



# 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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## 1 、产品说明 Product Description

客户名 <b>Customer</b>	
整机类型 <b>Machine type</b>	胶棒天线 Glue stick antenna
天线频段 <b>Antenna frequency band</b>	2400MHZ-2500MHZ
天线形式 <b>antenna form</b>	外置天线 External antenna
极化方式 <b>Polarization mode</b> 极	垂直 vertical
型号 <b>model</b>	2.4G ANG
硬件版本 <b>Hardware version</b>	V1

## 2 、产品图片 Product Picture



### 3 、产品规格 Product Specifications

<b>无源电性能指标 Passive Electrical Specifications</b>	
频率范围 Frequency Range (MHz)	2400-2500
输入阻抗 Input Impedence ( $\Omega$ )	50
电压驻波比 VSWR	<2
增益 GAIN(dBi)	3.25

<b>机械指标 Mechanical Specifications</b>	
工作温度 Working Temperature ( $^{\circ}$ C)	-30—+80
颜色 Line color	黑色
天线尺寸 Antenna size (MM)	76.2
接口型号 Interface type	SMA••••
连接线 Connecting line	/

## 4 、测试环境 Test environment

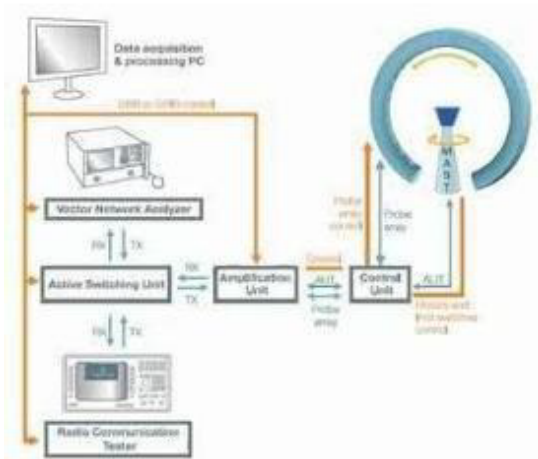
网络分析仪：ZVB8

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

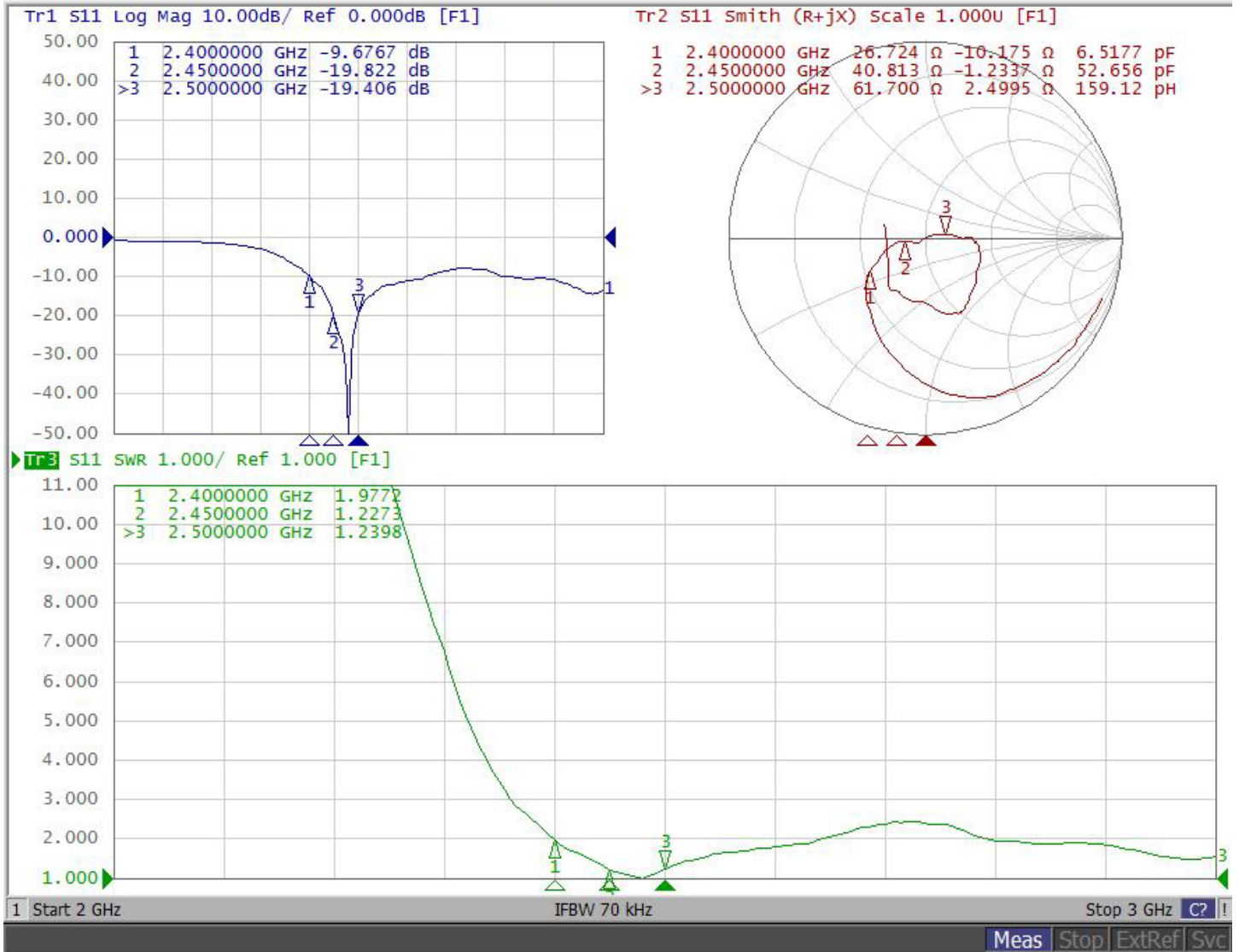
环境可靠性测试/Environmental Performance		
测试项目 Test Description	测试程序和条件 Test Procedures & Condition	测试要求 Requirements
温湿测试 Humidity Temperature Cycling	(Decay Test Conditions) : 温度:-20°C-80 °C Temperature : -20°C-80 °C 湿度: 0%-90% (Humidity:0%-90% R.H) 持续时间:持续时间:室内72 小时室外96小时 Duration : 72 hours indoors 96 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



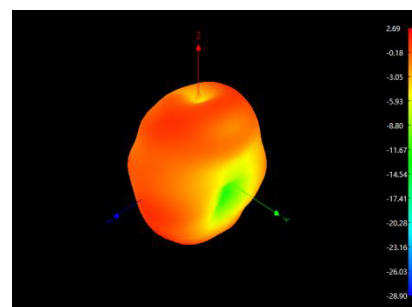
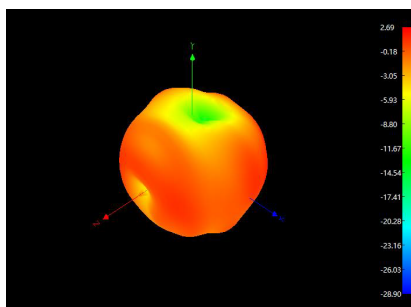
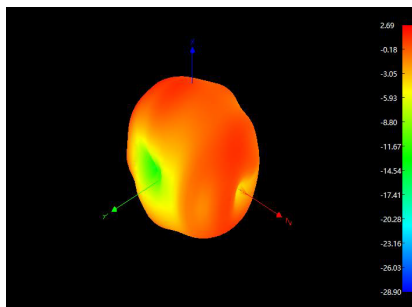
效率Efficiency / % 增益MaxGain/dBi

Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	79.25	3.25
2410	71.94	2.07
2420	77.98	2.87
2430	74.99	2.33
2440	78.7	2.79
2450	75.51	2.35
2460	76.03	2.44
2470	79.07	3.19
2480	69.98	2.36
2490	76.21	2.69
2500	68.39	2.51

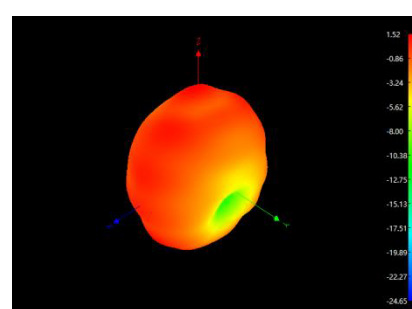
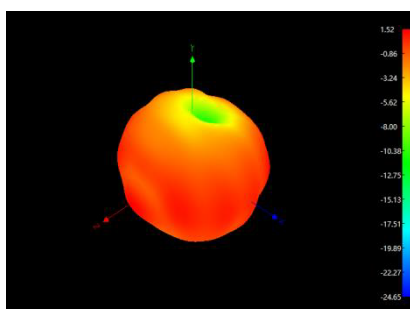
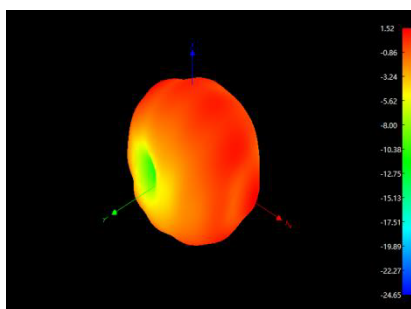


# 方向辐射图 Radiation Patterns

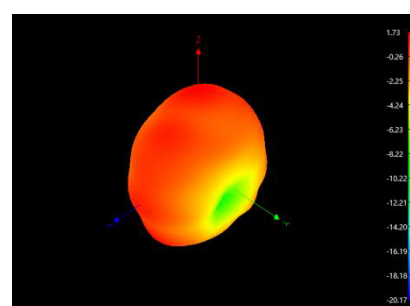
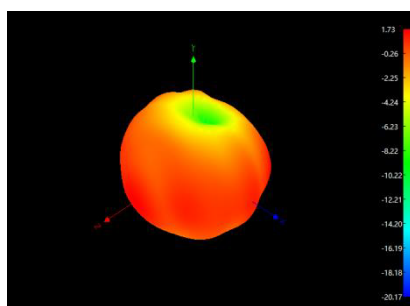
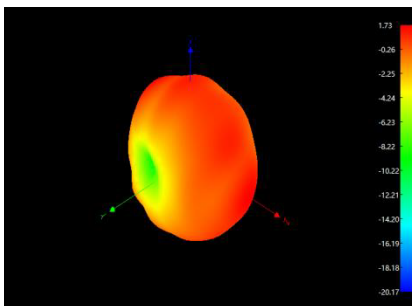
2400M



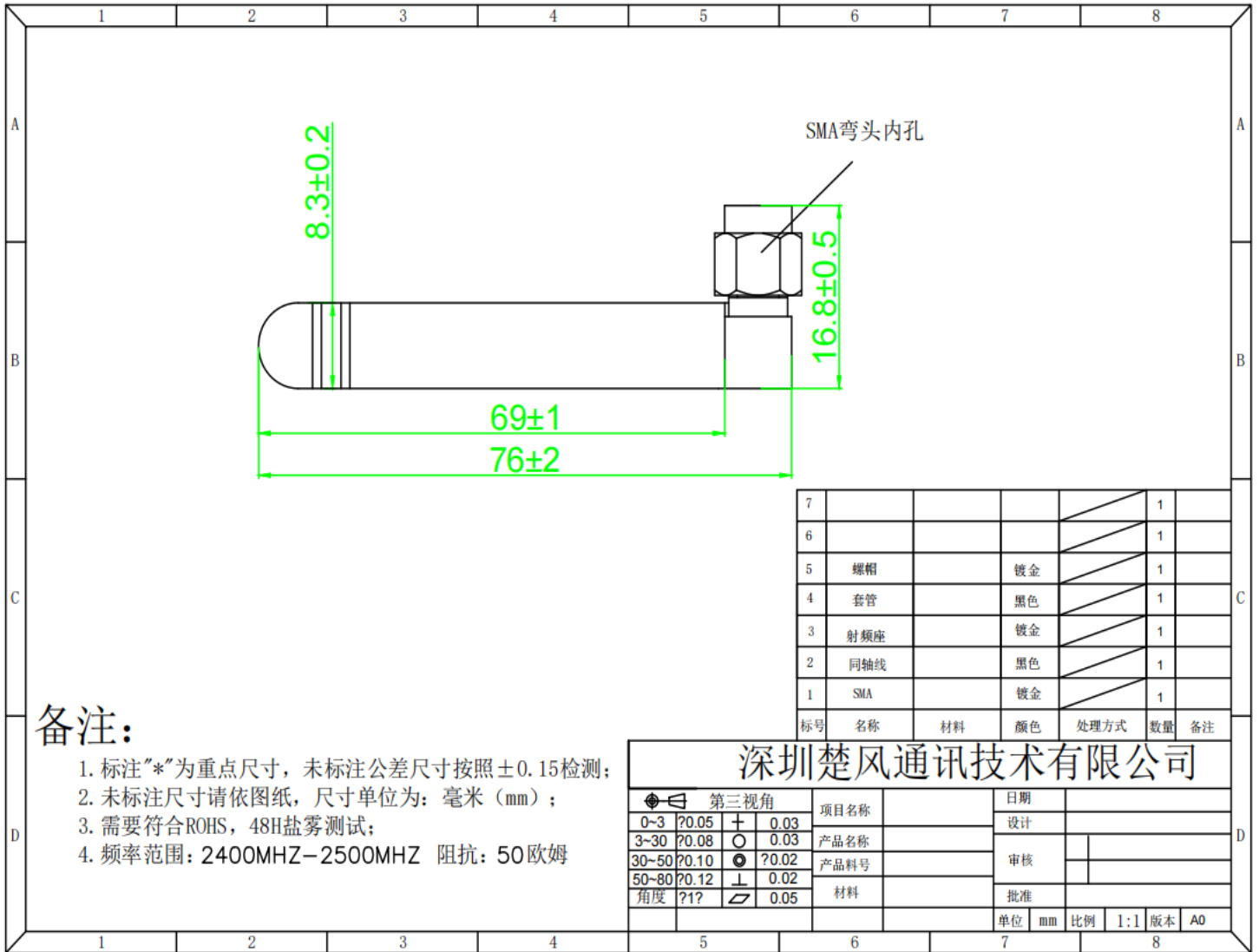
2450M



2500M



# 7、工程图 Engineering drawings



测试：陈冠利

编制：陈冠利

审核：陈冠利