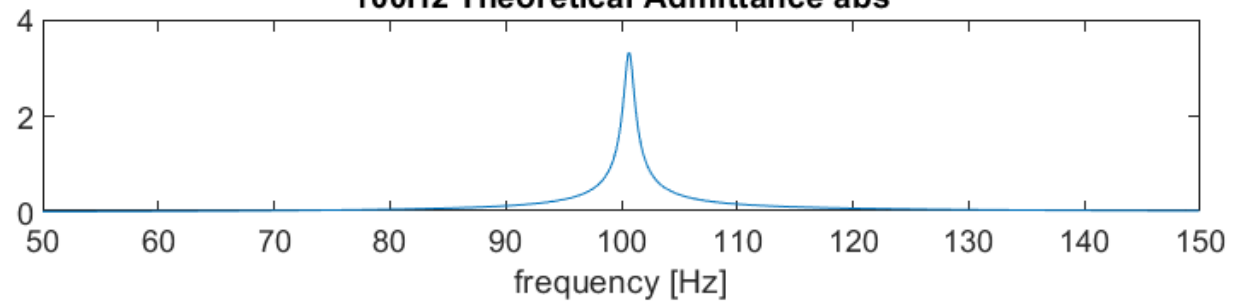
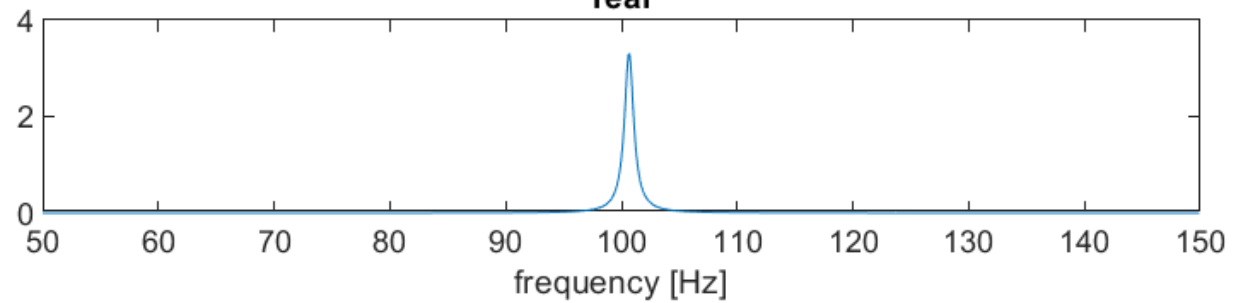


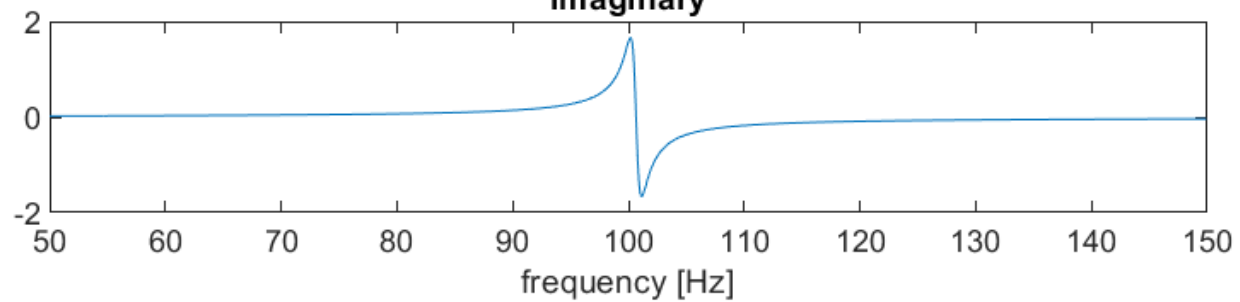
**100Hz Theoretical Admittance abs**

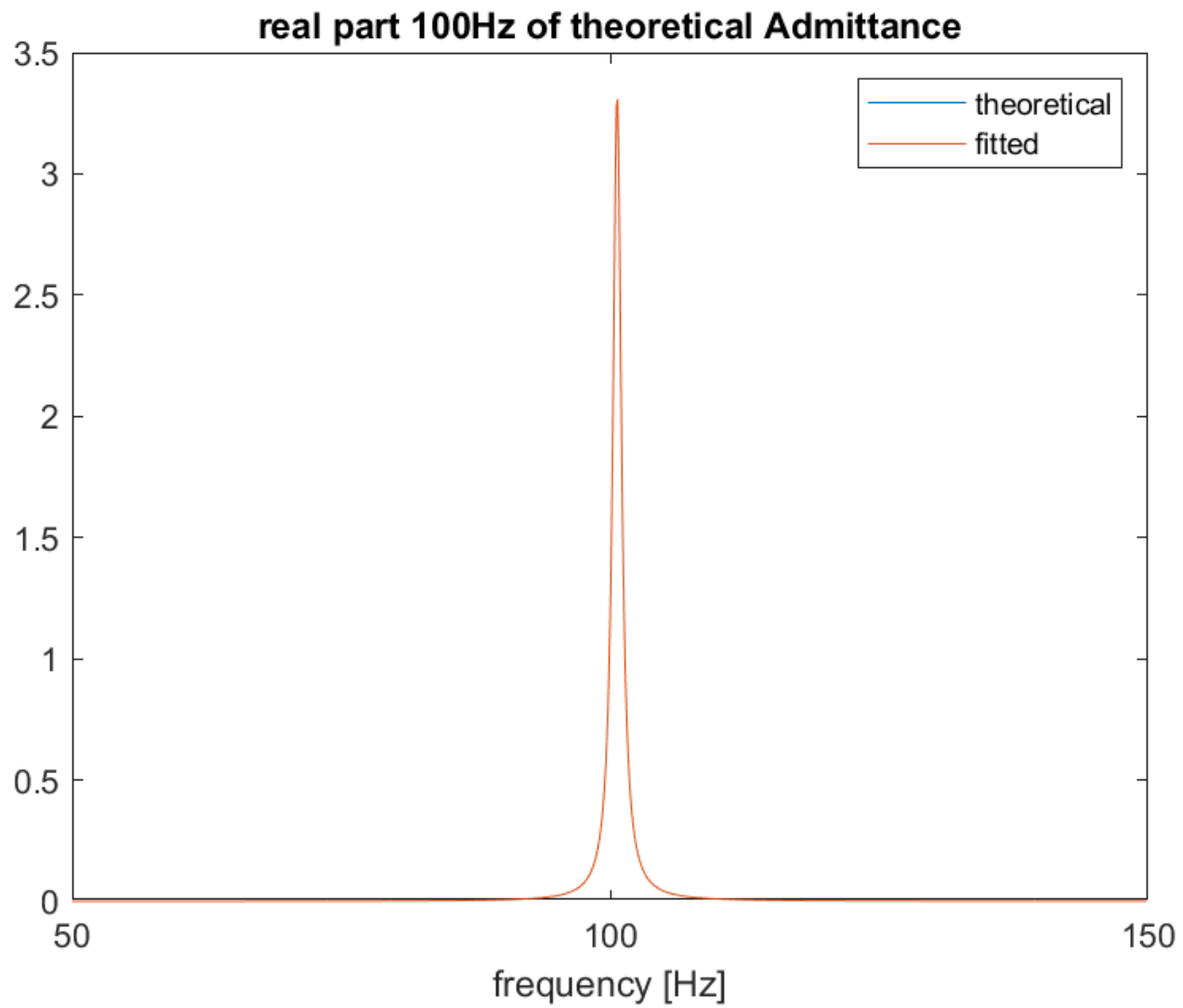


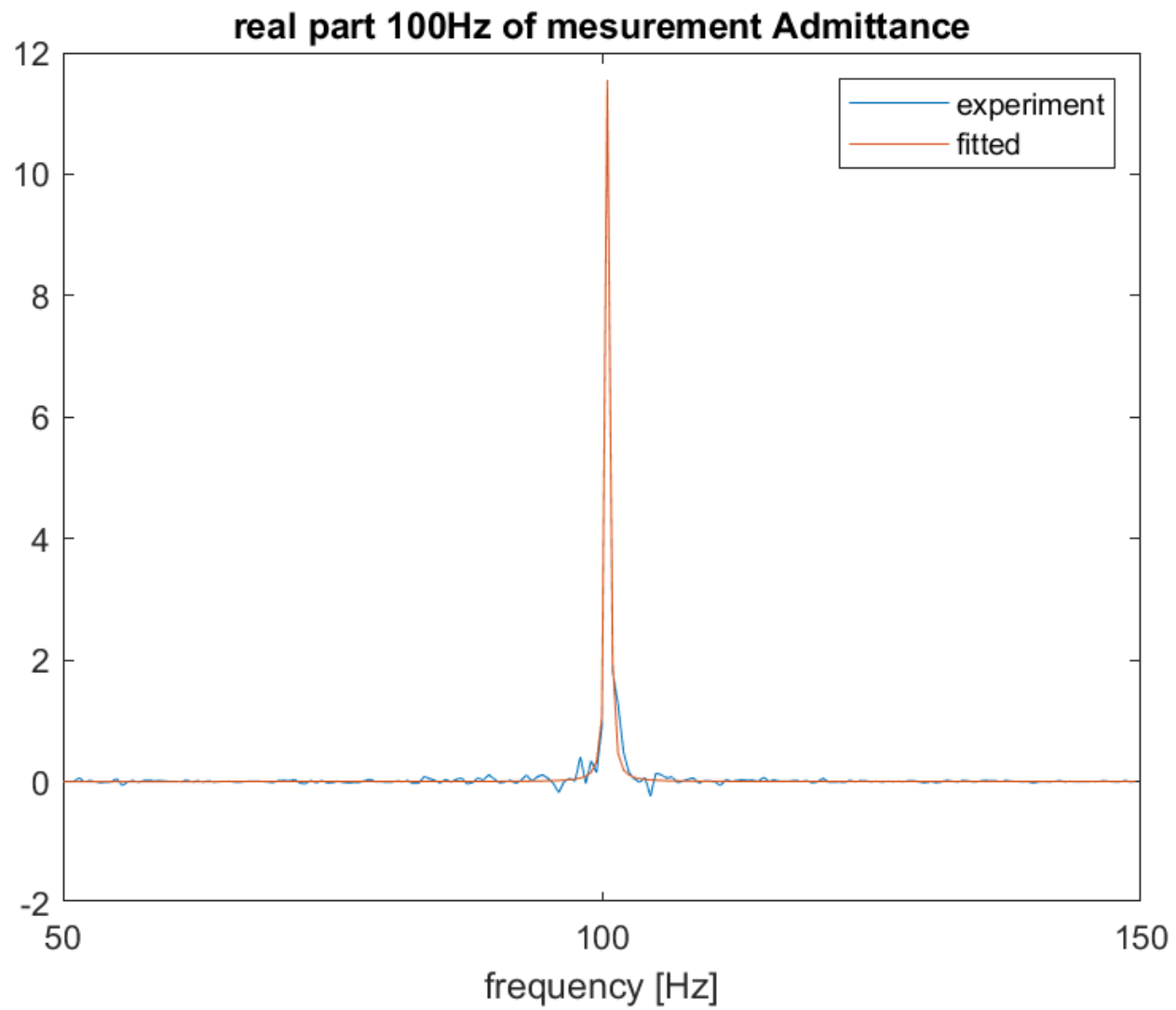
**real**



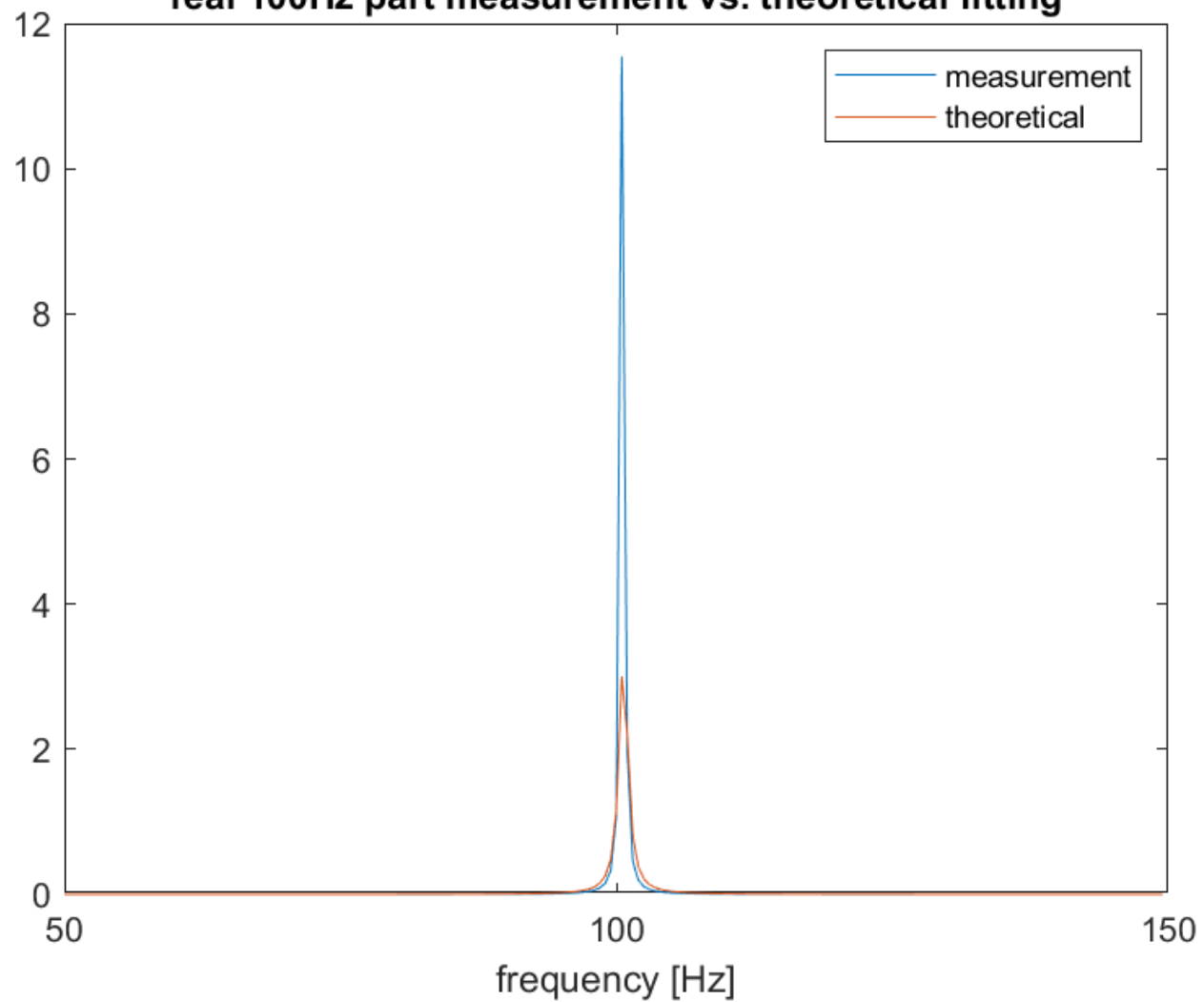
**imaginary**



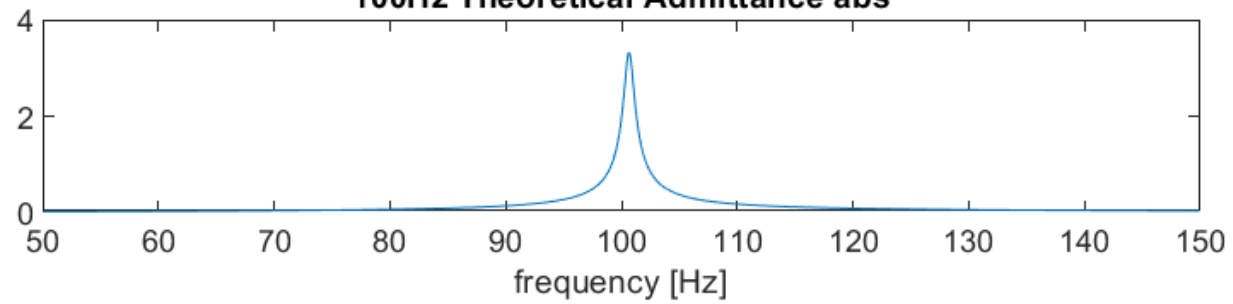




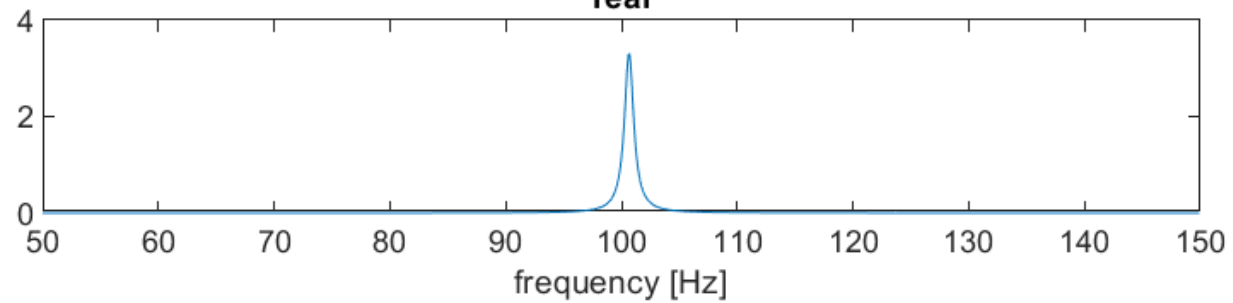
real 100Hz part measurement vs. theoretical fitting



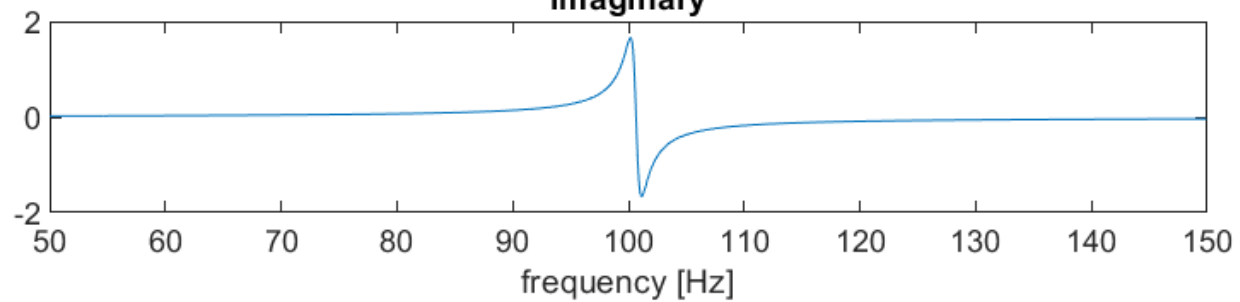
**100Hz Theoretical Admittance abs**



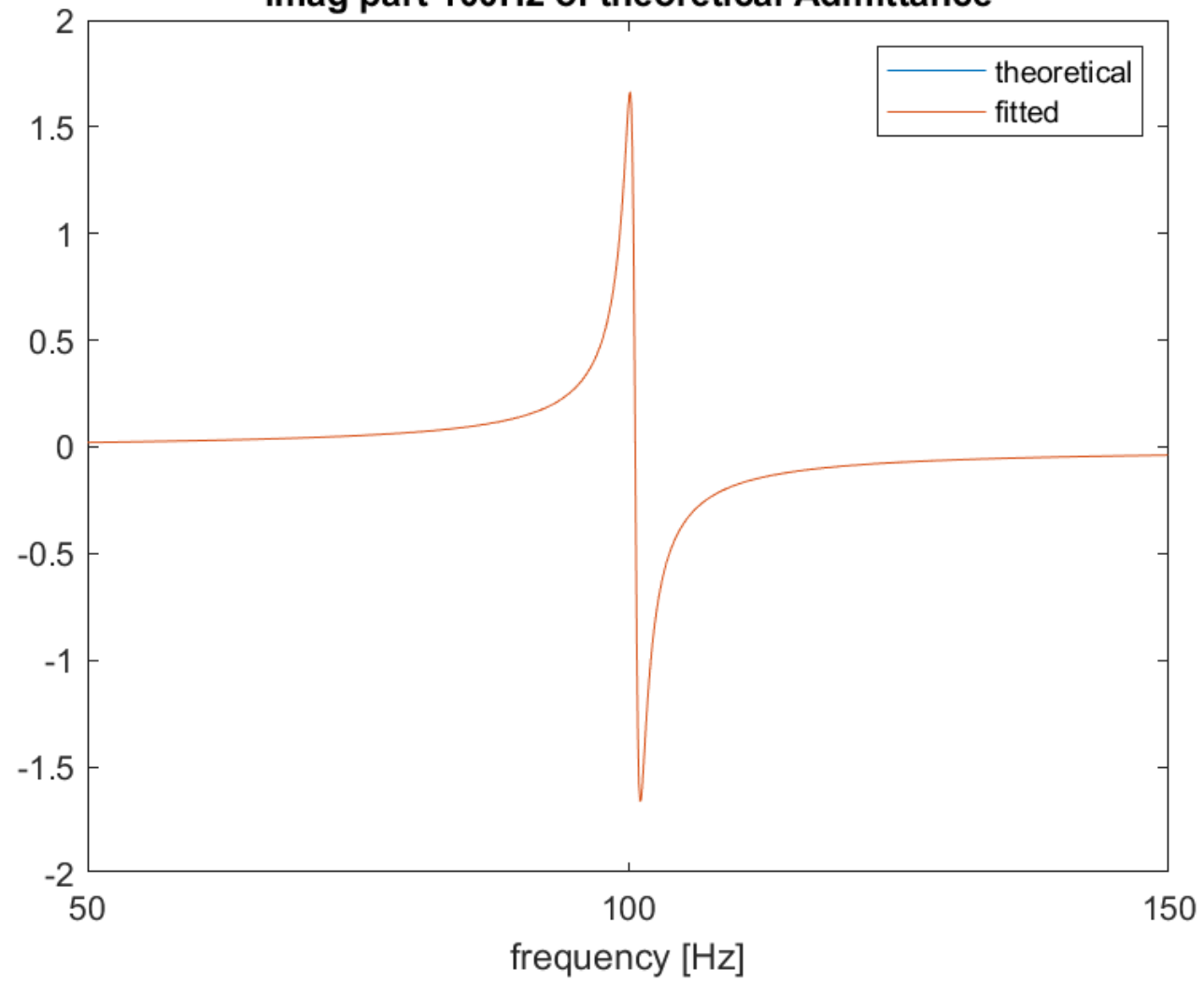
**real**



**imaginary**

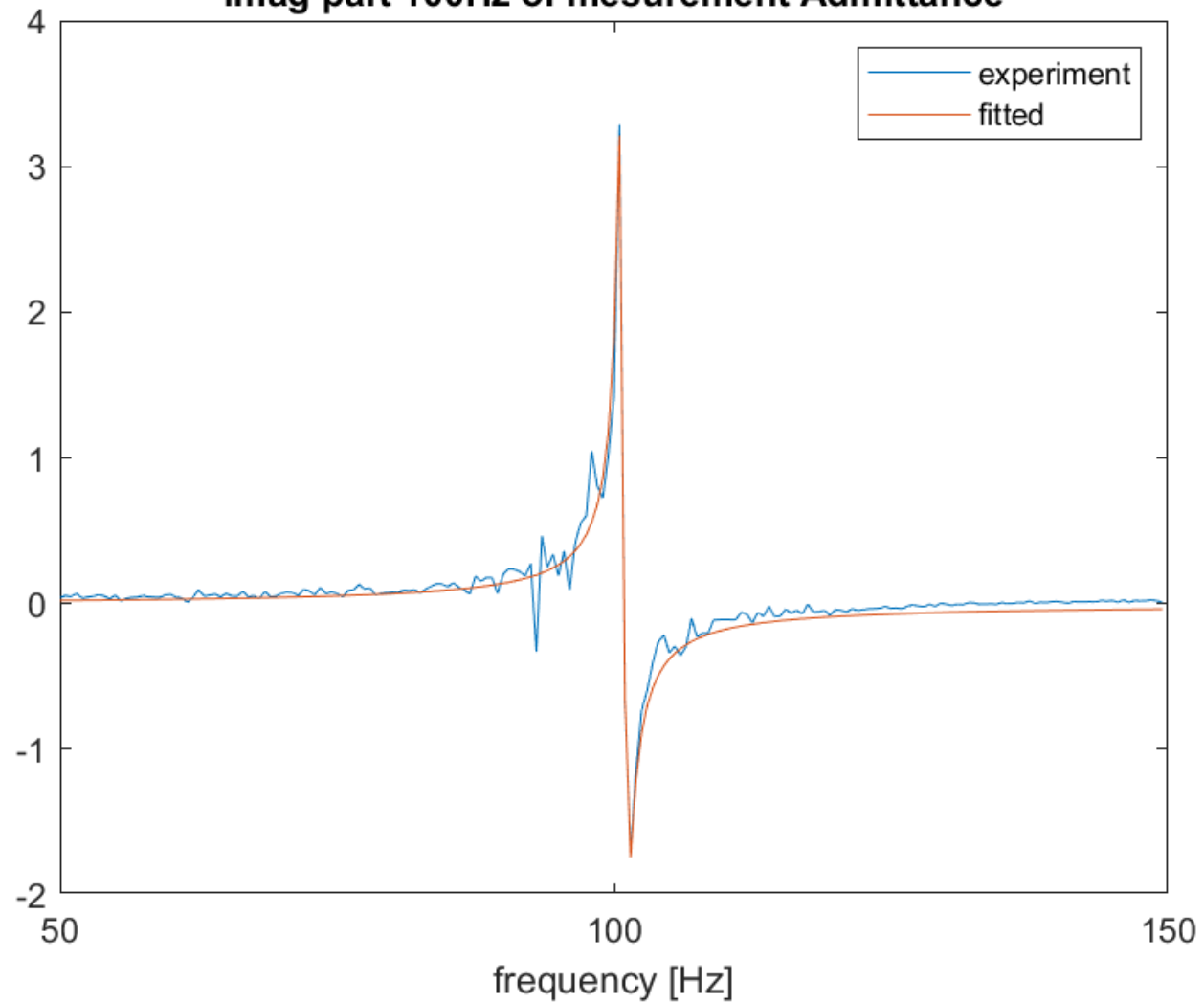


**imag part 100Hz of theoretical Admittance**

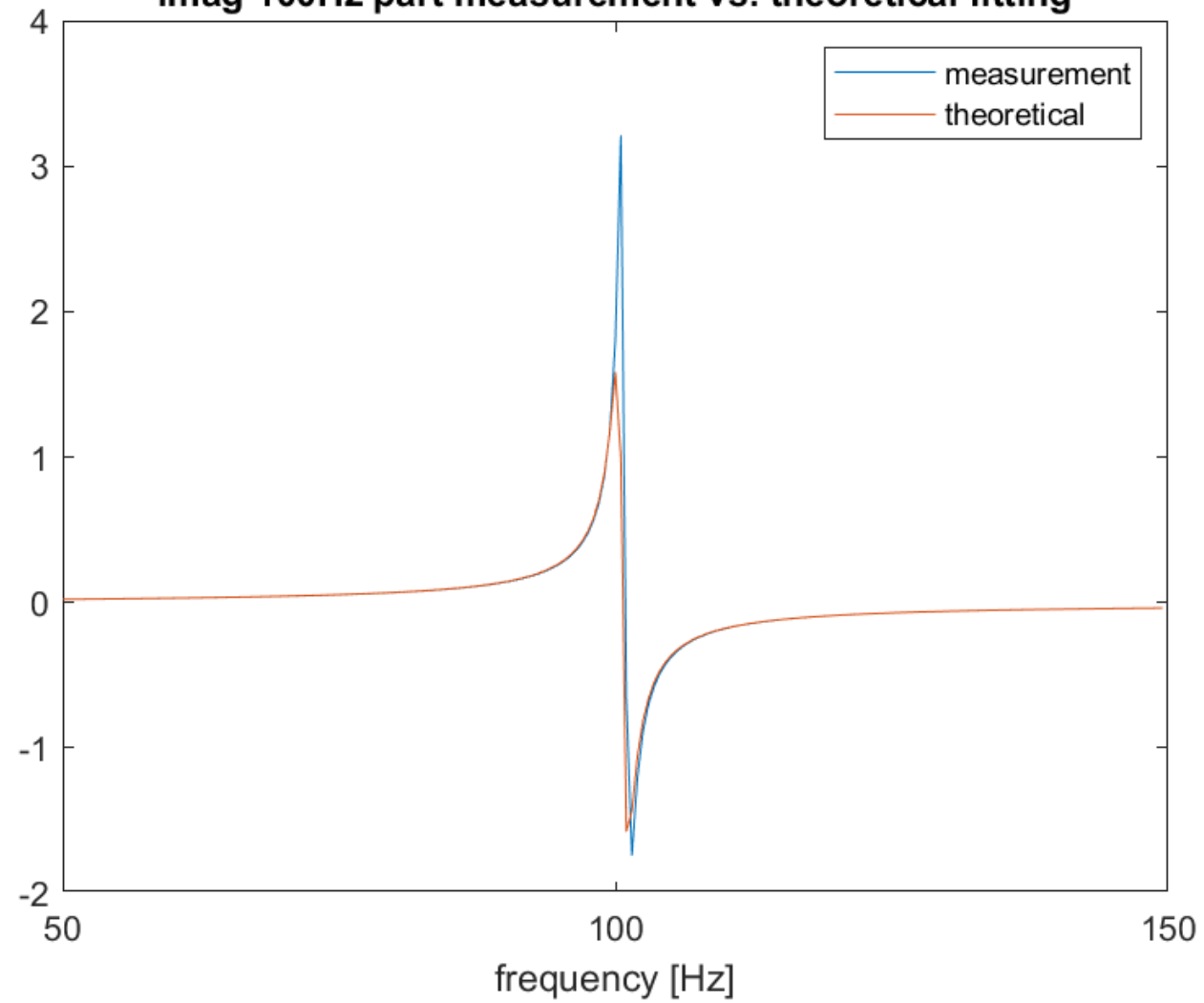


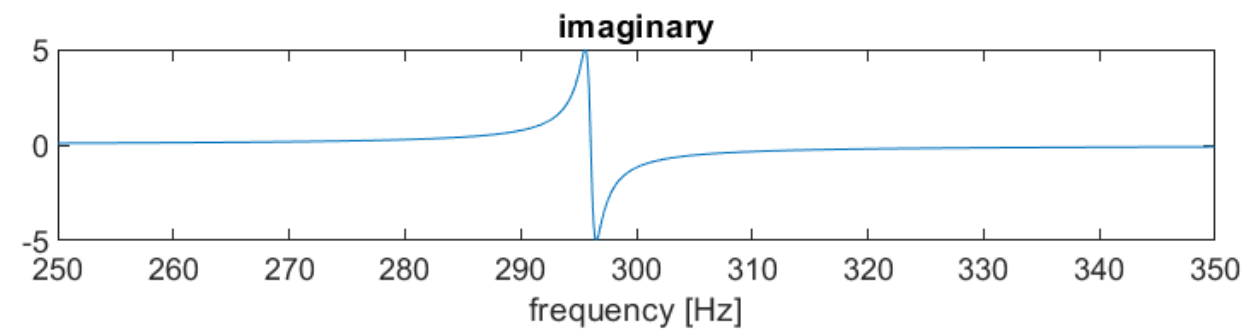
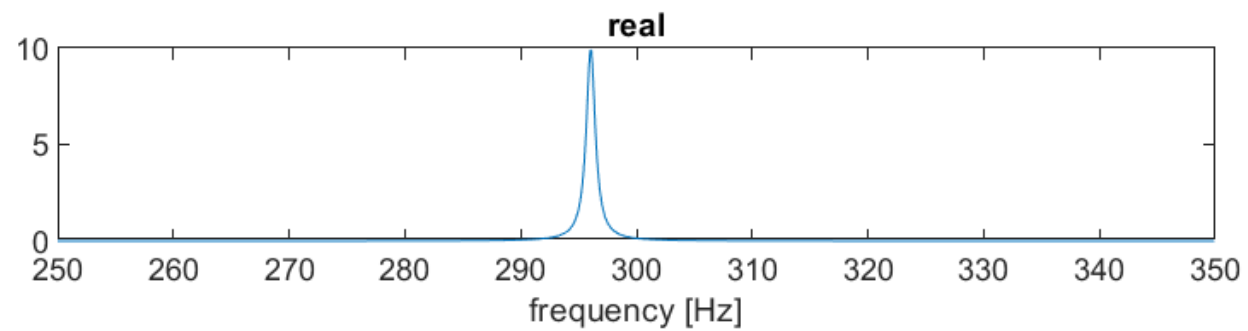
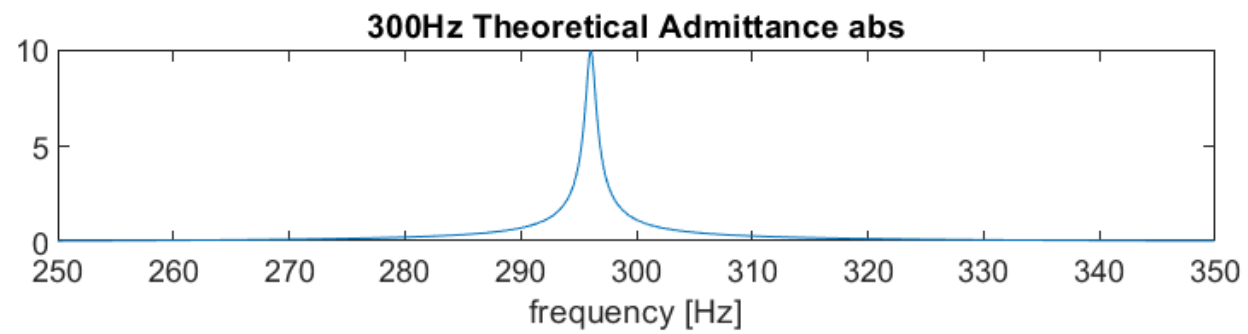


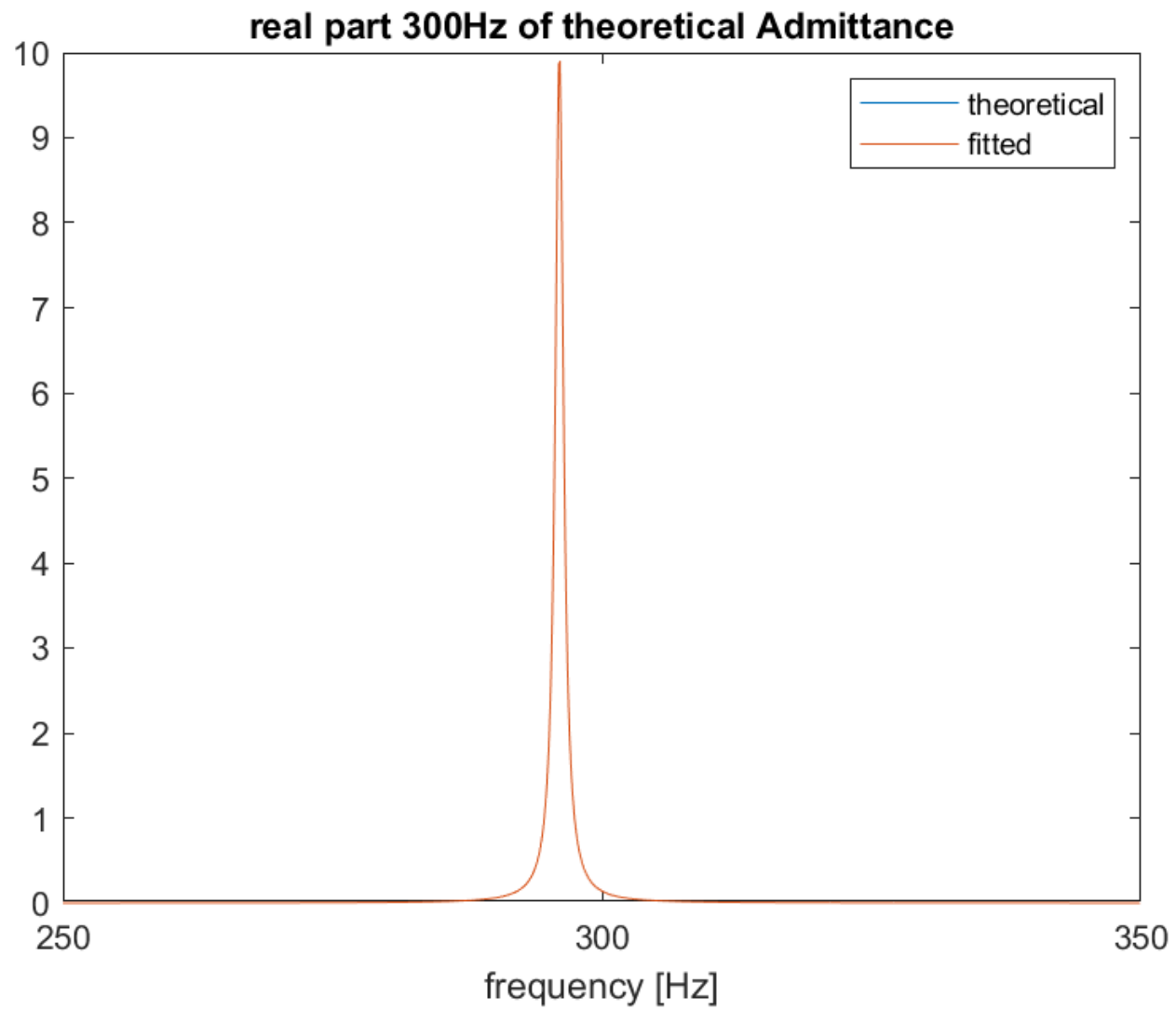
imag part 100Hz of measurement Admittance

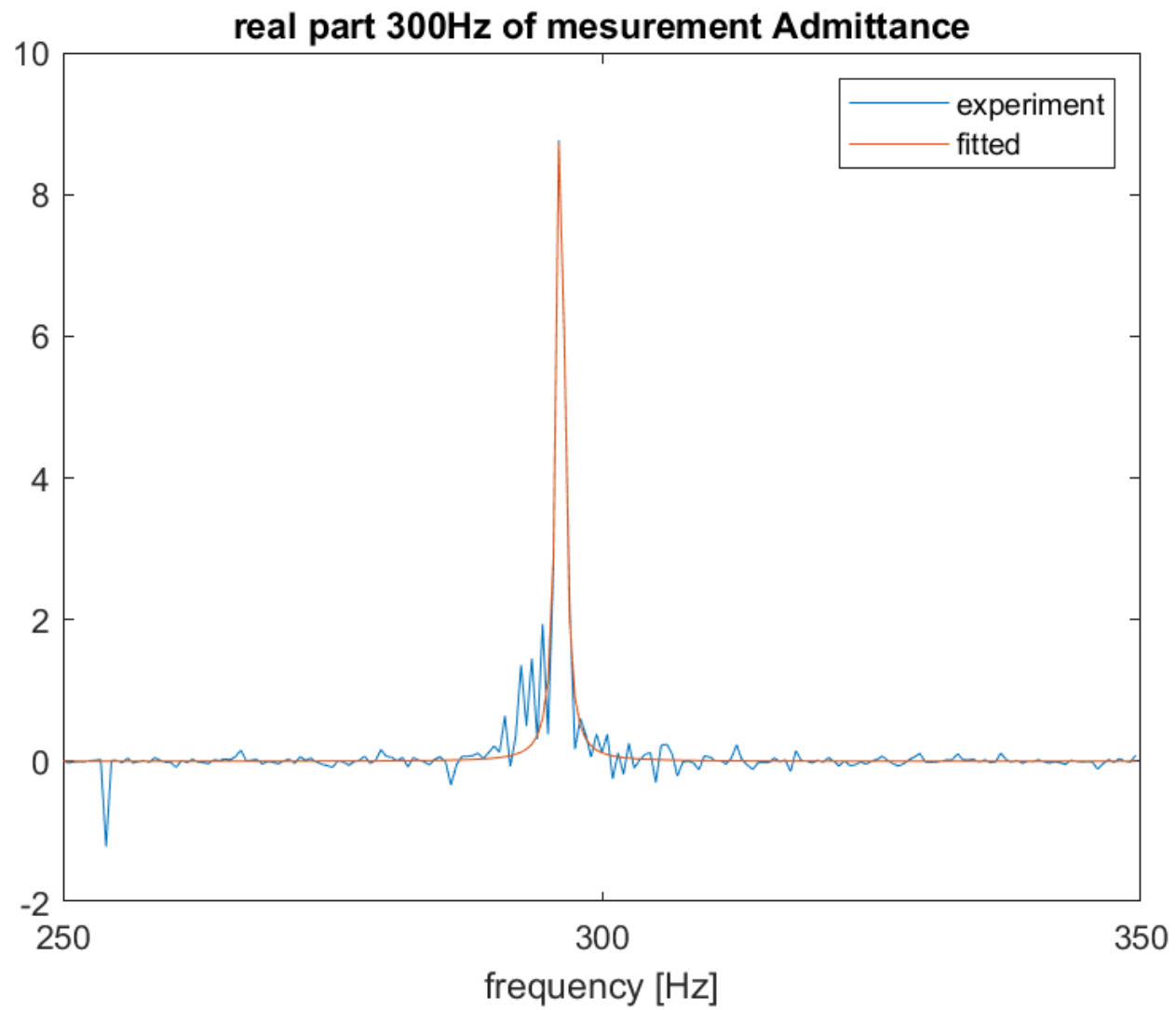


imag 100Hz part measurement vs. theoretical fitting

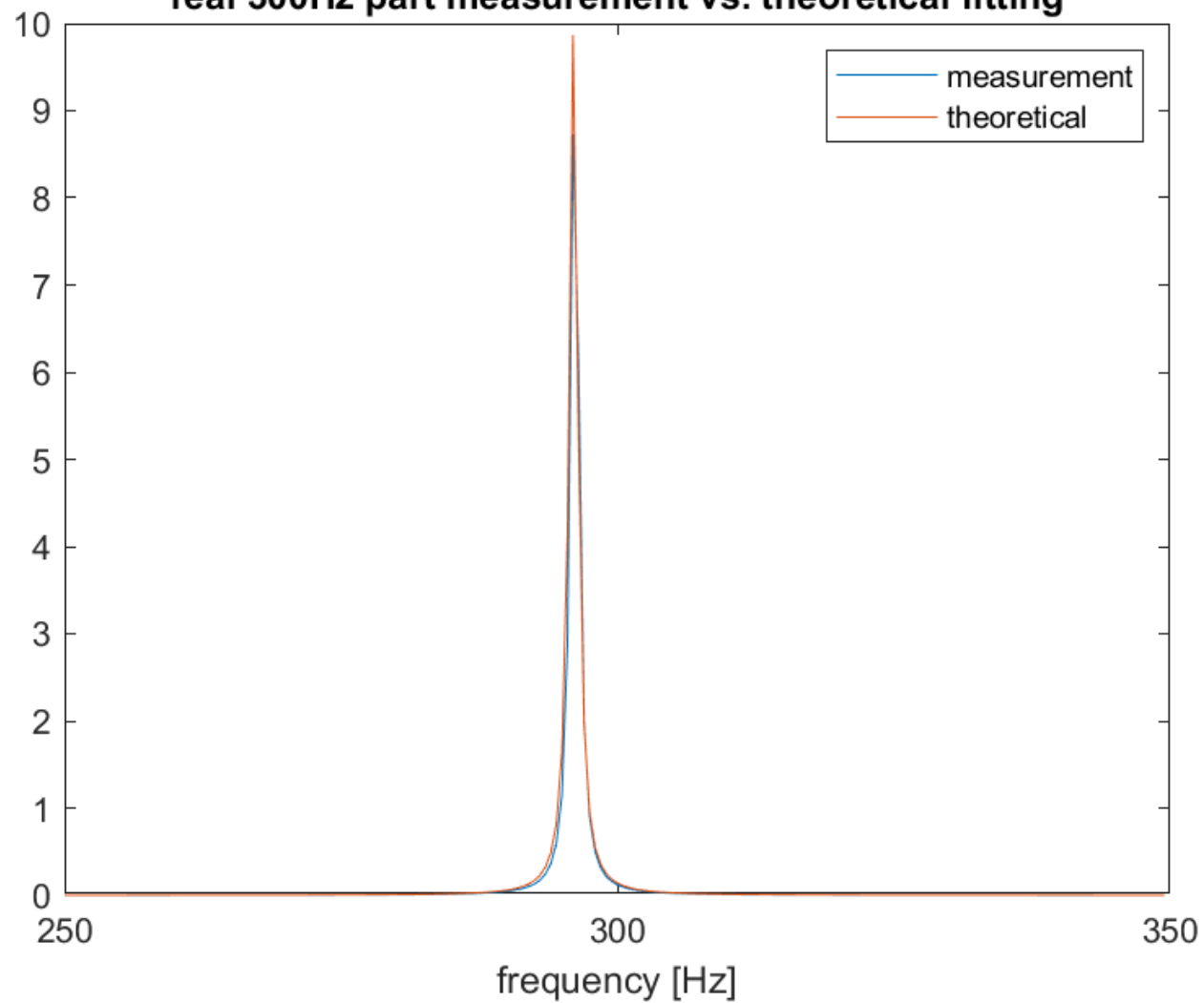


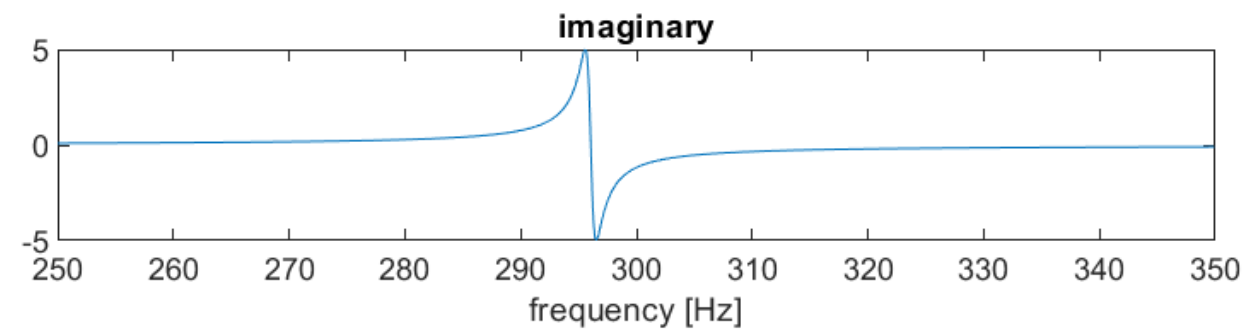
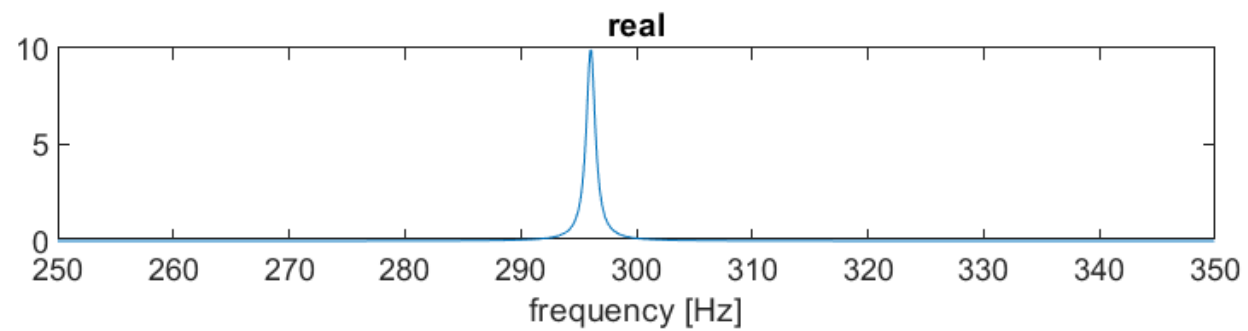
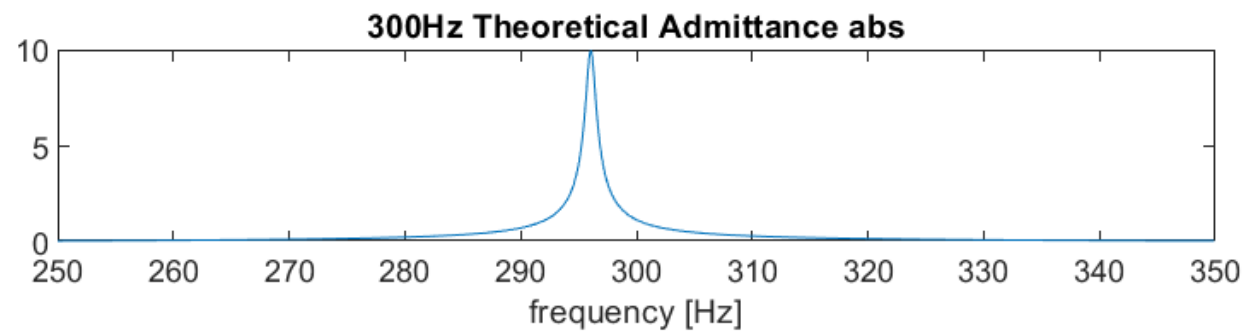




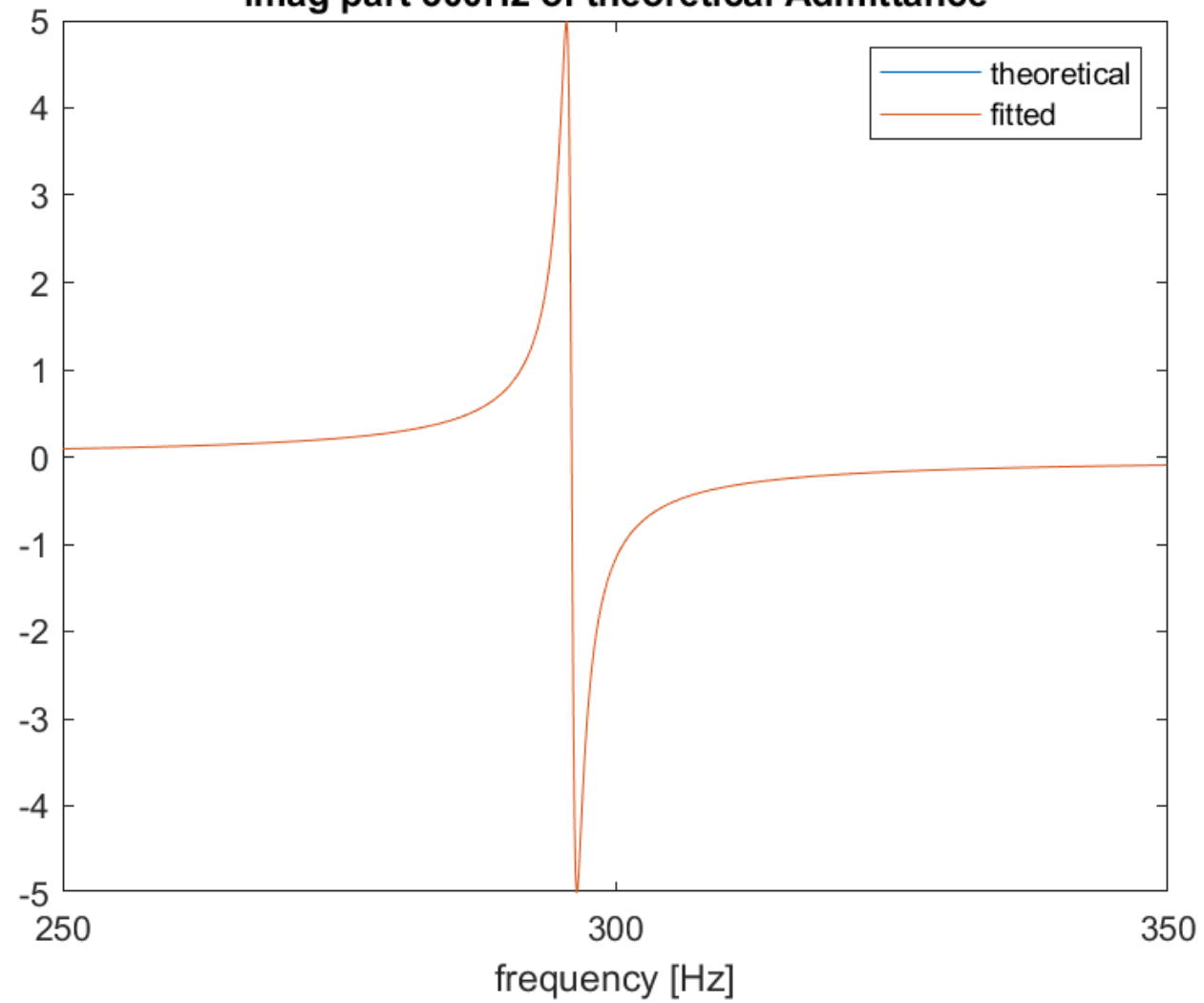


real 300Hz part measurement vs. theoretical fitting

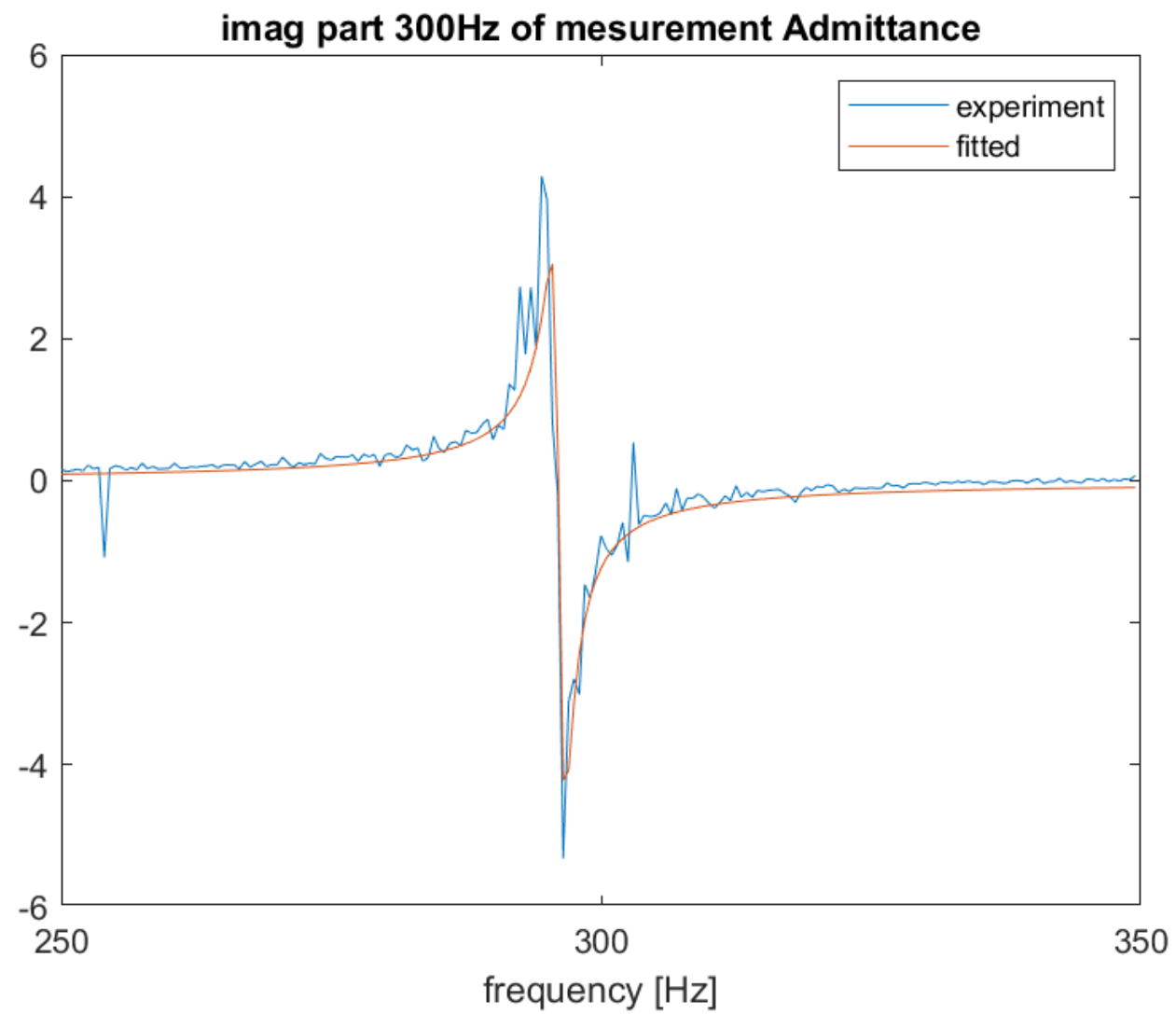




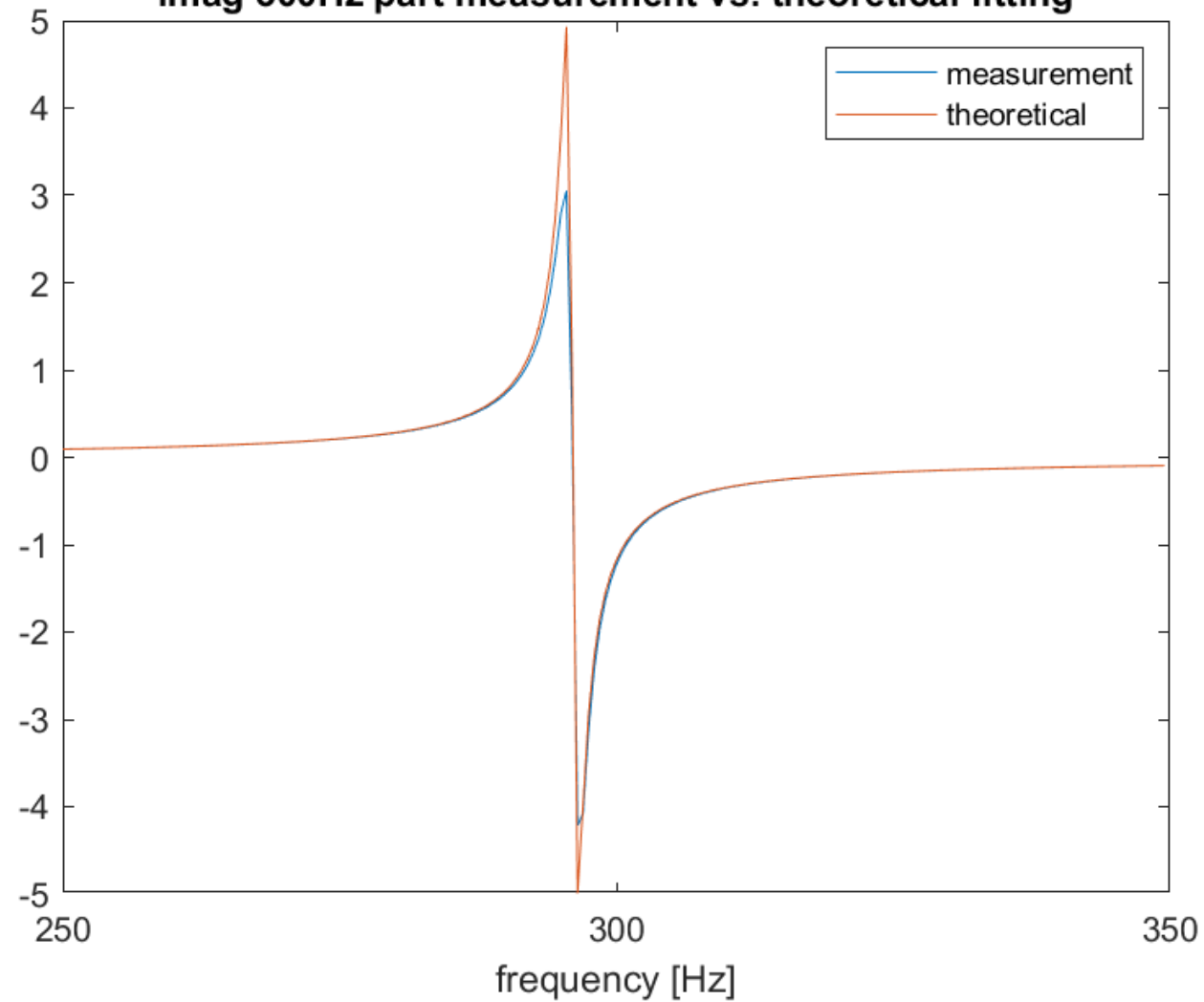
imag part 300Hz of theoretical Admittance



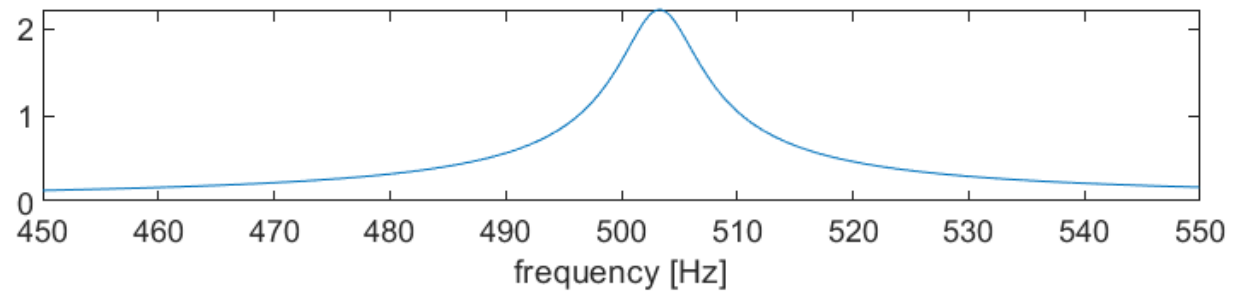




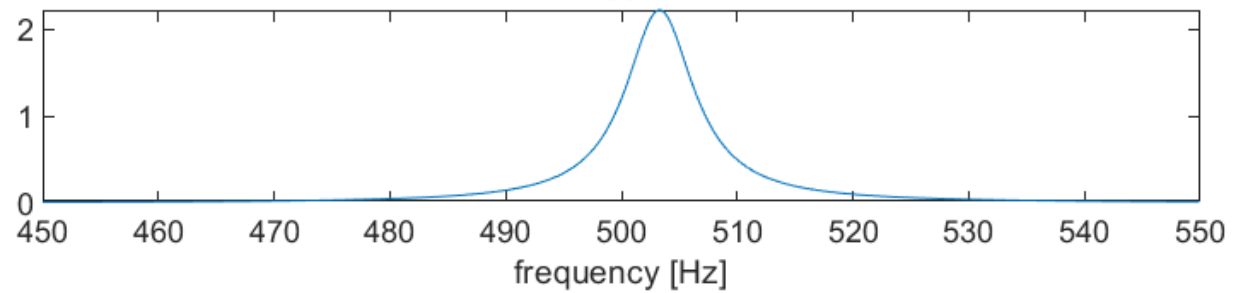
imag 300Hz part measurement vs. theoretical fitting



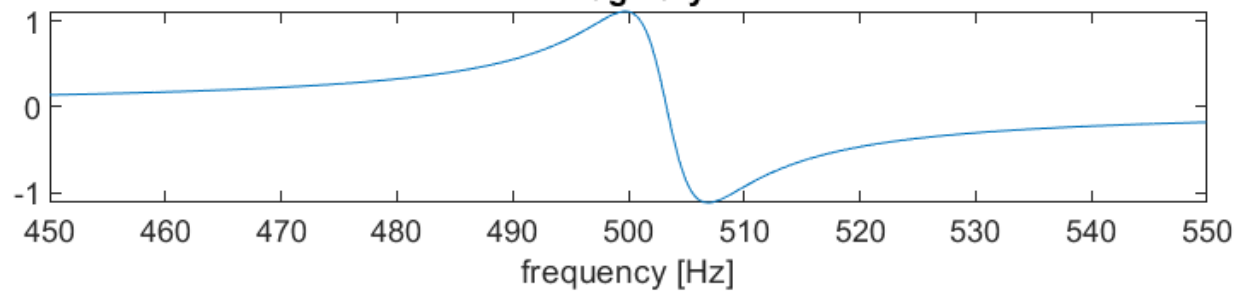
**500Hz Theoretical Admittance abs**

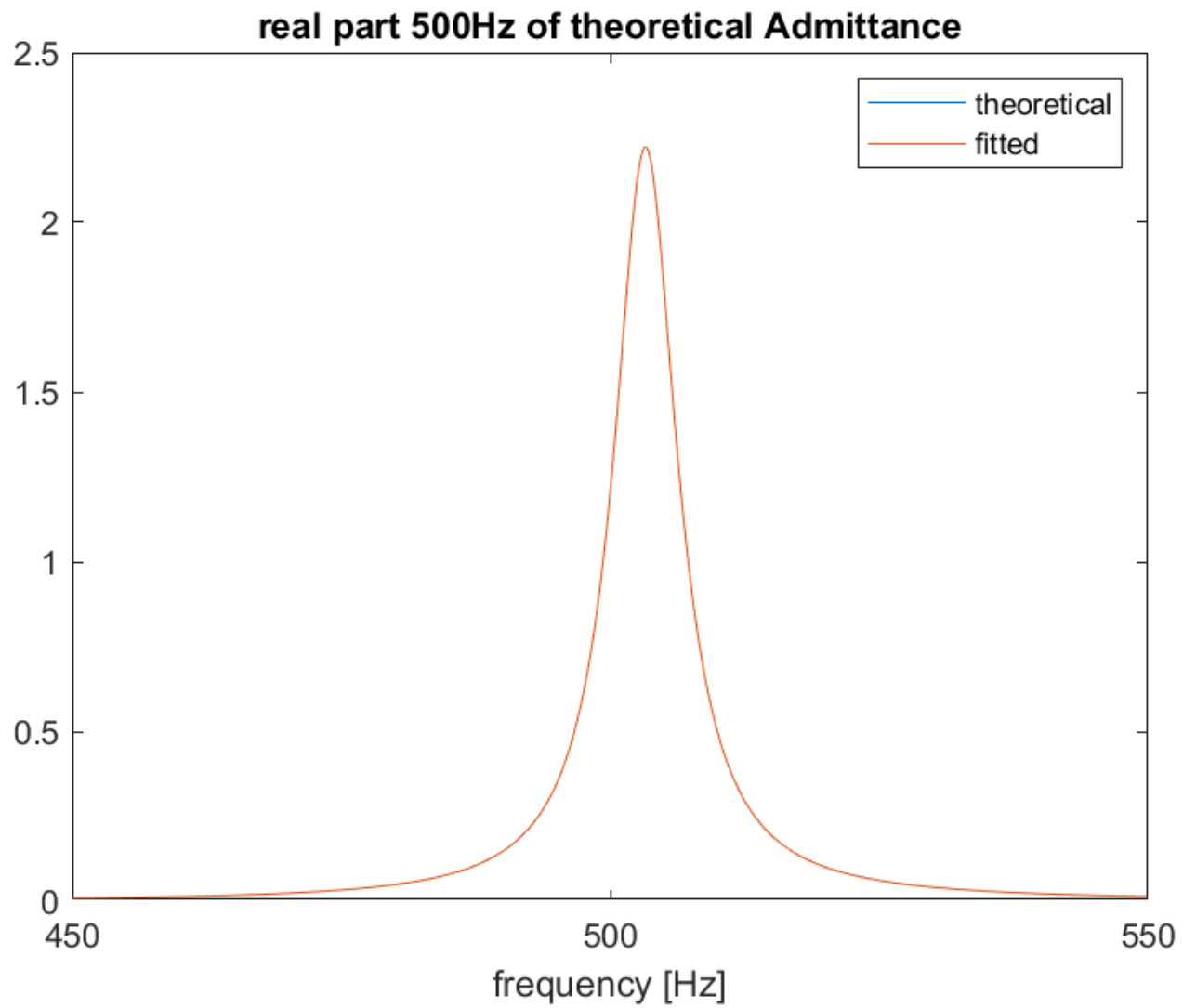


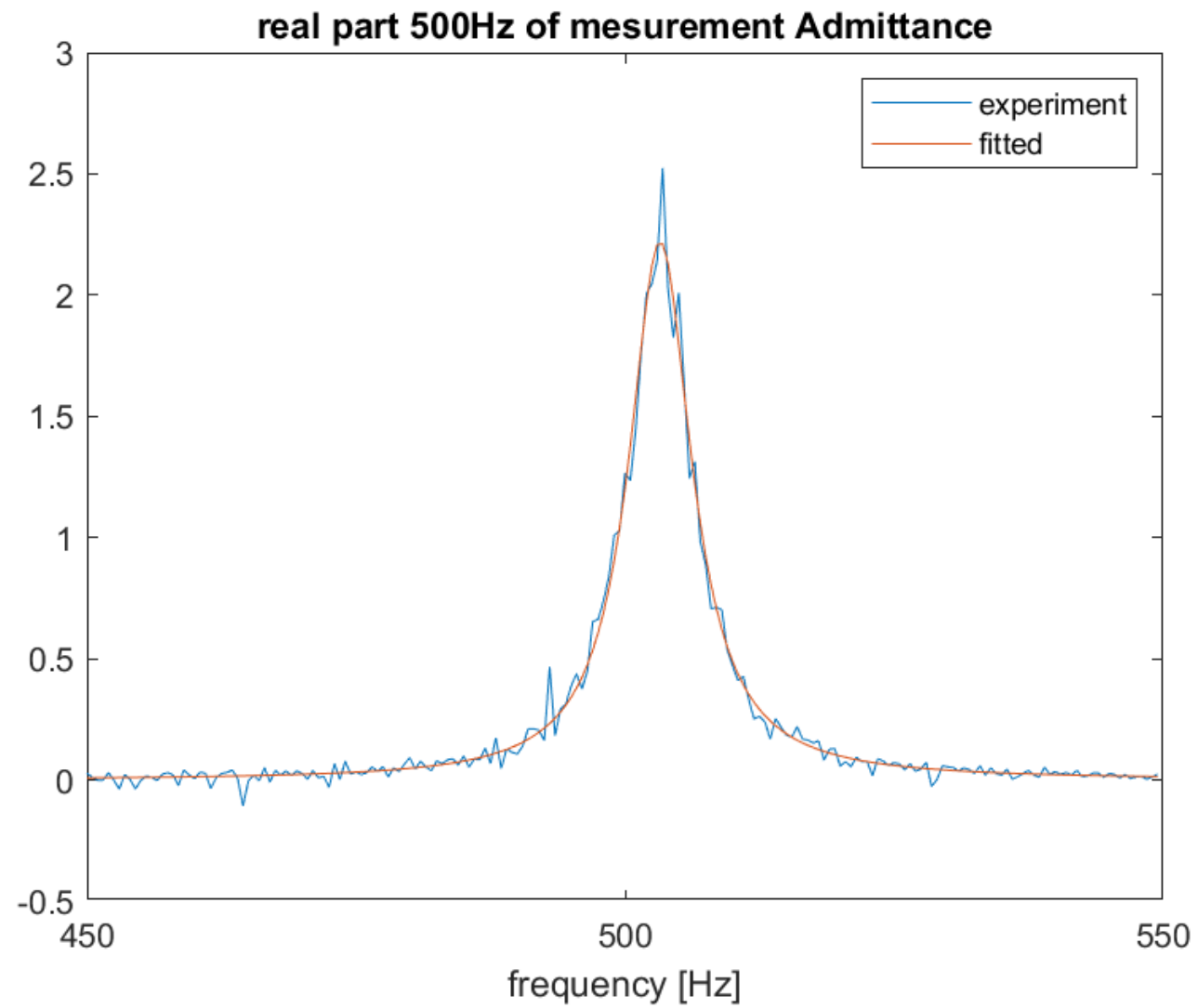
**real**



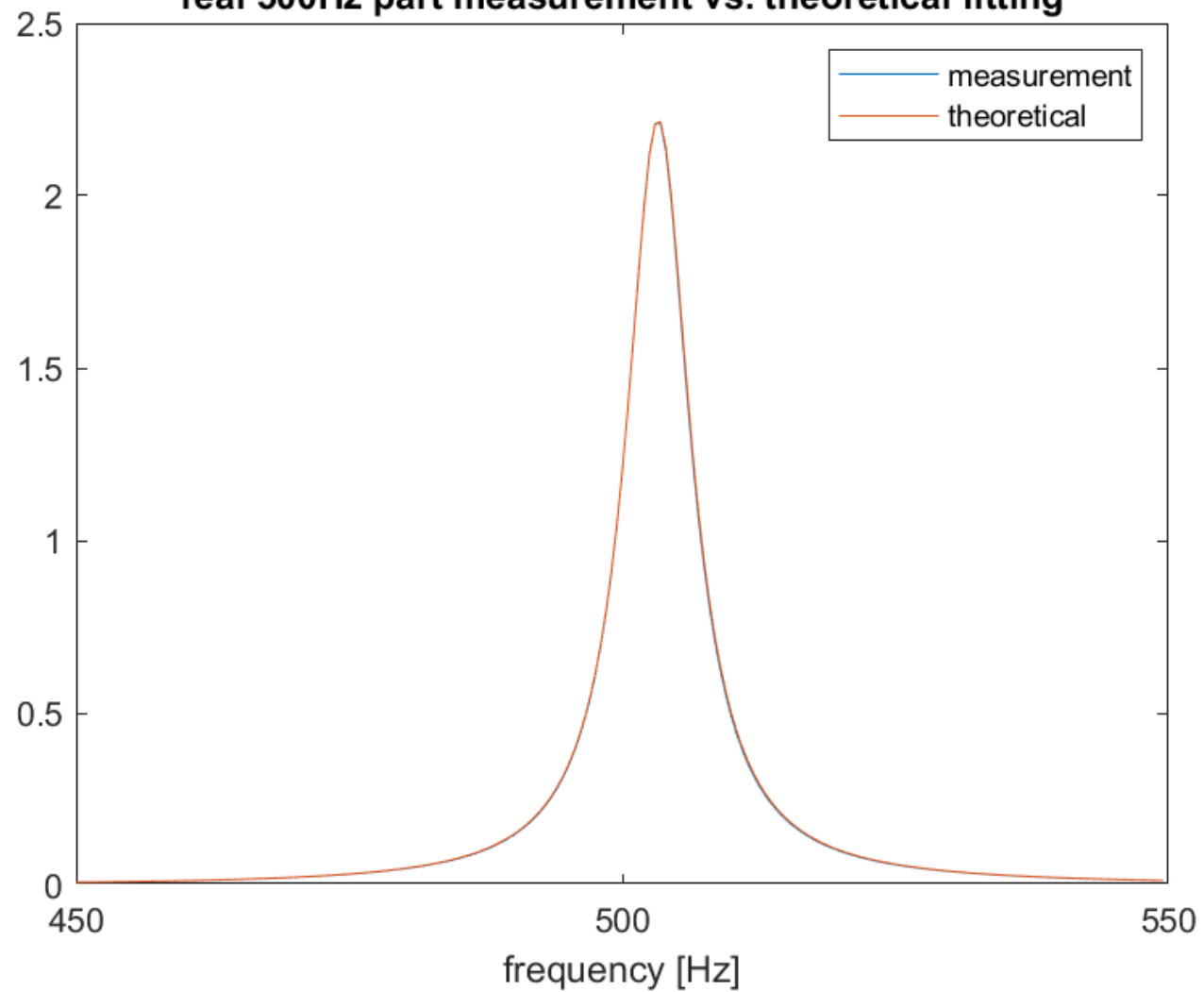
**imaginary**



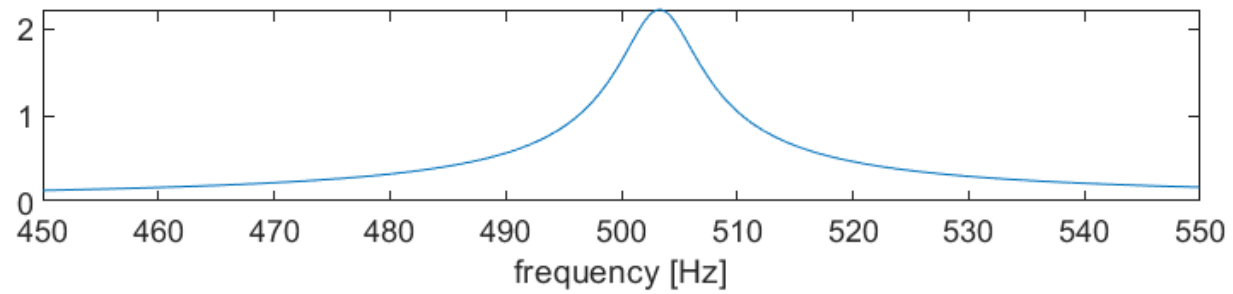




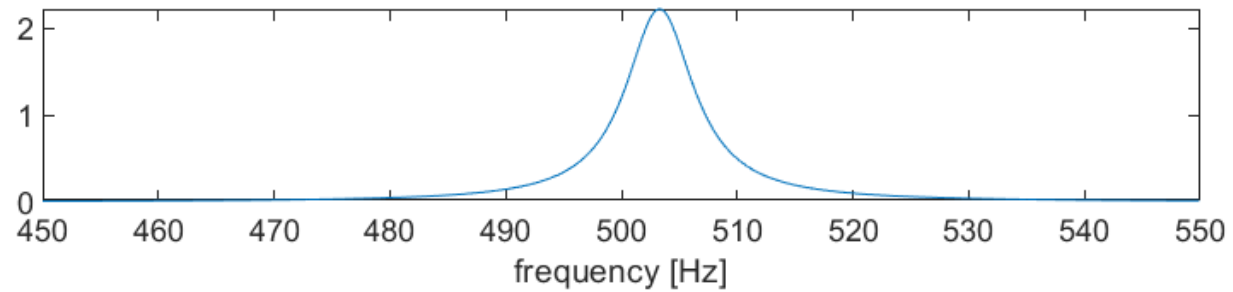
real 500Hz part measurement vs. theoretical fitting



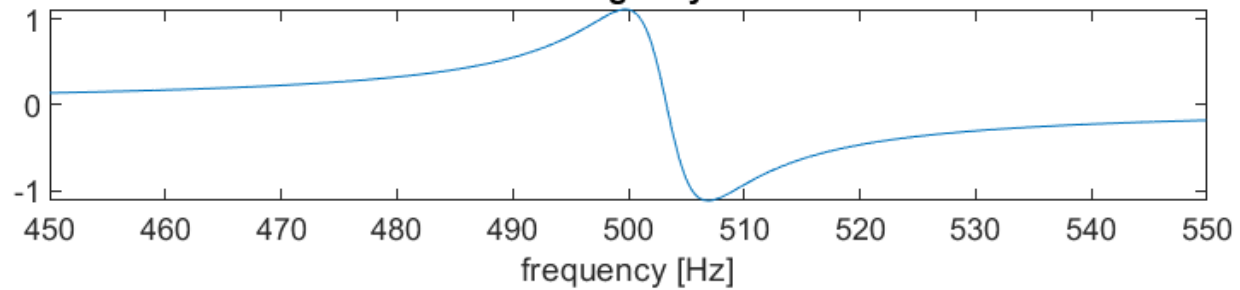
**500Hz Theoretical Admittance abs**

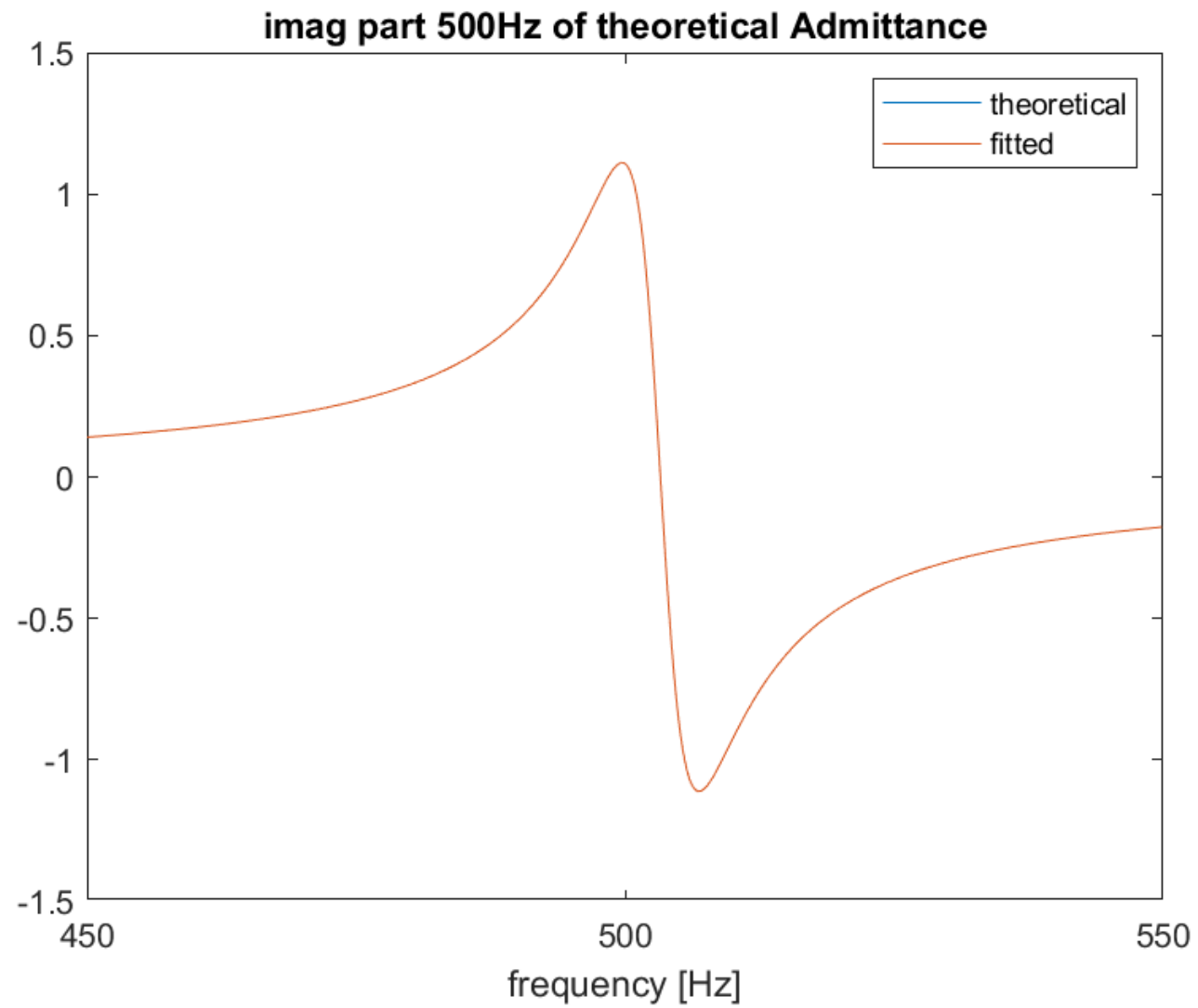


**real**

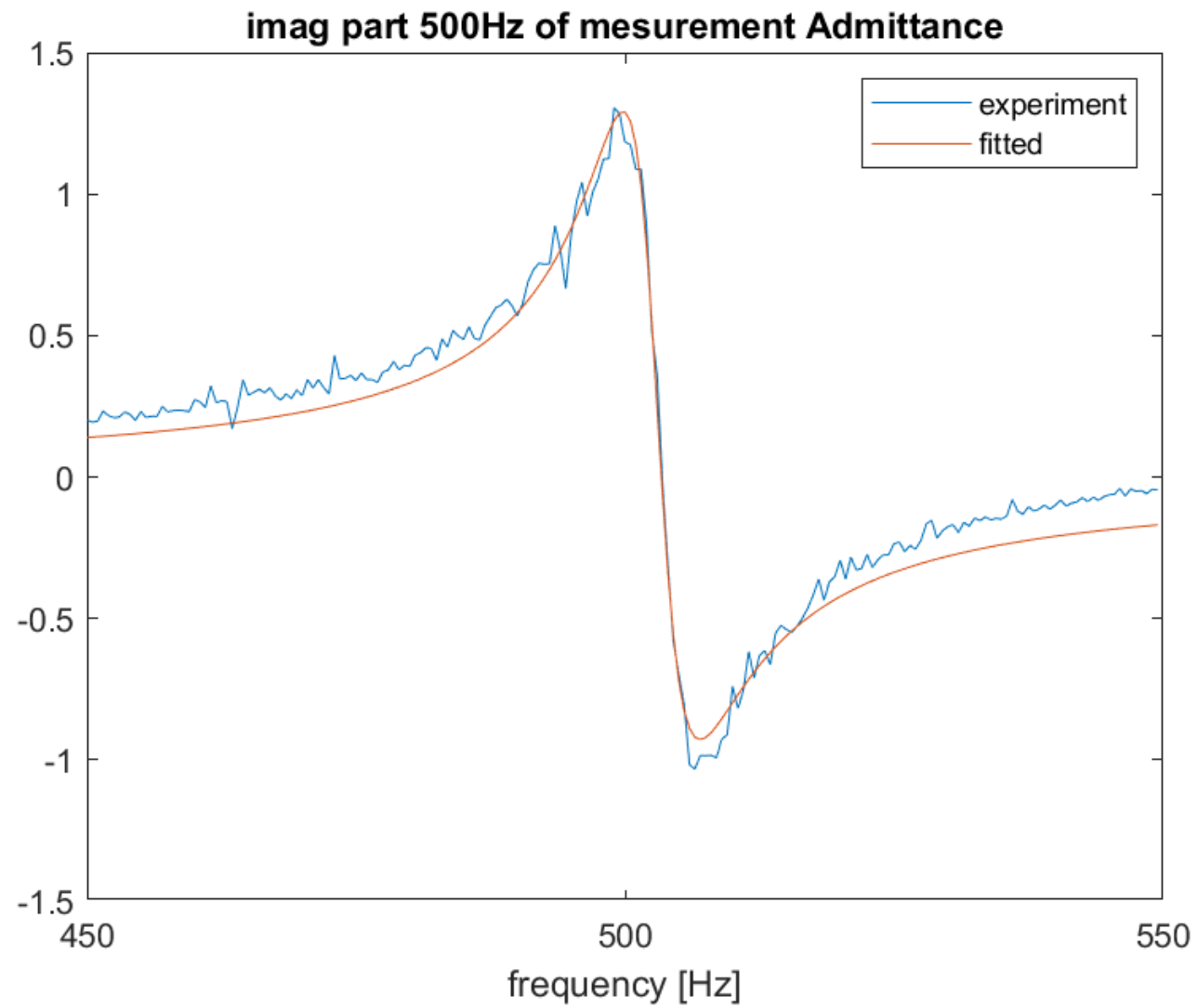


**imaginary**

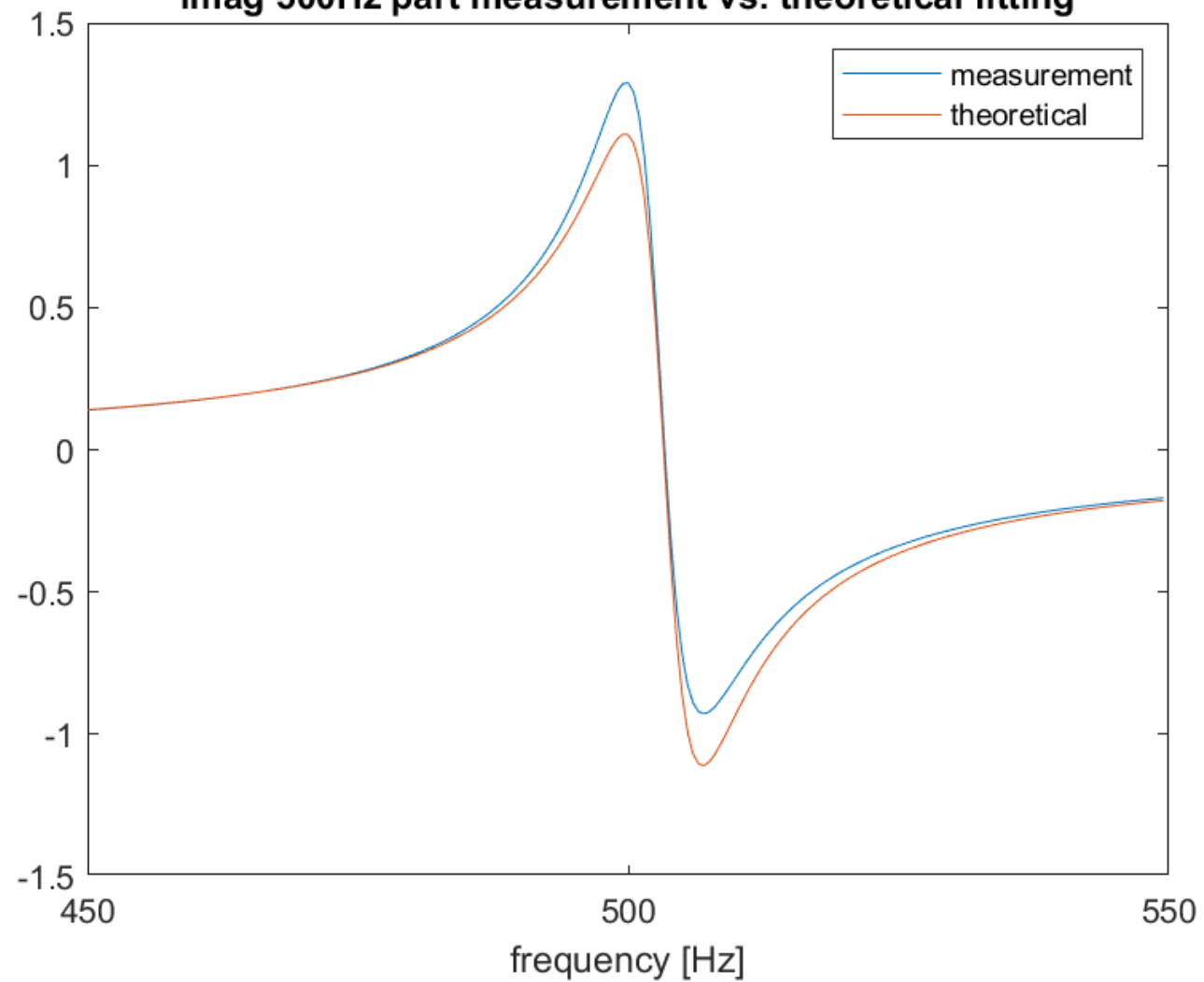








imag 500Hz part measurement vs. theoretical fitting



	real theo	real exp	imag theo	imag exp
b0	4500	4430.365982	-100	-96.95378949
b1	0	0.02868341	0	8.457356447
b2	0	0.020918842	10000000000	969873471.3
b3	1	1	0	-7.209145261
b4	0	0.089375134	1	1
b5	-19997975	-19996520.16	0	-11.25326991
b6	0	-0.371821548	-19997975	-19905543.05
b7	1E+14	9.99823E+13	0	15.70637705
b8			1E+14	9.94313E+13

Real order: 2/4

Imag order: 3/4

$$Y_{real} = \frac{b_0 w^2 + \frac{1}{L_m^2 C_m^2} (C_m^2 R_m^2 - 2L_m C_m) w^2 + \frac{1}{L_m^2 C_m^2}}{w^4 + \frac{1}{L_m^2 C_m^2} (C_m^2 R_m^2 - 2L_m C_m) w^2 + \frac{1}{L_m^2 C_m^2}}$$

$$Y_{im} = \frac{(-\frac{1}{L}) w^3 + (\frac{1}{L^2 C}) w}{w^4 + \frac{1}{L_m^2 C_m^2} (C_m^2 R_m^2 - 2L_m C_m) w^2 + \frac{1}{L_m^2 C_m^2}}$$

Diagram illustrating the real and imaginary parts of the transfer function  $Y(s)$  in terms of coefficients  $b_0$  through  $b_8$ . The real part  $Y_{real}$  is a rational function with a numerator of order 2 and a denominator of order 4. The imaginary part  $Y_{im}$  is a rational function with a numerator of order 3 and a denominator of order 4. The coefficients  $b_0$  through  $b_8$  are associated with the terms in the polynomials.

Branch type: RLC

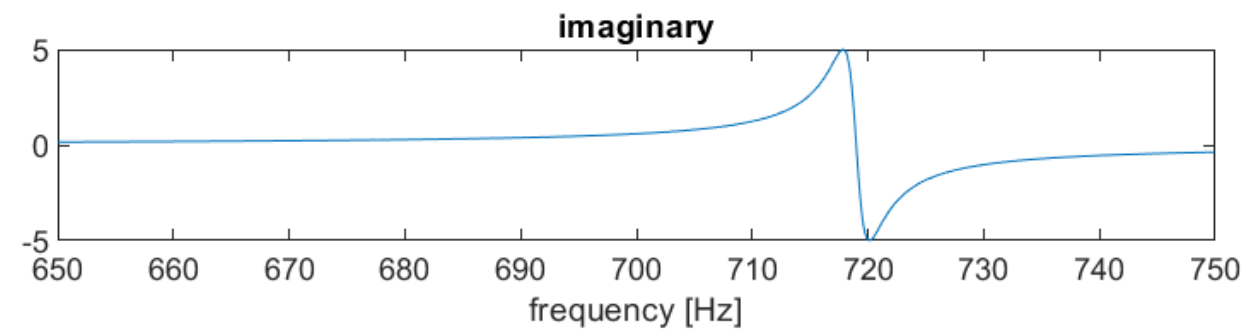
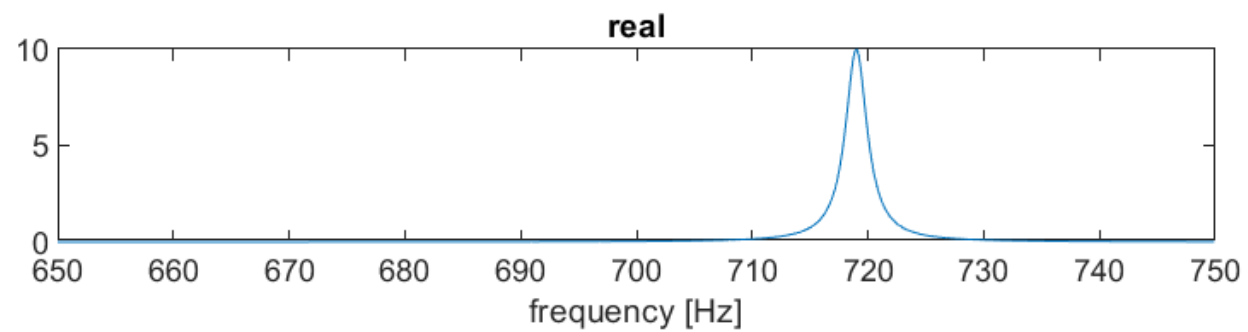
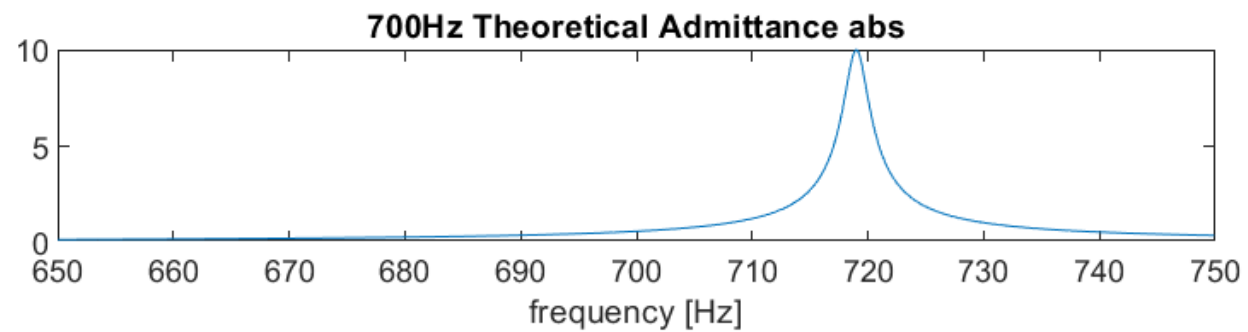
Resistance (Ohms):

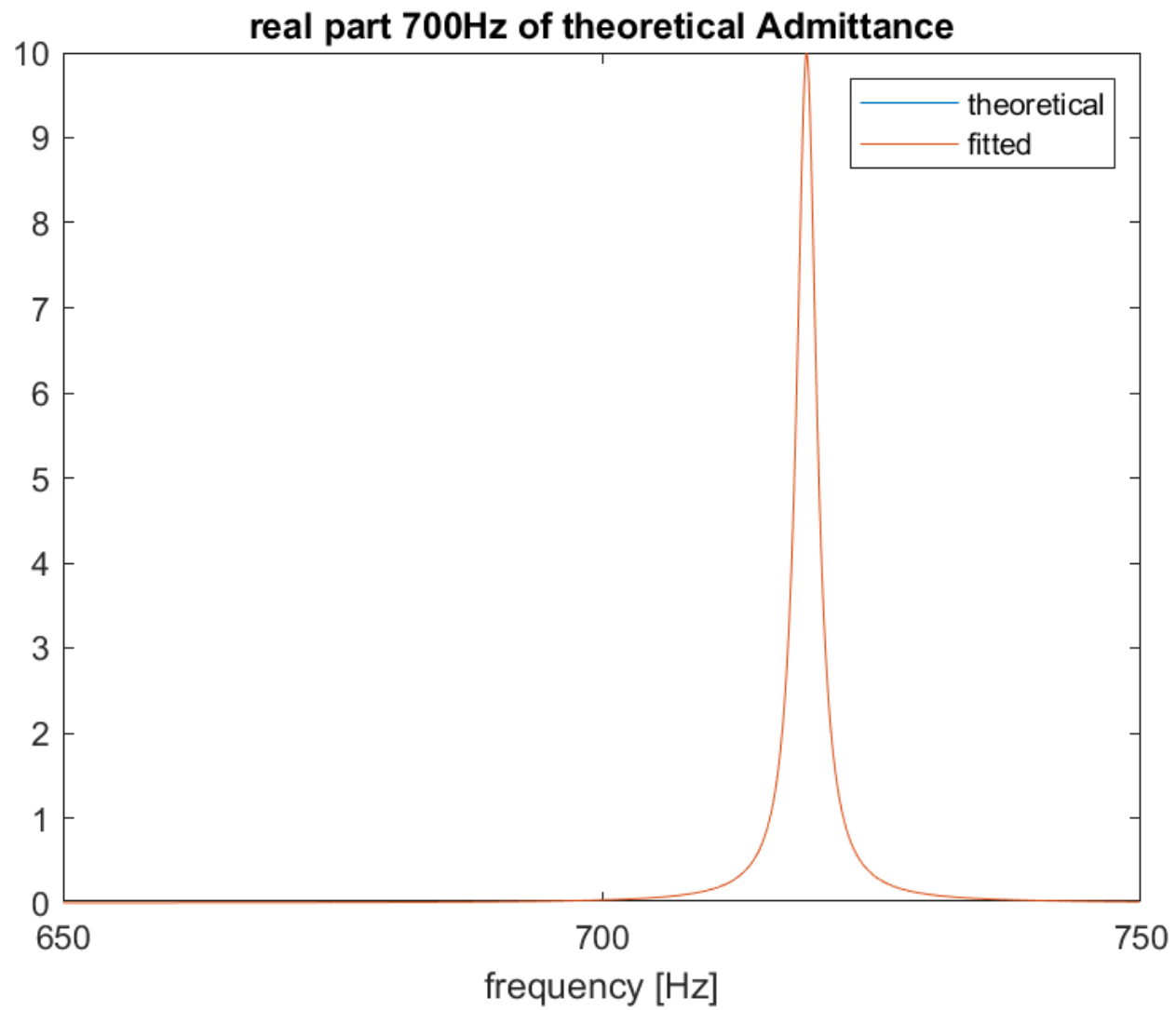
Inductance (H):

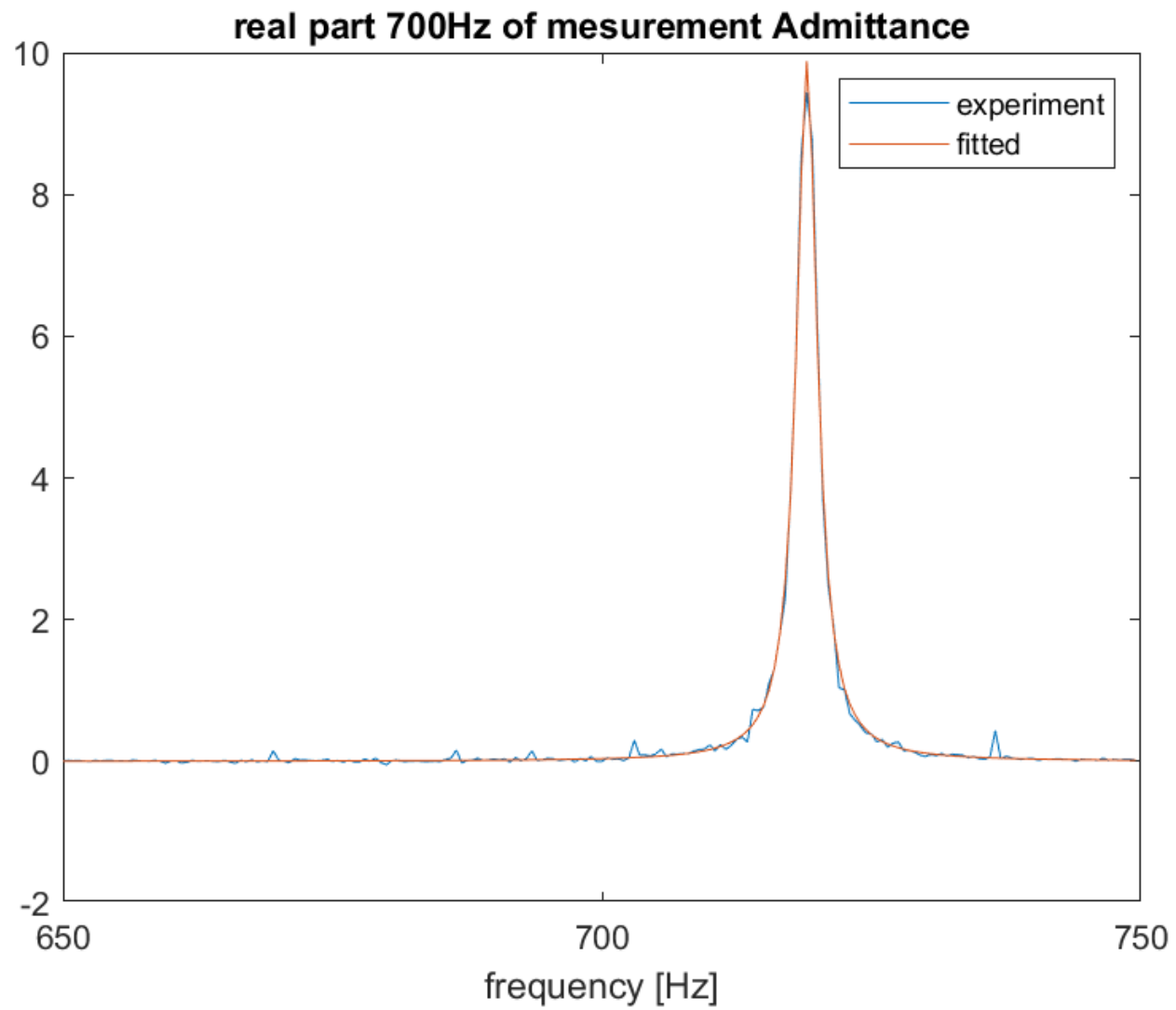
☐ Set the initial inductor current

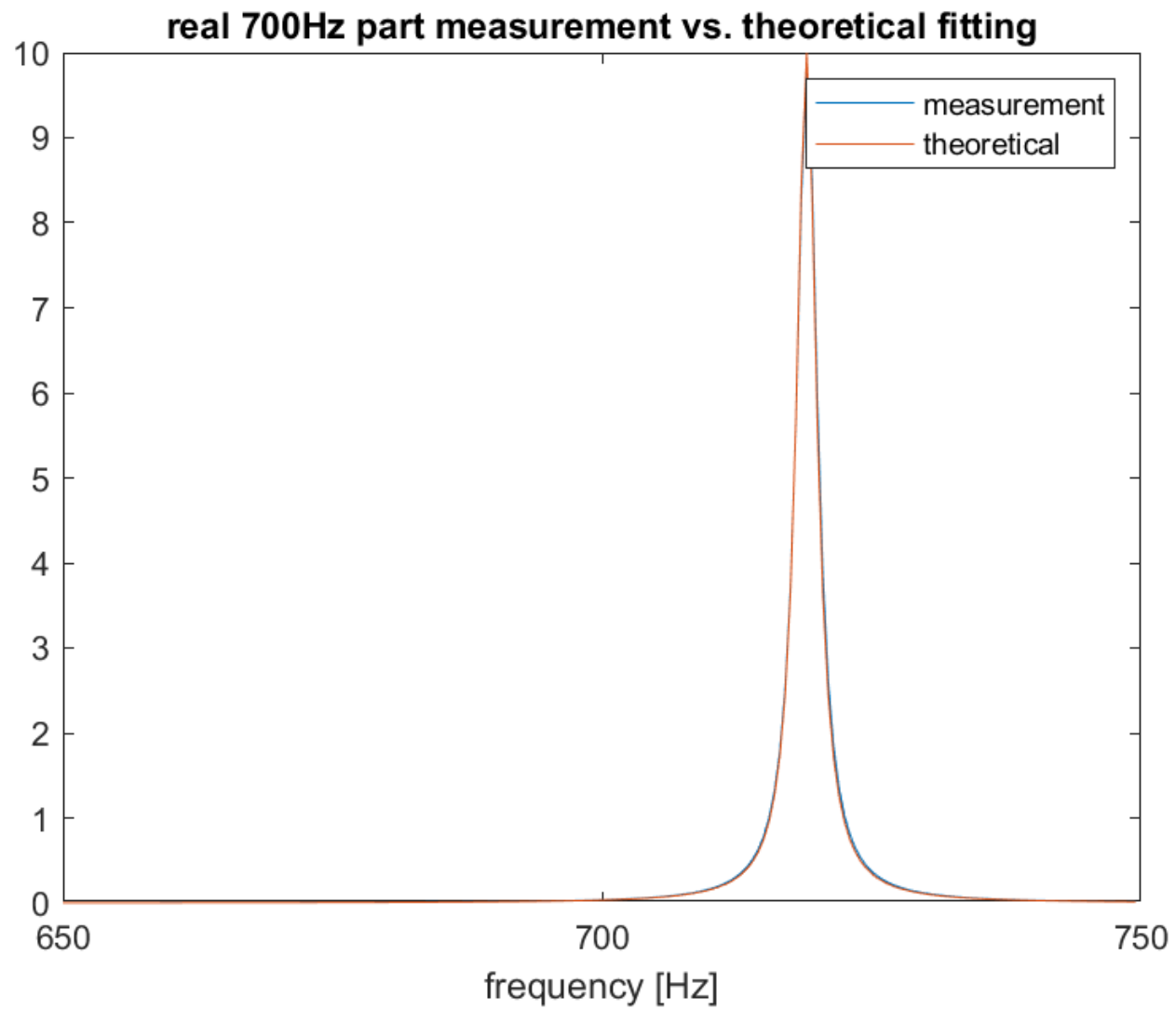
Capacitance (F):

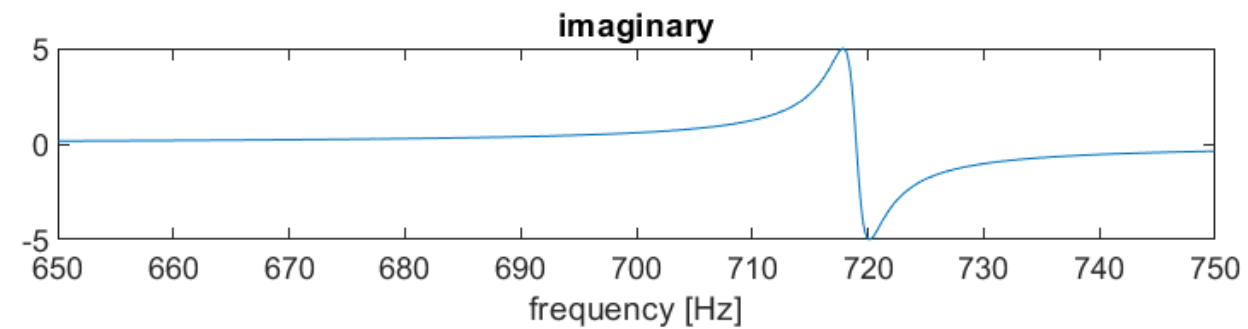
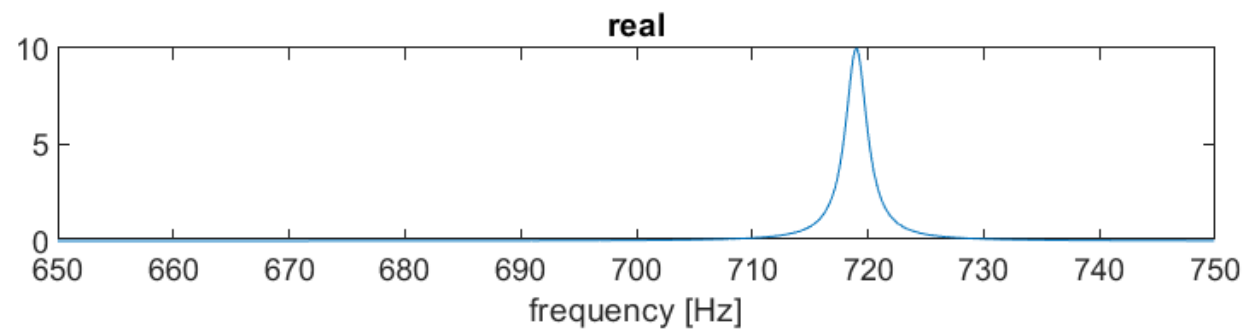
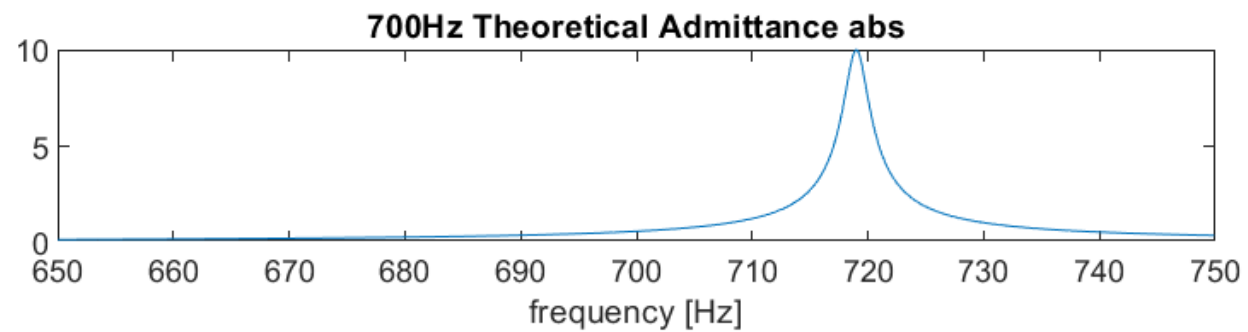
☐ Set the initial capacitor voltage





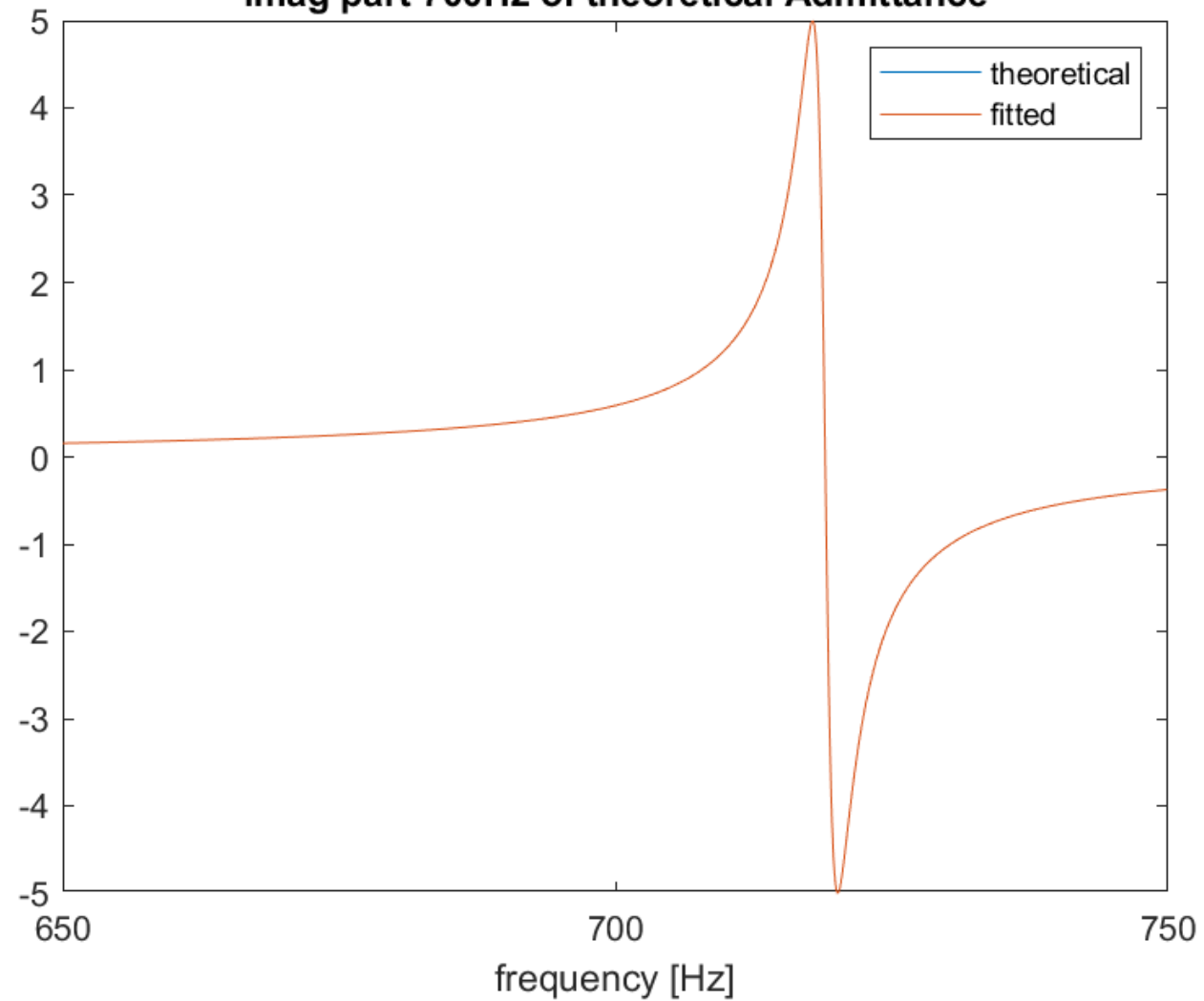


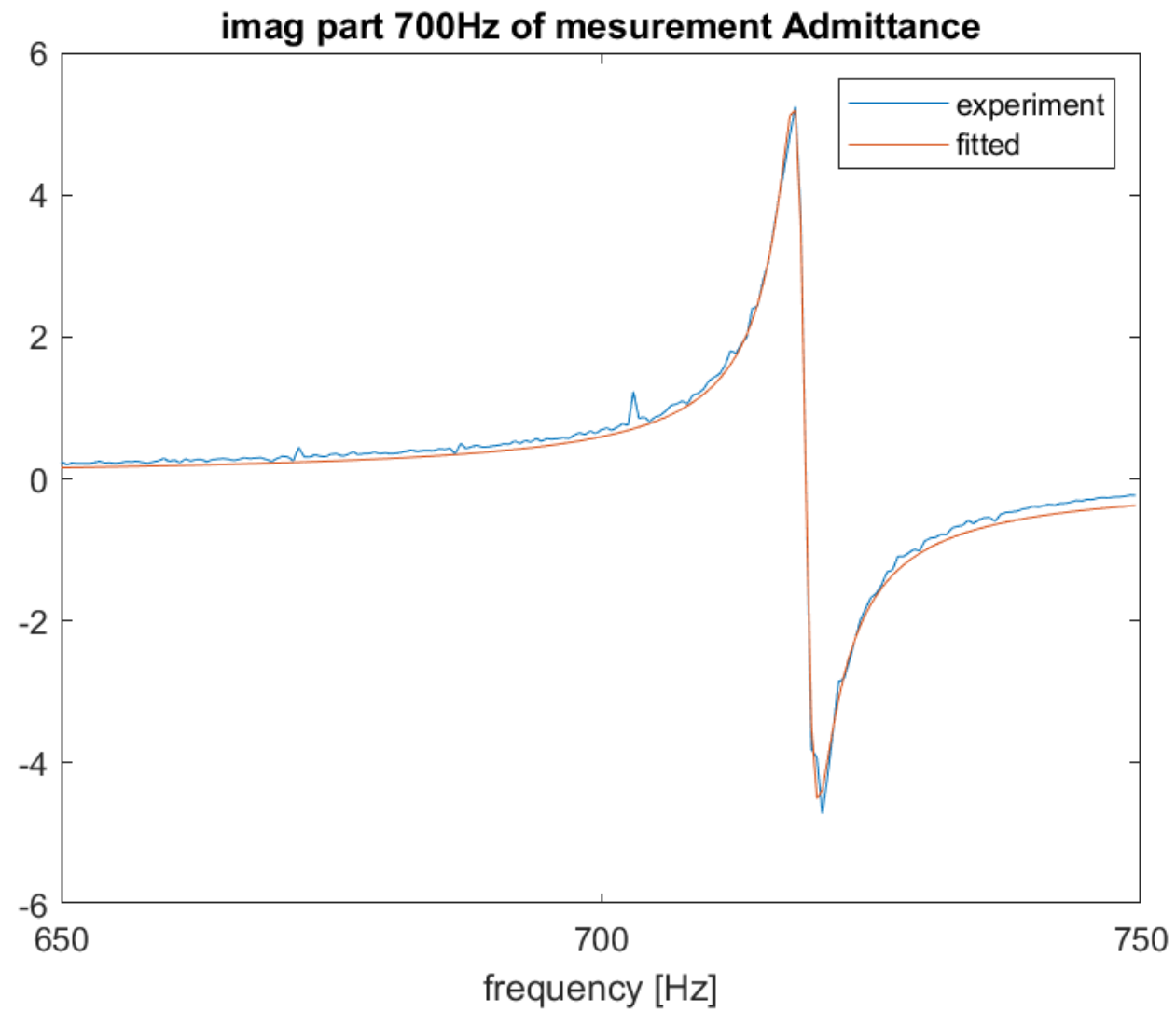




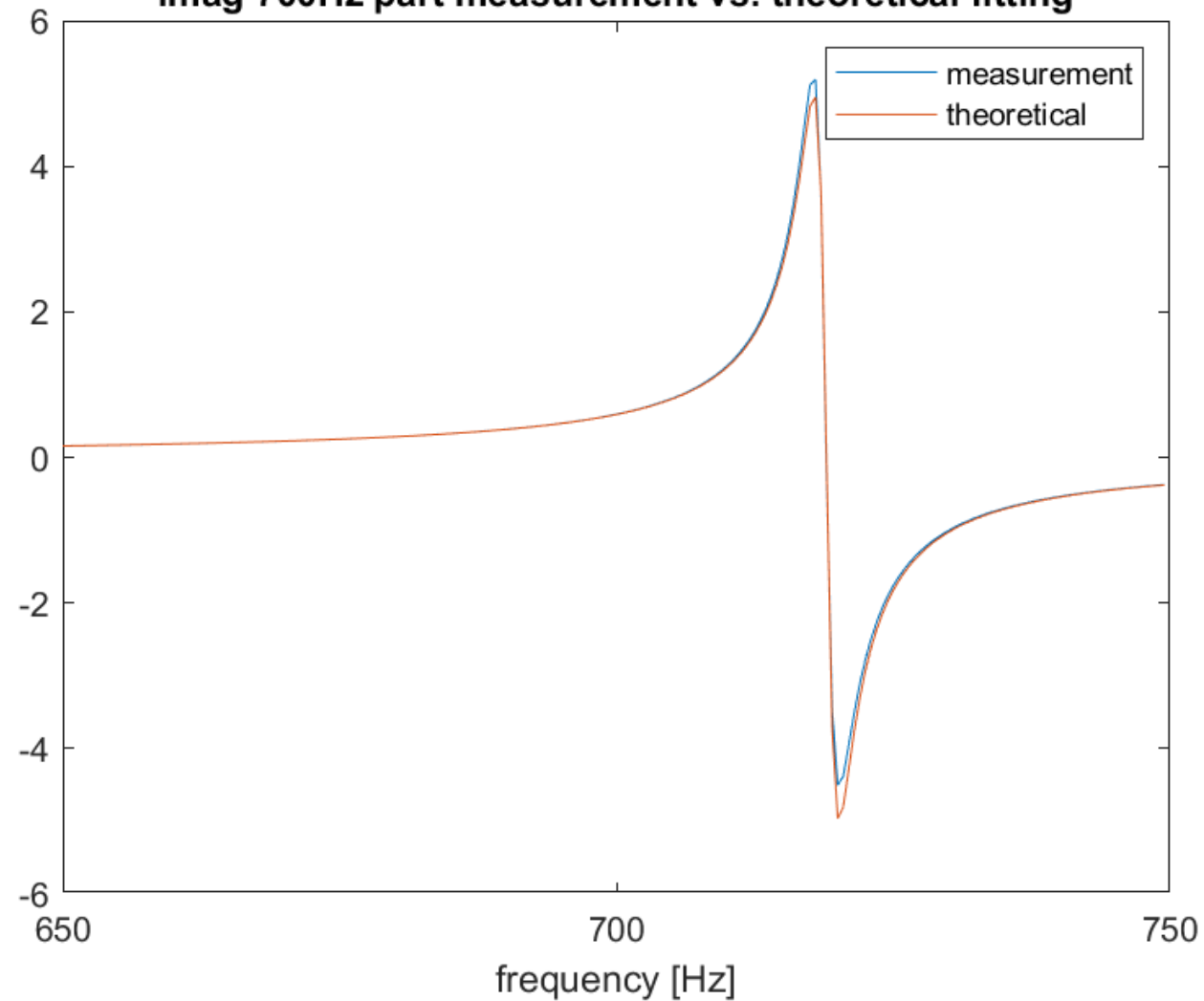


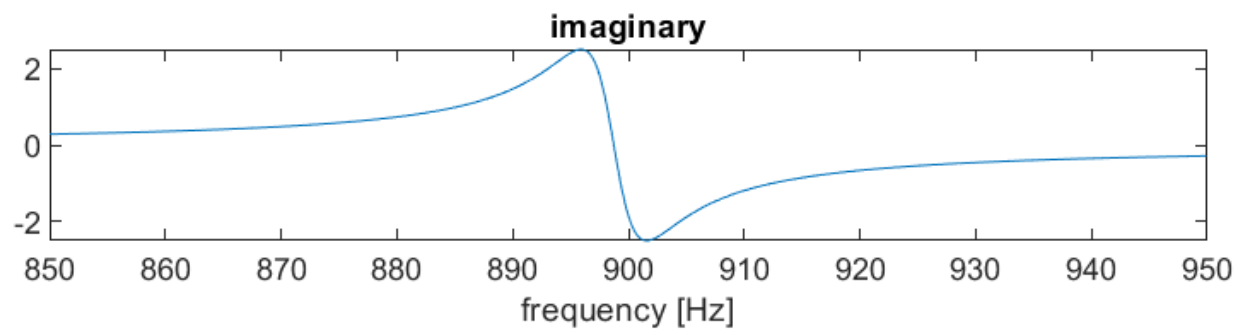
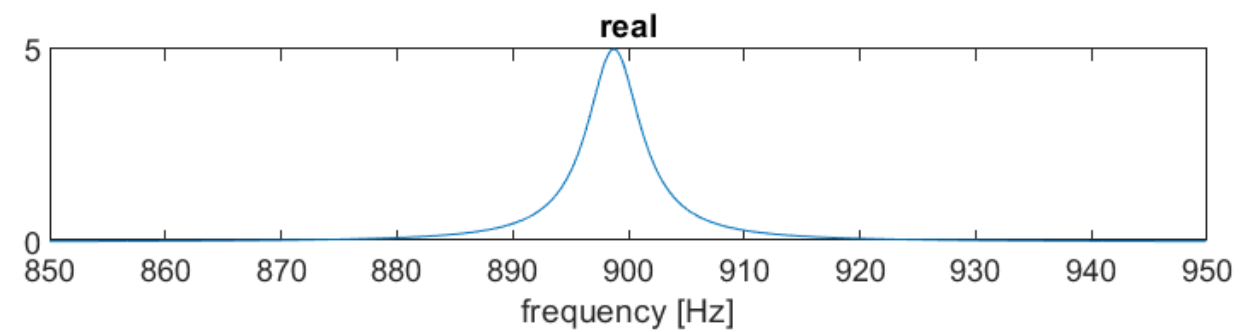
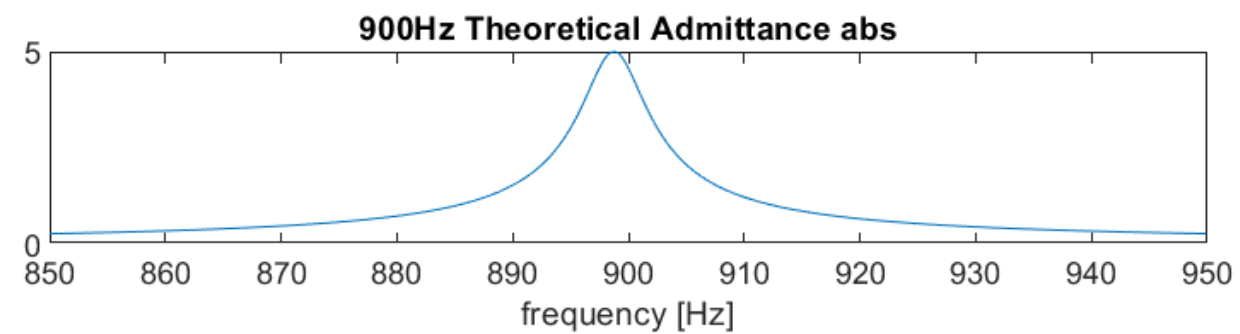
imag part 700Hz of theoretical Admittance



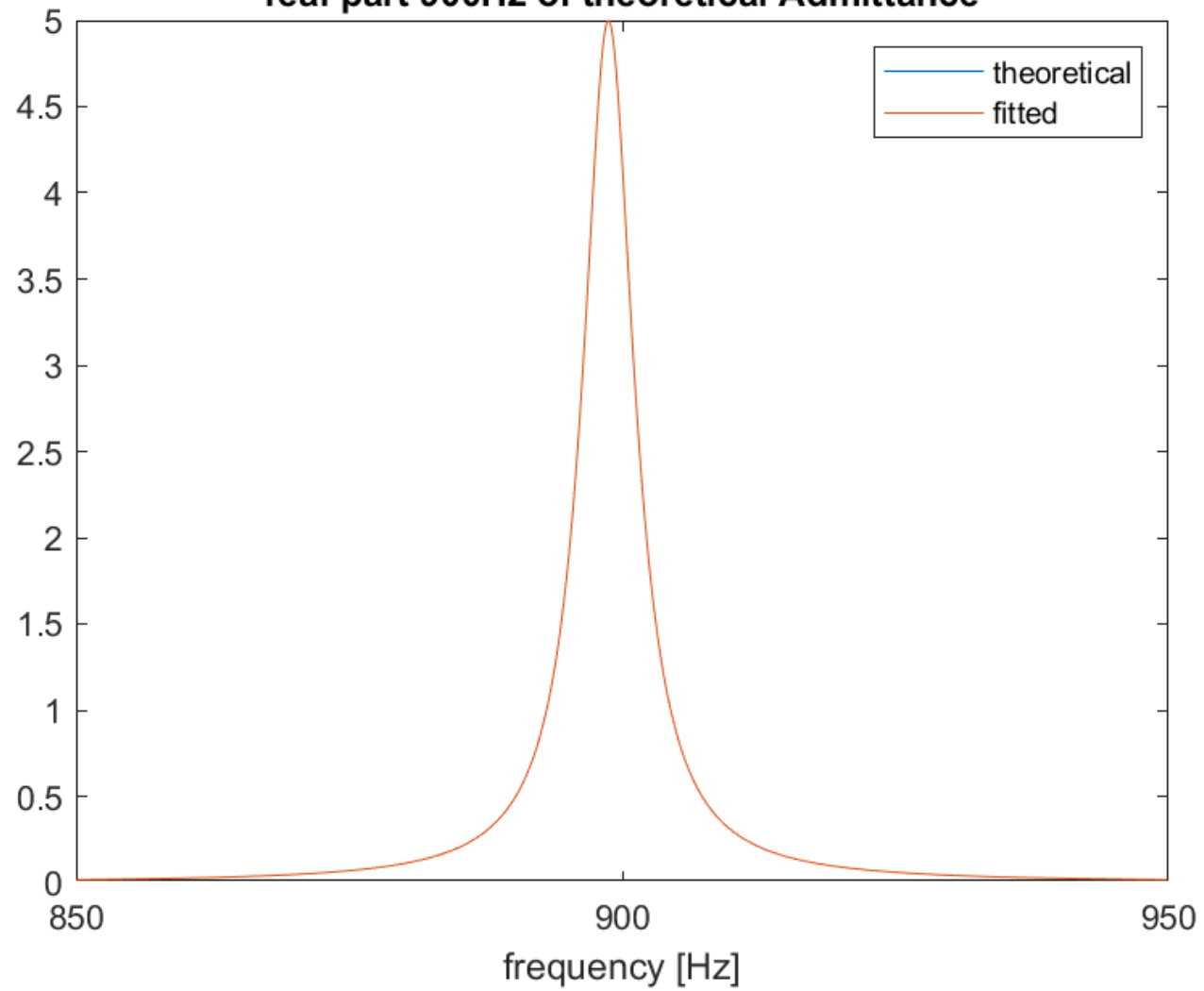


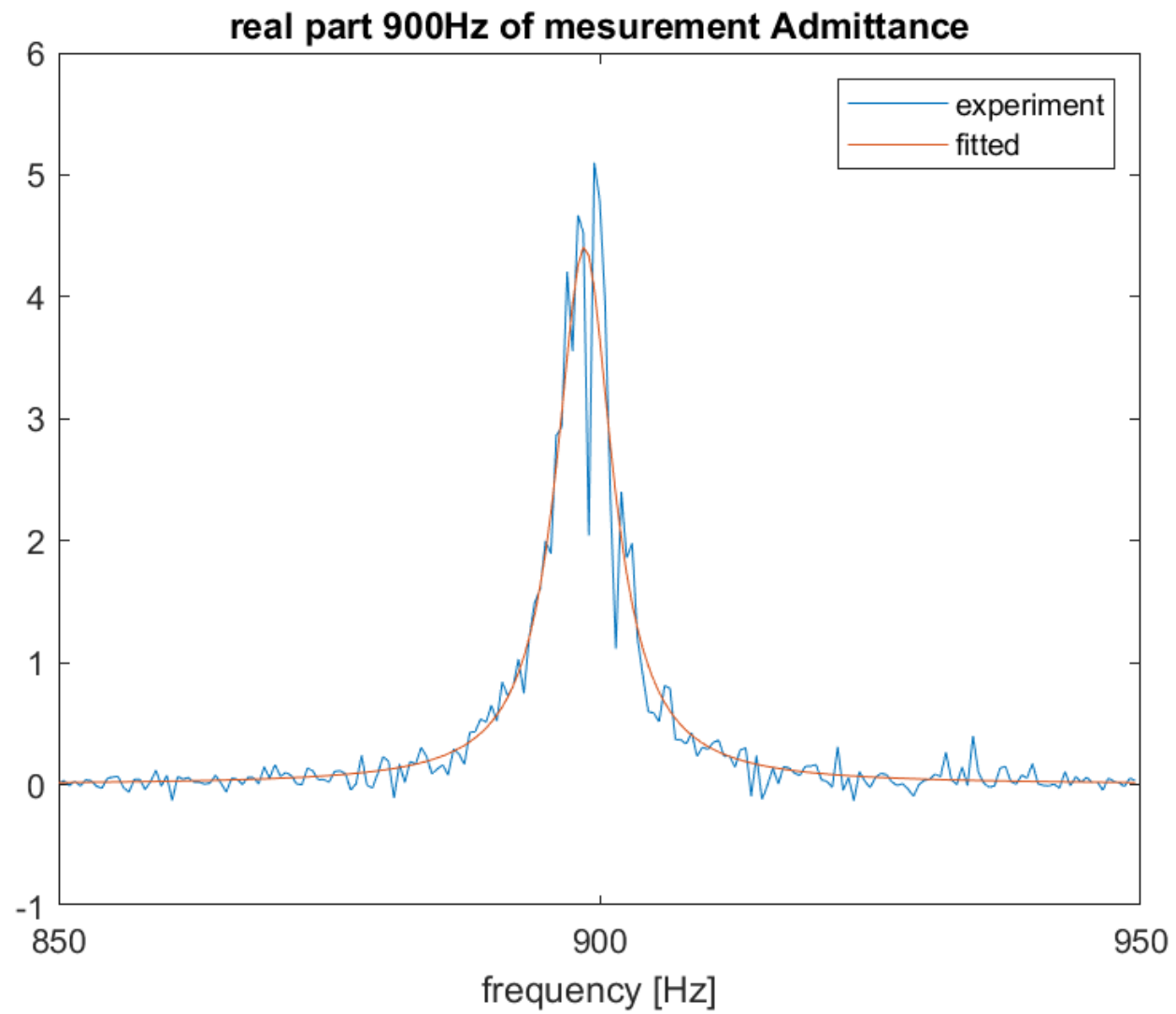
imag 700Hz part measurement vs. theoretical fitting



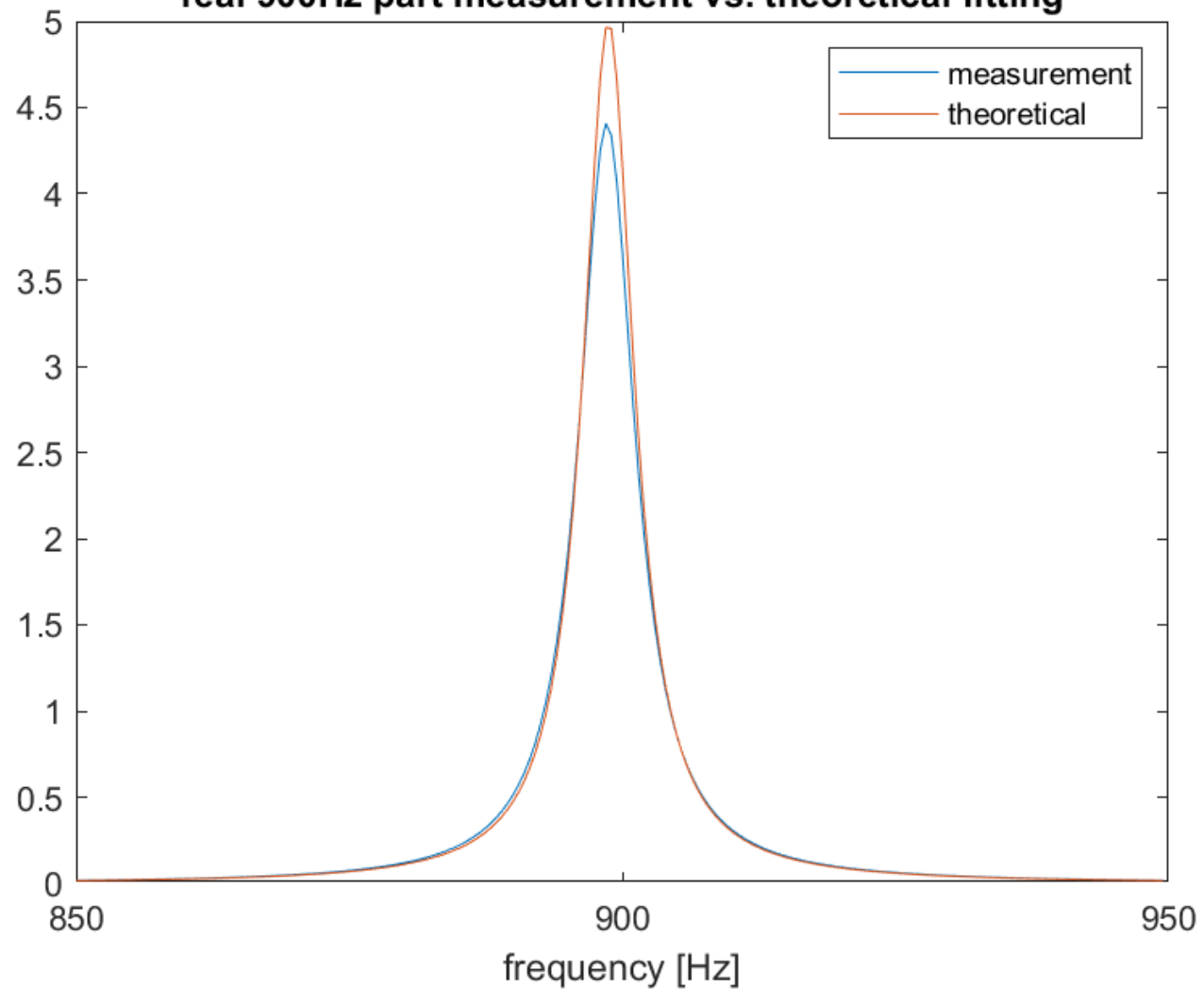


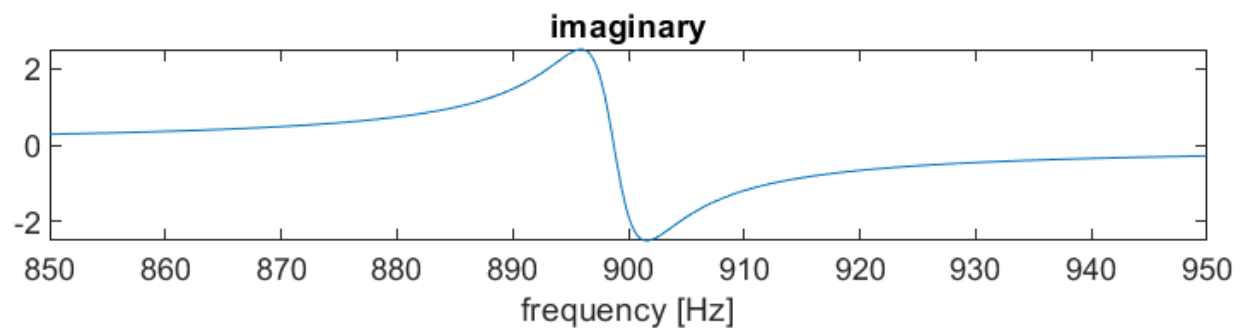
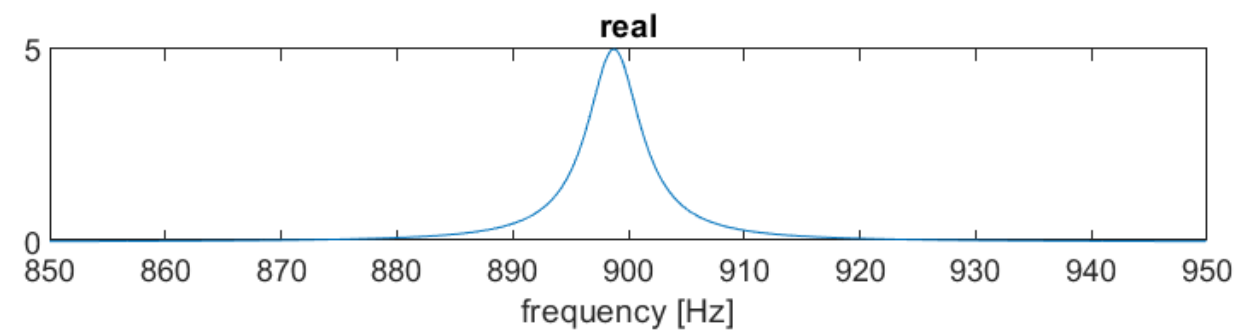
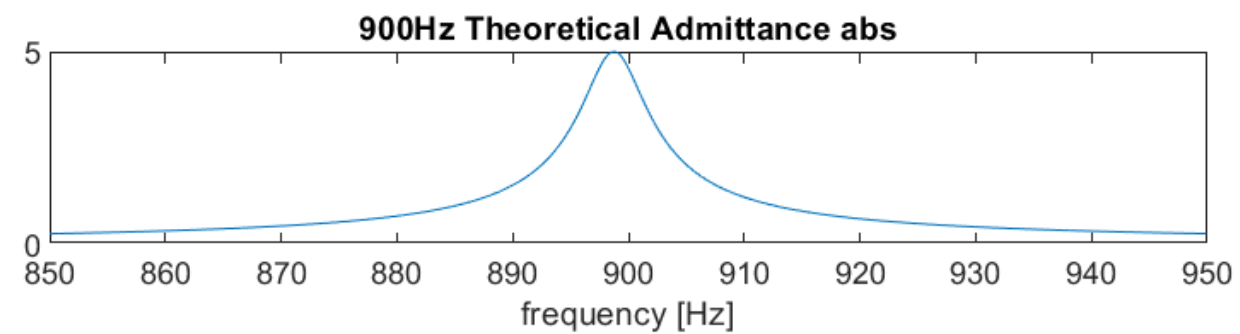
real part 900Hz of theoretical Admittance





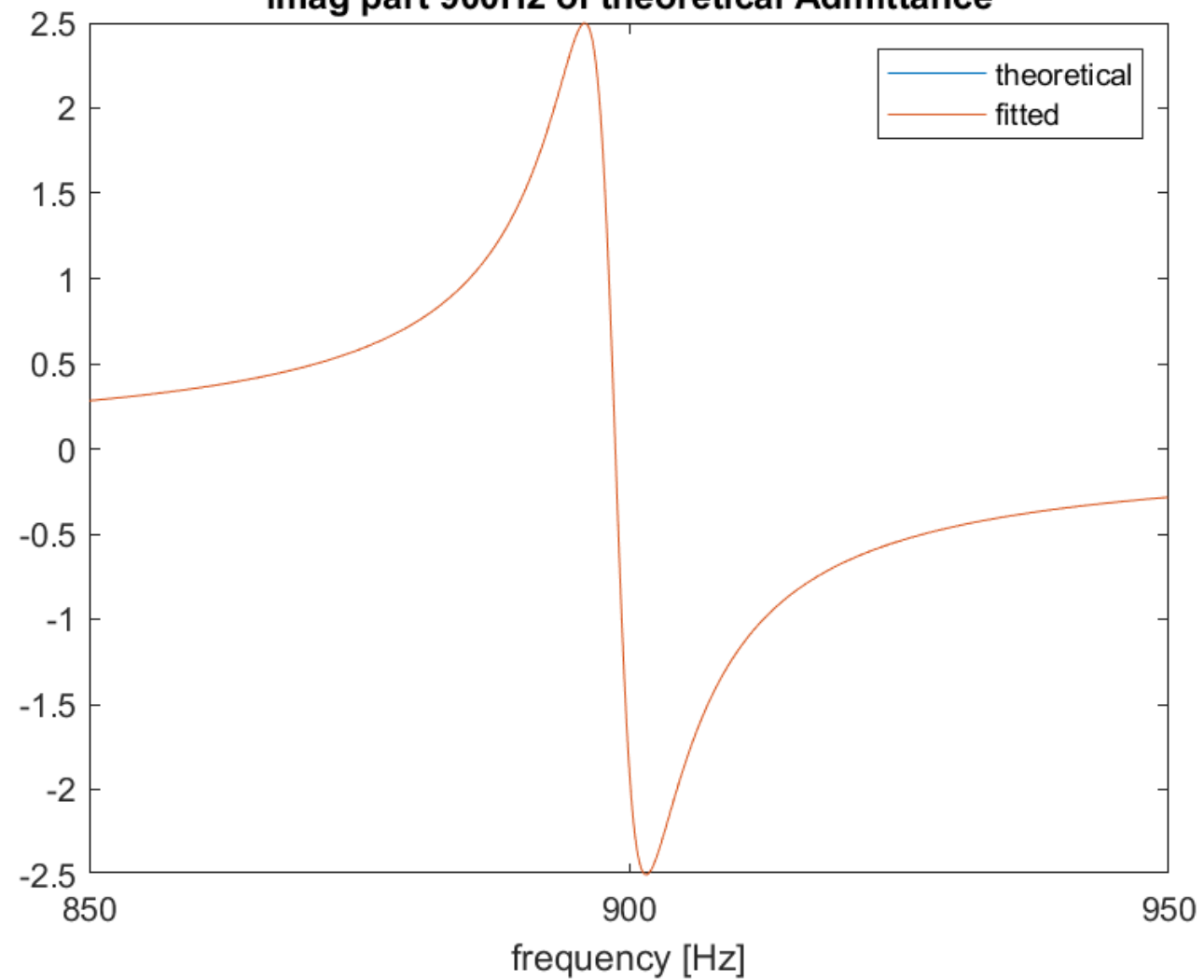
real 900Hz part measurement vs. theoretical fitting



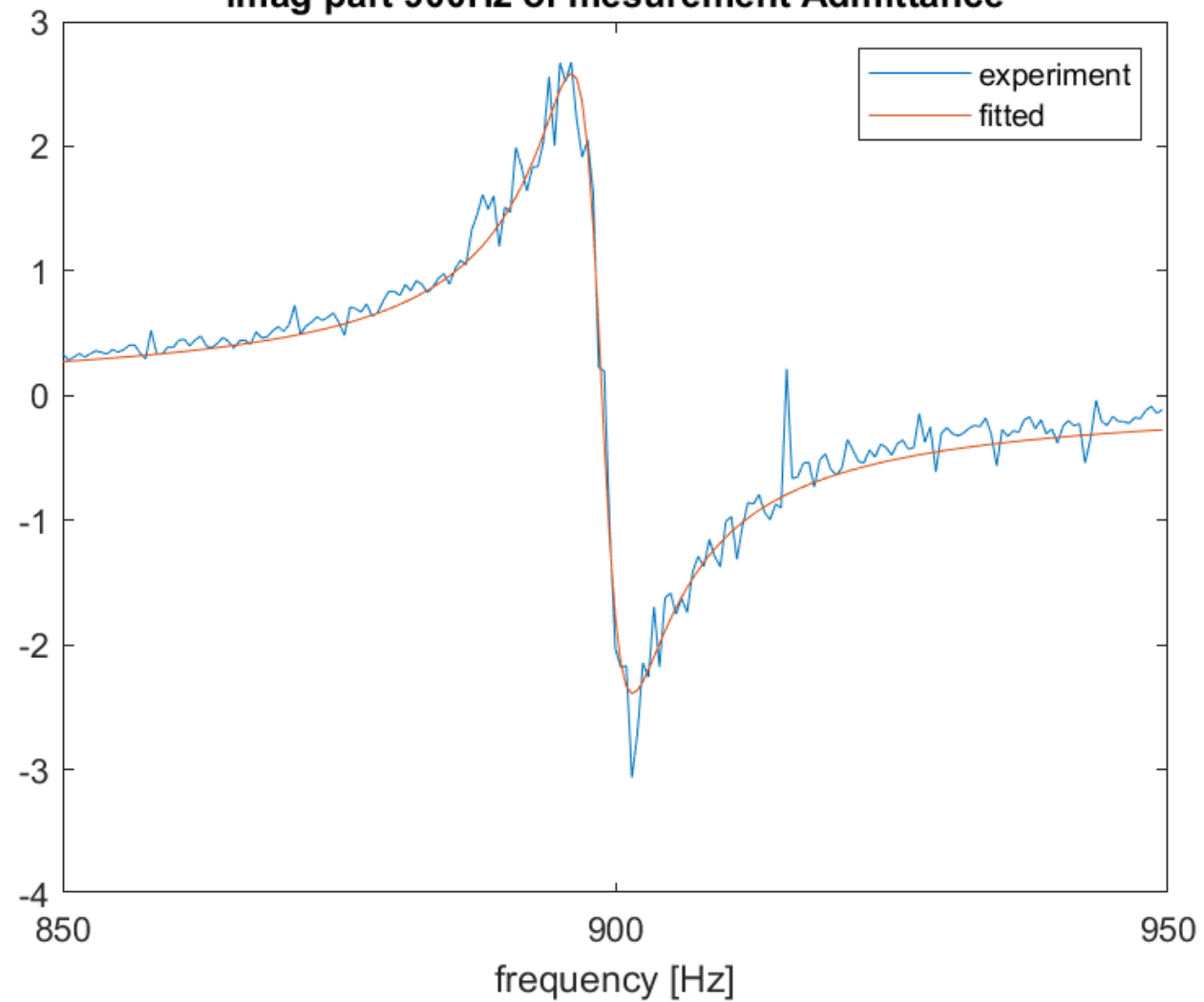




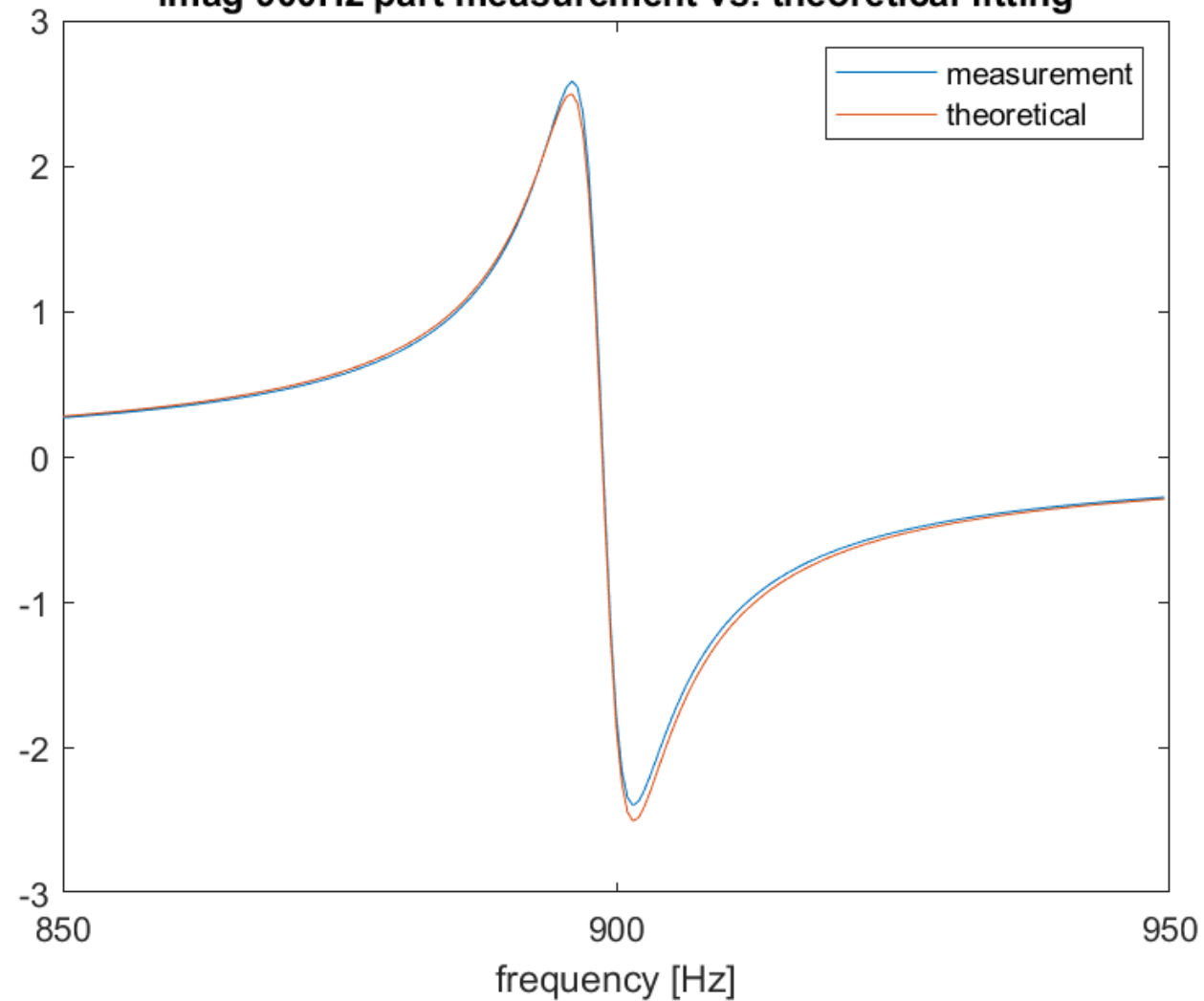
imag part 900Hz of theoretical Admittance

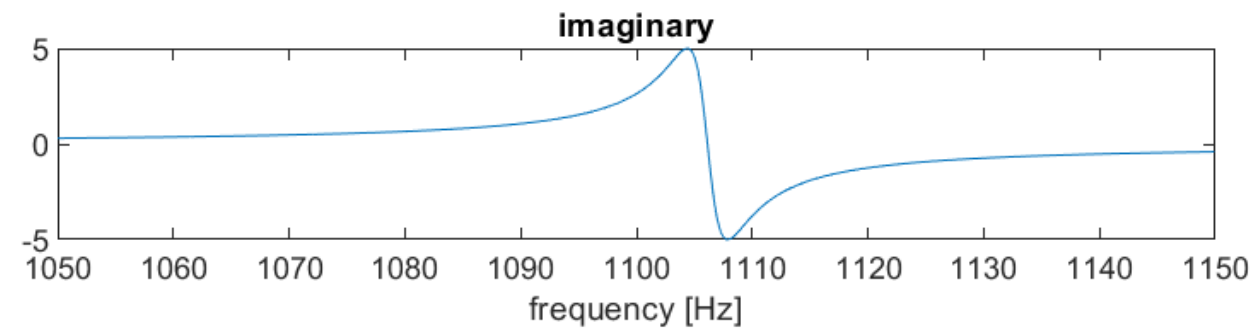
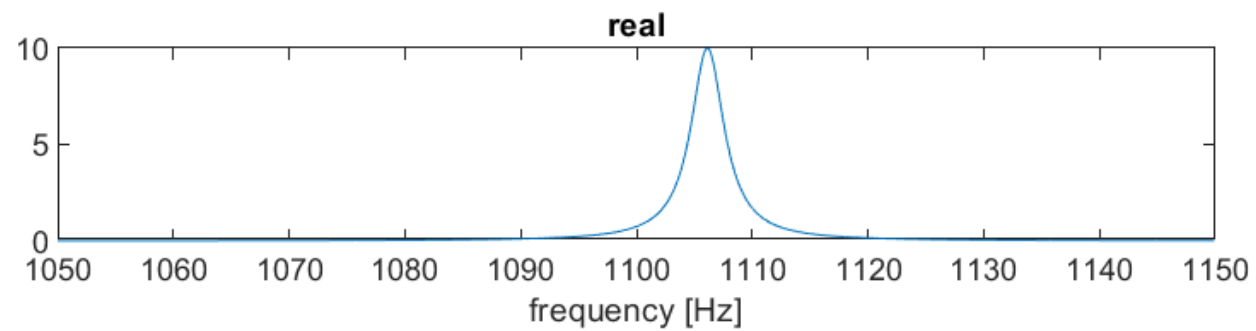
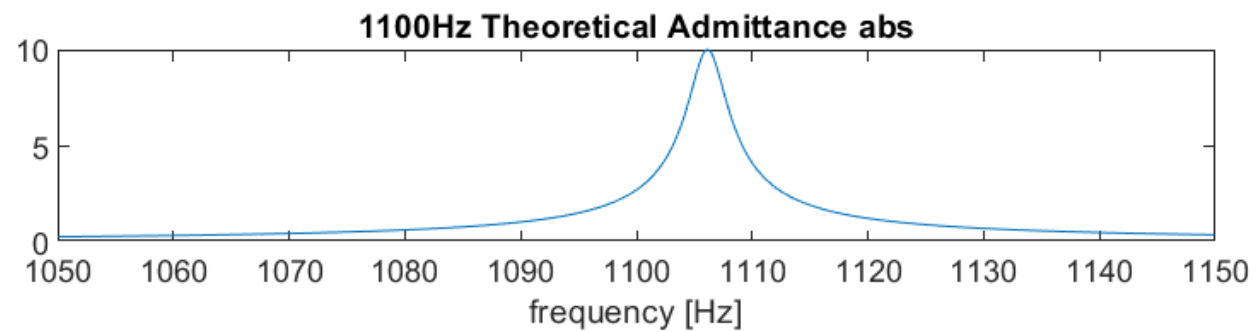


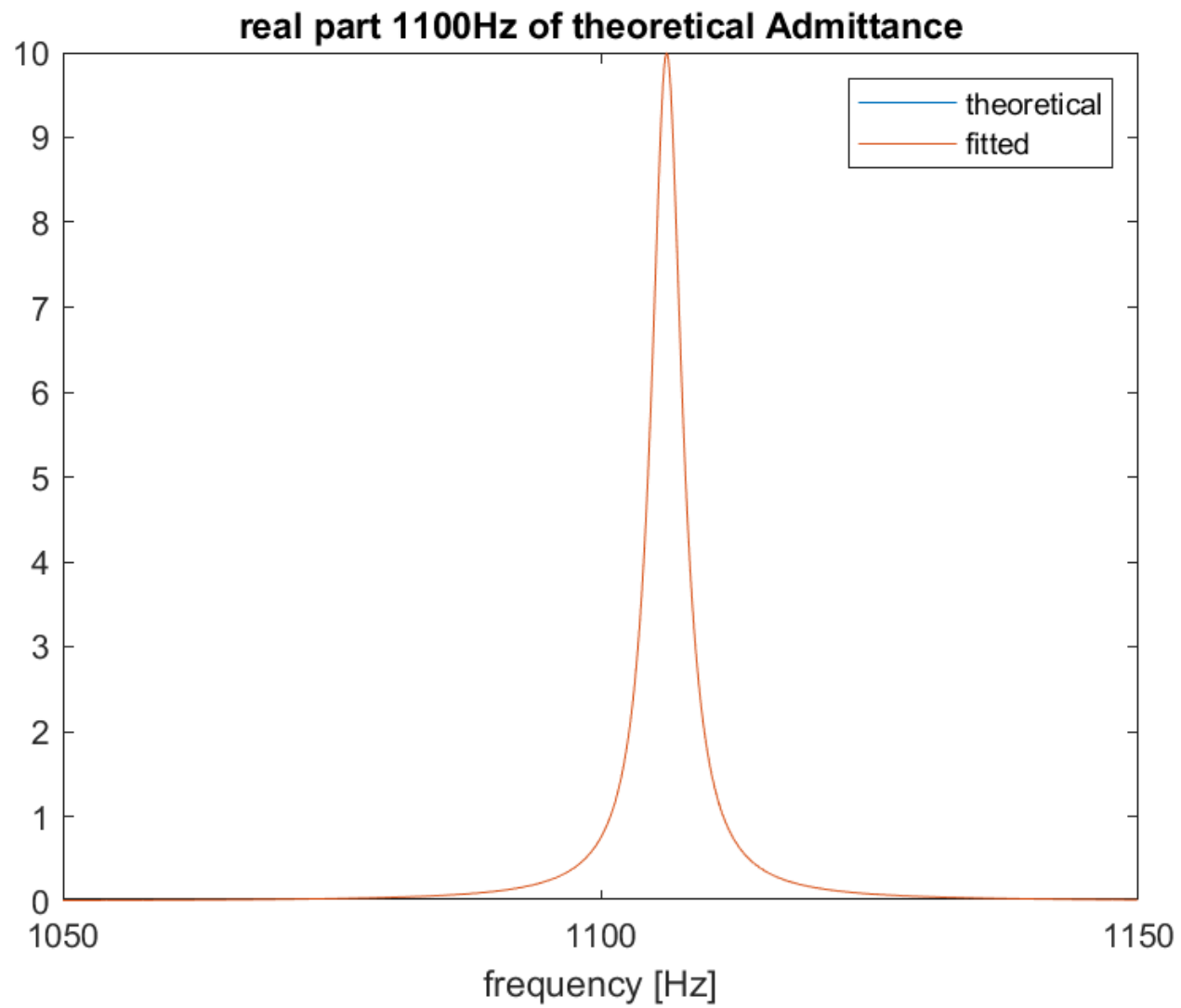
**imag part 900Hz of measurement Admittance**



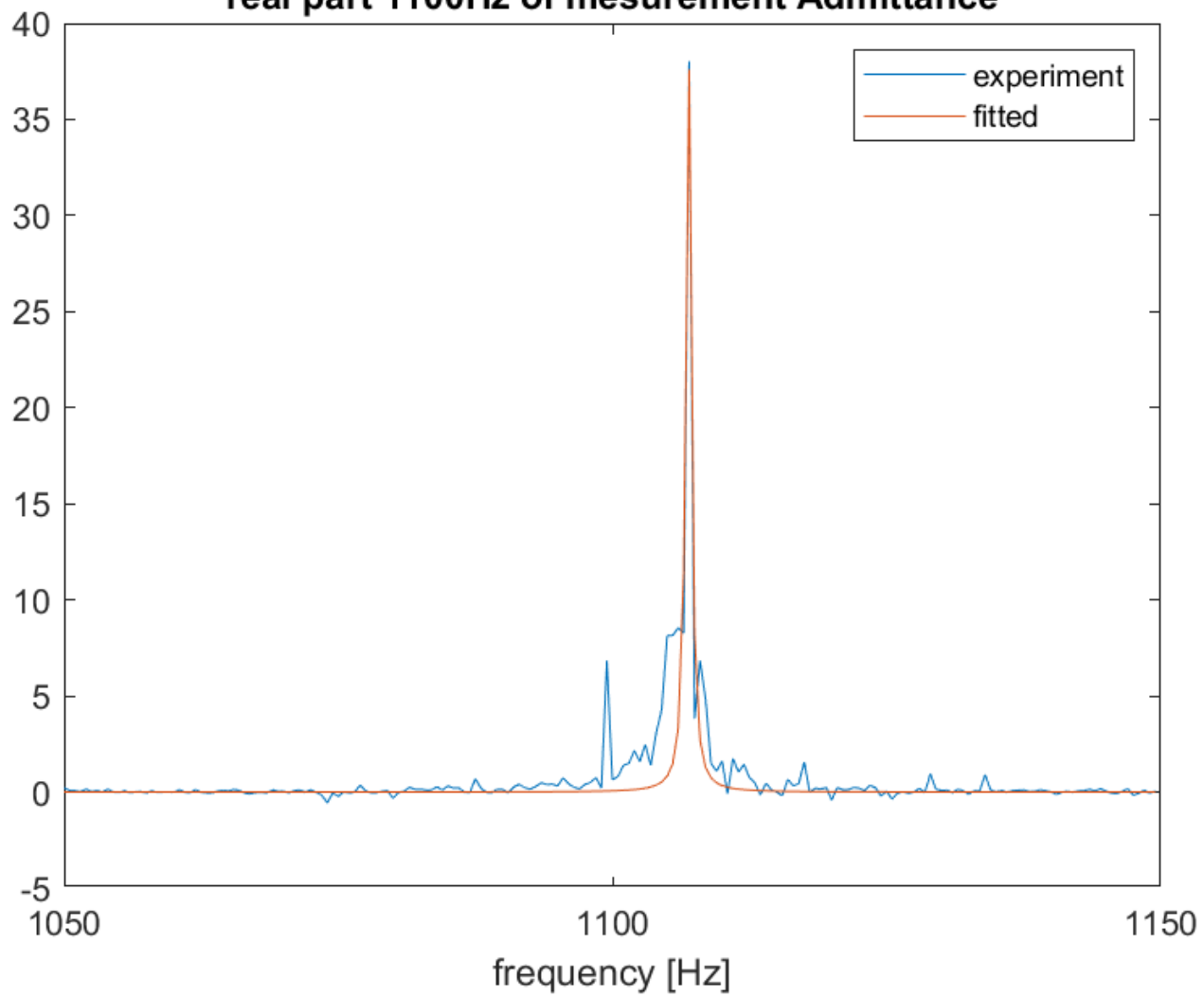
imag 900Hz part measurement vs. theoretical fitting



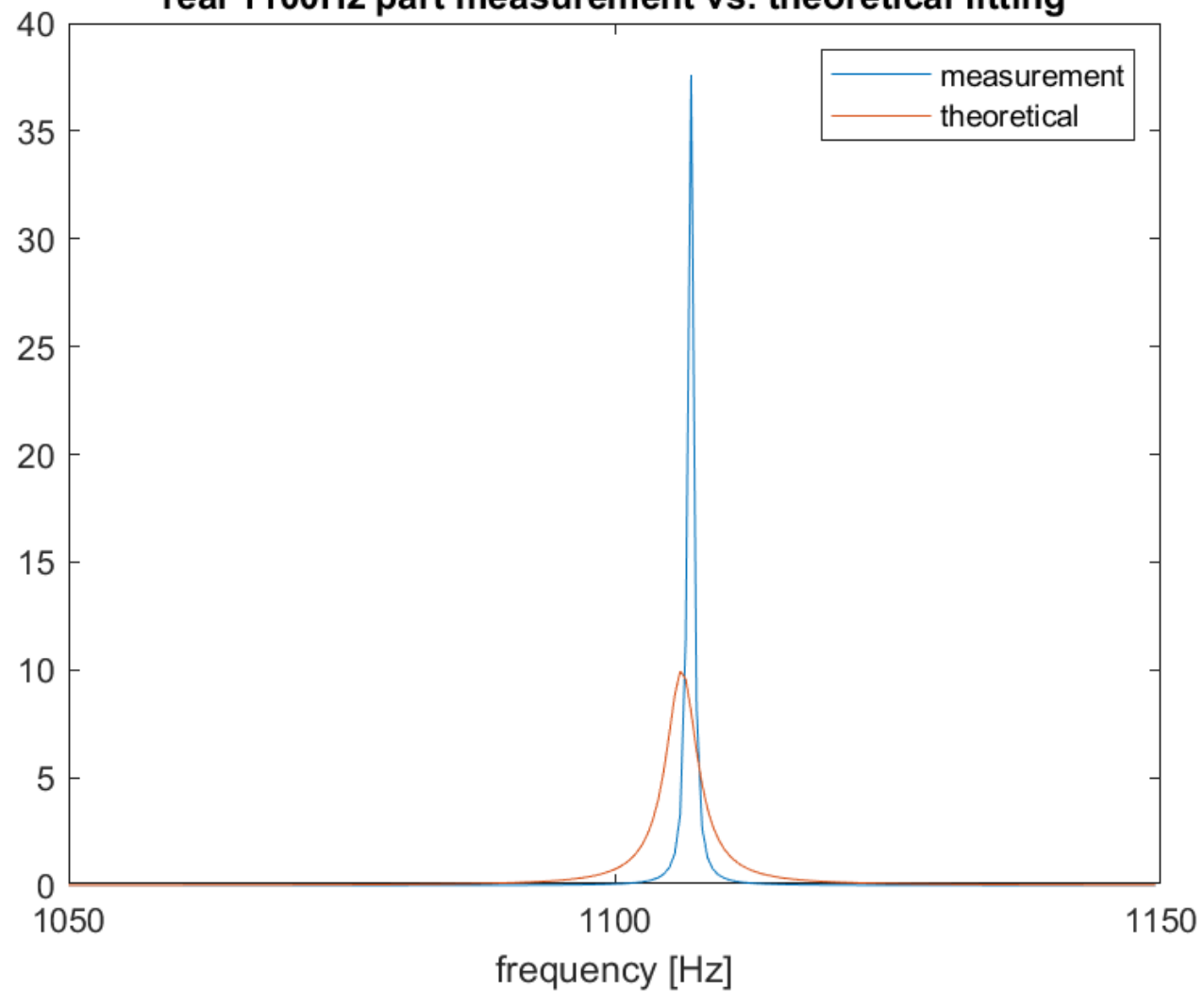


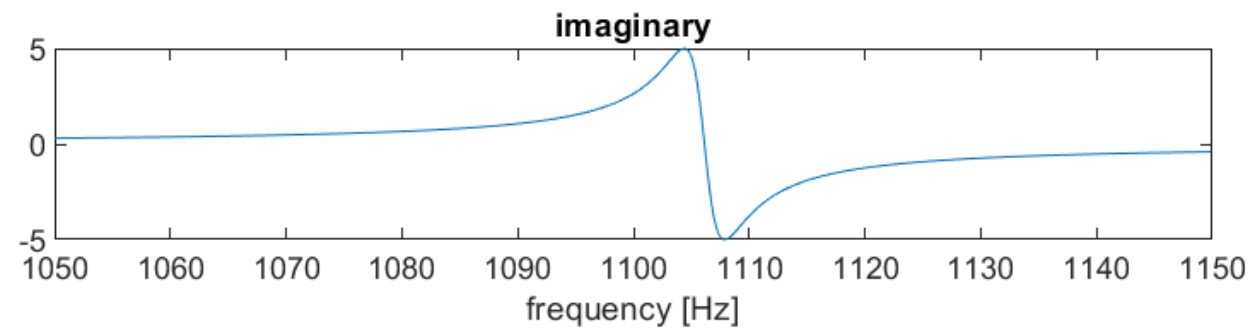
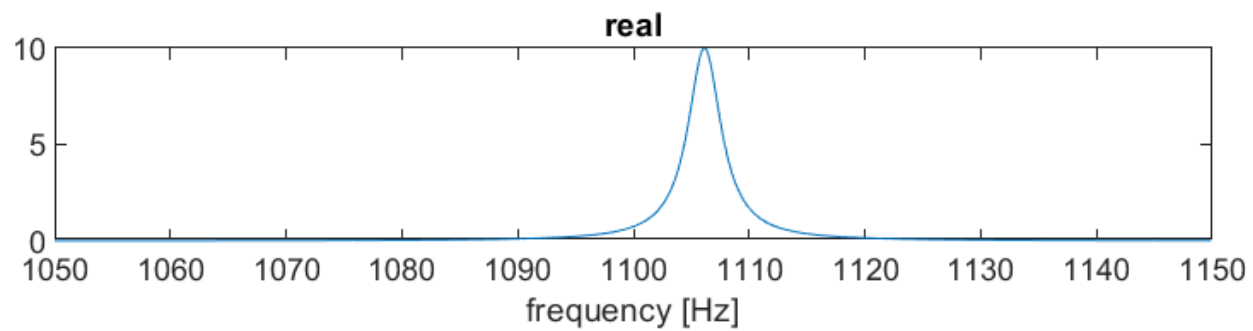
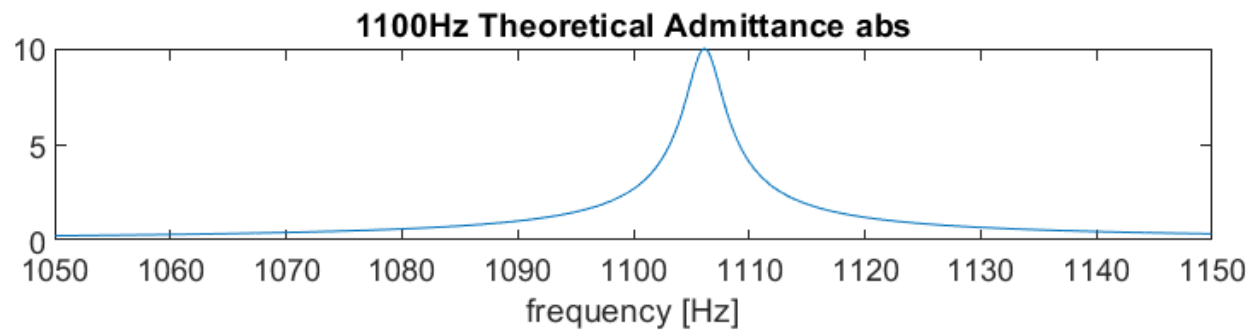


real part 1100Hz of measurement Admittance

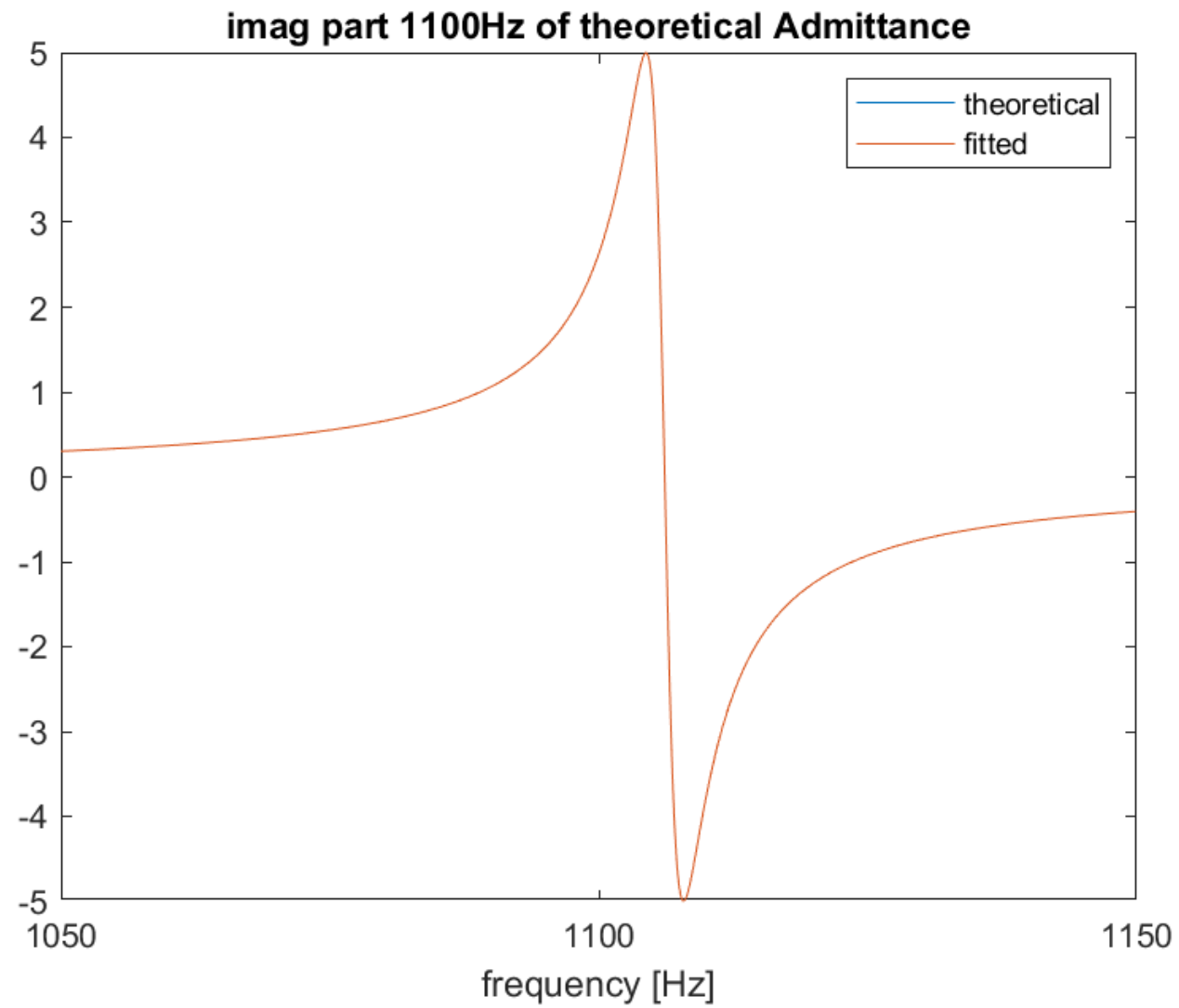


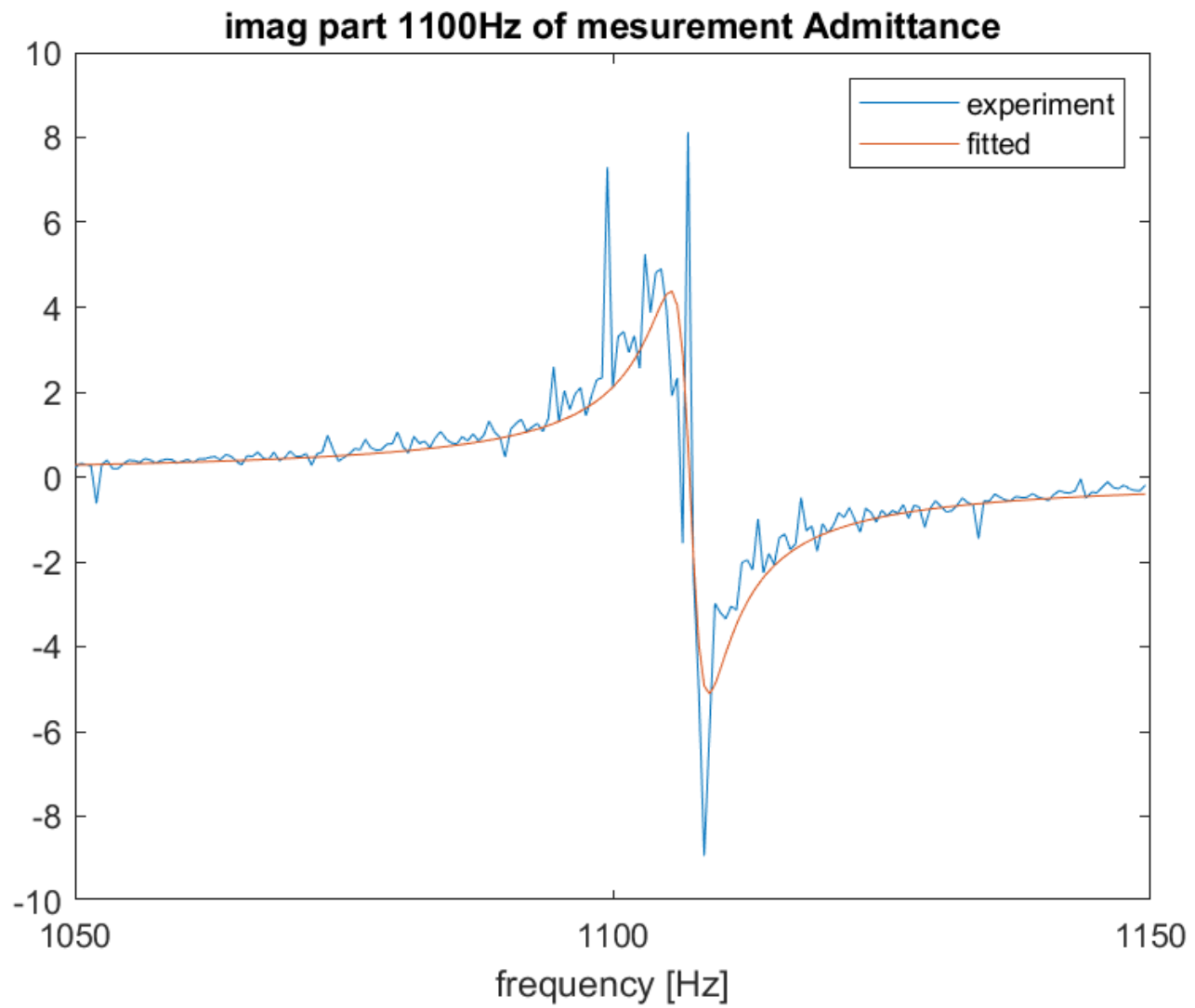
real 1100Hz part measurement vs. theoretical fitting



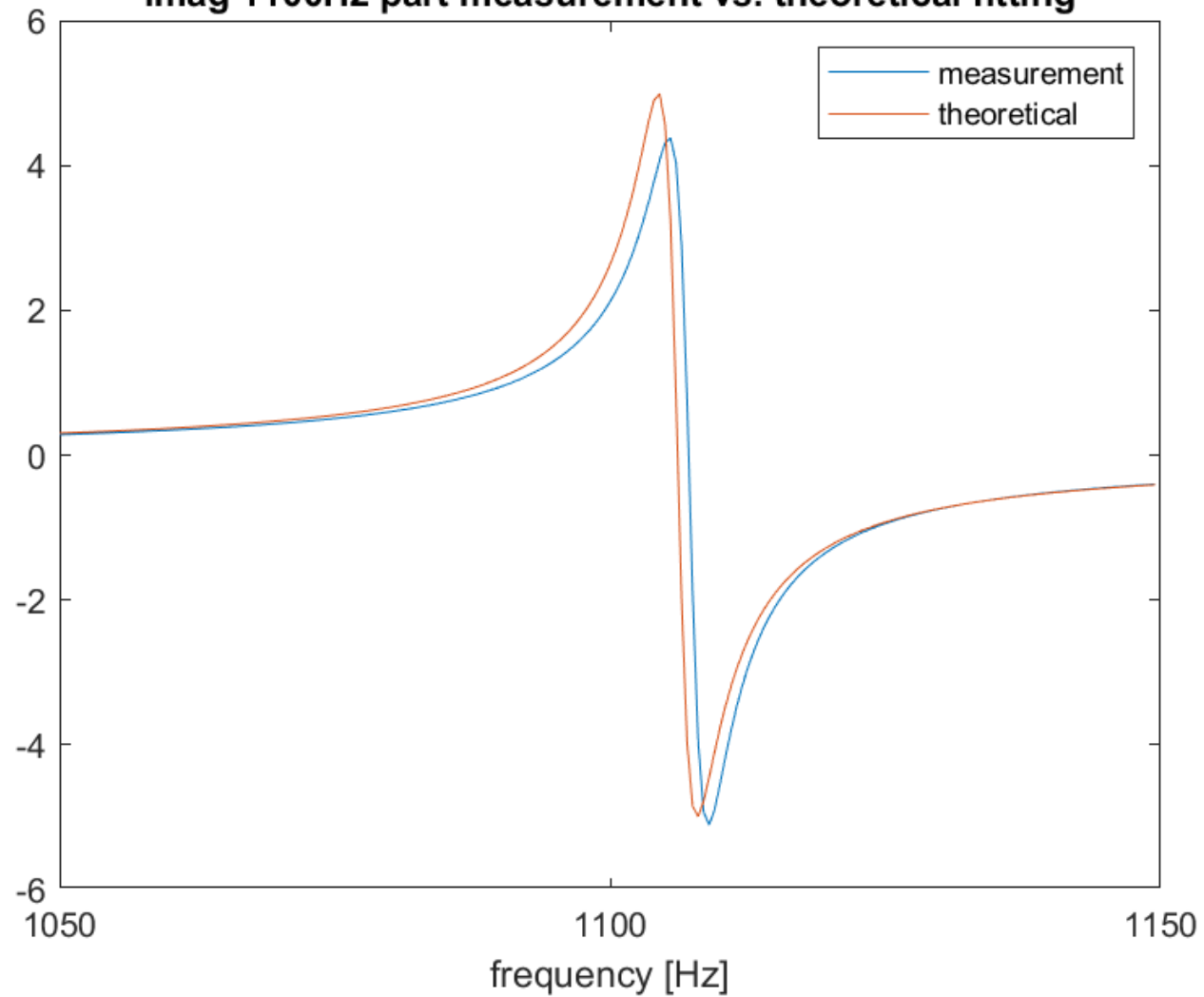


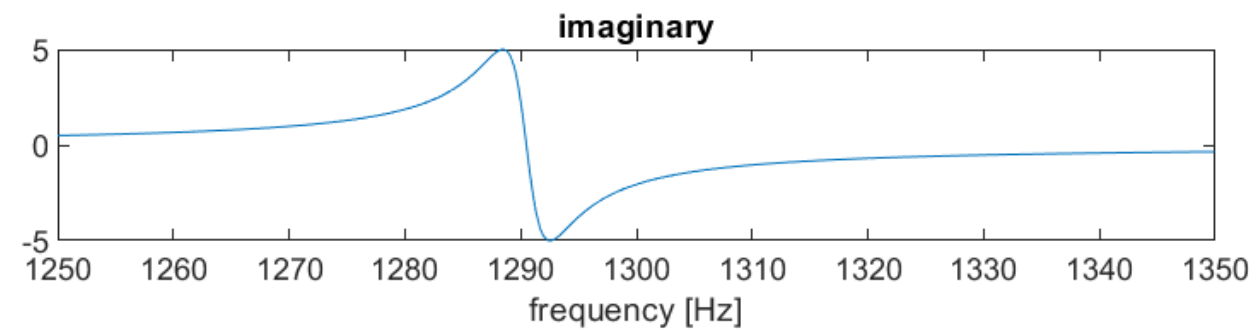
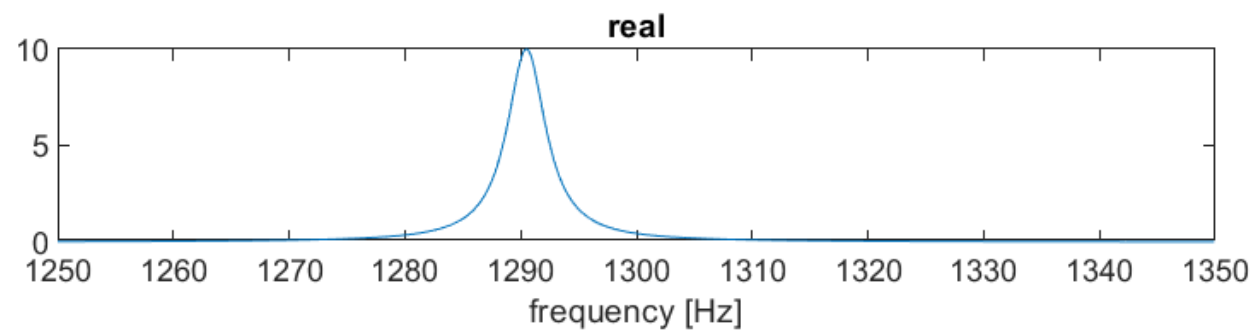
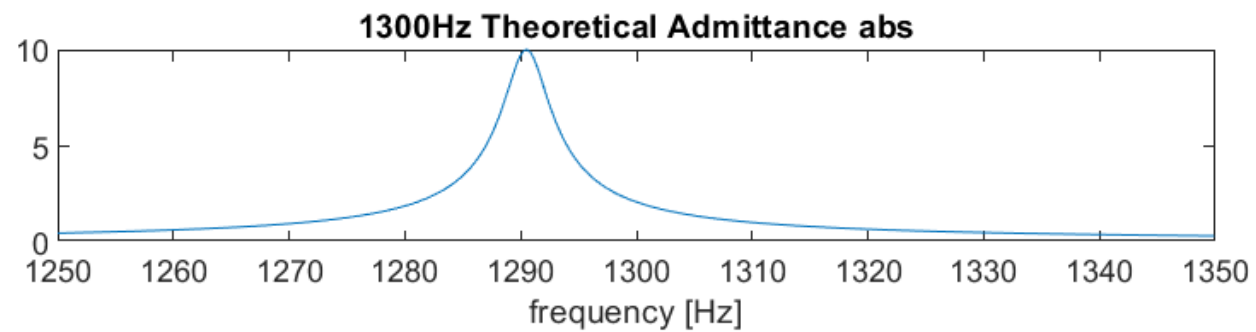


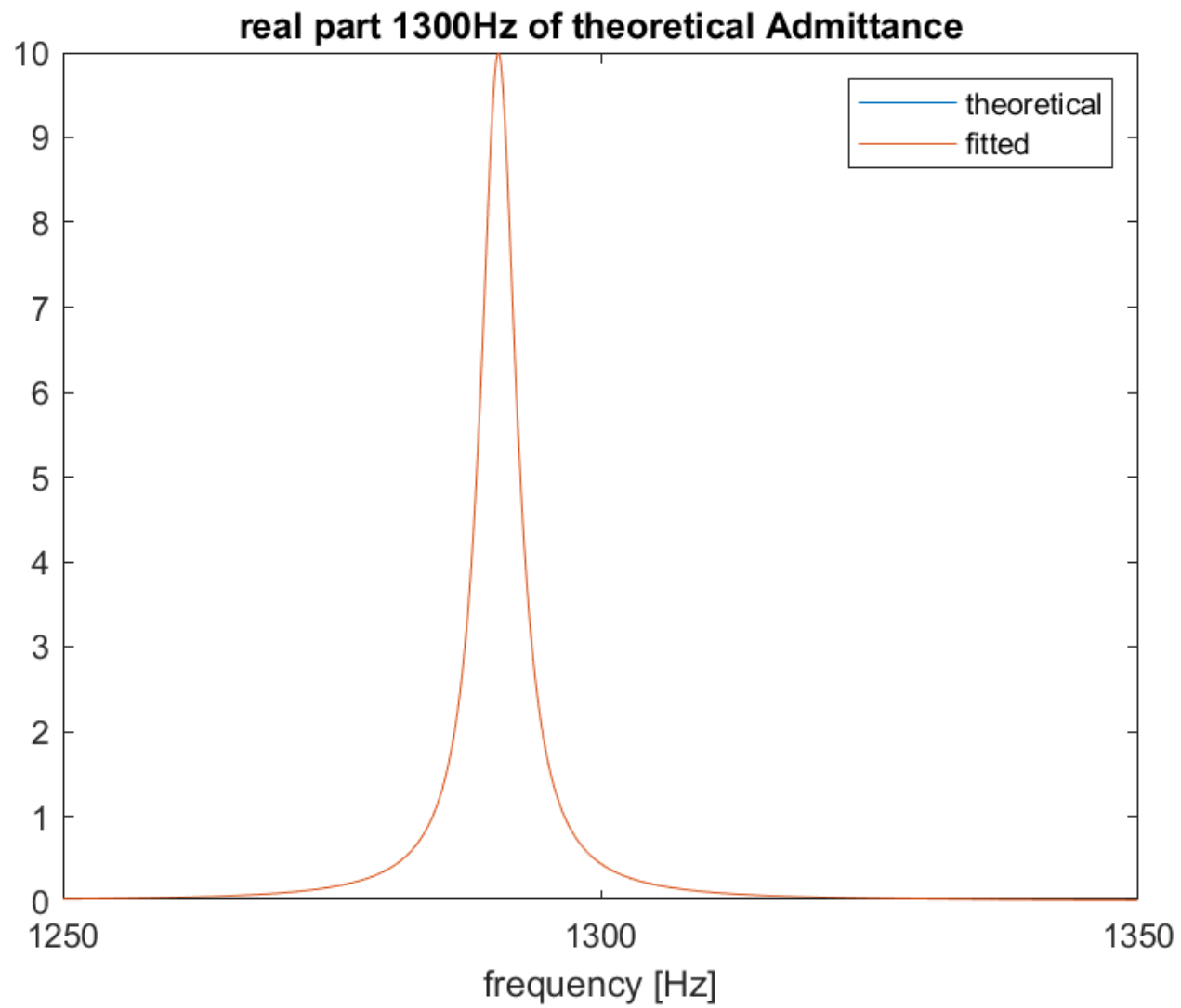


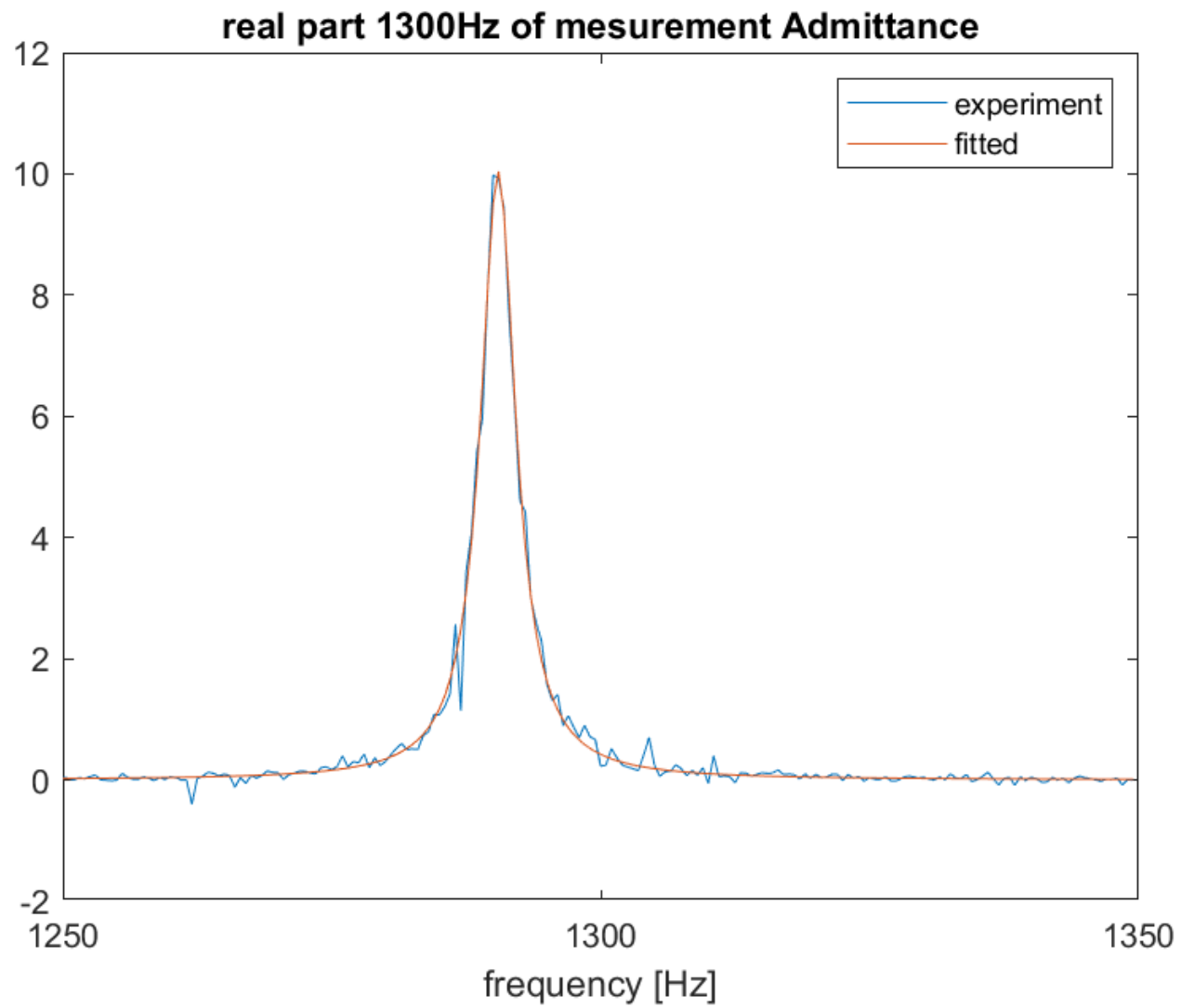


imag 1100Hz part measurement vs. theoretical fitting

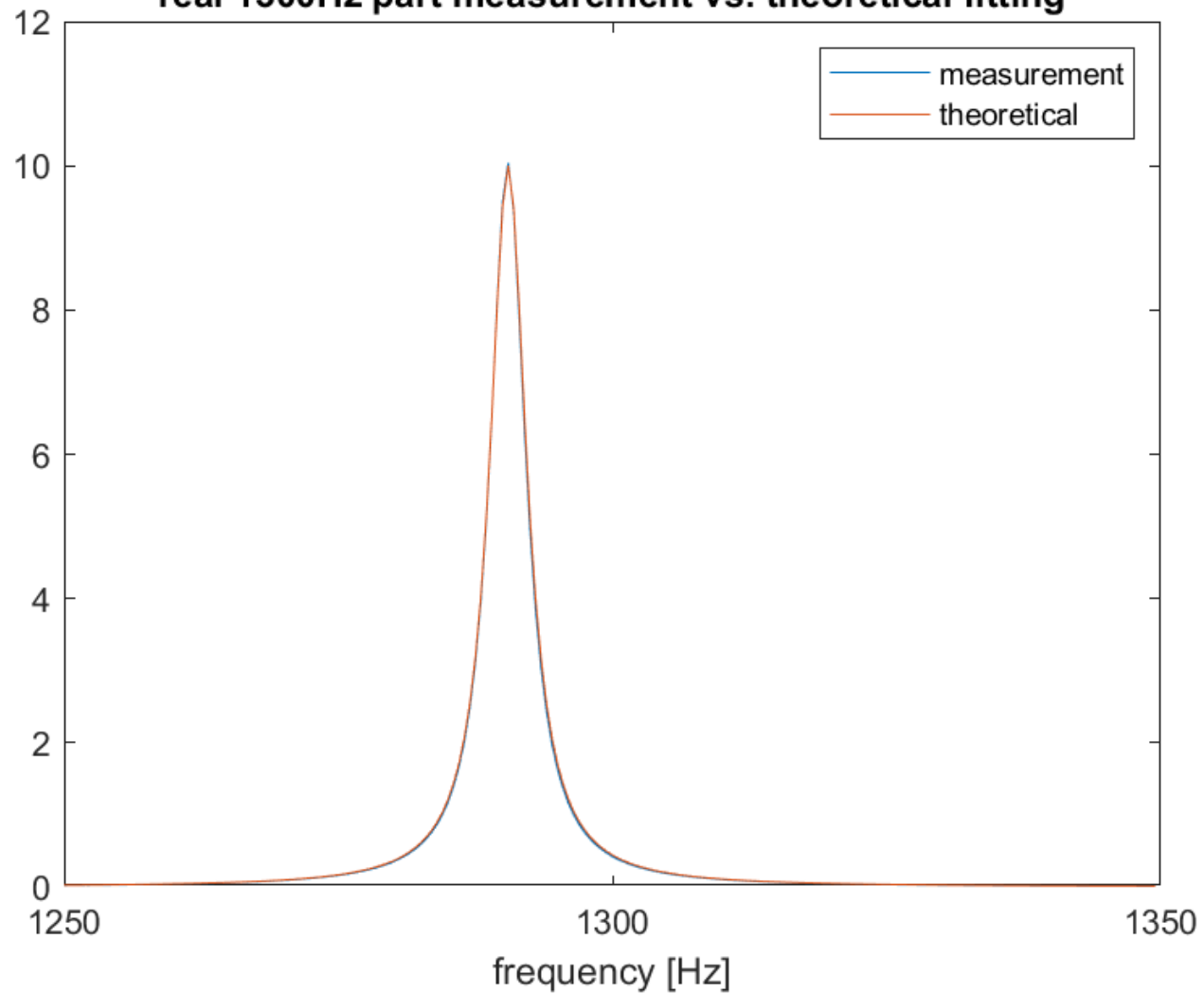


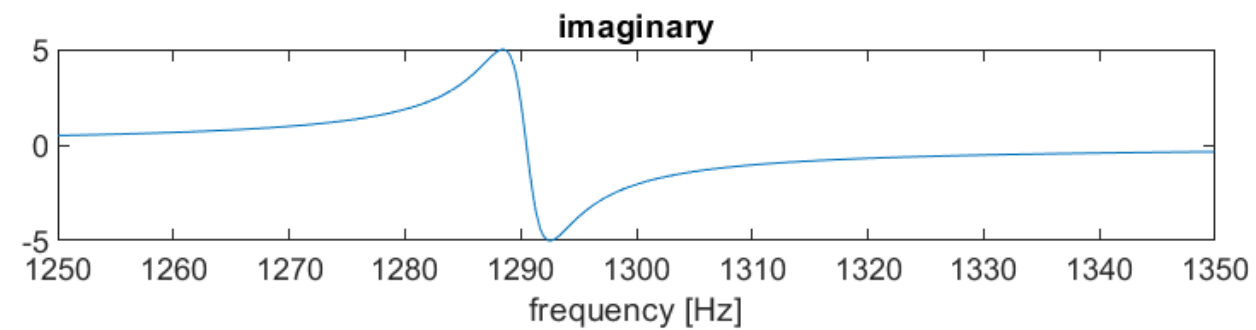
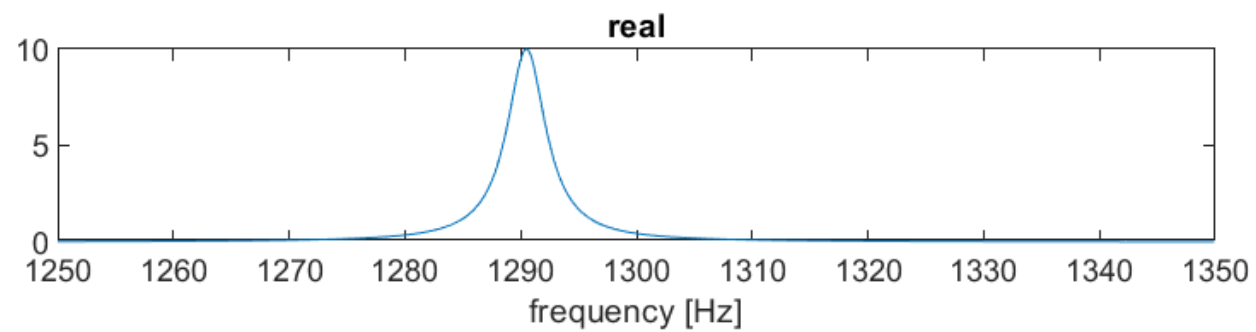
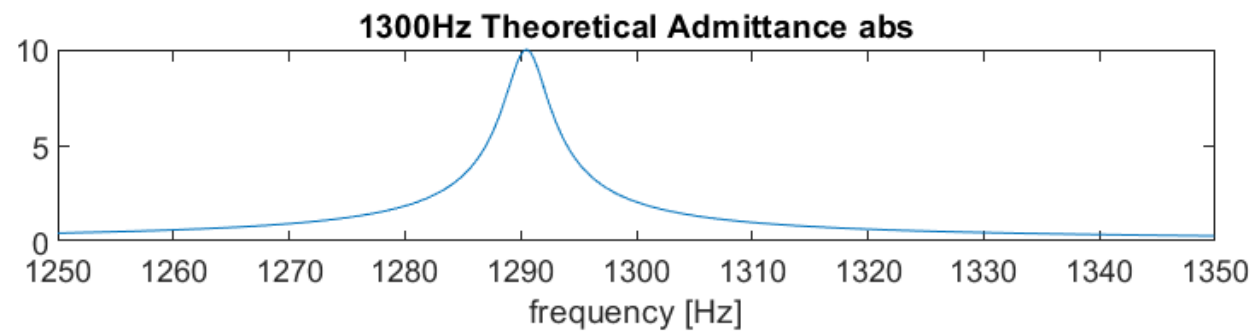




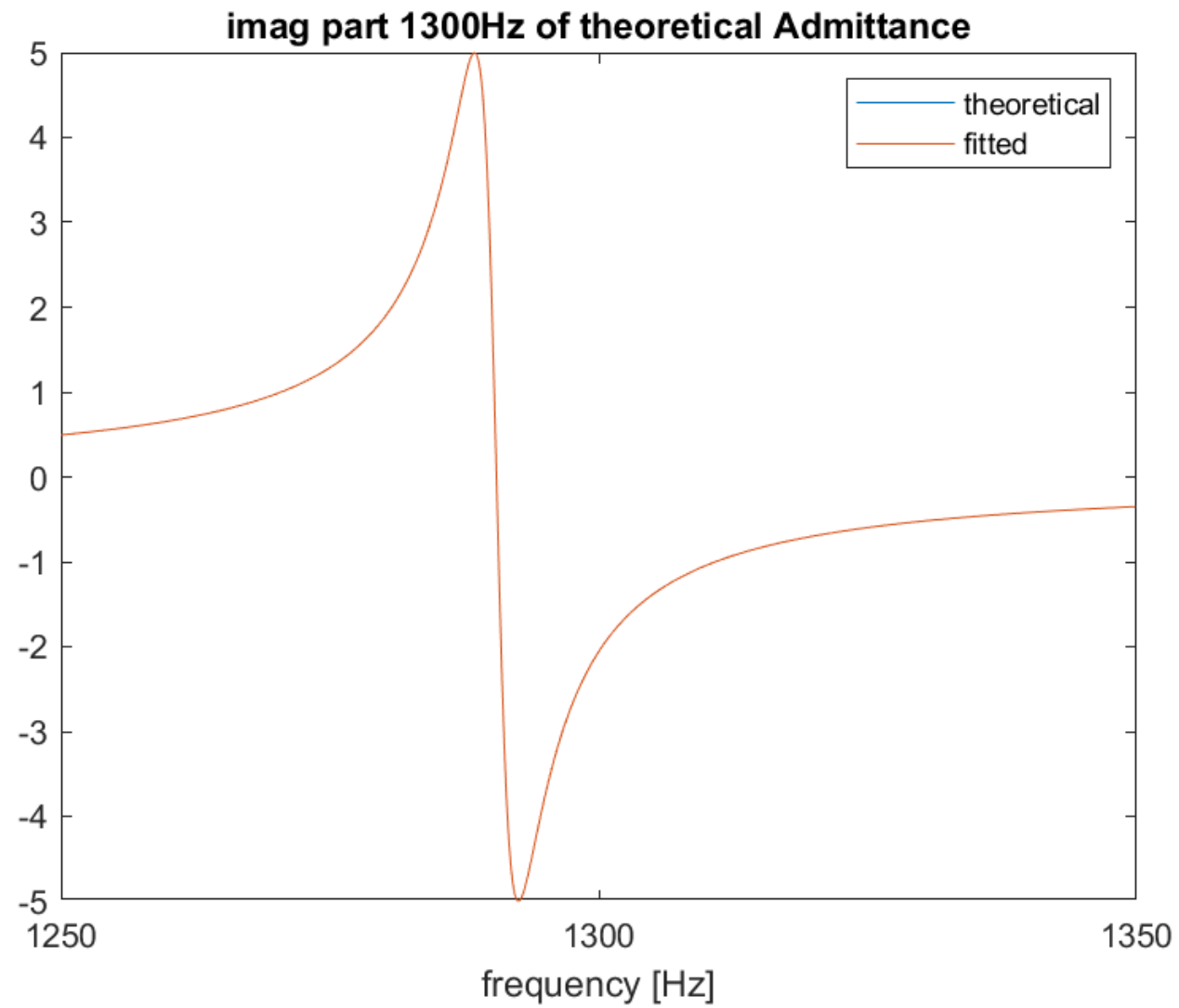


real 1300Hz part measurement vs. theoretical fitting

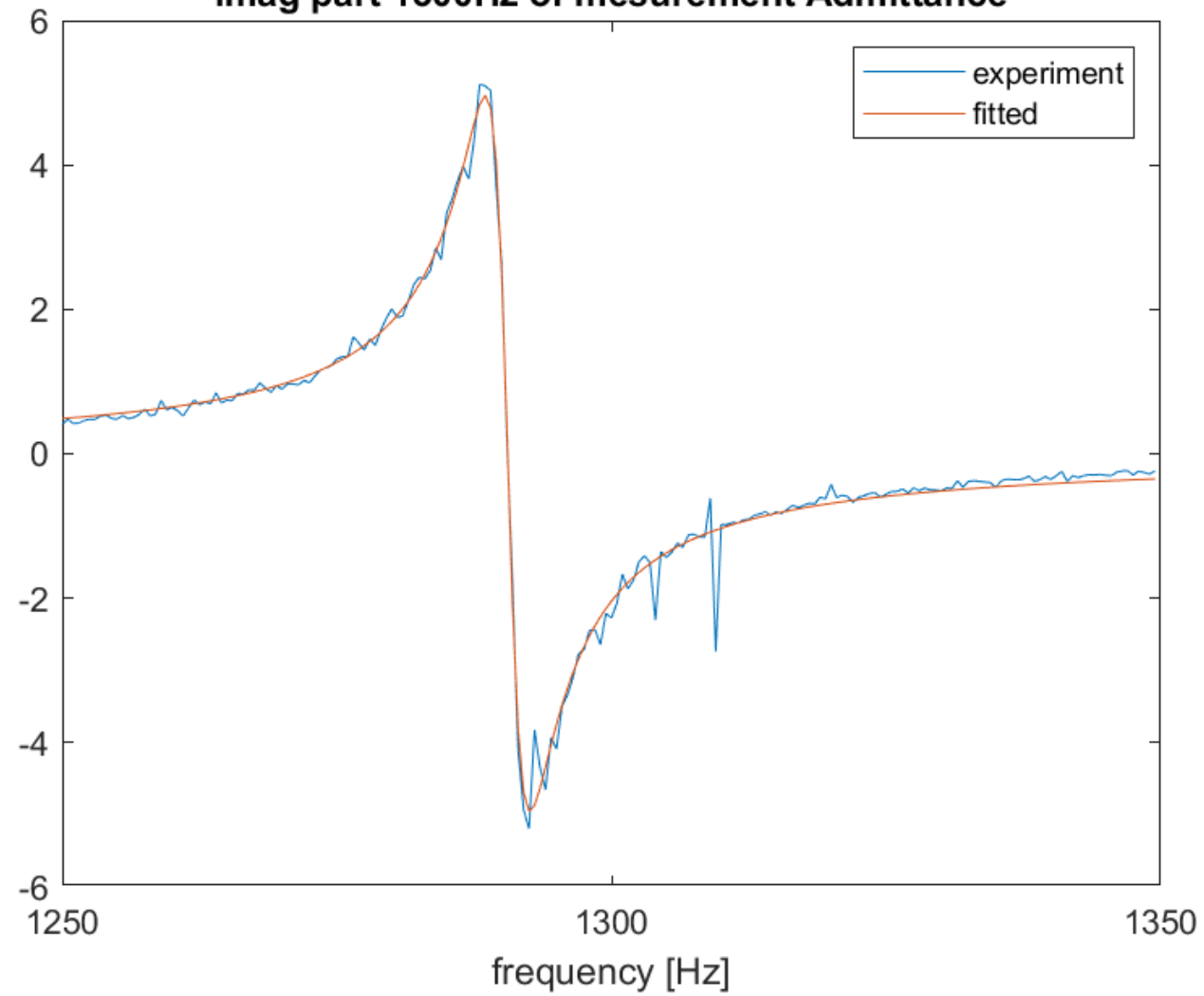




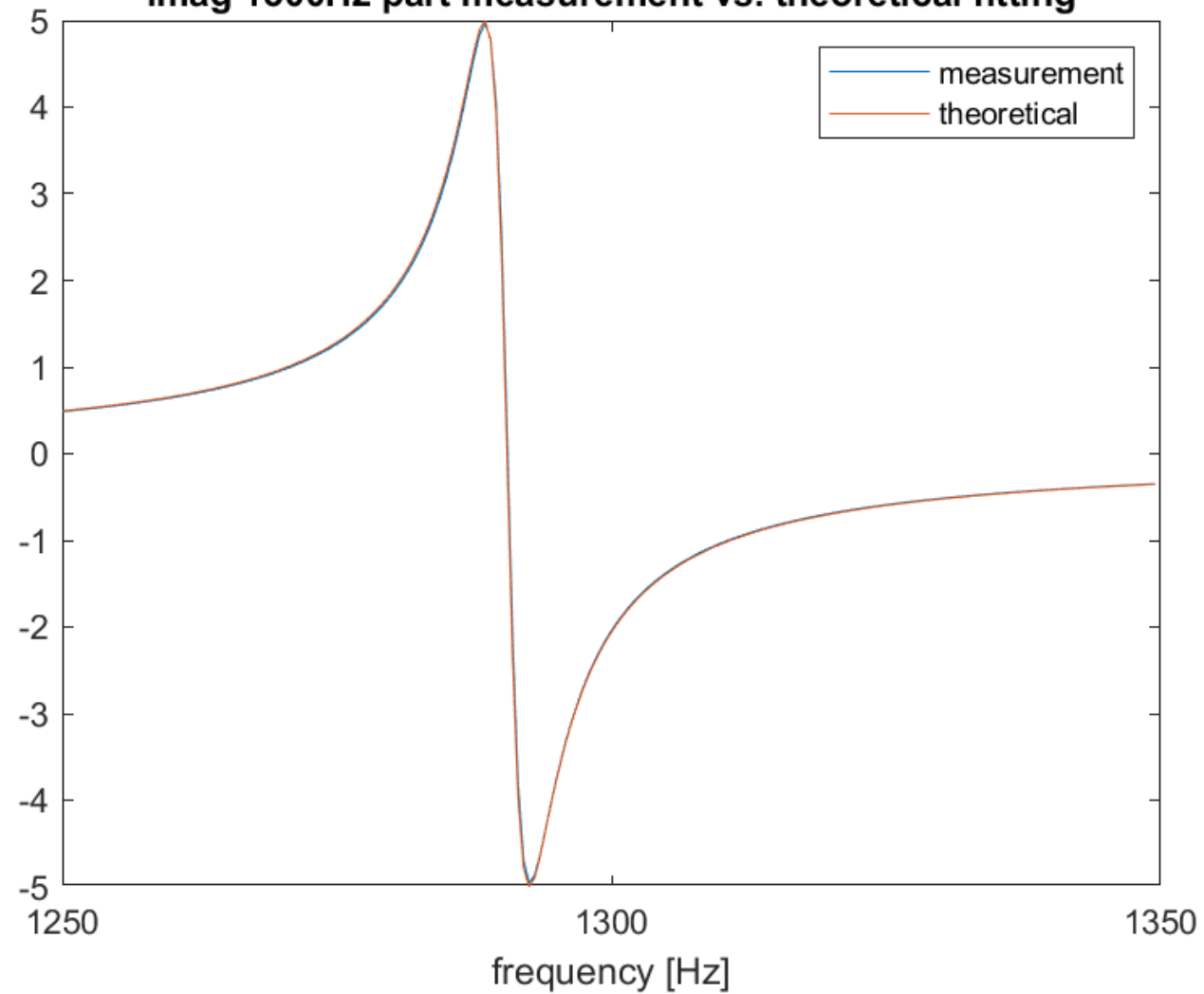


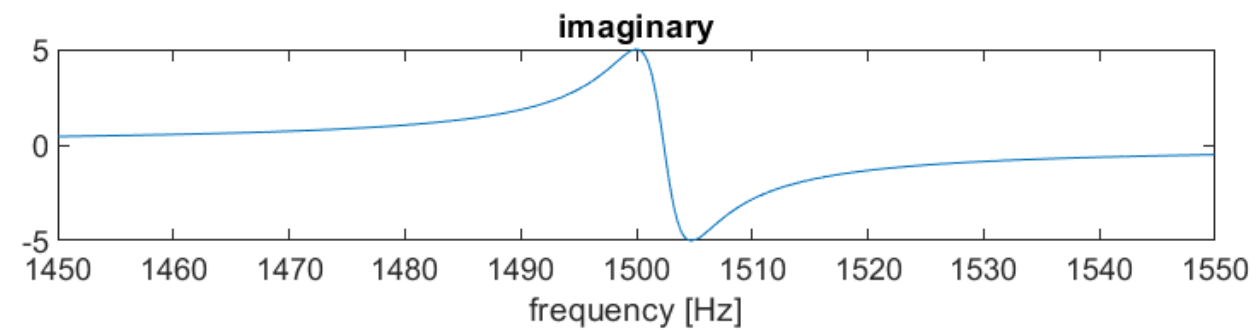
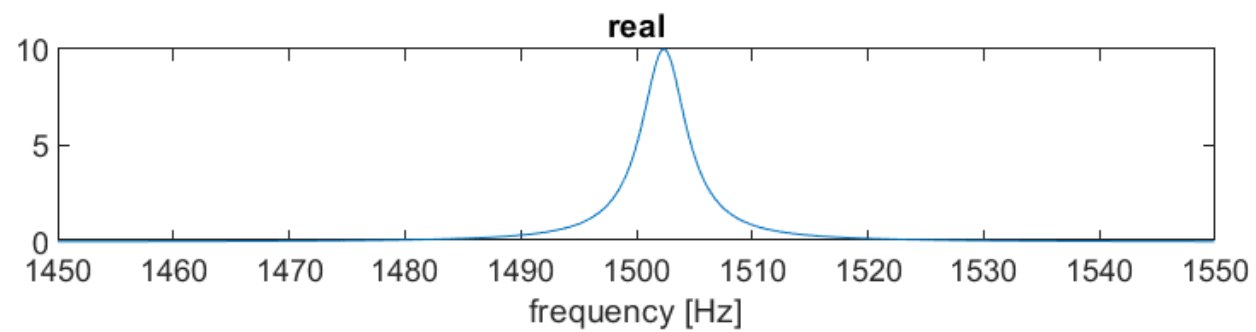
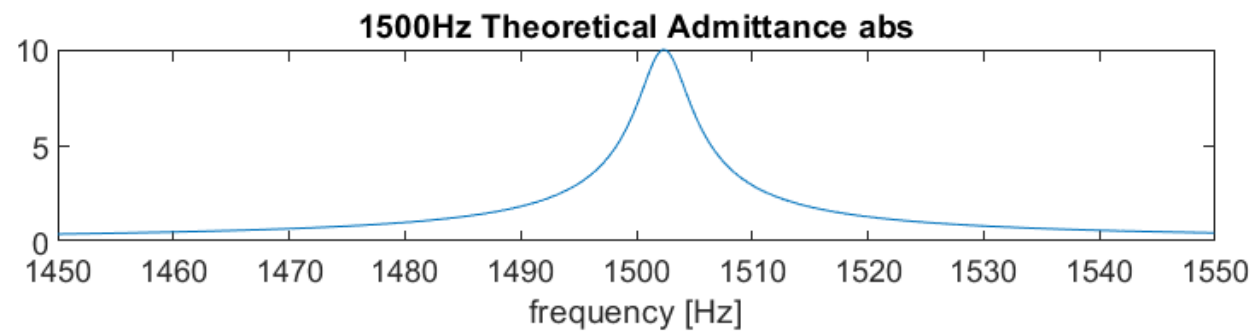


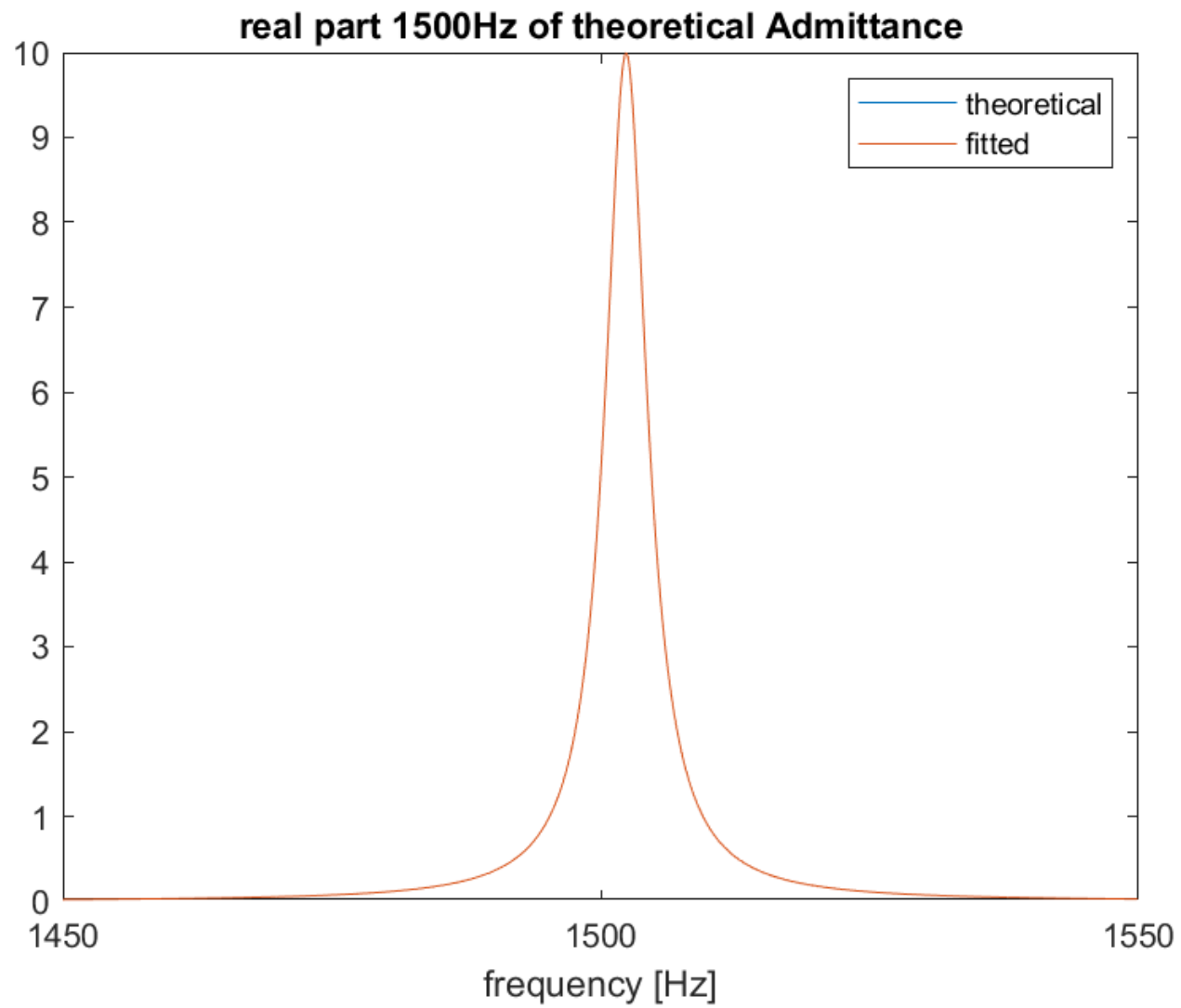
imag part 1300Hz of mesurement Admittance

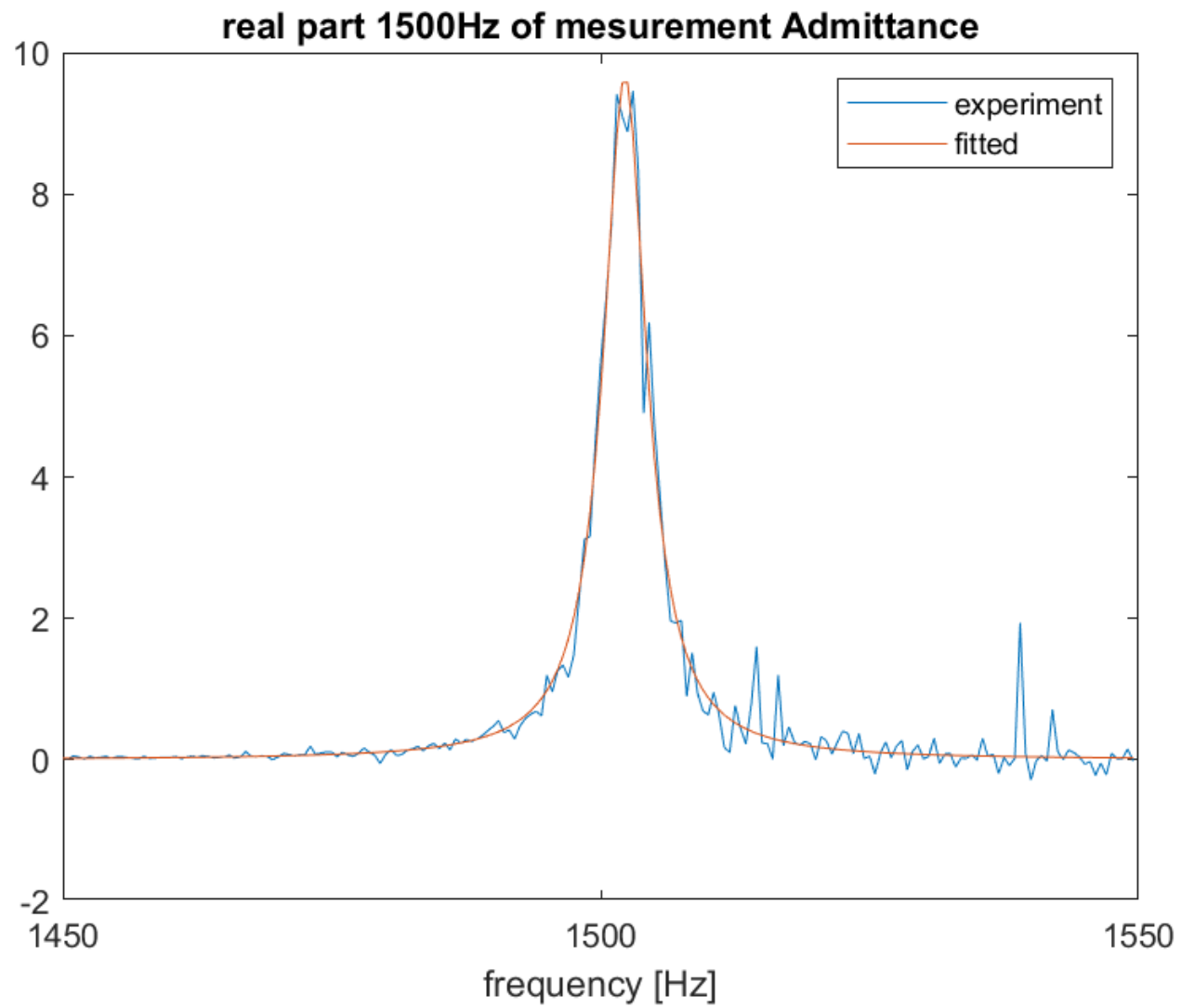


imag 1300Hz part measurement vs. theoretical fitting

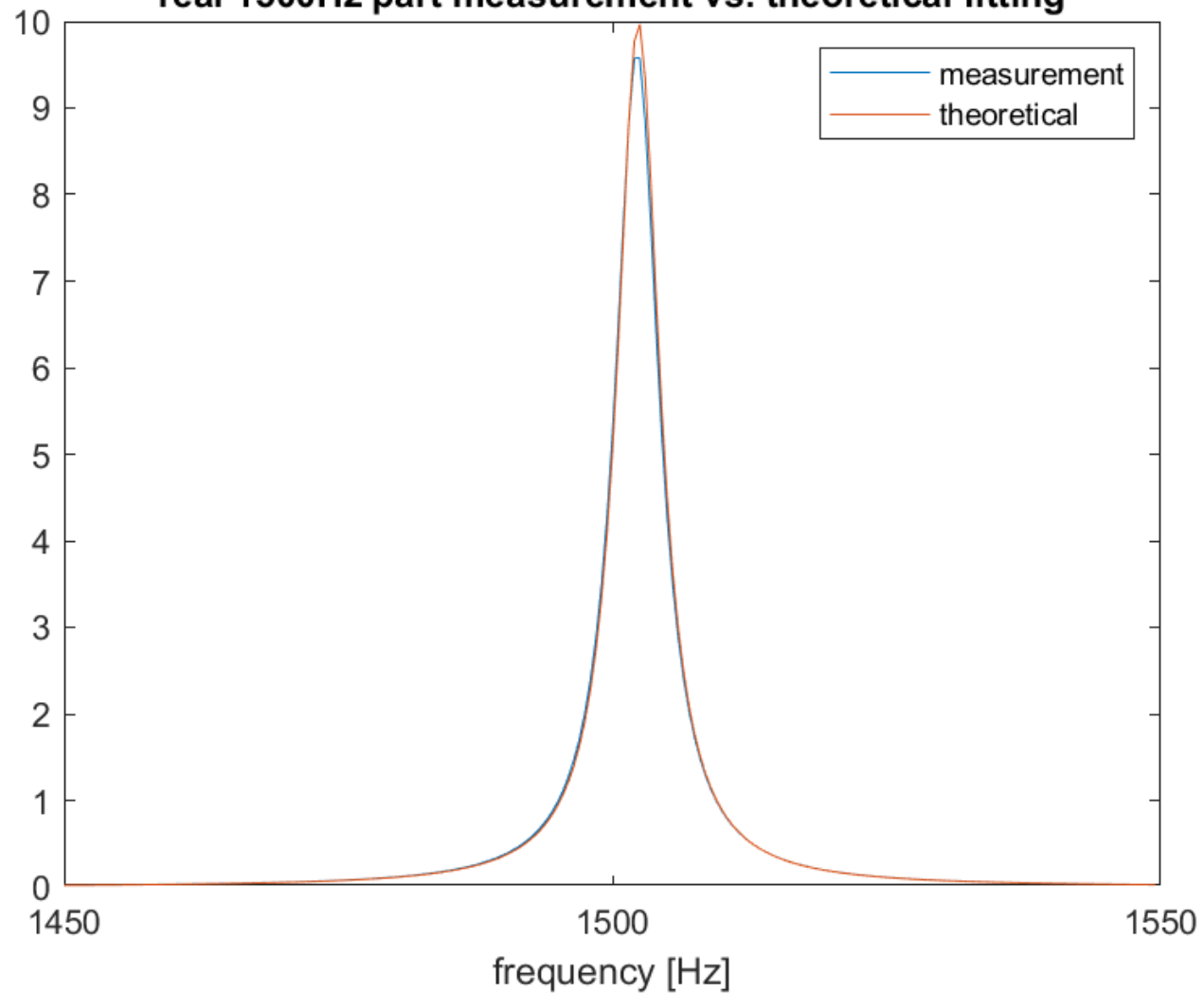


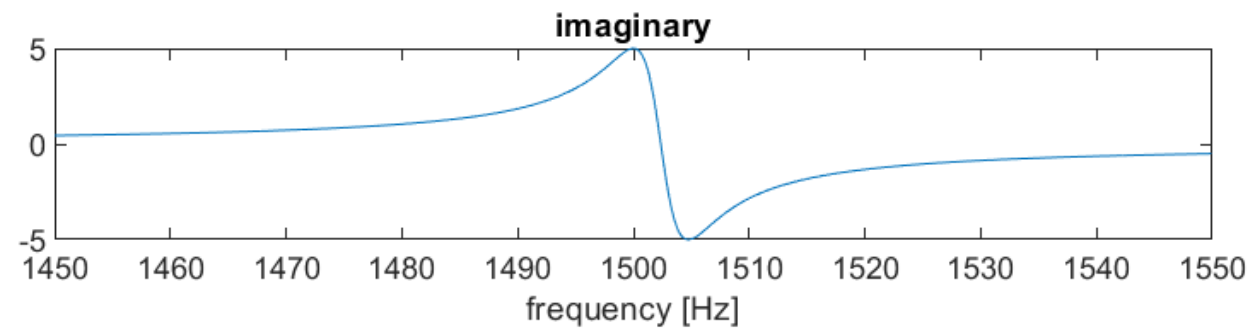
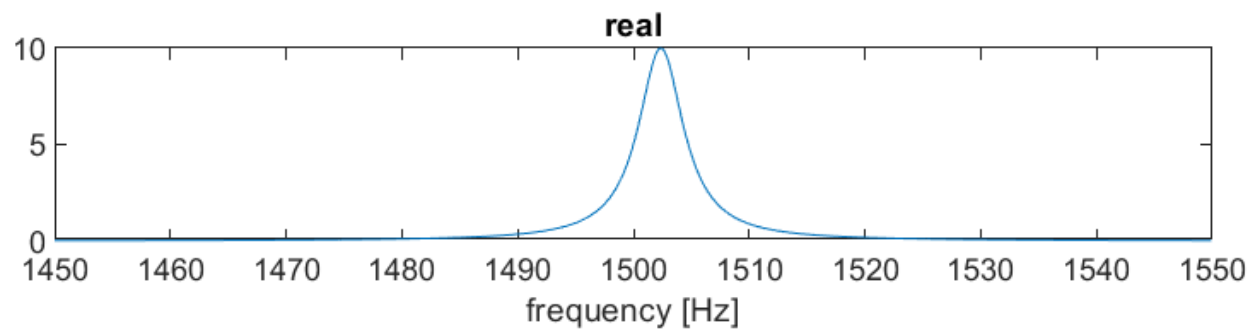
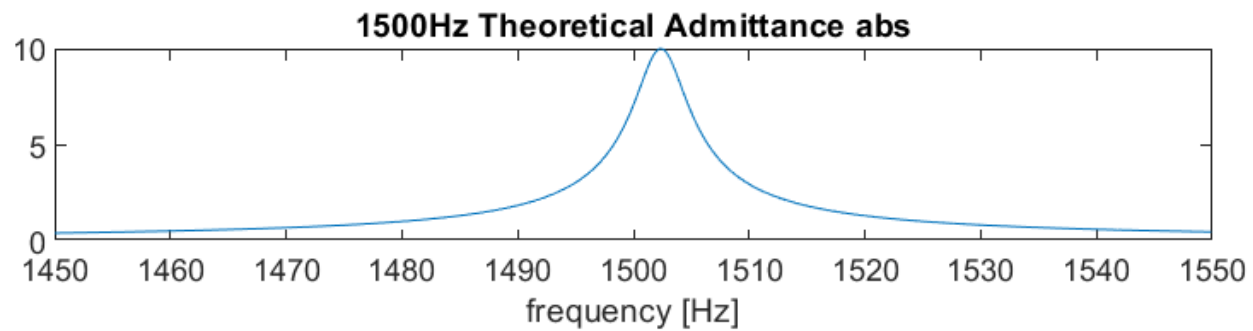




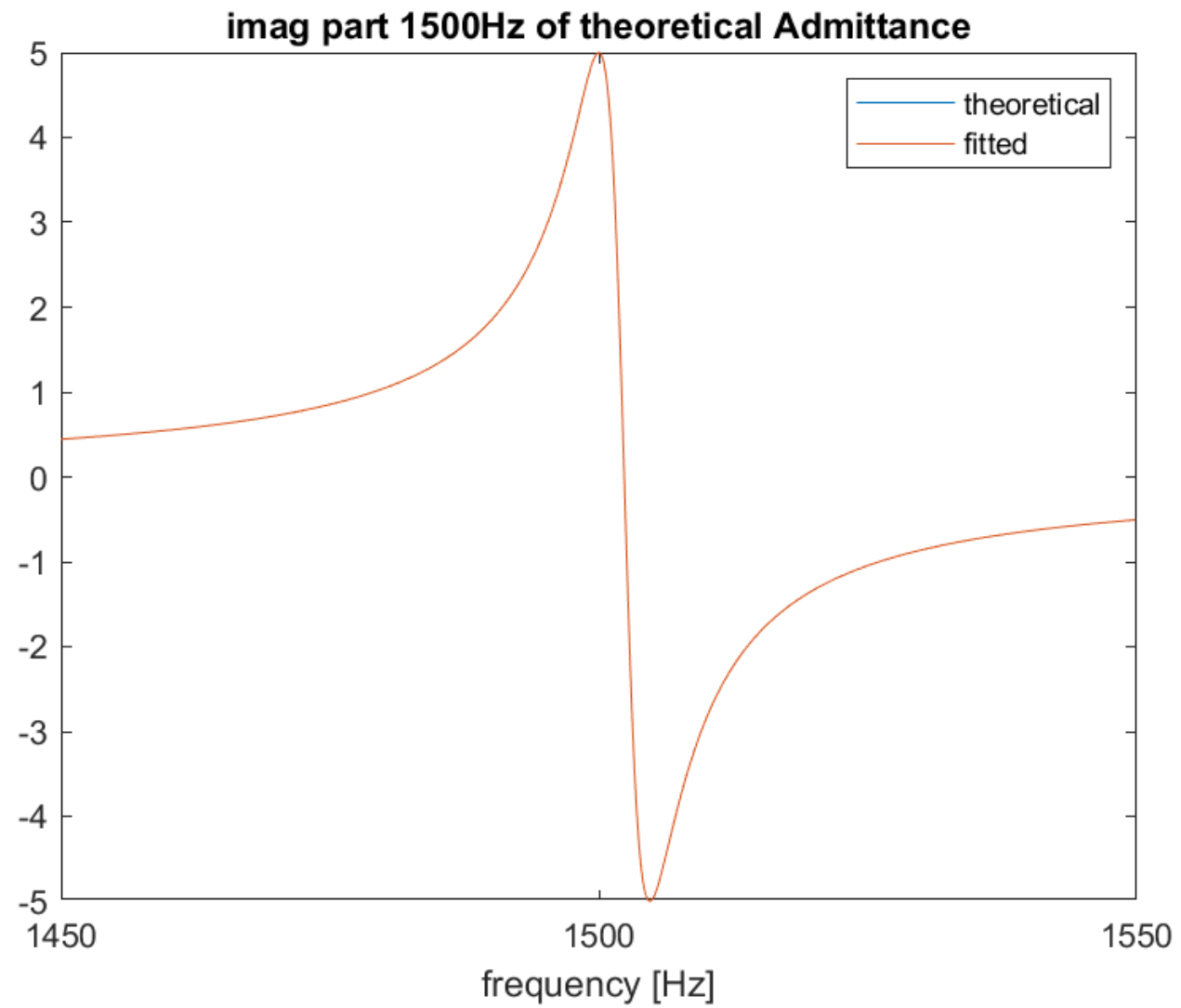


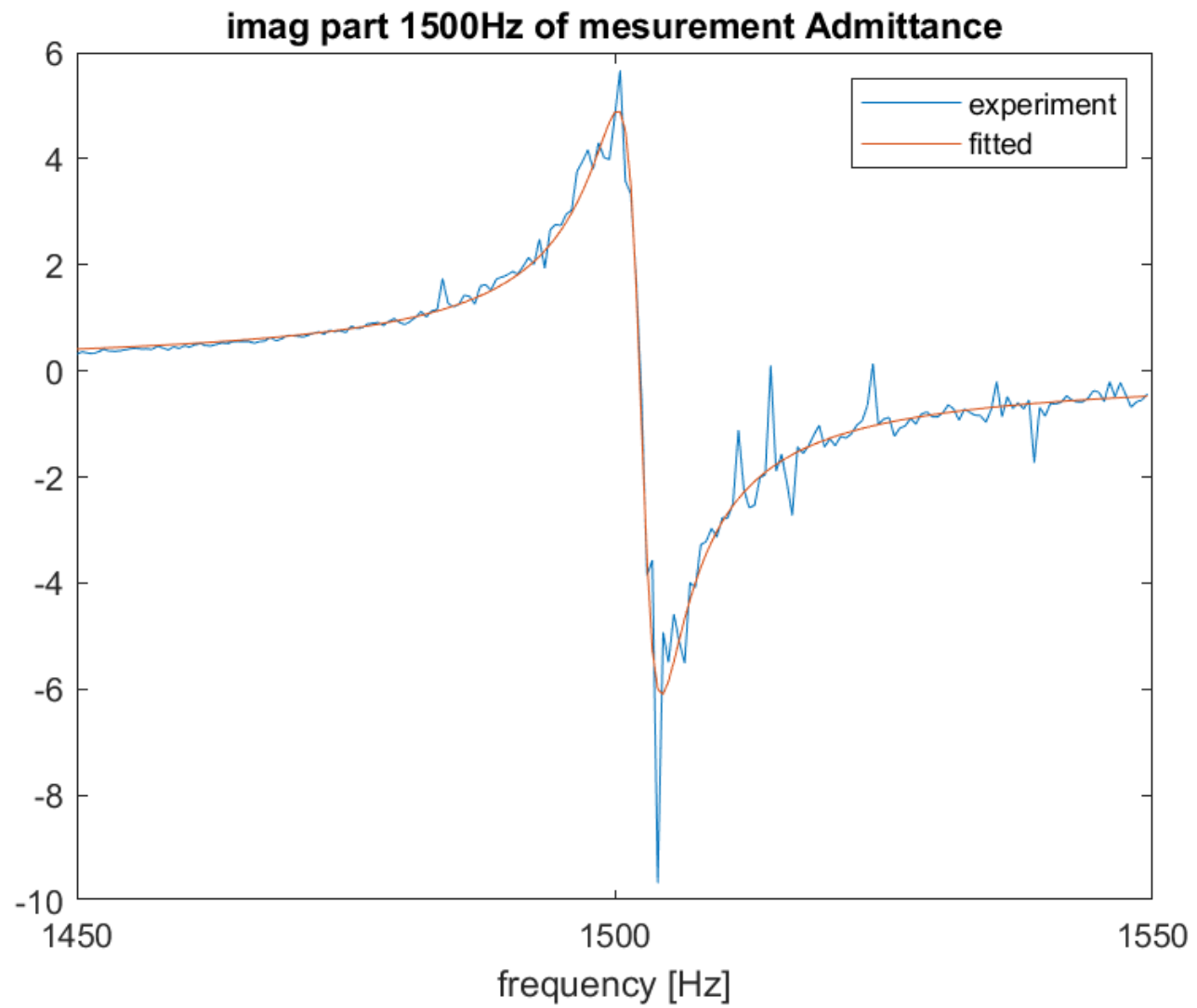
real 1500Hz part measurement vs. theoretical fitting



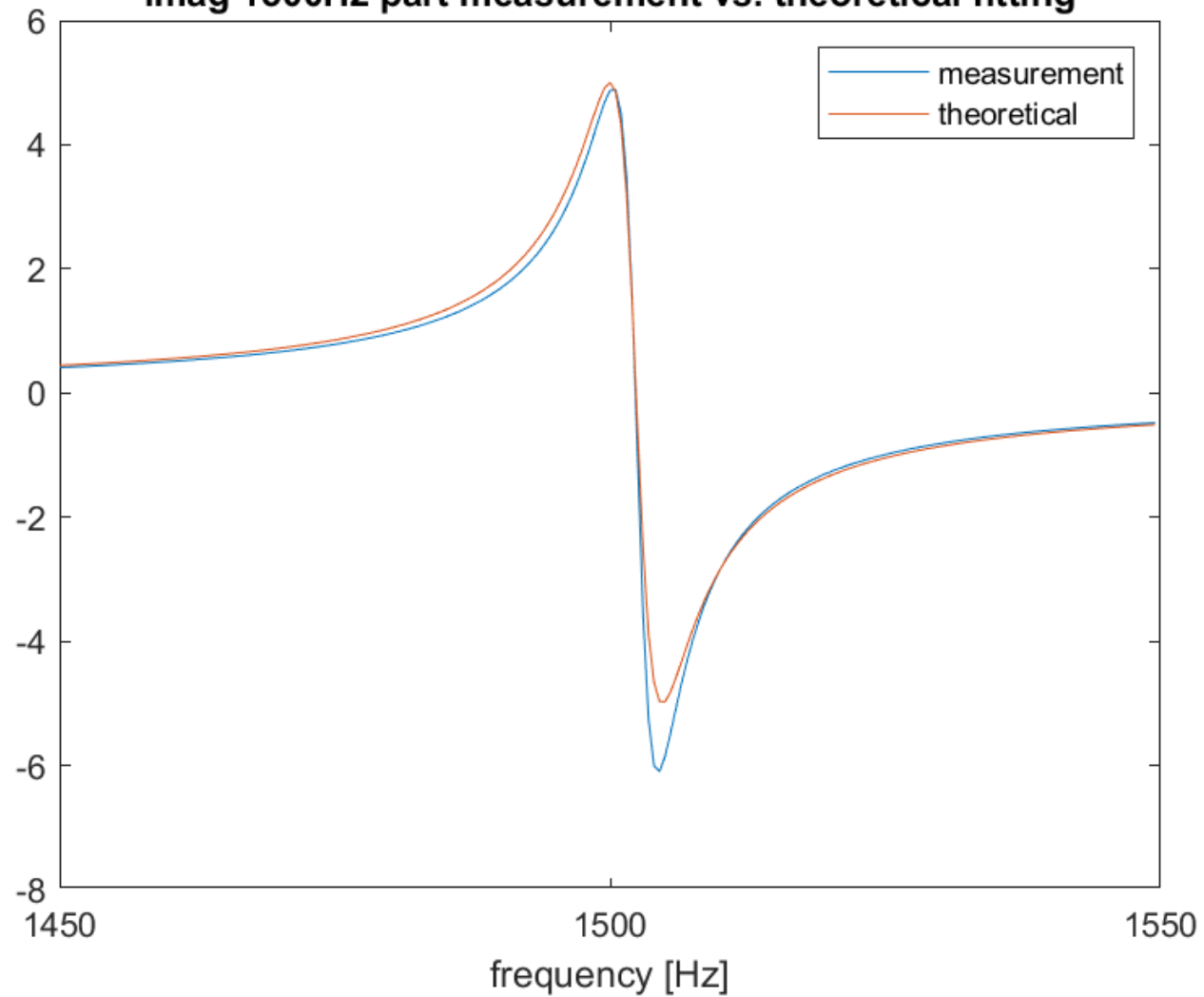


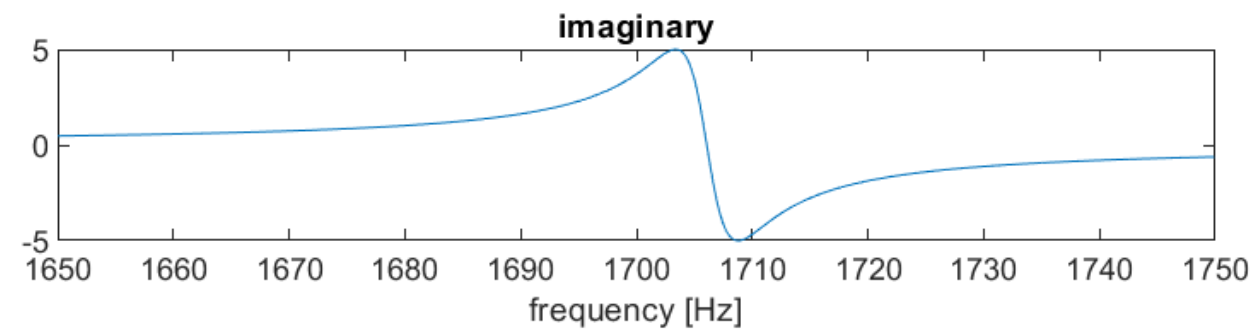
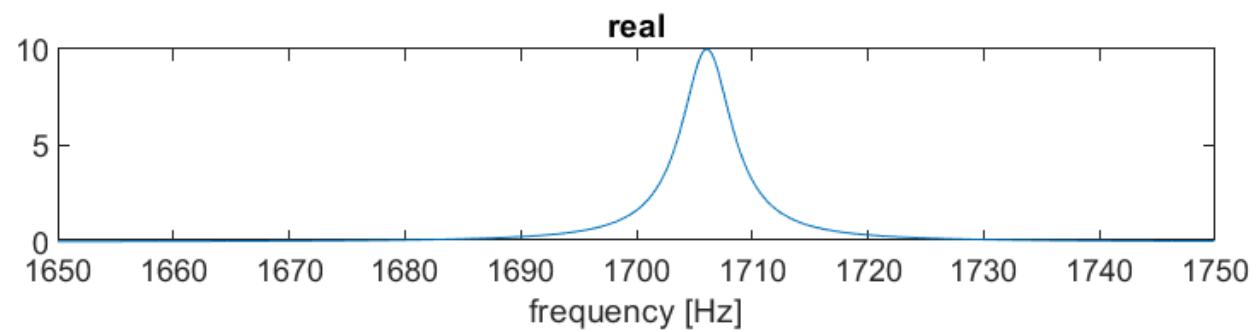
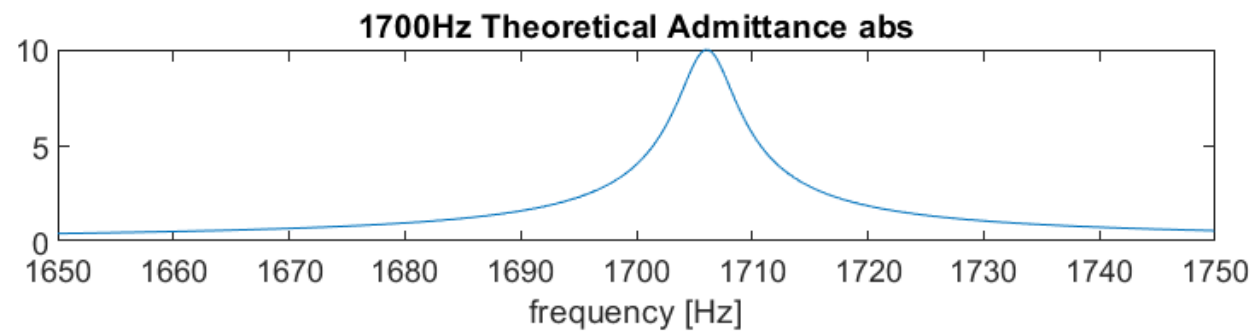


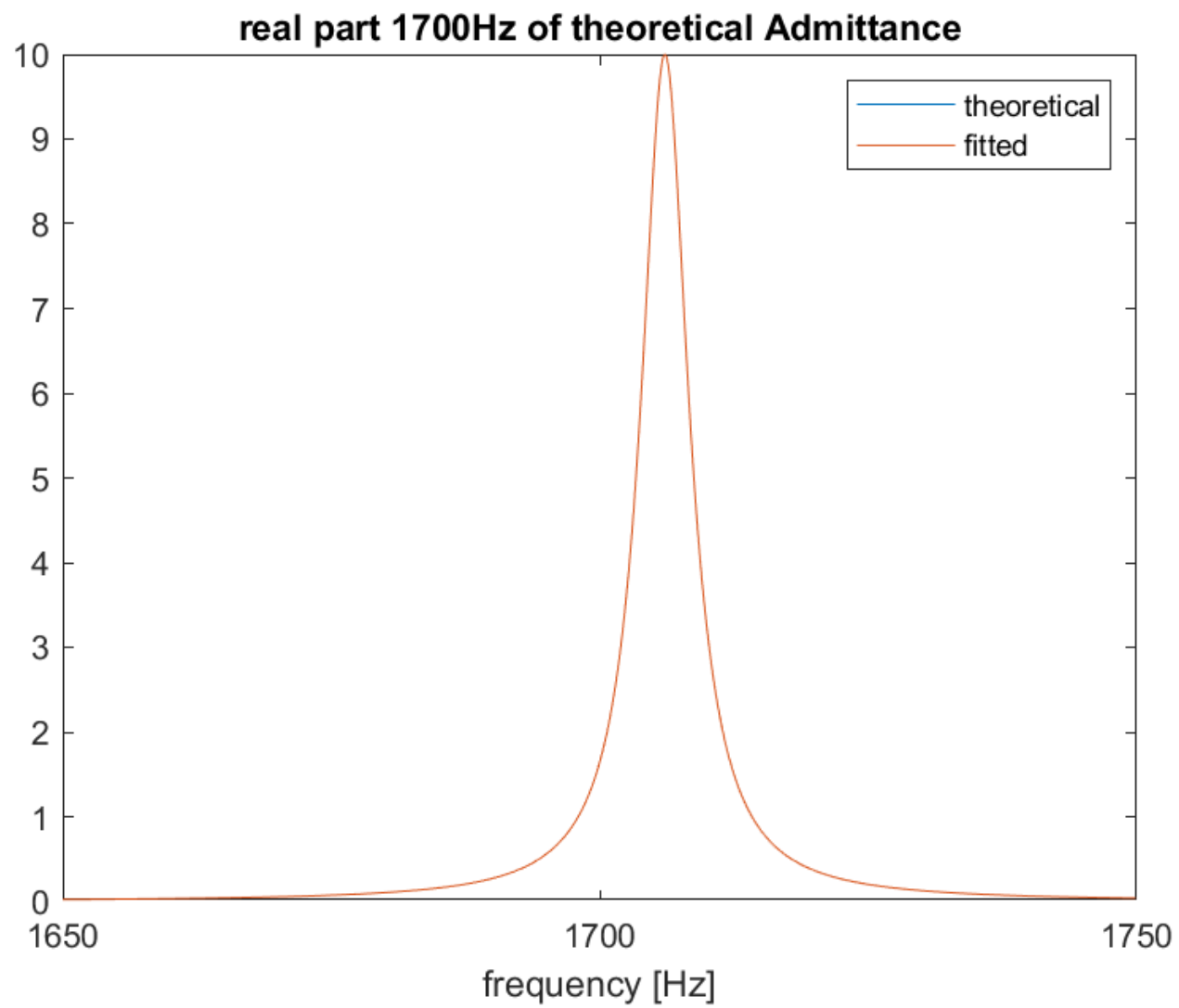




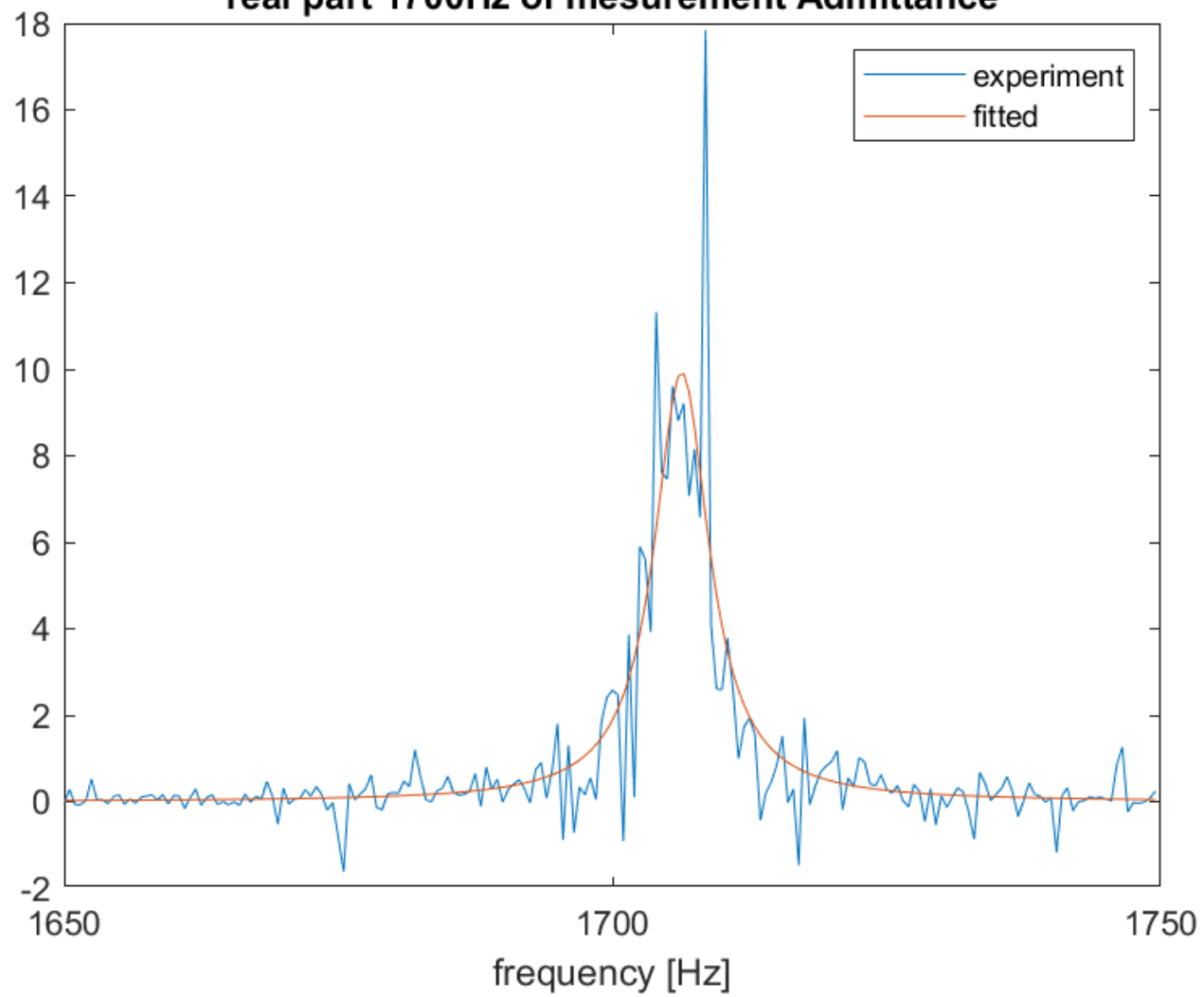
imag 1500Hz part measurement vs. theoretical fitting



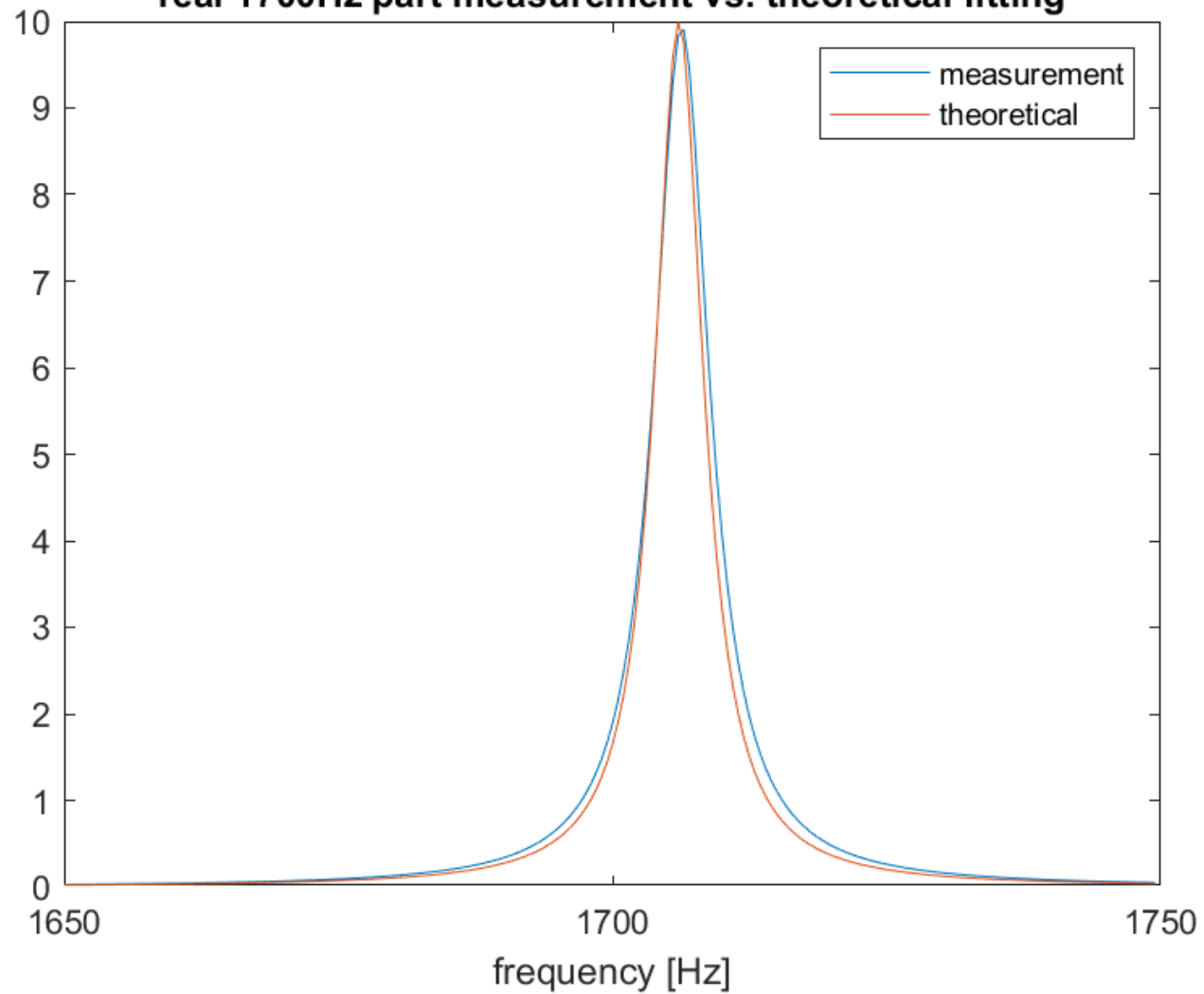


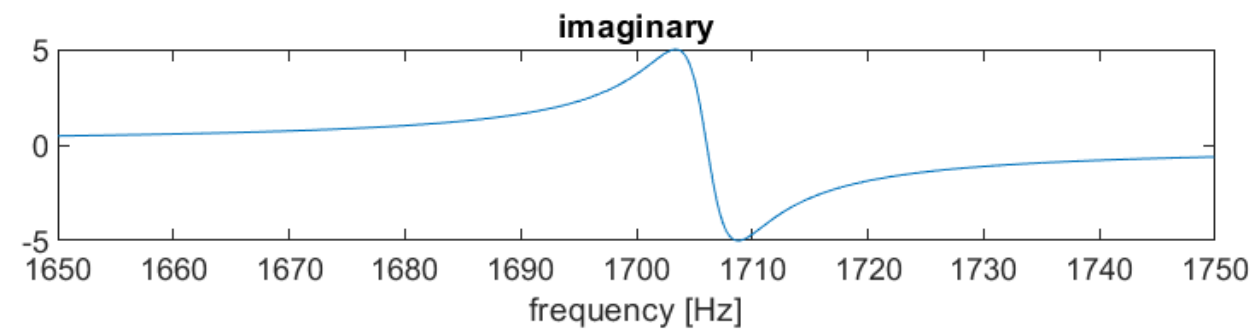
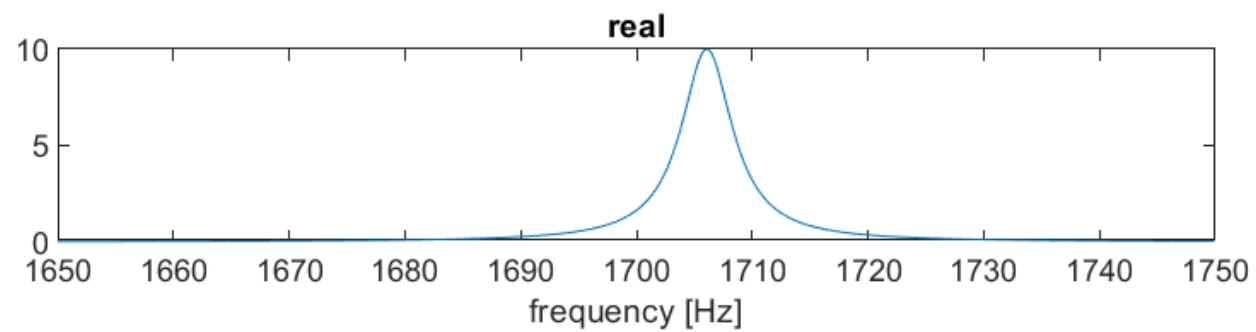
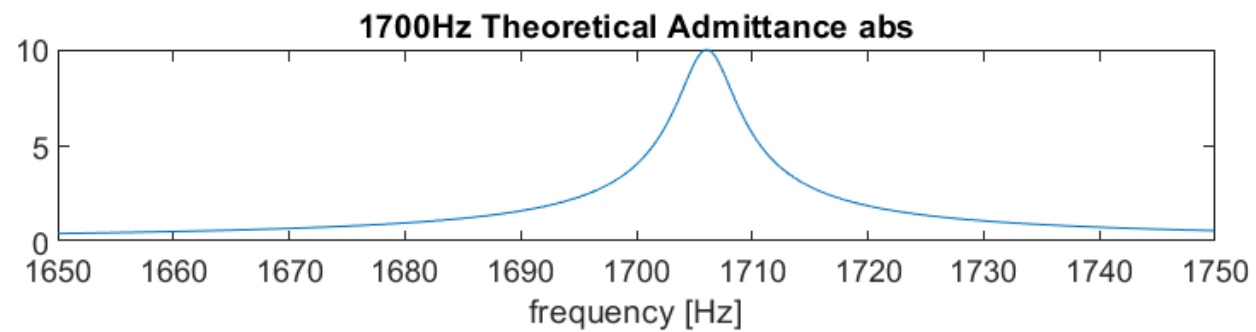


real part 1700Hz of measurement Admittance

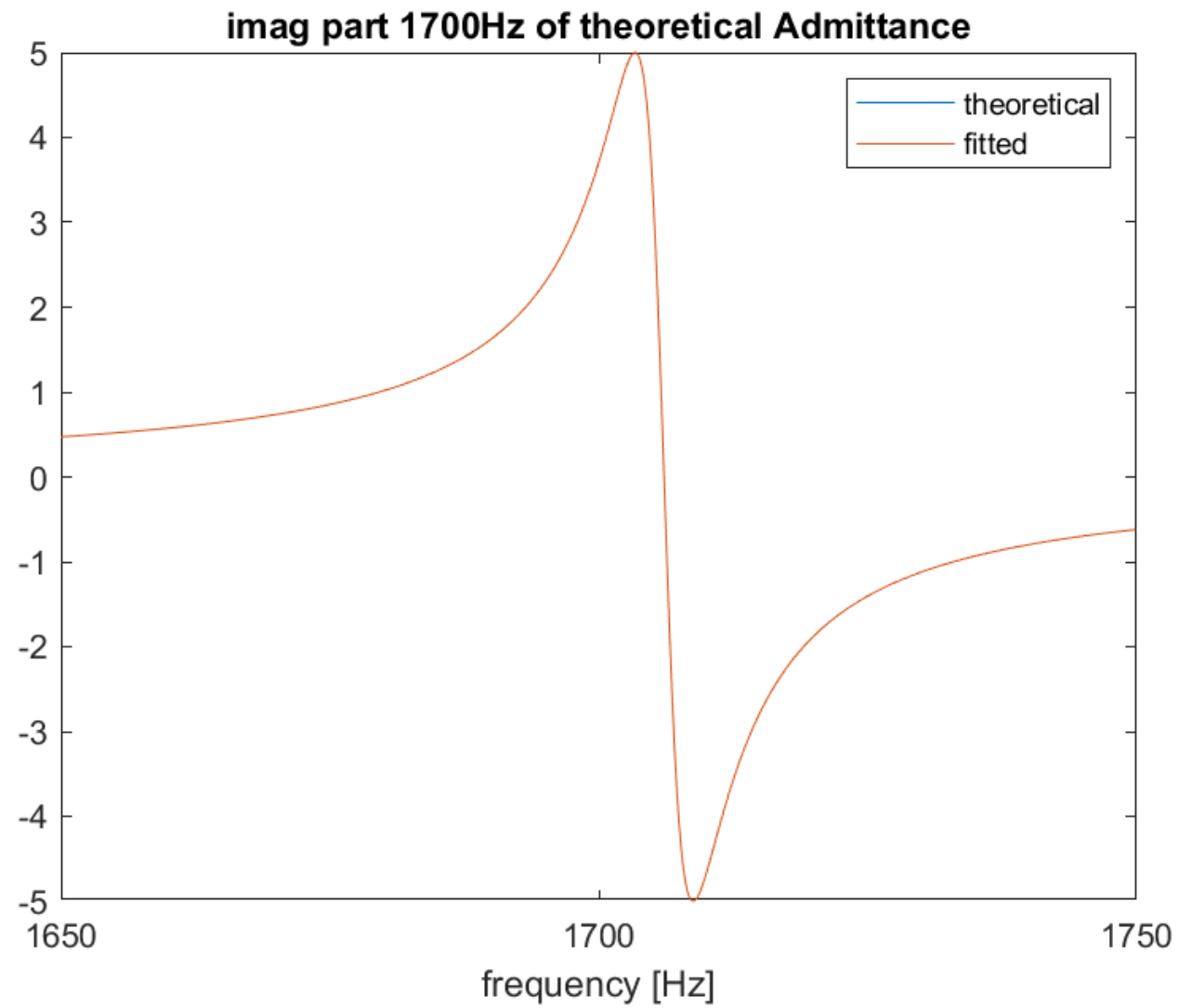


real 1700Hz part measurement vs. theoretical fitting

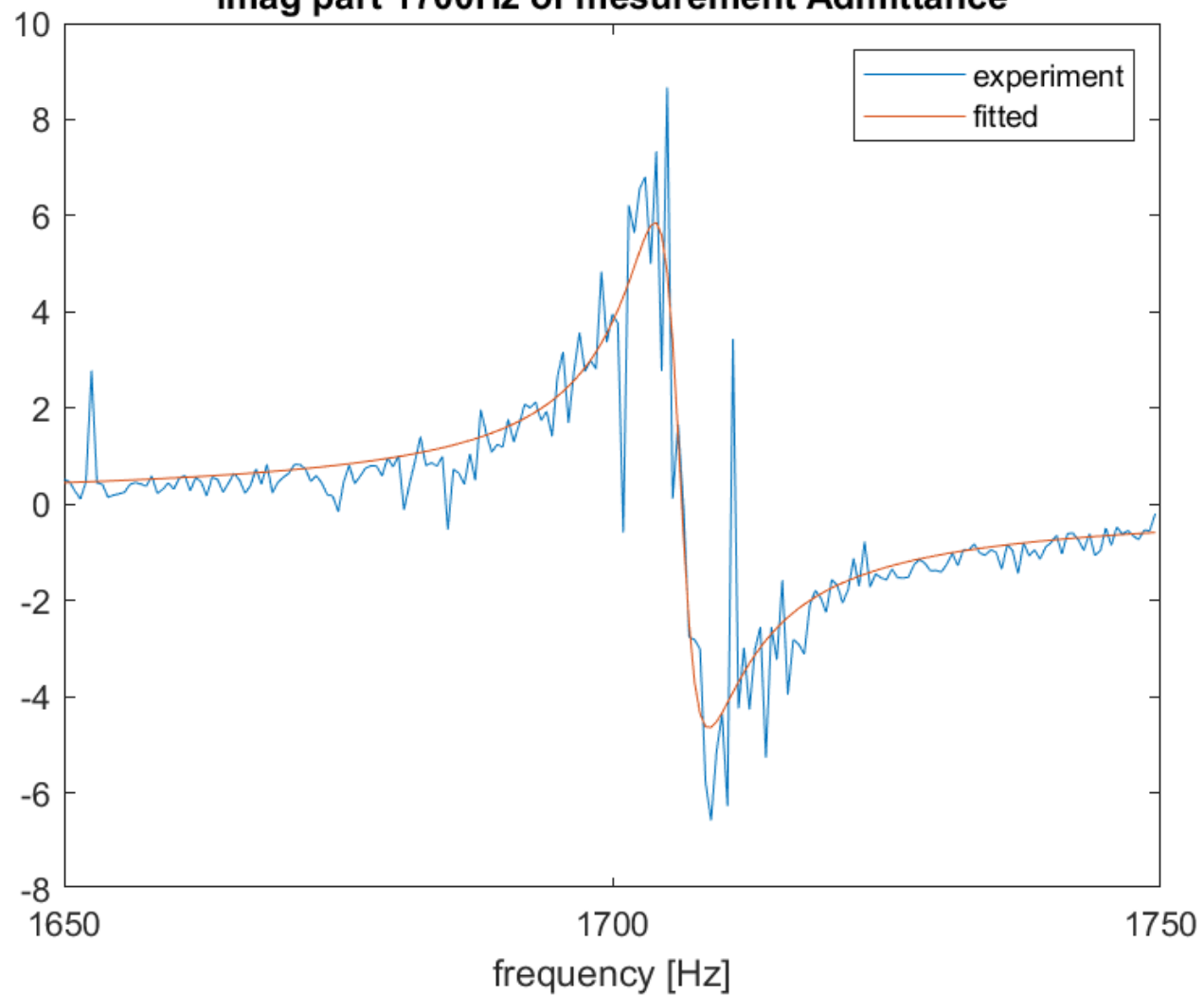




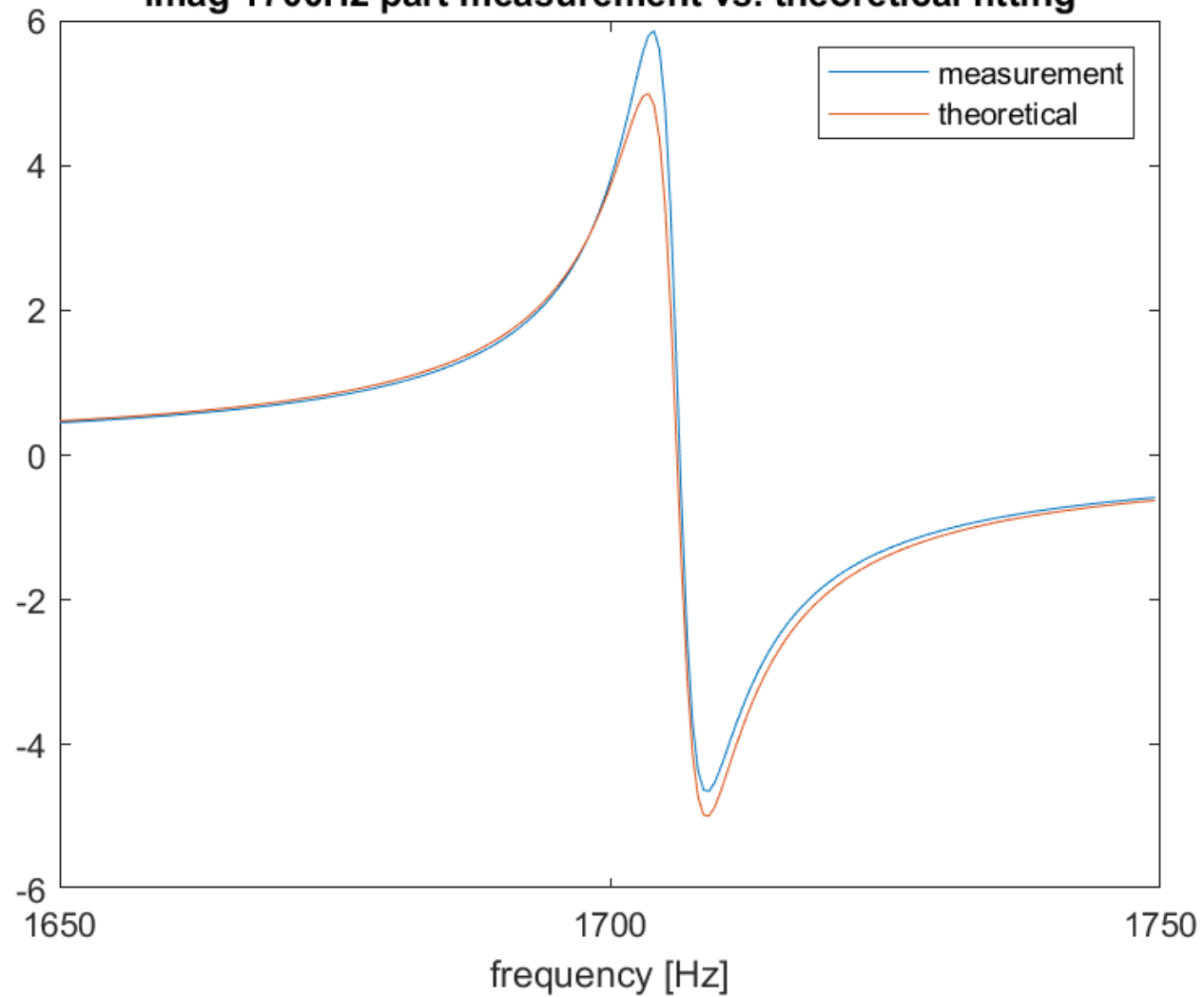


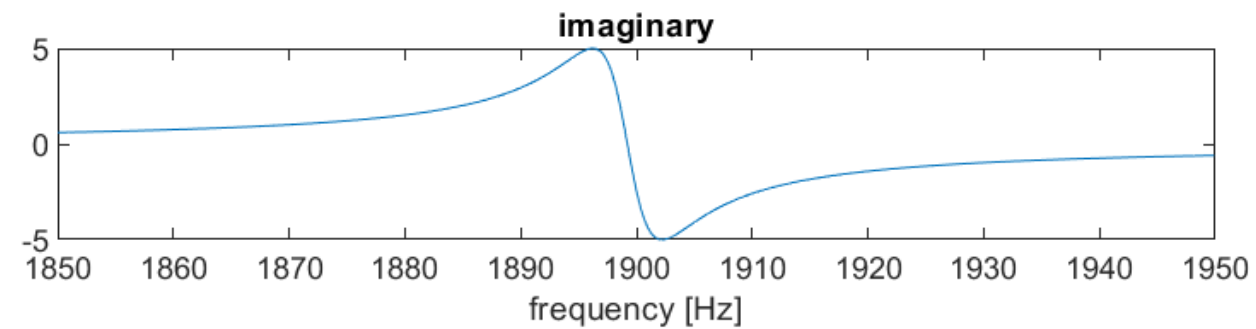
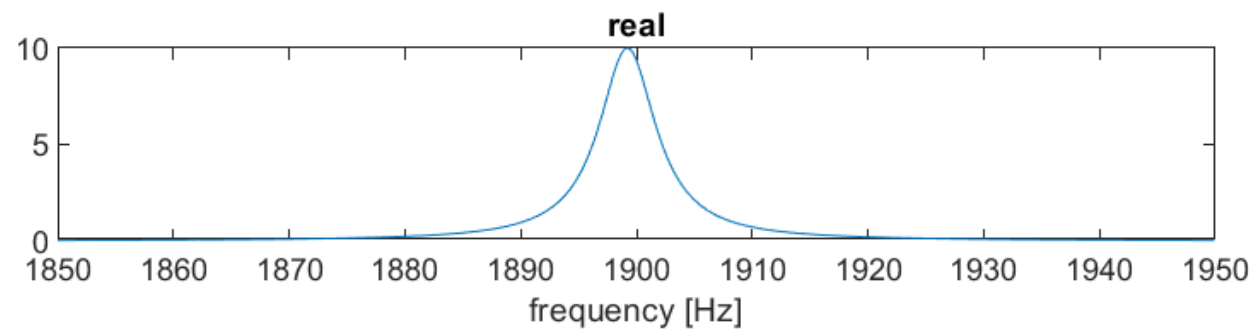
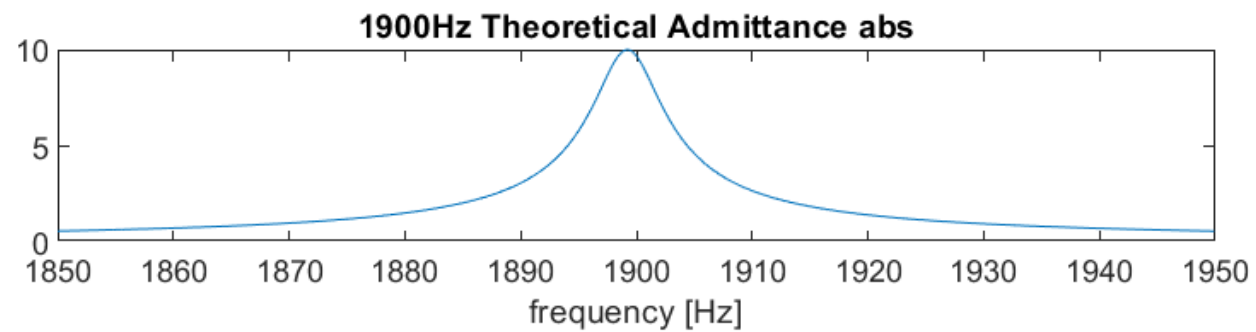


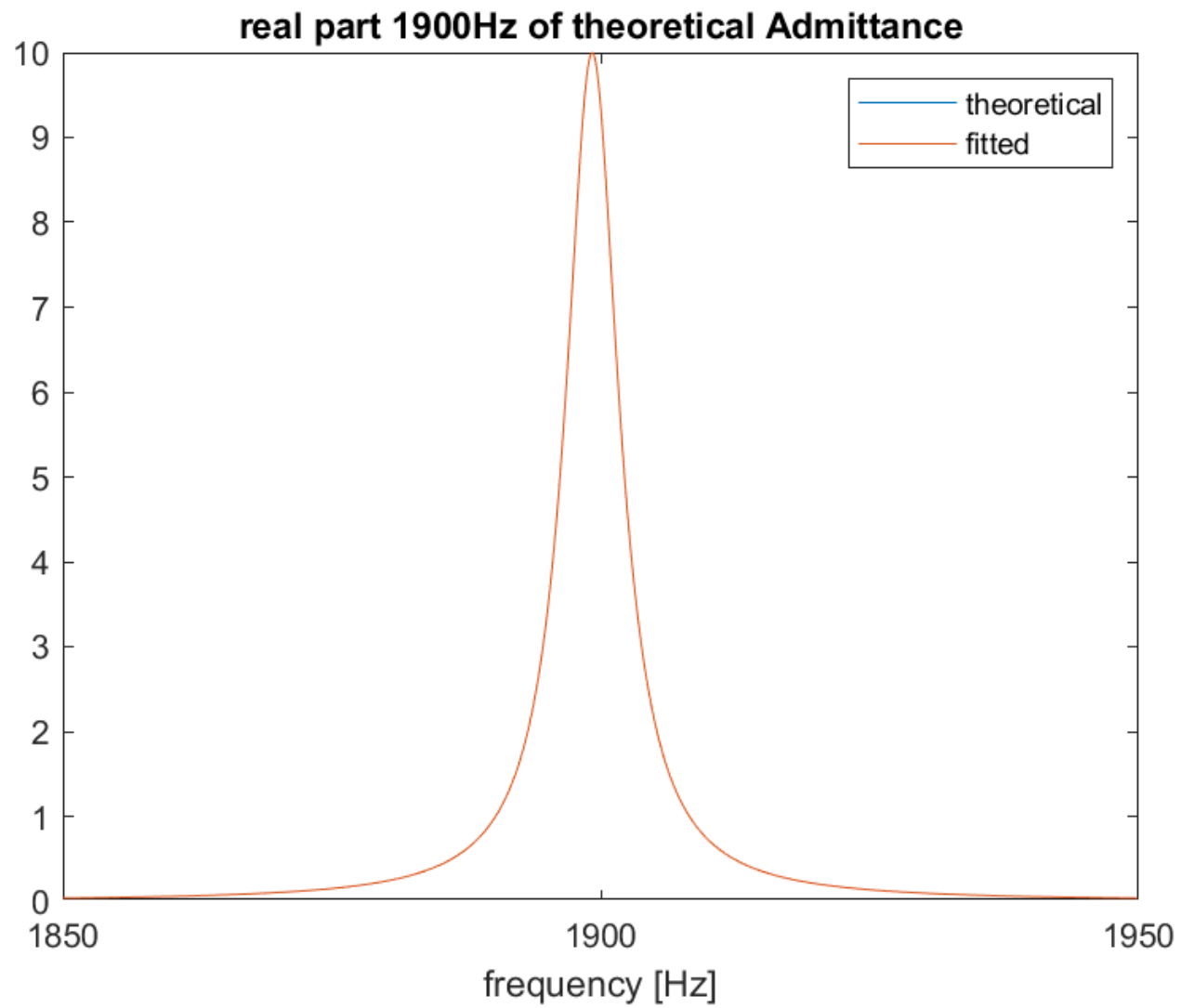
imag part 1700Hz of mesurement Admittance

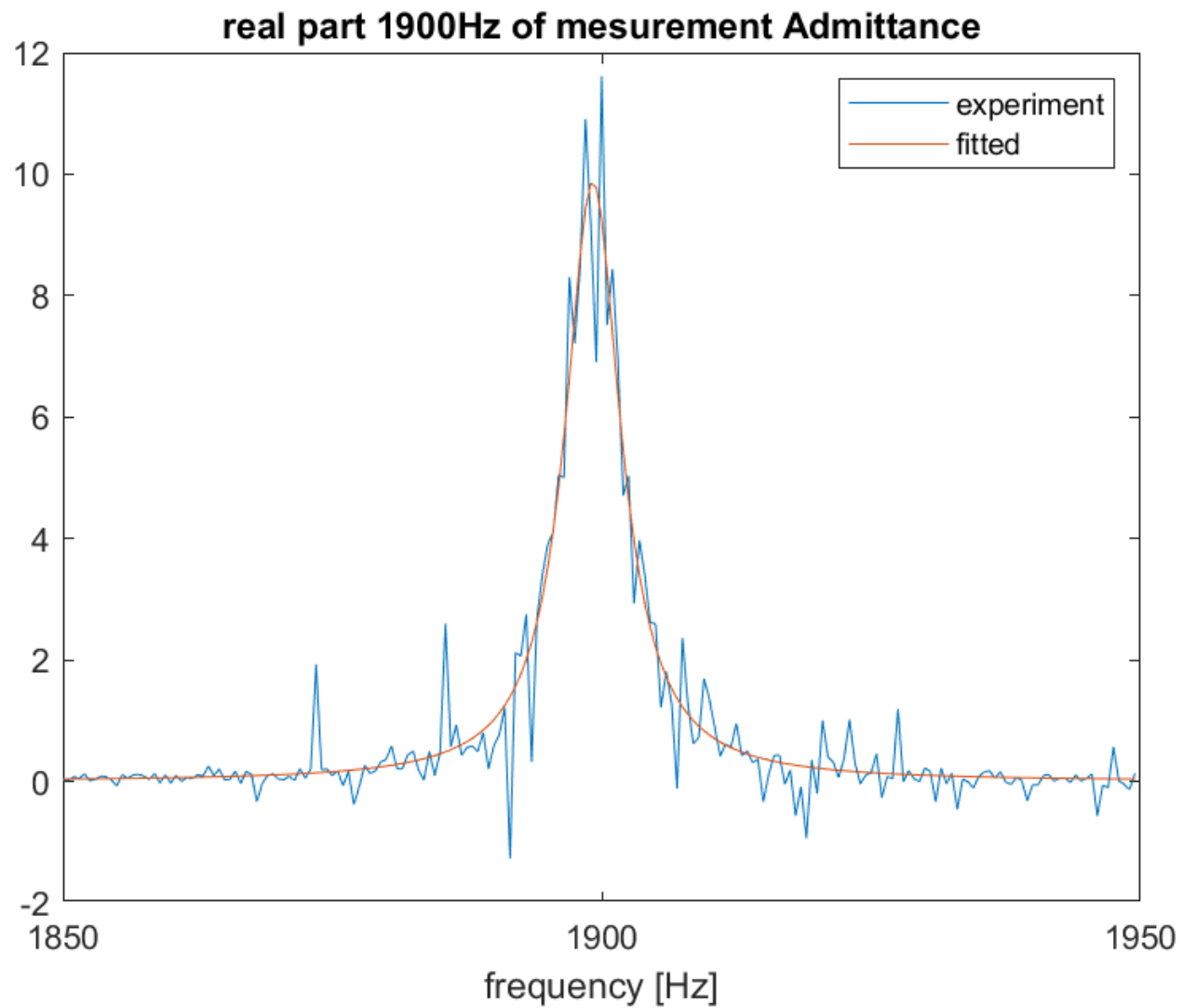


imag 1700Hz part measurement vs. theoretical fitting

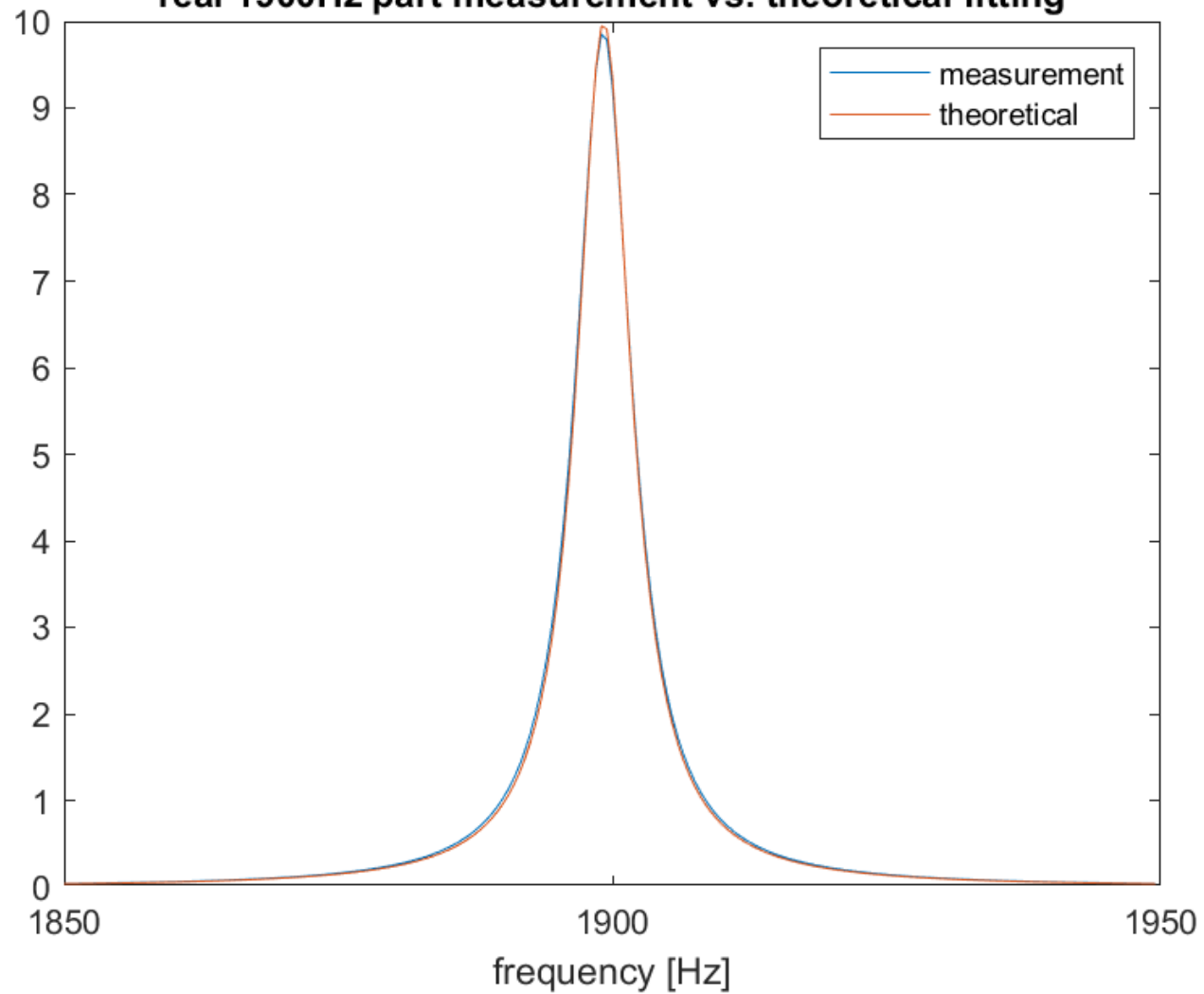


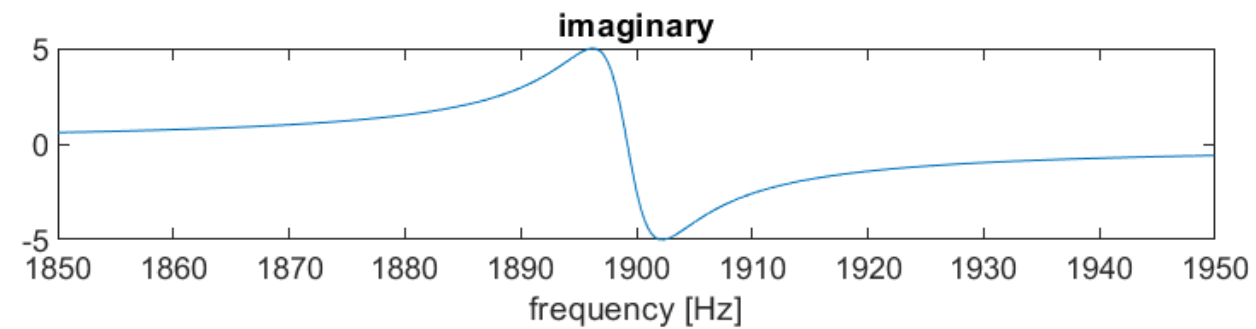
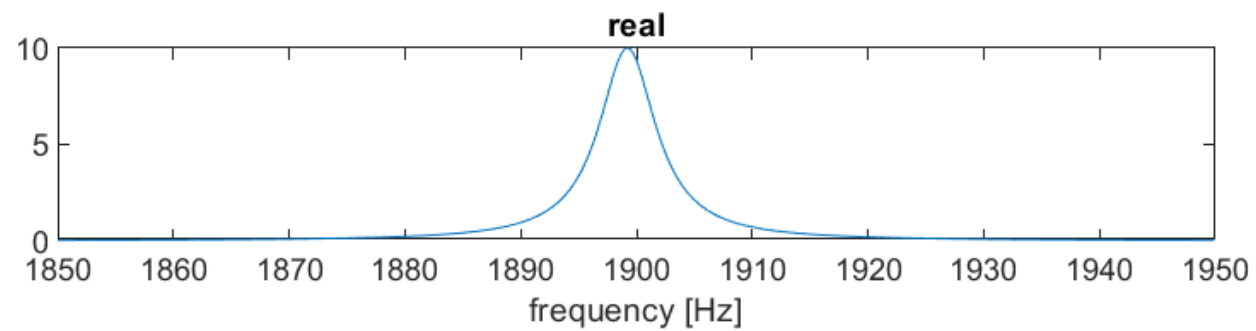
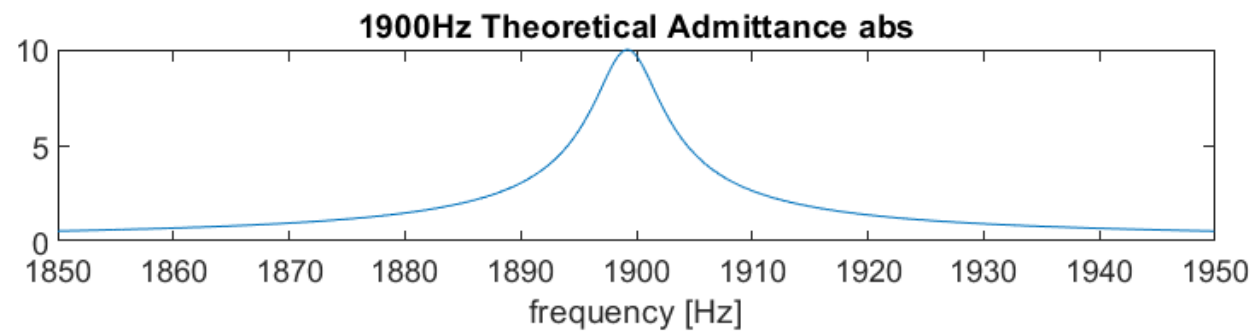




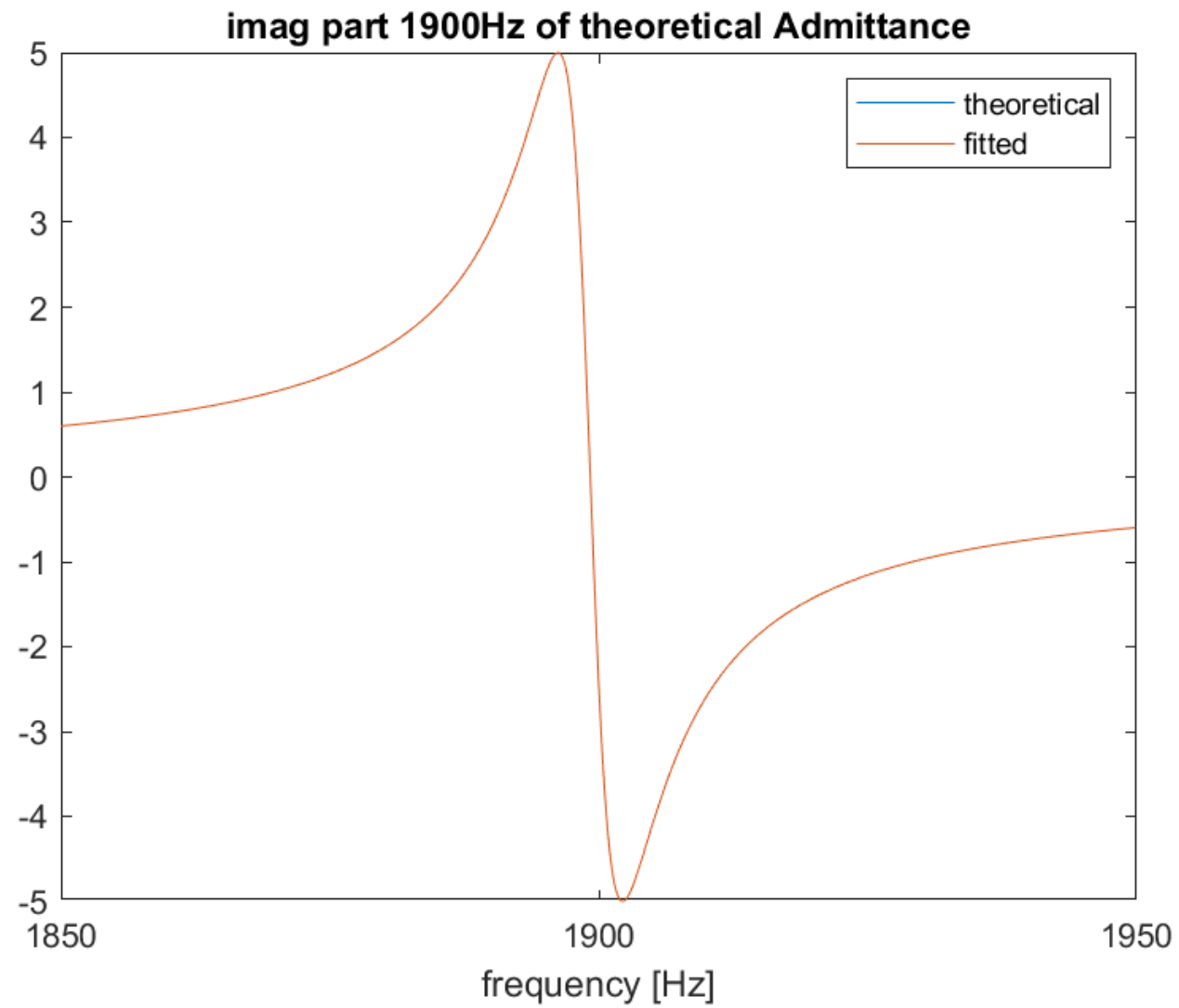


real 1900Hz part measurement vs. theoretical fitting

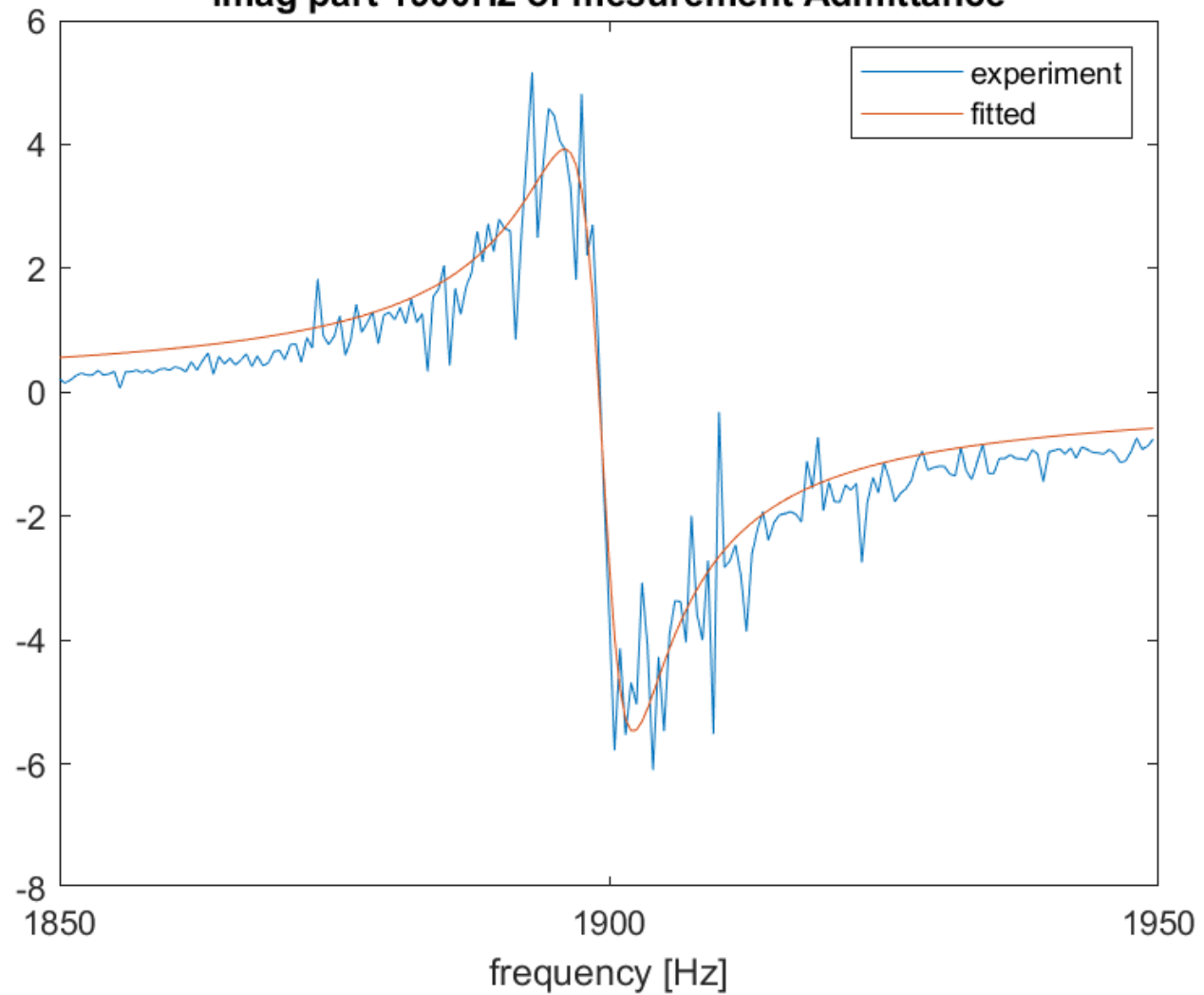








imag part 1900Hz of mesurement Admittance



imag 1900Hz part measurement vs. theoretical fitting

