



# TEST REPORT

**APPLICANT** : Jiangxi Innotech Technology Co., Ltd

**PRODUCT NAME** : Wi-Fi & Bluetooth Internet of Things Module

**MODEL NAME** : WBE01EH

**TRADE NAME** : INNOTECH

**BRAND NAME** : INNOTECH

**STANDARD(S)** : ANSI/IEEE Std 149-2008

**RECEIPT DATE** : 2022-07-20

**TEST DATE** : 2022-07-21

**ISSUE DATE** : 2022-07-22

Edited by:

A handwritten signature in black ink that reads "ke zhi qing". The signature is written in a cursive style.

Ke Zhiqing(Rapporteur)

Approved by:

A handwritten signature in black ink that reads "Chi Shide". The signature is written in a cursive style.

Chi Shide(Supervisor)

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Change History		
Version	Date	Reason for change
1.0	2022-07-22	First edition



# 1. Technical Information

**Note:** Provide by manufacturer.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	Jiangxi Innotech Technology Co., Ltd
<b>Applicant Address:</b>	No.399, Rule Lake Avenue, Nanchang Airport Economic Zone, Nanchang, Jiangxi, China
<b>Manufacturer:</b>	Jiangxi Innotech Technology Co., Ltd
<b>Manufacturer Address:</b>	No.399, Rule Lake Avenue, Nanchang Airport Economic Zone, Nanchang, Jiangxi, China

## 1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A
Test frequency	2400MHz -2500MHz
IMEI	N/A
Sample number	1#



## 2. Test Results

### 2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas

### 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	



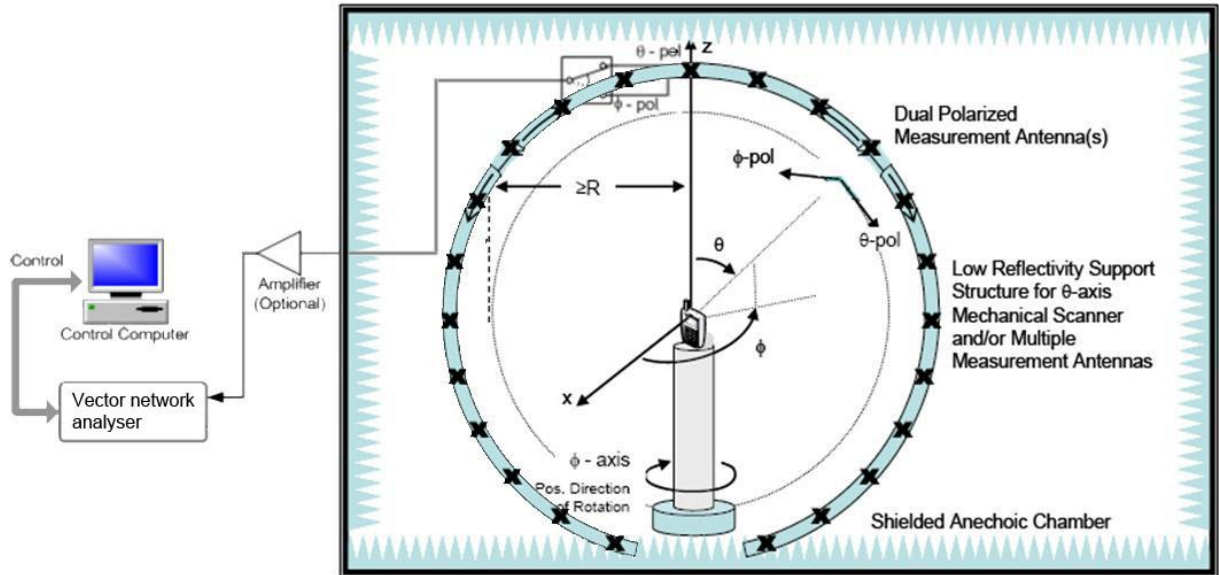
## 2.4. Test Results lists

### 2.4.1. Gain

Frequency	Gain(dBi)
2400MHz	1.12
2410MHz	1.25
2420MHz	1.31
2430MHz	1.10
2440MHz	1.38
2450MHz	1.66
2460MHz	1.63
2470MHz	1.26
2480MHz	1.08
2490MHz	1.08
2500MHz	1.27

## Annex A Photographs

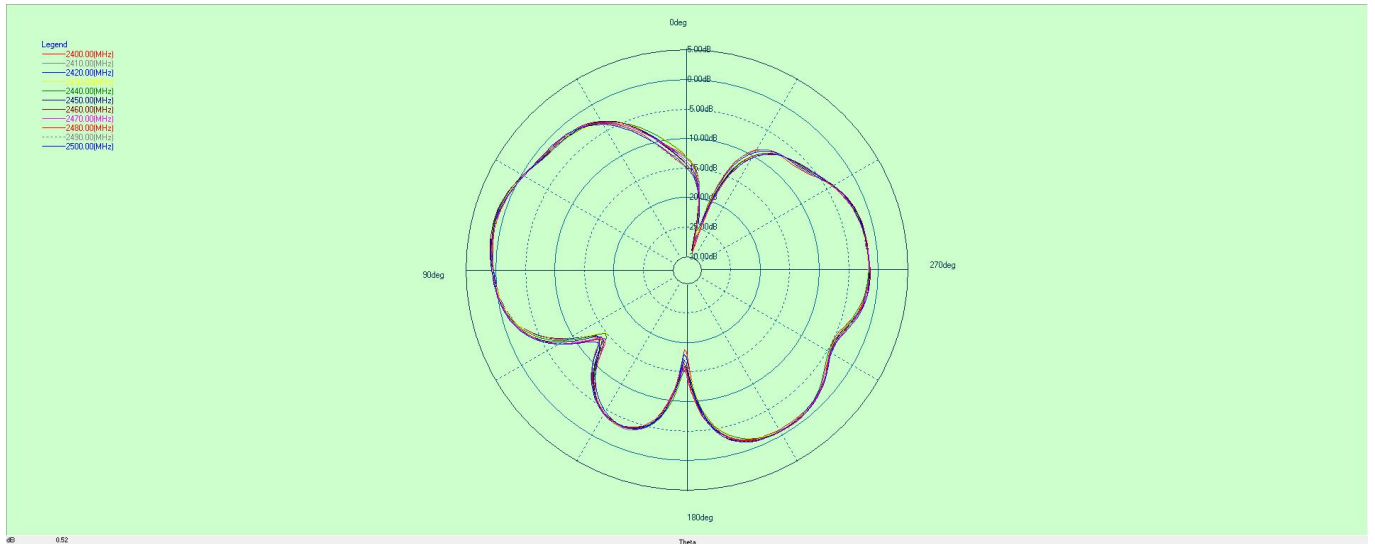
### 1. Test Setup



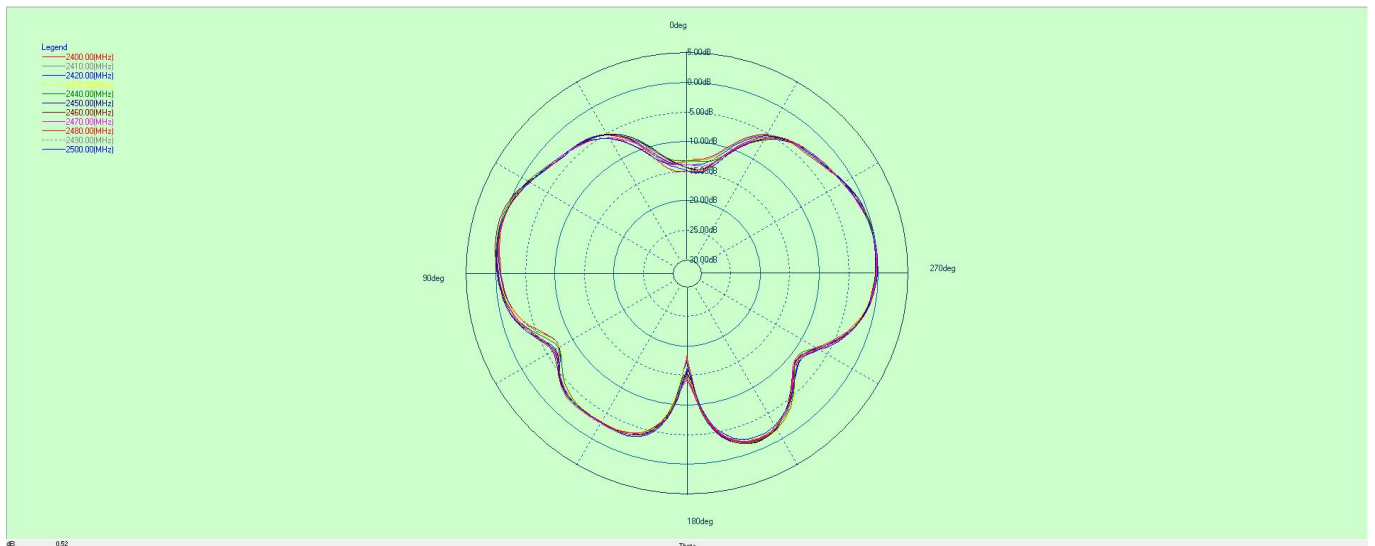
## Annex B Figures

### 1. 2D Radiation Pattern

Phi=0°

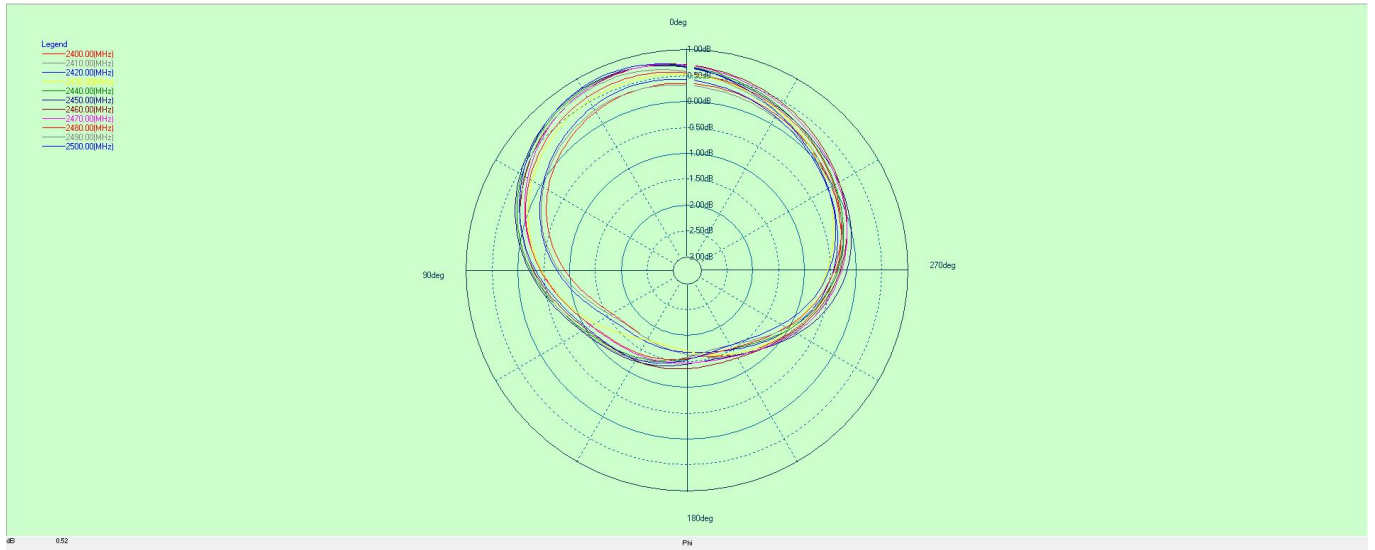


Phi=90°



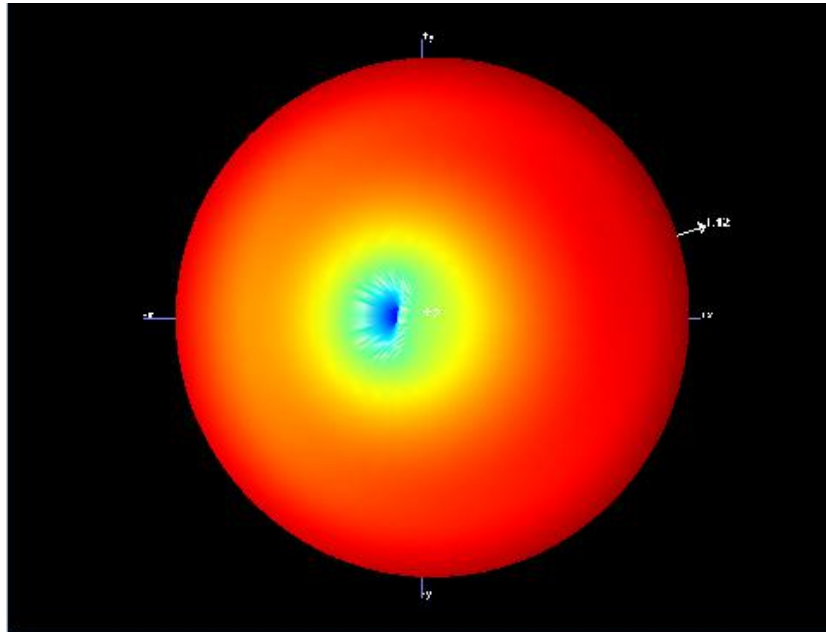


Theta=90°

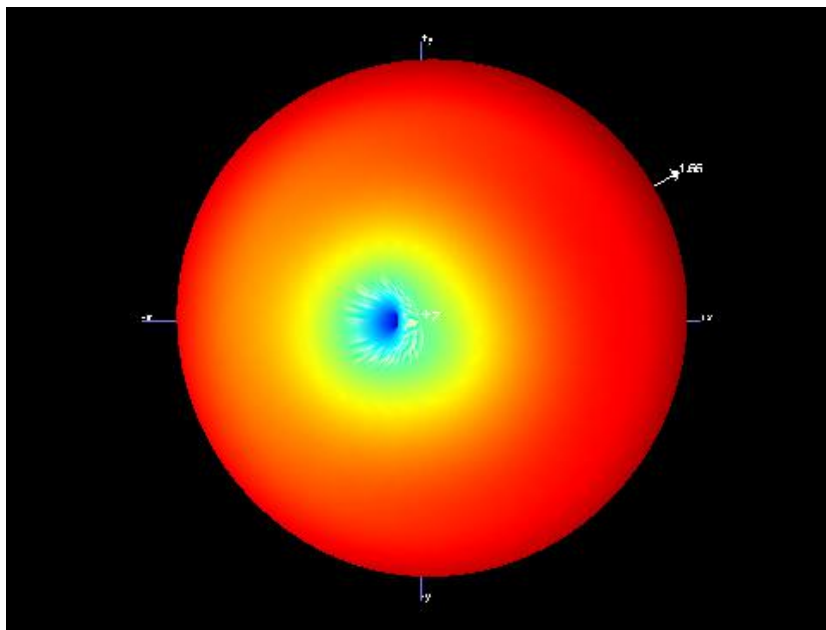




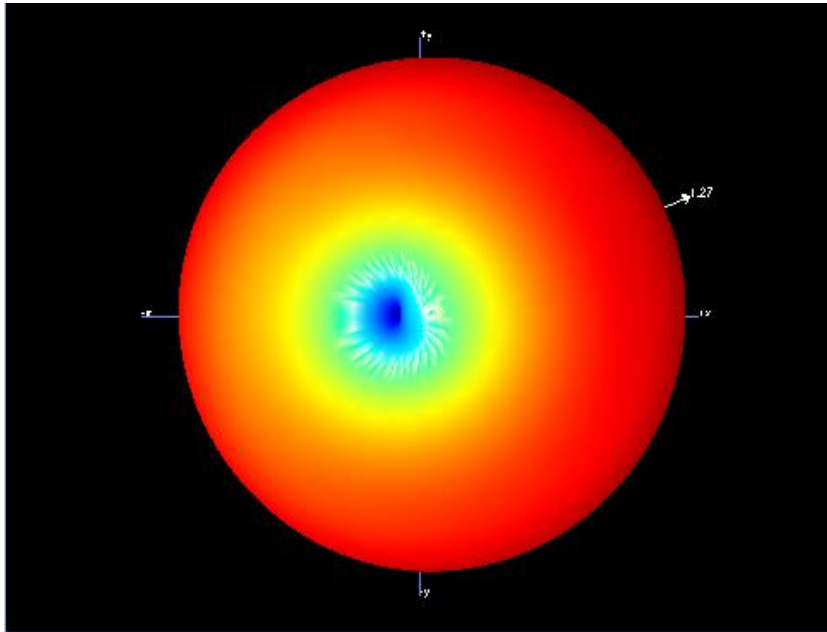
## 2. 3D Radiation Pattern



2400MHz



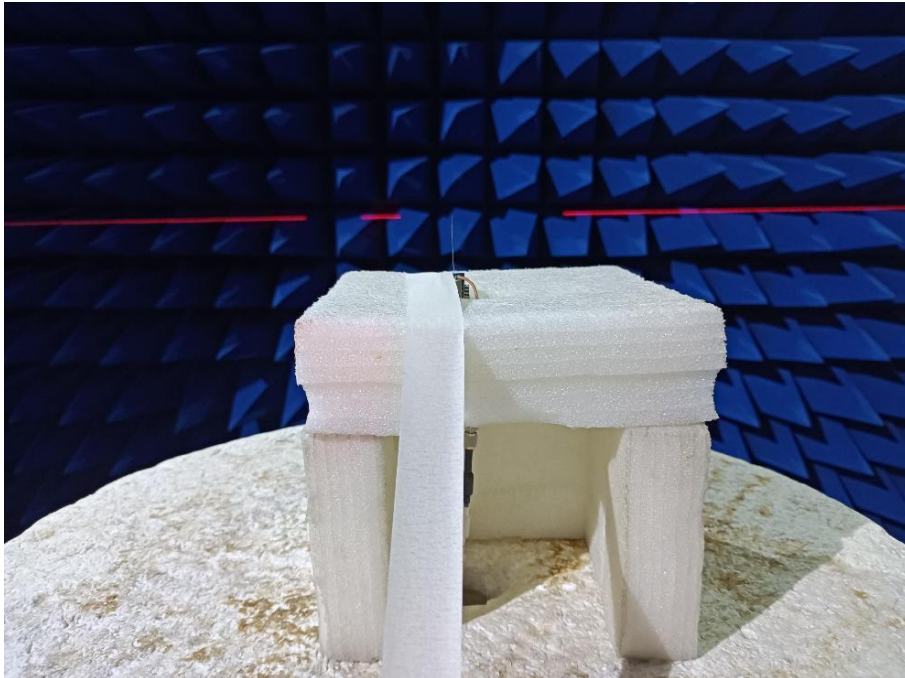
2450MHz



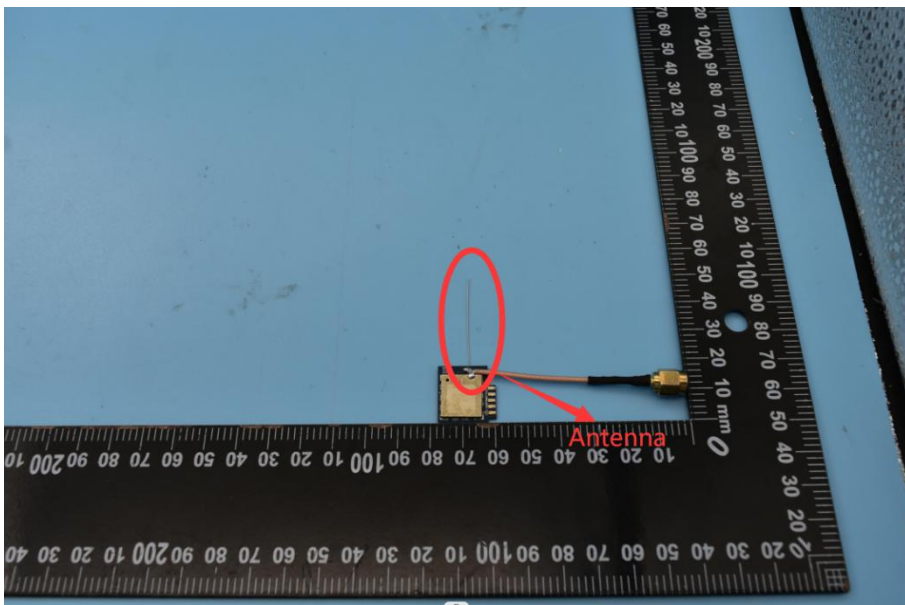
2500MHz

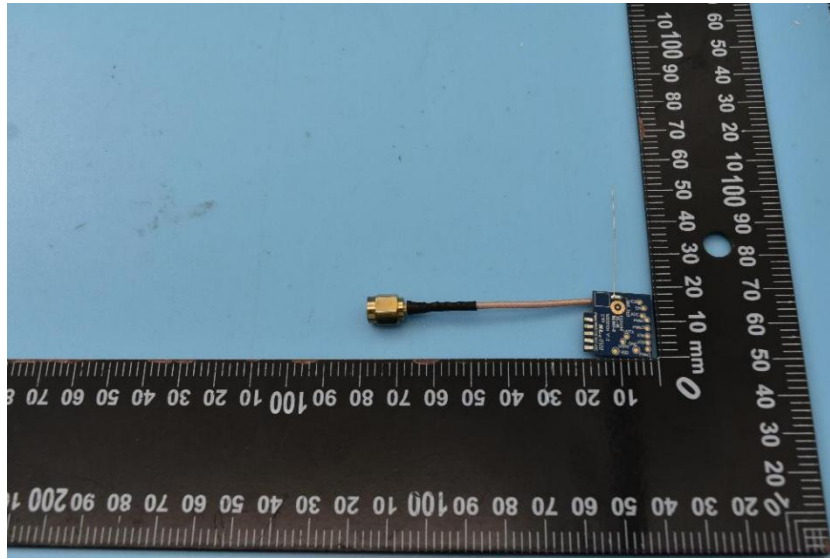
## Annex C Photographs

### 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:	FL1-3, 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:	FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , Guangdong Province, P. R. China

### 1.3 Test Equipments Utilized

NO.	Equipment Name	Serial NO.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Vector Network Analyzer	MY46214666	E5071C	Agilent	2022.03.01	2023.02.28
2	OTA Chamber	N/A	SG24	Satimo	2021.01.12	2024.01.11
3	SatEnv	N/A	2.0.1.5 build 12	Satimo	N/A	N/A
4	SPM	N/A	1.11	Satimo	N/A	N/A

————— END OF REPORT —————