Antenna specification

Antenna Sample Confirmation From

Name of supplier	ShenZhen Aihui Technology Co., Ltd				
Customer name	Corkin Ming				
Sample name		2218			
model	FPC				
Sample size	(1.13) black, 100mm long. (Generation 1 terminal)				
Inspection	Performance test	Visual inspection	Structure	In the	Test results
item					
Notes					
Quality Audit		Project Audit		Business confirm ation	
The following is to be completed by the client					

Customer	
feedback	
Customer	
signature/seal	data:

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	VSWR	≤2
Power	Max : 2W	Impedance	50Ω
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.

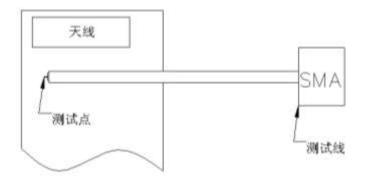
- 1. Project Image
- 2.Test Fixture
- 3. Antenna matching circuit
- 4.S11 test
- 5. Antenna passive efficiency and gain
- 6. Darkroom test equipment and data
- 7. Schematic diagram of antenna assembly
- 8. Antenna environment handling
- 9. Antenna mass production index
- 10.Structural drawing

1.Project Image

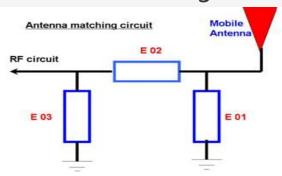
The final verification antenna performance prototype in our company for at least one year, easy to analyze and solve the problem of antenna mass production, to ensure the quality of antenna shipment

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



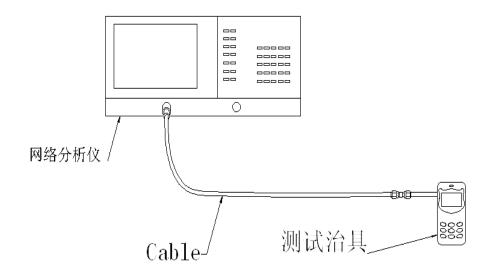
Modify

E01	E02	E03
No	No	No

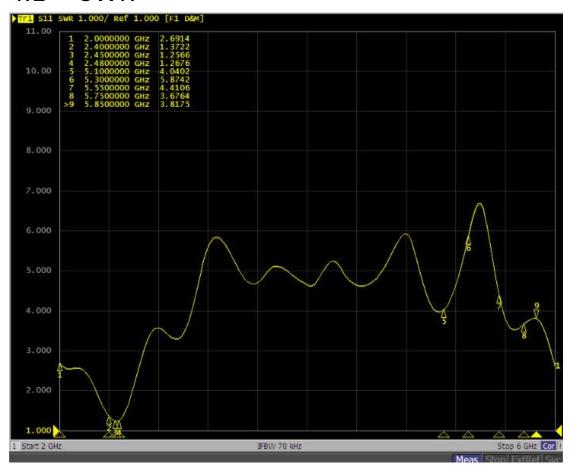
Note: The match is unmodified.

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



Frequency	2400	2450	2500
Standing wave ratio	1.3	1. 2	1. 2

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	3	IFI 2.46/	В		FIFI 2.4G/	G
channel	L	1	н	L	*	н
TRP	11.4	12. 9	11.2	10.5	10. 6	10.8
TIS			-78.2			-66.3
Frequency Band		O IIFI 2. 46/	N			
channel	L	I	н			
TRP	10.5	10.5	10.3			
TIS			-62.5			

		1
Freq(MHz)	Efficiency (%)	Gain (dBi)
2400	58.4	1.12
2410	59.5	1.05
2420	60.2	1.31
2430	51.5	0.98
2440	53.5	0.88
2450	51.5	0.74
2460	59.6	0.95
2470	58.7	1.04
2480	59.3	1.21
2490	60.2	1.30
2500	61.4	1.25

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	Starragia for Volume
standard. Based on the	production
differences of the project	
itself, the following	
criteria are given:	
	VSWR (Mass Production
	performance) & LT;
2400 MHZ -25000MHZ	
2400 WITE -23000WITE	VSWR(recognition
	performance) 0.5

10. Structural drawings

