TEST REPORT

APPLICANT	:	Linhai Yixin Photoelectric Technology Co.,Ltd
PRODUCT NAME	:	PCB antenna
MODEL NAME	:	B-ANT011
TRADE NAME	:	N/A
BRAND NAME	:	N/A
STANDARD(S)	:	IEEE Std 149-2021
RECEIPT DATE	:	2025-09-18
TEST DATE	:	2025-09-22
ISSUE DATE	:	2025-09-23

Edited by: MaoRuJie
Mao Rujie(Rapporteur)

Approved by: Chi Shide
Chi Shide(Supervisor)

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Change History		
Version	Date	Reason for change
1.0	2025-09-23	First edition

1.Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Linhai Yixin Photoelectric Technology Co.,Ltd
Applicant Address:	No. 538 Datian Road,Datian district, Linhai City, Zhejiang Province China
Manufacturer:	N/A
Manufacturer Address:	N/A
Factory:	N/A
Factory Address:	N/A

1.2. Equipment Under Test (EUT) Description

Wireless Type	Bluetooth
Frequency	2400MHz-2500MHz
IMEI	N/A
Sample No.	3#

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

Notes:Any additions, deviation, or exclusions from the method shall be noted in the"Remark".

2.2. Test Conditions

Test Environment Conditions：

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

2.3. Measurement Uncertainty

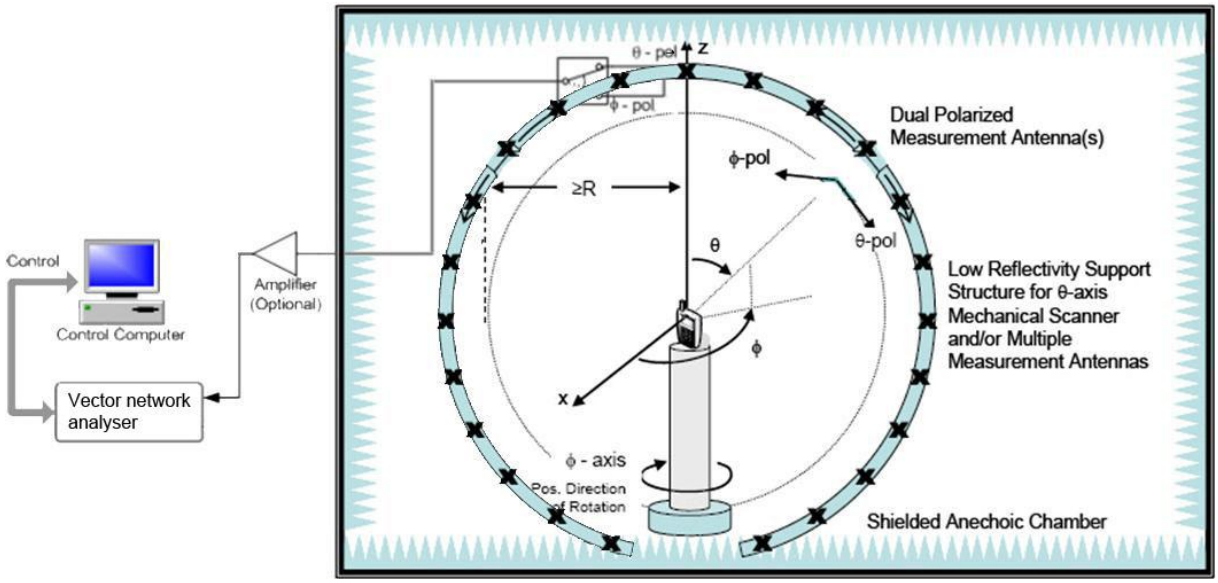
The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO.

2.4. Test Results lists

2.4.1. Gain

Frequency (MHz)	Gain(dBi)
2400	-5.83
2410	-5.54
2420	-5.60
2430	-5.54
2440	-5.41
2450	-5.58
2460	-5.55
2470	-5.64
2480	-5.53
2490	-5.42
2500	-5.53

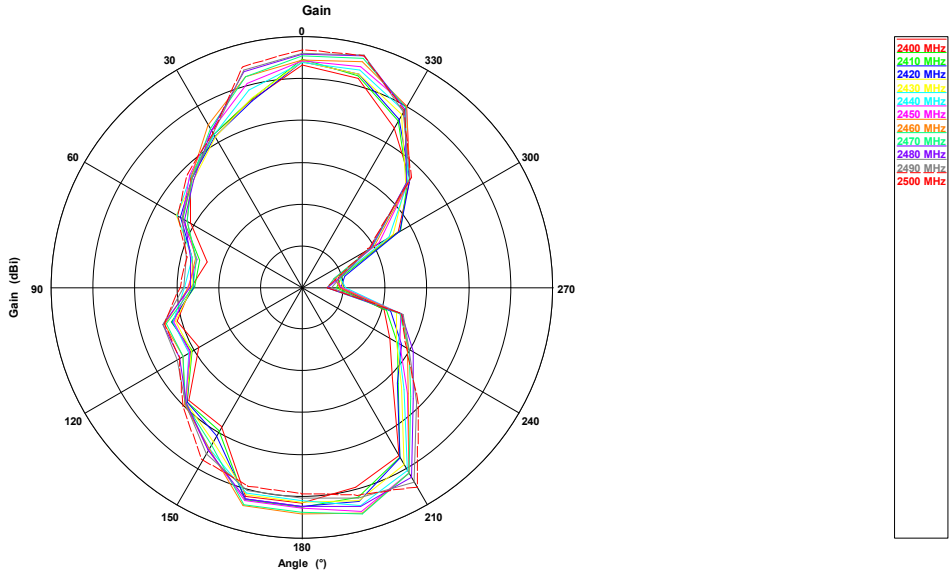
Annex A Test Setup Photos



Annex B Figures

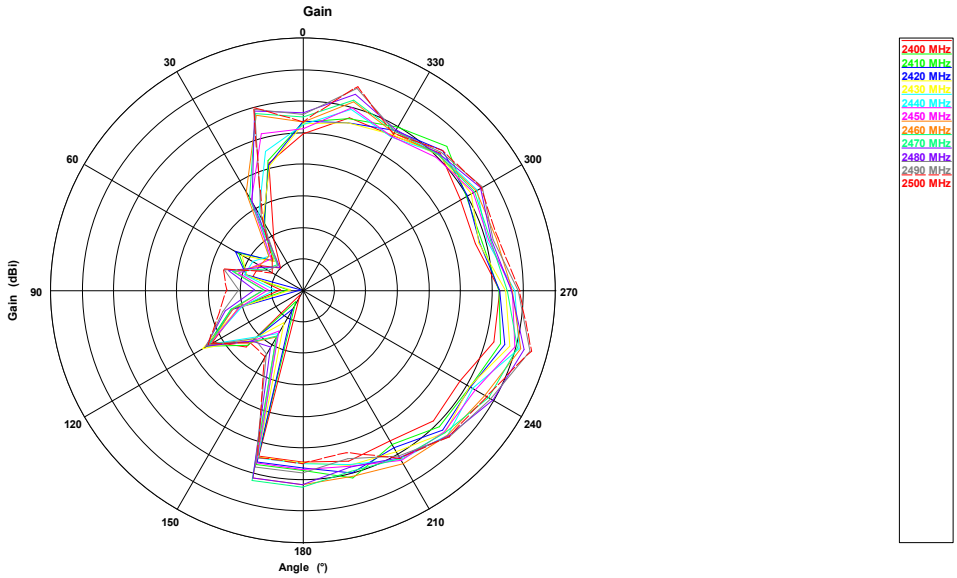
1. 2D Radiation Pattern

Phi=0°



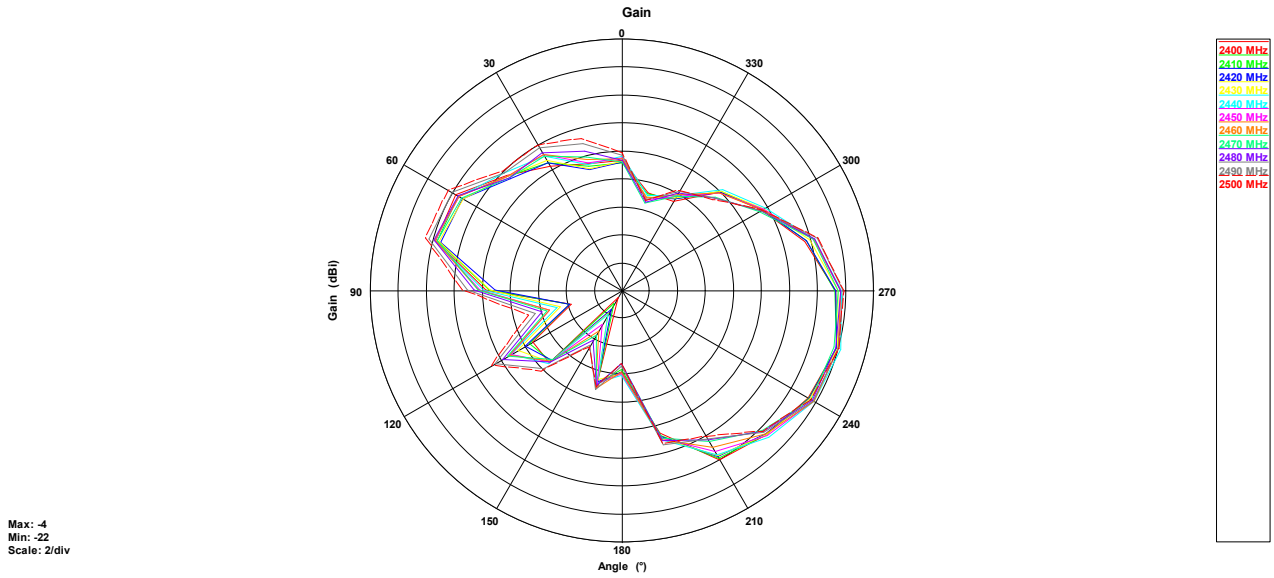
Max: -6
Min: -18
Scale: 2/div

Phi=90°

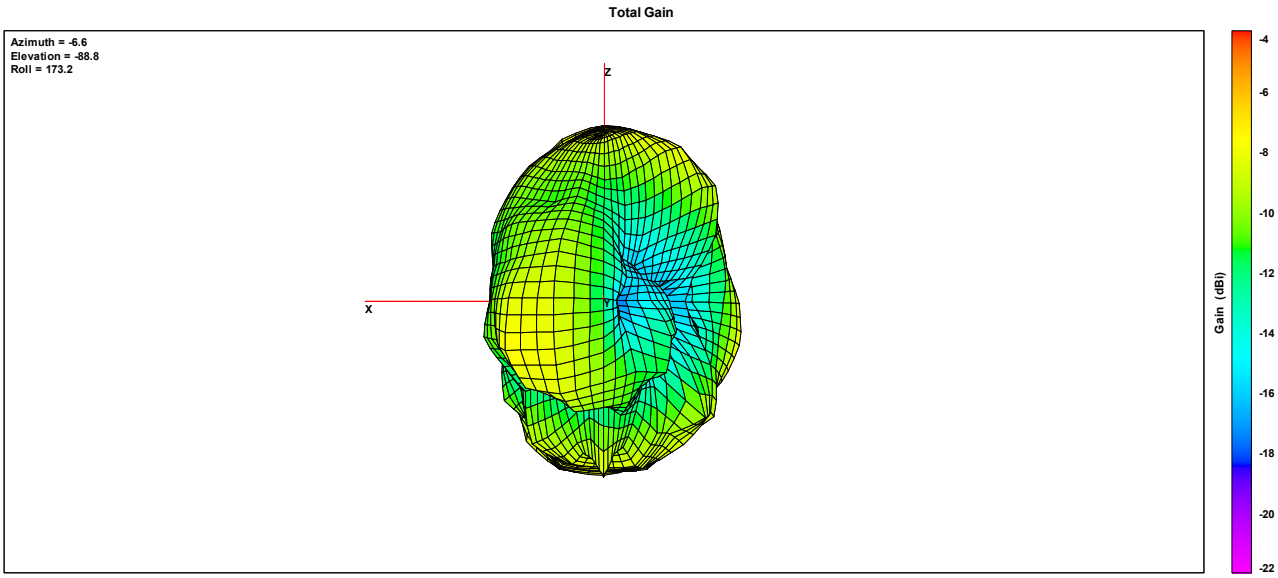


Max: -5
Min: -13
Scale: 1/div

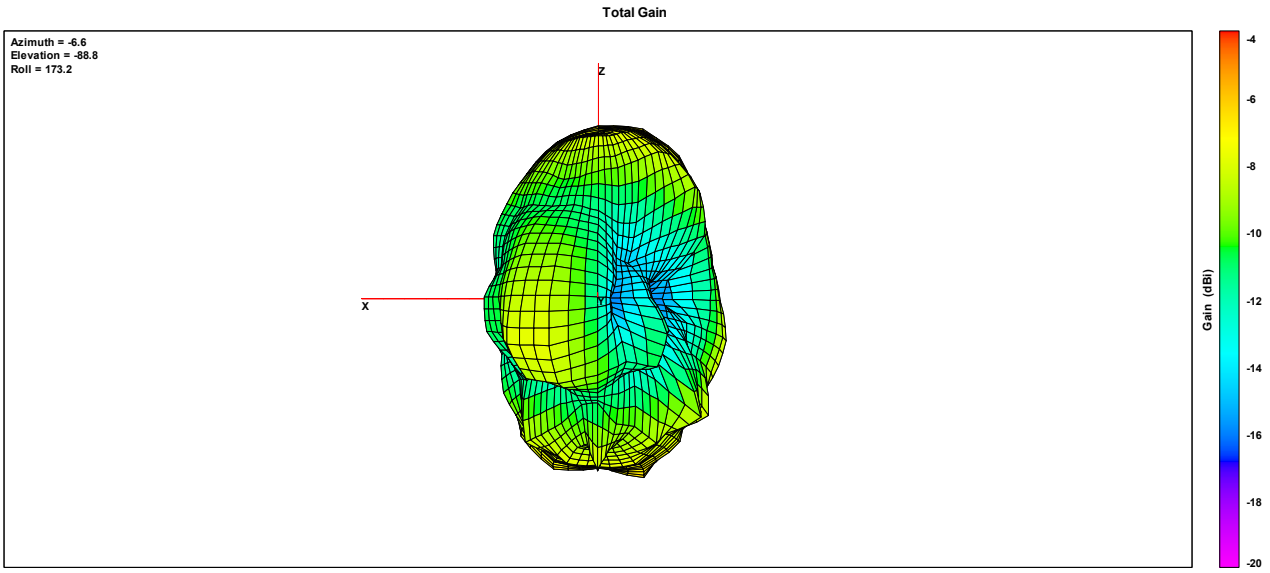
Theta=90°



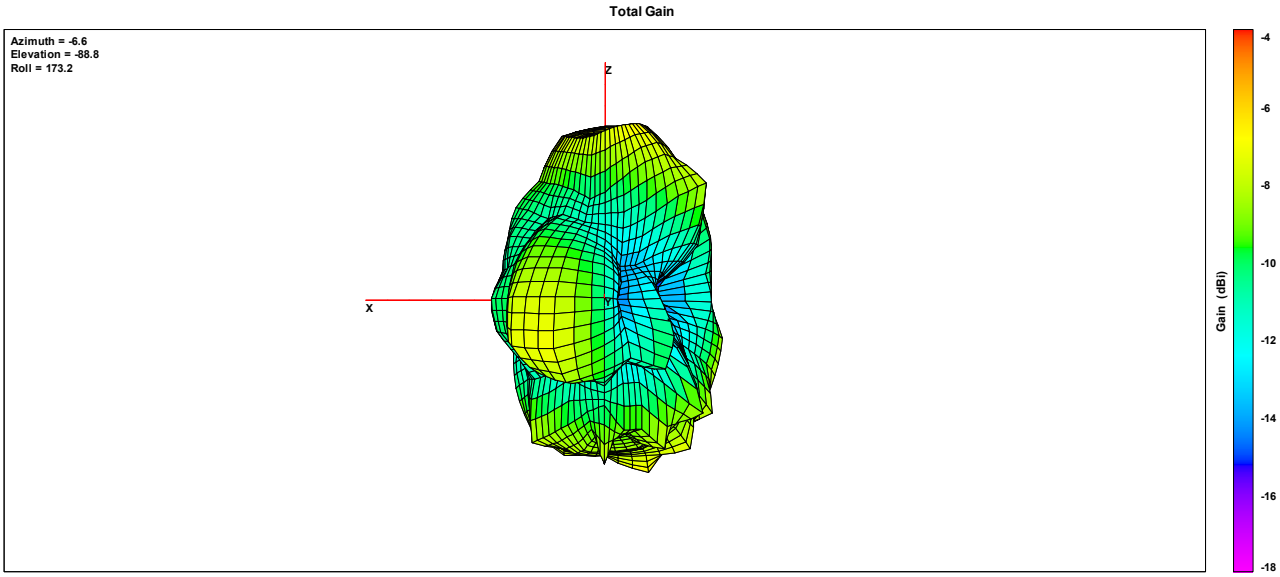
2. 3D Radiation Pattern



2400MHz



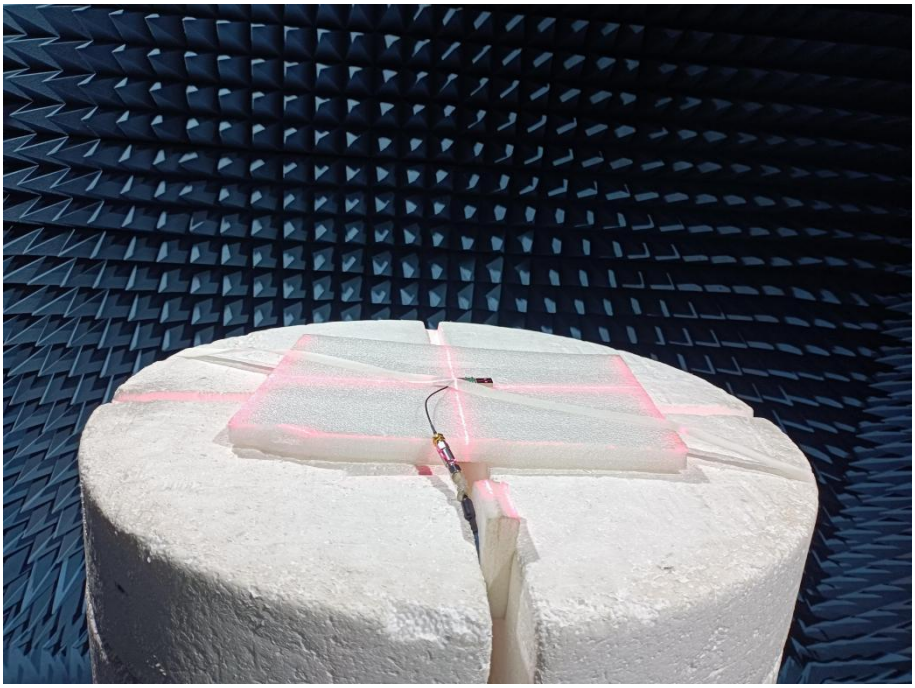
2450MHz

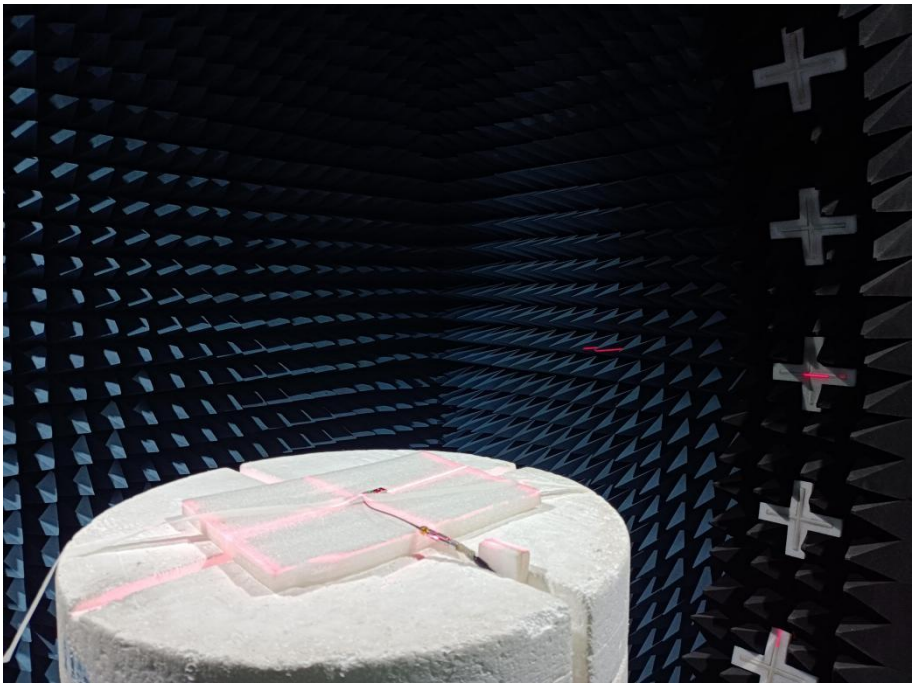


2500MHz

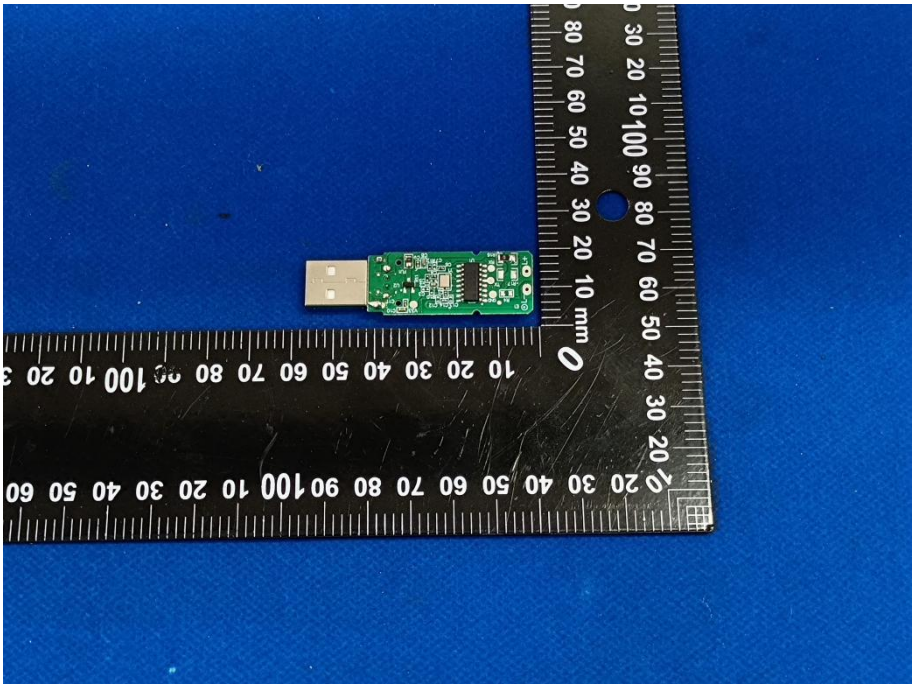
Annex C EUT Photos

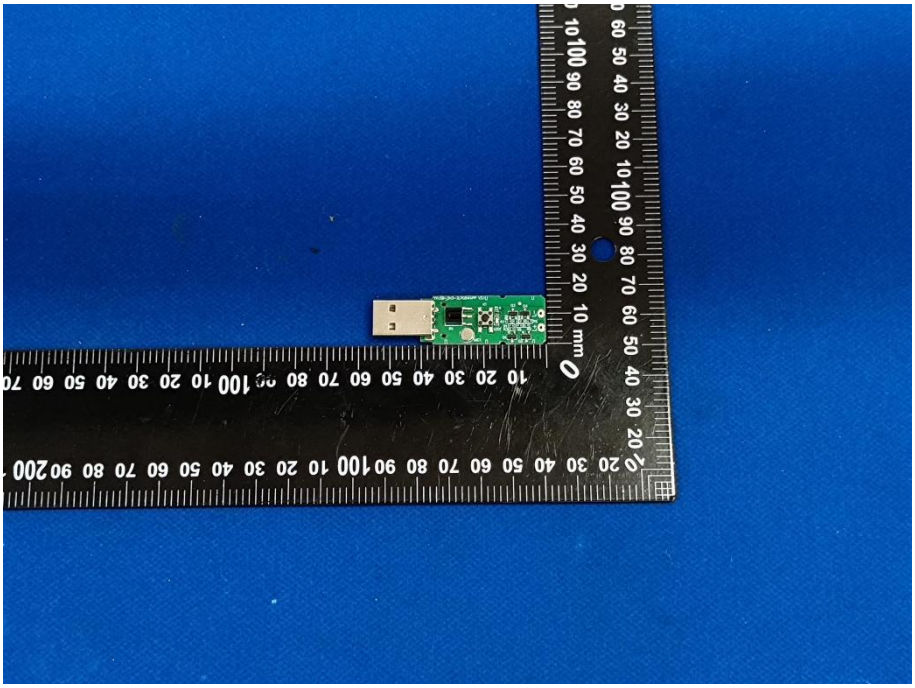
1. Test environment

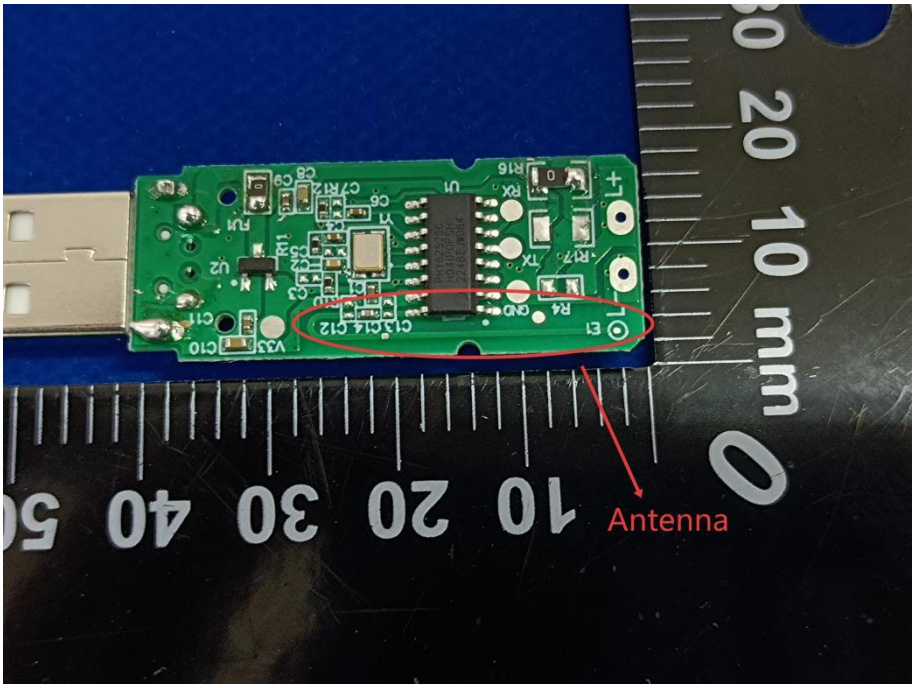




2. EUT






Antenna

Annex D 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	2025.05.13	2026.05.12
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

——— END OF REPORT ———