

产品规格书

Product Specification

客户名称 Customer Name: _____

项目名称 Project Name: 5DB 2.4G External antenna80mm+IPEX _____

地址 Customer Address: _____

规格描述 Product Spec: 5DB 2.4G External antenna80mm+IPEX _____

版 本 REV: V1.0 _____

日 期 Date: : 2024.12.24 _____

制 作 drawing	审 核 check	批 准 approved
周景峰	卢朝阳	岳猛



测试设备及原理 Testing Equipment and Principle

1. 测试设备: Test equipment

网络分析仪 Network Analyzers :

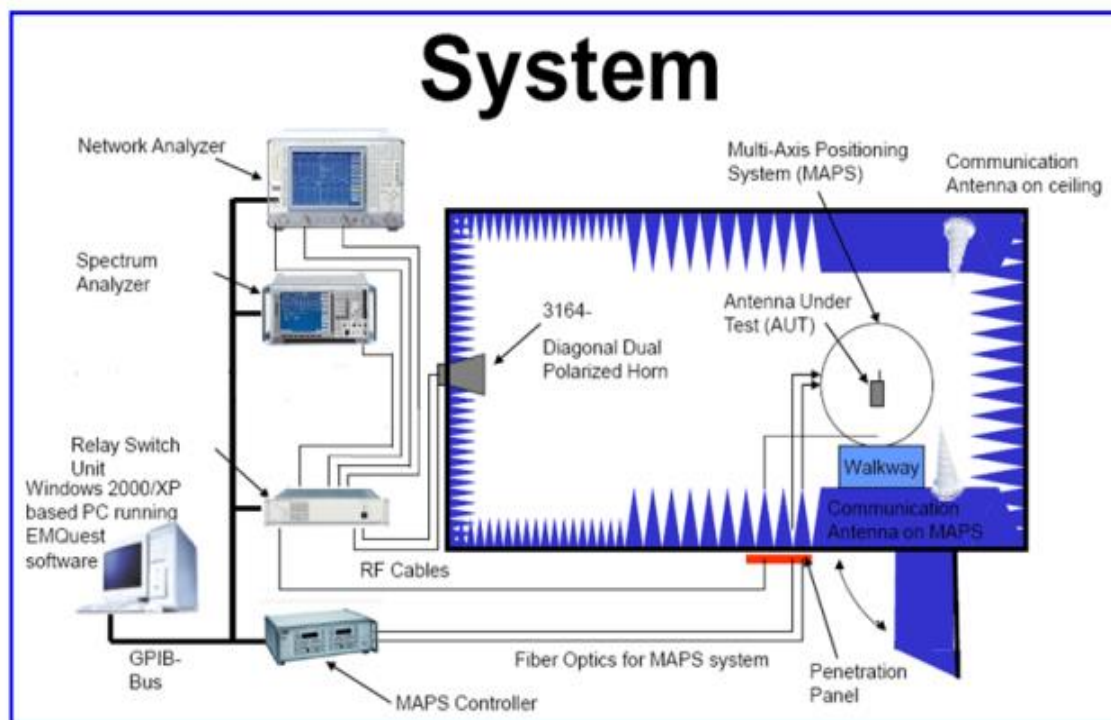
Agilent 8753D 5071B

综合测试仪 Communications Test Set:

Agilent E5515C

3D 暗室测试系统 3D Chamber Test System:

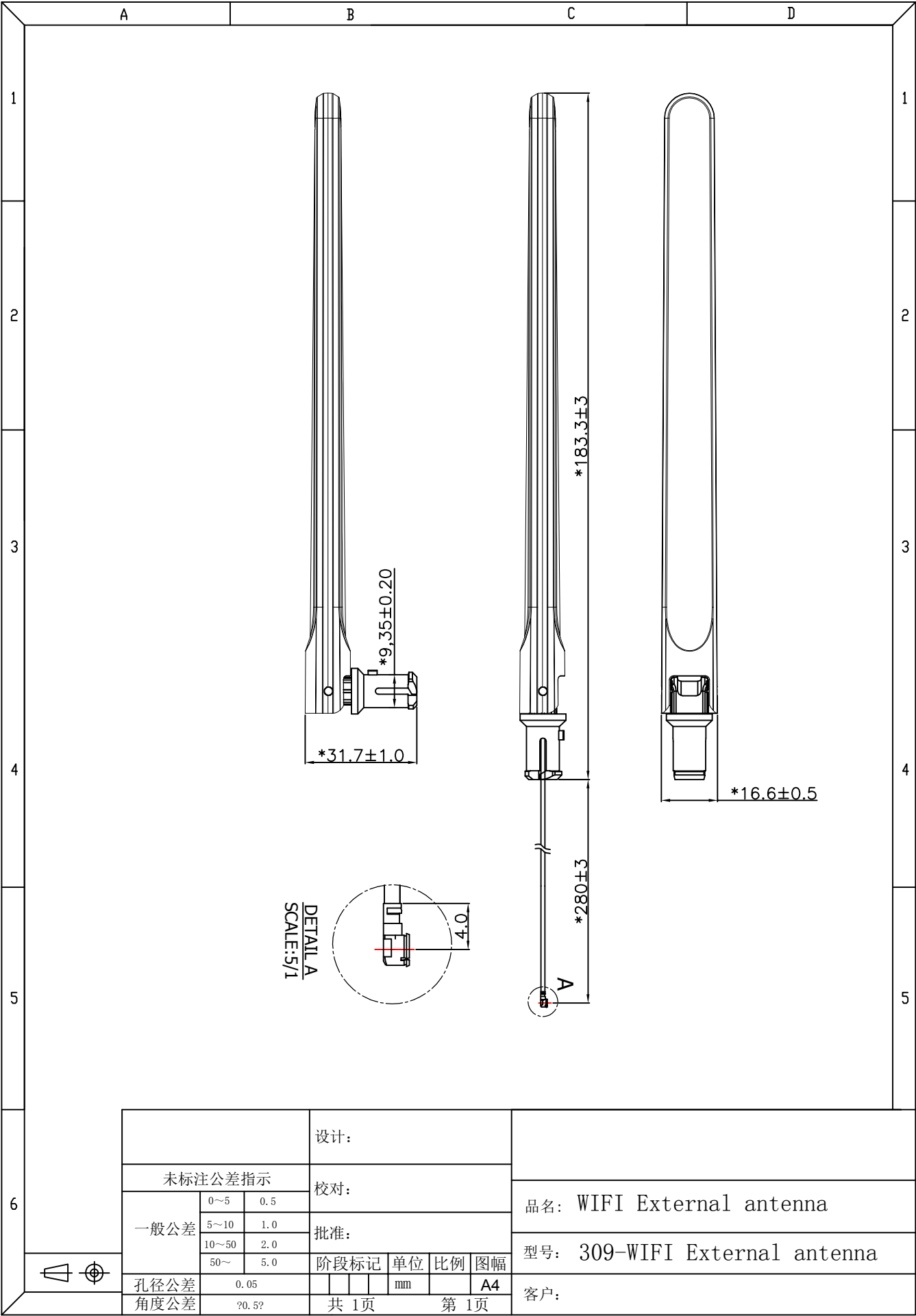
2. 测试原理: Test principle



一、电性能以及机械性能

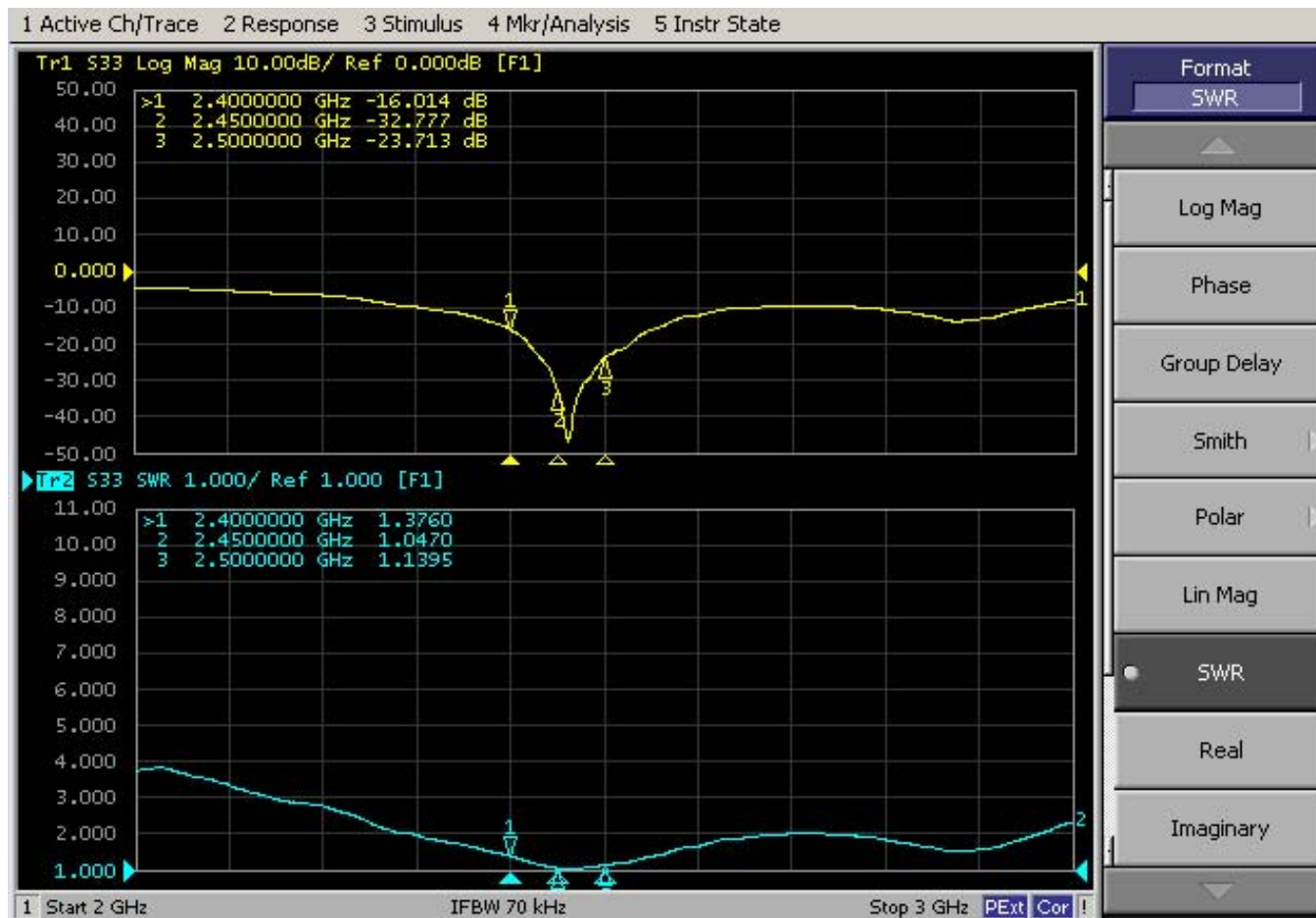
Electrical and mechanical properties

电性能指标		Electrical Specifications	
频率范围	2.4GHZ	Frequency Range	2400~2500MHz
电压驻波比	≤ 2.0	VSWR	≤ 2.0
增益	$\leq 5\text{DBI}$	GAIN	5.01 DBI
辐射方式	全向	Radiation	OMNI
极化方式	垂直	Polarizatin	LINEAR
输入阻抗	50 Ω	Input Impedance	50 Ω
机械指标		Mechanical Specifications	
接口形式	一代端子	Input connector	Primary terminal
天线材质	ABS & COPPER	Antenna materia	ABS & COPPER
工作温度	-30°C~+80°C	Working Temperature	-30°C~+80°C
工作湿度	40~85%	Working Humidity	40~85%



			设计:						
未标注公差指示			校对:				品名: WIFI External antenna		
一般公差	0~5	0.5	批准:				型号: 309-WIFI External antenna		
	5~10	1.0	阶段标记 单位 比例 图幅				客户:		
	10~50	2.0							
	50~	5.0							
孔径公差	0.05				mm	A4			
角度公差	±0.5°		共 1页		第 1页				

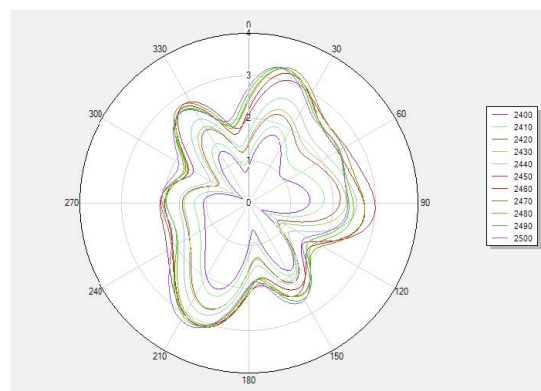
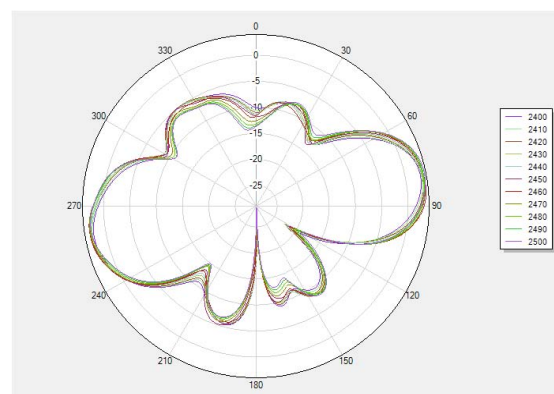
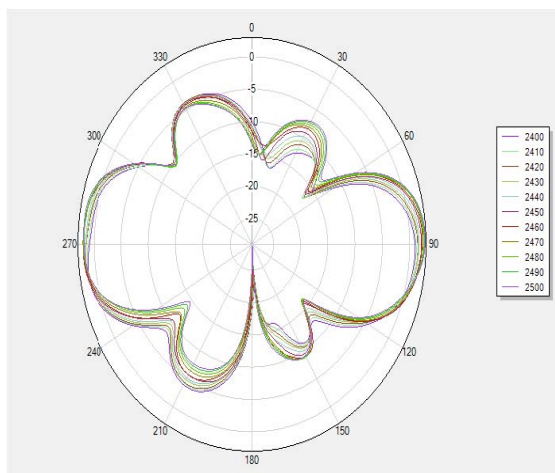
二、无源测试数据Passive test data



四、增益效率测试数据Gain efficiency test data

Frequency (MHz)	Efficiency (%)	Peak Gain / dB
2400	56.23	4.54
2450	67.92	5.01
2500	65.01	4.76

四、方向性测试数据Directivity test data



五、 可靠性试验报告 5. Reliability test report

项目 item	测试条件 Test condition	规格 specification
储存环境 Storage environment	在没有指定的情况下测试温度、湿度、气压如下： 1. 温度为-40℃~+85℃ The temperature, humidity, and air pressure are tested in the absence of a specified temperature as follows: 1. The temperature is -40℃~+85℃2, the relative humidity is 45%-85%3, and the air pressure is 86kpa-106kpa 2. 相对湿度为45%-85% 3. 气压为86kpa-106kpa	电气机械性能正常 Electrical and mechanical properties are normal
高低温试验 High and low temperature test	在70℃与-40℃之间进行5次循环，然后在正常条件下 The appearance quality is checked after 5 cycles between 70 ° C and -40 ° C, and then 1-2H under normal conditions.	尺寸应满足规定并应 The dimensions shall meet the requirements and shall meet the mechanical and electrical properties 满足满足 于机械、电气性能
耐恒定湿热 试验 Resistance to constant damp heat test	相对湿度95±3%，试验温度：40℃.持续2H作用后， 试品取出后5min之内测定电气性能，试品在正常条件下1-2H，检查外观质量 The relative humidity was 95±3%, and the test temperature was 40℃. After 2H treatment, the electrical properties were measured within 5min after the samples were taken out, and the appearance quality of the samples was checked under normal conditions for 1-2H	尺寸应满足规定并应 The dimensions shall meet the requirements and shall meet the mechanical and electrical properties 满足满足 于机械、电气性能
振动试验 Vibration test	振频范围10-55HZ，位移幅值：0.35MM，加速度幅值： 50.0M/S，扫频循环次数：30次 Vibration frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude :50.0M/S, frequency sweep cycle: 30 times	电气机械性能正常 Electrical and mechanical properties are normal
跌落试验 Drop test	1M高空按照互相垂直的轴方向自由跌落3次 Free fall 3 times at 1M altitude in the direction of perpendicular axes	电气机械性能正常 Electrical and mechanical properties are normal

产品包装规范 Code for product packaging

产品名称/规格 Product name/specification

一、标签要求 1. Label requirements

Purchase order number Material code Name specification Quantity/unit remark	*****	
	采购单号	*****
	物料编码	*****
	品名规格	*****
	数量/单位	*****
	备注	*****

采购单号	*****
物料编码	*****
品名规格	*****
数量/单位	*****
备注	*****

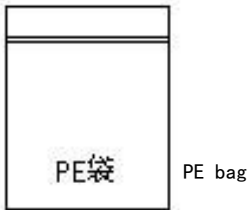
二、装箱要求

作业说明:

1. 内包装:

产品 50 PCS 一小袋

2, packing requirements
Operation description: 1,
inner packaging: 50 PCS one
bag of products



2. 外包装:

根据实际数量定数量/箱

2. Outer packing:
quantity/box according
to actual quantity



注意事项:

1. 是否要增设隔板、珍珠棉;
2. 标签的贴附, 如 ROHS 等;

Note:
one Whether to add partitions, pearl
cotton; 2. Labeling, such as ROHS,
etc.

