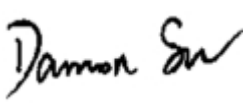
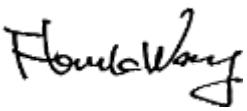
海蕴
HAIYUN

EMC TEST REPORT

Test Report No.:	RF240905001-01-001
Product(s) Name:	Bluetooth Module
Model(s):	BM-BT-001 Antenna
Trade Mark:	N/A
Applicant:	Lollipop Technology (Hangzhou) Co., Ltd.
Address:	F19, Dongguan Building, No.618, Jiangnan Avenue, Binjiang District, Hangzhou, Zhejiang, China
Manufacture:	Lollipop Technology (Hangzhou) Co., Ltd.
Address:	F19, Dongguan Building, No.618, Jiangnan Avenue, Binjiang District, Hangzhou, Zhejiang, China
Antenna Type:	PCB Antenna
Receipt Date:	Sept.10, 2024
Test Date:	Sept.10, 2024 to Sept.13, 2024
Issued Date:	Sept.13, 2024

Prepared by	Reviewed by	Approved by	
Elma.Yang	Damon Su	Flank Wang	
			

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Release Control Record

Issue No.	Description	Version No.	Issued Date
RF240905001-01-001	Original release.	1.0	Sept. 13, 2024

1 Purose & Environment

1.1 PUROSE

- Meet the electrical performance index;
- Confirm the antenna scheme to meet the design requirements;

1.2 ENVIRONMENT

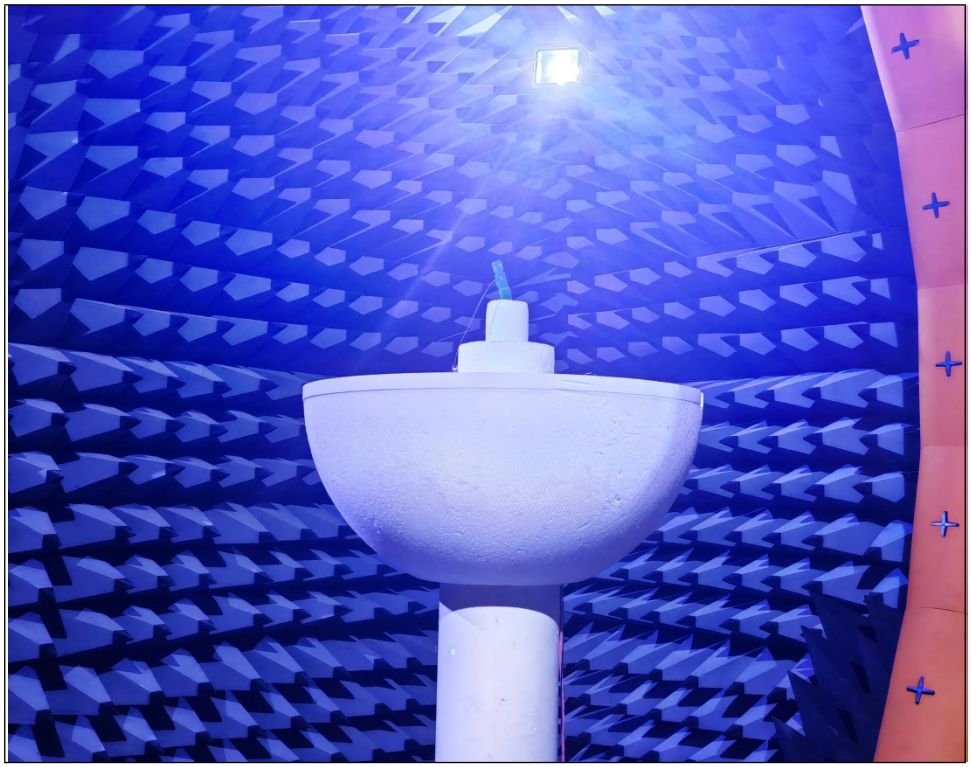
- Test Condition: the network analyzer(E5071C) and SATIMO microwave anechoic chamber
- Passive measurement results are presented

1.3 TEST SITE DETAILS

Test Lab:	Shenzhen Haiyun Testing Co., Ltd.	
Address:	Room 201, #3 factory, Gongjin Electronics, Shatian, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China	
TEL:	+86-755 26021222	
Web.:	http://www.hy-lab.cn/	
Email:		
The Authorization Information:		
CNAS	Registration No.:	
FCC	FRN No.:	
	Test Firm No.:	
ISED	Company No.:	
	CAB identifier No.:	

2 Test photos、Test Condition and DUT Antenna

2.1 Test photos

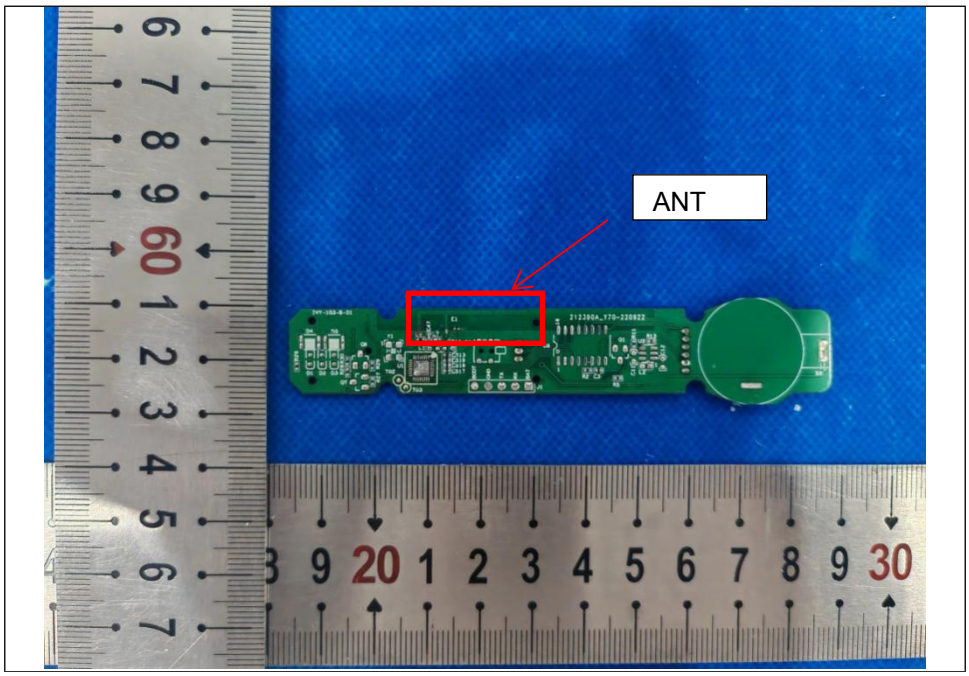


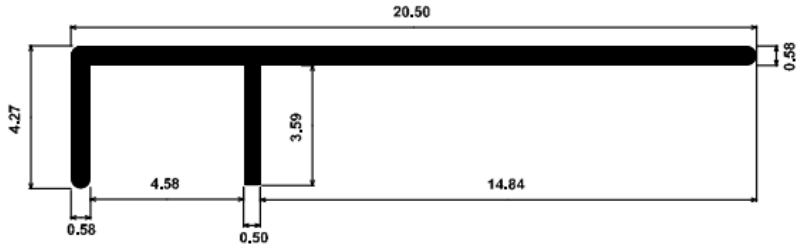
Microwave anechoic chamber

2.2 Test Condition

The network Analyzer

2.3 DUT Antenna





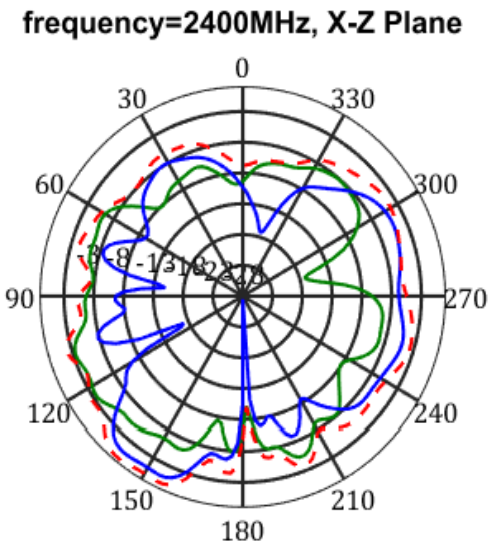
unit : MM

3 2D Radiation pattern

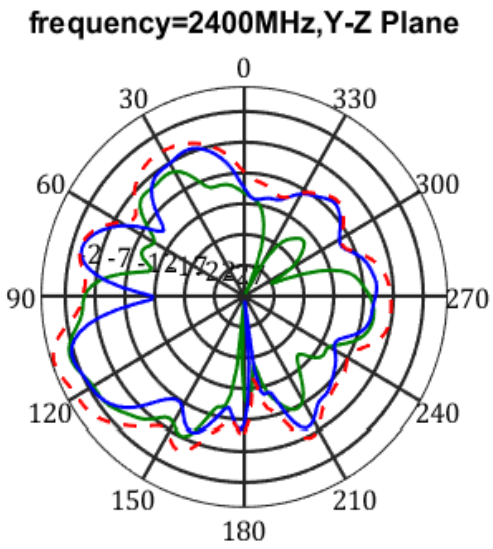
3.1 2D Radiation pattern test results

Antenna 2D_2400

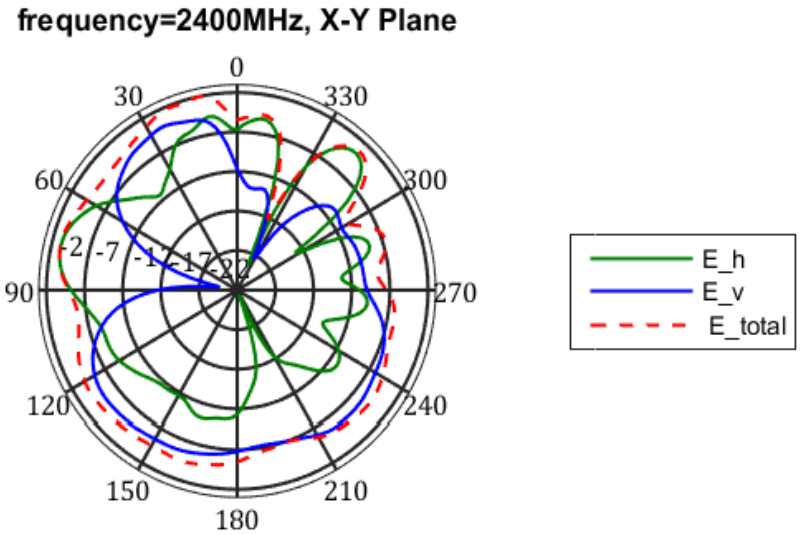
2D Pattern: @phi=0



2D Pattern: @phi=90

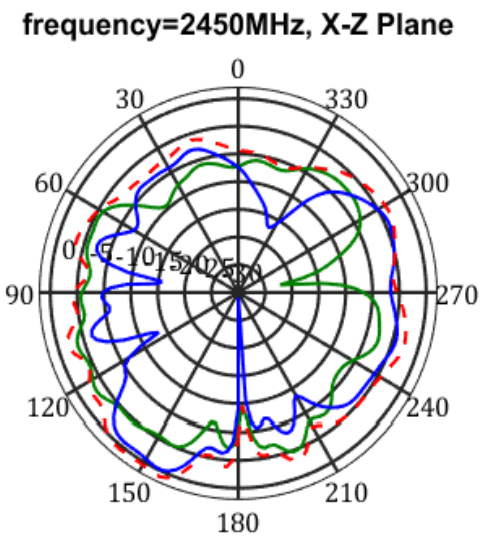


2D Pattern: @theta=90

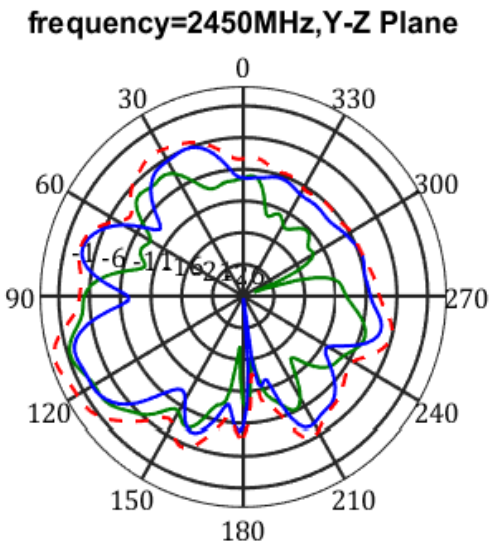


Antenna 2D_2450

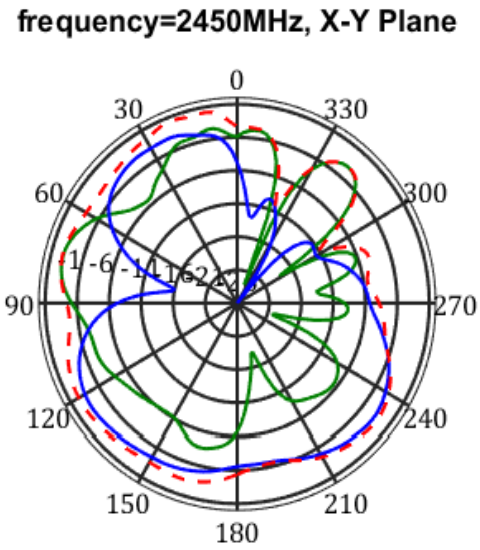
2D Pattern: @phi=0



2D Pattern: @phi=90

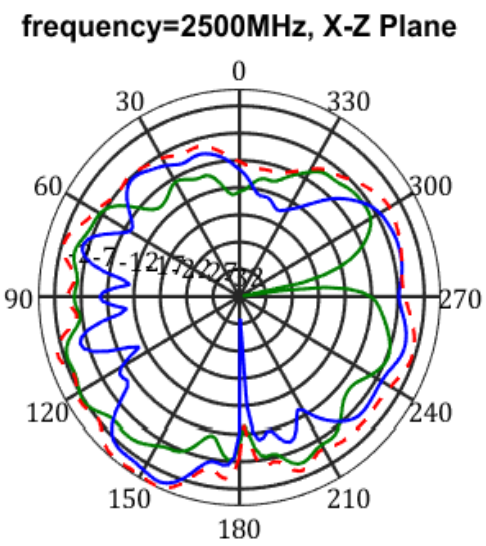


2D Pattern: @theta=90

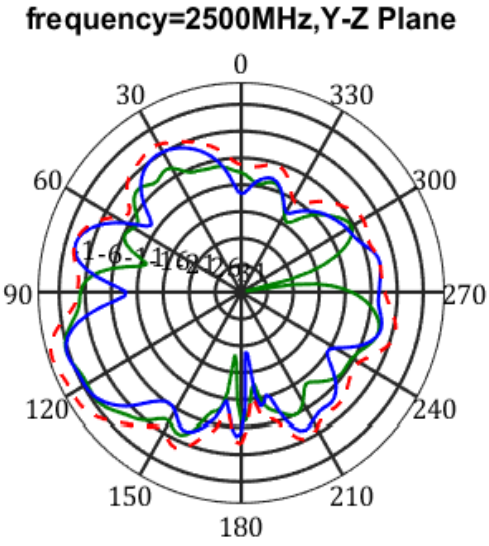


Antenna 2D_2500

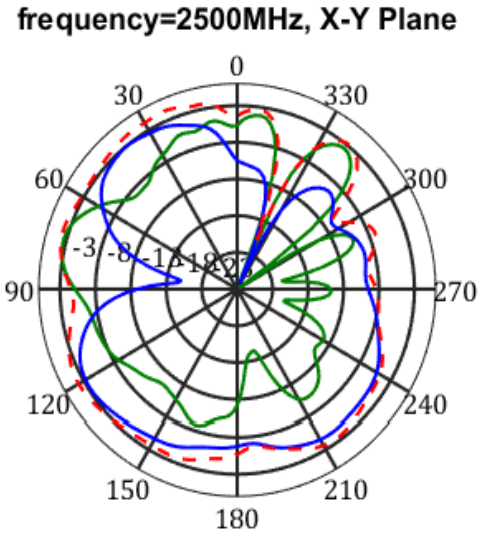
2D Pattern: @phi=0



2D Pattern: @phi=90



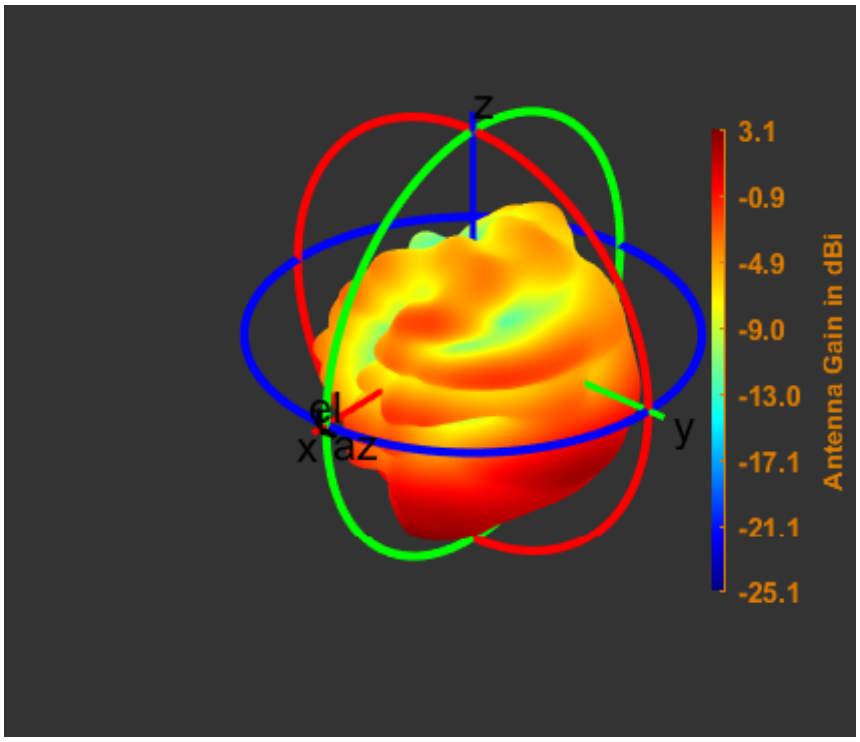
2D Pattern: @theta=90



4 3D Radiation pattern

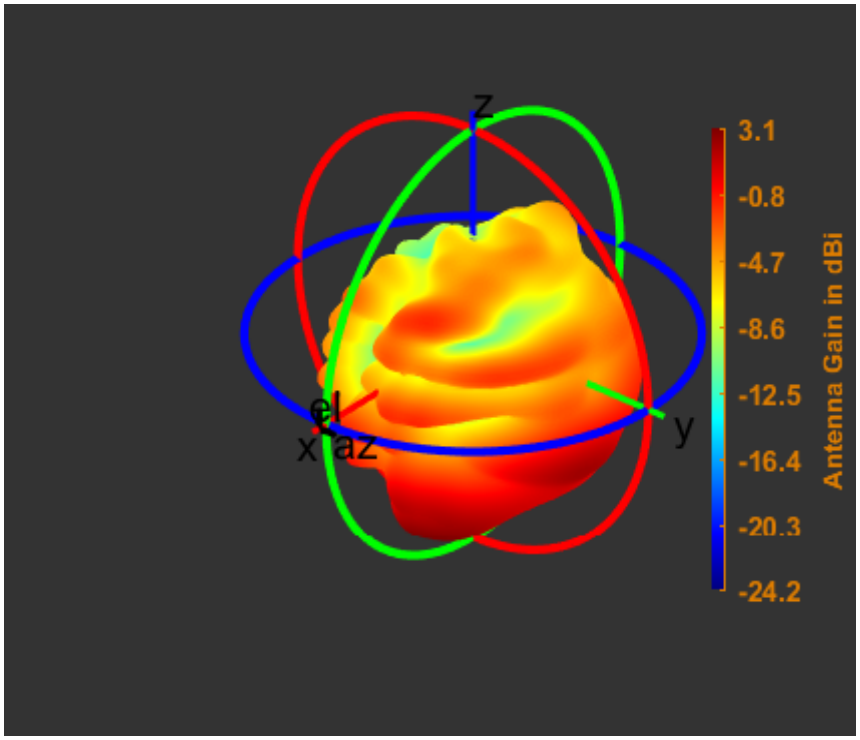
4.1 3D Radiation pattern test results

Antenna 3D_2400



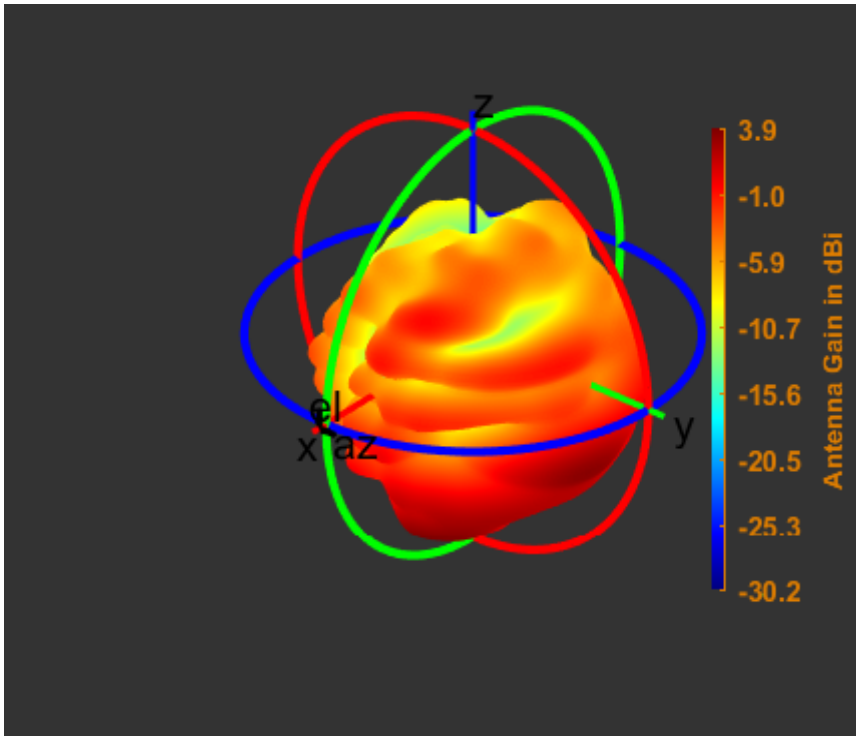
x-axis: red
y-axis: green
z-axis: blue

Antenna 3D_2450



x-axis: red
y-axis: green
z-axis: blue

Antenna 3D_2500



x-axis: red
y-axis: green
z-axis: blue

5 Peak Gain

5.1 Test results

Antenna_Peak Gain	
Frequency (MHz)	Gain(dB)
2400	3.1416
2410	2.4468
2420	3.1673
2430	3.6524
2440	3.0879
2450	3.1094
2460	3.2855
2470	3.4932
2480	2.8127
2490	3.3057
2500	3.8584

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Testing Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Testing Co., Ltd.

Address: Room201, #3 Factory, Gongjin Electronics, Shatian, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Tel: 0755-26024411

Zip Code: 518118

E-mail: service@hy-lab.cn

**** End of report ****