

ABSTRACT

At this final project has done the design and realization of the triangular monopole antenna microstrip-based. This antenna is intended for Ultra Wideband communications applications at frequencies in accordance with the standards Federation Communications Commission is 3.4 GHz to 10.6 GHz with a minimum bandwidth ≥ 500 MHz or 0.25 Bf at $VSWR \leq 1.2$.

In the design process conducted trials the influence of angle of the antenna specification with the number of samples as many as six of 45 °, 60 °, 75 °, 90 °, 105 ° and 120 °. Based on simulation results, the angle is considered to best meet the expected specifications is an angle of 90 °.

After the measurement can be seen that the patch antenna with a 90 ° angle has a gain of 1.226 dB, and has an elliptical polarized omni directional beam direction.

Keyword : Ultra Wideband, VSWR, triangular patch.