

Antenna specification

Antenna Sample Confirmation From

Name of supplier	ShenZhen Aihui Technology Co. , Ltd				
Customer name	Tuo Pu				
Sample name	U8pro				
model					
Sample size	Length of the copper tube antenna: 90mm				
Inspection item	Performance test	Visual inspection	Structure	In the news	Test results
Notes					
Quality Audit		Project Audit		Business confirmation	
The following is to be completed by the client					

Shenzhen Aihui Technology Co. , Ltd.

Customer feedback	
Customer signature/seal	date:

Antenna Test Report

Test Unit: Shenzhen Aihui Technology Co. , Ltd.			
Materials	FPC		
Antenna form	PIFA	Polarization mode	Linear
Application	2400Mhz-2500Mhz 5100Mhz-5850Mhz		

Shenzhen Aihui Technology Co. , Ltd.

scenario			
Working band	2400Mhz-2500Mhz 5100Mhz-5850Mhz	VSWR	≤2
Power	Max : 2W	Impedance	50Ω
dBi	≥2dBi		
Test Equipment	HPE5071C、Shielding Room、3D automatic turntable		
Antenna Description: : 1. Grounding processing and picture description: no 2. Need to change the motherboard to match: no ● Test voltage: 3.6V, check the antenna contact is good before testing. ● The RF cable of the integrated tester is kept in a natural state and can not be curled. Specification:test the specified power level, all indicators must conform to the specifications.			

- 1.Project Image
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- 4.S11 test
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- 8.Antenna SWR
- 9.Antenna position
- 10.Antenna mass production index
- 11.Structural drawings

1.Project Image

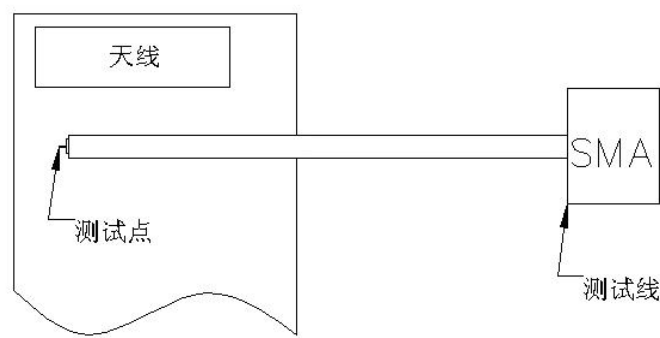
The final verification antenna performance prototype in our company for at least one year, easy to analyze and solve the problem of antenna mass production, to ensure the quality of antenna shipment

2.Test Fixture

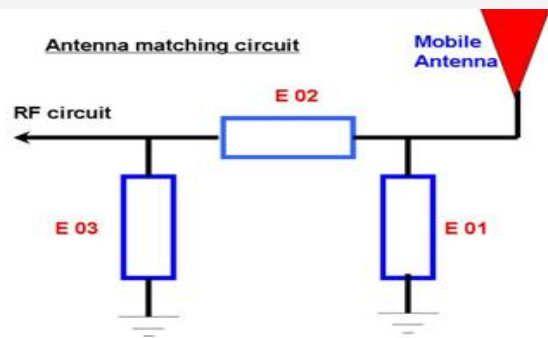
Objective: to test the passive parameters of antenna as accurately as possible. Making

Method: the handset is made of a 50 ohm coaxial cable, one end of which is connected to the test point of the back end of the matching circuit of the handset motherboard (front end

of the RF test hole) , and the other end is connected to the SMA joint. The diagram is as follows:



3、Antenna matching circuit



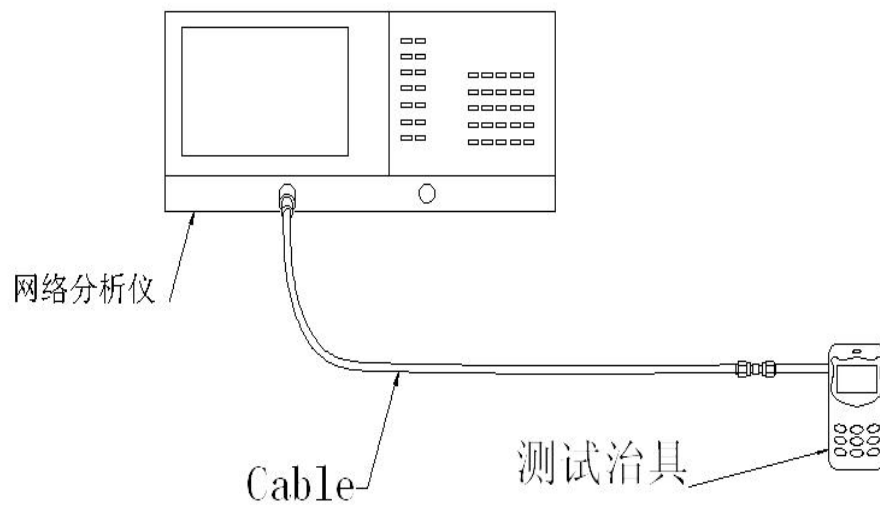
Modify

E01	E02	E03
No	No	No

Note: The match is unmodified.

4.S11 test

4.0 4.0s11 test method description of test equipment: Network Analyzer (E5071C) test method: a 50 ohm CABLE is used to export from the instrument test port. The SMA connector for connecting the handset is calibrated using a calibration piece, record the echo loss and standing wave ratio corresponding to the relevant frequency points. The test schematic is as follows:

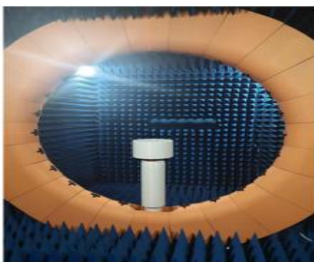


5.Test Equipment

Test system: shielded darkroom

The temperature was $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and the humidity was $50\% \pm 15\%$

Test equipment: when testing passive data, use the Network analyzer AGILENT E5071C to test active data, use the omnibus CMW500

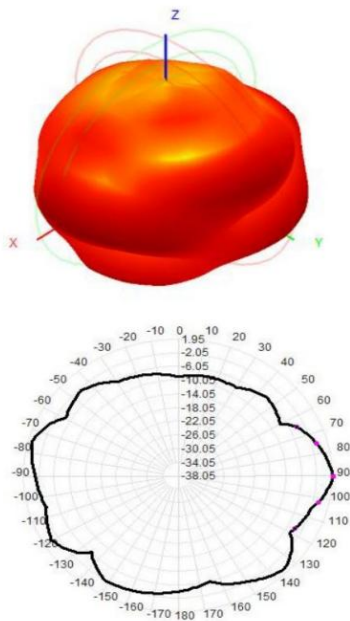


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6.Active antenna test data

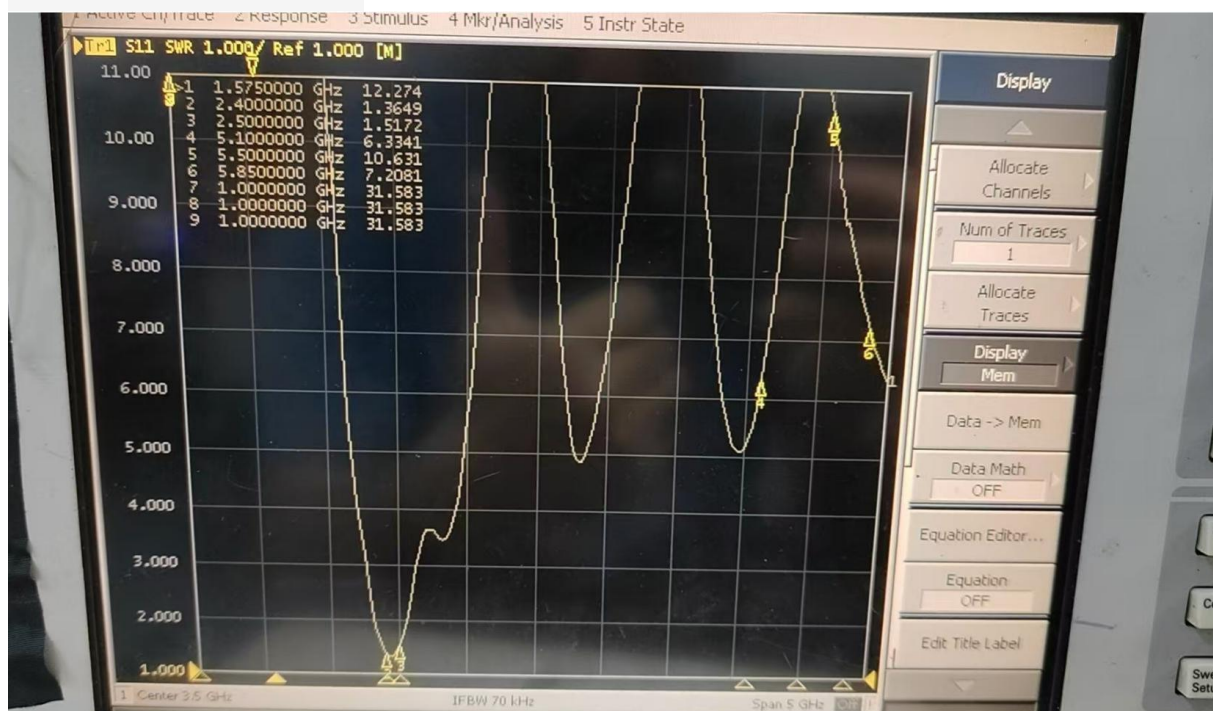
Frequency Band	2. 4GWIFI-B模		
channel	L	M	H
TRP	16. 95	16. 54	17. 15
TIS	-75. 58	-80. 69	-81. 23

7.Antenna passive test data

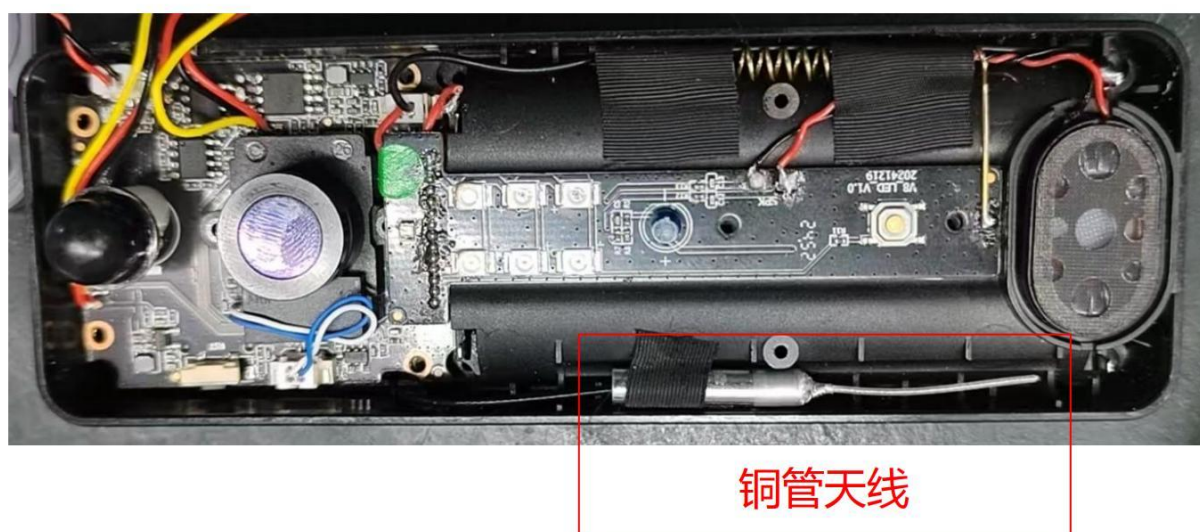


测试数据:		
WIFI 2. 4G		
Freq(MHz)	Efficiency (%)	Gain (dBi)
2400	57.69	1.68
2410	55.48	1.86
2420	58.36	1.37
2430	56.74	1.83
2440	58.18	1.49
2450	57.22	1.57
2460	58.91	1.95
2470	59.73	1.66
2480	59.82	1.37

8. Antenna SWR



9. Antenna position



10. Antenna mass production index

When the antenna is mass-produced, the standing wave ratio is taken as the mass-produced test standard.

Based on the differences of the project itself, the following criteria are given:

Frequency	Standard for volume production
2400 MHZ -2500MHZ 5100 MHZ-5850 MHZ	VSWR (Mass Production performance) & LT; VSWR(recognition performance) 0.5

11.Structural drawings

