Graphical user interface

Description automatically generated with medium confidenceA picture containing graphical user interface

Description automatically generated

P1 (a)

A picture containing graphical user interface

Description automatically generated

P1 (b) using ifft

P1 (b)

P1 (c)

%% from Figure 1, Im(g)=0 (very small value), g(t) is a real signal

%% from Figure 2, Im(y) is non-zero , y(t) is a complex signal

P2 (b)

P2 (a)

Chart, line chart

Description automatically generatedChart, histogram

Description automatically generated

energy\_time\_domain =

P3

9.2844e+03

energy\_frequency\_domain =

9.2960e+03