



Shenzhen Daze Wireless Technology Co., Ltd

深圳市大泽无线技术有限公司

specification

{产品规格书}

规格描述

Specification description

客户名称 (Customer Name)		
客户产品编码 (Customer product code)		
产品名称 (product name)	WIFI Antenna	
产品型号 (product model)	LD-WIFI-0007	
产品编码 (product code)	10508002	
产品规格 (product standard)	WIFI antenna (black suction cup total height 149mm)	
拟制日期 (date)	2024-12-26	
版 本 (edition)	V2.0	
我司栏 Division column		
拟制 prepared by	审核 audit	批准 ratify
客户栏 Client field		
确认 notarize	审核 audit	批准 ratify

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变更履历

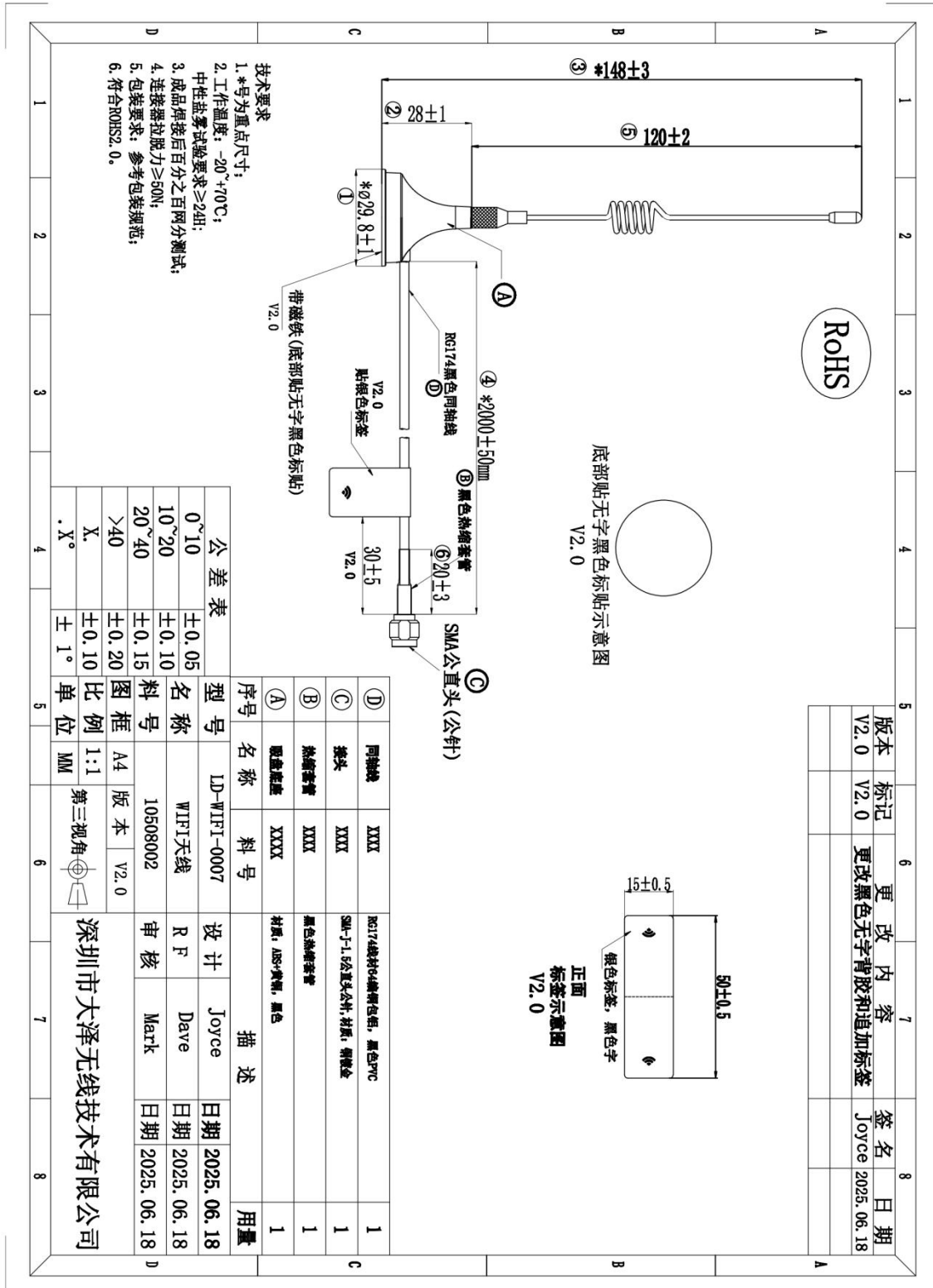
change resume

版本 edition	日期 edition	变更描述 Design change description	备注 remark
1.0	2025.5.21	初版 first edition	
2.0	2025.6.26	增加标签及更换底座标贴 Add labels and replace base labels	

4 • 产品图片 product picture



5 • 工程图 Engineering drawings



6 • 产品规格 Product Specifications

无源电性能指标 Passive Electrical Specifications	
频率范围 Frequency Range (MHz)	2400-2500MHz
输入阻抗 Input Impedence (Ω)	50 Ω
电压驻波比 VSWR	≤ 3.0
增益 Gain (dBi)	$\leq 2\text{dBi}$
极化形式 Polarization Type	线性 Linear
机械指标 Mechanical Specifications	
天线尺寸 Antenna Size (mm)	$\phi 29.8 \times 148$
材质 Material	ABS
馈线长度 Cable Length (mm)	RG174 linear, $L=2000 \pm 50\text{mm}$
连接器型号 Connect Type	SMA 公头公针
工作温度 Working Temperature ($^{\circ}\text{C}$)	$-20 \sim +70^{\circ}\text{C}$
颜色 Radome Color	黑色 Black
安装方式 Mounting Type	磁吸 Magnetic

7 • 测试环境 Test environment

网络分析仪：安捷伦 5071B

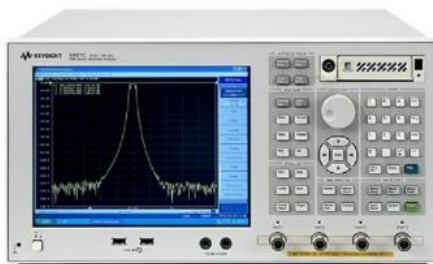
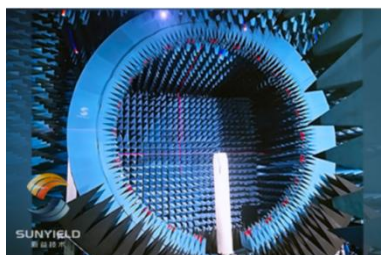
Network Analyzer: Agilent 5071 B

综合测试仪：R&SCMW500 (2/3/4G/NB-IoT/W/BT) ; AnritsuMT80000A

Comprehensive tester: R&S CMW500 (2/3/4G/NB-IoT/WIFI/BT); Anritsu 80000A

新益 SY-24L: 5G SISO/MIMO, 400 MHz - 8.5 GHz

Xin Yi SY-24L Chamber 5G (FR1) SISO/MIMO, 400 MHz - 8.5 GHz

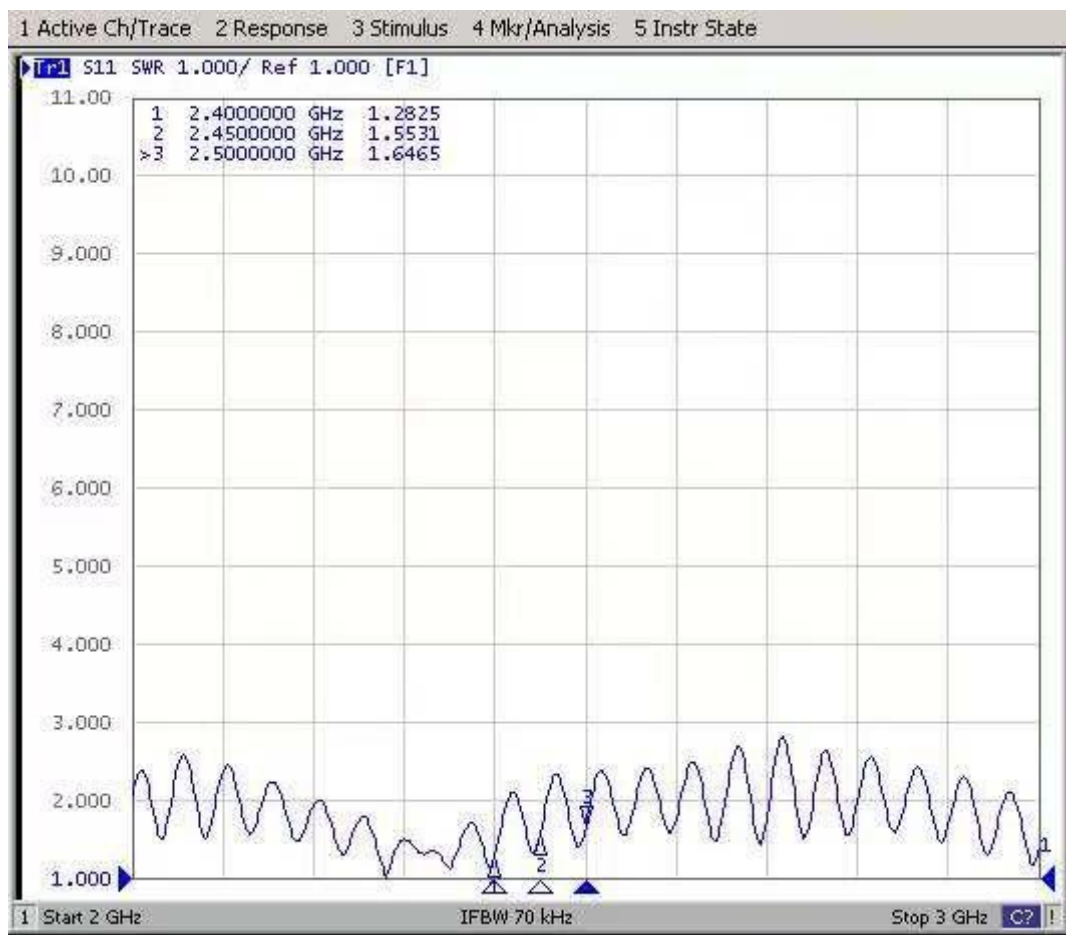


8 • 环境可靠性测试/Environmental Performance

环境可靠性测试/Environmental Performance		
测试项目 Test Description	测试程序和条件 Test Procedures & Condition	测试要求 Requirements
盐雾测试 Salt Spray Test	测试条件 (Decay Test Conditions): 35℃±2℃的密闭环境中, 湿度 >70%, PH 值在 6.5-7.2 范围内, 用 5%±1%的 NaCl 溶液 持续时间 (In a 35℃± 2℃ airtight environment, humidity> 70%, PH in the range 6.5-7.2, with 5% ± 1% NaCl solution Duration) :24 小时 Duration : 24 hours	1. 外观良好 (No evidence of damage) 2. 电气性能符合产品规格要求 (Electrical performance in line with product specifications)
高温试验 High temperature test	测试条件 (Decay Test Conditions): 温度:70℃ (Temperature:70℃) 持续时间:24 小时 Duration : 24 hours	1. 外观良好 (No evidence of damage) 2. 电气性能符合产品规格要求 (Electrical performance in line with product specifications)
低温试验 Low Temperature test	测试条件 (Decay Test Conditions): 温度: -20 ± 2℃ (Temperature:-20 ± 2℃) 持续时间:24 小时 Duration : 24 hours	1. 外观良好 (No evidence of damage) 2. 电气性能符合产品规格要求 (Electrical performance in line with product specifications)

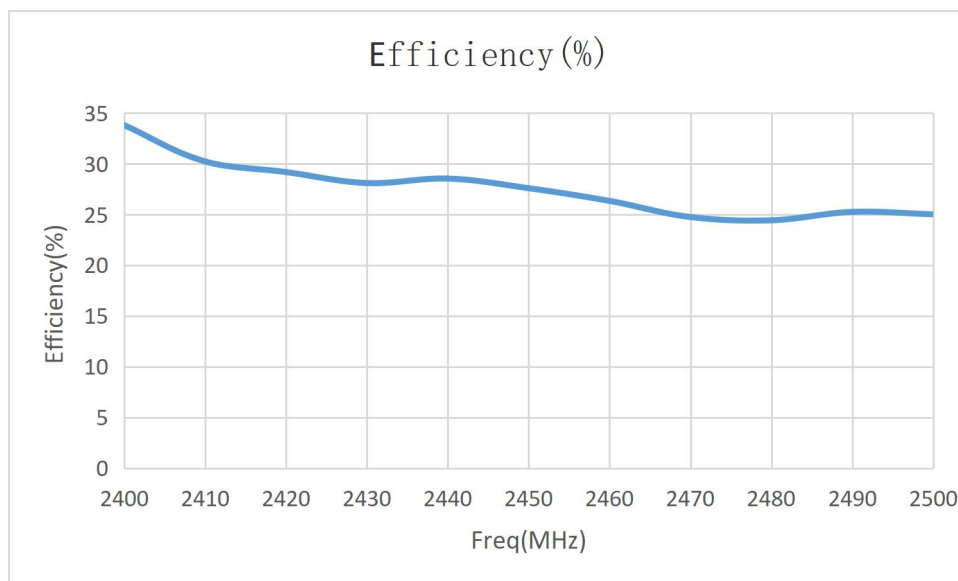
9 • 测试数据 Test data

9.1 驻波比图 VSWR



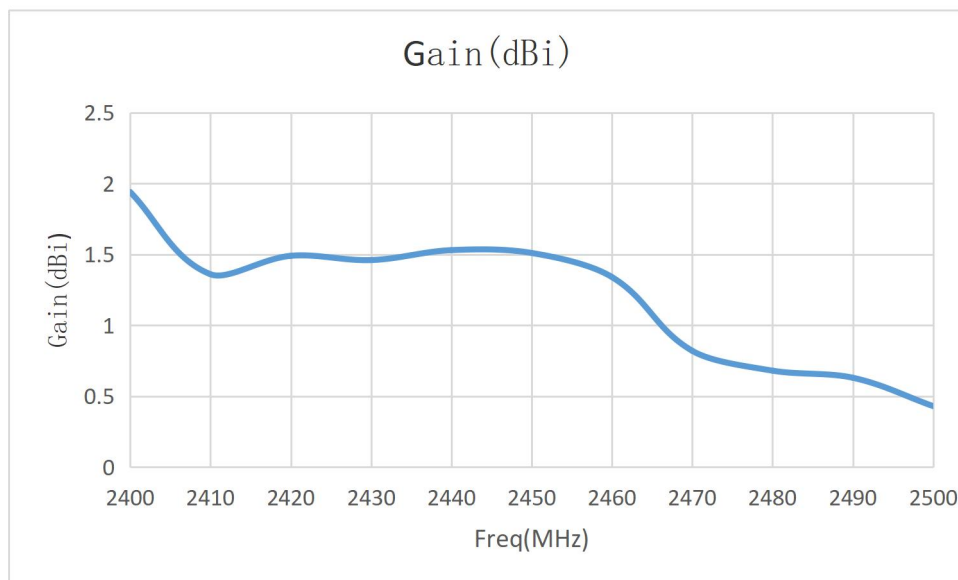
Frequency (MHz)	2400	2450	2500
VSWR	1.28	1.55	1.64

9.2 效率 Efficiency



Frequency (MHz)	2400	2450	2500
Efficiency (%)	33.81	27.59	25.02

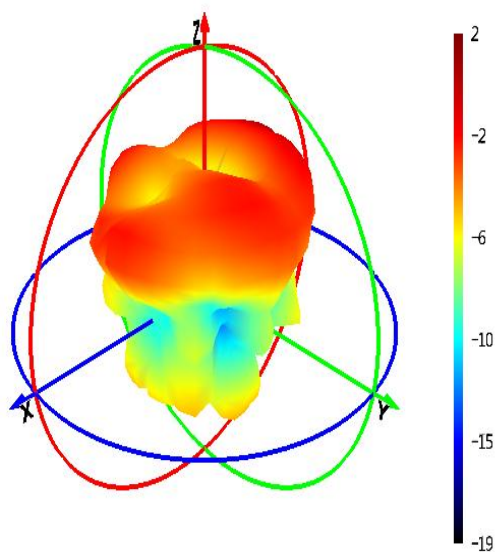
9.3 增益 Gain



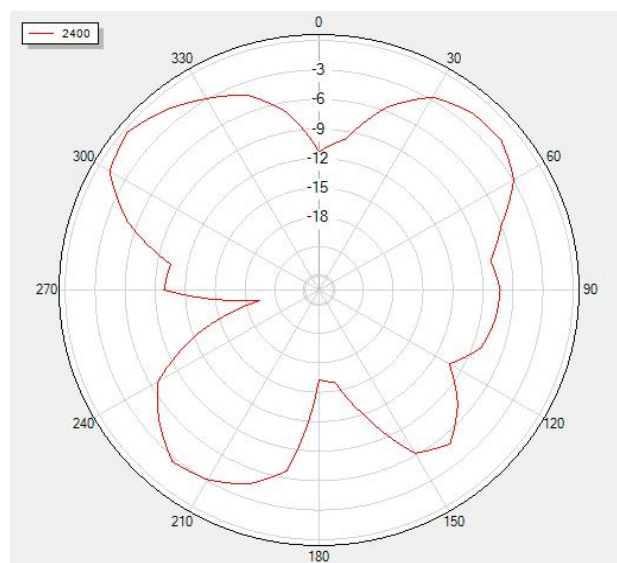
Frequency (MHz)	2400	2450	2500
Gain	1.94	1.51	0.43

9.4 方向辐射图 Radiation Patterns

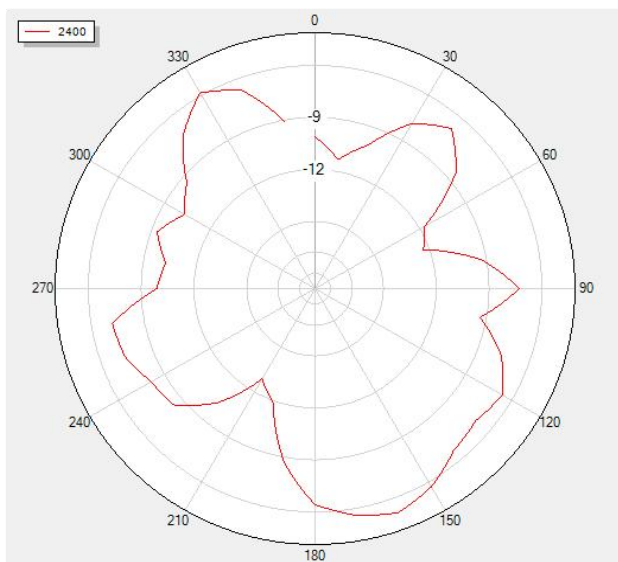
2400MHz



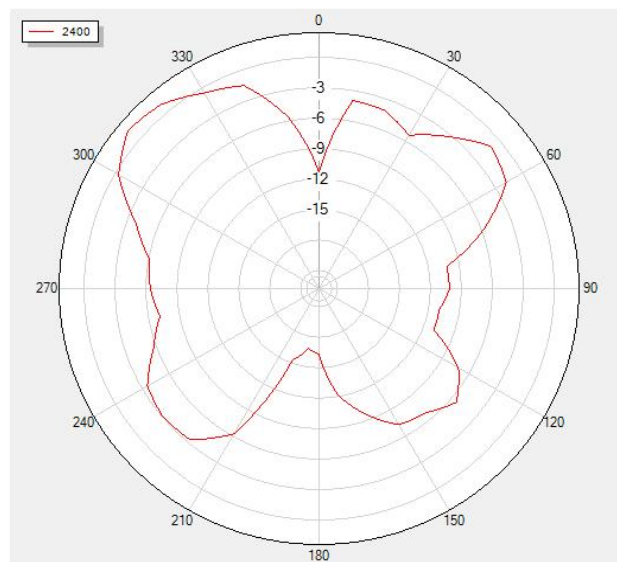
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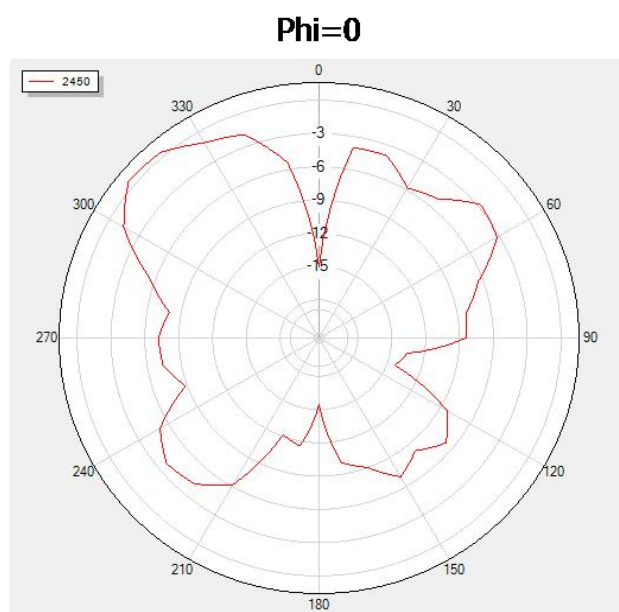
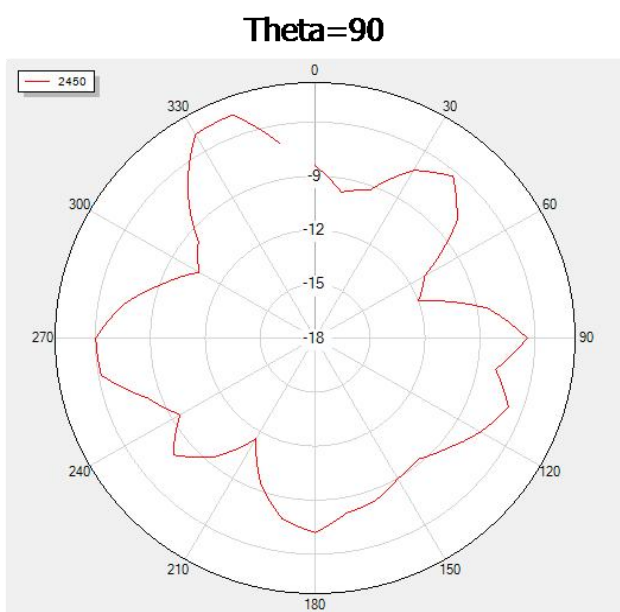
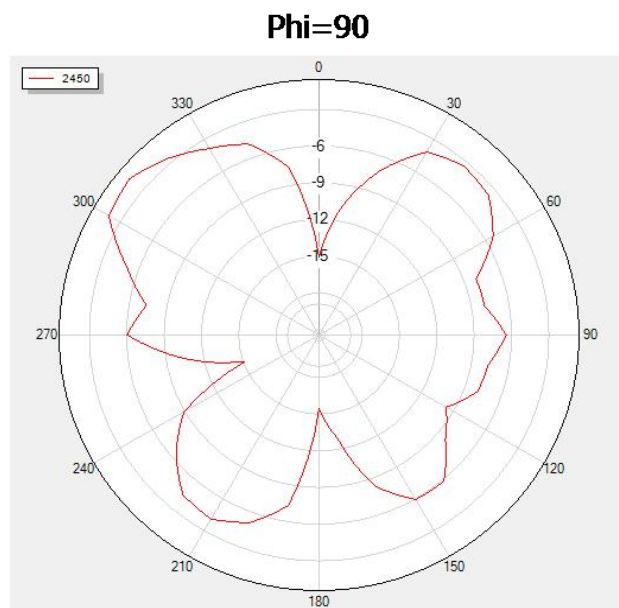
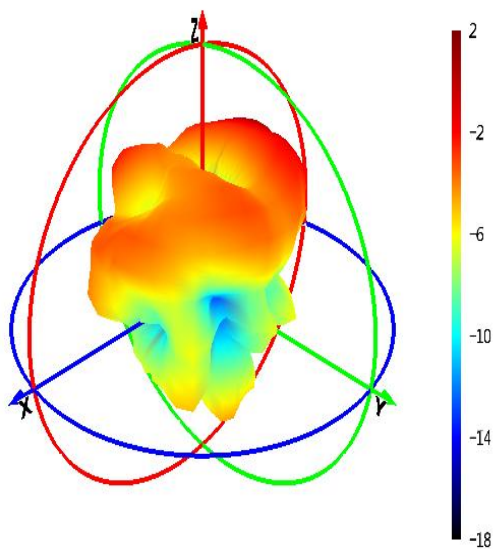


Theta=90

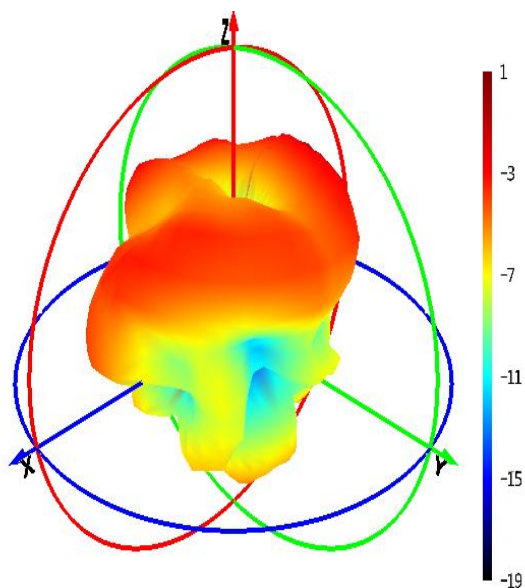


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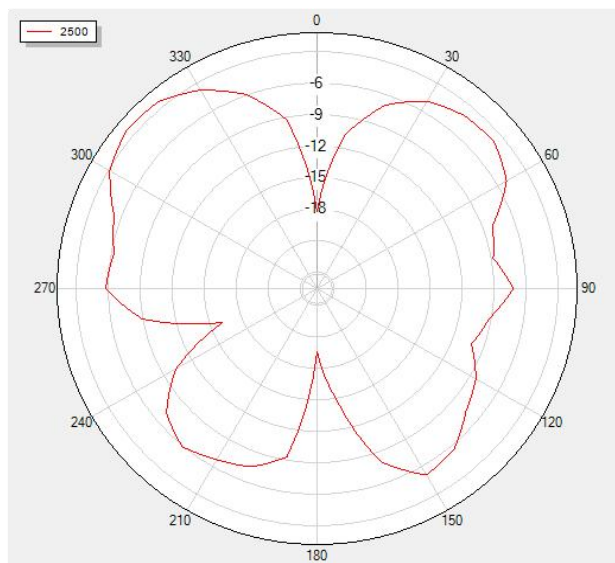




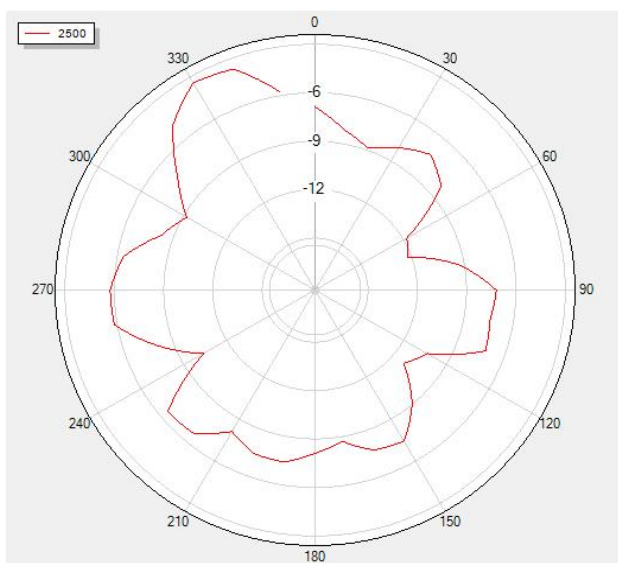
2500MHz



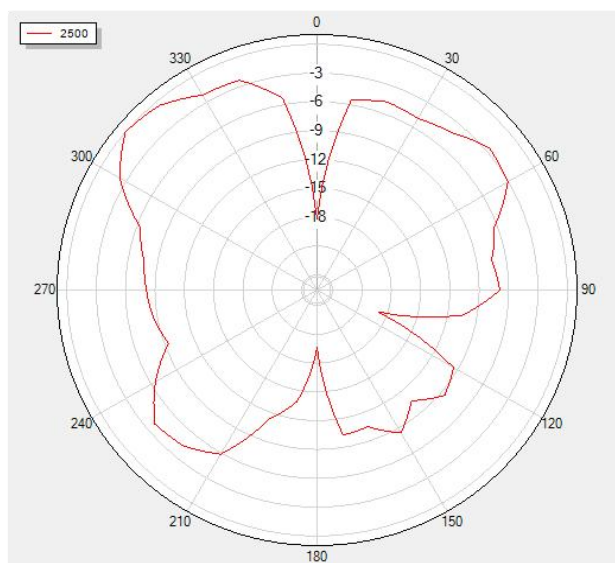
Phi=90



Theta=90



Phi=0



Testers:Yang Jing

Testing time: December 26, 2024

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