Antenna Gain Test Report

Equipment: Watch Phone

Brand Name: imoo

Model Name: W2432AO

Manufacturer： IMOO INTERNATIONAL PTE. LTD.

9 RAFFLES PLACE #26-01 REPUBLIC PLAZA SINGAPORE (048619)

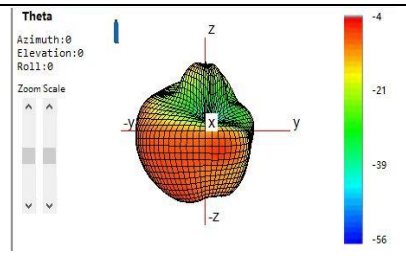
Issue Date: 5.19.2025

Antenna Gain and Antenna Type specification:

Band		ANT	Antenna Gain (dBi)	Antenna model	Antenna Type	Manufacturer
2.4G WIFI	2400-2483.5MHZ	Ant1	-4.5	GLI32	IFA(Inverted FAntenna)	imoo
5G WIFI	5150~5250 MHZ	Ant1	-5.5db	GLI32	IFA(Inverted FAntenna)	
	5250~5350 MHZ	Ant1	-4.3db	GLI32	IFA(Inverted FAntenna)	
	5470-5725 MHZ	Ant1	-5db	GLI32	IFA(Inverted FAntenna)	
	5725-5850 MHZ	Ant1	-4 db	GLI32	IFA(Inverted FAntenna)	
BT	2400-2483.5MHZ	Ant1	-4.5db	GLI32	IFA(Inverted FAntenna)	

Note: Antenna gain was measured in the anechoic chamber, 3D scan wasexercised, and the highest numbers are reported in this document. According to Test standard: IEEE Std 149-2021, we measure antenna gain.

Antenna Radiation Pattern:

	2.4G&5G	
WIFI2.4G/BT		

TEST EQUIPMENT

NO.	Equipment	Manufacturer	Model No.	Cal date	Test Software
1	GTS-2800	GTS	GTS-2800	2024-05	MaxSign 1.3
2	Rohde-Schwarz-ZNB20	Rohde-Schwarz	ZNB20	2024-04	R&S ZNB Vector Network Analysis

Measurement Setup:

A. Reflection Coefficient Measurement:

Instrument: Network Analyzer (Rohde-Schwarz-ZNB20)

Setup:

1. Calibrate the Network Analyzer by one port calibration using GTS-2800 Electronic calibration module.
2. Connect the antenna under test to the Network Analyzer.
3. Measure the S11 (reflection coefficient), Return Loss....

B. Pattern Measurement:

A Fully Anechoic Chamber is used to simulate free-space conditions.