



SHENGZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

Mobile communication terminal antenna
Product design and manufacturing specifications

◆ Customer: Vanstone

◆ Project: Q181 Mini 1605

◆ Name: WIFI Antenna

PCB ☒ FPC ☐ support ☐ coaxial ☐

◆ Part no:

◆ Designer:

◆ Check:

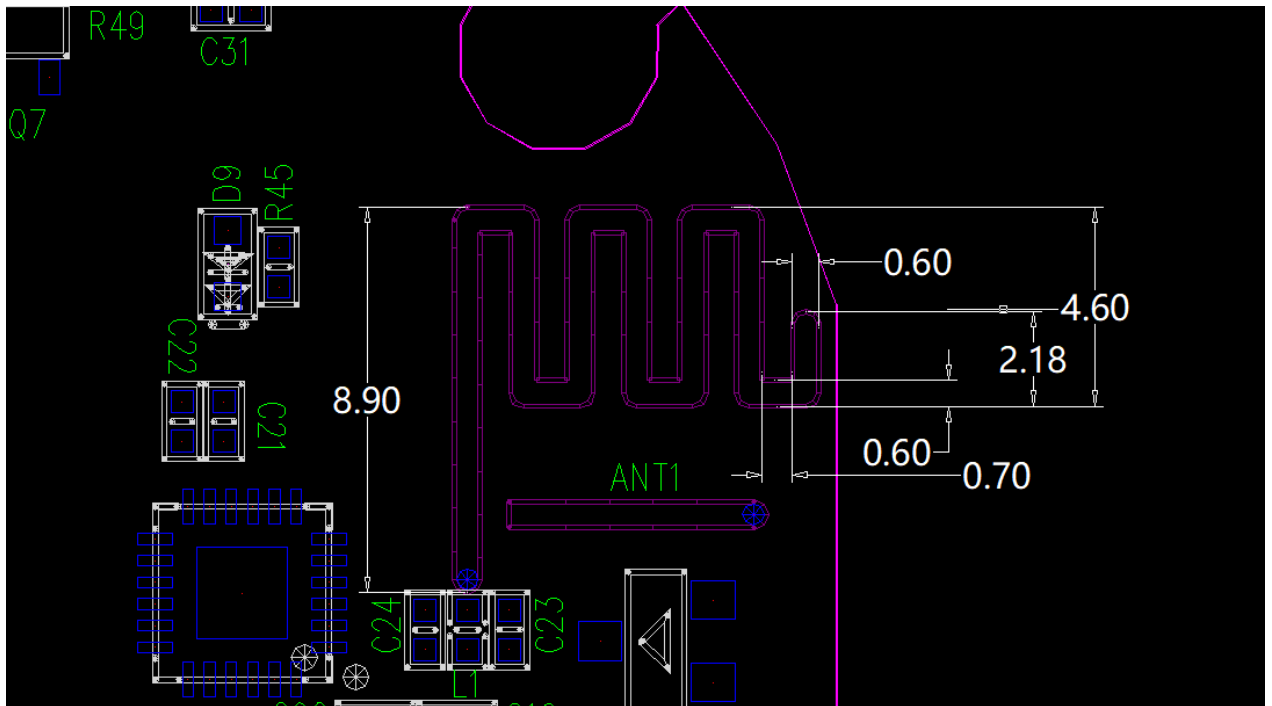
◆ Approved:

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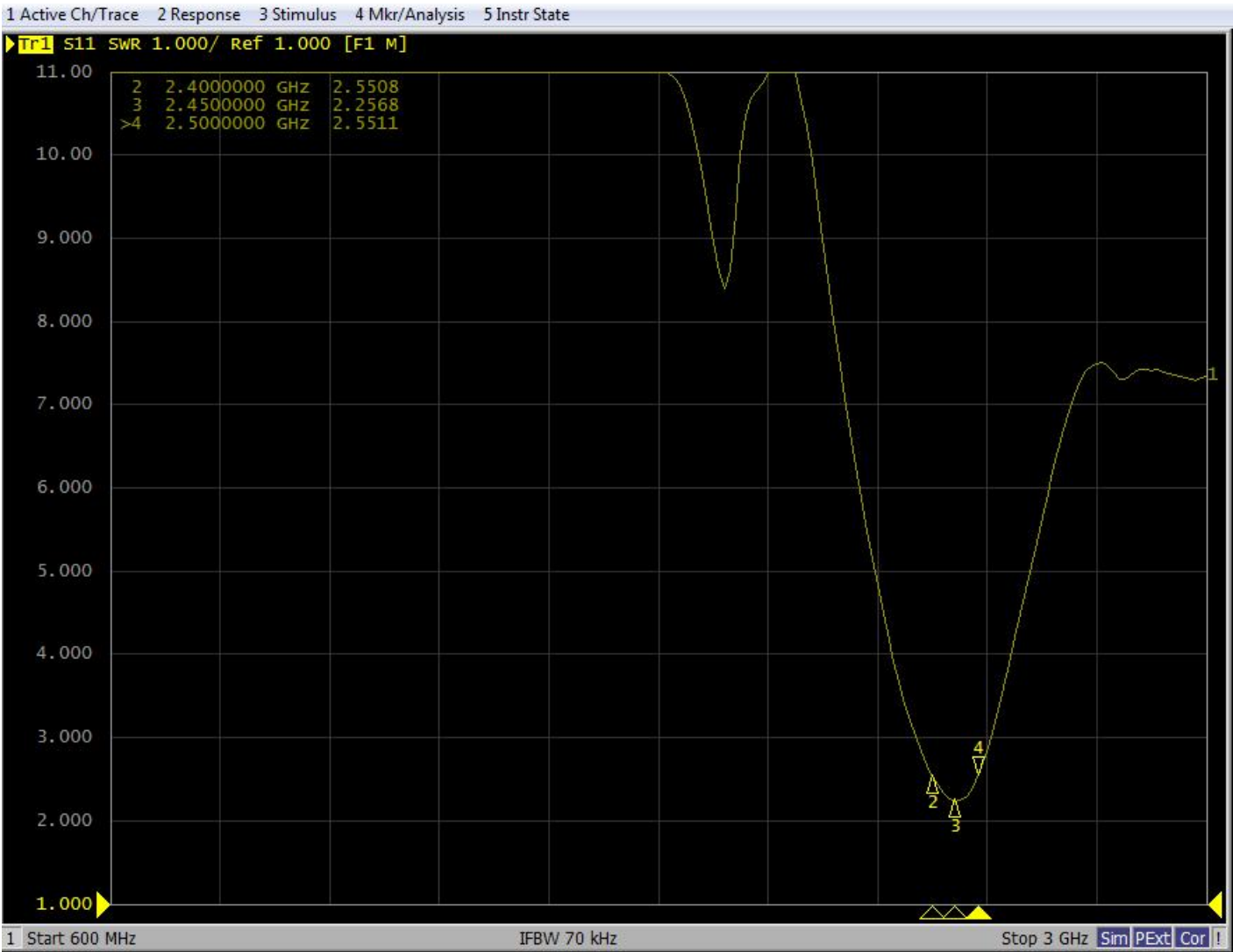
1. Antenna finished product



2. Technical indicators

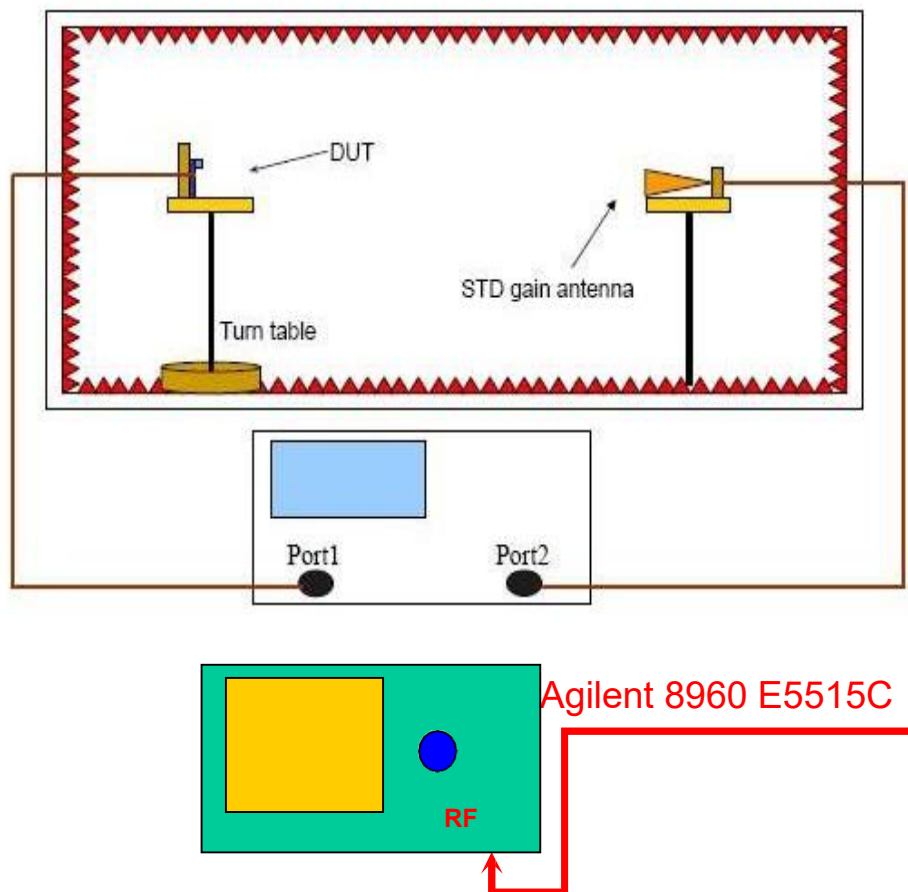
A. Electrical properties	
Operating frequency range	2400 ~2500 MHz
Standing wave ratio	2400 ~2500MHz: < 3.0
Antenna gain(Max)	2400 ~2500MHz: -1.17dBi
Antenna efficiency (average)	2400 ~2500 MHz: 22.6 %
Impedance	50 ohm
B. Material	
FR4	
C. Environment	
Operating temperature	- 40°C ~ + 85 °C
Stored temperature	- 40°C ~ + 85 °C

3.S11 VSWR/Impedance Test Results



4.Dynamic test data

Test instrument: Agilent 8960 E5515B+ Shield Box

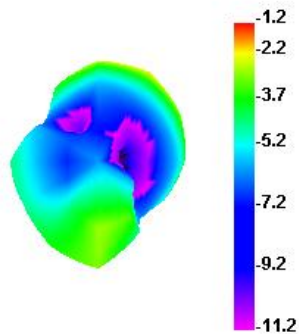


5. Antenna actual test data

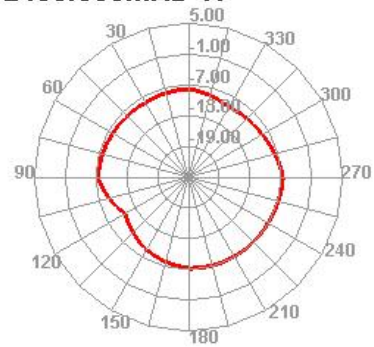
Passive Efficiency/Gain/Pattern

Freq (MHz)	Effi (%)	Gain (dBi)
2400	24.25	-1.17
2410	23.86	-1.17
2420	22.43	-1.69
2430	25.35	-1.2
2440	22.78	-1.76
2450	24.39	-1.69
2460	20.44	-2.78
2470	22.2	-2.53
2480	21.08	-2.96
2490	22.01	-2.74
2500	20.47	-3.16

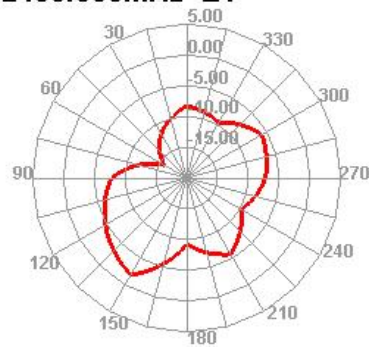
2400.000MHz



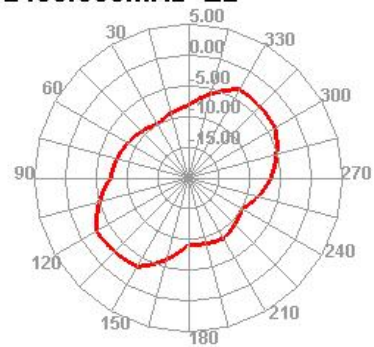
2400.000MHz H



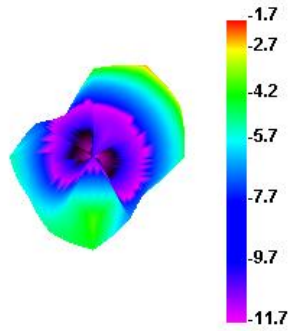
2400.000MHz E1



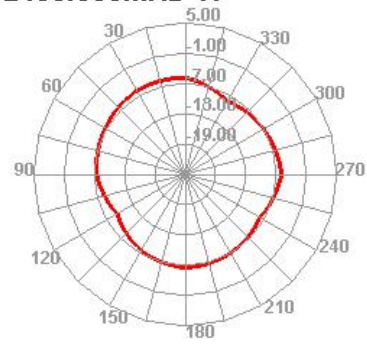
2400.000MHz E2



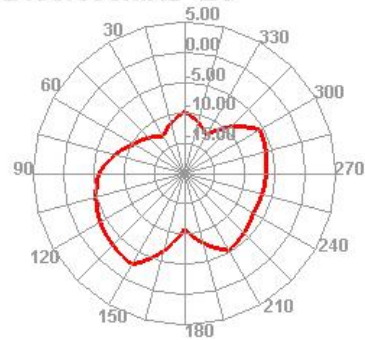
2450.000MHz



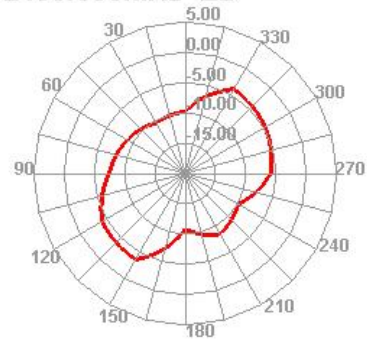
2450.000MHz H



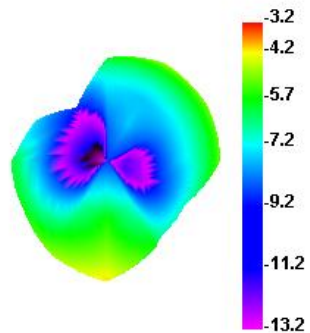
2450.000MHz E1



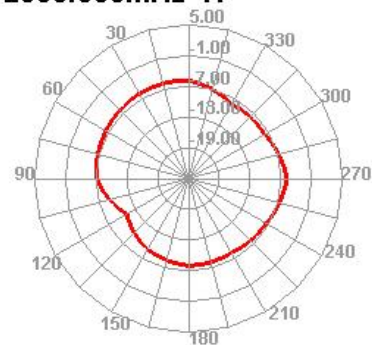
2450.000MHz E2



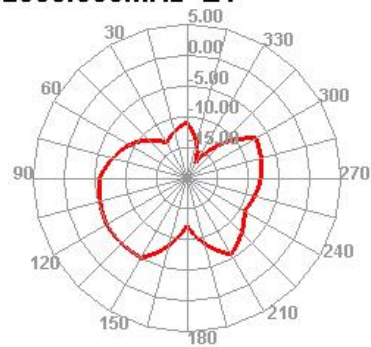
2500.000MHz



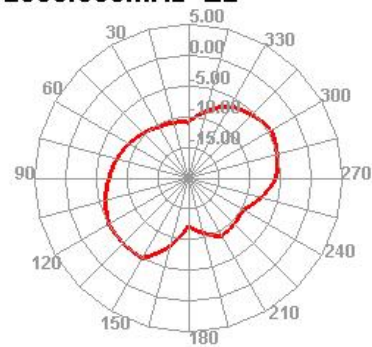
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



Note:

- 1. The above test results are limited to the test prototype**
- 2. Changes in the overall casing material process, software version, accessories (camera FPC, speakers, earpieces, motors, batteries, etc.), and chips will lead to changes in the performance of the overall antenna.**
- 3. Changes in the environmental processing of the whole machine (such as grounding position, size, shielding method, etc.) lead to changes in the performance of the whole machine**

Solemnly declare:

The intellectual property rights of this antenna design and research and development are owned by our company. If we find that the same products are supplied to your company without our permission, our company will investigate the corresponding legal responsibilities according to law. Please respect the intellectual property rights. Your support is our unlimited power. , thank you for your cooperation!

Antenna Picture/天线图片



Installation Instructions/安装说明

