规格承认书
Approval Sheet

客户名称_____东莞市鑫泰仪器仪表有限公司_____

(Customer Name）

产品名称_____HT-W01-WIFI 天线_____

(Specification)

客户料号_____

(Customer P/N)

产品料号_____

(O/I)

送样日期_____2023-11-02_____

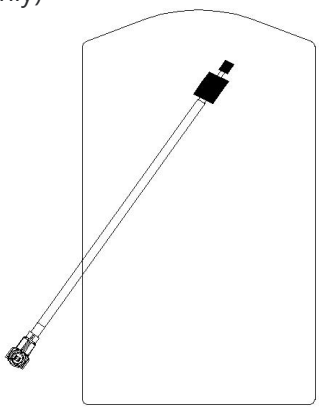
（Date）

频段	WIFI		
版本	A		
射频	陈美队	确认	
结构	杨学忠		
客户确认			
日期			

深圳市德仕勤科技有限公司
Dosking MicroElectronics Co.,Ltd
地址：深圳市南山区西丽大学城民企科技园 2 栋（港鸿基大厦）西座 403
TEL:0755-88602767 FAX:0755-82793883

catalogue

1. Project picture (for reference only)

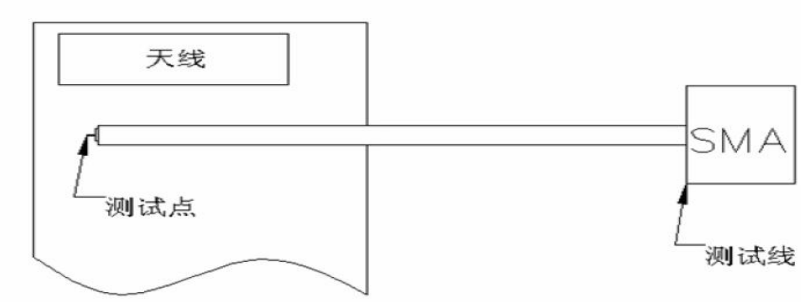


WIFI antennae

2. Passive testing

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

Method: This fixture is a 50 ohm coaxial cable, one end of which is connected to the test point at the back end of the matching circuit of the mobile phone motherboard (the front section of the RF test hole), and the other section is connected to the SMA connector. The details are as follows

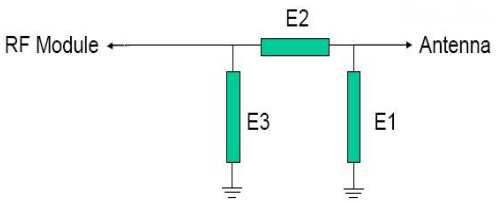


The following table is a test of the performance of the HT-W01-WIFI production antenna：

HT-W01-WIFI antenna				
	frequency (MHz)	VSWR	frequency (MHz)	VSWR
frequency band	transmitting terminal		receiving end	
2.4G WIFI	2400-2550	≤3.0	2400-2550	≤3.0

3.building-out circuit

- Antenna (match unchanged)
-



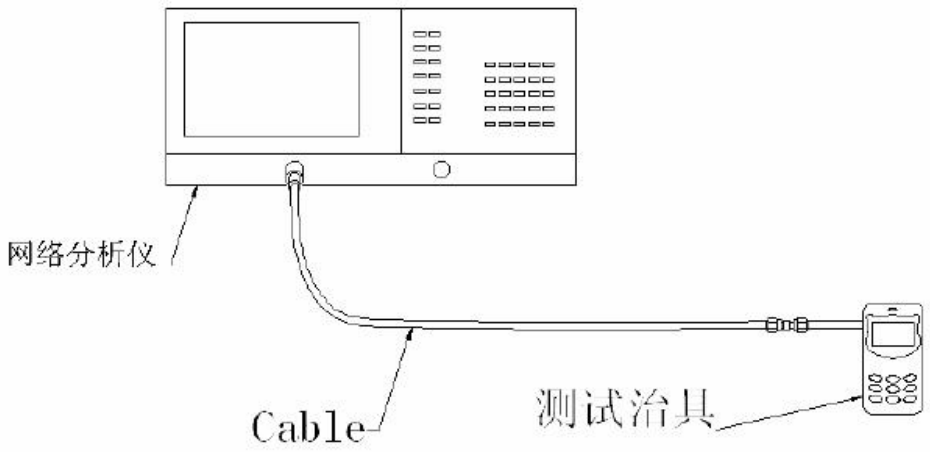
Element	Matched value
E1(0402)	
E2(0402)	0 Ohm
E3(0402)	

4. S11 test

4.1 S11 Test Method Description Specifications

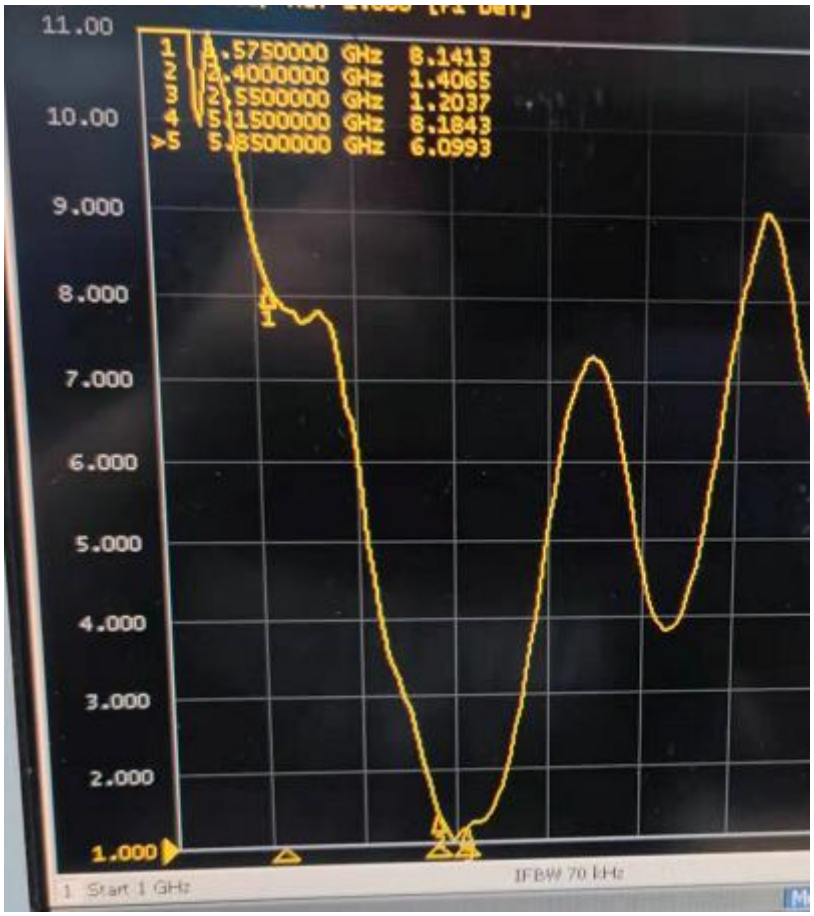
The VSWR test device is connected successively: E5071B network analyzer →50 ohm coaxial Cable→120mm long copper pipe → test fixture.

Test fixture processing: From the antenna 50 ohm test point on the PCB of the mobile phone with a hard cable to lead out the SMA-J connector, connected with the copper tube with a choke, and then connected to other devices in turn.



测试示意图

S11 Passive Standing Wave Pattern

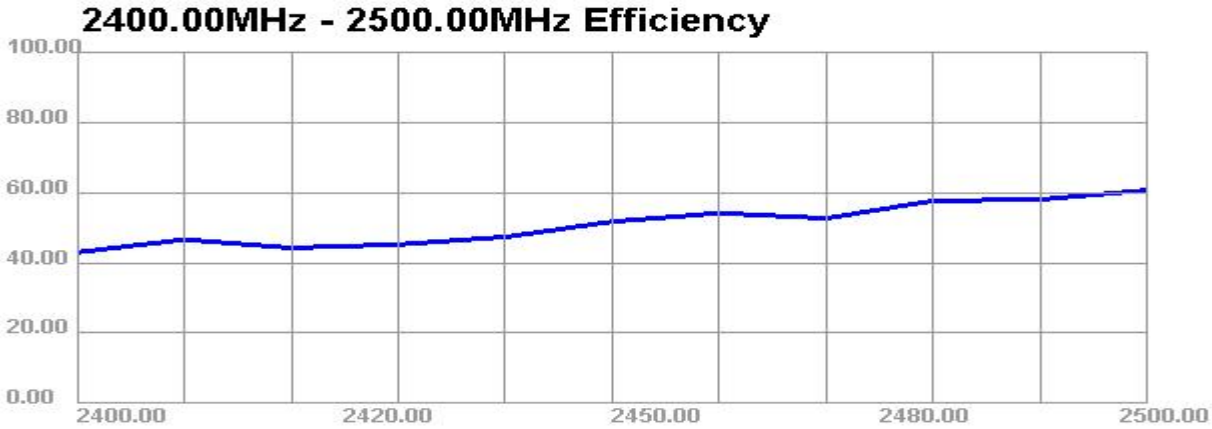


2.4 Efficiency Gain

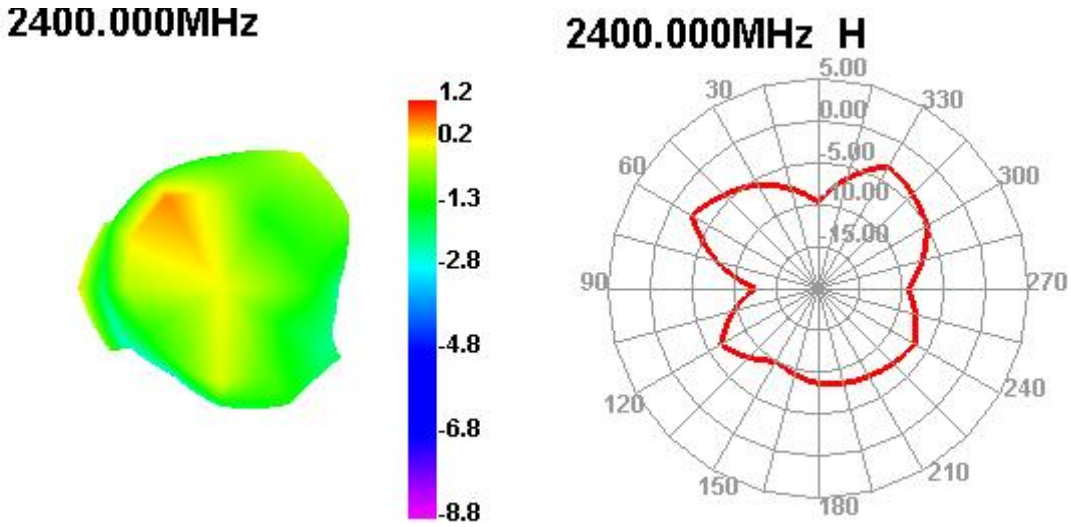
2.4G-WiFi		
Freq	Effi	Gain
(MHz)	(%)	(DBi)
2400	31.05	042
2420	32.76	0.51
2460	34.62	0.62
2480	35.6	0.81

2500	37.55	1.02

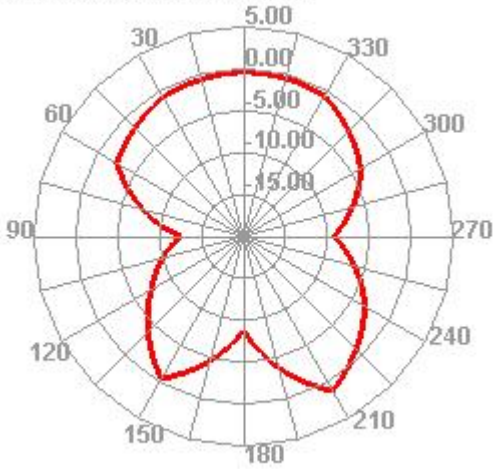
2.4 Antenna Efficiency:



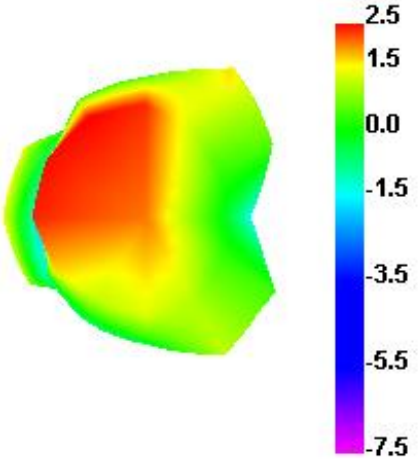
2.4 Antenna Pattern:



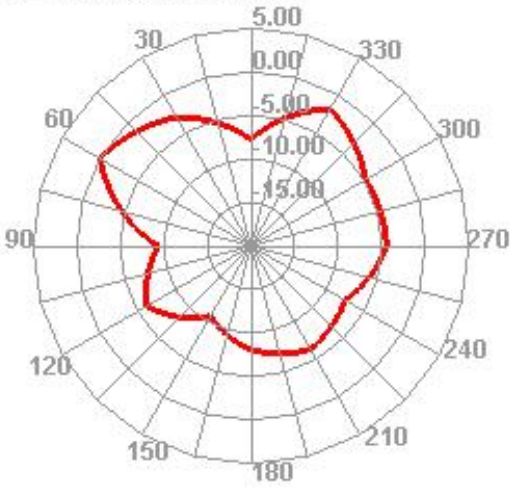
2400.000MHz E2



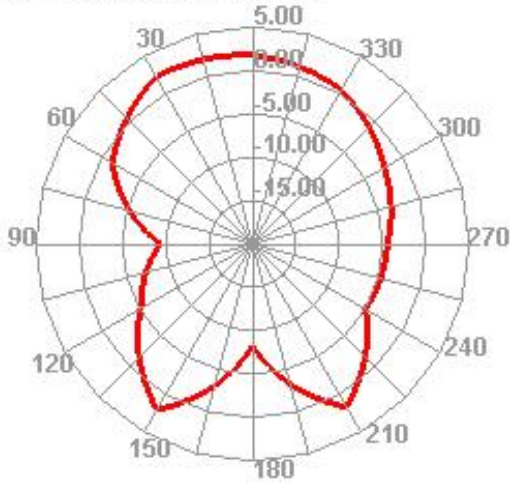
2500.000MHz



2500.000MHz H

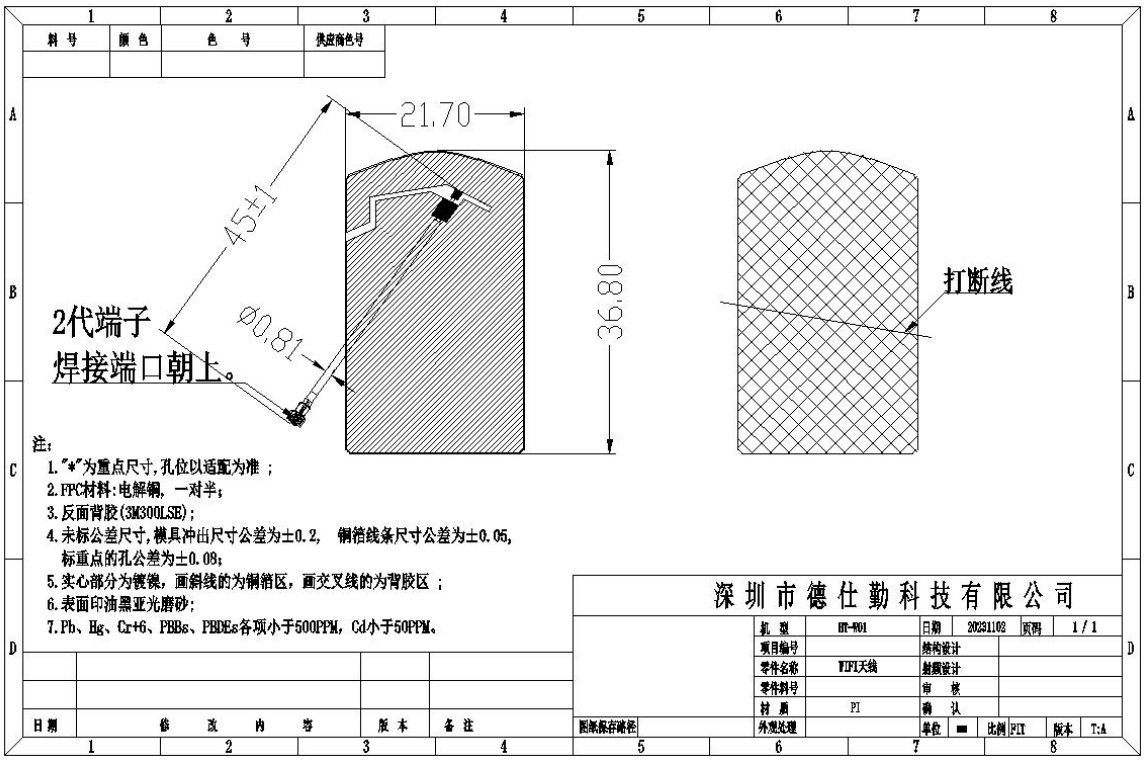


2500.000MHz E2



- The above tests meet the design requirements and the data is superior

5：Structural Drawings



深圳市德仕勤科技有限公司
Dosking MicroElectronics Co.,Ltd
地址：深圳市南山区西丽大学城民企科技园 2 栋（港鸿基大厦）西座 403
TEL:0755-88602767 FAX:0755-82793883