

Antenna Report

Model No: HM24BR

FCC ID: 2BFEG-9398

Frequency Range of operation: 2.402GHz-2.480GHz

Antenna Types: PCB-Onboard

Peak Antenna Gain: 2.51dBi

- 1) Maintain the test ambient temperature of 23 ± 2 C, the instrument is powered on and preheated for more than 30 minutes;
- 2) Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard;
- 3) Outline sets the test content objectives and conducts calibration tests;
- 4) Run the software, when the test is completed, export the corresponding test diagram and test data, and save to the corresponding directory.

Test Equipment calibration information:

Name	Manufacturer	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
Network Analyzer	Agilent	E5071C	MY46630767	2024.4.24	2025.4.23
Network Analyzer	Agilent	E5071C	MY46630767	2024.4.24	2025.4.23
Microwave chamber	GTS	GTS Maxsign-Dart7000		2024.4.14	NA
Turn table	GTS	Dart-700 turn table		2024.4.14	NA
turn table controller	GTS	Dart-700 turn table controller		2024.4.14	NA
Broad-Band Horn Antenna	GTS	AT-6000	MA-D0460	2024.4.14	NA
Test Software	GTS	Libra Version-3.0.3.1		2022.8.23	2024.8.23

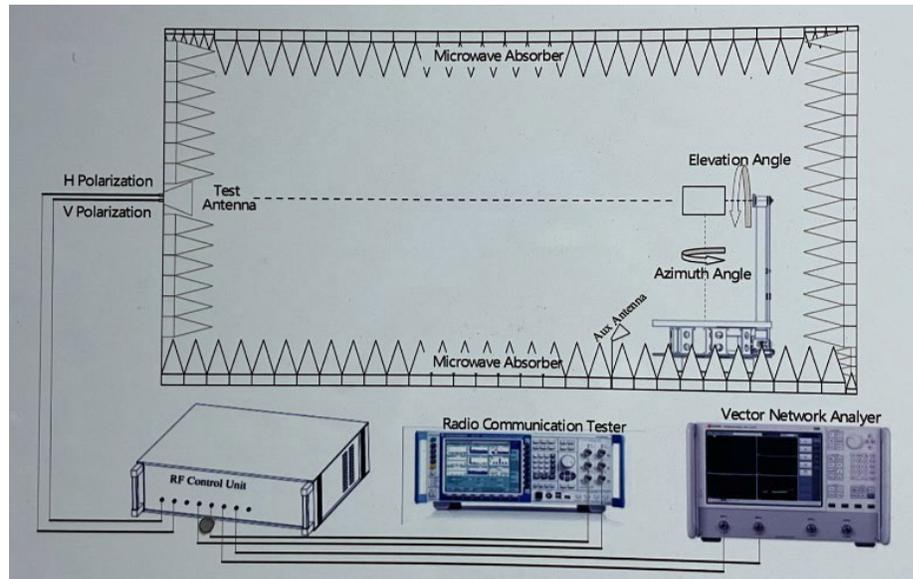
Company: Tonly Technology Co., Ltd.

Test site information: Address: Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, 516006 China

Test date : 2024-06-15

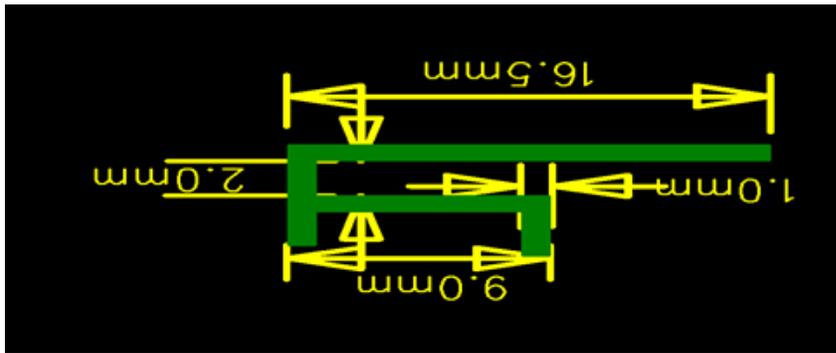
Test engineer information: 周翊 Austin.zhou

Test Set up:



Test setup photo (Please refer to Antenna photos document)

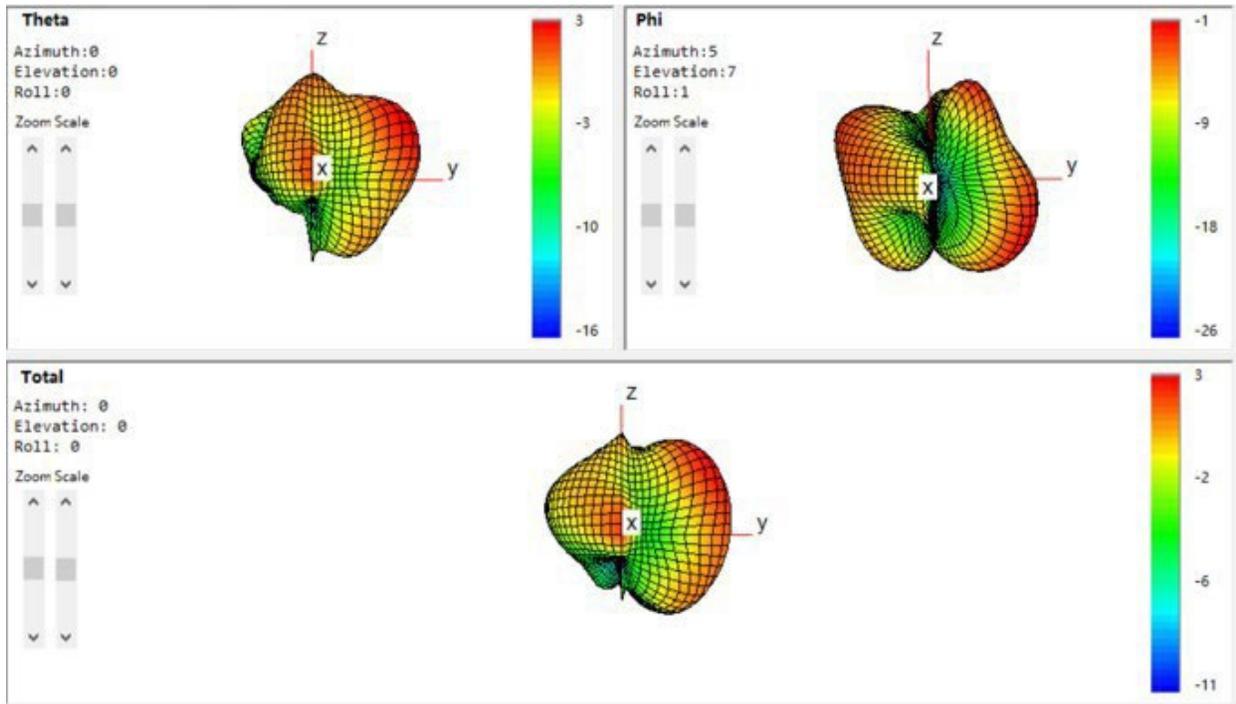
Antenna Size (mm)



Antenna Performance:

Freq(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-2.24	59.74	2.41
2410	-2.34	58.4	2.41
2420	-2.37	57.99	2.36
2430	-2.23	59.86	2.4
2440	-2.14	61.14	2.50
2450	-2.29	58.99	2.41
2460	-2.31	58.8	2.44
2470	-2.19	60.4	2.49
2480	-2.25	59.6	2.45
2490	-2.12	61.33	2.51
2500	-2.51	56.05	2.27

Antenna radiation pattern (3D)



Antenna radiation pattern (2D)

