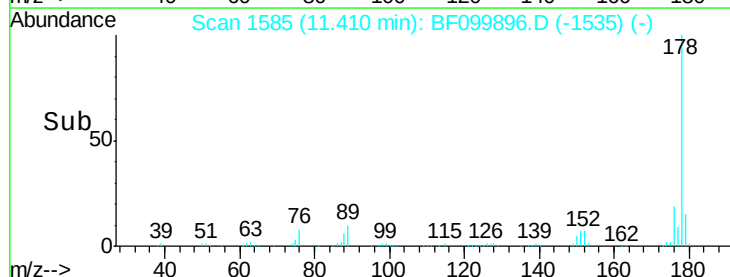
179 15.1 12.6 19.0

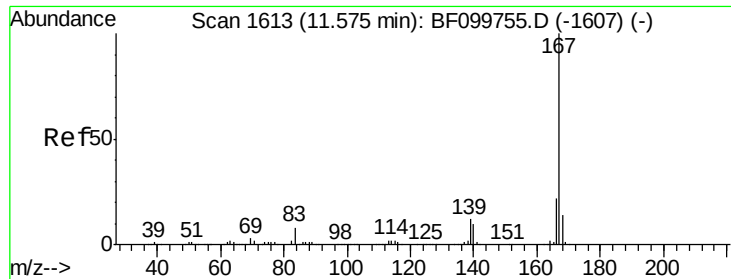


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.55 ng

RT: 11.57 min Scan# 1613

Delta R.T. 0.00 min

Lab File: BF099896.D

Acq: 28 Oct 2017 1:04

Instrument :

BNA\_F

ClientSampleId :

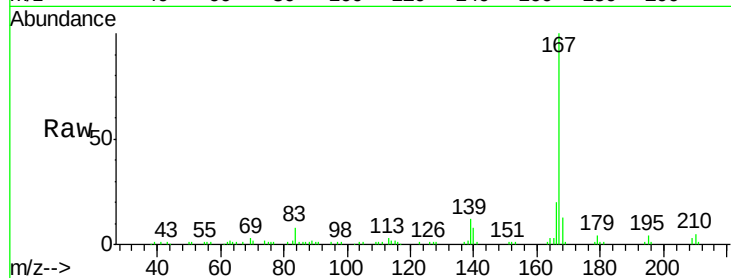
Tot Ion:167 Resp: 72566

Ion Ratio Lower Upper

167 100

166 19.5 17.6 26.4

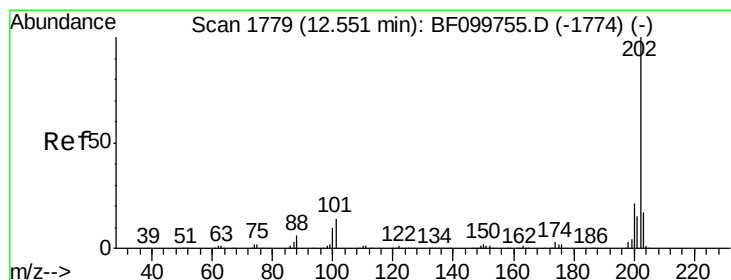
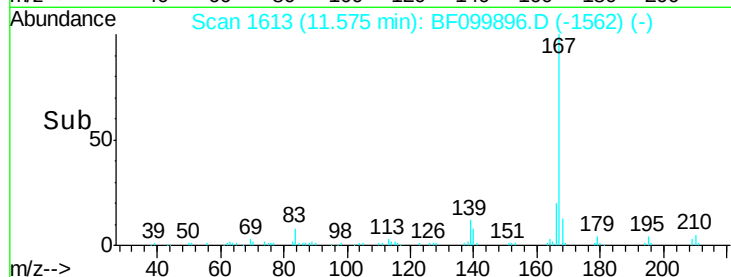
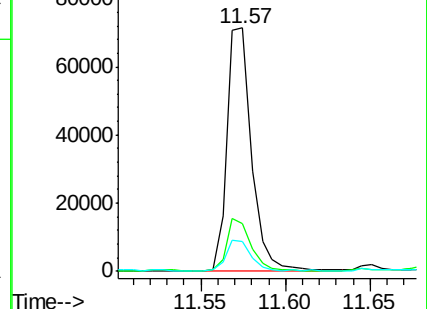
139 12.2 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 32.72 ng

RT: 12.55 min Scan# 1779

Delta R.T. 0.00 min

Lab File: BF099896.D

Acq: 28 Oct 2017 1:04

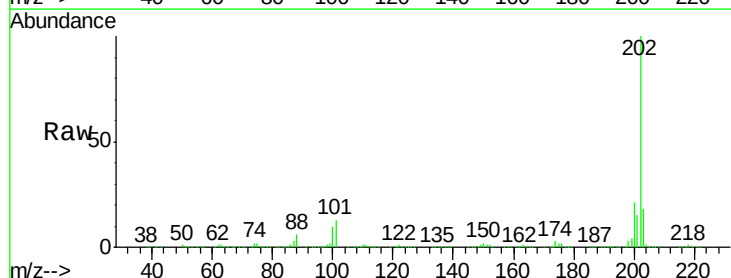
Tgt Ion:202 Resp: 568035

Ion Ratio Lower Upper

202 100

101 13.1 0.0 34.1

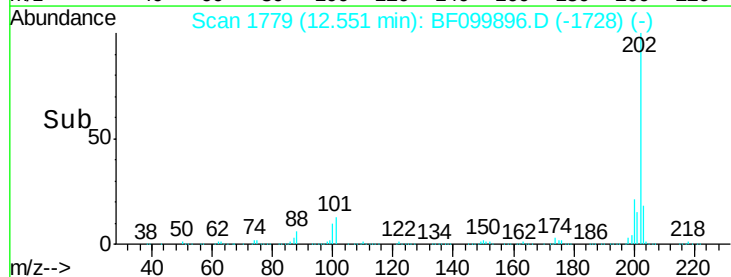
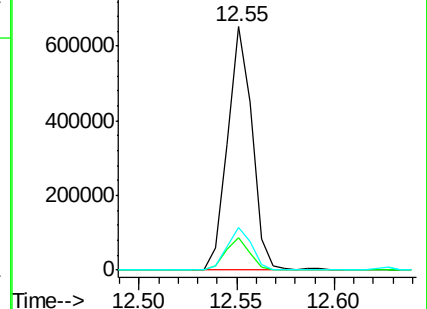
203 17.7 0.0 38.1

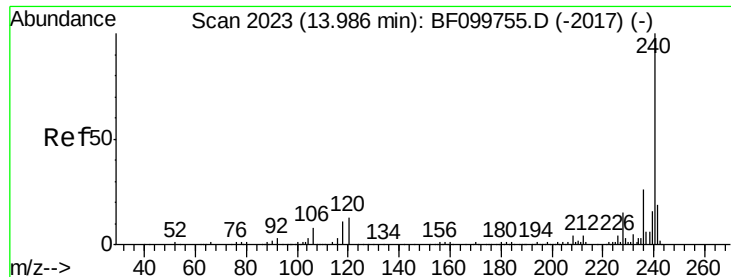


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

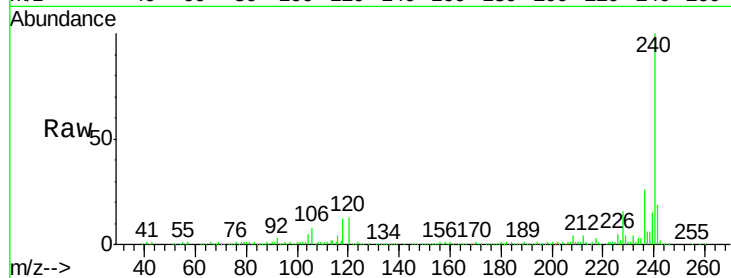




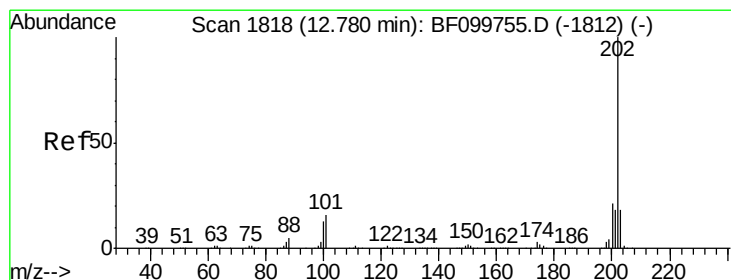
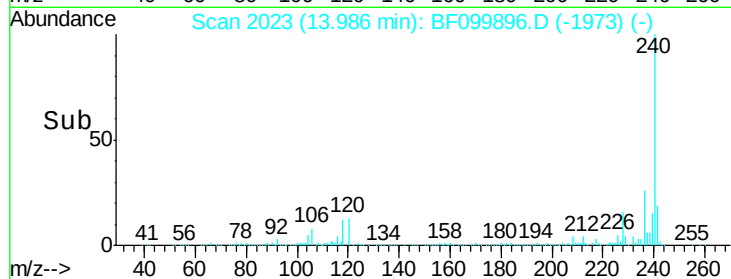
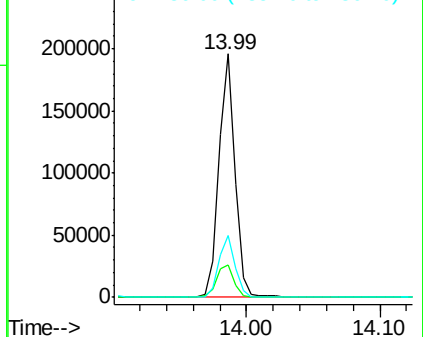
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.99 min Scan# 2023  
Delta R.T. -0.01 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:240 Resp: 166893  
Ion Ratio Lower Upper  
240 100  
120 13.4 9.5 14.3  
236 25.5 20.7 31.1

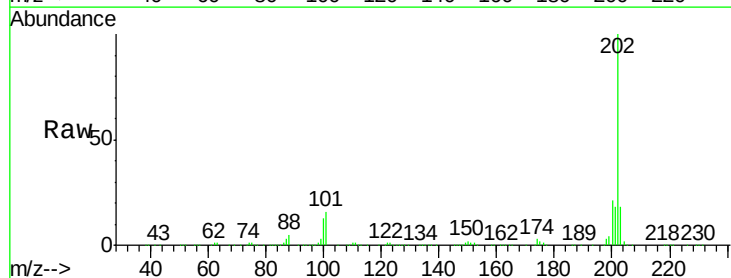


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

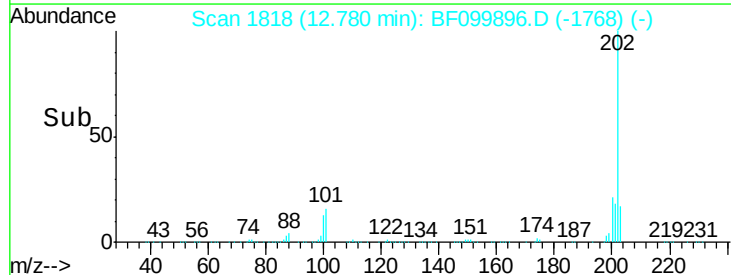
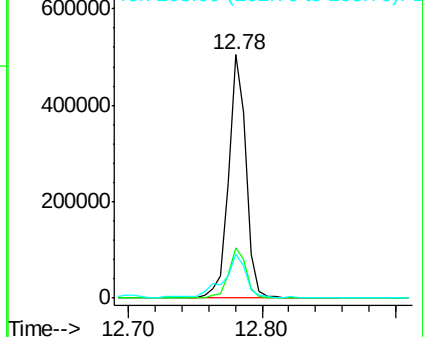


#77  
Pyrene  
Concen: 36.39 ng  
RT: 12.78 min Scan# 1818  
Delta R.T. -0.01 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

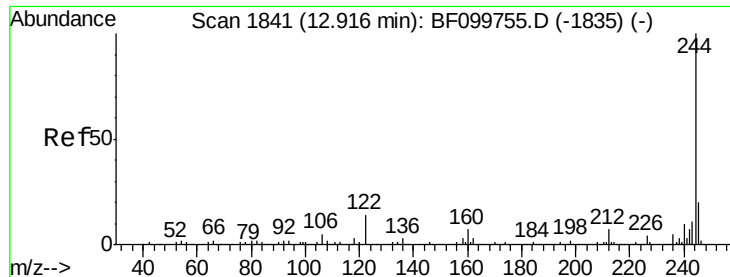
Tgt Ion:202 Resp: 461854  
Ion Ratio Lower Upper  
202 100  
200 20.9 17.4 26.2  
203 17.8 14.3 21.5



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



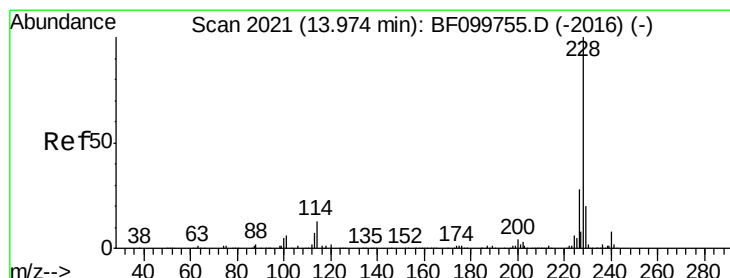
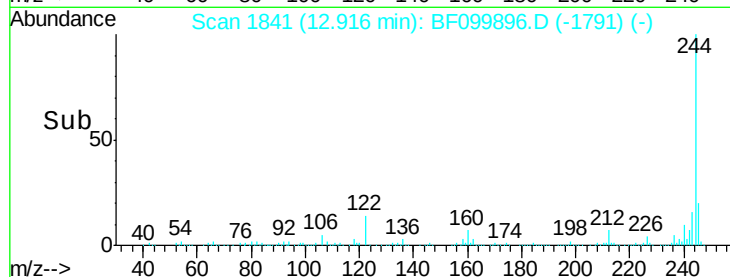
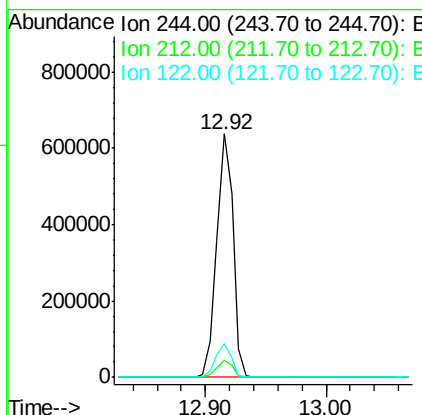
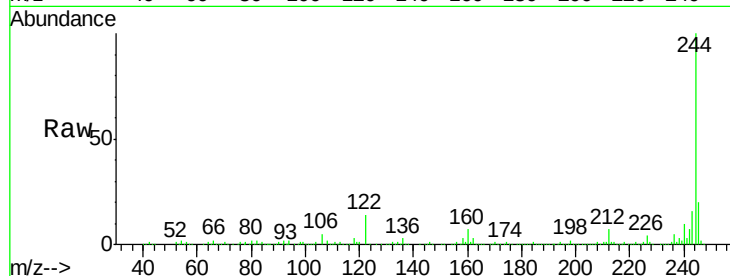




#78  
 Terphenyl-d14  
 Concen: 77.11 ng  
 RT: 12.92 min Scan# 1841  
 Delta R.T. -0.01 min  
 Lab File: BF099896.D  
 Acq: 28 Oct 2017 1:04

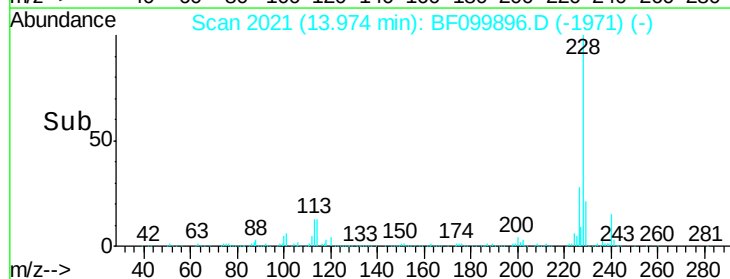
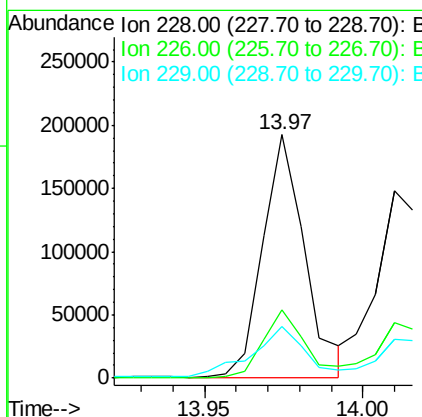
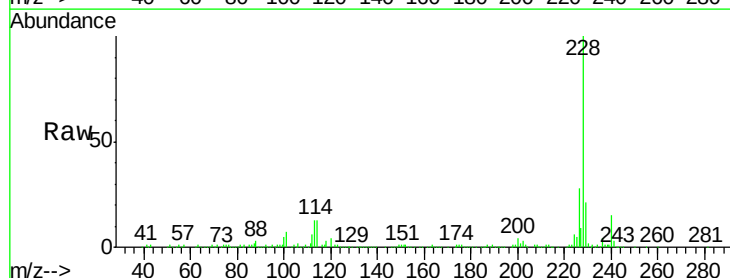
Instrument :  
 BNA\_F  
 ClientSampleId :

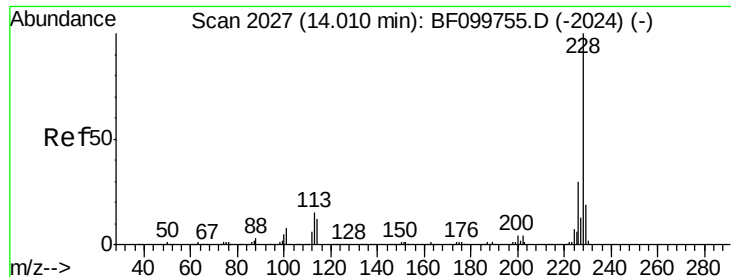
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 5.4   | 8.0   |
| 122     | 14.0  | 11.0  | 16.4  |



#80  
 Benzo(a)anthracene  
 Concen: 16.75 ng  
 RT: 13.97 min Scan# 2021  
 Delta R.T. -0.01 min  
 Lab File: BF099896.D  
 Acq: 28 Oct 2017 1:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.8  | 22.6  | 33.8  |
| 229     | 21.2  | 15.8  | 23.6  |





#82

Chrysene

Concen: 15.25 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF099896.D

Acq: 28 Oct 2017 1:04

Instrument :

BNA\_F

ClientSampled :

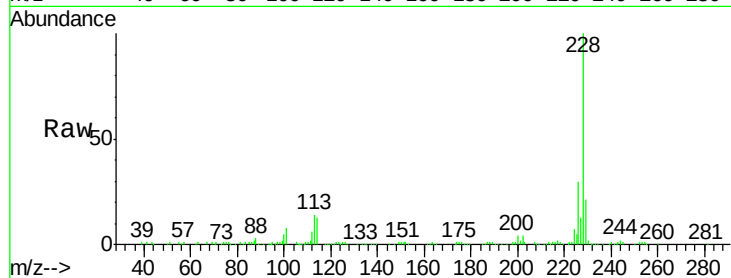
Tot Ion:228 Resp: 151701

Ion Ratio Lower Upper

228 100

226 29.7 25.0 37.6

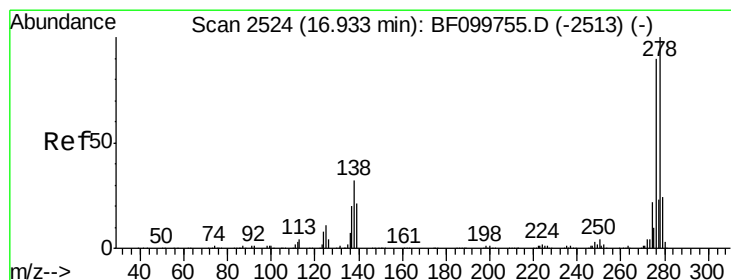
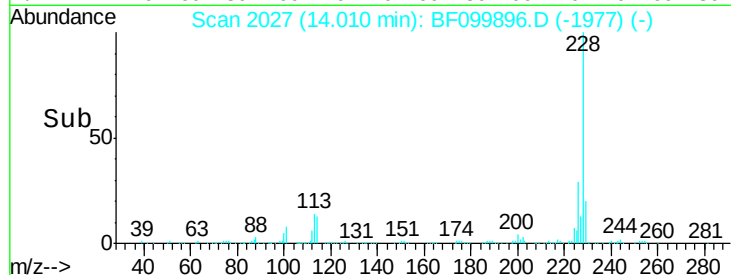
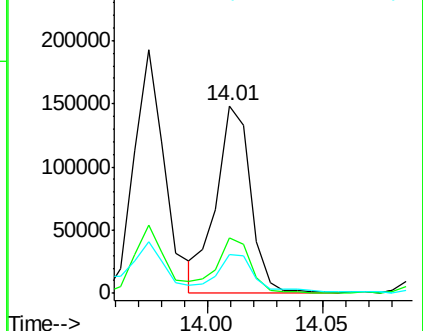
229 21.0 16.2 24.4



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: 8.46 ng

RT: 16.95 min Scan# 2527

Delta R.T. 0.00 min

Lab File: BF099896.D

Acq: 28 Oct 2017 1:04

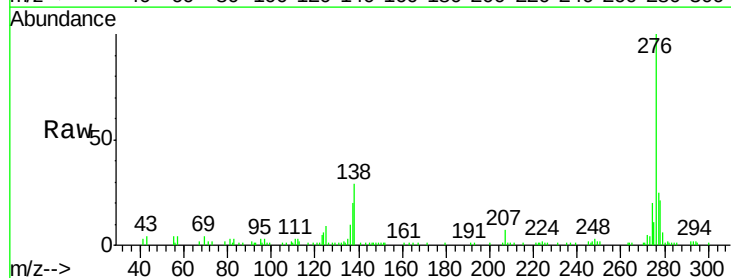
Tgt Ion:276 Resp: 77217

Ion Ratio Lower Upper

276 100

138 30.4 25.0 37.6

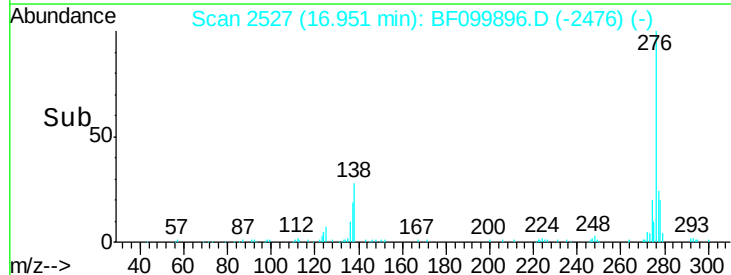
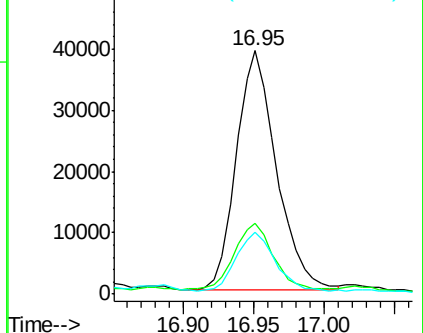
277 25.2 20.1 30.1

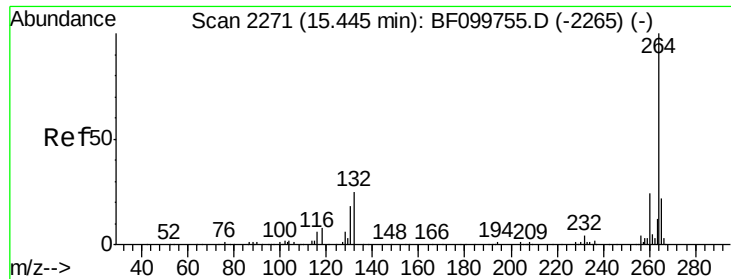


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

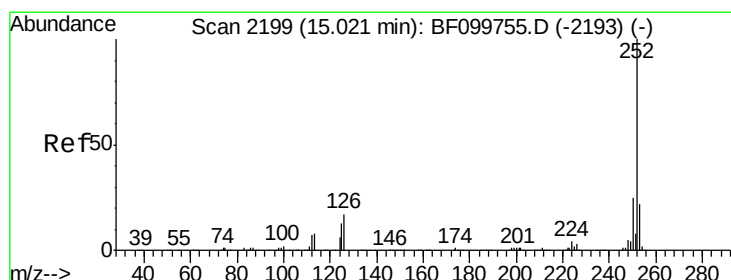
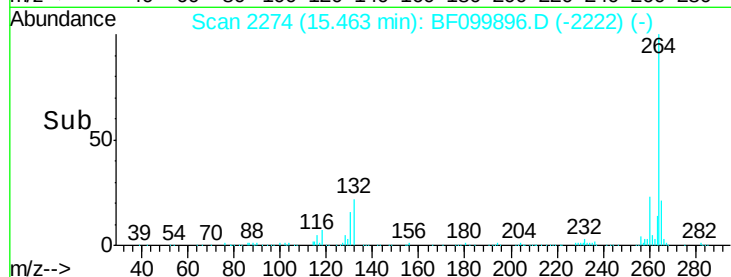
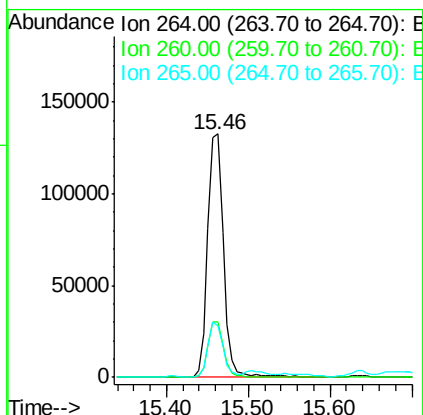
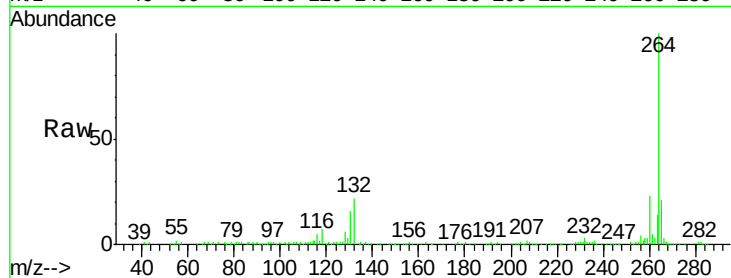




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.46 min Scan# 2274  
Delta R.T. 0.01 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

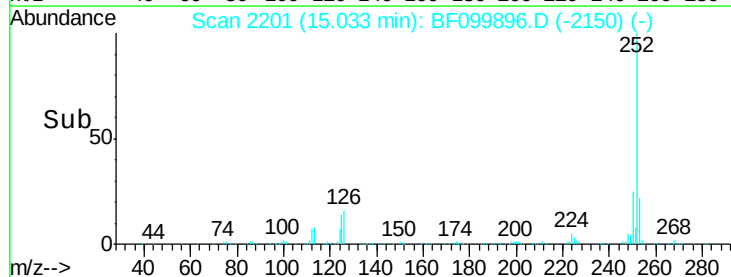
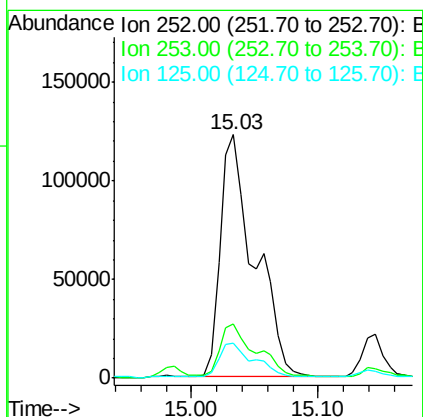
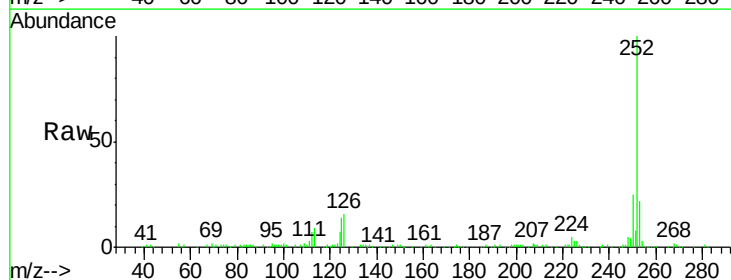
Instrument :  
BNA\_F  
ClientSampleId :

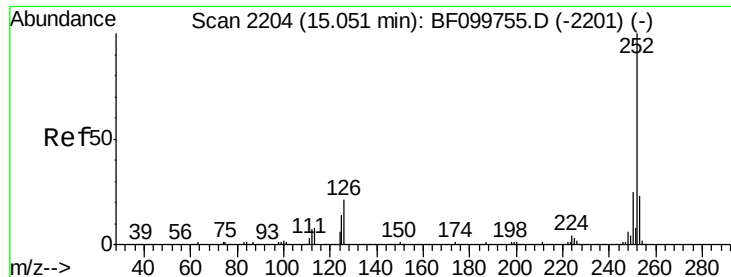
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 19.2  | 28.8  |
| 265     | 21.4  | 17.5  | 26.3  |



#87  
Benzo(b)fluoranthene  
Concen: 20.50 ng  
RT: 15.03 min Scan# 2201  
Delta R.T. 0.00 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.0  | 25.6  |
| 125     | 14.5  | 9.0   | 13.6  |

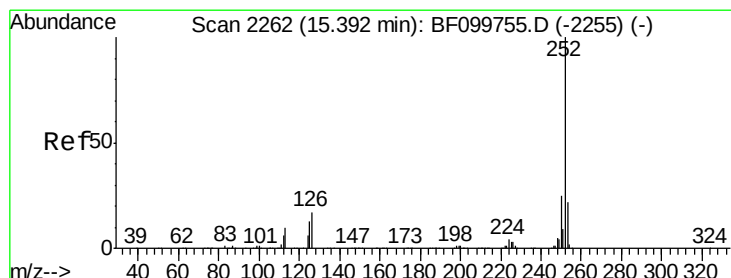
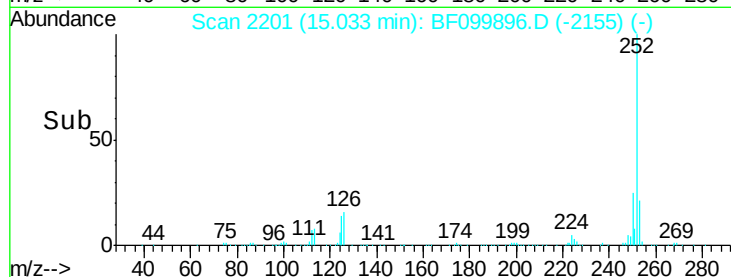
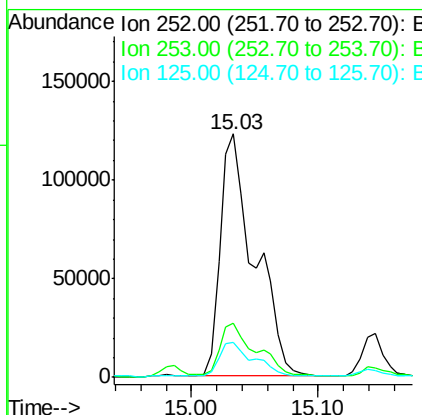
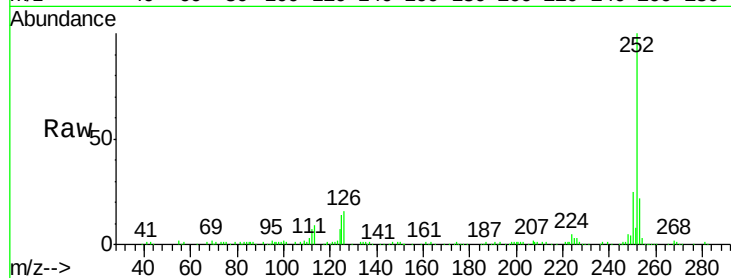




#88  
Benzo(k)fluoranthene  
Concen: 21.74 ng  
RT: 15.03 min Scan# 2201  
Delta R.T. -0.03 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

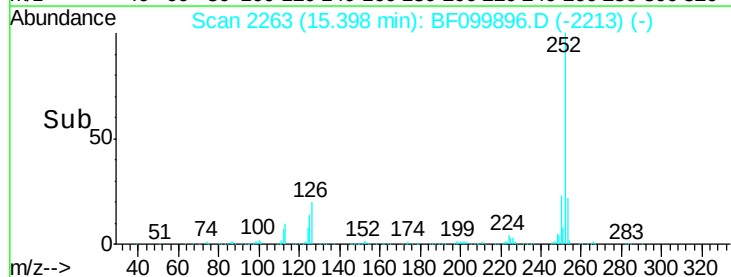
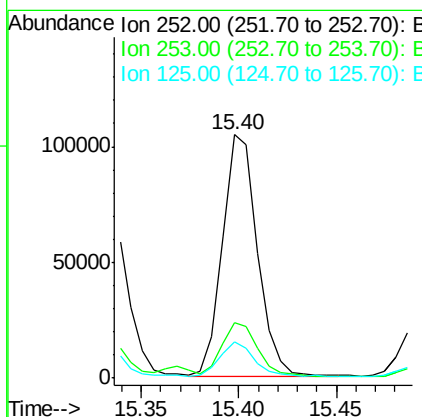
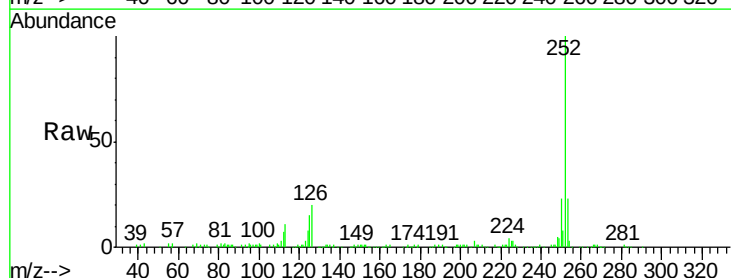
Instrument :  
BNA\_F  
ClientSampleId :

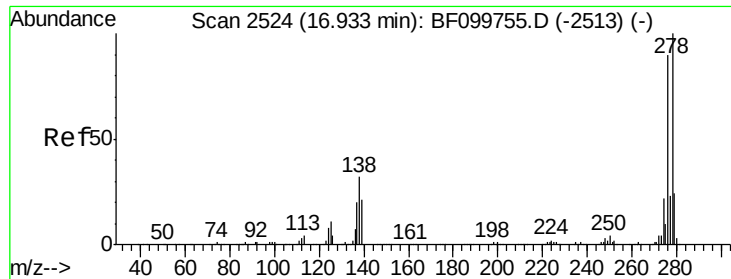
Tot Ion:252 Resp: 231517  
Ion Ratio Lower Upper  
252 100  
253 22.0 17.9 26.9  
125 14.5 10.2 15.2



#89  
Benzo(a)pyrene  
Concen: 12.90 ng  
RT: 15.40 min Scan# 2263  
Delta R.T. -0.01 min  
Lab File: BF099896.D  
Acq: 28 Oct 2017 1:04

Tgt Ion:252 Resp: 130914  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.1 25.7  
125 14.8 9.8 14.6#





#90

Dibenzo(a,h)anthracene

Concen: 2.22 ng

RT: 17.12 min Scan# 2556

Delta R.T. 0.17 min

Lab File: BF099896.D

Acq: 28 Oct 2017 1:04

Instrument :

BNA\_F

ClientSampled :

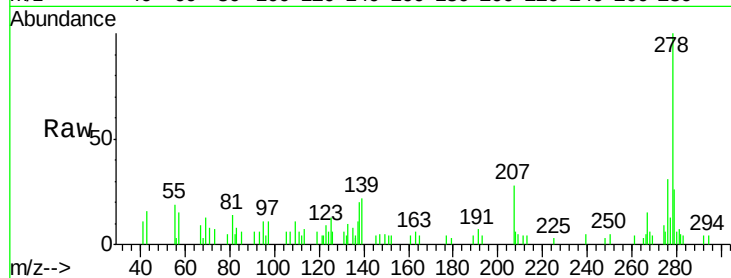
Tot Ion:278 Resp: 20057

Ion Ratio Lower Upper

278 100

139 21.6 15.9 23.9

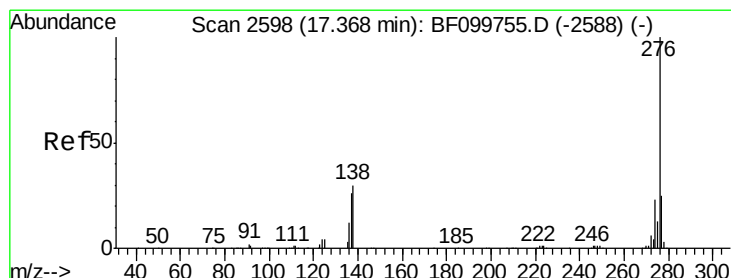
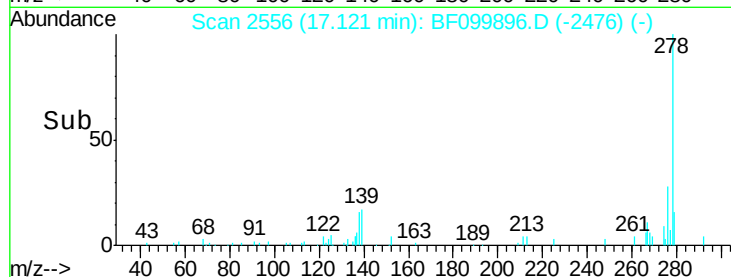
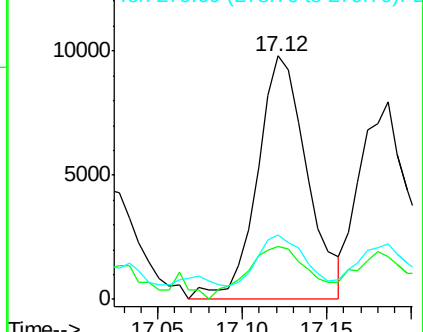
279 26.4 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 8.53 ng

RT: 17.40 min Scan# 2603

Delta R.T. 0.00 min

Lab File: BF099896.D

Acq: 28 Oct 2017 1:04

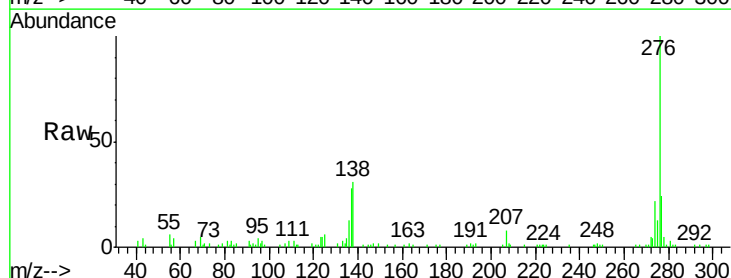
Tgt Ion:276 Resp: 75240

Ion Ratio Lower Upper

276 100

277 24.4 17.9 26.9

138 31.4 21.8 32.8



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

