

Design of Dual-Band B-Shaped Monopole Antenna for MIMO Application

Author(s)

H. U. Iddi; M. R. Kamarudin ; T. A. Rahman ; R. Dewan

Abstract

A dual-band B-shaped monopole antenna for MIMO application is presented. The proposed antenna consists of B-shaped element which operates at dual band frequencies of 2.45GHz and 5.8GHz. The prototype has been fabricated and when tested, the impedance bandwidths are 29.9% and 33.8% for 2.45GHz and 5.8GHz, respectively. Good agreement between the measurement and simulation results in term of return loss and radiation pattern have been obtained.

Keywords

Antenna arrays

Antenna measurements

Antenna radiation patterns

Dual band

MIMO