



# TEST REPORT

**APPLICANT** : GSOU Technology(Shen Zhen)Co., LTD

**PRODUCT NAME** : BLUETOOTH SPEAKER

**MODEL NAME** : V6

**TRADE NAME** : Gsuo

**BRAND NAME** : N/A

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

**RECEIPT DATE** : 2023-03-06

**TEST DATE** : 2023-03-07

**ISSUE DATE** : 2023-03-14

Edited by:

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Approved by:

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Change History		
Version	Date	Reason for change
1.0	2023-03-14	First edition



# 1. Technical Information

Note: Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	GSOU Technology(Shen Zhen)Co., LTD
<b>Applicant Address:</b>	Room 1246, Jiaxiye Plaza, 328 Minzhi Avenue, Longhua Distric.Shenzhen ,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>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:	+10 °C to +30 °C

### 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.

Item	Measurement Uncertainty(dB)
Gain	±0.5
VSWR	±0.2
Measurement Uncertainty(95% Confidence Interval) K=2	

## 2.4. Test Results lists

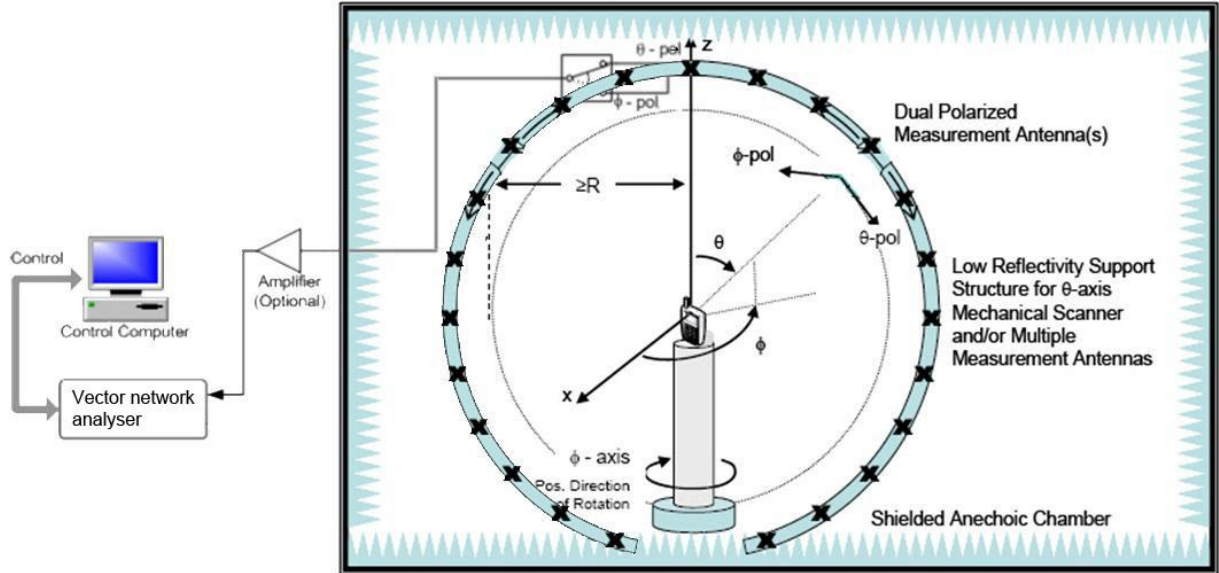
### 2.4.1. Gain

Frequency (MHz)	Gain(dBi)
2400	3.03
2410	3.02
2420	3.13
2430	3.07
2440	3.29
2450	3.44
2460	3.51
2470	3.49
2480	3.34
2490	3.26
2500	3.27

### 2.4.2. VSWR

Frequency (MHz)	VSWR
2400	1.89
2440	1.59
2480	1.53

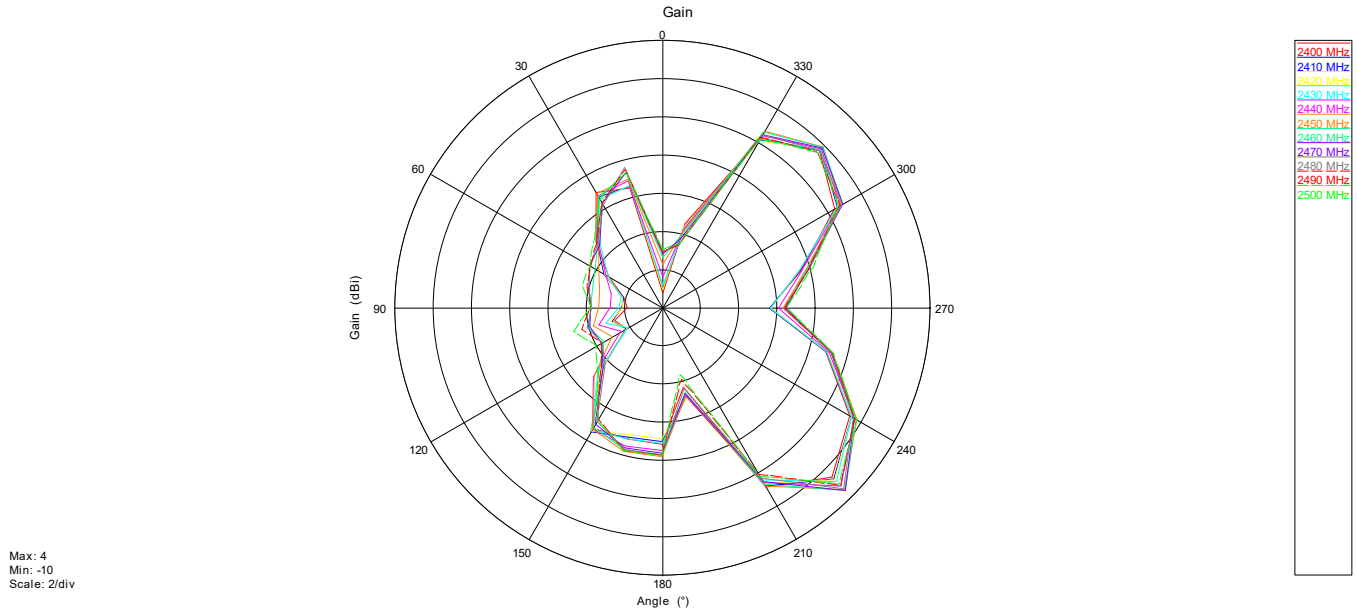
## Annex A Test Setup Photos



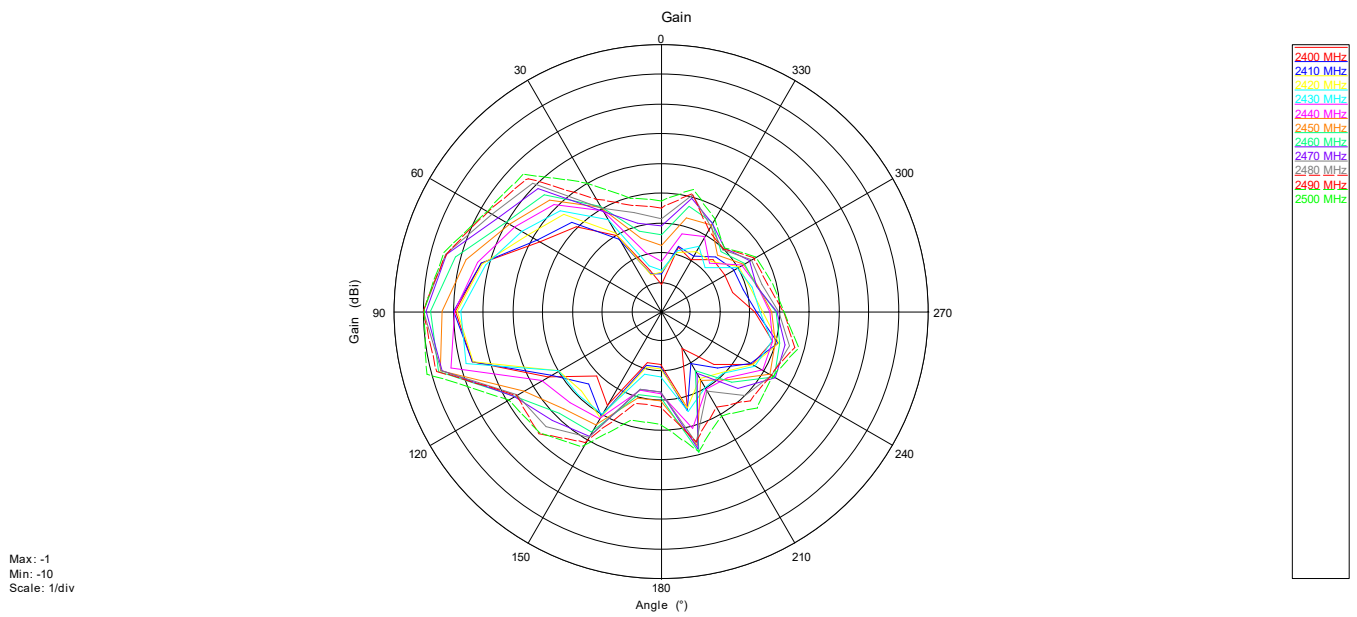


# Annex B Figures

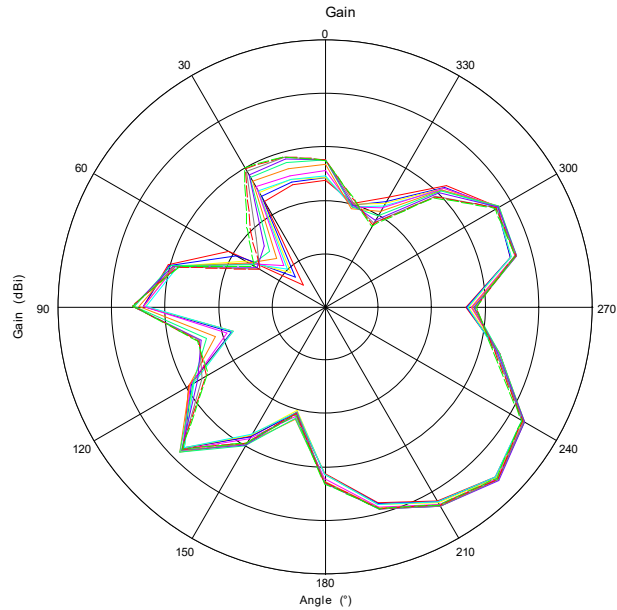
## 1. 2D Radiation Pattern



Phi=0°



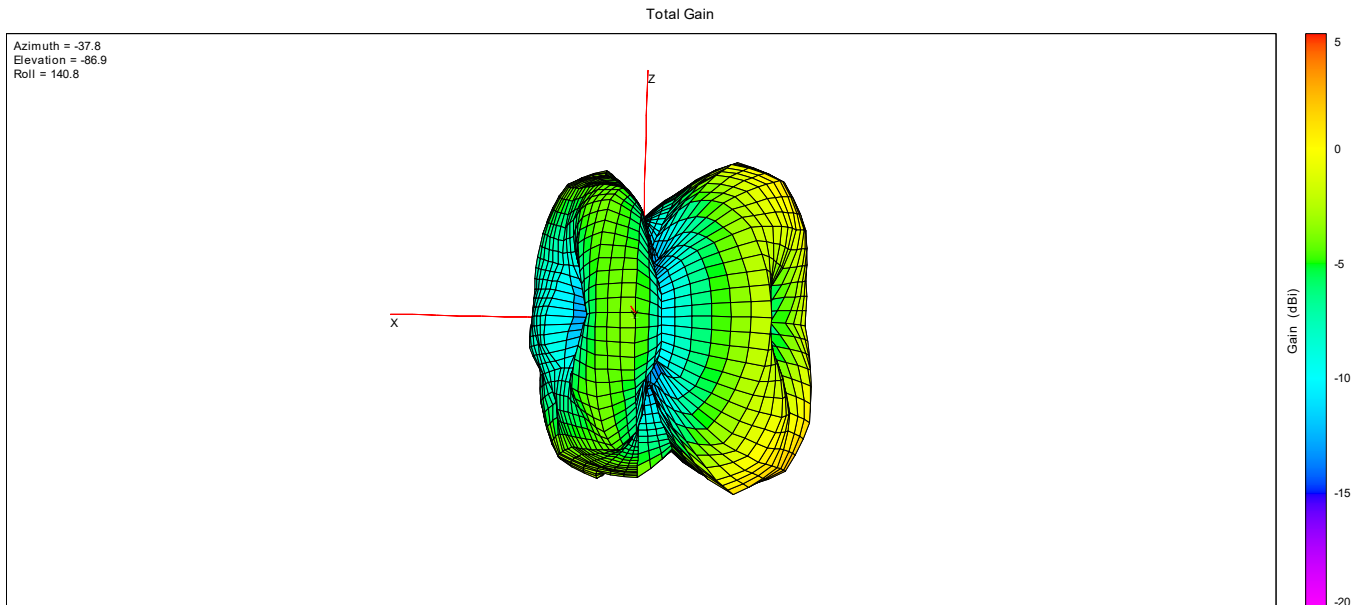
Phi=90°



Max: 5  
Min: -20  
Scale: 5/div

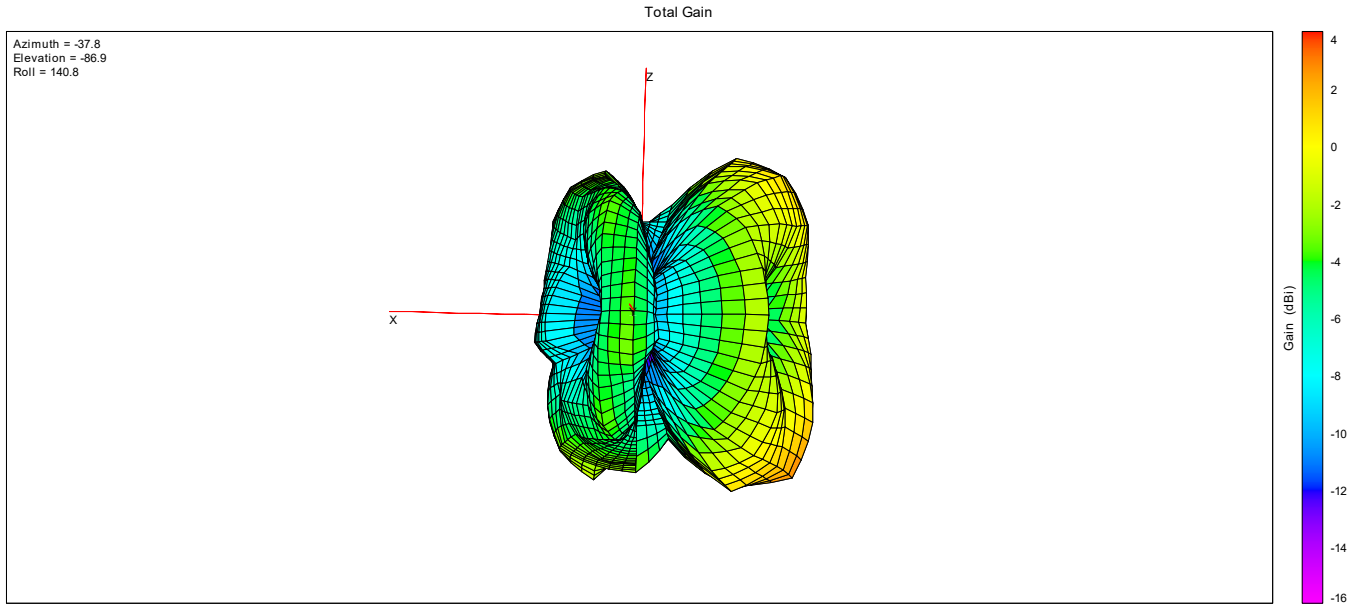
Theta=90°

## 2. 3D Radiation Pattern

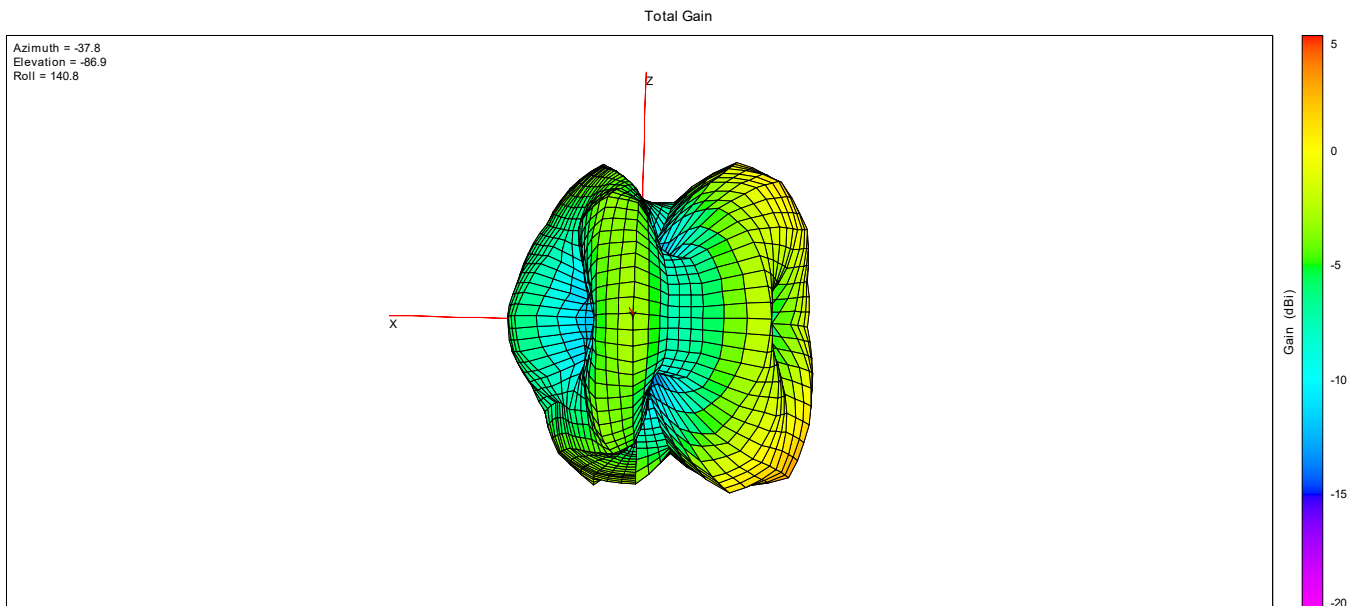


2400MHz





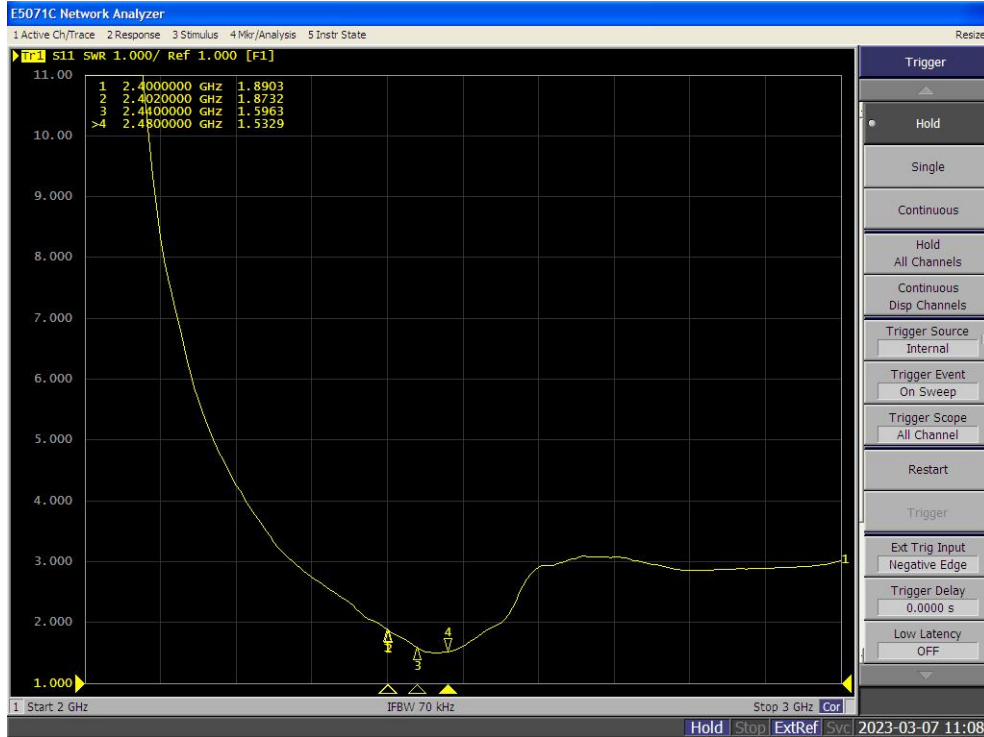
2440MHz



2480MHz

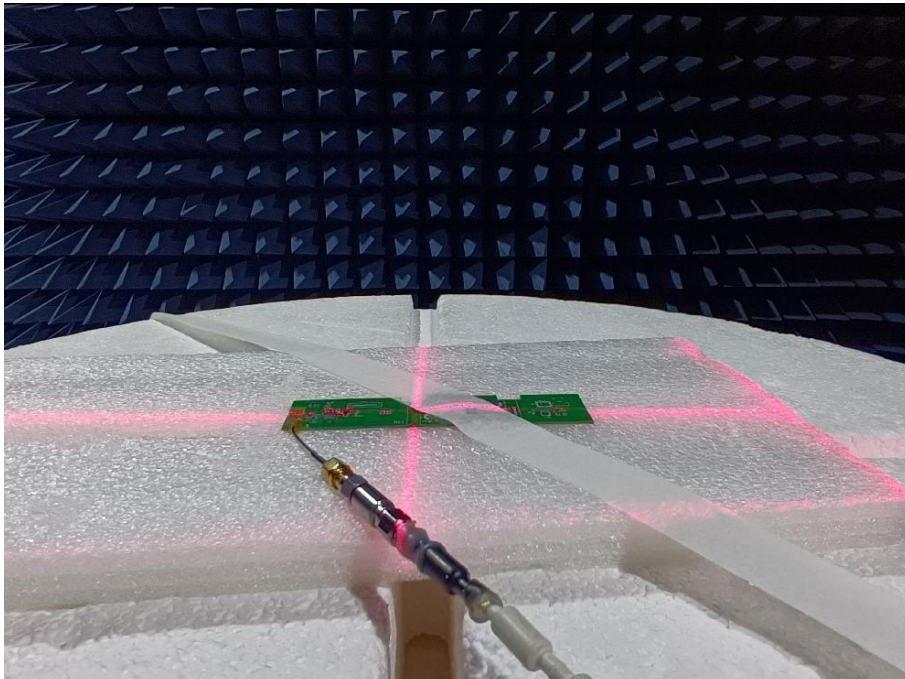


### 3. VSWR

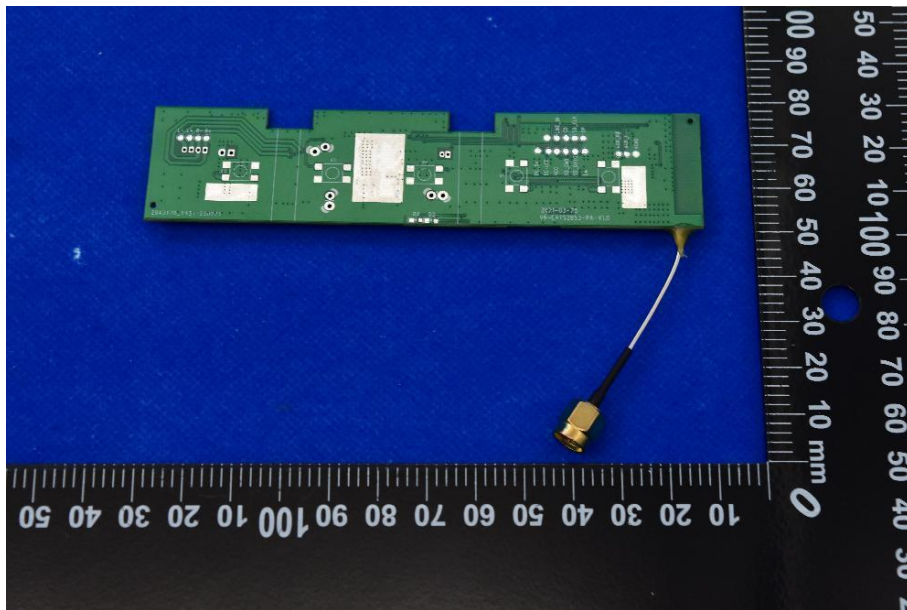
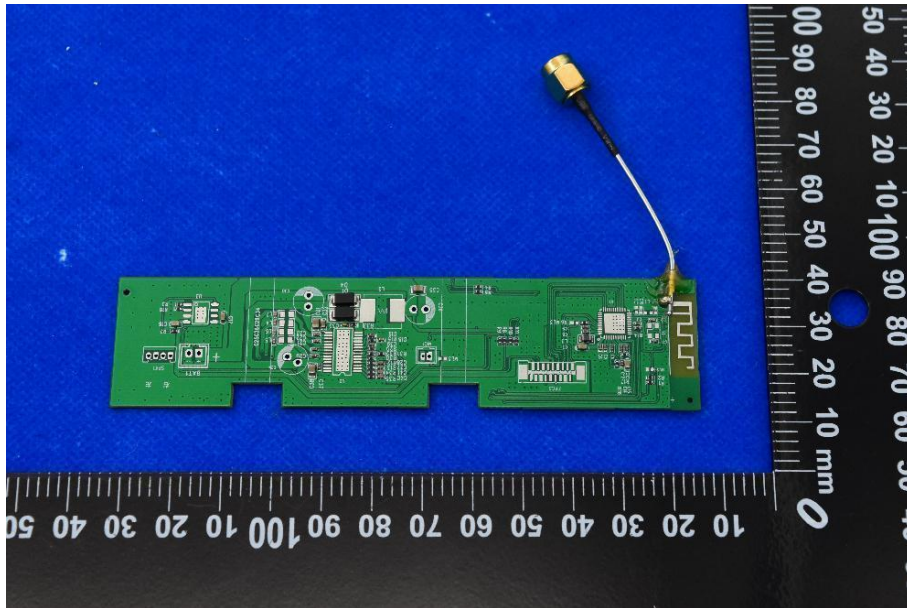


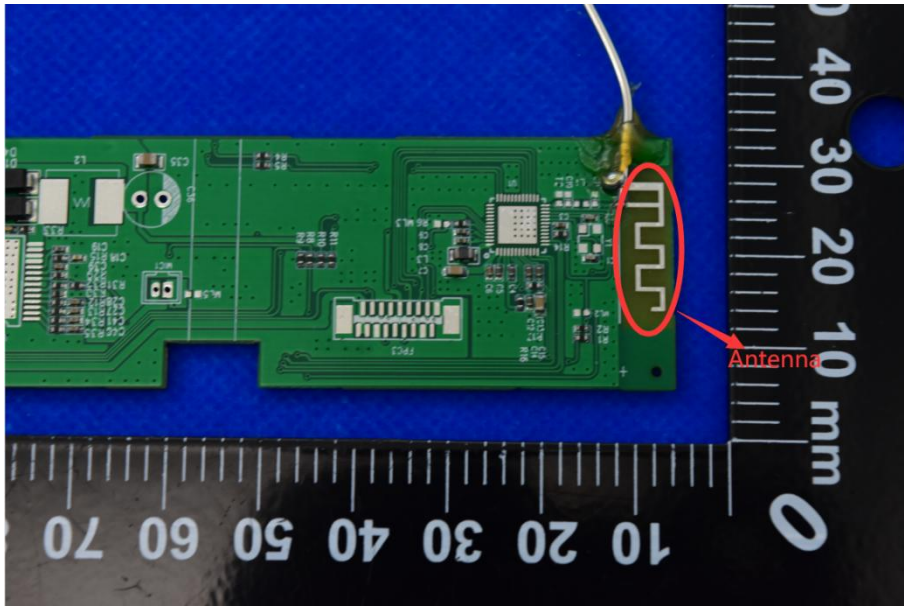
## Annex C EUT Photos

### 1. Test environment



2. EUT







## 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	2022.07.04	2023.07.03
2	OTA Chamber	TJ2235-Q1793	AMS-8923 -150	ETS	2022.11.30	2025.11.29
3	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS	N/A	N/A

————— END OF REPORT —————