

深圳市艾汇科技有限公司

Antenna Specification Document

Antenna Sample Confirmation From

Vendor Name	ShenZhen Aihui Technology Co., Ltd				
Customer Name	Rebos				
Sample Name	K10-Base Station				
Number	Built-in Antenna				
Specification	WiFi1:130 mm, 1.13 wire diameter;1 generation of terminals; black WiFi2:70 mm, 1.13 wire diameter;1 generation terminal; gray				
Inspection Item	Performance	Total Appearance	structure	Other	Result
	OK	OK	OK	OK	Qualified
Note Remark					
Audit		Engineer Audit	Cao Yang	Sales Confirm	
The following are filled by Customer					
Customer Evaluation					
Signation/ Chapter by Customer	Date/date: 2026.03.09				

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Antenna Test Report

Testing Unit: Shenzhen Aihui Technology Co., Ltd.			
Material :	External + Coaxial Cable		
Antenna Type	MonopoleType	Polarization Method Polarization mode	Linear
Application Scenarios			
Working Frequency Band	WIFI	VSWR	≤2
Power Power	Max: 2W	Impedance Impedance	50Ω
Gain dBi	≥2dBi		
Testing facility 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.			

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1、Project Image

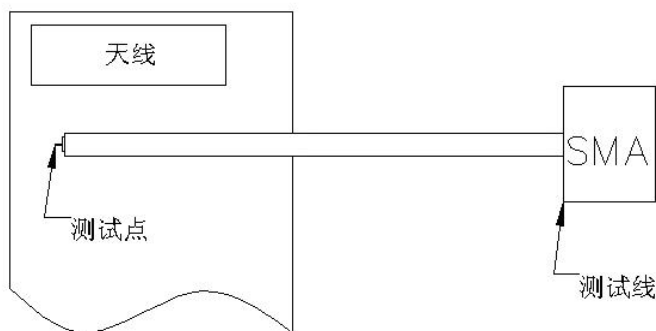
Note: The customer-approved antenna performance prototype will be retained by our company for at least one year to facilitate analysis and optimization for mass production.

Abnormal situation: Ensure antenna shipping quality

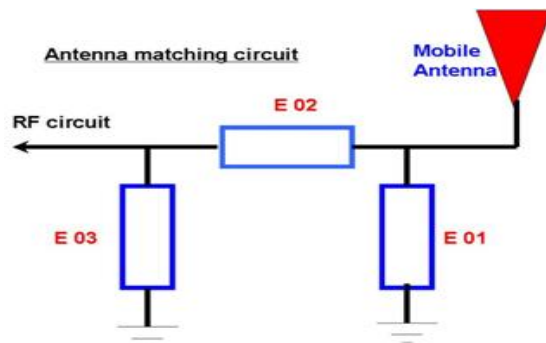
2、Test Fixture

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

Construction method: The handheld test kit uses a 50-ohm coaxial cable, with one end connected to the test point at the rear end of the matching circuit (front end of the RF test port) on the mobile phone's motherboard, and the other end connected to an SMA connector. The schematic diagram is shown below:



3、Antenna Matching Circuit



Modify Point / Modify

E01	E02	E03
No	No	No

Note: No modifications made to the match.

Address: 3rd Floor, Building 2, Qiyu Industrial Park, No.17 Sanwei Industrial Road, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen City

TEL: 0755-23203435 FAX: 0755-23203435

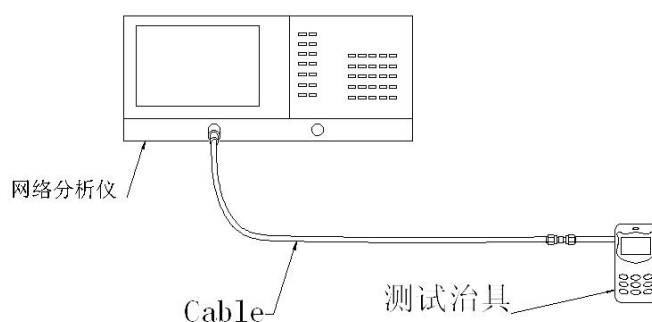
4. S11 Test

4.0 S11 Test Method Description

Test Equipment: Network Analyzer (E5071C)

Testing Method: Connect a 50-ohm cable from the instrument's test port, calibrate it using a calibration component, and then connect it to the SMA connector of the mobile fixture. Record the return loss and standing wave ratio at the corresponding frequencies.

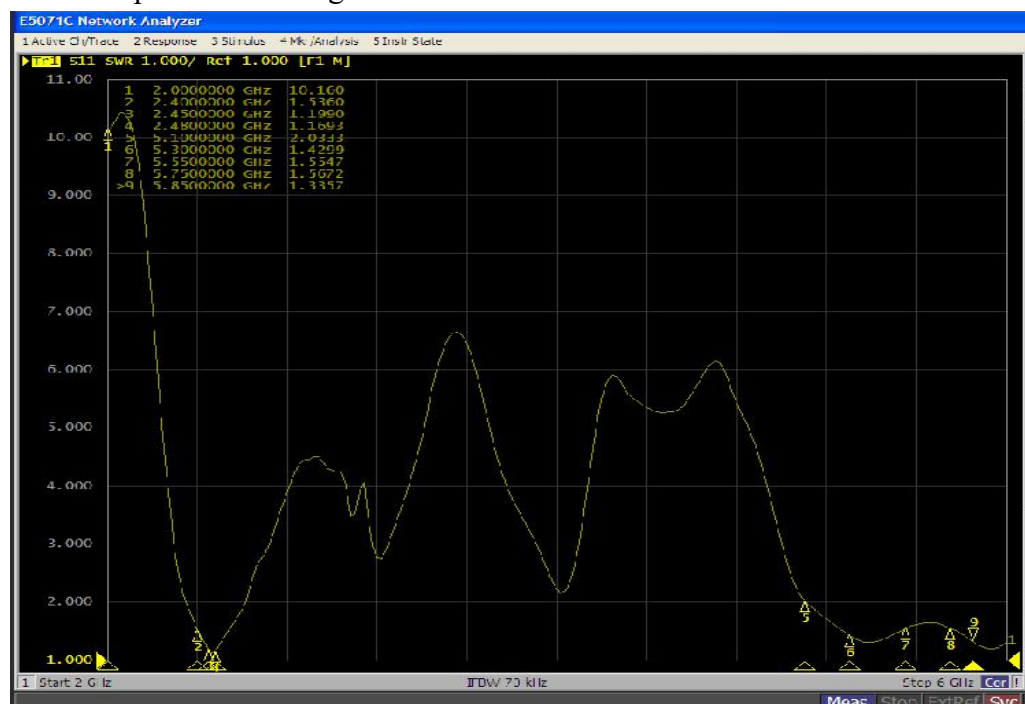
The test schematic is as follows:



Test Schematic

4.1 S11 Parameter Images

The passive standing wave ratio of the main antenna



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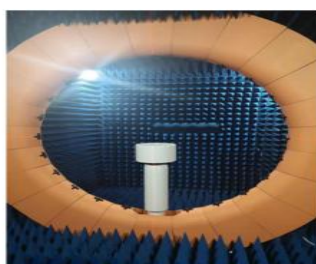
5、 Darkroom Testing Equipment and Data

6.0 testing facility

Testing System: Shielded Chamber

Test environment: Temperature **22°C** $\pm 3^{\circ}\text{C}$, humidity 50% $\pm 15\%$

Testing equipment: Use the Agilent E5071C network analyzer for passive data testing, and the CMW500 comprehensive tester for active data testing.



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6. Antenna Active Testing Data

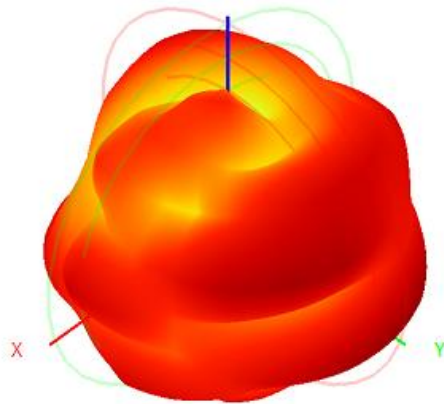
Frequency Band	WIFI-2.4G-B模			WIFI-2.4G-G模		
channel	L	M	H	L	M	H
TRP	19.36	19.42	19.52	18.52	17.55	17.52
TIS	-89.65	-90.21	-88.95	-72.35	-72.55	-72.14
Frequency Band	WIFI-2.4G-N模					
channel	L	M	H			
TRP	17.36	17.41	17.06			
TIS	-69.35	-70.21	-69.81			

6.1 Antenna Passive Testing Data

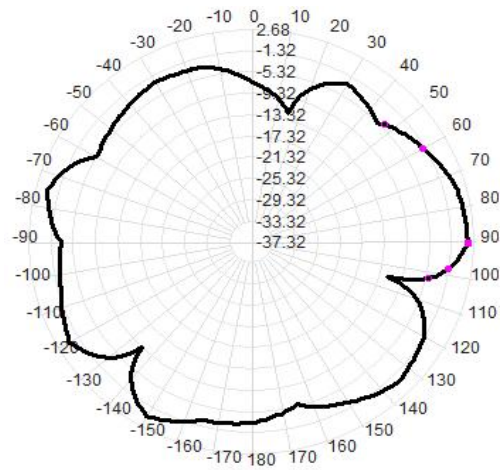
Test data :		
WIFI 2.4G		
Freq(MHz)	Efficiency (%)	Gain (dBi)
2400	61.52	2.30
2410	62.33	2.45
2420	64.15	2.51
2430	62.35	2.22
2440	64.19	2.68
2450	61.06	2.50
2460	62.07	2.16
2470	63.15	2.06
2480	63.06	2.07
2490	64.20	2.14
2500	61.64	2.24

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2440MHz



2440MHz



7. Antenna Assembly Schematic Diagram

/

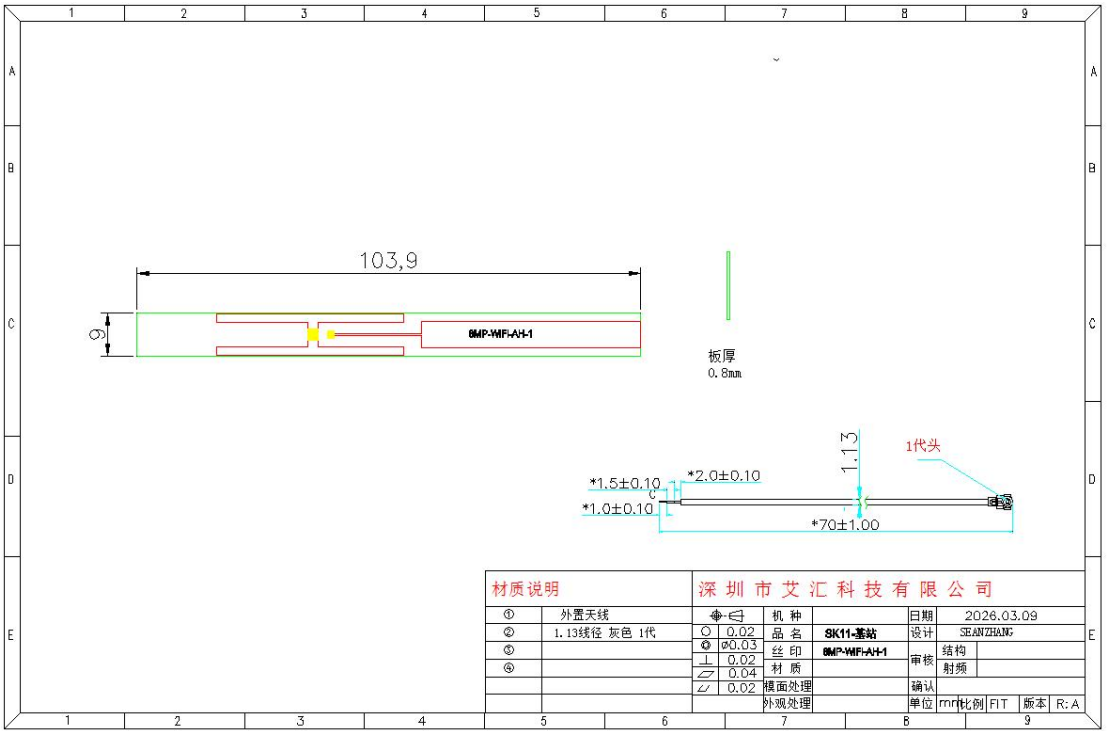
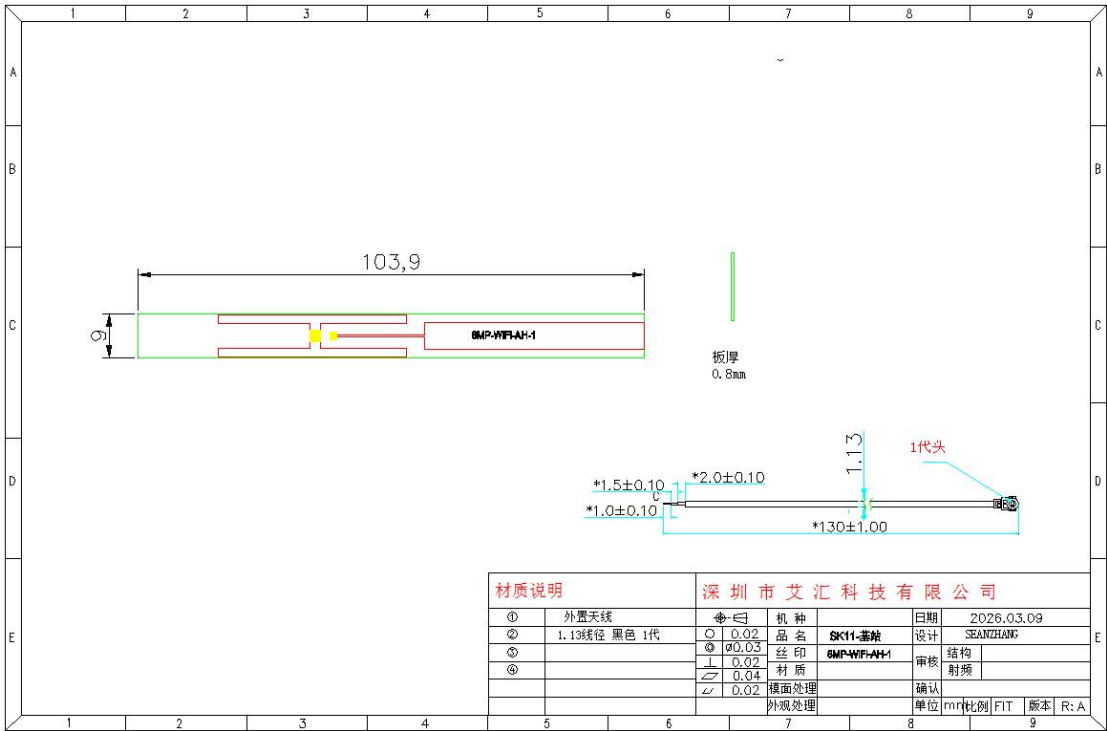
8、 Antenna Mass Production Specifications

During mass production of antennas, the standing wave ratio serves as the testing standard. Depending on project-specific requirements, the following standards apply:

Frequency	Mass Production Standards
2400MHZ-2500MHZ	VSWR (mass production performance) < VSWR (recognized performance) + 0.5

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9.Structural Drawings



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10、 Sample Size Inspection Report

Sample Size Inspection Report

Model: SK10 Base Station

Date: 2026.03.09

Surveillance project		Standard	Sample Inspection Status (Value)					Judge	Remarks
			1	2	3	4	5		
Antenna structural dimensions	WiFi 1 (Long Range)	$130 \pm 1\text{mm}$	130	130	130	130	130	Qualified	
	A2 (Long)	$103.9 \pm 1\text{mm}$	103.9	103.9	103.9	103.9	103.9	Qualified	
	A3 (Width)	$9 \pm 1\text{mm}$	9	9	9	9	9	Qualified	
	WiFi 1 (Long Range)	$70 \pm 1\text{mm}$	70	70	70	70	70	Qualified	
	A2 (Long)	$103.9 \pm 1\text{mm}$	103.9	103.9	103.9	103.9	103.9	Qualified	
	A3 (Width)	$9 \pm 1\text{mm}$	9	9	9	9	9	Qualified	
	A7								
	A8								
	A9								
	A10								
	A11								

approval :

examine and verify :

test :

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11、 Reliability Testing Report

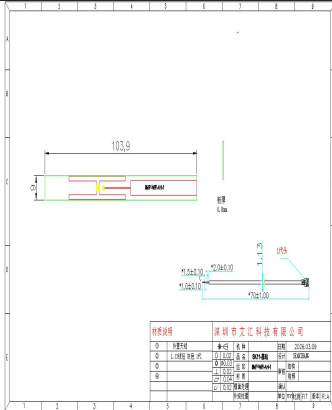
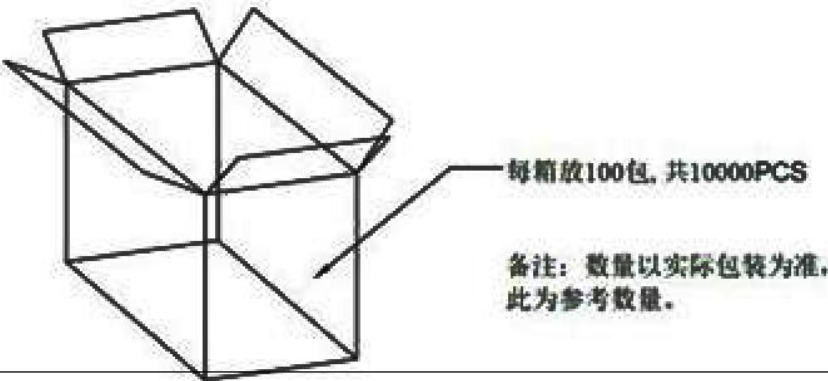
Salt Spray Testing Report

number :

Product name		Number of Tests	5set				
Product Material Number		Testing standard	GB2423. 17				
Examination date		Product Materials					
Testing time :							
Test item	Requirements Standards	Actual numerical value	Judge	Test item	Requirements Standards	Actual numerical value	Judge
Test Instrument Specifications	KD-60	KD-60	OK	Testing time	48H	48H	OK
Salt Spray Test Types	NSS neutral	NSS neutral	OK	Salt spray chamber temperature	35℃	35℃	OK
Saline pH value	6. 5-7. 2	6. 5-7. 2	OK	Salt spray deposition amount (H-80℃)	1-2ml	1. 8ml	OK
Spraying Method	Continuous Spraying	Continuous Spraying	OK	Product Material	Yellow metal	Yellow metal	OK
Composition of saline solution	5%NaCl	5%NaCl	OK	Compressed Air Pressure Reduction	1 ± 0. 1KG/CM ²	1	OK
Saturation temperature	47℃	47℃	OK	Sample placement angle	45°	45°	OK
Test Observation Time	Observation Phenomenon						
4H	NA						
8H	NA						
12H	NA						
16H	NA						
20H	NA						
24H	NA						
48H	NA						
Classification criteria: According to the rating method specified in National Standard 5944-86, grades 9 and above are deemed qualified.							
Final Judgment Result	Qualified						
Tester		Examine and verify			Examine and approve		
Note: Common salt spray testing methods include the NSS medium salt spray test, the AASS acetate salt spray test, and the CASS copper-acetic acid accelerated test.							

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Shenzhen Aihui Technology Co., Ltd. Product Packaging Operation Specifications

Customer: Reibos		Packaging Name: SK11		Bale number :		Packaging Version: TEST: A	
Material Details:	Number	Name of a part	Specifications	Dosage	Packaging Product Illustration		
	PE	Seal the package	/	/			
	SYC-BZ-01	Carton	/	/			
Job step	1. Place the required packaging materials in a location conducive to work. 2. According to product packaging specifications, package using cardboard boxes/PE bags. 50 pieces per pack.				Matters need attention	1. Operators must wear gloves when working. 2. Pay attention to the quantity of items packed; do not overpack or underpack. The last digit must be specified. 3. Cartons should not be stacked too high to prevent overflow due to excessive weight. Glue 。	
							
Figure Description							
Remarks							
Approval		Examine and verify		Fabrication		Date	

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