



深圳市楚风通讯技术有限公司

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产品规格书

SPECIFICATION FOR APPROVAL

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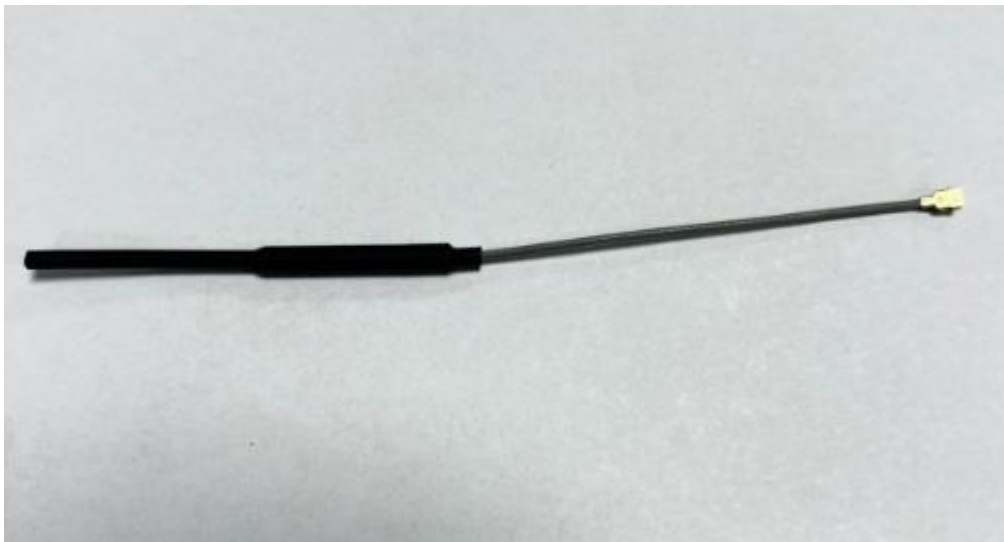
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1 、产品说明 Product Description

客户名:	
整机类型:	铜管天线
天线频段:	2400MHZ-2500MHZ
天线形式:	内置天线
极化方式:	垂直
馈脚数量:	/
硬件版本:	V1

2 、产品图片 Product Picture



3 、产品规格 Product Specifications

无源电性能指标 Passive Electrical Specifications	
频率范围 Frequency Range (MHz)	2400-2500
输入阻抗 Input Impedence (Ω)	50
电压驻波比 VSWR	<2
增益 GAIN(dBi)	4.04

机械指标 Mechanical Specifications	
工作温度 Working Temperature ($^{\circ}$ C)	-30—+80
颜色 Line color	灰色
天线尺寸 Antenna size (MM)	120
接口型号 Interface type	IPEX1

4 、测试环境 Test environment

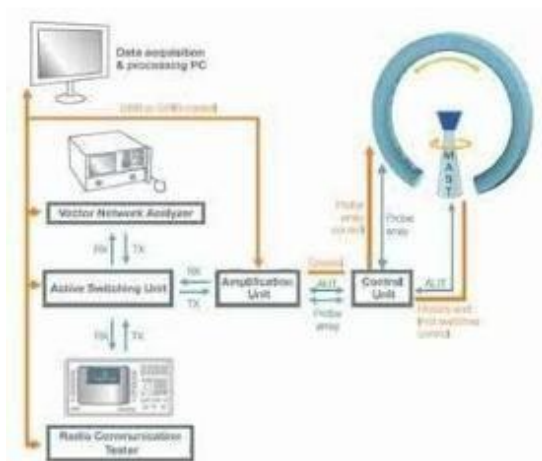
网络分析仪：ZVB8

Network Analyzer:5071c

综合测试仪：Comprehensive tester: R&S CMW500(2/3/4G/NB-IoT/WIFI/BT);

微波暗室：5G SISO/MIMO, 400 MHz - 8.0 GHz

RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz - 8.0 GHz



5 、环境可靠性测试 Environmental Performance

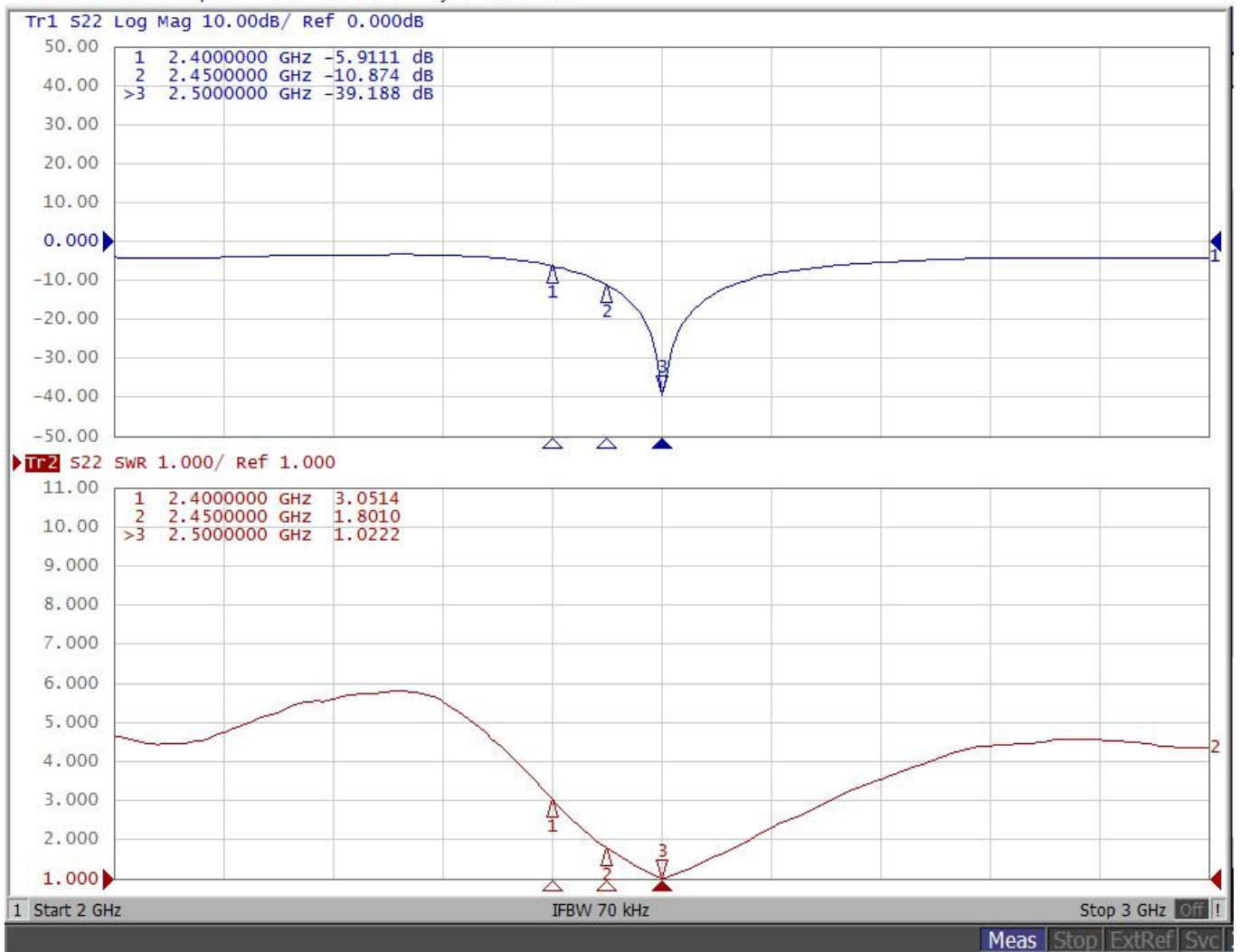
环境可靠性测试/Environmental Performance		
测试项目 Test Description	测试程序和条件 Test Procedures & Condition	测试要求 Requirements
温湿测试 Humidity Temperature Cycling	(Decay Test Conditions) : 温度:-20°C-80 °C Temperature : -20°C-80 °C 湿度: 0%-90% (Humidity:0%-90% R.H) 持续时间:持续时间:室内72 小时室外96小时 Duration : 72 hours indoors 96 hours outdoors	1, 外观良好 (No evidence of damage) 2. 电气性能符合产品规格 要求 (The electrical performances should meet the spec. specified)
高温试验 High temperature test	测试条件 (Decay Test Conditions) : 温度: 60°C- 80°C (Temperature:60°C- 85°C) 持续时间:室内72小时 室外96小时 Duration : 72 hours indoors 96 hours outdoors	1. 外观良好 (No evidence of damage) 2. 电气性能符合产品规格 要求 (The electrical performances should meet the spec. specified)
低温试验 Low Temperature test	测试条件 (Decay Test Conditions) : 温度:-20°C-40°C (Temperature:-20°C-40°C) 持续时间:室内72小时 室外96小时 Duration : 72 hours indoors 96 hours outdoors	1. 外观良好 (No evidence of damage) 2. 电气性能符合产品规格 要求 (The electrical performances should meet the spec. specified)

6 、测试数据 Test data

VSWR/LOSS/电压驻波/损失

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State



效率Efficiency / %

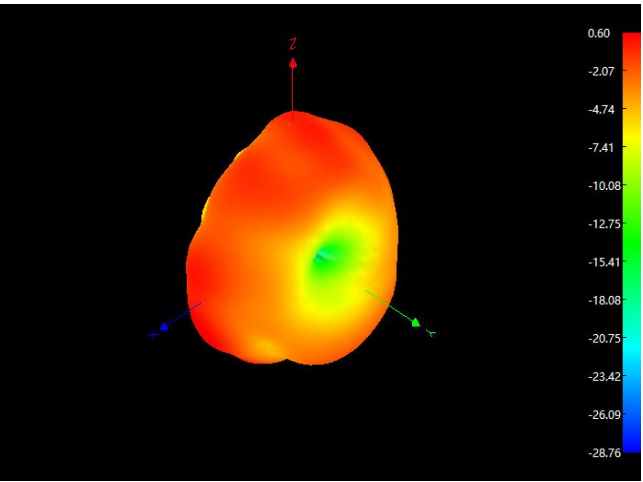
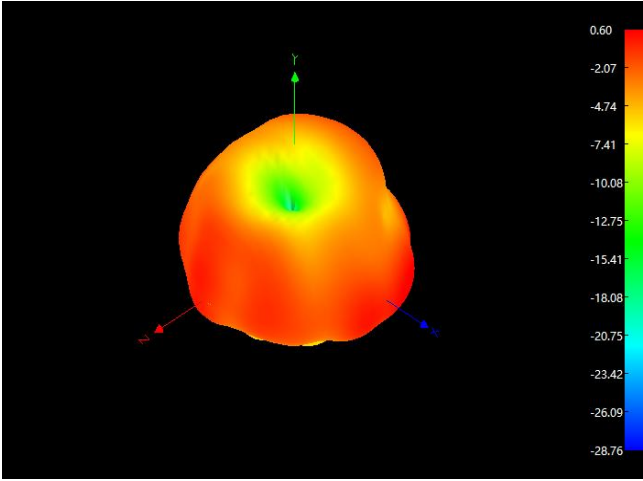
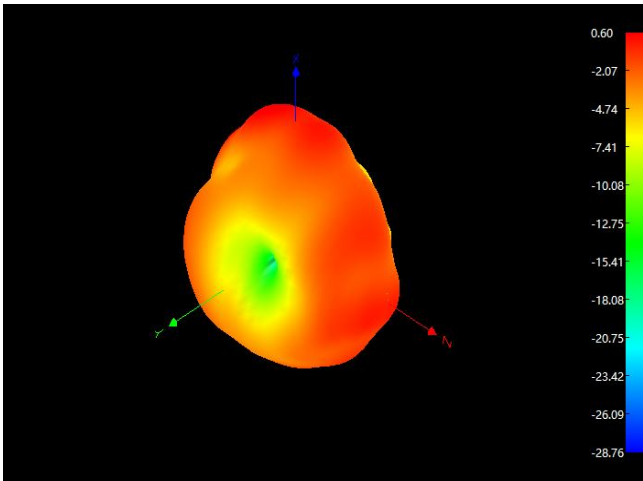
Frequency/Mhz	Efficiency / %
2400	50.93
2410	46.03
2420	53.83
2430	51.76
2440	55.34
2450	58.21
2460	59.98
2470	64.86
2480	62.81
2490	69.5
2500	65.01

增益MaxGain/dBi

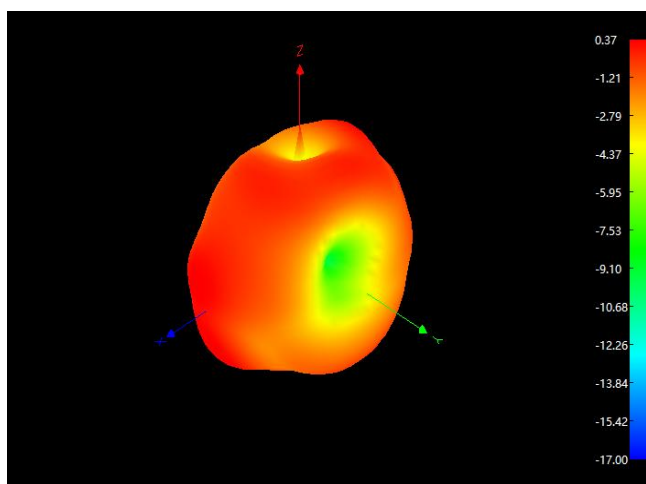
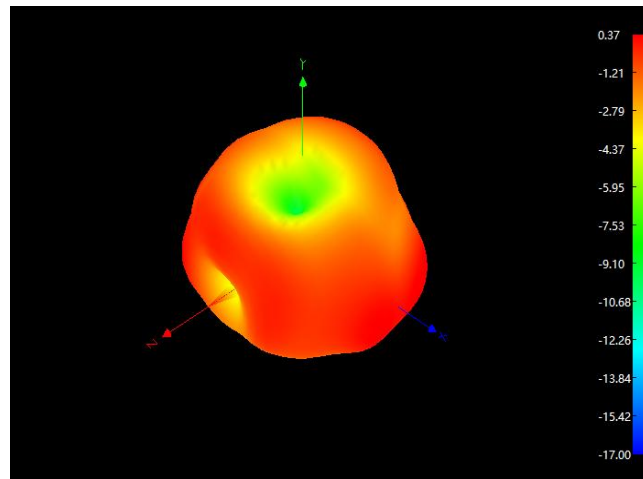
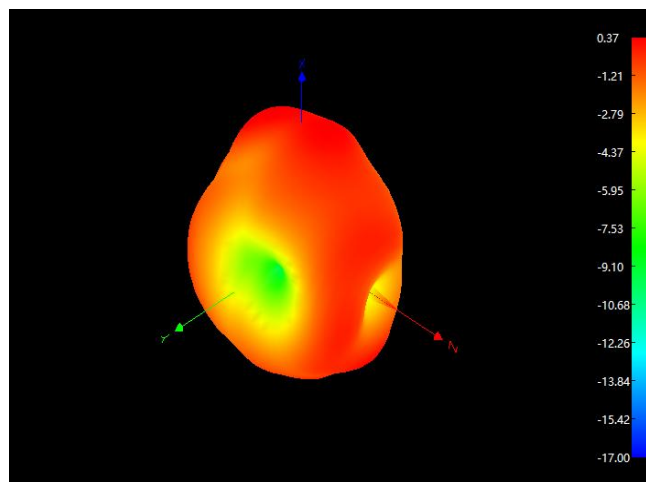
Frequency/Mhz	MaxGain/dBi
2400	3.14
2410	2.17
2420	3.05
2430	2.51
2440	2.65
2450	2.89
2460	2.86
2470	3.55
2480	2.85
2490	4.04
2500	3.19

方向辐射图 Radiation Patterns

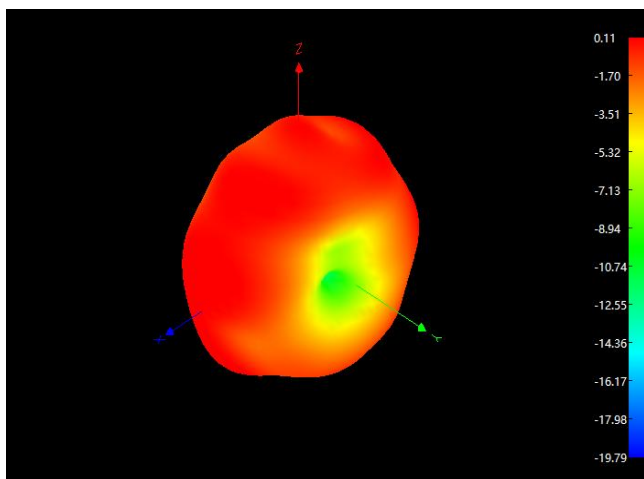
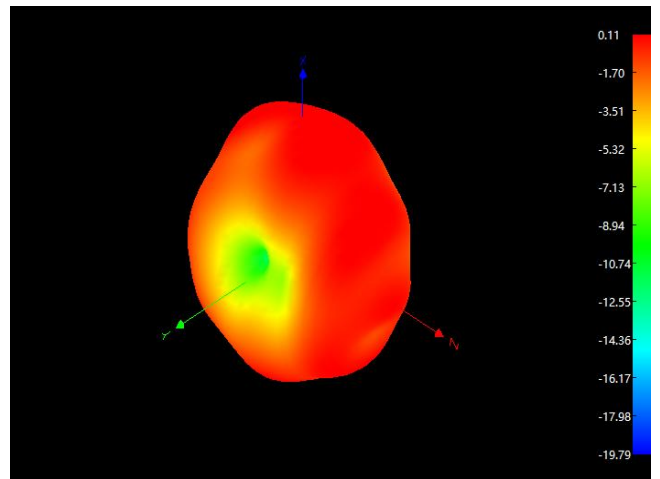
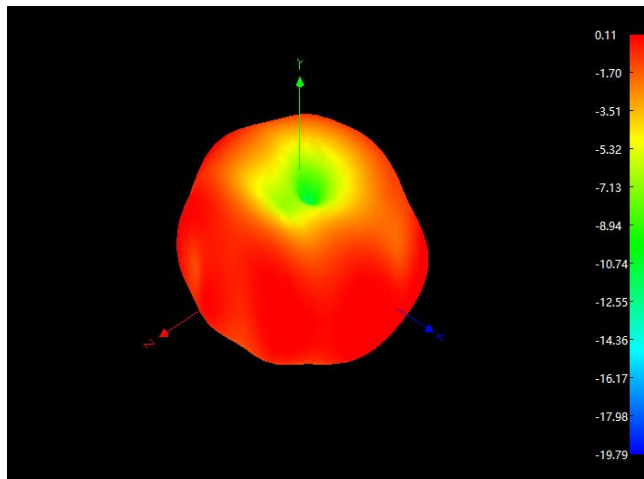
2400M



2450M



2500M



7. 工程图 Engineer ing drawings

