



SHENZHEN XIN BI NUO COMMUNICATIONS TECHNOLOGY  
CO.,LTE

Area A, Third Floor, Building 25, No. 171 Pingan Avenue, Pinghu Street,  
Longgang District, Shenzhen City

## Antenna Approval Sheet

For  
**X20**Project

Customer		Project	X20
Band	2.4Ghz-2.5Ghz		
ZCPN	ZG005-CA-93		
Version	R:A	Data	2024-4-18

RF		ME	
CheckedBy			
ConfirmedBy			
CustConfirm			

## 1. Manufacturer information

Company name: Shenzhen Xinbino Communication Technology Co., LTD.  
Address: Area A, Floor 3, Building 25, Feipeng Industrial Park, No.173, Ping An Avenue

## 2. Summary of the DUT

### Antenna Picture



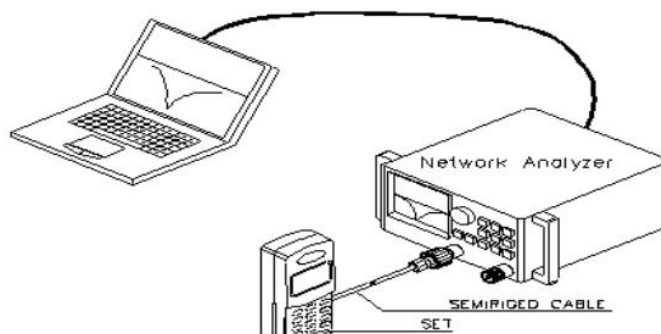
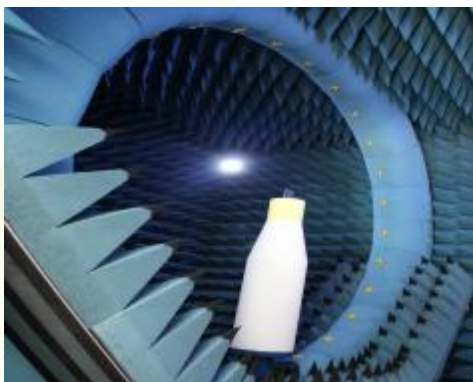
Size: 0.8\*25mm

### 3. Electrical Specification:

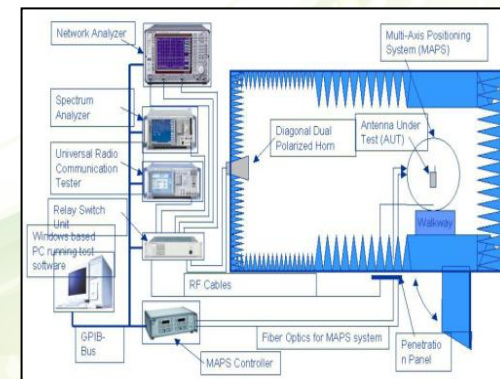
Antennatypes	Built-in WIFI antenna
Frequency	2400-2500MHz
Impedance	50Ω
VSWR	<2.0
PeakGain	3.48bi
Efficiency	>35%
AntennaMaterial	Bluetooth wire
ConnectorType	bonding wire; wire solder

## 4.1 Passive Test Report

Test method: use a 50 ohm CABLE cable for the export of the instrument test port, use the SMA connector of the hand mechanism, and record the data such as echo loss or standing wave ratio corresponding to the relevant frequency point.



测试示意图



## 4.2 Matching Circuit The matching circuit was Default

## 5. RF Performance

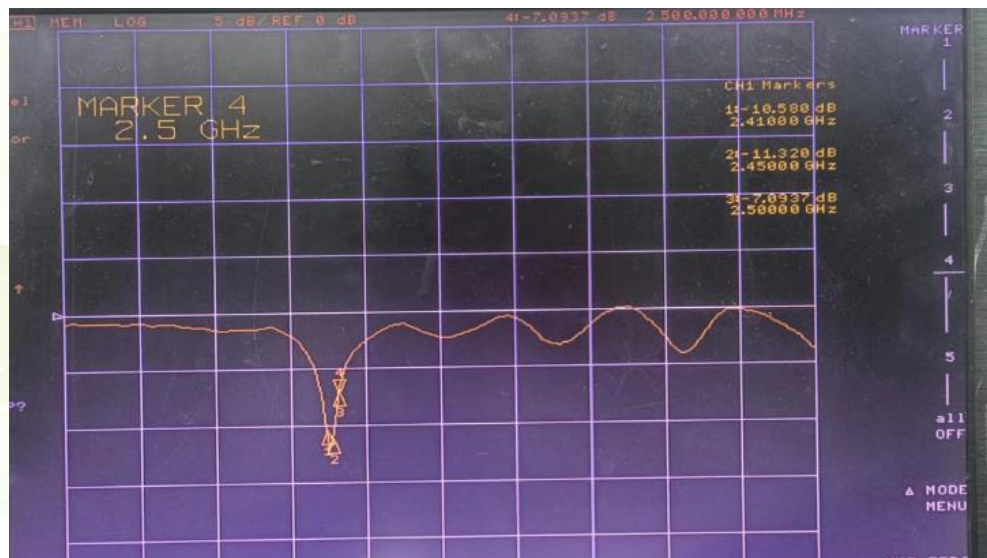
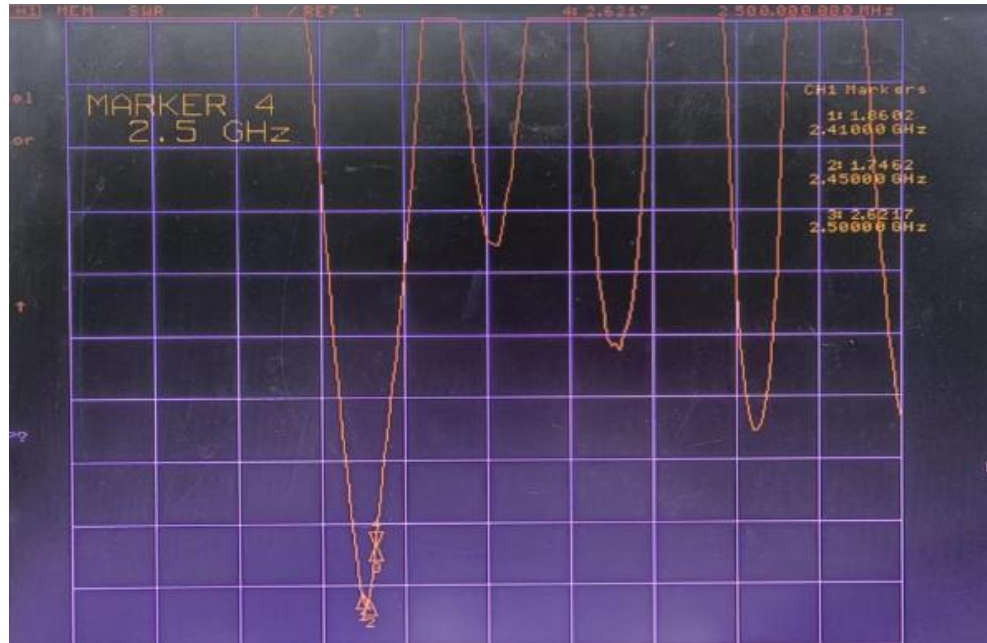
### 5.1 Passive parameters

<b>Freq.(MHz)</b>	<b>2400</b>	<b>2410</b>	<b>2420</b>	<b>2430</b>	<b>2440</b>	<b>2450</b>	<b>2460</b>	<b>2470</b>	<b>2480</b>	<b>2490</b>	<b>2500</b>
<b>Gain(dBi)</b>	<b>-4.78</b>	<b>-4.18</b>	<b>-3.02</b>	<b>-0.85</b>	<b>1.52</b>	<b>3.48</b>	<b>2.91</b>	<b>1.09</b>	<b>-2.36</b>	<b>-5.62</b>	<b>-6.56</b>

### 5.2 S Parameter

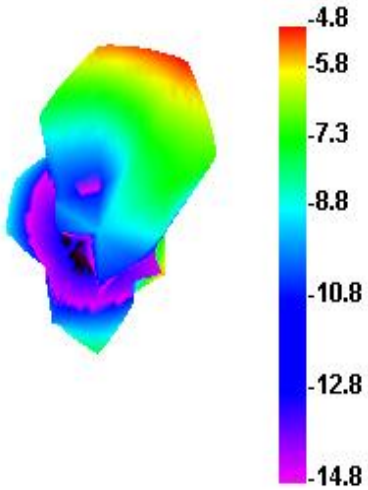
Frequency (MHz)	2410	2450	2480
ReturnLoss (dB)	-10.5	-11.3	-7.0
VSWR	1.86	1.74	2.62



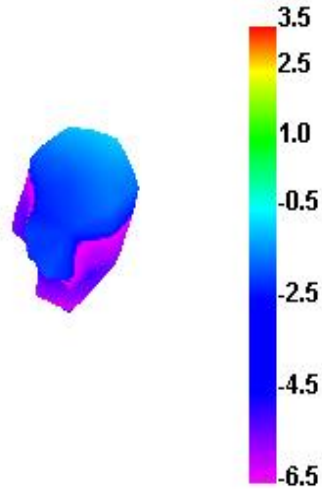


### 5.3 Antenna 3D Radiation Pattern (Unit:dbi)

2410.000MHz



2450.000MHz



2500.000MHz

