



MAVID-3M Antenna

Product Data Sheet

Revision: 1.0

Manufacturer: Libre Wireless Technologies, Inc.

Model: MAVID-3M

Antenna Type: PCB

Antenna Gain: 0.81dBi

Libre Wireless Technologies Private Limited

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1. Document Information

1.1. Abstract

This document explains PCB Antenna Data Sheet of MAVID-3M.

1.2. Document Convention

Icon	Meaning	Description
	Note	Provides information good to know
	Caution	Indicates situation that might result in loss of data or hardware damage

1.3. Document Revision History

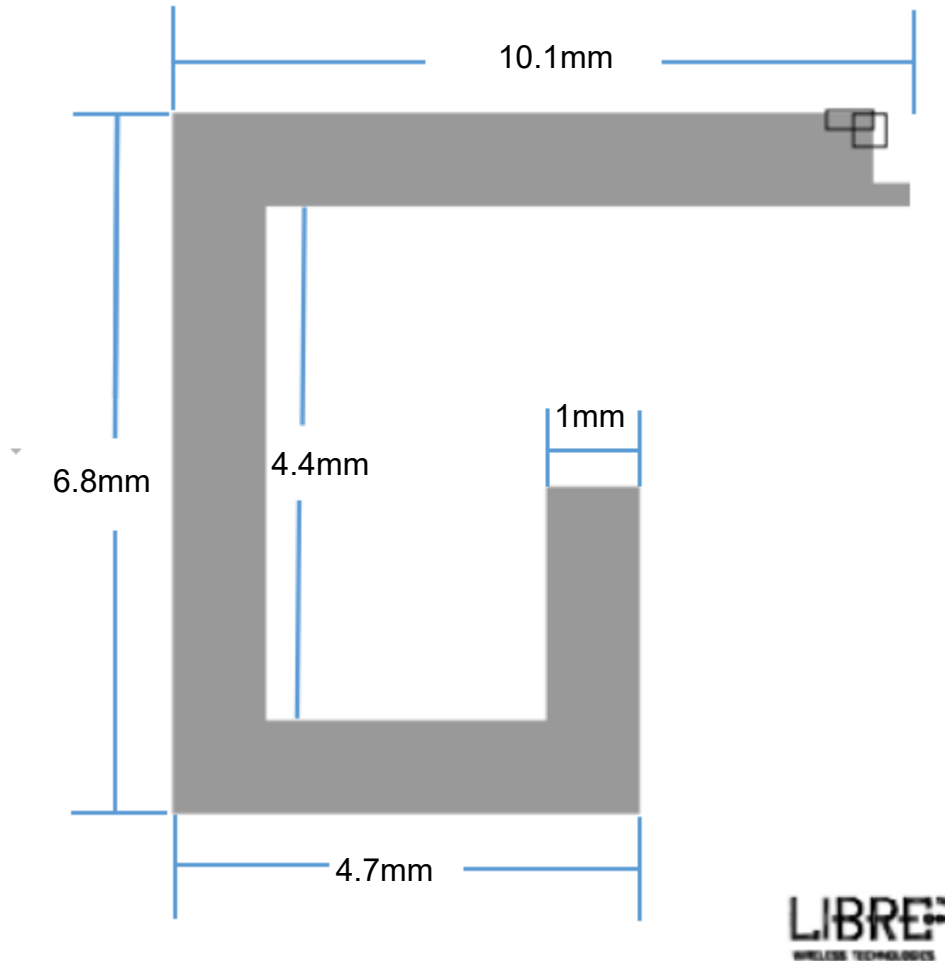
Revision	Date	Description of change	Author
0.1	July 20, 2022	Initial Draft	Chandravel

2. Introduction

2.1. Design

MAVID-3M module utilizes a PCB antenna.

Antenna design drawing:



3. Antenna Measurement Results

3.1. S - parameter

MAVID-3M module onboard PCB antenna S11 test results are shown below:

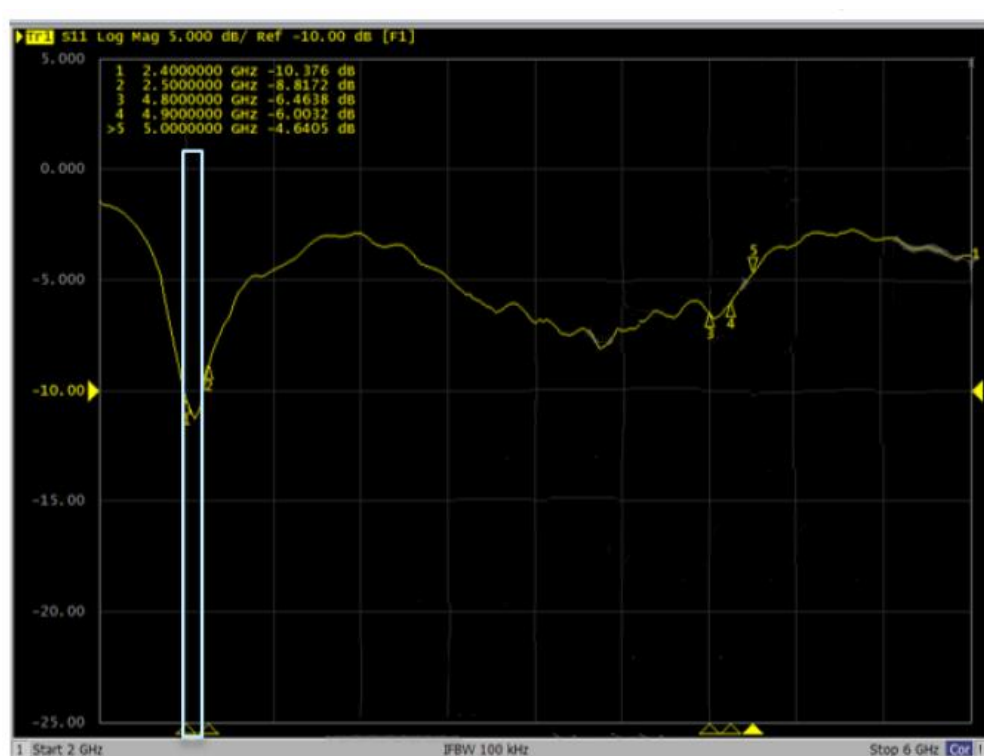


Figure 3.1-1: MAVID-3M onboard PCB antenna S11 test results

3.2. Efficiency

MAVID-3M module onboard PCB antenna efficiency test results are shown in the table below:

Frequency	Efficiency
2000 MHz	60%
2450 MHz	60%
2500 MHz	52%

3.3. Gain

MAVID-3M PCB Antenna gain is 0.81dBi.

3.4. Radiation Pattern

MAVID-3M module onboard PCB antenna 3D radiation patterns at 2450 MHz test results are as below:

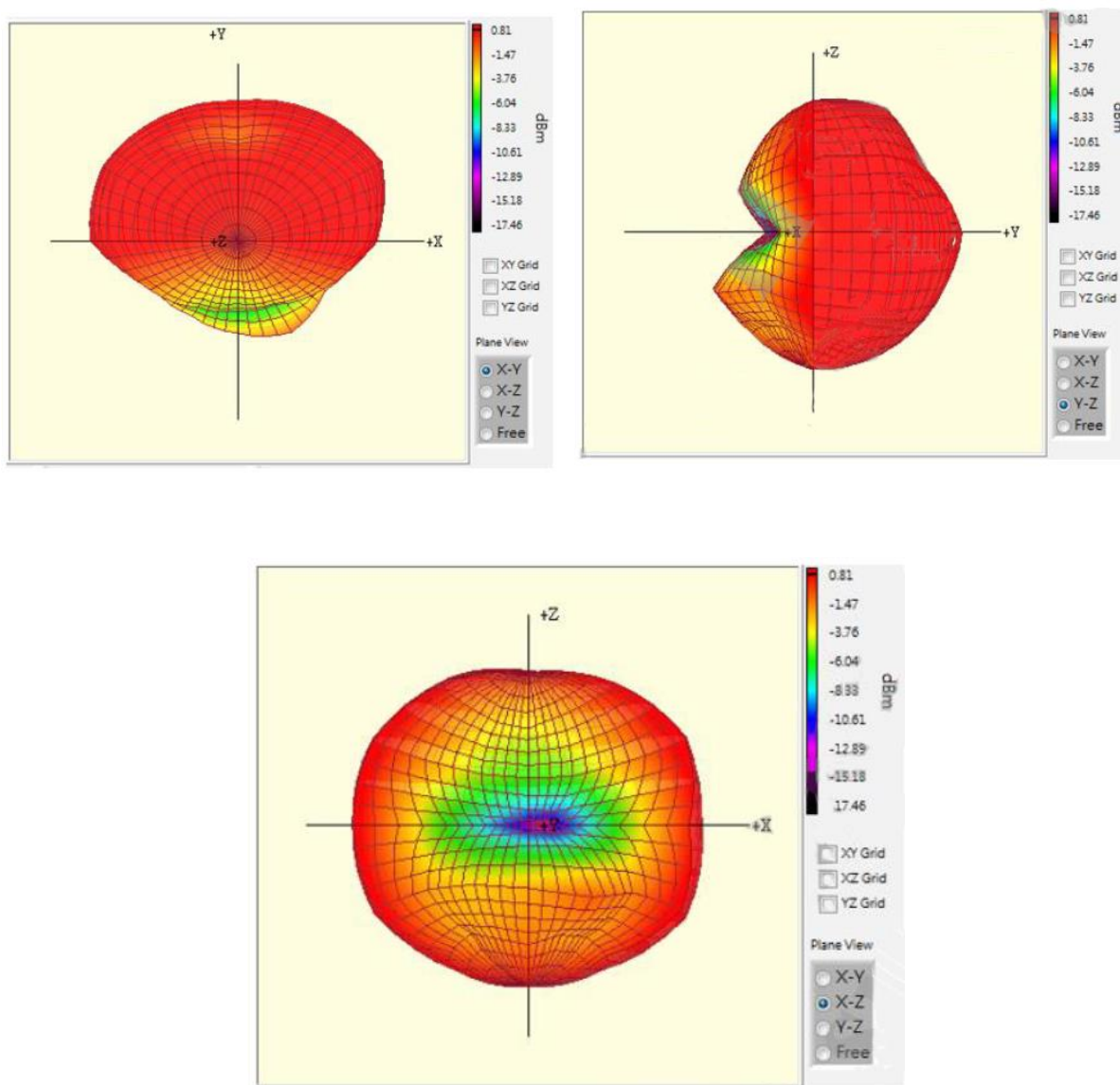


Figure 3.3-1: 3D Radiation pattern at 2450MHZ