ABSTRACT

Start by hypothesis that "*Antenna is a construction of transition of a matching between intrinsic impedance of propagation spaces with characteristic impedance of radio"* the final project is one of some development from same antenna which have been conducted by in STT Telkom as the hypothesis verification. The realizations of antenna use the concept of microstrip line without using commensurable transformer. Antenna to be made the in form of pentagon. The experiment work at frequency 2400 MHz (± 500 MHz) with VSWR ≤ 1,2 to examine this specification.

For the result of this final project with Dwicula Tschebyscheff Pentagonal Antenna topic, it reaches 177,33 MHz for it bandwidth, omni directional pattern, linier polarization, and 7,01 dBi gain or 1000 MHz for it bandwidth in VSWR ≤ 1,9.

Keyword : bandwidth, polynomial Tschebyscheff, microstrip