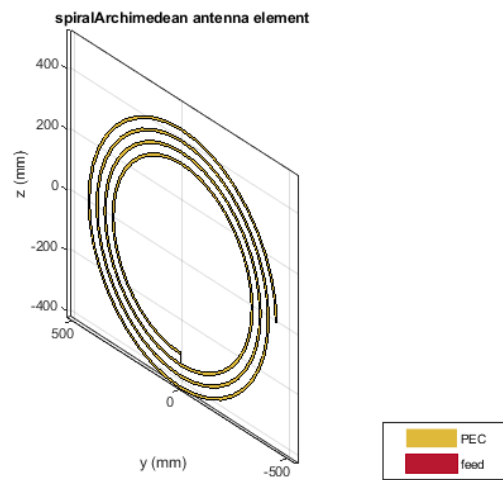
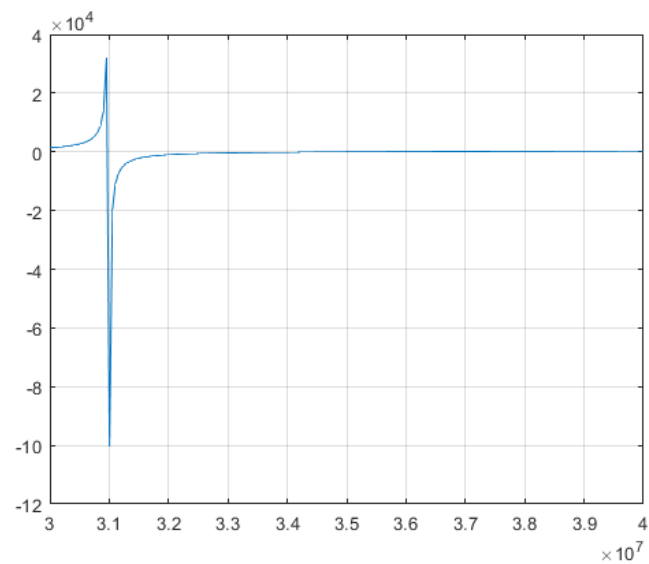


## Respostas dos itens propostos do Projeto

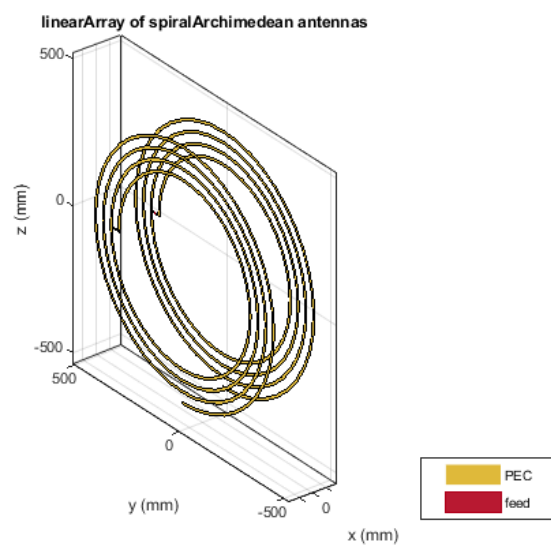
1.



2.

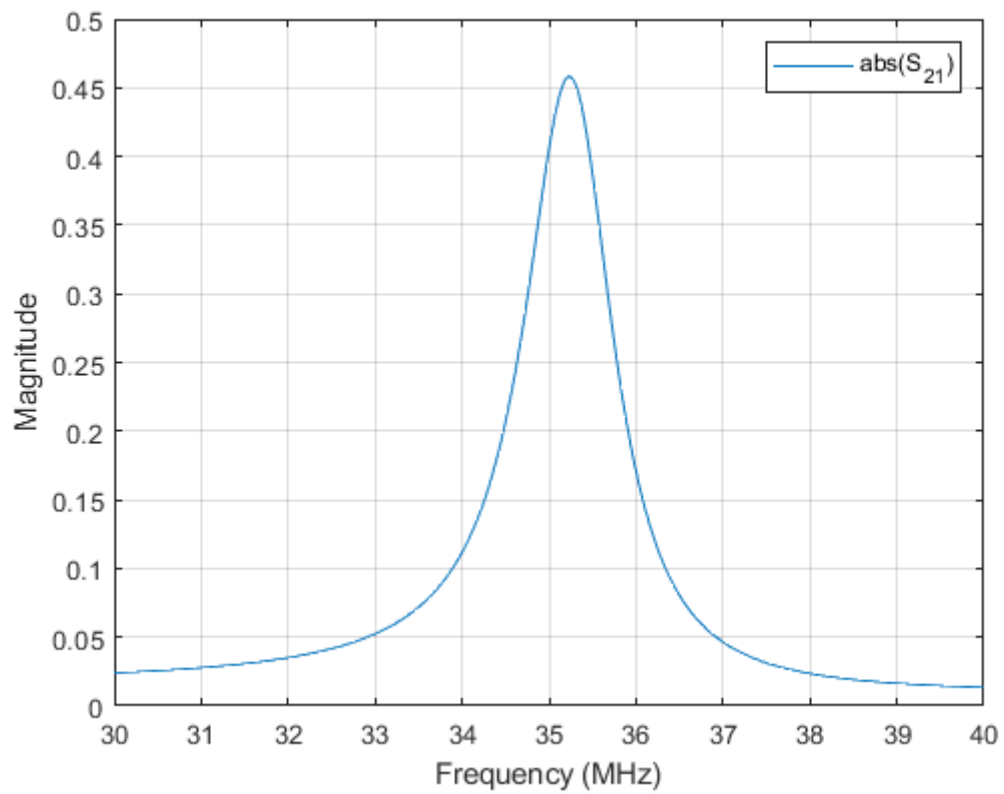


3.



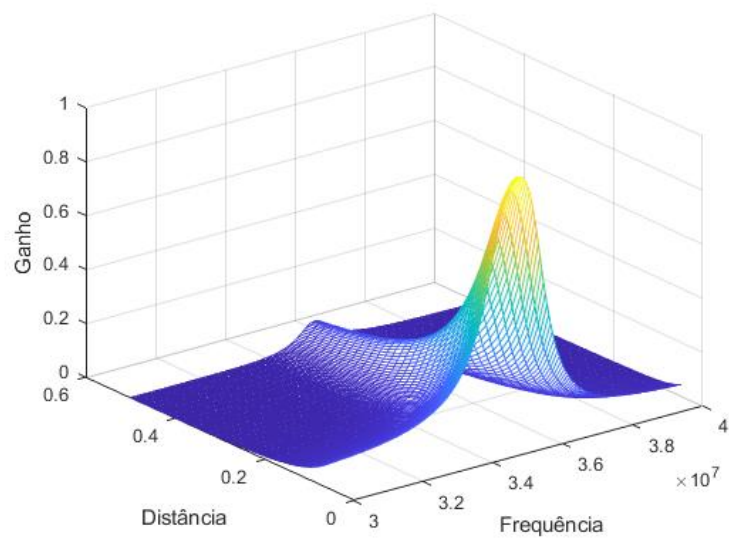
4.

5.



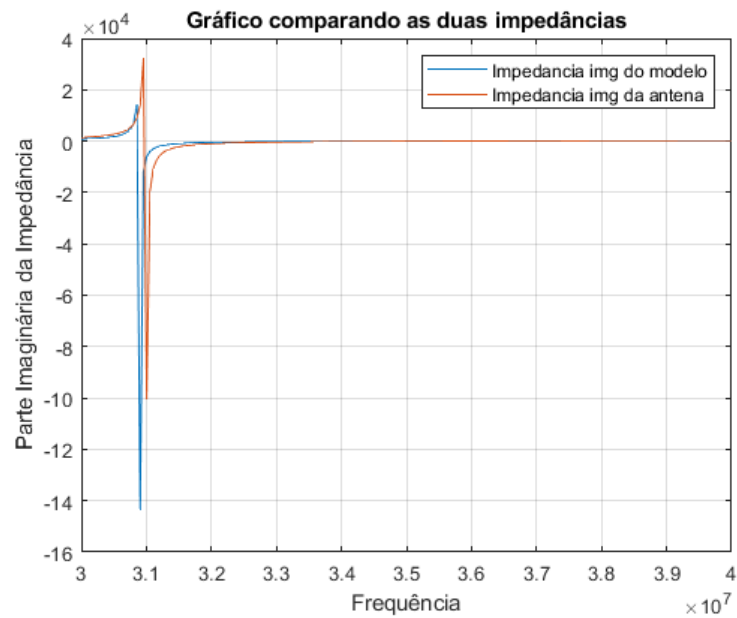
É importante pois é a frequência de ressonância. No gráfico a maior magnitude é a que tem frequência parecido com a de ressonância

6.

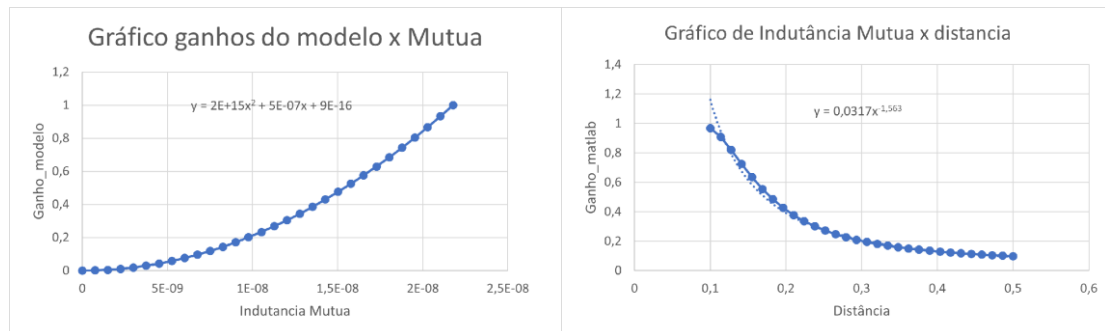


7.  
Opcional

8.



Resposta do M em função de d:



$$0,0317 \cdot d^{-1,563} = 2 \cdot 10^{15} \cdot M^2 + 5 \cdot 10^{-7} \cdot M + 9 \cdot 10^{-16}$$

$$\Delta = (5 \cdot 10^{-7})^2 - 4 \cdot 2 \cdot 10^{15} \cdot (9 \cdot 10^{-16} - 0,0317 \cdot d^{-1,563})$$

$$\Delta = -7,2 + 2,536 \cdot 10^{14} \cdot d^{-1,563}$$

$$M = \frac{-5 \cdot 10^{-7} + \sqrt{-7,2 + 2,536 \cdot 10^{14} \cdot d^{-1,563}}}{4 \cdot 10^{15}}$$

