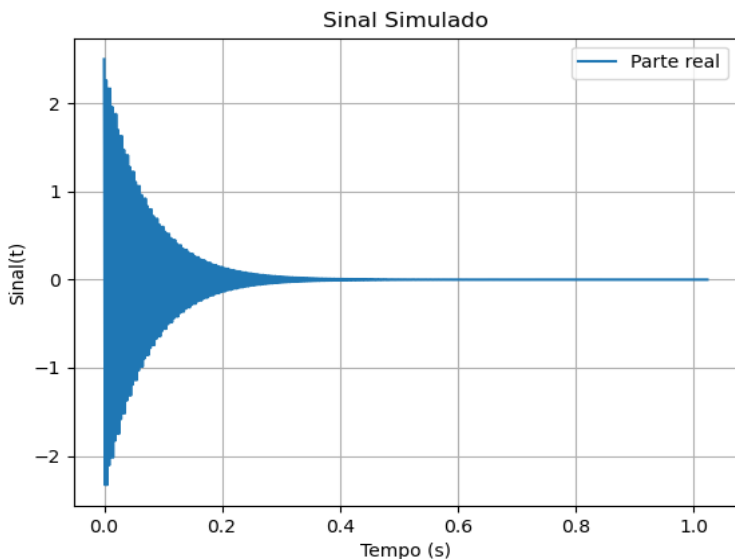
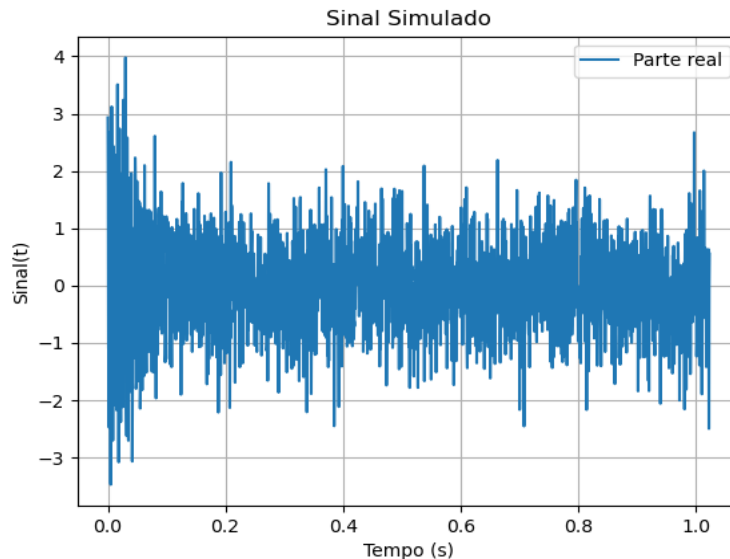


Análise dos efeitos de filtragem por Transformada Wavelet 1D

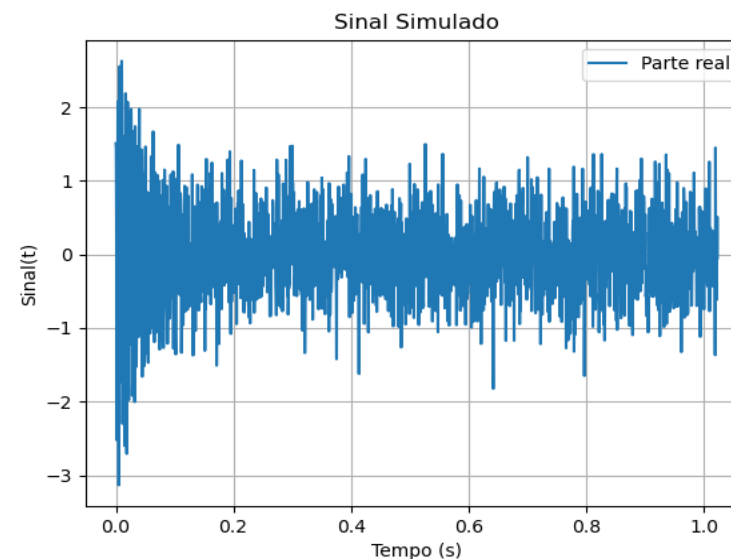
Thiago Oliveira dos Santos - nºUSP 13696220



Sinal simulado com frequência única de 300 Hz



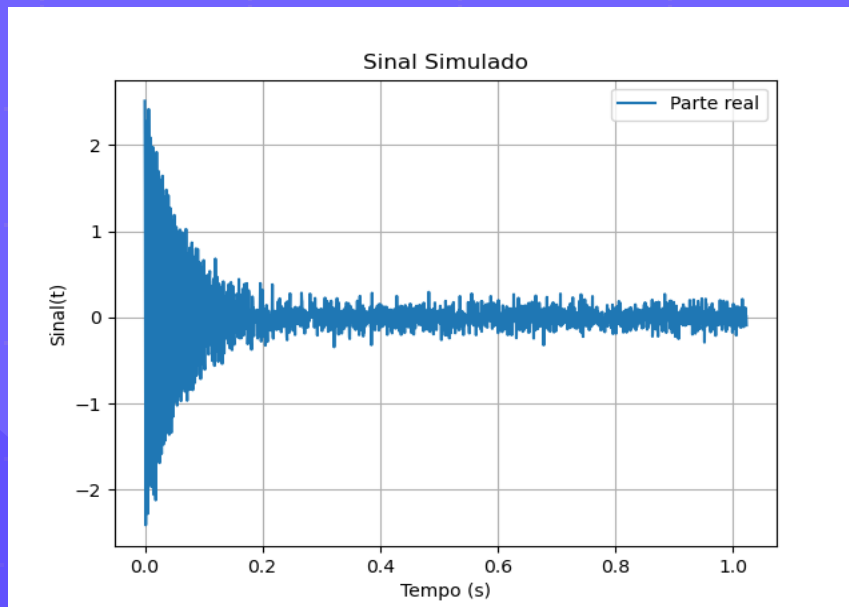
Sinal corrompido com desvio padrão de 0.75



Sinal corrompido com desvio padrão de 0.5

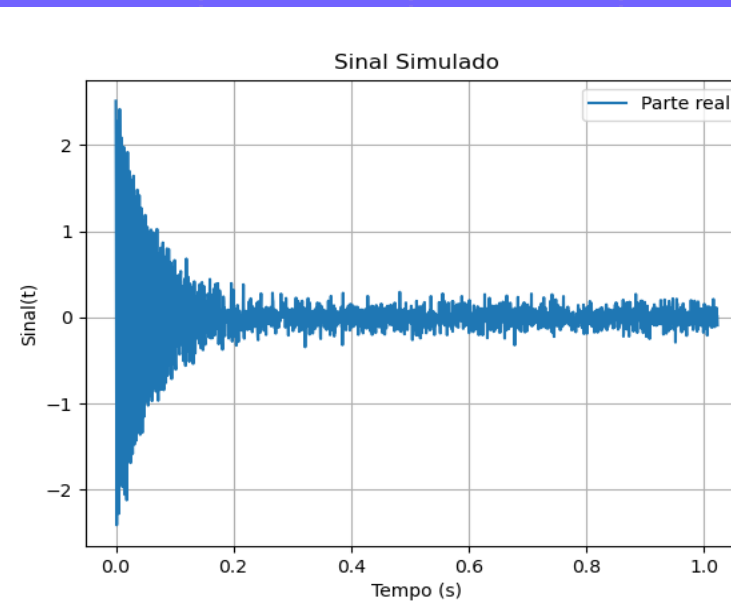
Sinal corrompido com desvio padrão de 0.1

Sinal A



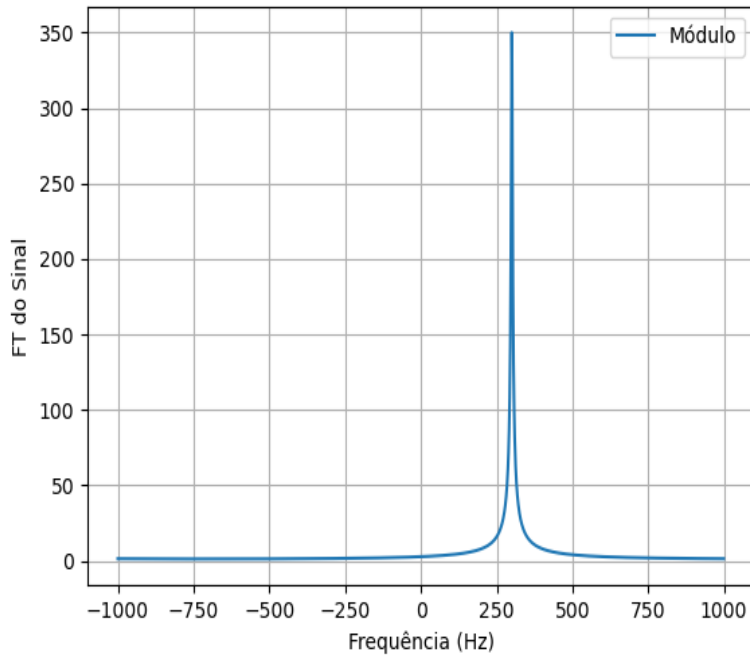
Sinal corrompido com desvio padrão de 0.05

Sinal B



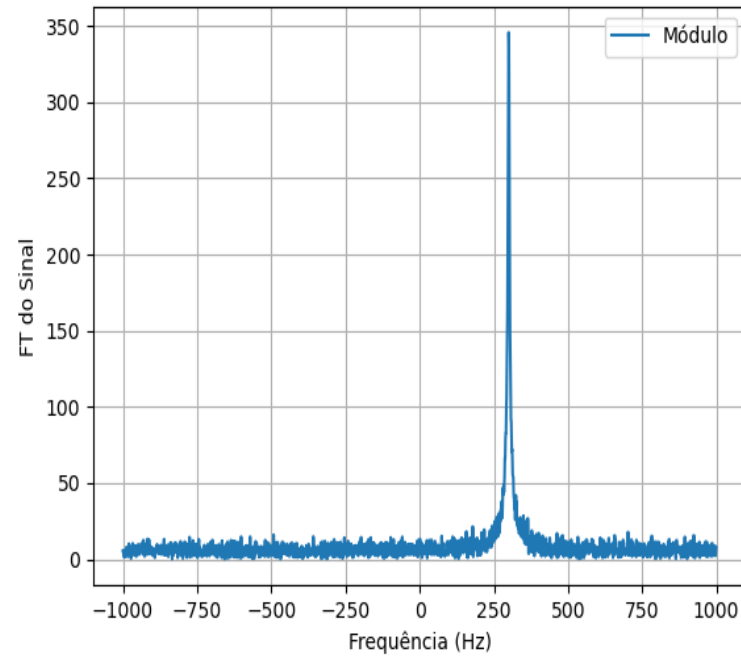
Transformada de Fourier

Espectro de Frequência do Sinal



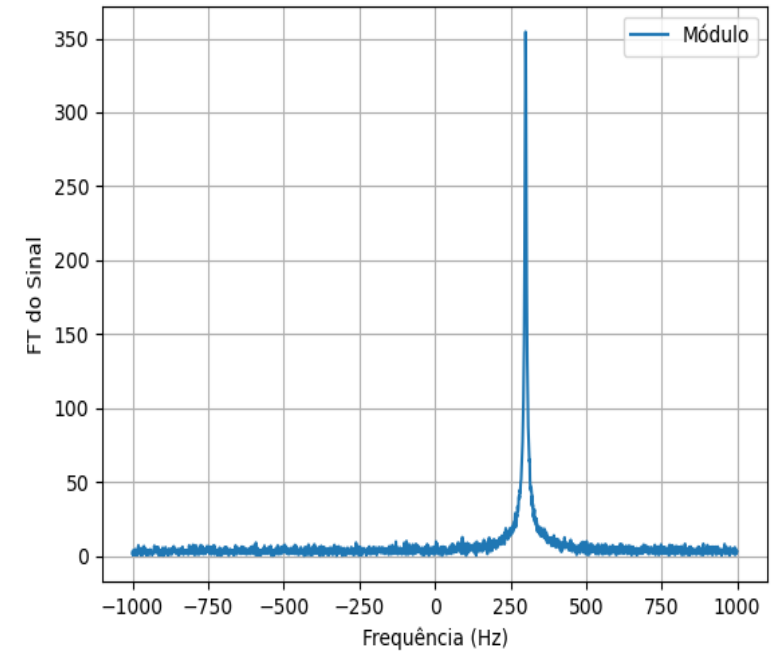
FT do sinal original

Espectro de Frequência do Sinal



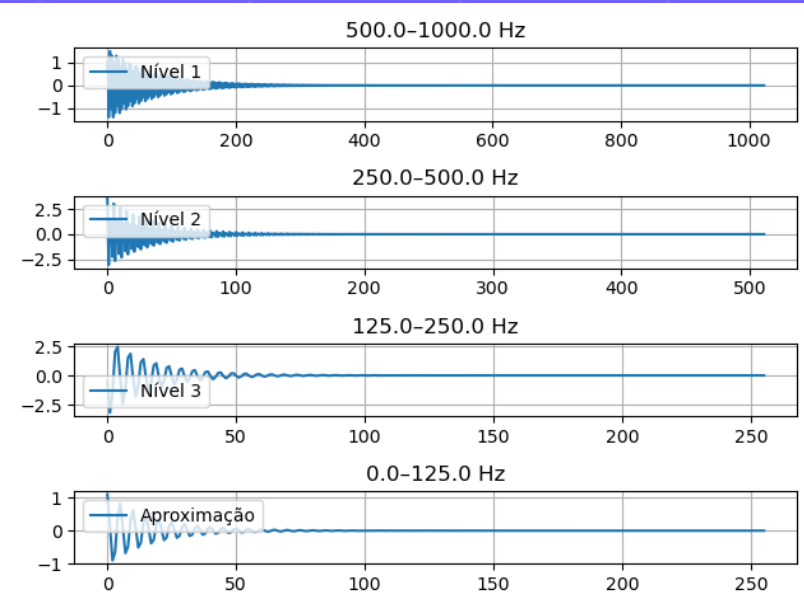
FT do sinal A

Espectro de Frequência do Sinal

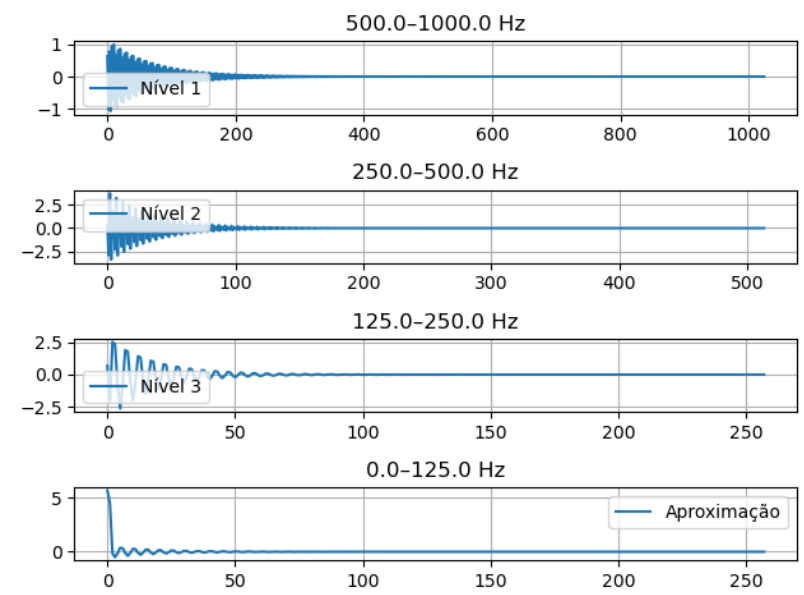


FT do sinal B

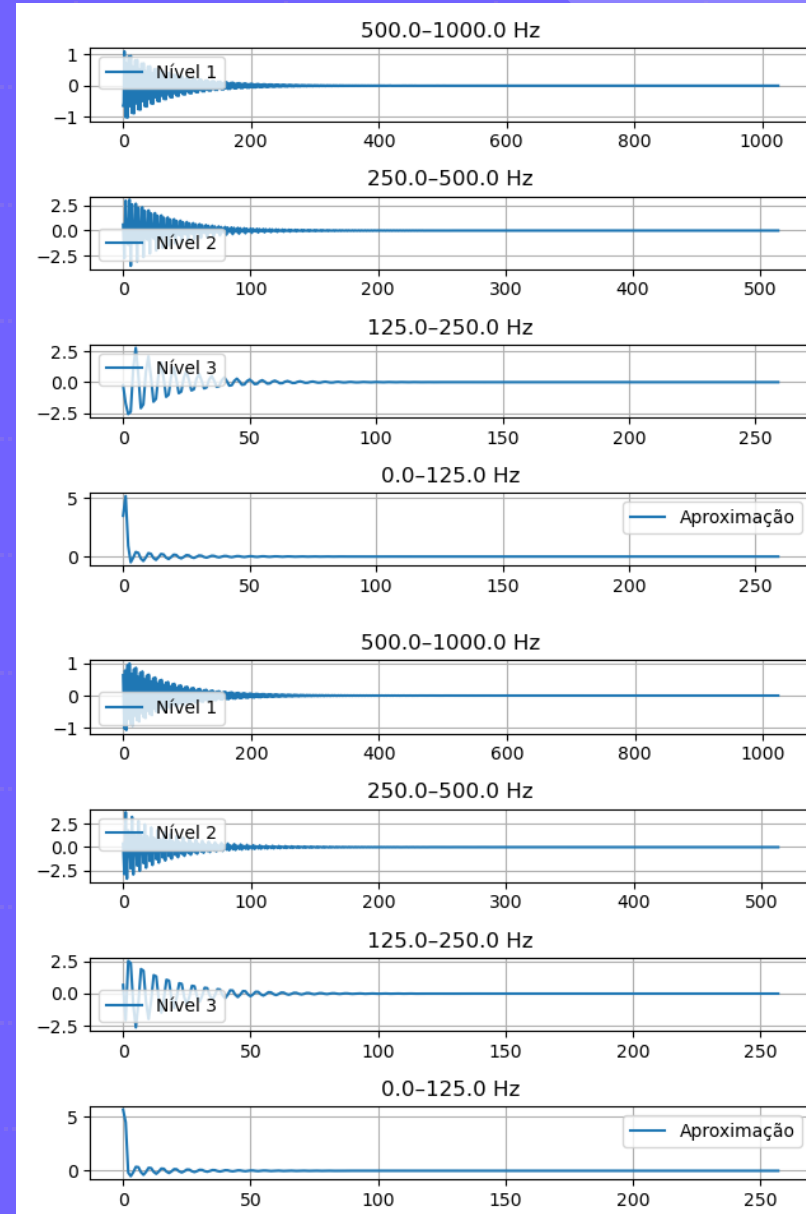
Transformada Wavelet do Sinal Original



haar



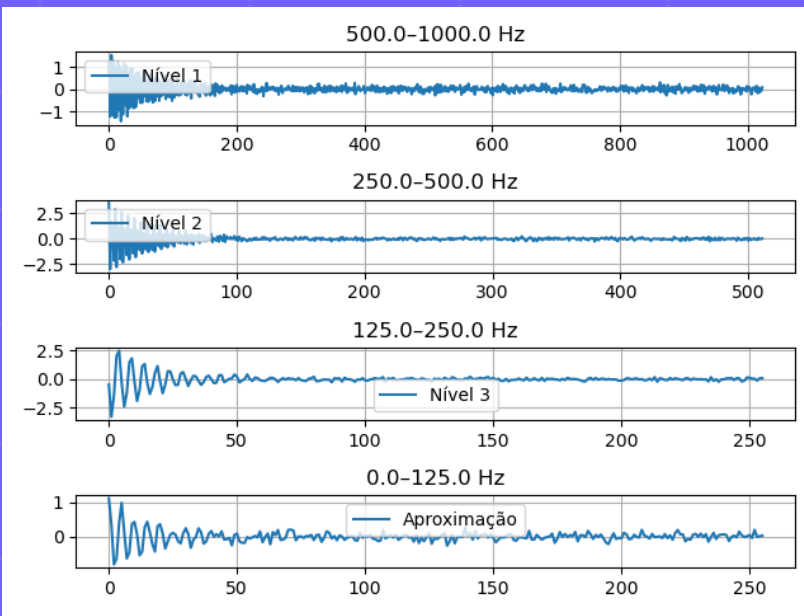
db2



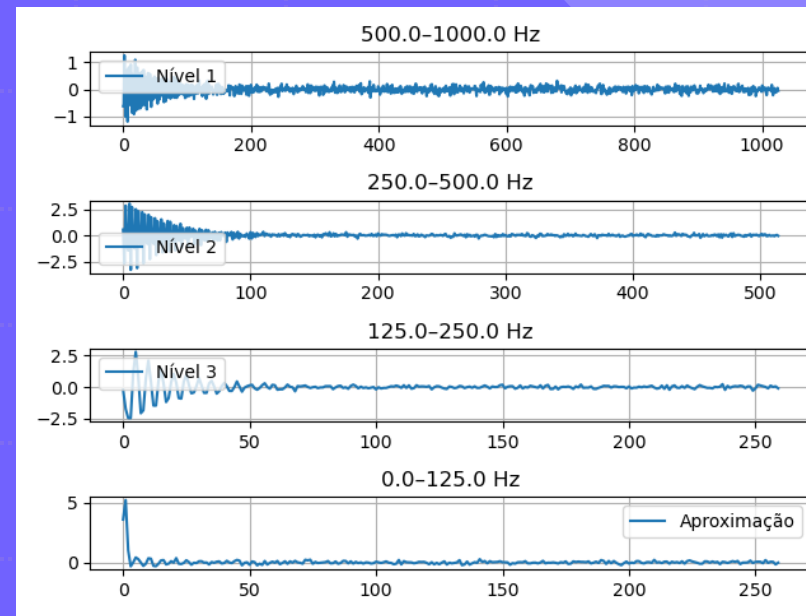
coif1

sym2

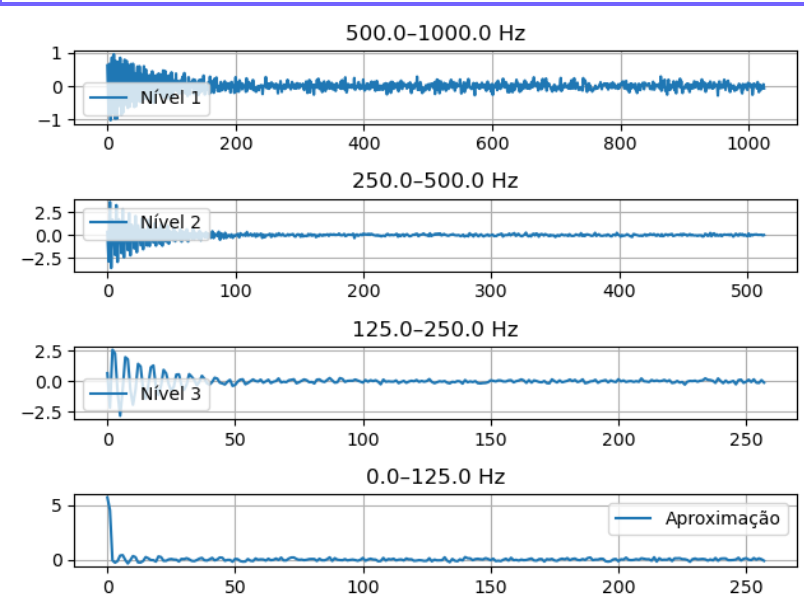
Transformada Wavelet do Sinal A



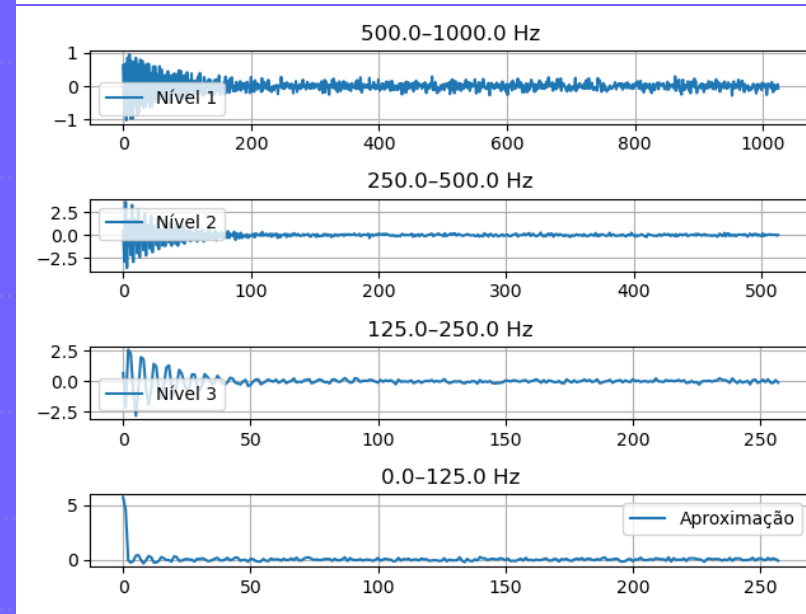
haar



coif1

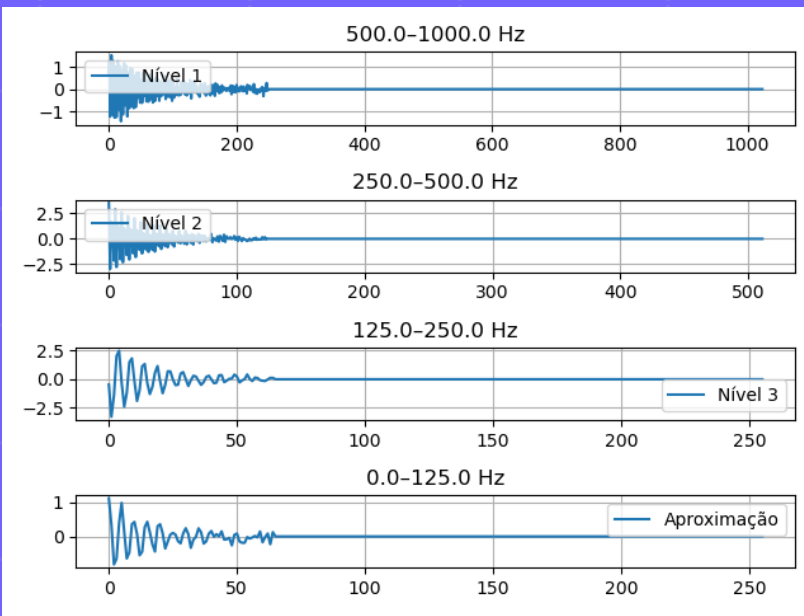


db2

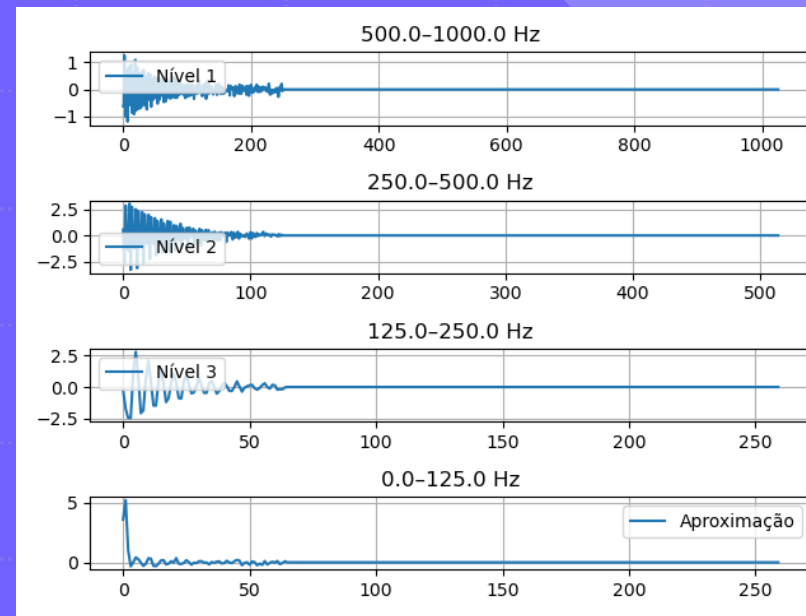


sym2

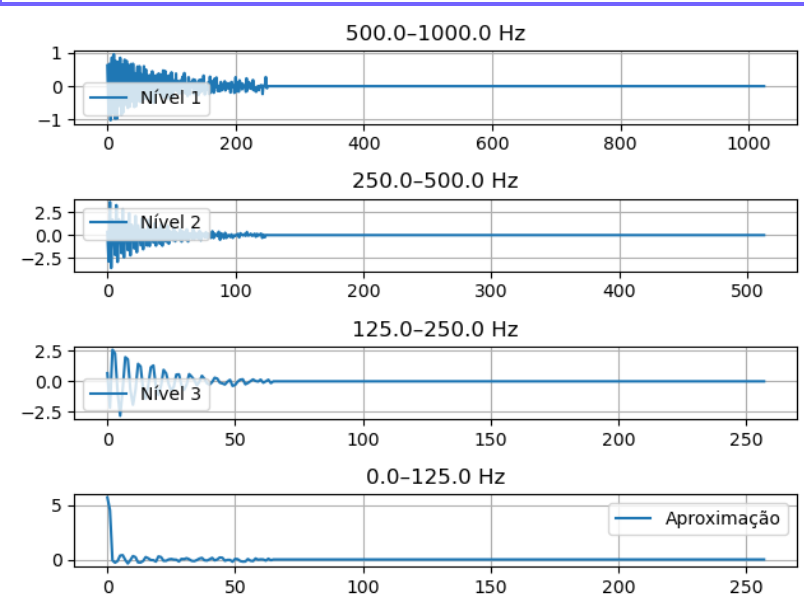
Filtragem da WT do Sinal A



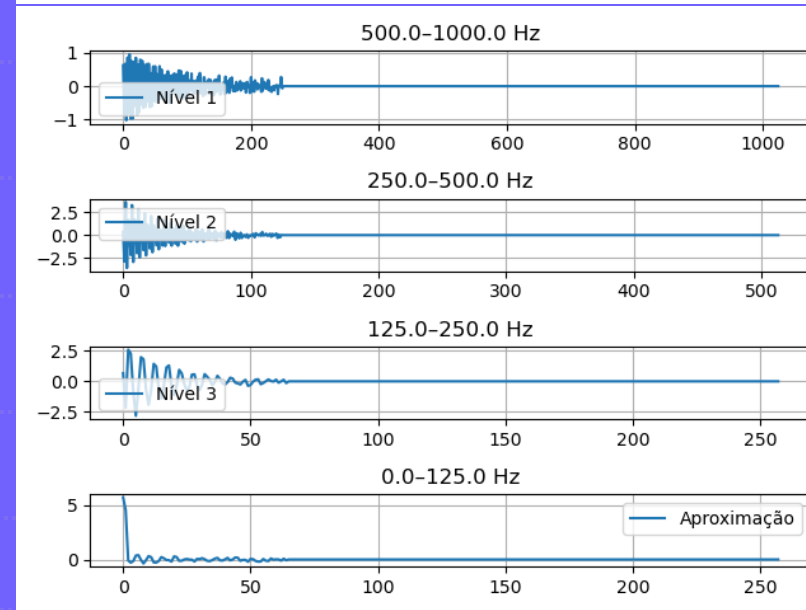
haar



coif1



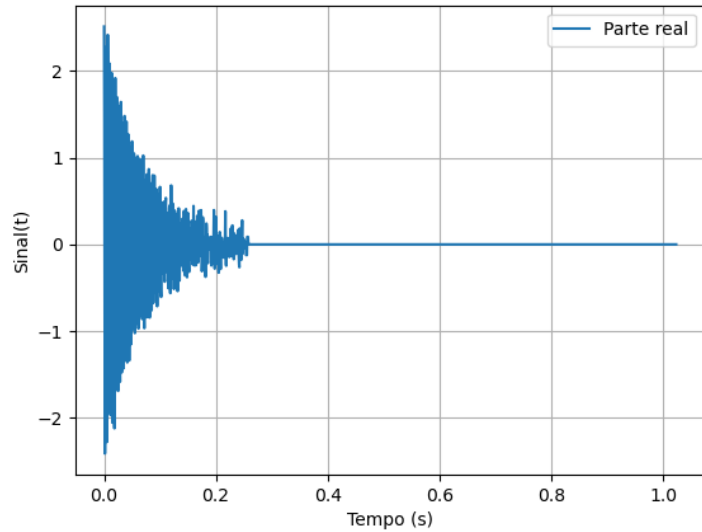
db2



sym2

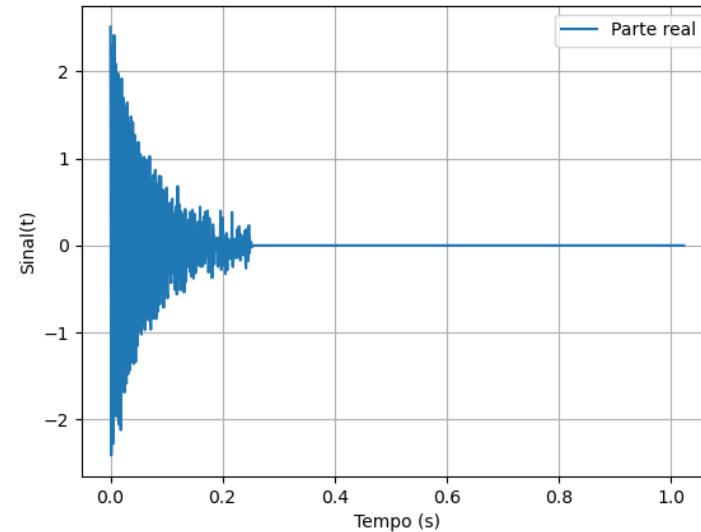
IDTWT do Sinal A filtrado

Sinal Simulado



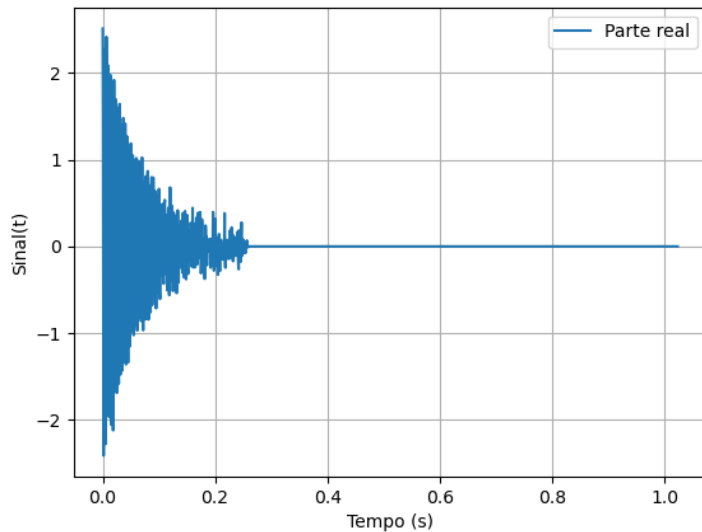
haar

Sinal Simulado



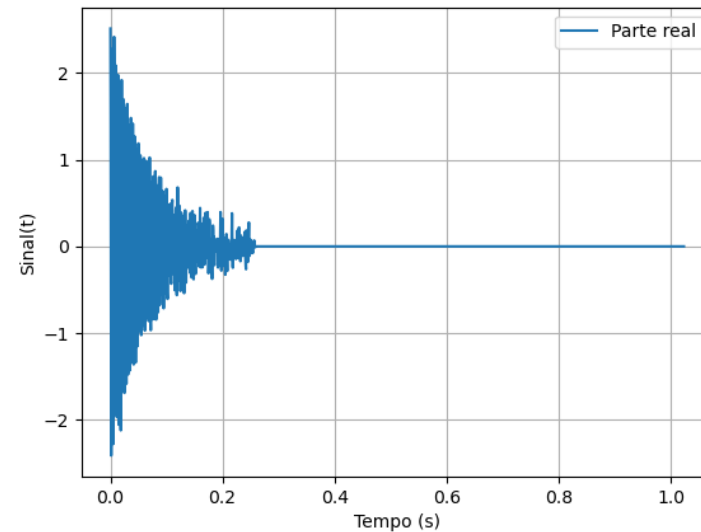
coif1

Sinal Simulado



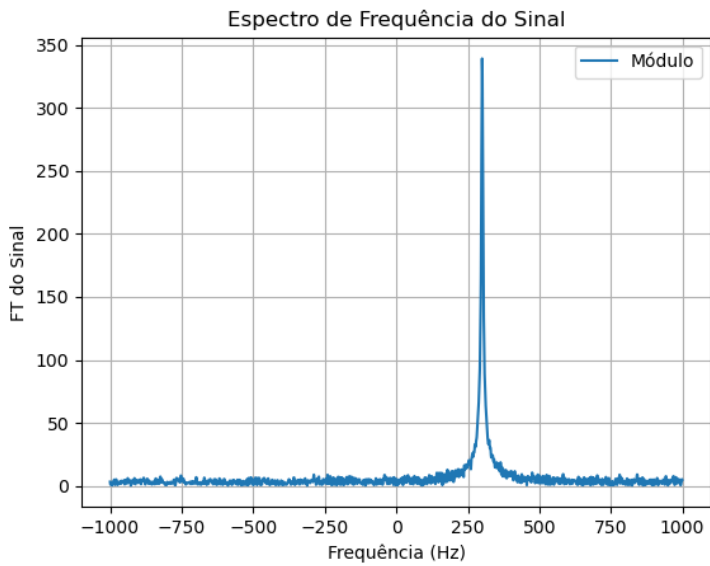
db2

Sinal Simulado

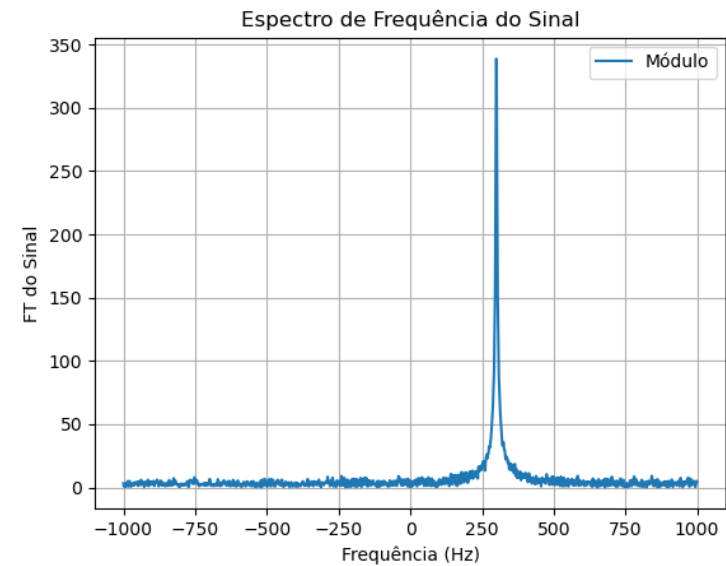


sym2

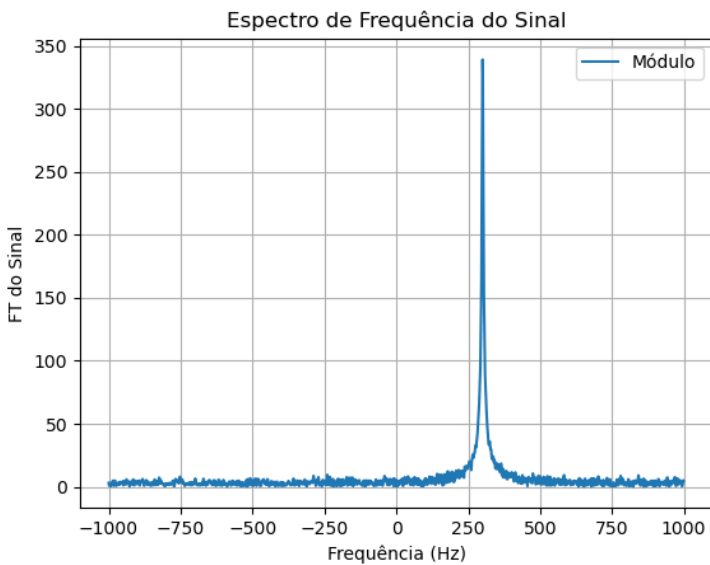
FT do Sinal A filtrado



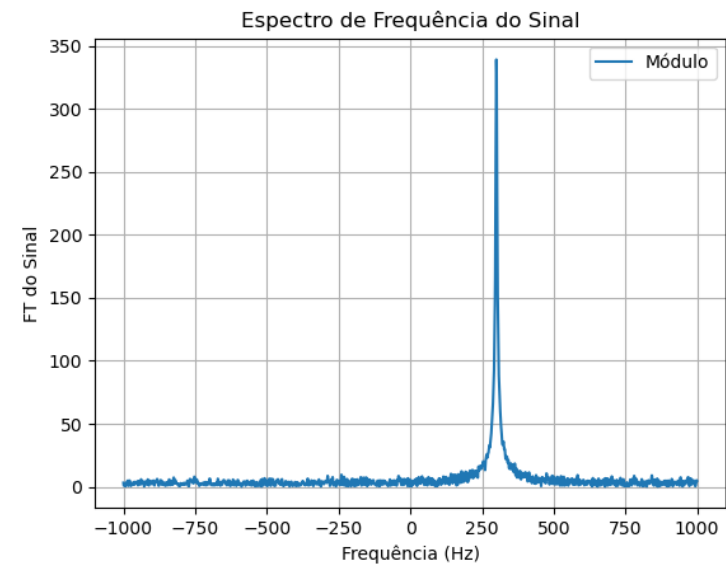
haar



coif1

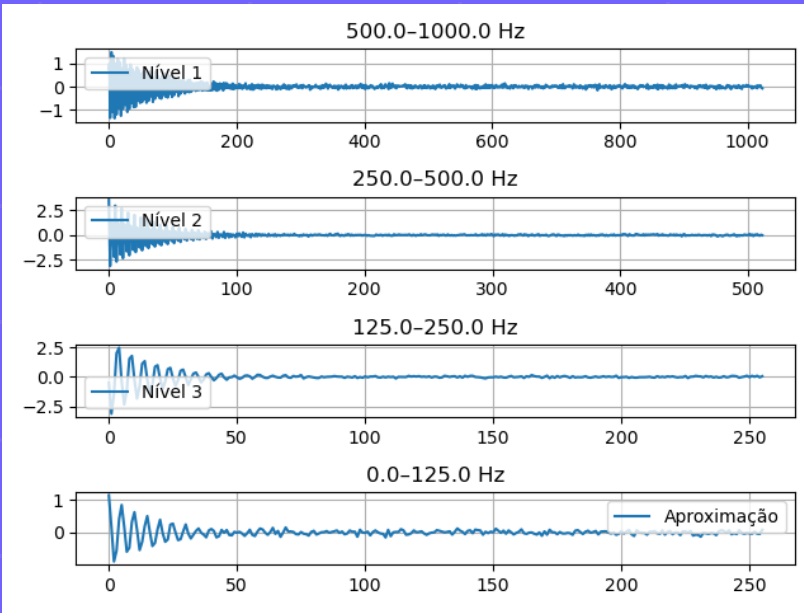


db2

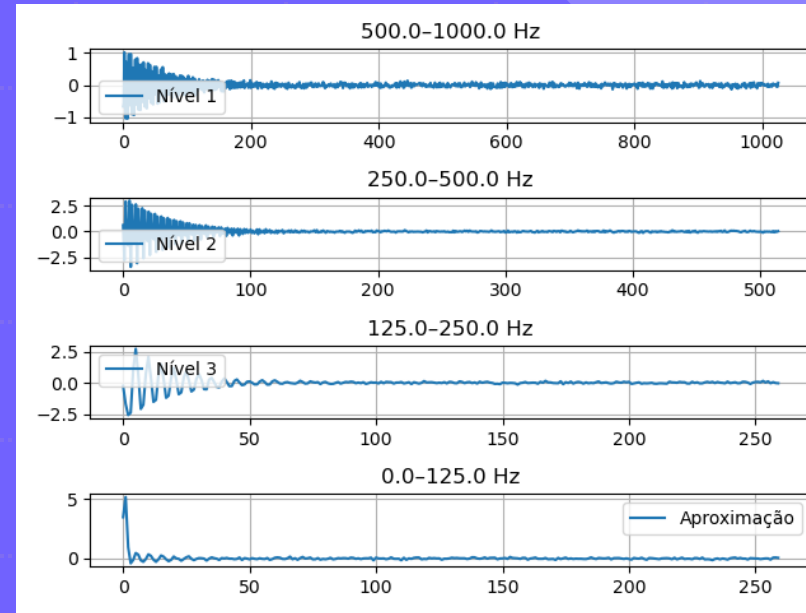


sym2

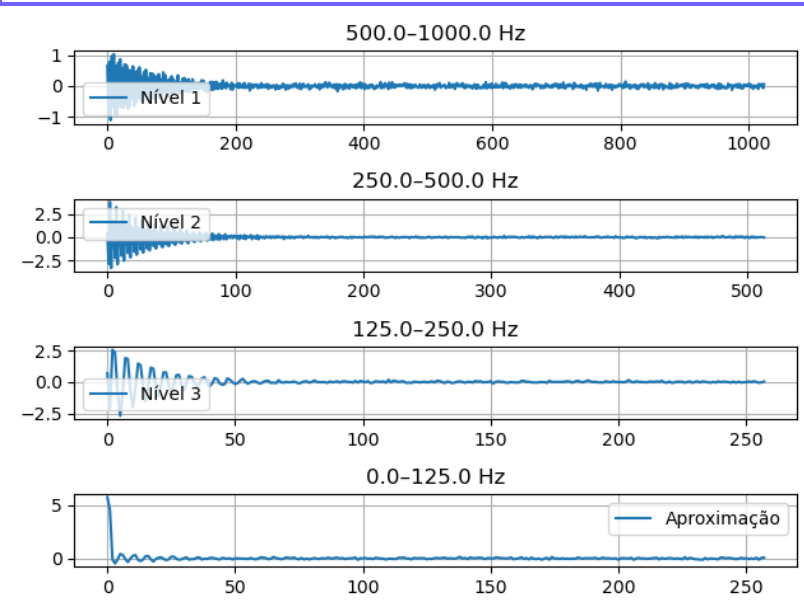
Transformada Wavelet do Sinal B



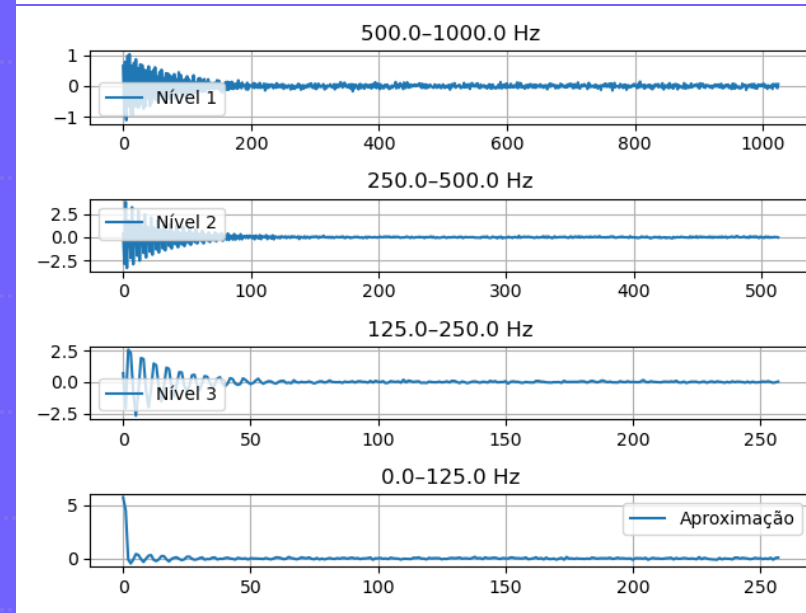
haar



coif1

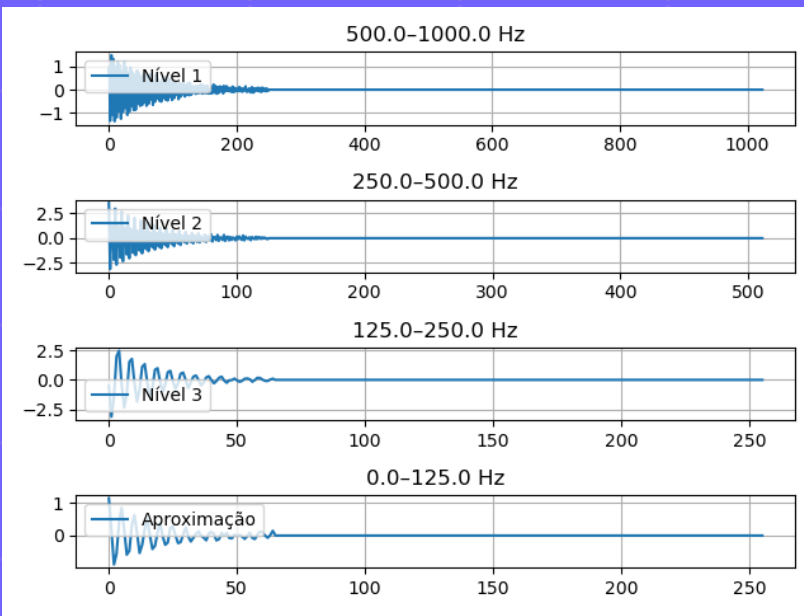


db2

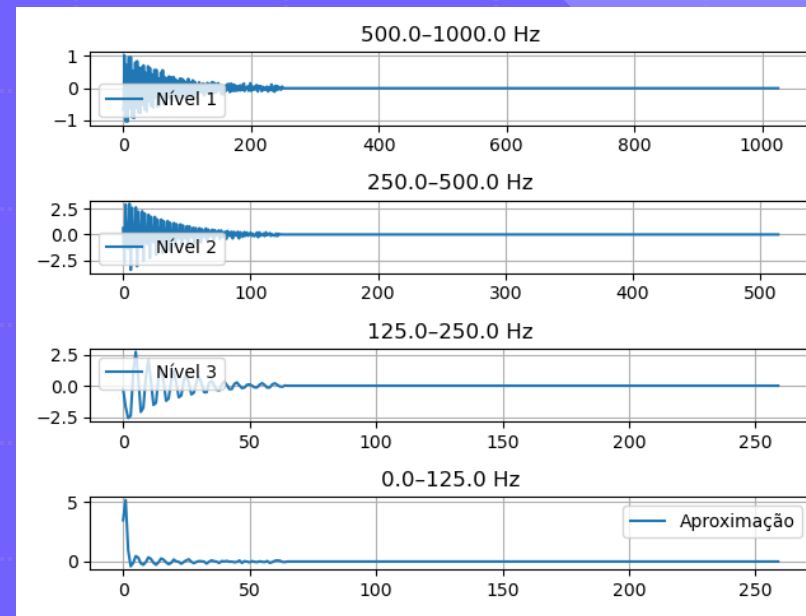


sym2

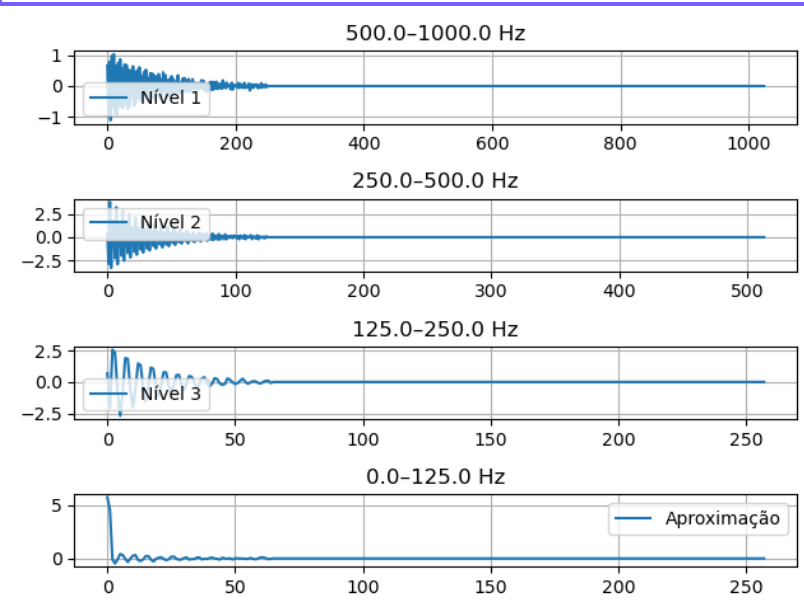
Filtragem da WT do Sinal B



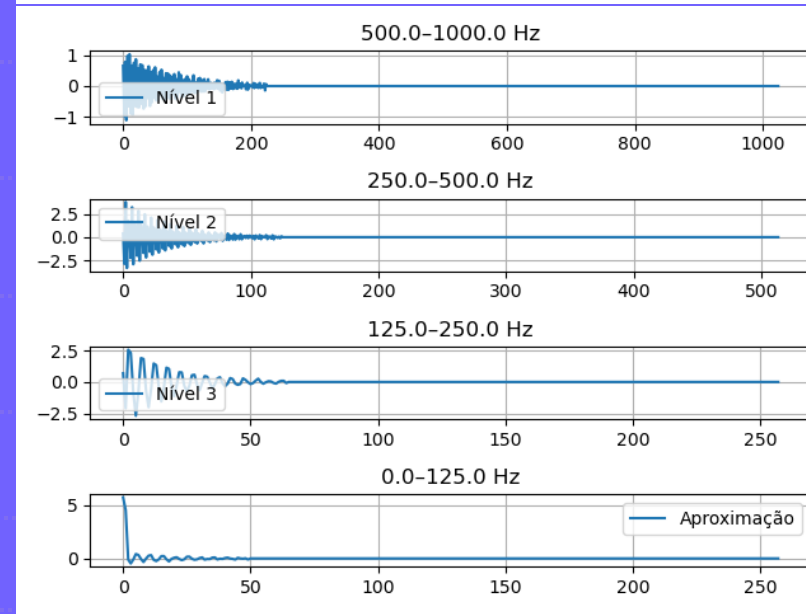
haar



coif1

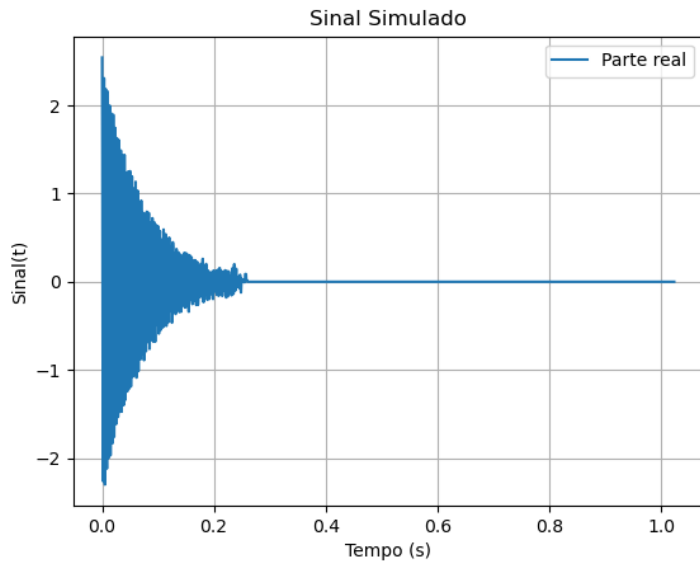


db2

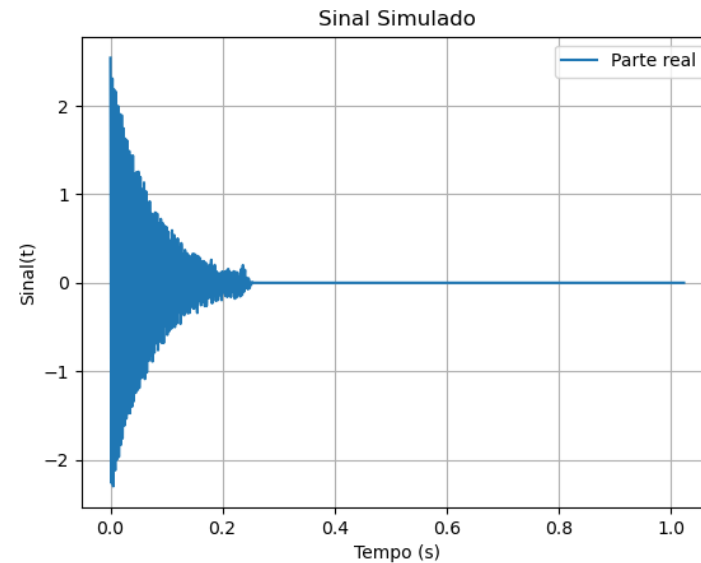


sym2

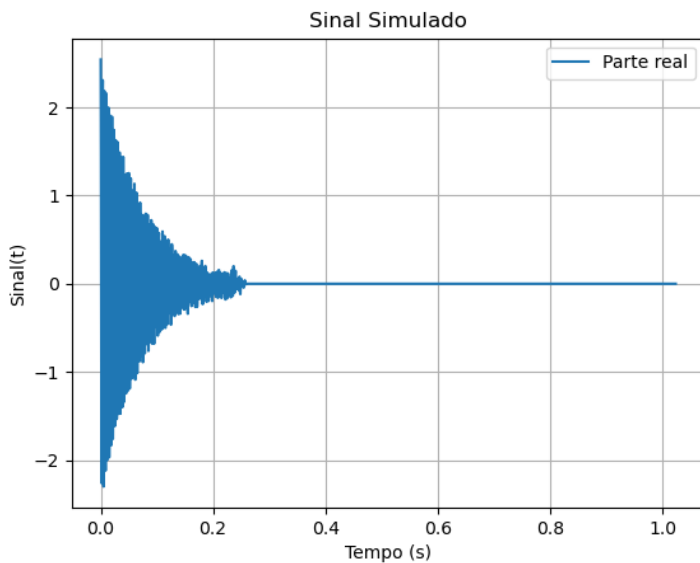
IDTWT do Sinal B filtrado



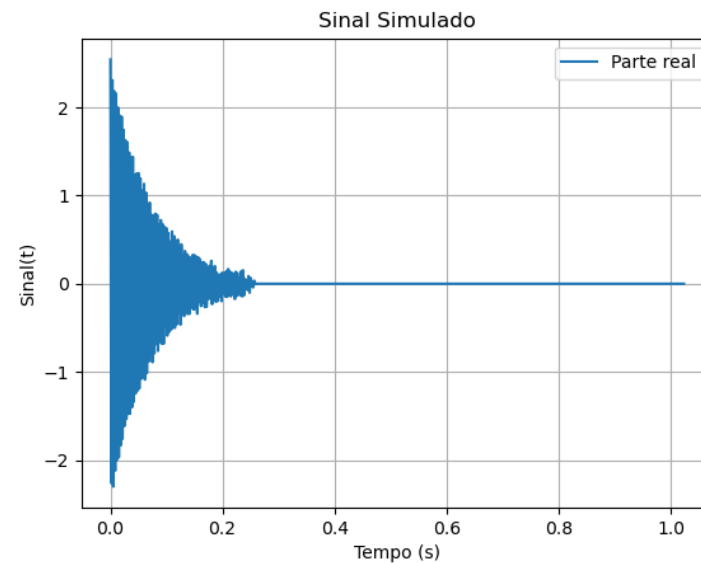
haar



coif1

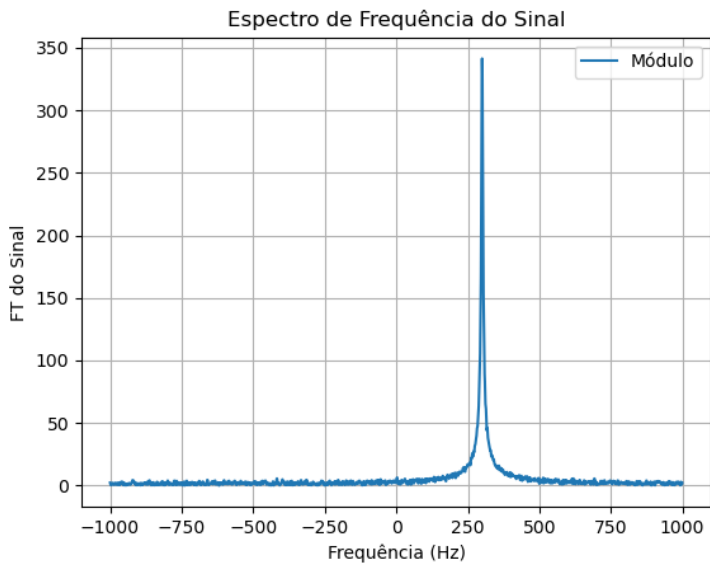


db2

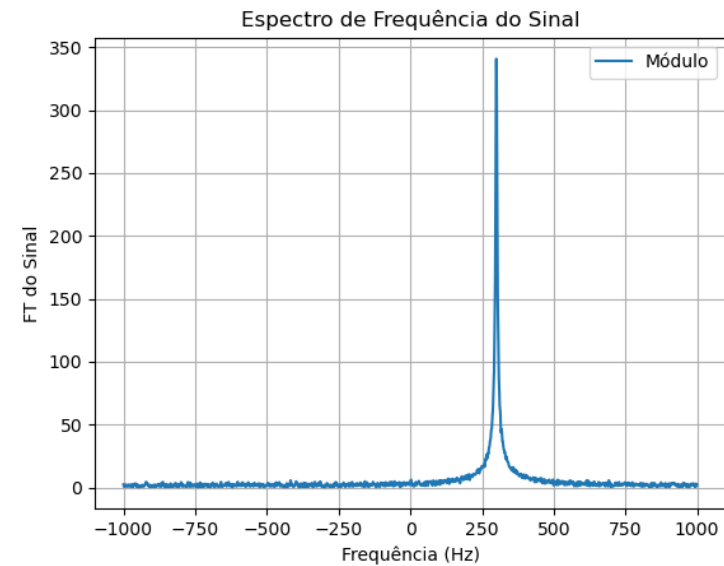


sym2

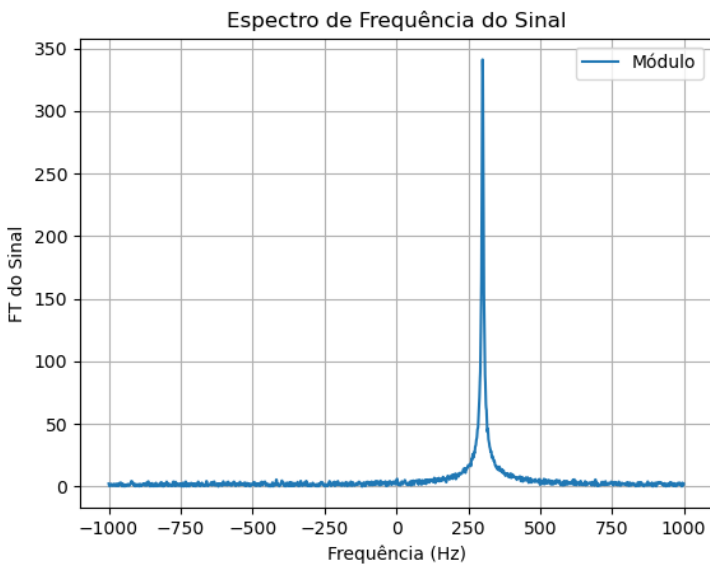
FT do Sinal B filtrado



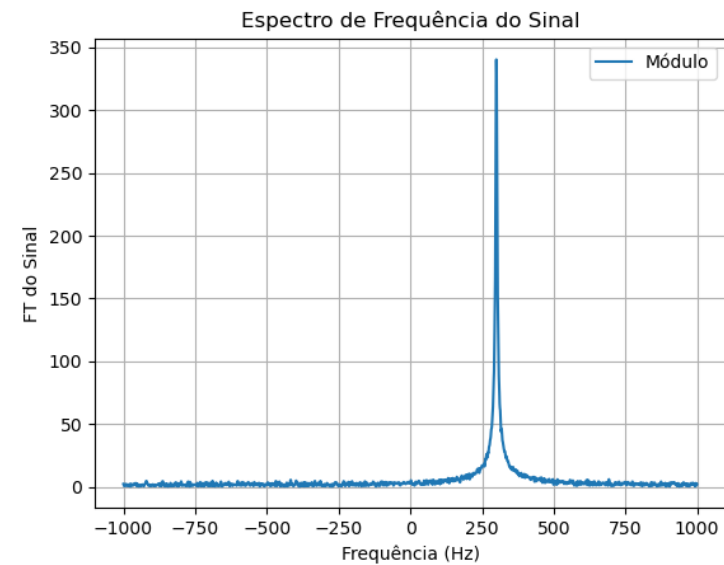
haar



coif1

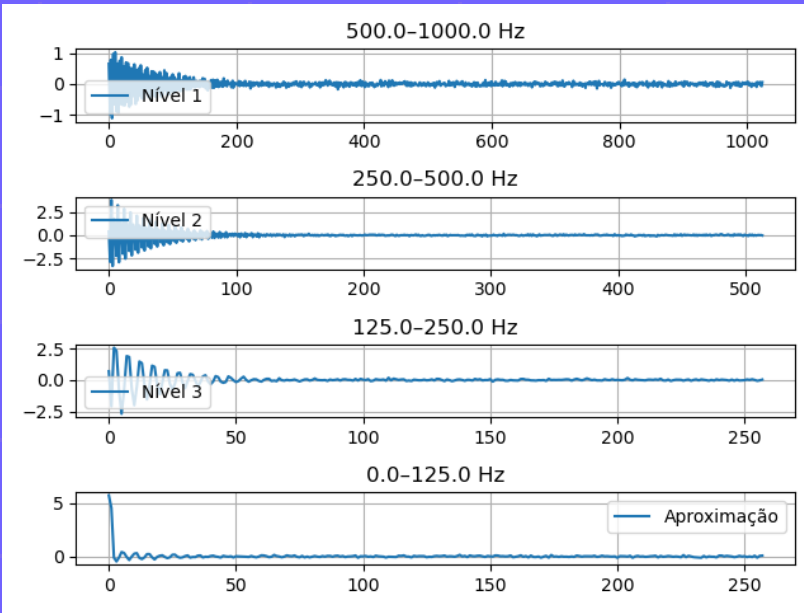


db2

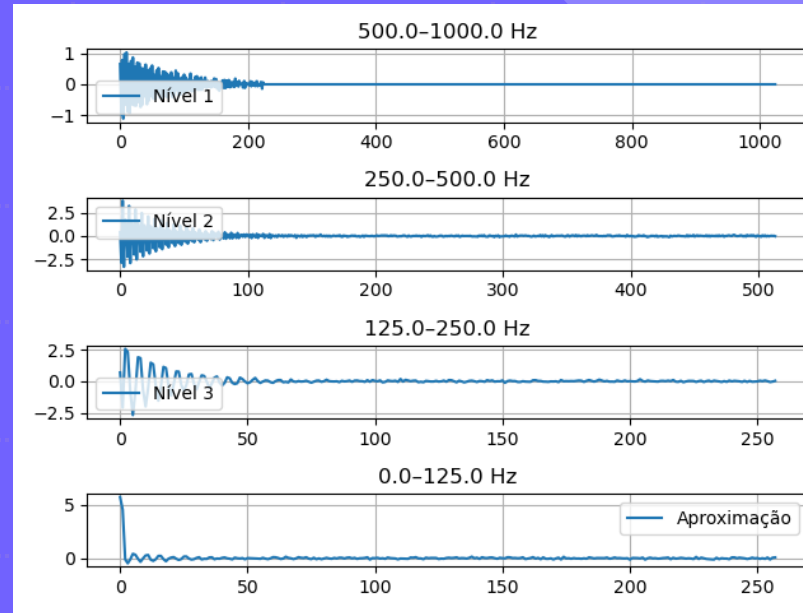


sym2

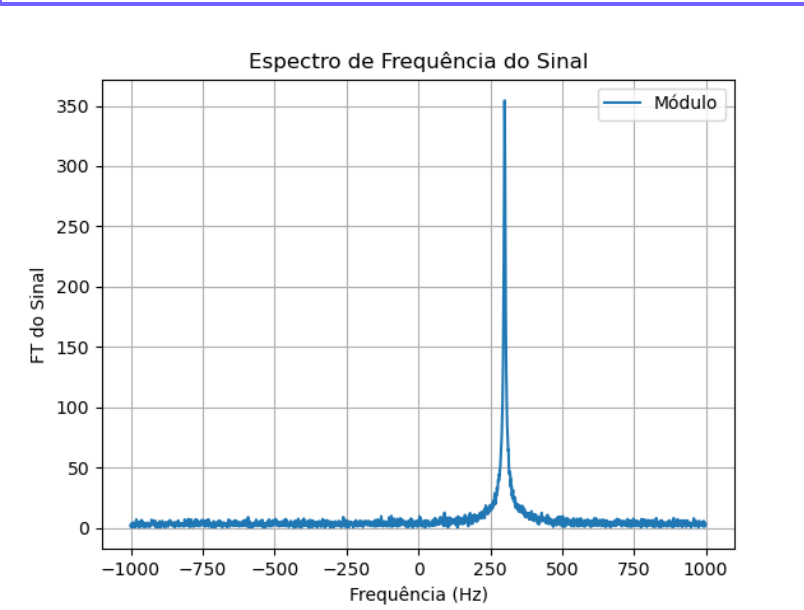
Filtragem em um único nível



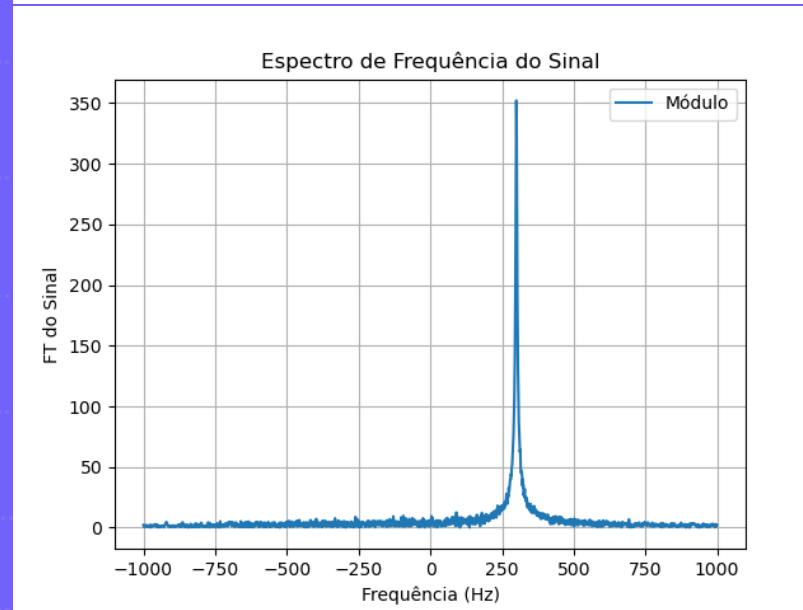
WT do Sinal B original



Filtragem da WT do Sinal B



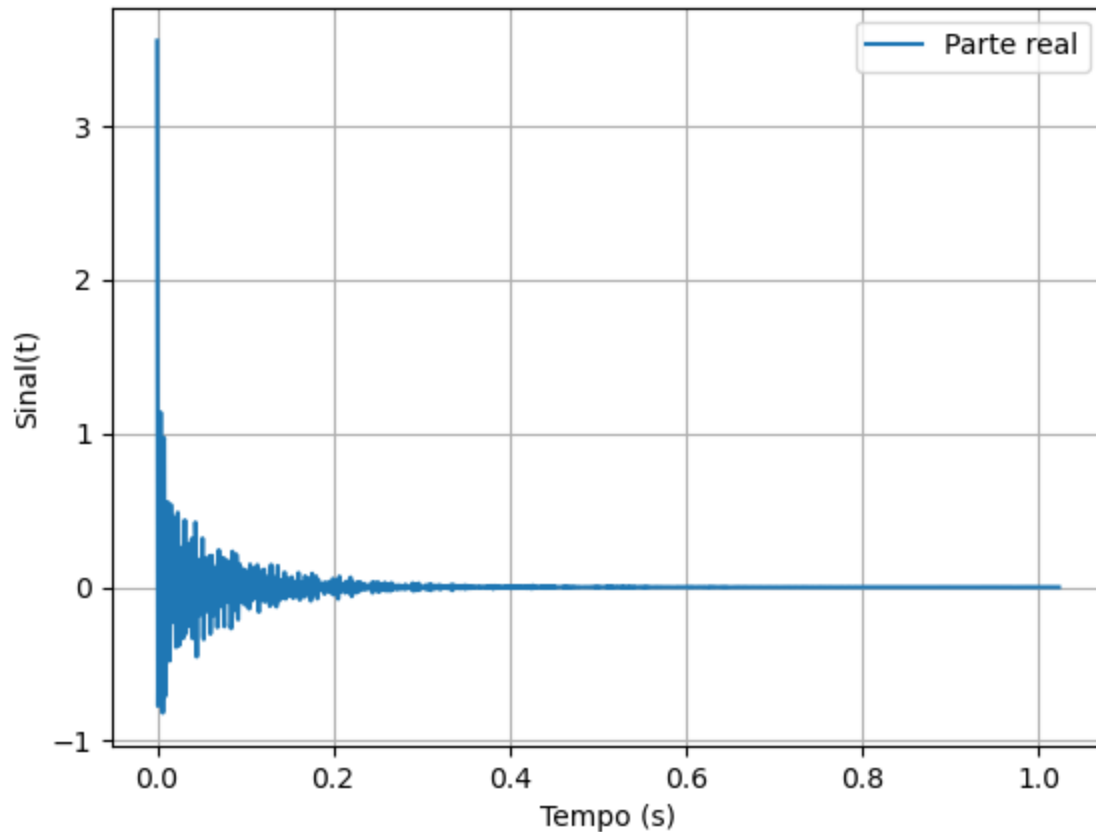
FT do Sinal B



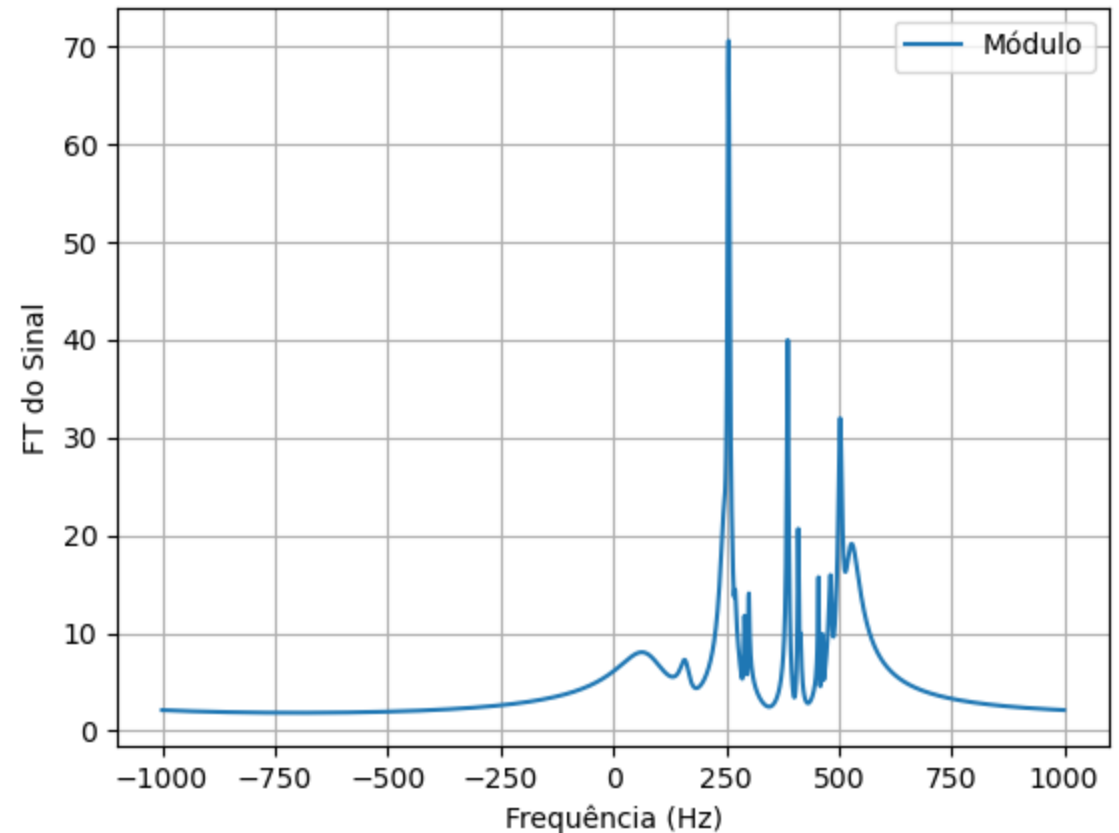
FT resultante

Sinal típico de Ressonância Magnética

Sinal Simulado

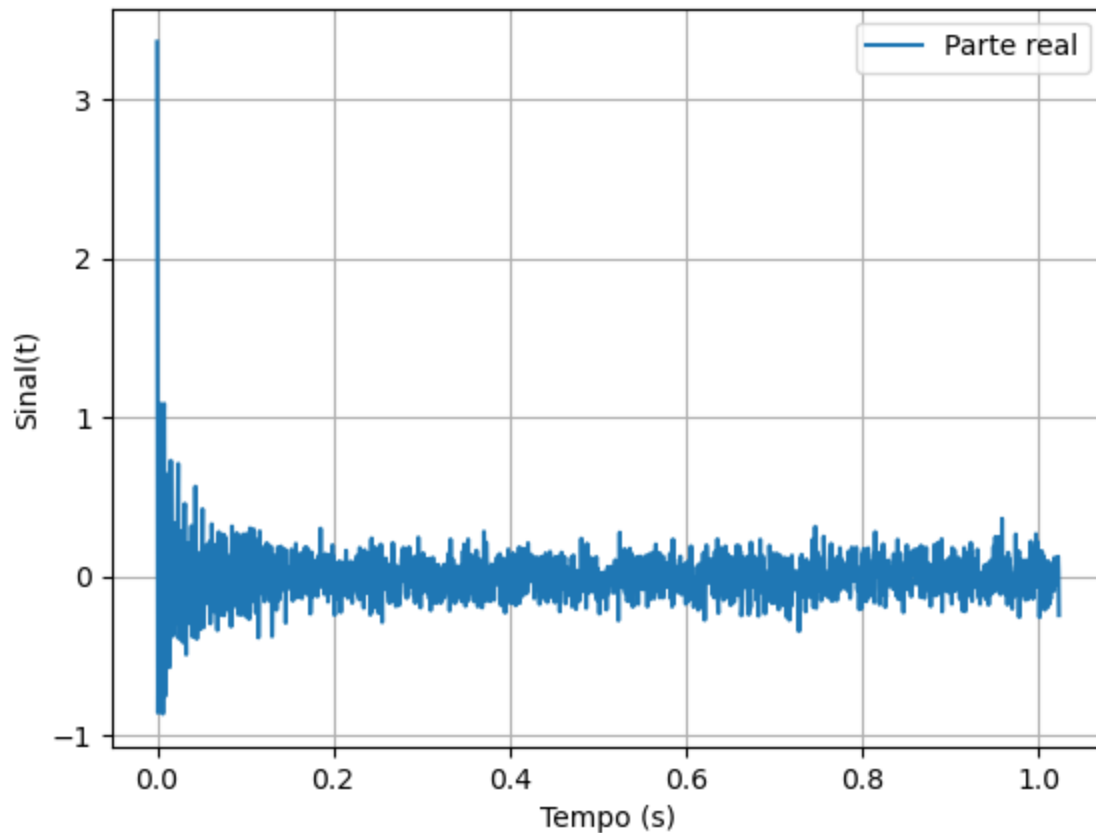


Espectro de Frequência do Sinal

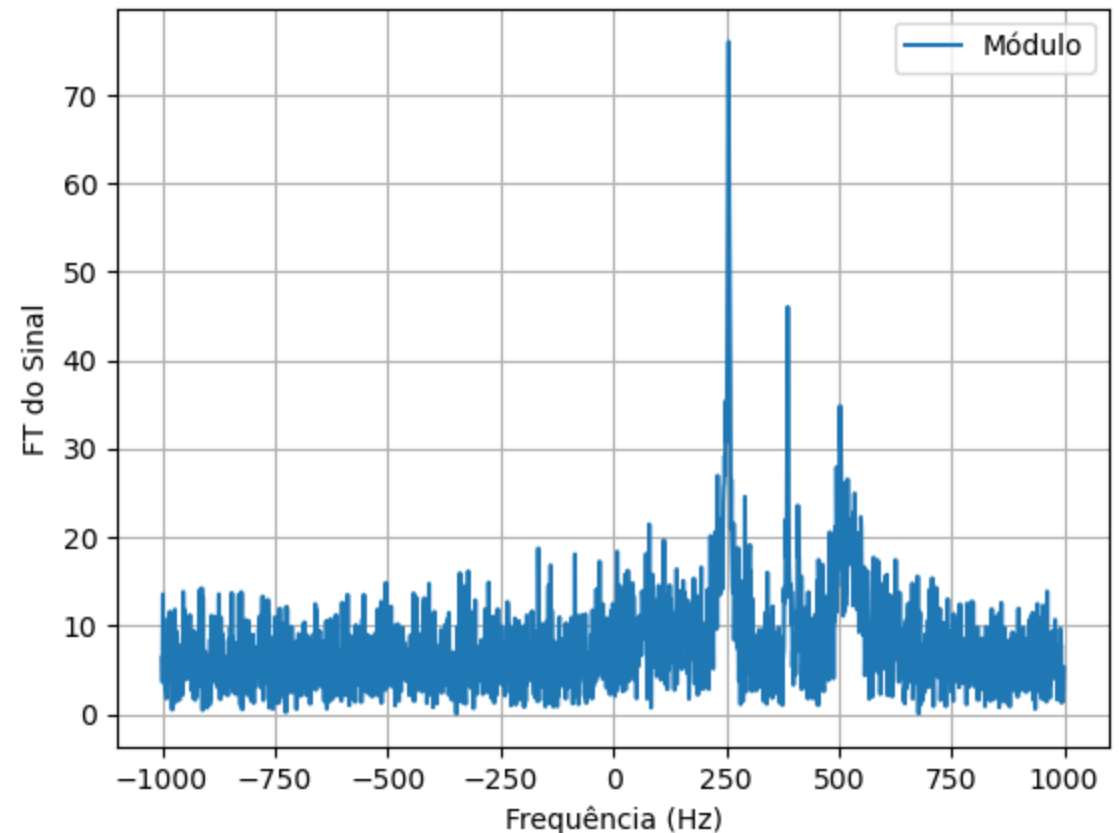


Sinal típico de Ressonância Magnética corroído

Sinal Simulado



Espectro de Frequência do Sinal



Sinal típico de Ressonância Magnética filtrado por Wavelet

