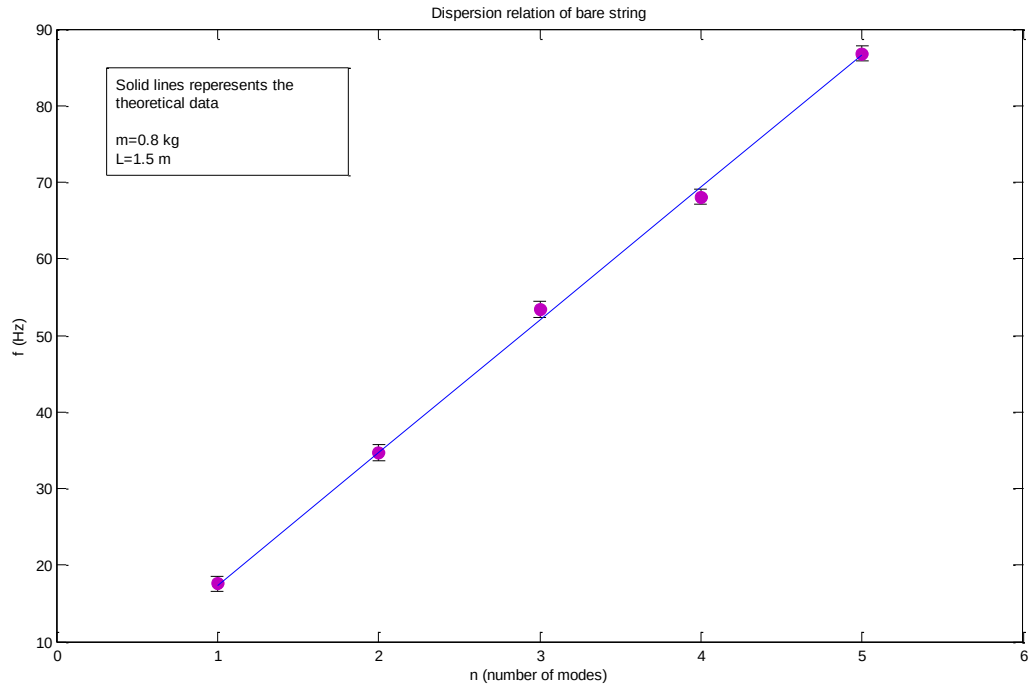
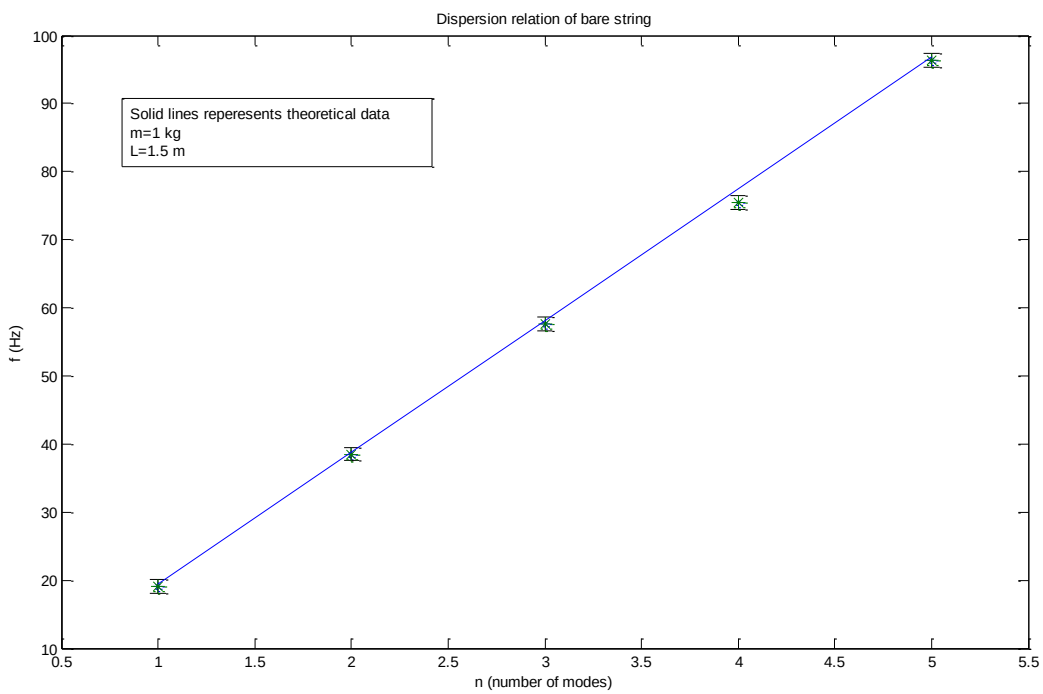
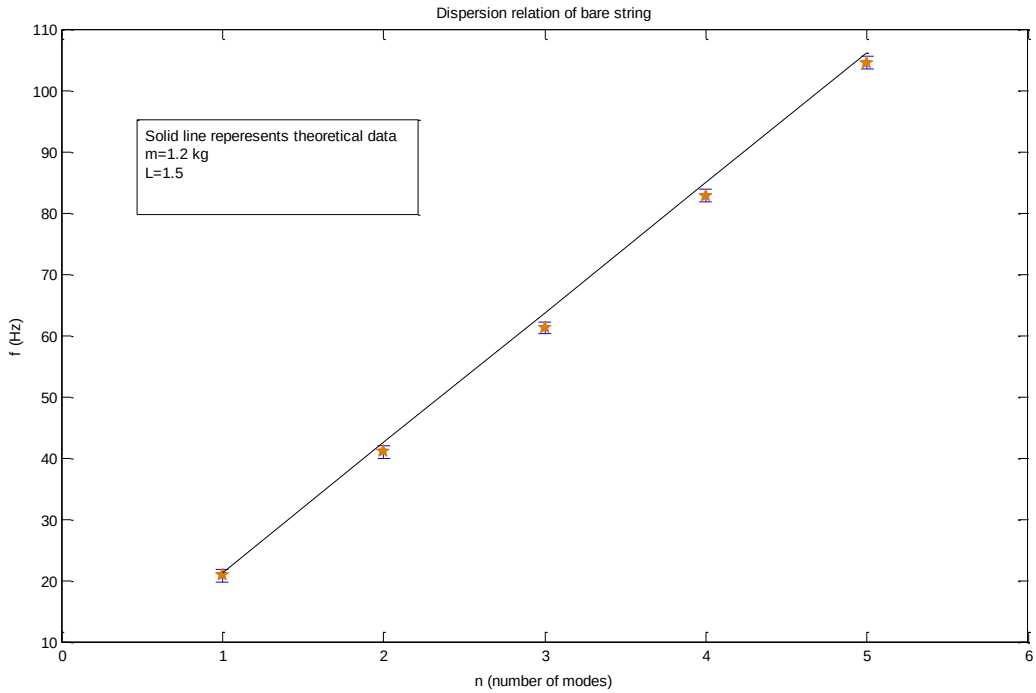
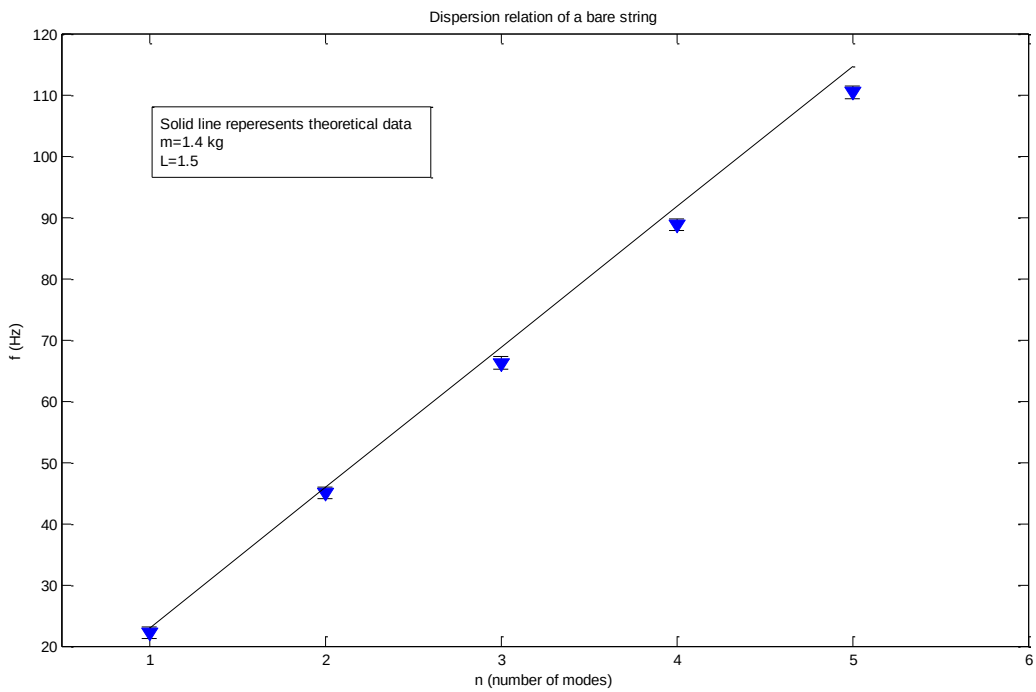
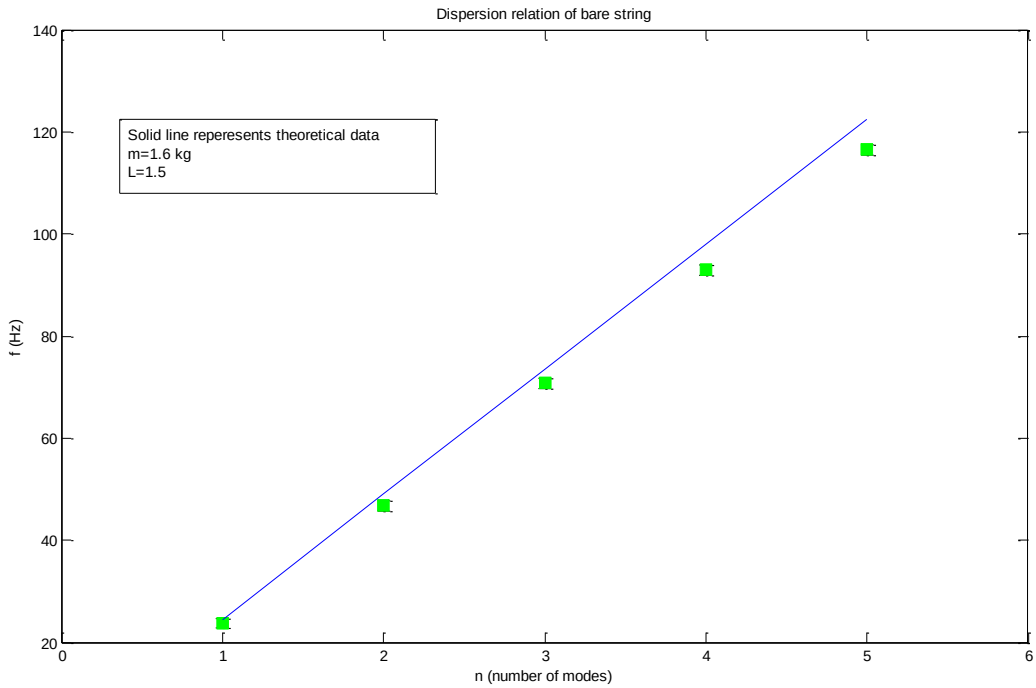
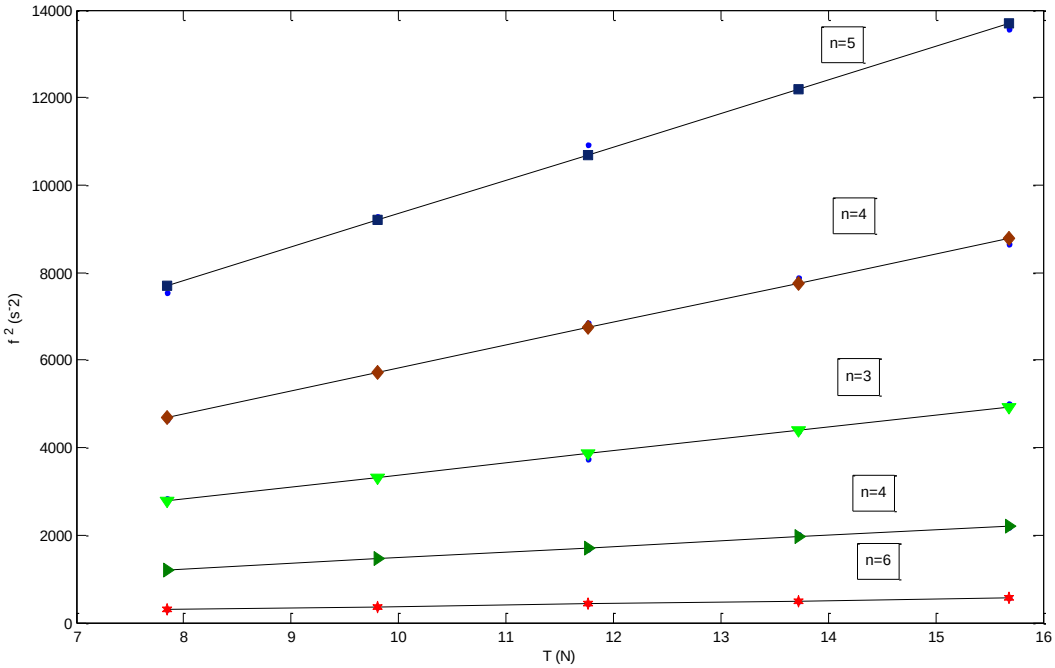

Dispersion relation of bare string
Solid lines reperesents the theoretical data
m=0.8 kg
L=1.5 m
f (Hz)
n (number of modes)
90
80
70
60
50
40
30
20
10
0
1
2
3
4
5
6


Dispersion relation of bare string
Solid lines reperesents theoretical data
m=1 kg
L=1.5 m
f (Hz)
n (number of modes)
100
90
80
70
60
50
40
30
20
10
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5


Dispersion relation of bare string
Solid line reperesents theoretical data
m=1.2 kg
L=1.5
f (Hz)
n (number of modes)
110
100
90
80
70
60
50
40
30
20
10
0
1
2
3
4
5
6


Dispersion relation of a bare string
Solid line reperesents theoretical data
m=1.4 kg
L=1.5
f (Hz)
n (number of modes)
120
110
100
90
80
70
60
50
40
30
20
1
2
3
4
5
6


Dispersion relation of bare string
Solid line reperesents theoretical data
m=1.6 kg
L=1.5
f (Hz)
n (number of modes)
140
120
100
80
60
40
20
0
1
2
3
4
5
6


14000
12000
10000
8000
6000
4000
2000
0
7
8
9
10
11
12
13
14
15
16
T (N)
f 2 (s-2)
n=5
n=4
n=3
n=4
n=6