



APPROVAL SHEET

承认书

CUSTOMER NAME 客户名称	Xiamen Milesight IoT Co., Ltd.	
CUSTOMER P/N 客户料号	23.001.000007	
PART NAME 品 名	WIFI-1 黑色 FPC 内置天线 TO SMB 公针 L=90MM WIFI-1 black FPC built-in antenna TO SMB standard pin L = 90MM	
P/ N 料 号	YJC-6N090-S02	
APPROVAL REV. 版 次	A0	
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目 录 Table of Contents

1、	封面 Cover。	1
2、	目录 Table of Contents。	2
3、	履历表 Curriculum Vitae。	3
4、	天线平面图 Antenna plan view。	4
5、	天线技术参数及环境性能测试 Antenna technical parameters and environmental performance testing。	5-6
6、	天线实物图 Antenna physical diagram。	7
7、	天线性能测试图 Antenna performance test chart。	7
8、	2D.3D (2.4G/5G) 测试数据 2D. 3D (2.4G/5G) Test Data。	8-10
9、	ROHS 物料控制报告 ROHS Material Control Report。	11-12



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履历表 Curriculum Vitae:

版本 Version	变更内容及更改原因 Change content and reasons for the change	日期 Date	发行 Release
A/0	初版发行 First edition release	2024 年 06 月 17 日 June 17, 2024	

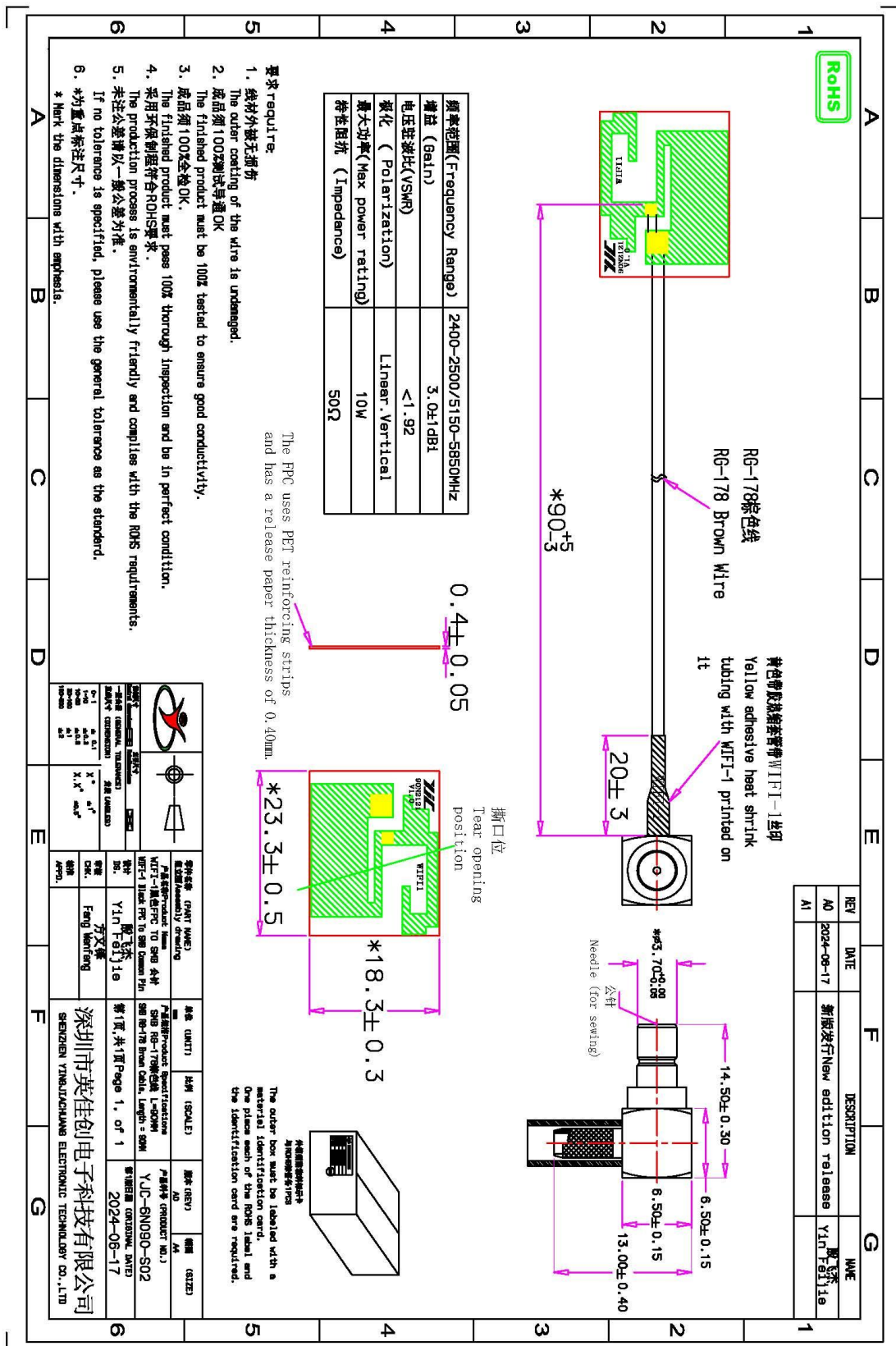


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天线平面图 Antenna plan view:





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天线技术参数及环境测试 Antenna technical parameters and environmental testing:

电气技术参数 Electrical technical parameters			
电 性 能 指 标		Electrical Specifications	
频率范围	2400-2500/5150-5850MHz	Frequency Range	2400-2500/5150-5850MHz
电压驻波比	<1.92	VSWR	<1.92
输入阻抗	50 Ω	Input Impedance	50 Ω
方向	全向	Direction	All
增益	3.0 $\pm$ 1dBi	Gain	3.0 $\pm$ 1dBi
机 械 指 标		Mechanical Specifications	
线材颜色	棕色	Wire color	brown
接口形式	SMB	Input connector	SMB
线材长度	90mm	Wire length	90mm
工作温度	-20 $^{\circ}$ C~+70 $^{\circ}$ C	Working Temperature	-20 $^{\circ}$ C~+70 $^{\circ}$ C
工作湿度	20%~80%	Working Humidity	20%~80%



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环境性能测试(Environmental performance testing):

项目 (Project)	测试条件 (Test condition)	规格 (Specification)
储存环境 Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows: 在没有指定的情况下测试温度、湿度、气压如下: 1. Temperature is $-45^{\circ}\text{C} \sim +85^{\circ}\text{C}$ 1. 温度为 $-45^{\circ}\text{C} \sim +85^{\circ}\text{C}$ 2. Relative humidity of 20~80% 2. 相对湿度为20~80% 3. Air pressure is 86 kpa to 106 kpa 3. 气压为86kpa-106kpa	Electrical and mechanical properties is normal 电气机械性能正常
高低温试验 high and low temperature test	Between 85°C and -45°C for 5 loops, then 1-2 h under normal conditions, check the appearance quality. 在 85°C 与 -45°C 之间进行5次循环,然后在正常条件下1-2H,检查外观质量。	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties 尺寸应满足规定并应满足于机械、电气性能
耐恒定 湿热试验 Constant damp and hot resistance test	80 + / - 3% relative humidity, temperature test: 40°C . Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality 相对湿度 $80 \pm 3\%$, 试验温度: 40°C . 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	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties 尺寸应满足规定并应满足于机械、电气性能
振动试验 vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times 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	Electrical and mechanical properties is normal 电气机械性能正常
跌落试验 fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times 1M高空按照互相垂直的轴方向自由跌落3次	Electrical and mechanical properties is normal 电气机械性能正常



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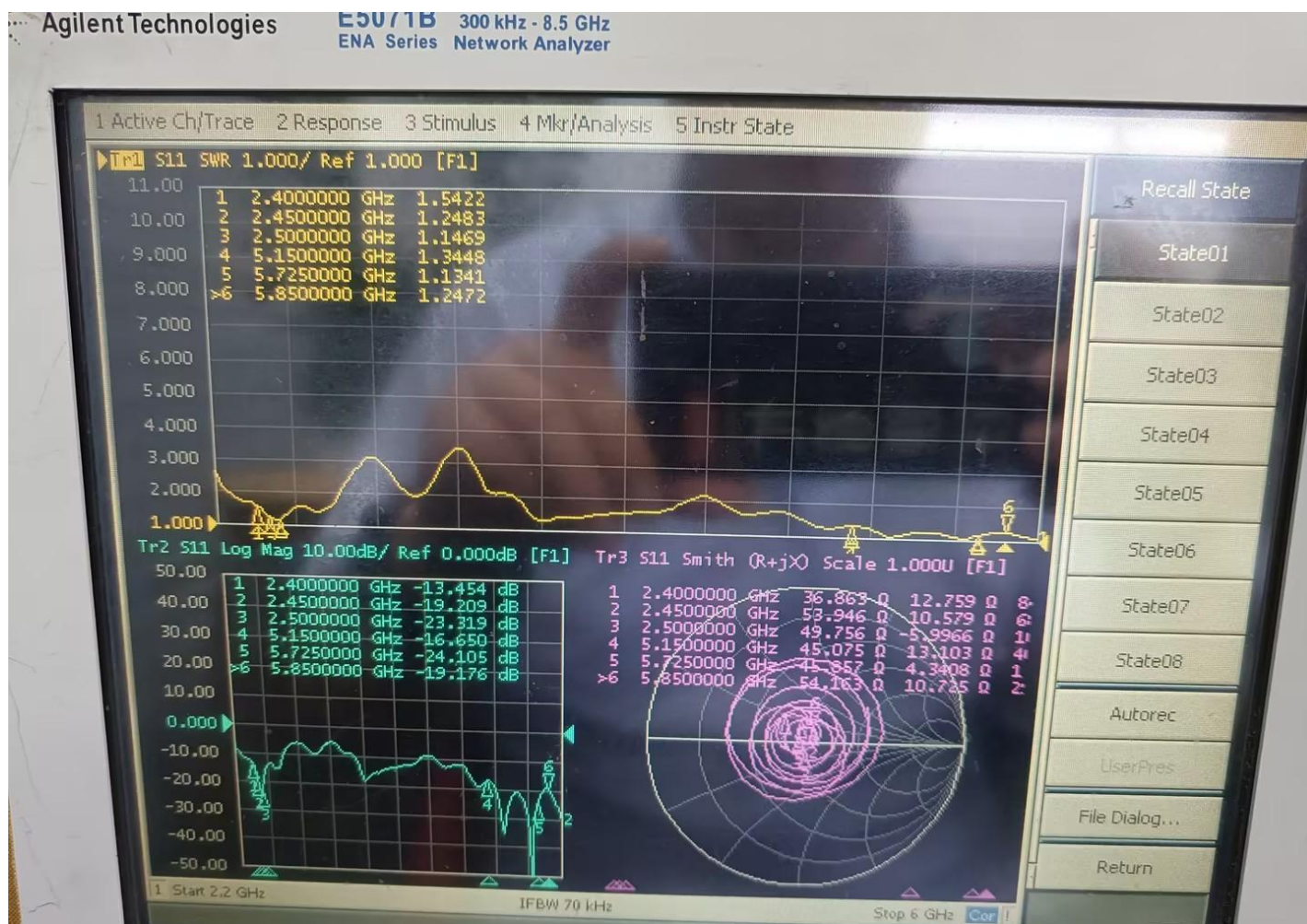
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天线实物图 Antenna physical diagram:



天线性能测试图 Antenna performance test chart:





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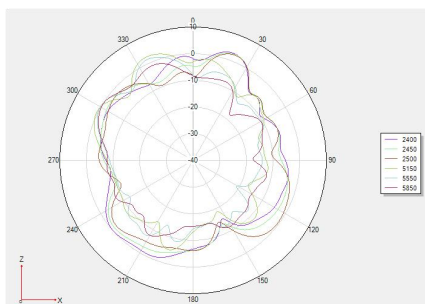
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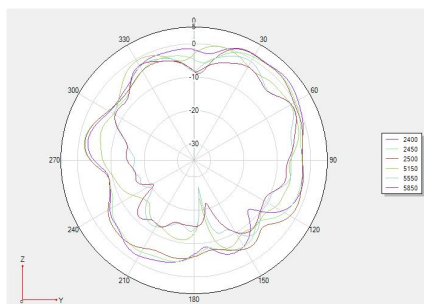
2D、3D 测试数据(2.4G/5G)2D and 3D test data (2.4G/5G):

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	45.39	3.64
2410MHz	47.32	2.98
2420MHz	48.42	3.26
2430MHz	48.53	3.22
2440MHz	50.93	3.14
2450MHz	49.55	2.92
2460MHz	50.47	2.95
2470MHz	50.93	2.79
2480MHz	49.09	2.60
2490MHz	49.77	2.50
2500MHz	44.16	2.55
5150MHz	51.64	2.83
5250MHz	58.21	2.72
5350MHz	59.02	3.17
5450MHz	59.02	2.75
5550MHz	62.09	2.46
5650MHz	56.49	2.80
5750MHz	56.36	2.22
5850MHz	55.72	2.02

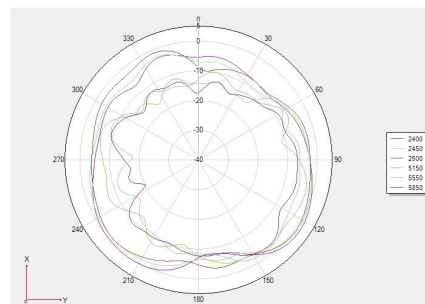
Phi 0 2D:



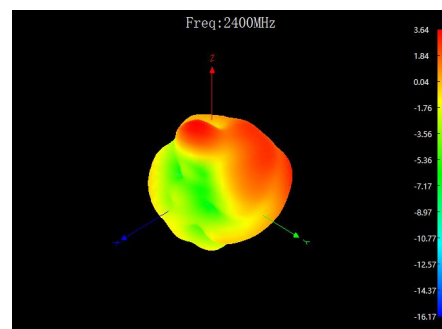
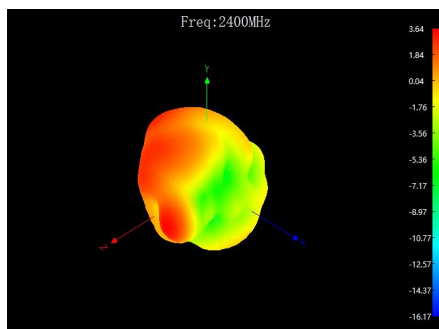
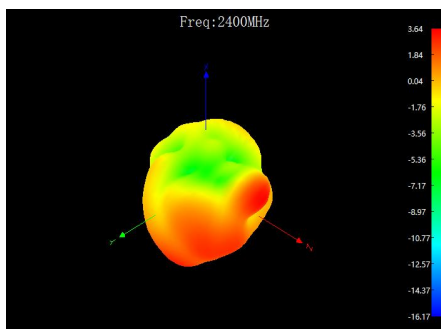
Phi 90 2D



Theta 90 2D

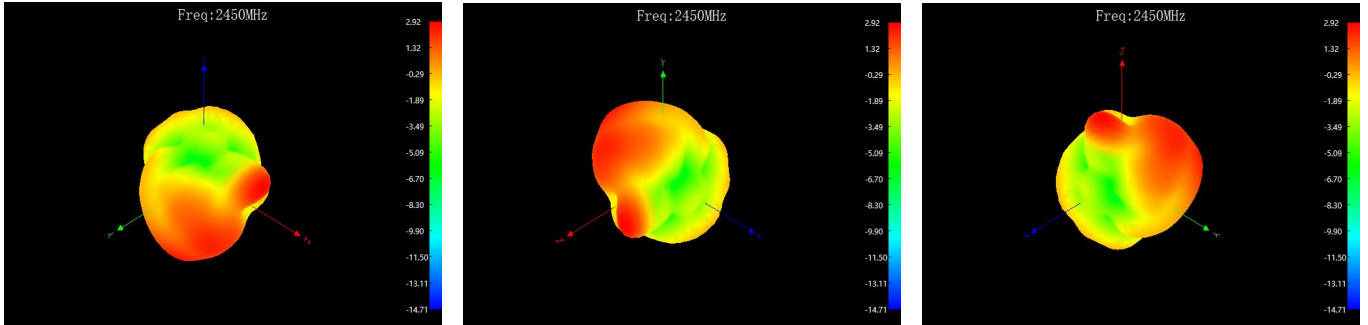


3D 2400:

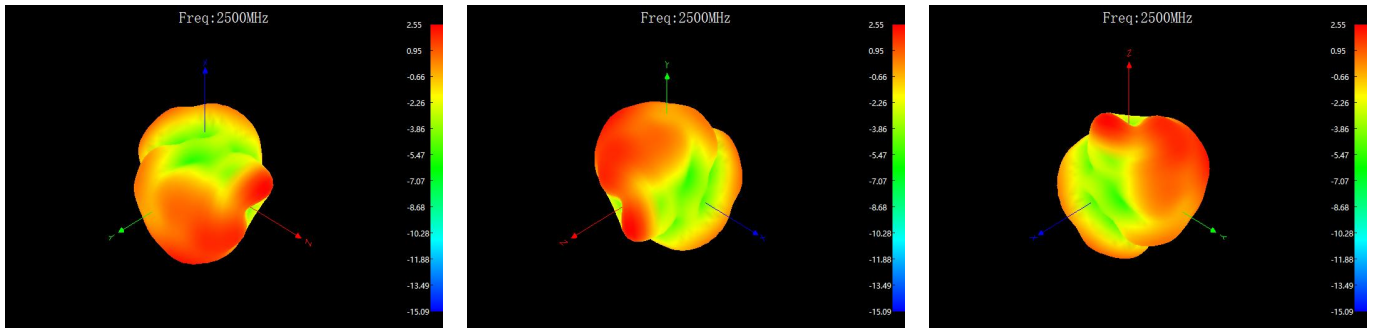




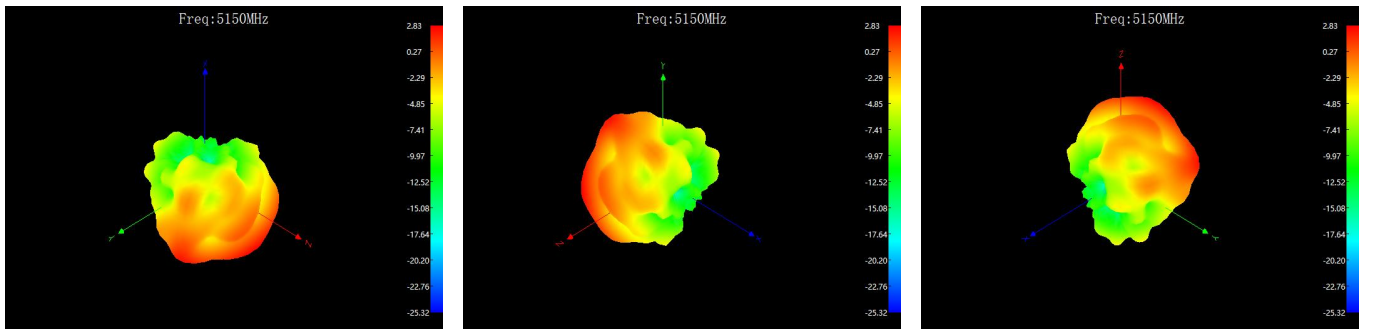
3D 2450:



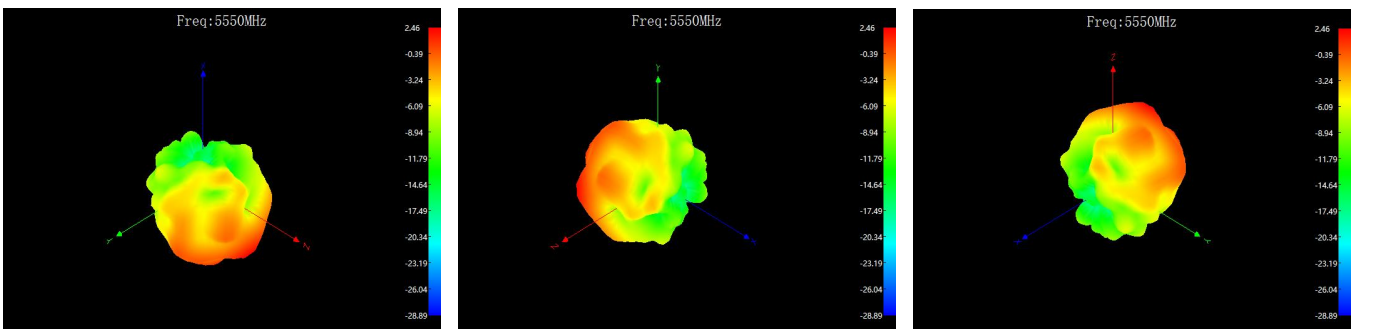
3D 2500:



3D 5150:



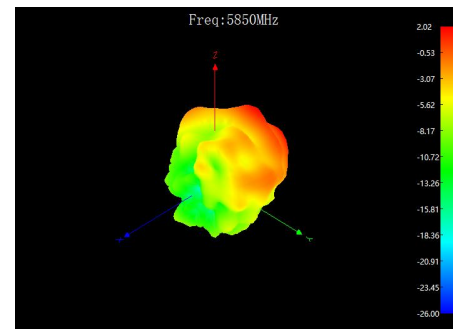
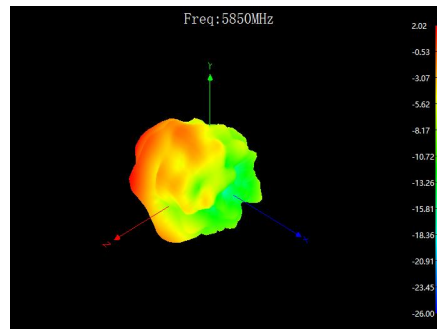
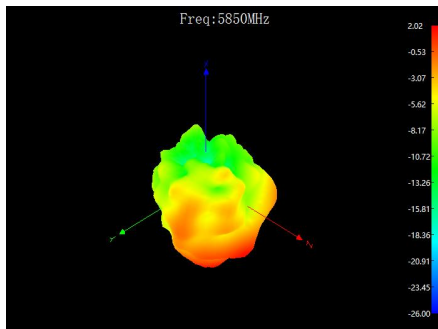
3D 5550:





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3D 5850:





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ROHS 物料控制报告 ROHS Material Control Report

兹证明向贵司交货的零组件、辅助材料所使用的原材料、以及生产工程中的添加剂等均符合 RoHS 限制使用有害物质指令的环保要求 (RoHS 指令 2011/65/EC) This is to certify that the raw materials used for the components and auxiliary materials delivered to your company, as well as the additives used in the production process, all comply with the environmental protection requirements of the Restriction of Hazardous Substances Directive (RoHS Directive 2011/65/EC).

关于零组件、辅助材料所使用的原材料、包装材料以及和产过程中使用的添加剂等的构成成份报告如下: The composition of the raw materials, packaging materials used for components and auxiliary materials, as well as the additives used in the production process, is as follows:

组成物料名称 Component /Part Name	组成材料 Material Composition	ICP 报告编号 ICP report #	测试机构 Test Org.	测试时间 Test Date	有 害 物 质 含 量(ppm)						是否合格? PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
线材 Wire material	同轴线缆 Coaxial cable	CANEC25018034403	SGS	25/07/30	ND	ND	ND	ND	ND	ND	PASS
SMB	胶芯 O-ring	TAOEC25007265701	SGS	25/08/06	ND	ND	ND	ND	ND	ND	PASS
	黄铜 Brass	CANEC25032508610	SGS	26/01/06	33	23495	ND	ND	ND	ND	PASS
	金镀层 Gold coating	CANPC26004541501	SGS	26/03/09	ND	49	ND	ND	ND	ND	PASS
环保锡丝 Environmental -friendly tin wire	环保锡丝 Environment al-friendly tin wire	SZXPC26000658916	SGS	26/02/26	ND	22	ND	ND	ND	ND	PASS
FPC	油墨 Ink	ETR25901252M01	SGS	25/09/11	ND	4.78	ND	ND	ND	ND	PASS
	3M9471LE	SHAEC25032493501-1	SGS	26/01/06	ND	ND	ND	ND	ND	ND	PASS



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	基材 Base material	A22600588471010004E	CTI	26/04/02	ND	ND	ND	ND	ND	ND	PASS
热缩套管 Heat shrink tubing	热缩套管 Heat shrink tubing	CANEC25021146402	SGS	25/09/01	ND	ND	ND	ND	ND	ND	PASS