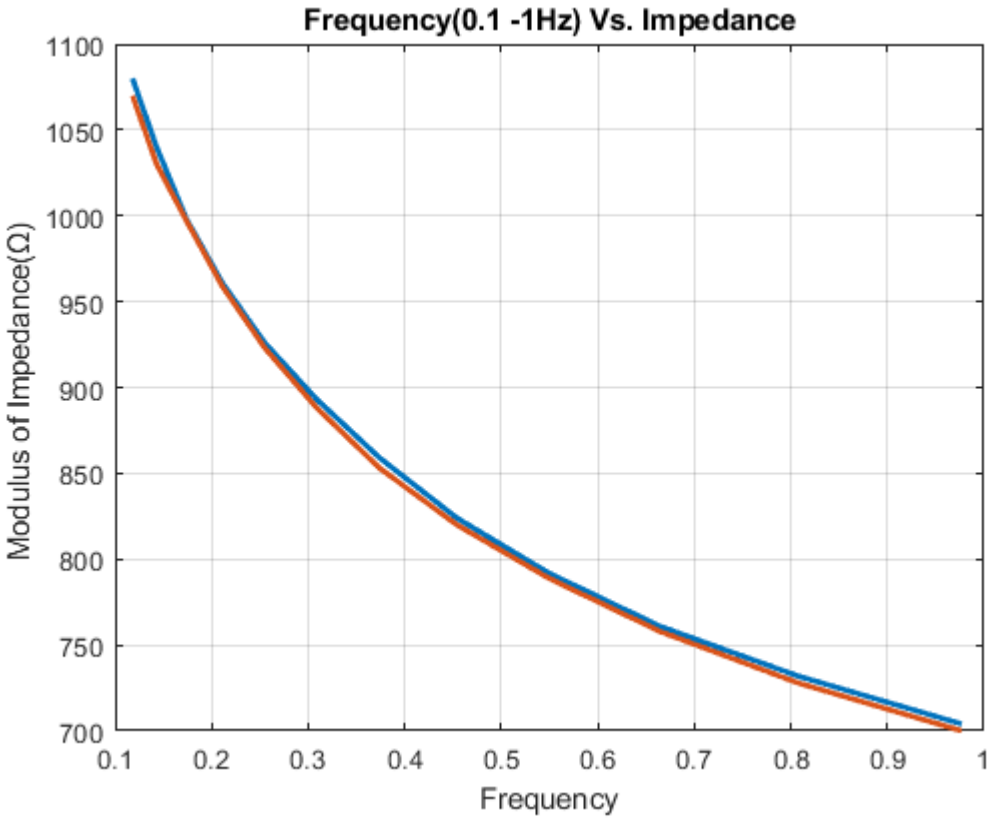
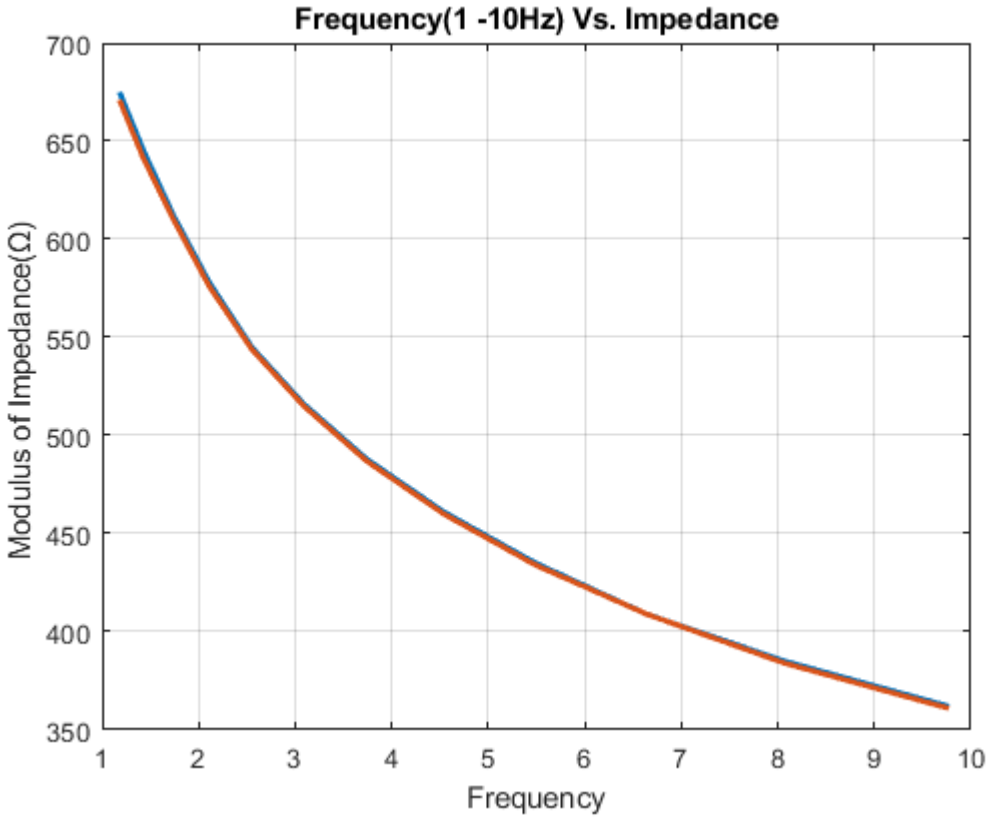
```
clc
clear all
% Load EIS data(0.1 -1 Hz)
data = load('221020MH_CH1_EIS_SE_B1(4_2w)45.csv');
data_1 = load('221020MH_CH6_EIS_SE_B1(2_1w)45.csv');
data_2 = load('221020MH_CH12_EIS_ETB45.csv');
% Extract Frequency and Modulus of Impedance
frequency = data(:, 1);
impedance = data(:, 2);
impedance_1 = data_1(:, 2);
impedance_2 = data_1(:, 2);

figure(1)
plot(frequency,impedance,frequency, impedance_1,'LineWidth',2)
xlabel('Frequency');
ylabel('Modulus of Impedance(Ω) ');
grid;
title('Frequency(0.1 -1Hz) Vs. Impedance');
```

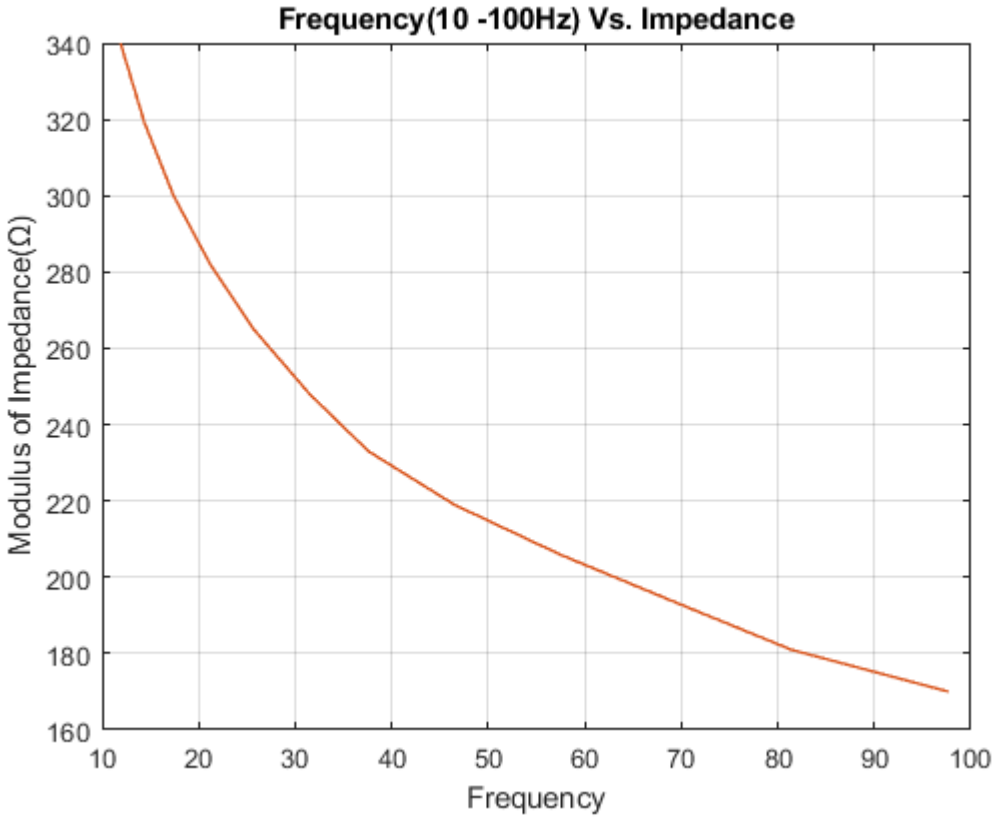



```
% Load EIS data(1 -10 Hz)
data = load('221020MH_CH1_EIS_SE_B1(4_2w)_10hz.csv');
data_1 = load('221020MH_CH6_EIS_SE_B1(2_1w)_10hz.csv');
data_2 = load('221020MH_CH12_EIS_ETB_10Hz.csv');
% Extract Frequency and Modulus of Impedance
frequency = data(:, 1);
impedance = data(:, 2);
impedance_1 = data_1(:, 2);
```

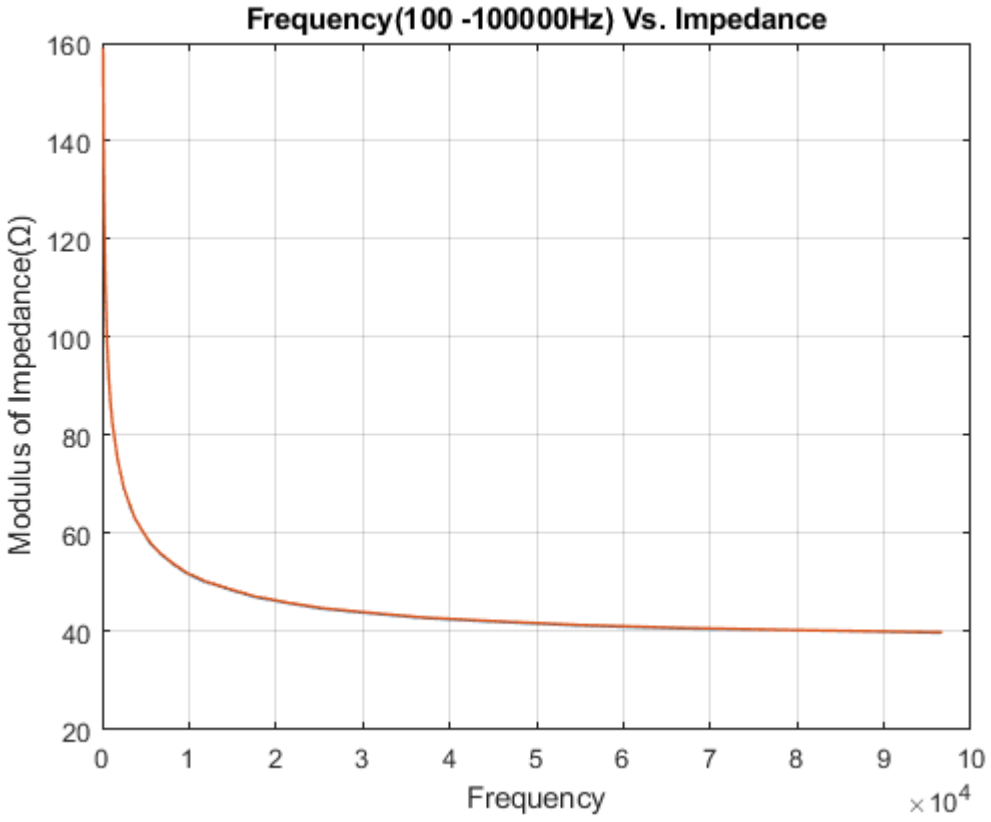
```
impedance_2 = data_1(:, 2);

figure(2)
plot(frequency,impedance,frequency, impedance_1,'LineWidth',2)
xlabel('Frequency');
ylabel('Modulus of Impedance(Ω) ');
grid;
title('Frequency(1 -10Hz) Vs. Impedance');
```




```
% Load EIS data(10 -100 Hz)
data = load('221020MH_CH1_EIS_SE_B1(4_2w)_100Hz.csv');
data_1 = load('221020MH_CH6_EIS_SE_B1(2_1w)_100Hz.csv');
data_2 = load('221020MH_CH12_EIS_ETB_100Hz.csv');
% Extract Frequency and Modulus of Impedance
frequency = data(:, 1);
impedance = data(:, 2);
impedance_1 = data_1(:, 2);
impedance_2 = data_1(:, 2);

figure(3)
plot(frequency,impedance,frequency, impedance_1,'LineWidth',1)
xlabel('Frequency');
ylabel('Modulus of Impedance(Ω)');
grid;
title('Frequency(10 -100Hz) Vs. Impedance');
```




```
% Load EIS data(100 -100000 Hz)
data = load('221020MH_CH1_EIS_SE_B1(4_2w)10e4Hz.csv');
data_1 = load('221020MH_CH6_EIS_SE_B1(2_1w)10e4.csv');
data_2 = load('221020MH_CH12_EIS_ETB10e4.csv');
% Extract Frequency and Modulus of Impedance
frequency = data(:, 1);
impedance = data(:, 2);
impedance_1 = data_1(:, 2);
impedance_2 = data_1(:, 2);

figure(4)
plot(frequency,impedance,frequency, impedance_1,'LineWidth',1)
xlabel('Frequency');
ylabel('Modulus of Impedance(Ω)');
grid;
title('Frequency(100 -100000Hz) Vs. Impedance');
```


Frequency(100 -100000Hz) Vs. Impedance
Modulus of Impedance(Ω)
160
140
120
100
80
60
40
20
0
1
2
3
4
5
6
7
8
9
10
Frequency
×10^4