
深圳泓德致新科技有限公司

Shenzhen hongdezhi new technology co., ltd
acknowledgment

contents

contents	1
1. PROJECT INFORMATION AND ELECTRICAL SPECIFICATION	2
1-1 Project picture	2
1-2 Frequency Band:	2
1-3 Impedance matching	2
2.VSWR	2
2-1 Measuring Method:	2
2-2 S11 parameter values	2
3. EFFICIENCY AND GAIN	3
3-1 Efficiency/Peak Gain- WIFI	3
4. THE PRODUCTION INDEX	4
5.STRUCTURAL DRAWINGS	5

Physical map corresponding to antenna model HDZX-J2066 black wire length
120mm generation terminal 2.4G WIFI antenna



1. Project information and Electrical Specification

Those specifications were specially defined for WIFI/BT model, and all characteristics were measured under the model's handset testing jig .

1-1 Project picture

1-2 Frequency Band:

Frequency Band	MHz
WiFi/BT	2400-2500
Gain	1.5dBi
天线 cable loss	0.5dbm

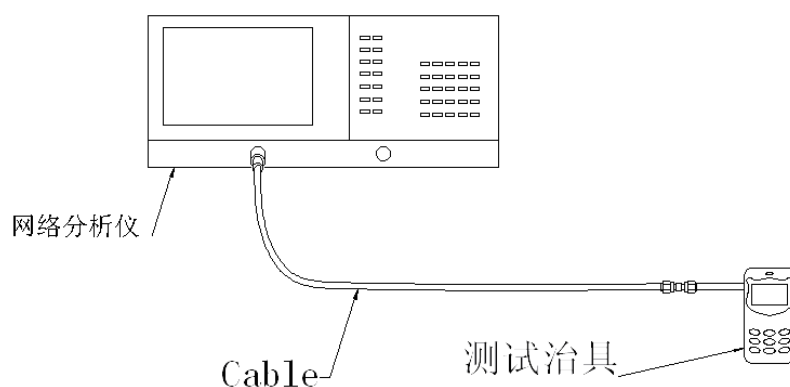
1-3 Impedance matching

2.VSWR

2-1 Measuring Method:

1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,
2. Keeping this jig away from metal at least 20cm.

The test schematic diagram is as follows:



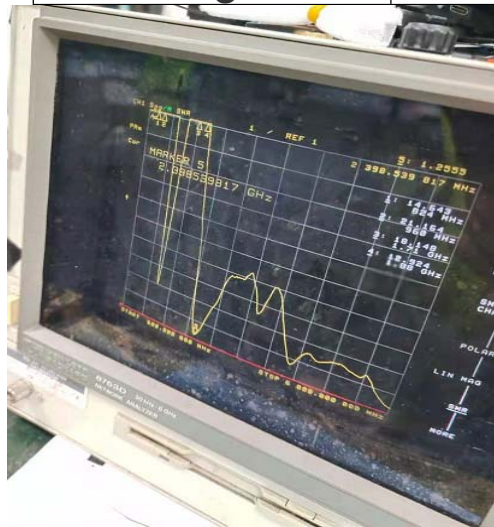
2-2 S11 parameter values

频率 (MHZ)	2400	2500
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standing wave

1.3

1.4



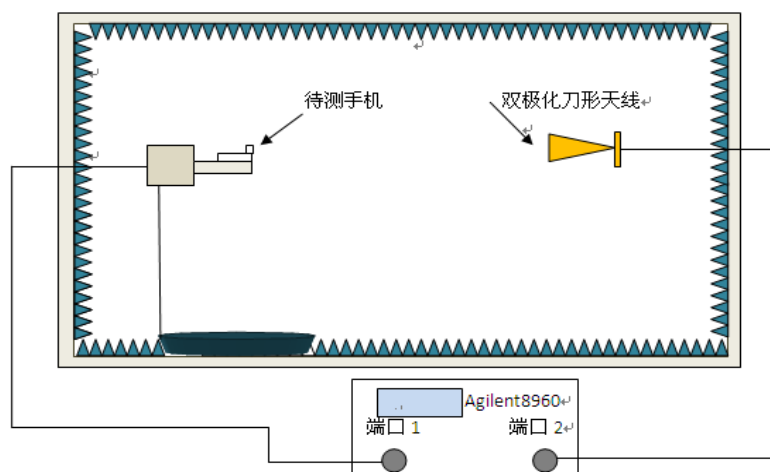
2. Efficiency and Gain

3. *measuring and test instruments:

Microwave darkroom, Agilent network analyzer, Agilent spectrum analyzer, 8960 comprehensive tester, standard antenna.

*test method:

Equipment is fixed at the center of turntable with H plane, which is on the same horizontal line with the center of horn



antenna.

4. The production index

When the antenna is mass-produced, the standing wave ratio is used as the mass-production test standard. According to the differences of the project itself, the following standards are given:

frequency		Mass production standard
WIFI /BT(2400-2500MHZ)		VSWR (量产产品) < VSWR(设计样品)+0.5

Frequency (MHz)	Return Loss (dB)	dBi
2400	-14.19	1.50
2450	-15.46	1.4
2500	-15.56	1.45

Vertical: 2400 MHz 2450 MHz 2500 MHz
Gain: (dBi)
Max: 1.5

