

## ABSTRACT

Information requirement which dominant to progressively claim the technology in the field of telecommunications to expand quickly. In radio communications, one part of which big sharing that is antenna peripheral. Antenna represent a peripheral which is used as commensurable among impedance of radio channel with the impedance of space propagation. In this time there are a lot of telecommunications service at high frequency and have Ultra Wide Band, so that required an antenna which can fulfill that. Ultra wide band antenna is designed with the purpose to be able to bring the signal information for various service and economize energy.

Antenna design at this final task is a type of antenna tricola uni ultra wideband exponential. Method of commensurable exponential used to overcome the above frequency 300 MHZ required in research by various application at service in frequency.

Tricola antenna to be designed represent the antenna which compiled by three of transmission channel owning terminal impedance 50 Ohm SMA without Ferrite (monopole) with the unidirectional radiation pattern at  $VSWR \leq 1,5$  and Gain measured.

**keyword:** *exponential, unidirectional, monopole*