

上海移远通讯技术股份有限公司

Quectel Wireless Solutions Co., Ltd.

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承认书

Specification For Approval

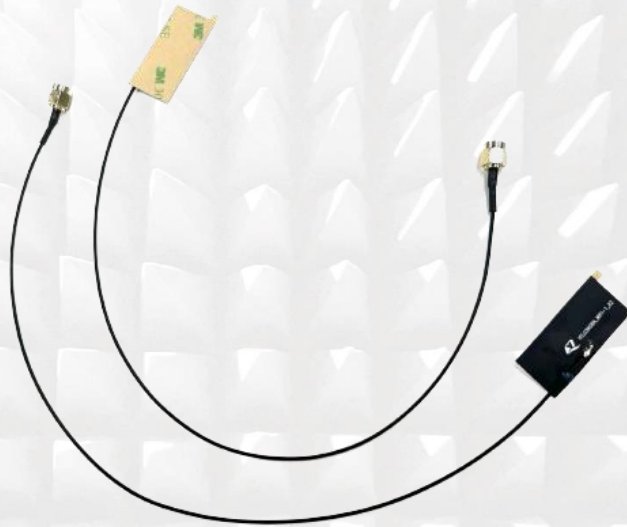
客户名称/Customer Name: 深圳市富兰瓦时技术有限公司

物料名称 / Material Name: 双频 WIFI PCB 天线

客户料号 / Customer PN: 22010012

移远 OC / Quectel OC: YFL03A0BA

	Manufacturer Signature	Customer Signature
Checked By		
Approver By		
Date		



移远天线规格书

产品料号: YFL03A0BA

版本: 1.0

日期: 2024-03-08

产品名称: WIFI 天线

主要特点:

频率范围: 2400-2500 MHz, 5150-5850 MHz

尺寸: 40.0 * 18.50 * 0.35 mm

效率: 最高 63.1%

符合RoHS 环保标准

Product name: WIFI antenna Main features:

Frequency range: 2400-2500 MHz, 5150-5850 MHz

Size: 40.0 * 18.50 * 0.35 mm

Efficiency: up to 63.1%

Complies with RoHS environmental standards

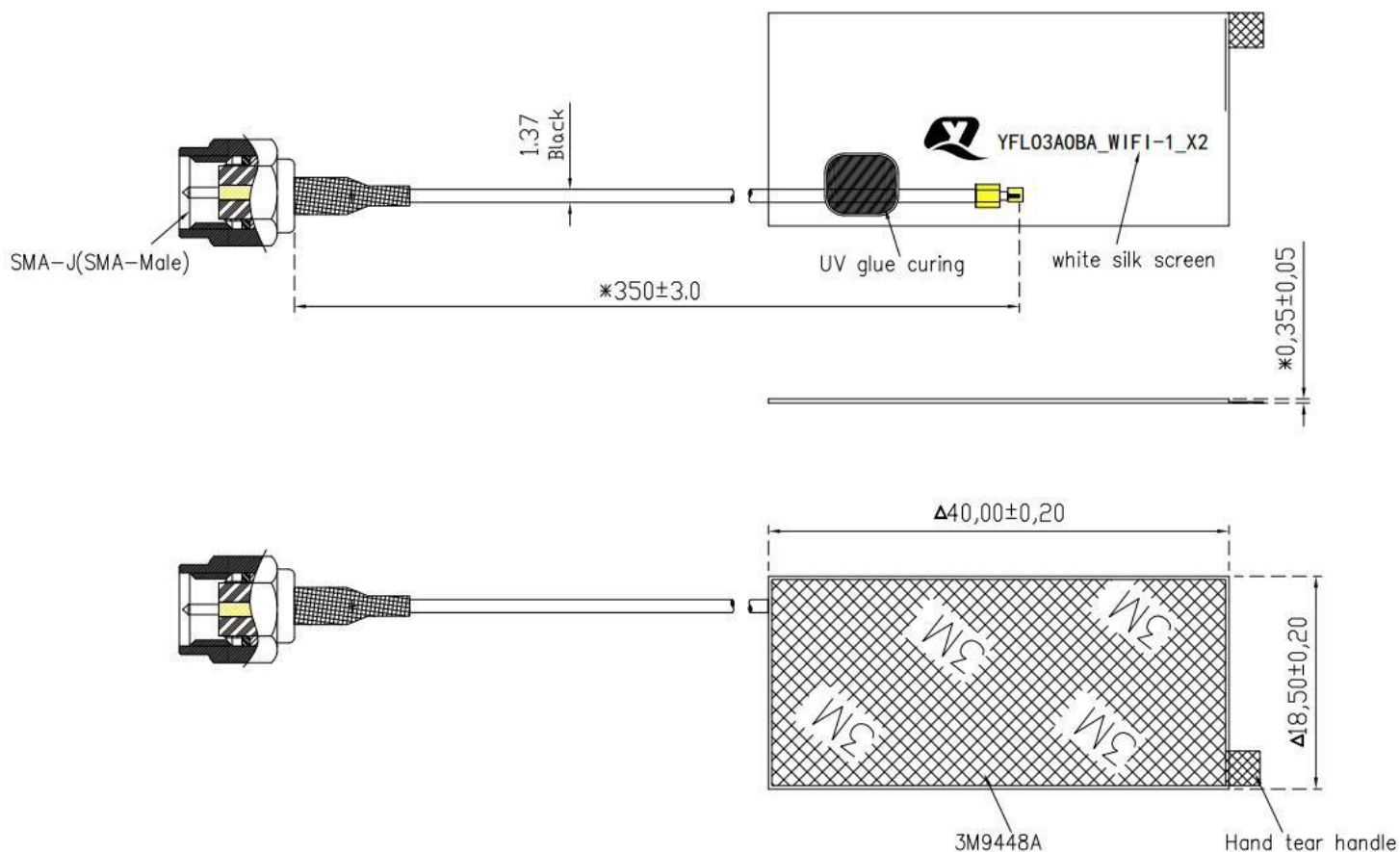
1 Specifications

1.1. Electrical performance

Electrical performance	
Frequency range	2400-2500MHz, 5150-5850MHz
impedance	50 Ω
Polarization	线极化
Radiation pattern	全向
voltage standing wave ratio	≤ 1.9
Peak Gain	≤ 5.9 dBi

1.1. 机械, 环境特性

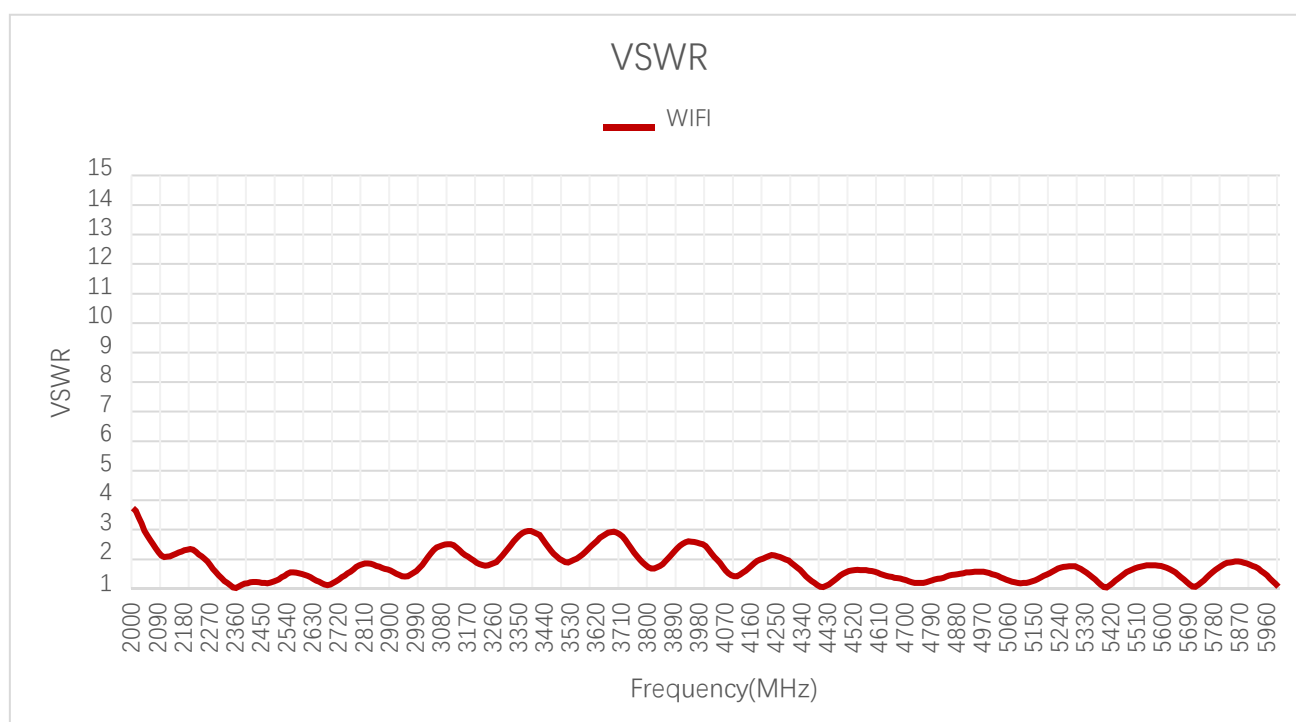
机械	
天线尺寸 Antenna size	40.0 *18.50 * 0.35 mm
材料 & 颜色 Materials & Colors	FR4 & black
电缆类型 & 颜色 & 长度 Cable Type & Color & Length	$\Phi 1.37$ & black& 350 mm
连接器类型 Connector Type	SMA-J(SMA-Male)
重量 重量	5.1g
安装类型 Installation Type	Adhesive Paste
环境	
工作温度 Operating temperature	-40 °C to +85 °C
储存温度 Storage temperature	-40 °C to +85 °C
符合环保标准 Comply with environmental standards	RoHS



3 VSWR rating

3.1. S 参数测试

3.1.1. 电压驻波比

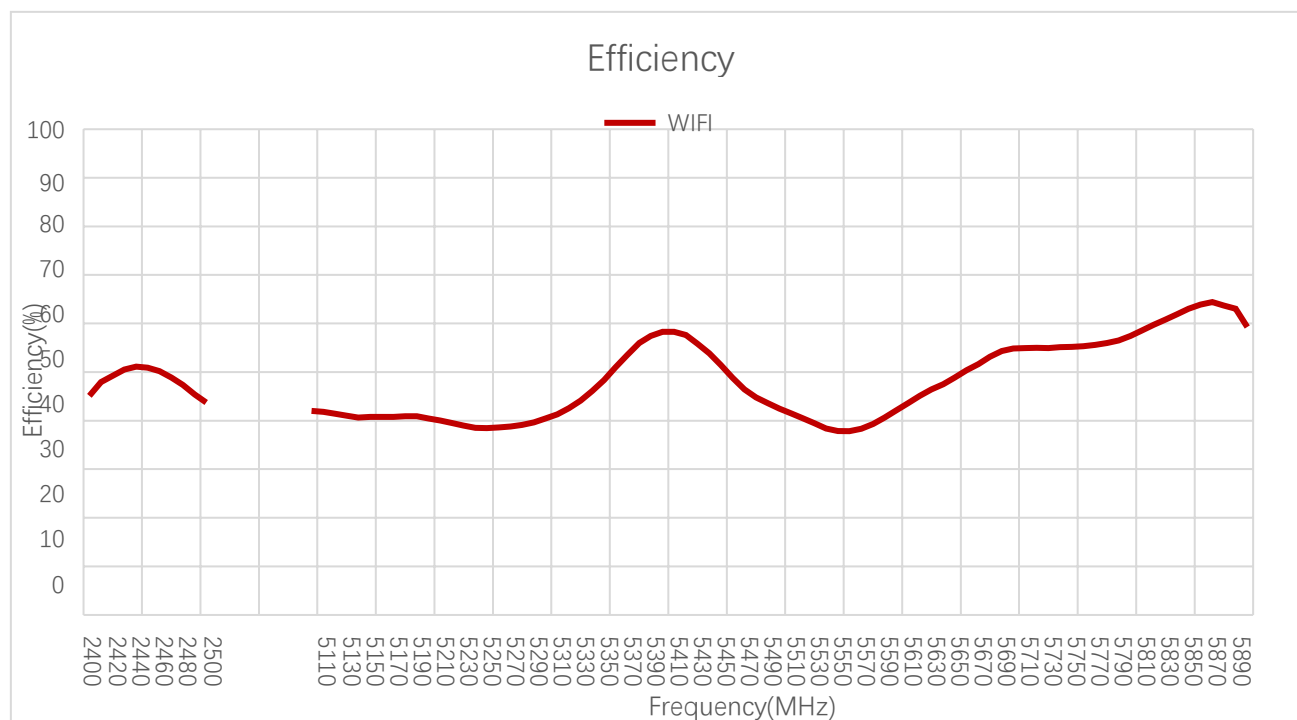


VSWR - WIFI

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
VSWR	1.2	1.2	1.3	1.3	1.7	1.9	-	-	-	-

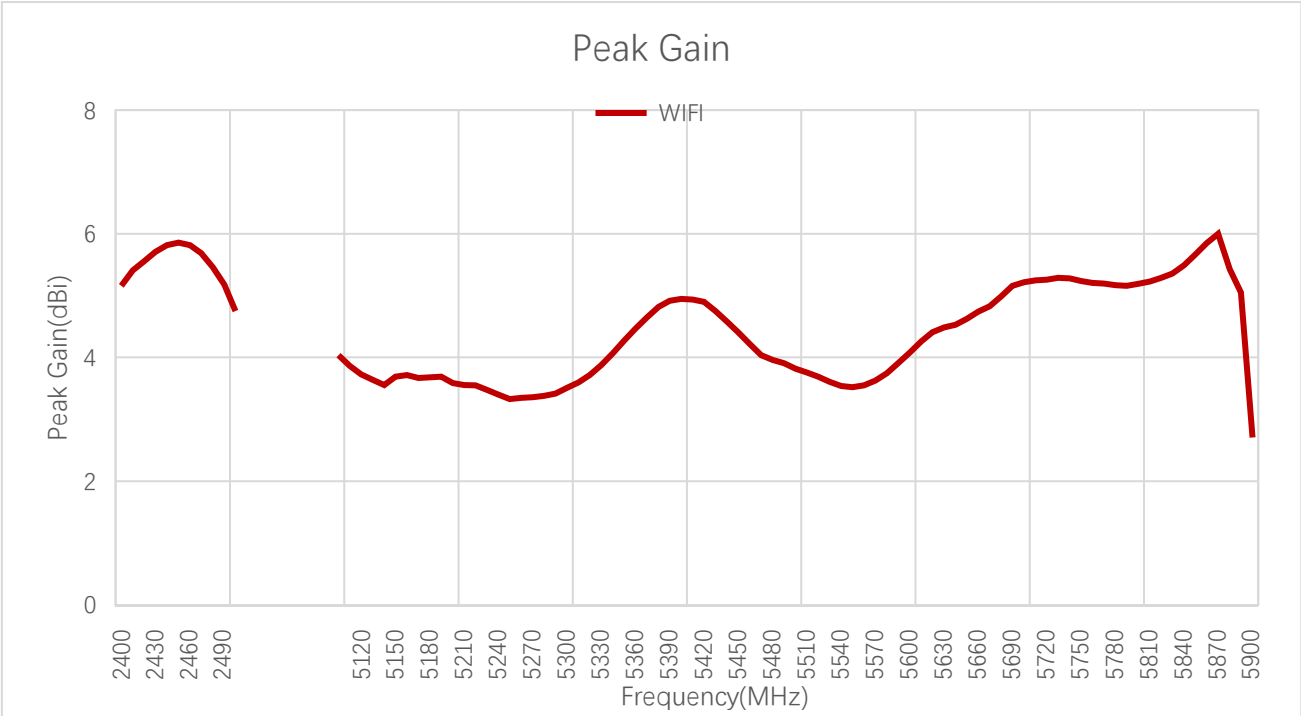
3.2. Radiation performance test

3.2.1.



Efficiency (%) – WIFI										
Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Efficiency (%)	45.1	51.0	43.7	40.8	42.5	63.1	-	-	-	-

3.2.2. 峰值增益peak gain

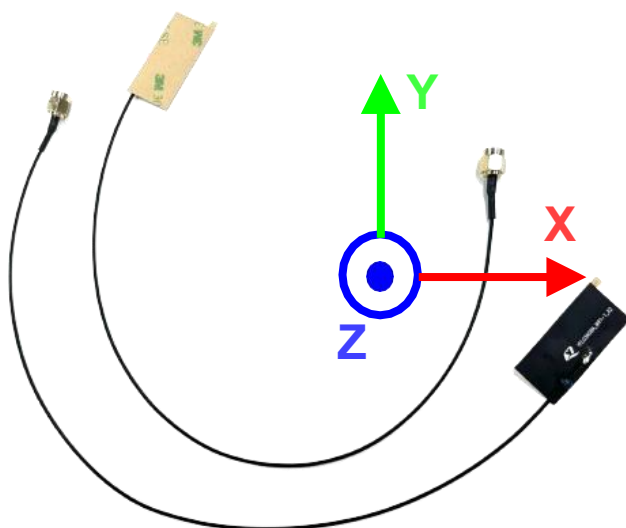


Peak Gain (dB) – WIFI 1

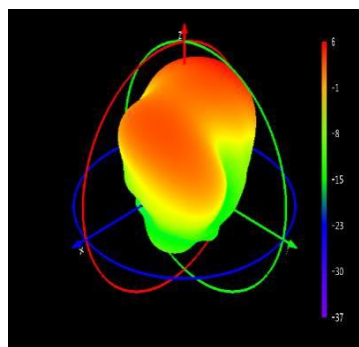
Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Peak Gain (dB)	5.2	5.9	4.8	3.7	3.8	5.7	-	-	-	-

3.2.3. 2D Radiation pattern

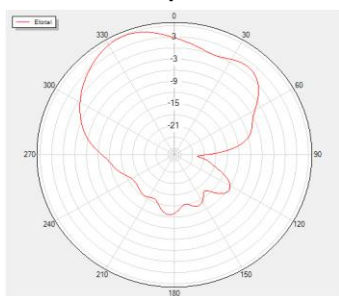
- 测试状态: 自由空间测试
- 测试实验室: SZ-S-1



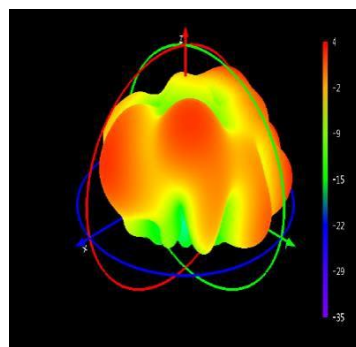
2450MHz



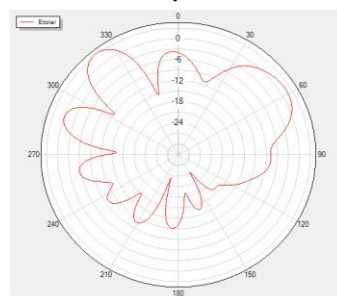
Phi=0 Freq=2450MHz



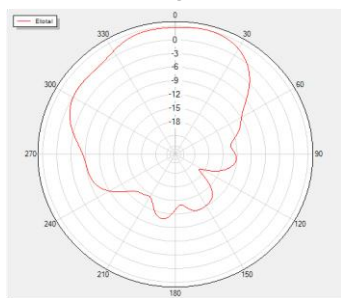
5500MHz



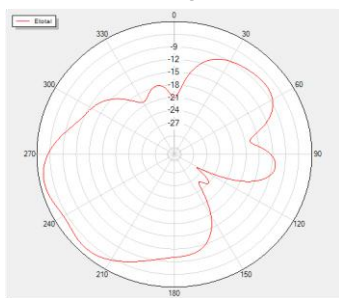
Phi=0 Freq=5500MHz



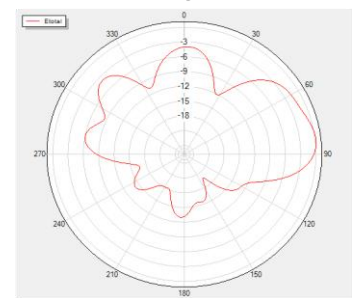
Phi=90 Freq=2450MHz



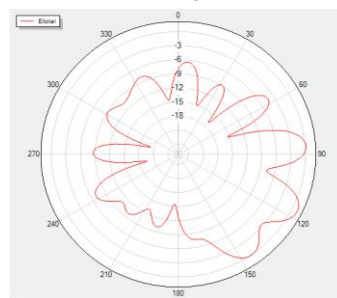
Theta=90 Freq=2450MHz



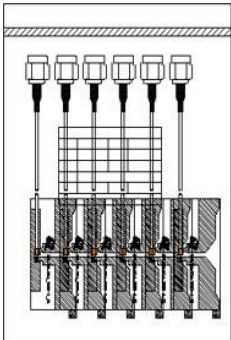
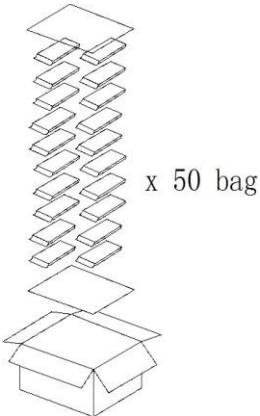
Phi=90 Freq=5500MHz



Theta=90 Freq=5500MHz



4 包装

步骤	包装图片/2D 图片	描述
1		产品图纸
2		50 根天线产品装在一个大 PE 袋中; 50 根天线/每个大 PE 袋
3		50 个 PE 袋/每箱 (2500 根天线/每箱) 预估数量 不满箱的产品将用合适的纸箱包装_ <u>纸箱尺寸: L*W*H=325*325*200mm</u>

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