

深圳市肯特新工业技术有限公司

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承認書

SPECIFICATION FOR APPROVAL

客 戶： 欧立科技

Customer

项目名： DR6500

Project

品 名： WIFI 天线

Description

料 號： W4107A-F8L2B-080-U

Part Number

日 期： 2025 年 12 月 29 日

Date Year Month Day

承認人簽章

制定 Responsible	审核 Approve	客户确认 Confirm
	Contact: 18688745790 TEL: +86-755-23025852	

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±1 X.X=±0.1 X.XX=±0.01

ANGLES=± HOLE DIA=±

SCALE :

UNIT : mm

DRAWN BY : 张行星

CHECKED BY : 王浩

DESIGNED BY : 李谋月

APPROVED BY : 易珂湘

TITLE : W4107A-F8L2B-080-U Specification



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1. Electrical Specification :

Those specifications were specially defined for 欧立科技 DR6500 WIFI model, and all characteristics were measured under the model's handset testing jig .

1-1. Frequency Band:

Frequency Band	MHz
Wi-Fi	2400-2500

1-2. Impedance

50 ohm nominal

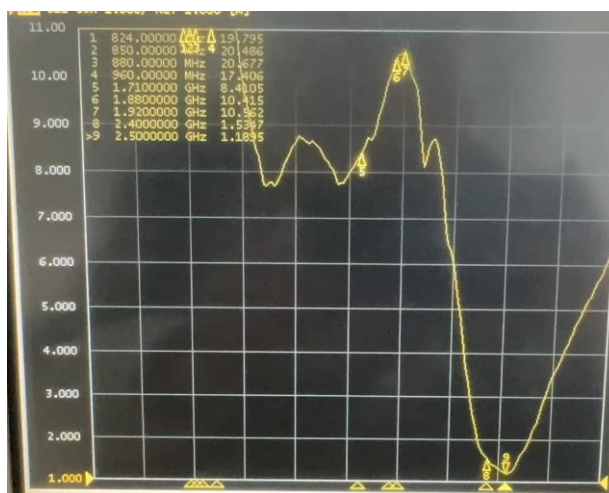
2. VSWR

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.

2-2 Measurement frequency points and VSWR value

Frequency (MHz)	2400	2500
VSWR	1.53	1.18



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3. Efficiency and Gain

- 量测仪器: 微波暗室, Agilent 网络分析仪, Agilent 频谱分析仪, 8960 综合测试仪, 标准天线。
- 微波暗室说明:
这是本公司设置在深圳的微波暗室, 本微波暗室是属于一套远场量测系统,暗室的大小为 5.0 米 x3.0 米 x3.0 米 , 静区尺寸(Quiet zone)大小为 15 厘米 x15 厘米 x15 厘米。

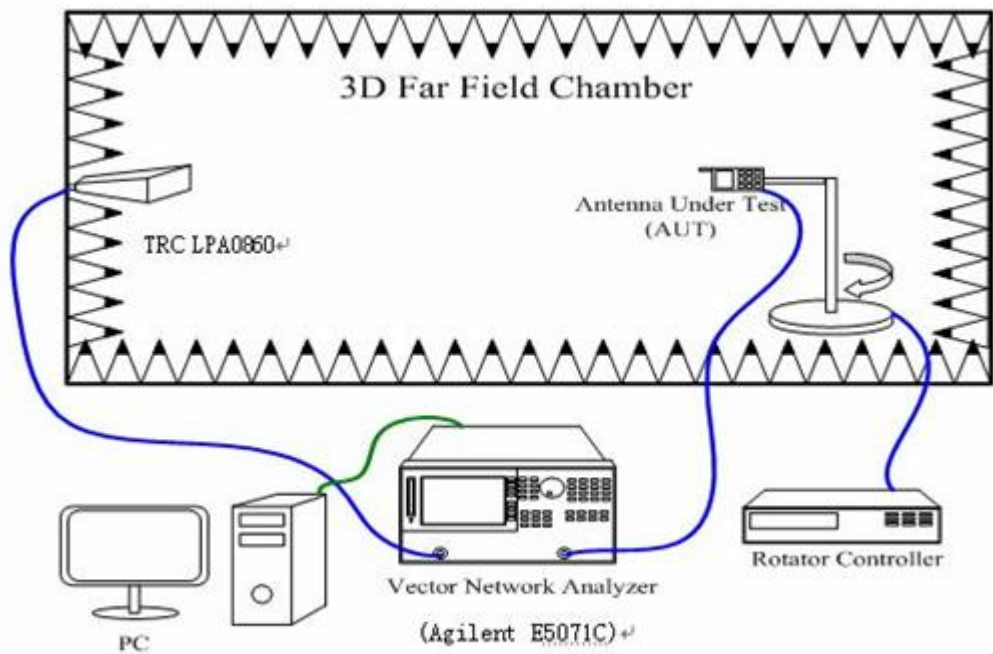


图. 1. 微波暗室内仪器设置 r.

图. 1 为微波暗室内的仪器设置及网络分析仪的联接图, 发射天线(0.8-6.0GHZ for Gain Calibration)到待测天线(AUT)的距离为 3.0 米, 待测天线放置在旋转平台上,藉由控制转台旋转的角度可对待测天线做概略性及较为准确的量测。

将待测天线放置于旋转台上,并测得其各个平面(ZY 平面及 ZX 平面)的 360 度场强数据。再将待测天线换置成标准偶极天线将其 360 度的场强数据测出,以作换算增益标准值,经由式 1 的换算即可获得待测天线的增益值及方向图。

3-1 Measuring Method

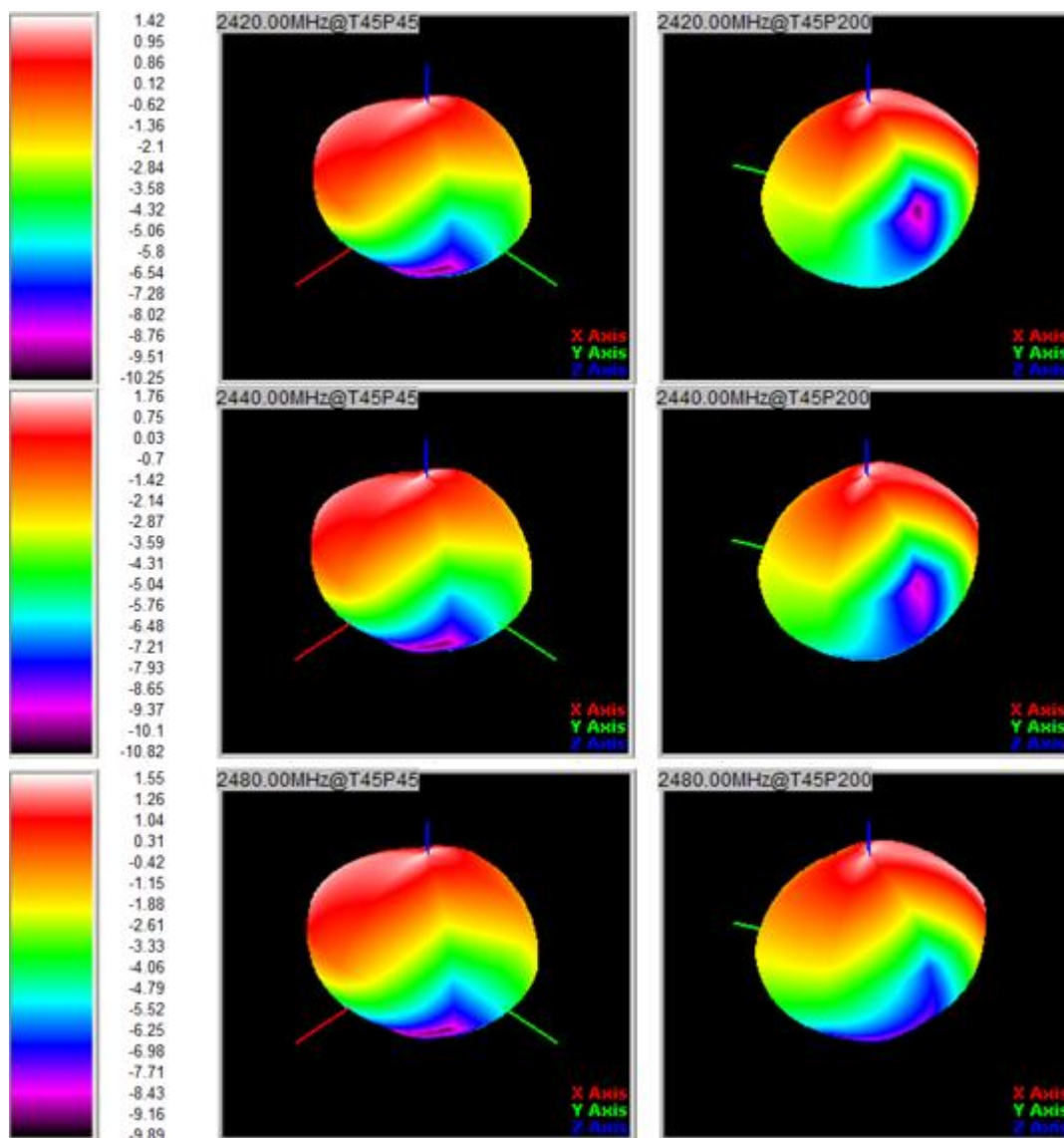
1. Using a low loss coaxial cable to link a standard handset jig,
2. Fixed this handset jig on chamber's rotator plane,
3. Linking jig into network analyzer port and using a probing horn antenna to collect data,
4. Using another standard gain horn antenna to calibrated those data.

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3-2 Efficiency and Gain Value

Frequency (MHz)	Efficiency (%)	Average GAIN (dB)	Peak GAIN (dBi)
2400	46.9%	-2.33	1.42
2450	47.2%	-2.25	1.76
2500	45.8%	-2.35	1.55

3-3 3D Pattern



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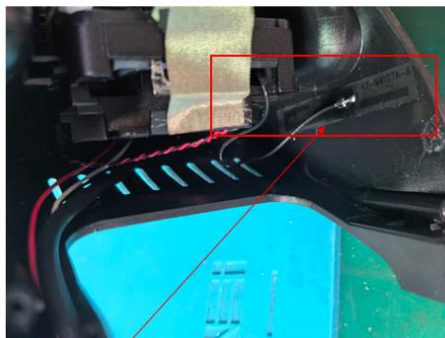
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4. Antenna mounting position and direction

Antenna position and direction

Antenna



天线贴装位置如图示

5. Test Result:

5.1 TRP & TIS

802.11b:11MBps 20M		802.11g:54MBps 20M		802.11n:11MCS7 20M	
Test Result	wifi 2.4G TRP	Test Result	wifi 2.4G TRP	Test Result	wifi 2.4G TRP
	5		5		5
Frequency(MHz)	2432	Frequency(MHz)	2432	Frequency(MHz)	2432
Txp Ave(dBm)	15.71	Txp Ave(dBm)	14.45	Txp Ave(dBm)	14.05
SenS Ave(dBm)	-77.14	SenS Ave(dBm)	-65.38	SenS Ave(dBm)	-60.88

6. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 6-1

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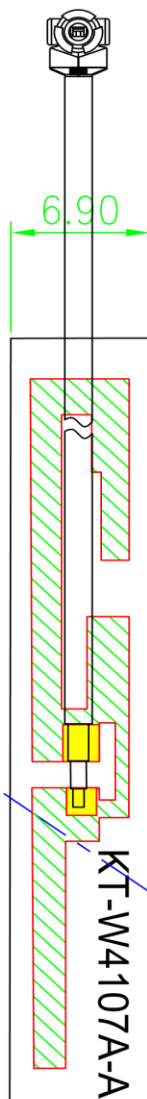
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41.32

背面离型纸断开线



天线焊接端

1.00±0.3

2.0±0.3

2.00±0.3

080±2

二代端子



技术要求:

- 1.绿色阴影部分为电路，黄色部分为漏焊接点走线部分；
- 2.表面黑油，基材采用PI，电解铜，天线总厚度为0.12±0.03mm（不含离型纸），背胶3M300L；
- 3.打*为重点尺寸公差±0.05；
- 4.所有材料符合环保ROHS标准。

DIM	TOL	DIM	TOL
X.	±0.3	X.	±5.0°
X.X	±0.2	X.X	±4.0°
X.XX	±0.05	X.XX	±3.0°
X.XXX		X.XXX	±2.0°

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DRAW NO. DATE DRAW NAME: KT-W4107A-FBT-A

DESIGN: LHM

25/11/18

FILE:

QTY:

SCALE: 1:1

REV. A

SCALE N/A

P/N NO:

DRAWING NO:

UNIT: mm

SHEET: N/A

APPROVED:

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