



Specification Recognition Certificate

Approval Sheet

customer name _____ **Exx** _____

(Customer Name)

product name _____ **HA100 Remote Control WIFI**
Antenna _____

(Specification)

Customer Part Number _____

(Customer P/N)

Product Material Code _____

(O/I)

Sample submission date: 2026-03-26
2026-03-26 _____

(Date)

frequency range	WIFI		
edition	A		
radio	Chen Mei	affirm	

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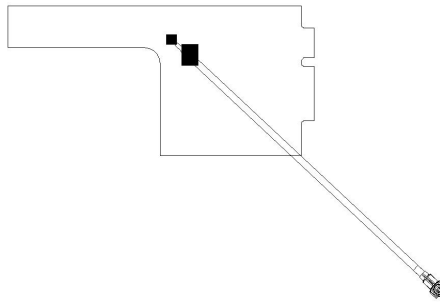
frequency	Team		
structure	Yang Xuezhong		
Customer Confirmation			
date			

catalogue

1. Project image
2. Testing fixture
3. Matching Circuit
4. S11 Test Electrical Performance
 - 4.1 S11 Test Method Description: Specification Standard
 - 4.2: 2.4WIFI efficiency/gain
 - 4.3: Direction Diagram
5. structural drawings
6. picture of real products

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1. Project image (for reference only)

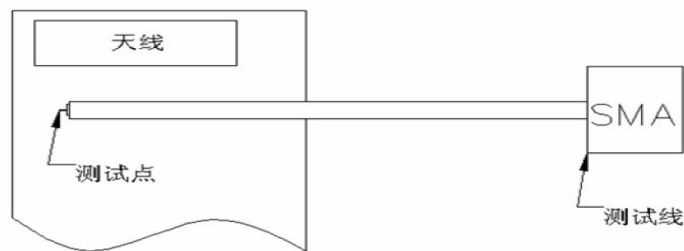


WIFI antenna

2. Passive Testing

Objective: To measure the antenna's passive parameters with the highest possible accuracy.

Method: This fixture utilizes a 50-ohm coaxial cable, with one end connected to the test point at the rear end of the matching circuit (prior to the RF test port) on the machine motherboard, and the other end connected to an SMA connector. The detailed configuration is shown in the figure below:



The table below presents the performance test specifications for the HA100 remote control WIFI mass-production antenna:

HA100 Remote Control WIFI Antenna				
	frequency (MHz)	VSWR	frequency (MHz)	VSWR
frequency range	transmitting terminal		receiving terminal	
2.4G WIFI	2400-2550	≤3.0	2400-2550	≤3.0

3. Matching Circuit

Antenna (match unchanged)

Element	Match Value
E1(0402)	
E2(0402)	0 ohms

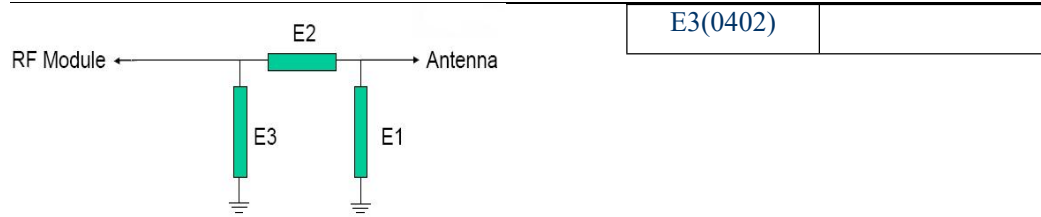
Shenzhen Desiqinqin Technology Co., Ltd.

Dosking MicroElectronics Co.,Ltd

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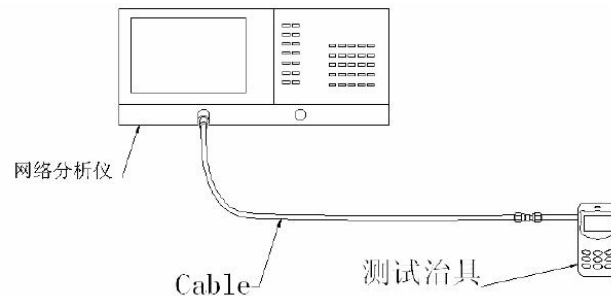


4. S11 Test

4.1 S11 Test Method Description: Specification Standard

The VSWR testing setup is connected in the following sequence: E5071B network analyzer → 50-ohm coaxial cable → 120-mm copper tube → test fixture.

Test fixture setup: From the 50-ohm test point of the antenna on the mobile phone PCB, use a rigid cable to terminate an SMA-J connector, which is then connected to a copper tube fitted with a choke coil, followed by sequential connections to other components.

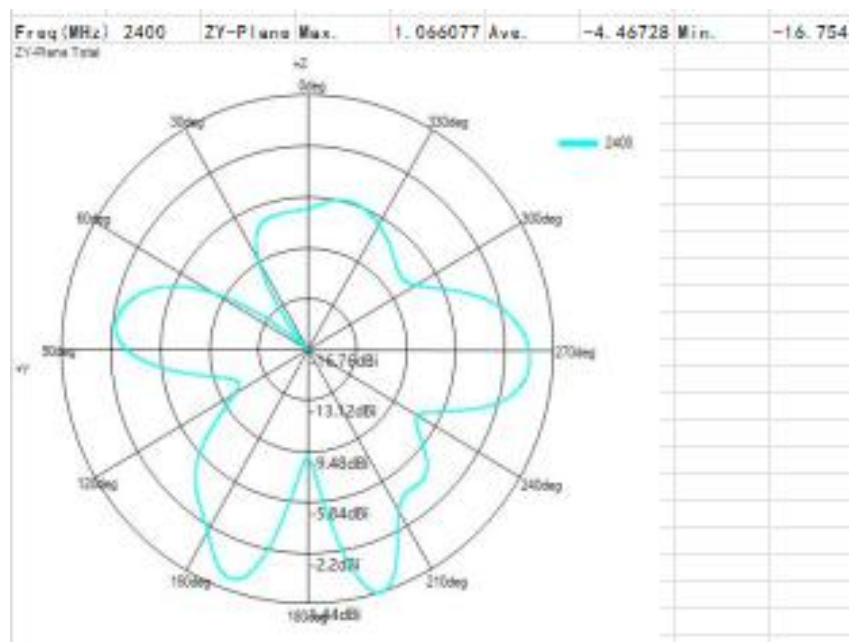
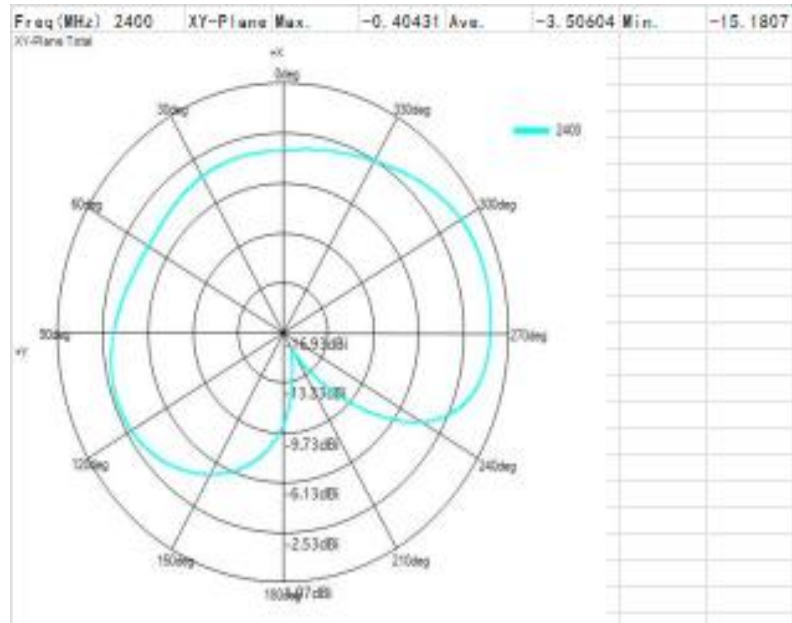


Test schematic diagram

4.2: 2.4WIFI efficiency/gain

Freq (MHz)	Gain(dBi)	Efficiency (dB)	Efficiency (%)
2400	1.066076538	-4.766285492	33.37117134
2410	1.09597652	-4.800106785	33.11229797
2420	1.104703492	-4.699848325	33.88559903
2430	1.116296608	-4.726452782	33.67865366
2440	1.065531215	-4.712603017	33.78622721
2450	1.137282377	-4.619300752	34.51993146
2460	1.262156369	-4.537785799	35.17397253
2470	1.112367325	-4.576590244	34.86109109
2480	1.006587733	-4.706270227	33.8355295
2490	0.880428138	-4.756559813	33.44598716
2500	0.883857754	-4.696973306	33.90803864

4.3: 2400MHZ Direction Diagram



Freq (MHz) 2400 Zx-Plane Max. 0.297311 Avg. -4.93526 Min. -11.8848
Zx-Plane Total

26.76 dB
13.12 dB
9.48 dB
5.64 dB
2.20 dB

0deg 30deg 60deg 90deg 120deg 150deg 180deg 210deg 240deg 270deg 300deg 330deg

1400

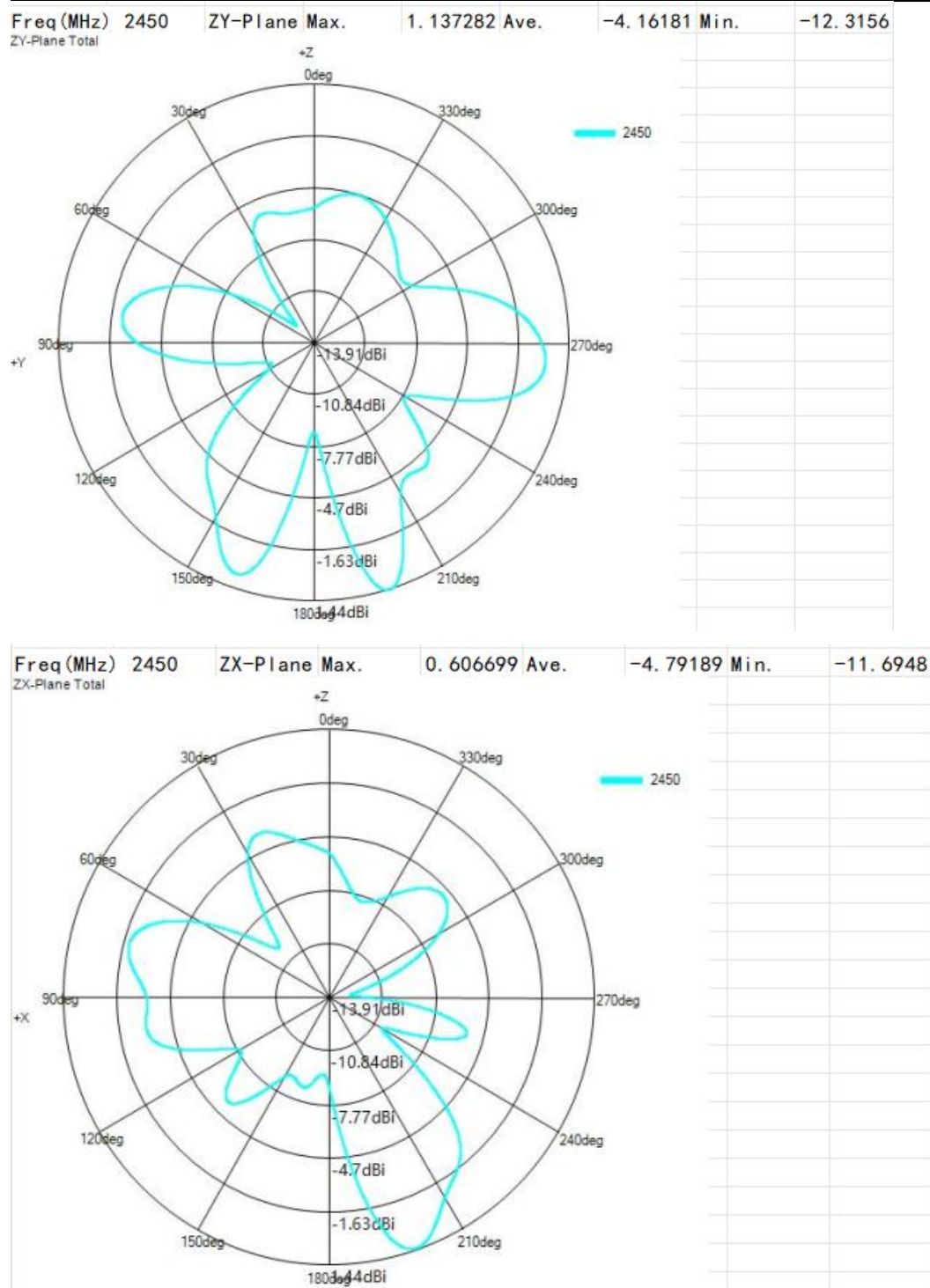
Freq (MHz) 2450 XY-Plane Max. -0.19903 Ave. -3.18212 Min. -13.6205
XY-Plane Total

0deg 30deg 330deg 300deg 270deg 240deg 210deg 180deg 150deg 120deg 90deg 60deg

+X
+Y

-0.19903 dBi
-3.18212 dBi
-13.6205 dBi

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4.3: 2500MHZ Direction Diagram

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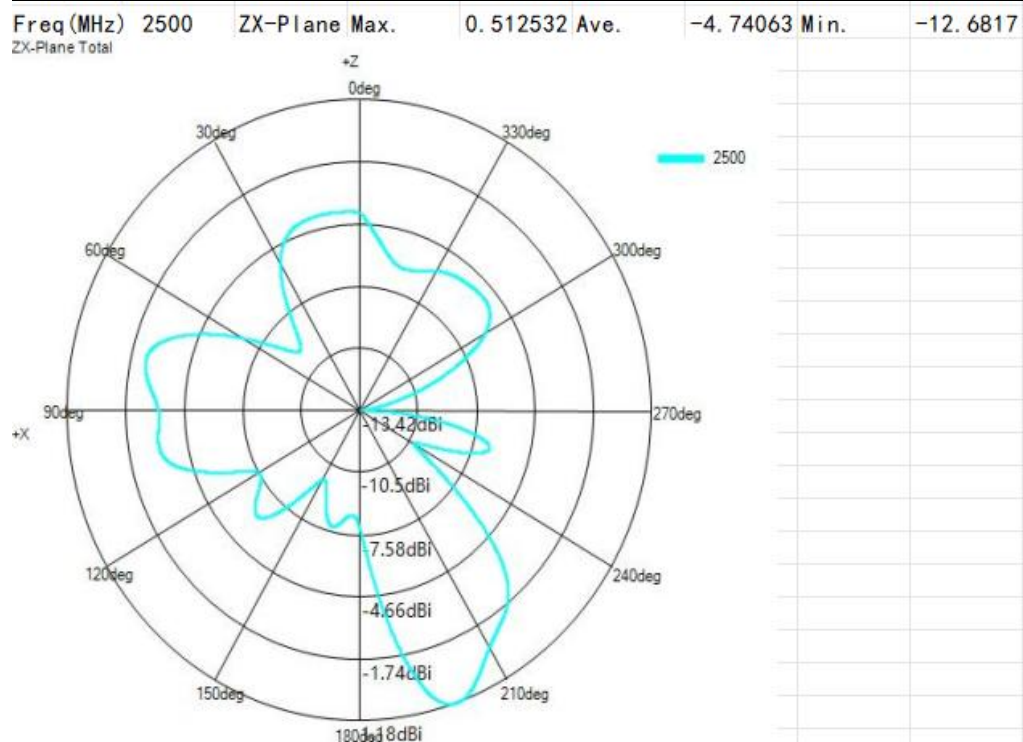
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5: Structural drawings

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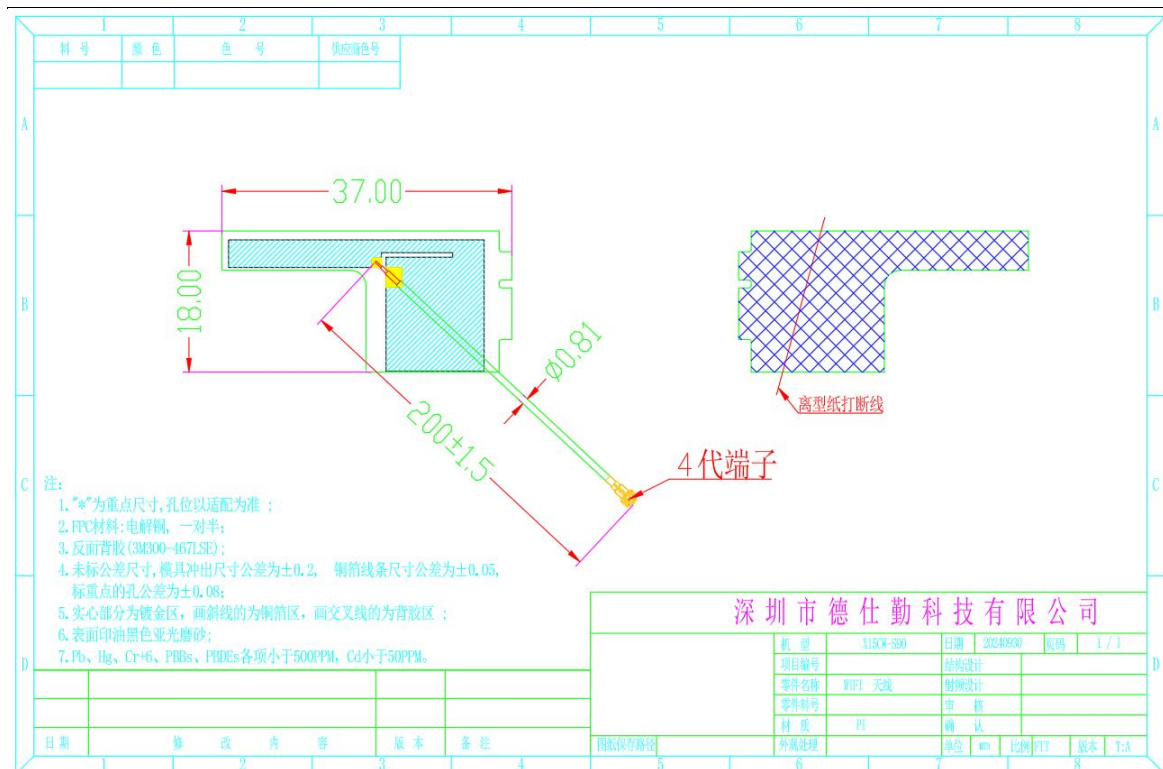
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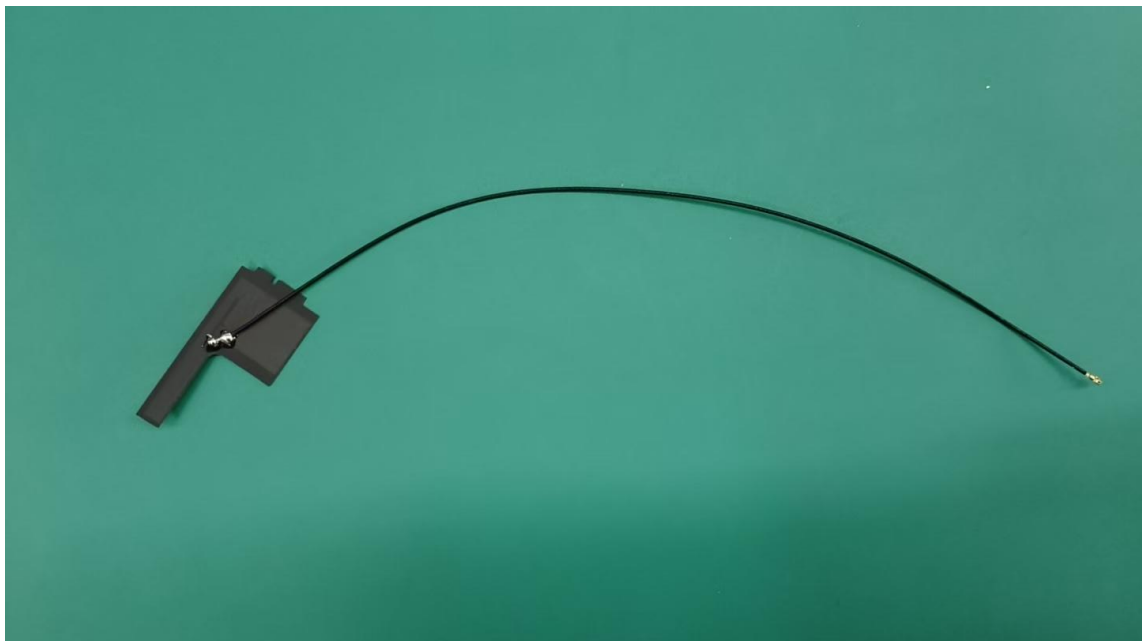
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6: Physical image



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