



# TEST REPORT

**APPLICANT** : Linhai Yixin Photoelectric Technology Co.,Ltd

**PRODUCT NAME** : PCB antenna

**MODEL NAME** : B-ANT002

**TRADE NAME** : N/A

**BRAND NAME** : N/A

**STANDARD(S)** : IEEE Std 149-2021

**RECEIPT DATE** : 2024-10-17

**TEST DATE** : 2024-10-17

**ISSUE DATE** : 2024-10-21



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Change History		
Version	Date	Reason for change
1.0	2024-10-21	First edition



# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	Linhai Yixin Photoelectric Technology Co.,Ltd
<b>Applicant Address:</b>	No. 3-58, Datian Liu village, Datian district, Linhai City, Zhejiang Province China
<b>Manufacturer:</b>	N/A
<b>Manufacturer Address:</b>	N/A

## 1.2. Equipment Under Test (EUT) Description

<b>Wireless Type</b>	Bluetooth
<b>Frequency</b>	2400MHz-2500MHz
<b>Antenna Type</b>	N/A
<b>Product HW Version</b>	N/A
<b>Product SW Version</b>	N/A
<b>IMEI</b>	N/A
<b>Sample No.</b>	1#



## 2. Test Results

### 2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE Std 149-2021	IEEE Recommended Practice for Antenna Measurements

### 2.2. Test Conditions

Test Environment Conditions:

Relative Humidity(%):	25 - 75
Temperature(°C):	10 - 30

### 2.3. Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

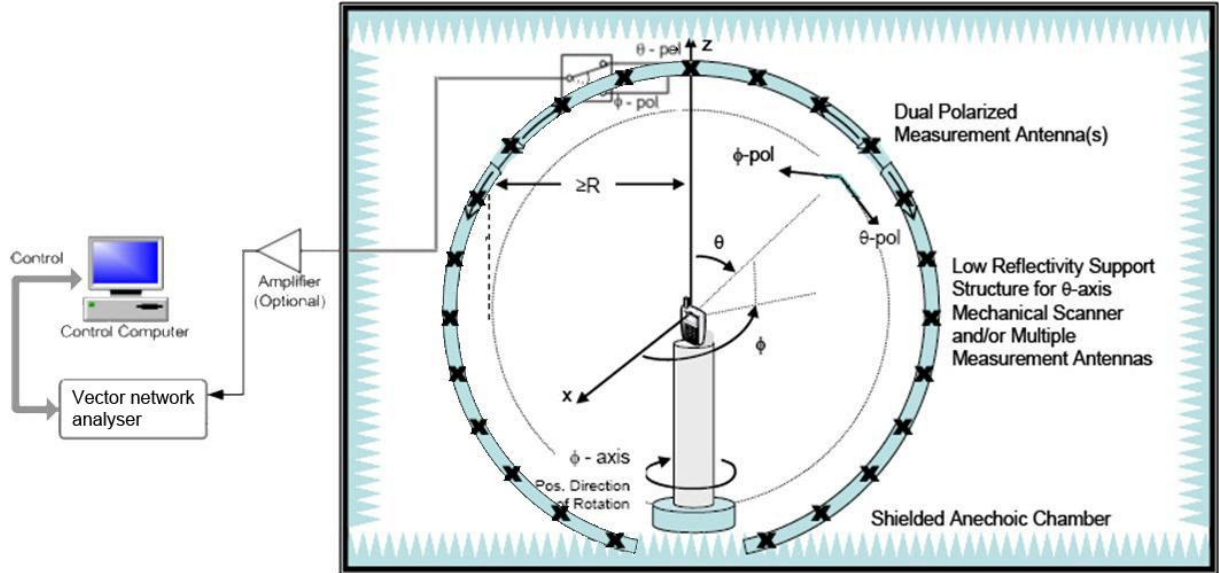


## 2.4. Test Results lists

### 2.4.1. Gain

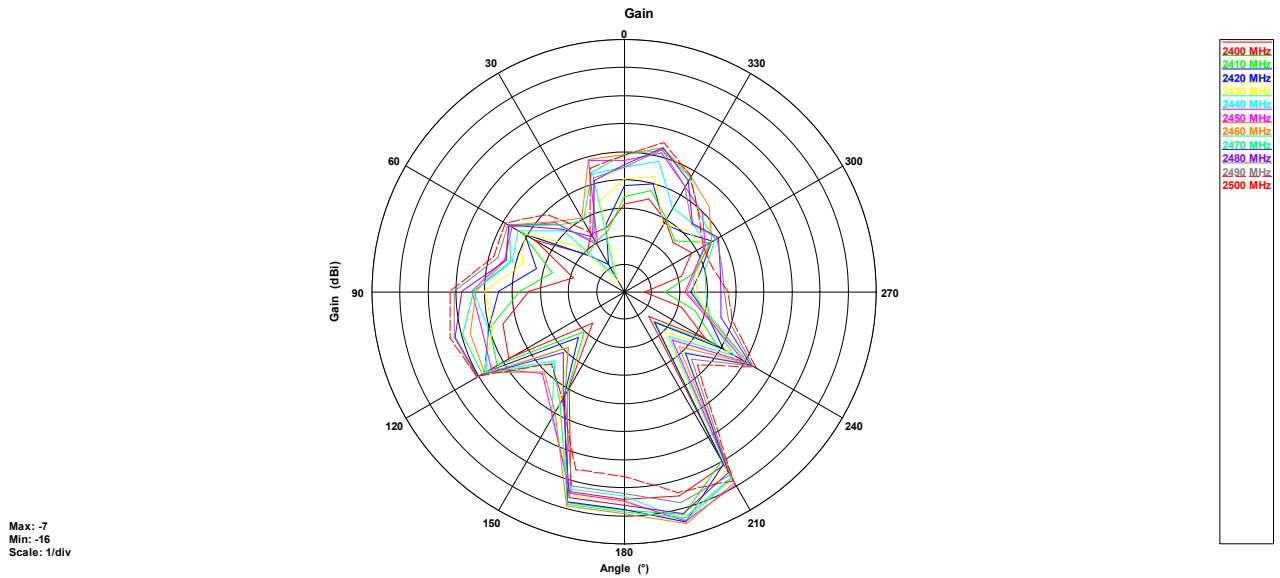
Frequency (MHz)	Gain(dBi)
2400	1.49
2410	1.72
2420	1.81
2430	1.88
2440	2.10
2450	2.29
2460	2.42
2470	2.38
2480	2.33
2490	2.22
2500	2.16

## Annex A Test Setup Photos

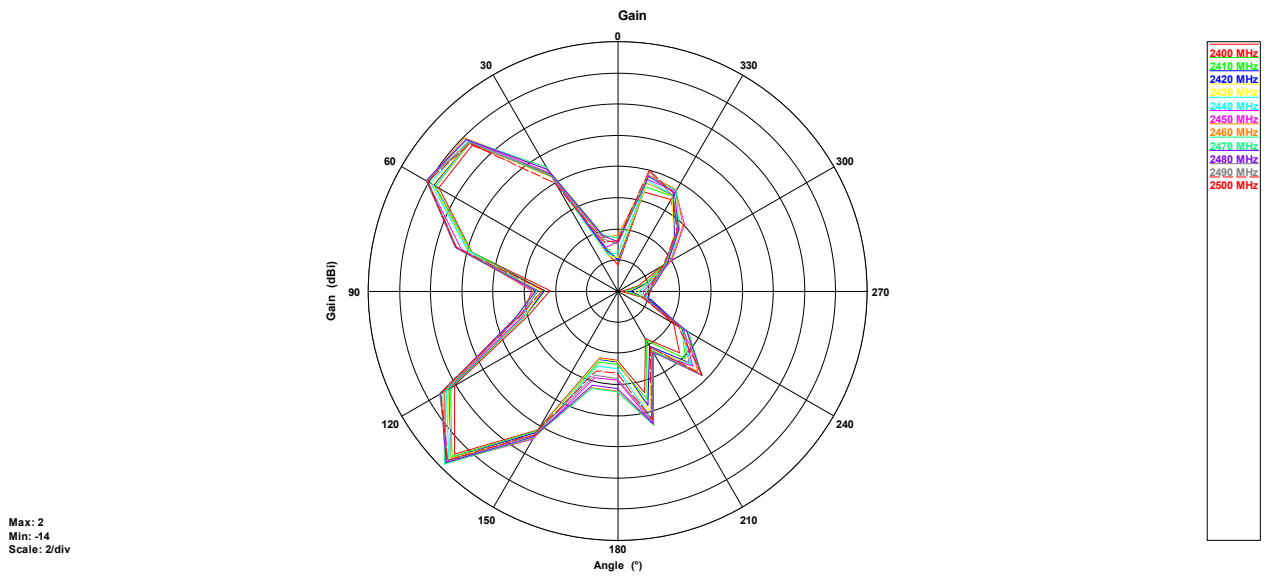


## Annex B Figures

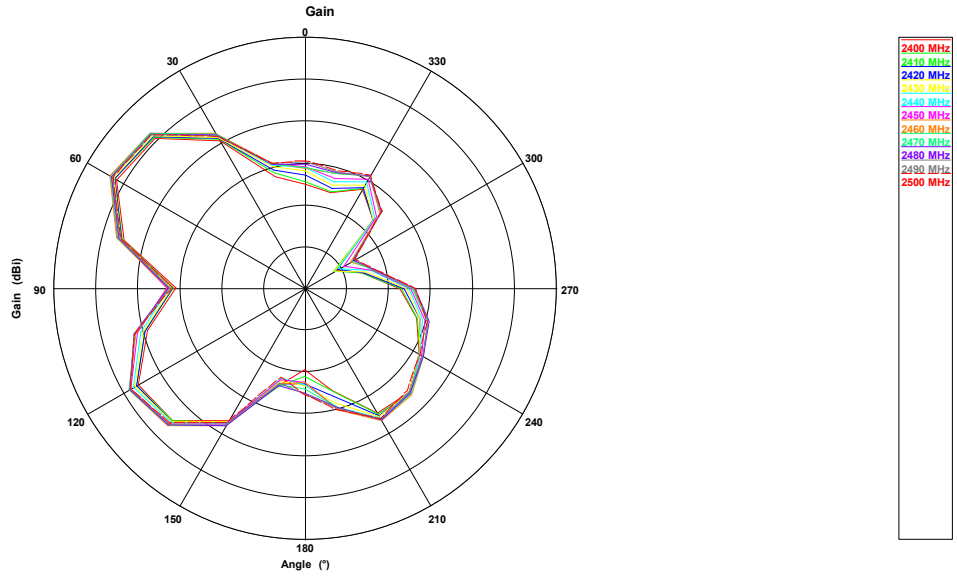
### 1. 2D Radiation Pattern



Phi=0°



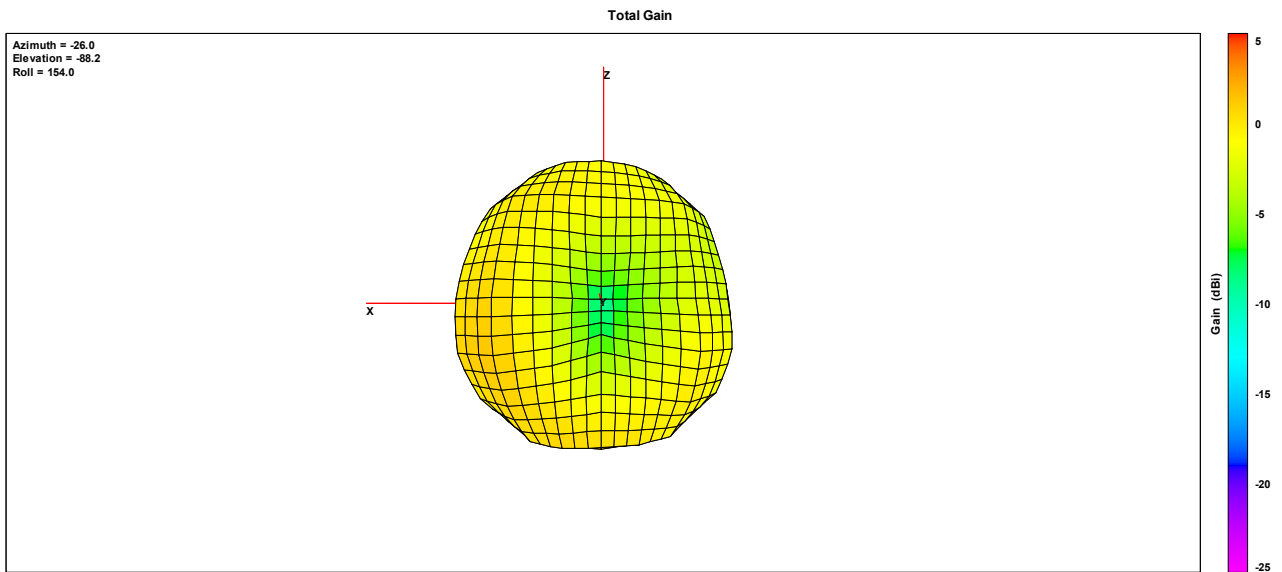
Phi=90°



Max: 5  
 Min: -25  
 Scale: 5/div

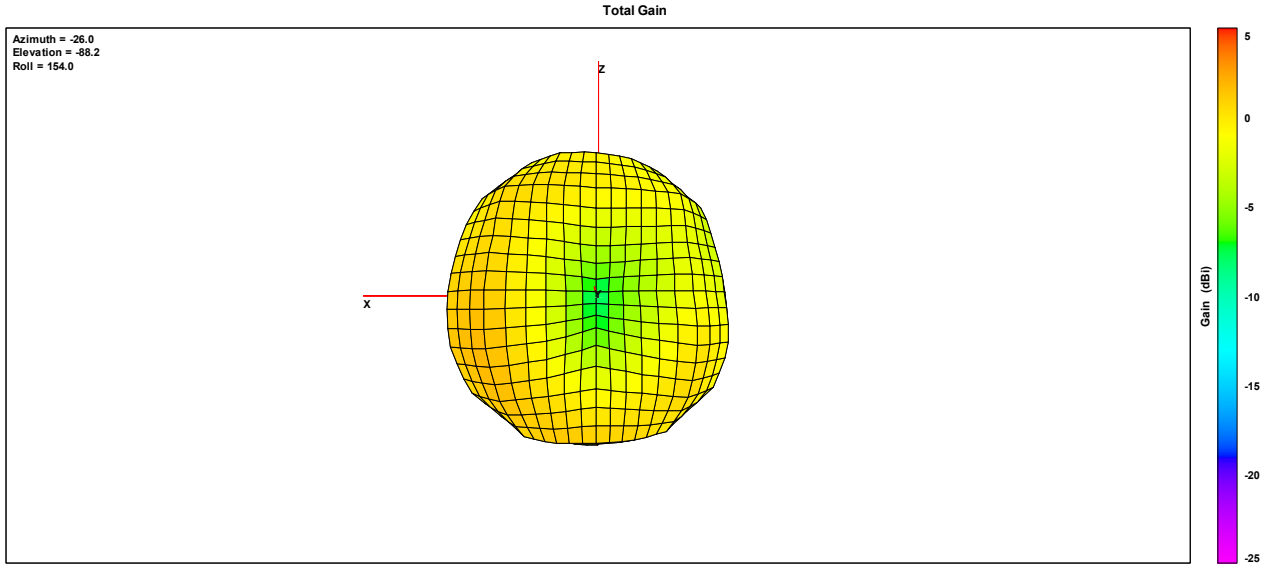
Theta=90°

## 2. 3D Radiation Pattern

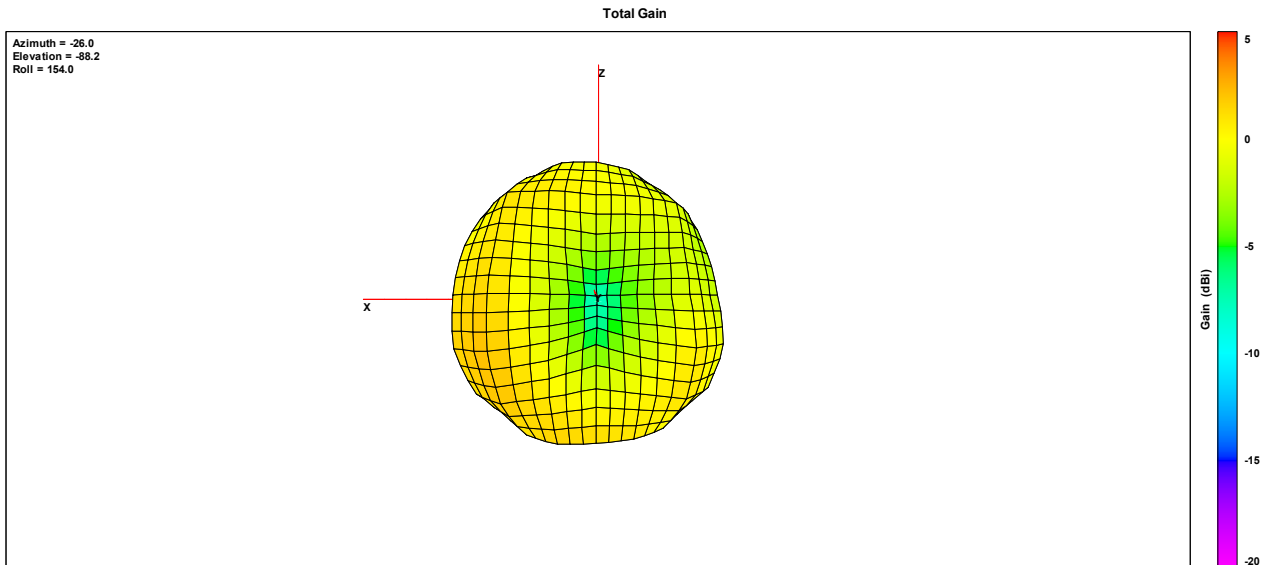


2400MHz





2440MHz



2480MHz



## Annex C General Information

### 1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , Guangdong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

### 1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , Guangdong Province, P. R. China

### 1.3 Test Equipments Utilized

No.	Equipement Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2024.05.30	2025.05.29
2	OTA Chamber	TJ2235-Q1793	AMS-8923 -150	ETS	2022.11.30	2025.11.29

### 1.4 Test Software Utilized

No.	Software Name	Serial No.	Version	Manufacturer
1	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS

**Note:**The Main report is end here and the other Annex D will be submitted separately.

————— END OF MIAN REPORT —————