

ABSTRACT

The growth of communication technology in modern world is going faster and immeasurable, so a lot of new technology standard emerging progressively and more sophisticated. Antenna take an important thing in telecommunication growth especially in radio communication. On this case, antenna is a device directly connected with transmission media, which have some usefulness. Antenna have function to change the guided wave that passed through transmission line to propagation space.

In this final project had been realized unloaded Vee antenna which has some specification, they are operation frequency 300 MHz-3000MHz under $VSWR \leq 2.0$, 50 Ω coaxial impedance, unidirectional, expected gain is ≥ 5.0 dBi, and linear polarization.

To know antenna's performance whether suit with the specification, we have to measure. In realizing this antenna, had found bandwidth up to 72.6% at 761 MHz-2721.63 MHz under $VSWR \leq 2.0$. While, its gain up to 6.809 dBi at 1650 MHz. Radiation pattern measured is unidirectional and it's polarization in form of ellipse.

Measured result of Unloaded Vee antenna was fit closely with technique specifications. This antenna can be made cheaply and easily and quickly.

Key word : unidirectional, gain, linear, bandwidth, ellipse.