

ABSTRACT

Communication technologies in the future are expected to integrate more than one system of communication into one space or confined area. That way, the antenna terminal of communication on the future is not just created for the lightweight tool and single function but also be qualified of operating at triple band or multiband that good enough to cover the possible band operation. Therefore, it's needed an antenna that is able to meet the various needs of the different communication.

Microstrip antenna is an antenna that has a small, lightweight and easy to manufacture. The antenna consists of a groundplane, the substrate and many variety of patches. One form of the patch is Shaped Rectangular Patch Antenna. Rectangular microstrip antenna has a simple dimensional (compact), easy to modify and can be developed into a multi-frequency antenna.

This Final Task is conducted by scheme and realization of antenna microstrip of U-Shaped Patch which can be applicated can for the tripleband of frequency. The final goal of this final task is laboring antenna mikrostrip to operate for the multiband by frequency 1.8 Ghz ,2.7GHz that shifted to 2.9GHz and 3.5 GHz with VSWR ≤ 2 but effective according to specification of its antenna. Other specification for the antenna radiation pattern is desired unidirectional and gain of 6.29 dBi can be achieved.

Key Word:Key words : triple-Band. Microstrip Antenna, U-shape