Antenna specification

Antenna Sample Confirmation From

Name of supplier	ShenZhen Aihui Technology Co., Ltd				
Customer name		Hui Kun			
Sample name		P1100			
model					
Sample size	WIFI anten	na: 175mm 3	3-genera	tion terr	ninal
Inspection	Performance test	Visual inspection	Structure	In the	Test results
item					
Notes					
Notes Quality Audit		Project Audit		Business confirm ation	

Customer	
feedback	
Customer	
signature/seal	date:

Antenna Test Report

Test Unit: Shenzhen Aihui Technology Co. , Ltd.				
Materials	FPC coaxial line			
Antenna type	MonopoleType Polarization mode Linear			
Application				
scenario				
Working band	2400Mhz-2500Mhz 5100Mhz -5850Mhz			
Power	Max: 2W	Impedance	50 Ω	

dBi	≥1.0dBi
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.

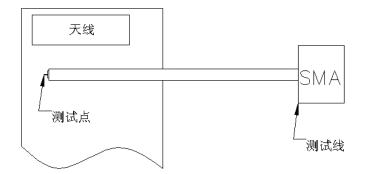
- 1. Project Image
- 2. Test Fixture
- 3. Antenna matching circuit
- 4.S11 test
- 5. Antenna passive efficiency and gain
- 6. Darkroom test equipment and data
- 7. Schematic diagram of antenna assembly
- 8. Antenna environment handling
- 9. Antenna mass production index
- 10.Structural drawing

1.Project Image

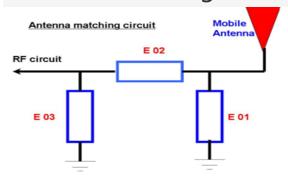
The final verification antenna performance prototype in our company for at least one year, easy to analyze and solve the problem of antenna mass production, to ensure the quality of antenna shipment

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



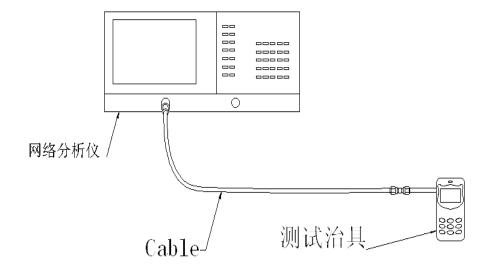
Modify

E01	E02	E03
No	No	No

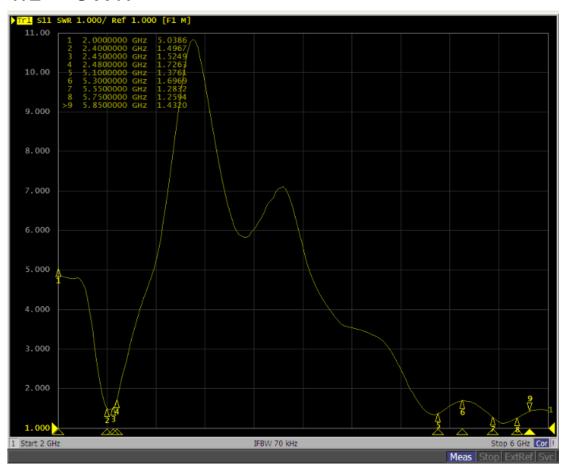
Note: The match is unmodified.

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:



4.1 SWR



5.Darkroom test equipment and data

6.Test Equipment

Test system: shielded darkroom

The temperature was 22 ° C ± 3 ° C and the

humidity was 50% ± 15%

Test equipment: when testing passive data, use the Network analyzer AGILENTE5071C to test active data, use the omnibus CMW500





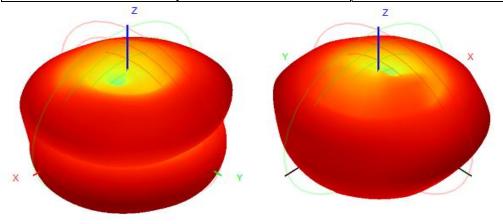


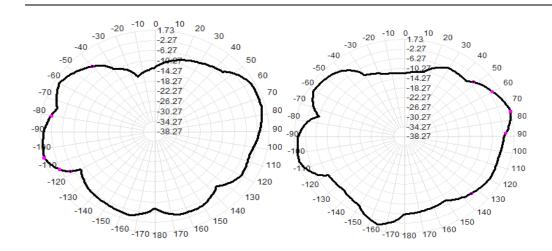


7. Active antenna test data

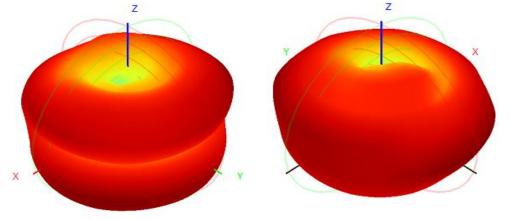
Frequency Band	2. 4GWIFI-B模		5GWIFI-A模			
channe1	L	М	Н	L	М	Н
TRP	15, 96	15.89	15. 59	15.06	14. 43	13.82
TIS			-84. 81			-71. 21
Frequency Band	1	2. 4WIFI-G	Ď.		2. 4WIFI-N	Ď.
channel	L	М	Н	L	М	Н
TRP	14. 14	13. 96	13. 75	13. 56	13, 39	13.07
TIS			-70.76			-70. 26

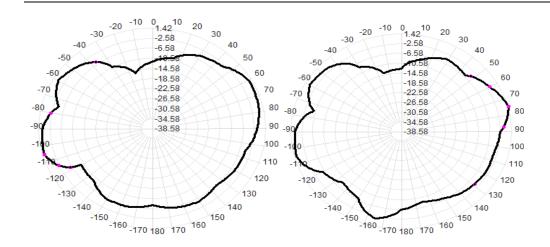
WIFI Test Data:				
2400	52.5	1.45		
2410	56.3	1.25		
24 20	55.5	1.30		
2430	54.5	1.28		
2440	53.2	1.73		
2450	51.9	1.47		
2460	59.8	1.58		
2470	58.7	1.62		
2480	57.3	1.08		



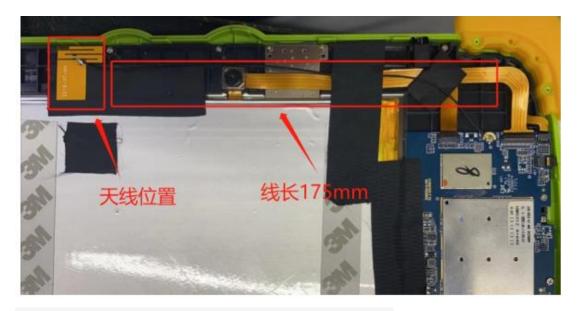


WIFI Test Data:				
5100	54.26	1.02		
5200	56.33	1.01		
5300	57.15	1.05		
5400	58.25	1.30		
5500	54.62	1.42		
5600	58.14	1.25		
5700	59.25	1.05		
5800	54.15	1.15		
5850	55.30	1.33		





8. Schematic diagram of antenna assembly



9. Antenna environment handling

10.Antenna mass production index

When the antenna is mass-produced, the standing wave ratio is taken as the Standard for volume mass-produced test production standard. Based on the differences of the project itself, the following criteria are given: **VSWR** (Mass Production performance) & LT; 2400 MHZ -25000MHZ VSWR(recognition performance) 0.5

10.1 Structural drawings

