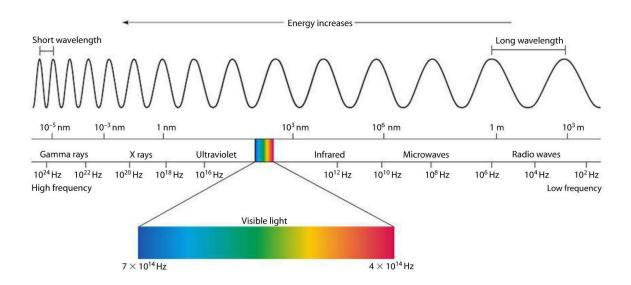
Rectangular Waveguide & Dipole Antenna Design Simulation in CST

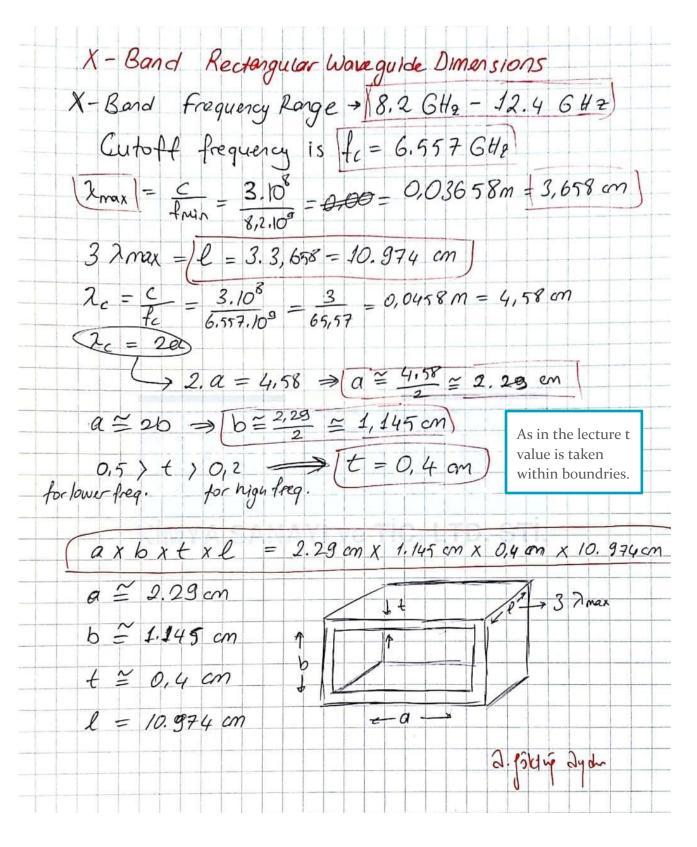


INTRODUCTION TO ENGINEERING APPLICATIONS

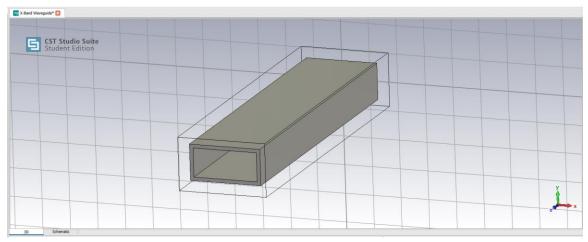
Alp Oral Salman Ayşenur Özer

Ahmed Göktuğ Aydın – 200208054

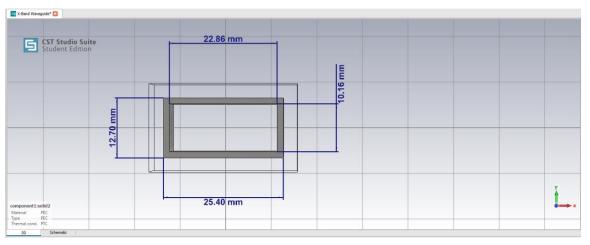
Calculations of Rectangular Waveguide Dimensions



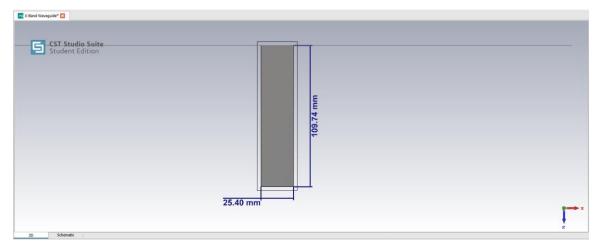
Rectangular Waveguide Dimensions



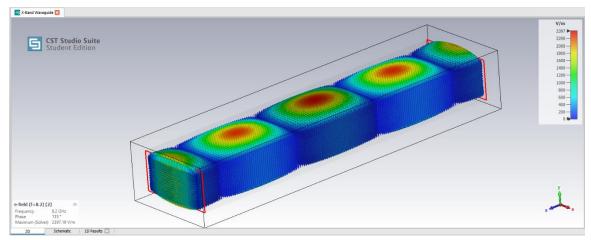
Perspective View



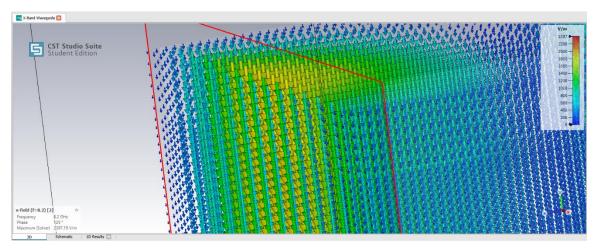
Front View



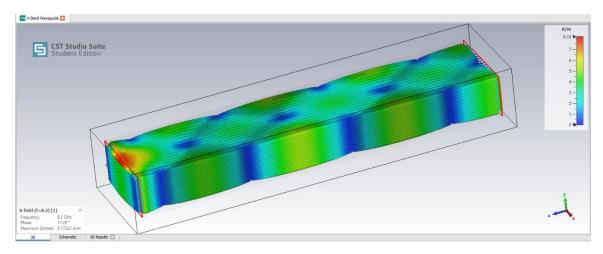
Top View



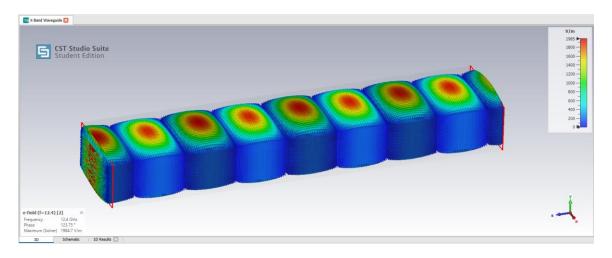
Electric Field at 8.2 GHz



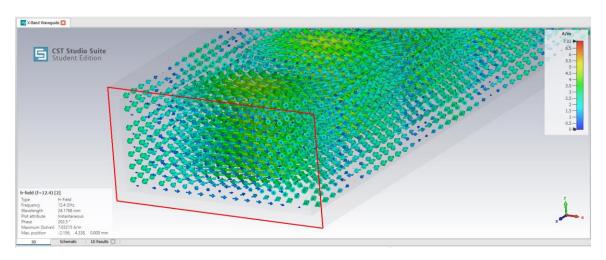
Electric Field Arrows at 8.2 GHz



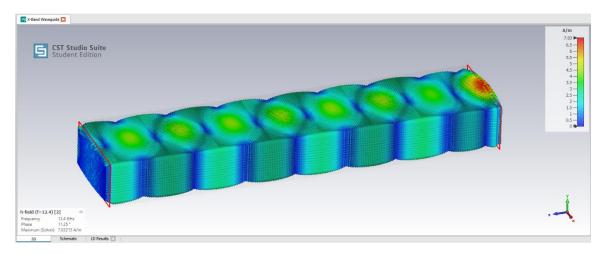
Magnetic Field at 8.2 GHz



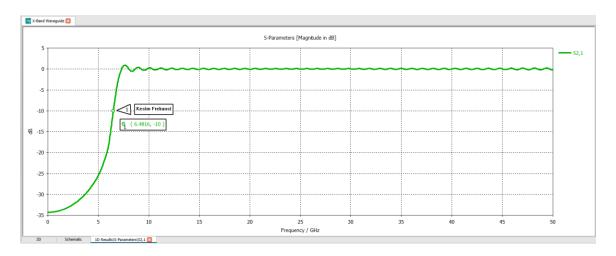
Electric Field at 12.4 GHz



Magnetic Field Arrows at 12.4 GHz

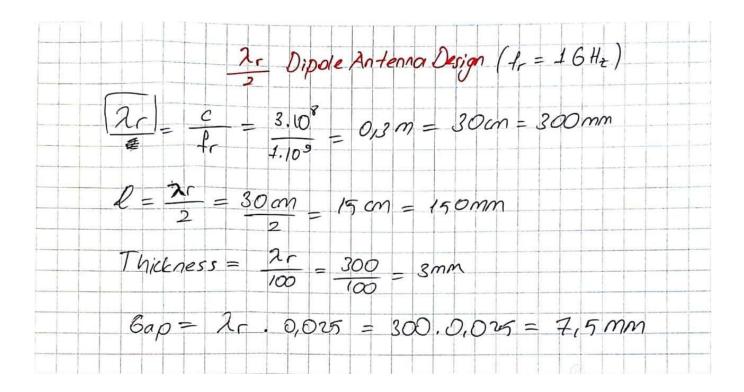


Magnetic Field at 12.4 GHz

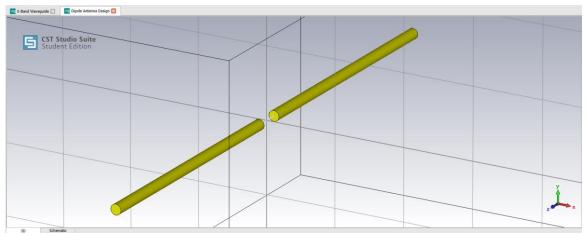


Cutoff Frequency

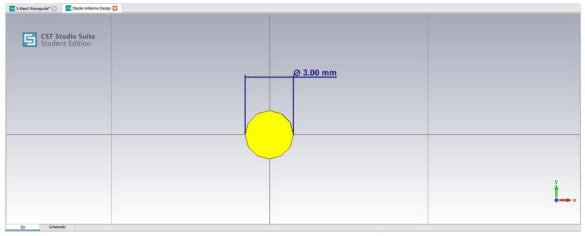
Calculations of Dipole Antenna Dimensions



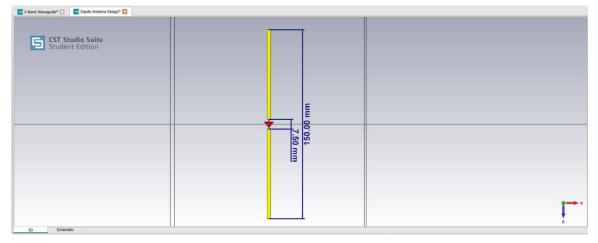
Dipole Antenna Dimensions



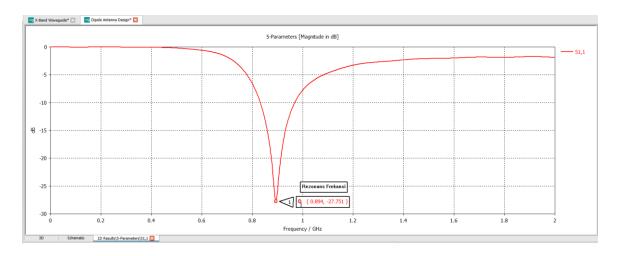
Perspective View



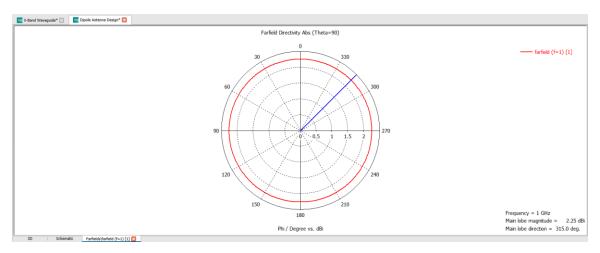
Front View



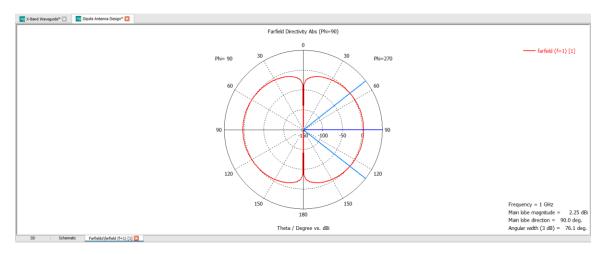
Top View



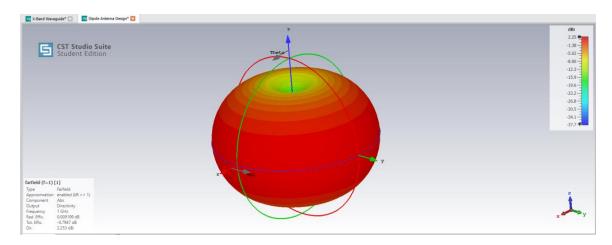
Resonance Frequency



Theta = 90 Degrees



Phi = 90 Degrees



3D Farfield View