



Shenzhen Yingjia Chuang electronic technology Co., LTD

<http://www.szsyjc.com>

APPROVAL SHEET

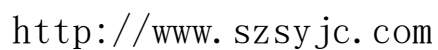
acknowledgement

CUSTOMER NAME 客户名称	Jichen Technology	
CUSTOMER P/N 客户料号		
PART NAME 品 名	2.4G metal built-in antenna	
P/ N 料 号	YJC-6N000-B446	
APPROVAL REV. 版 次	A0	
DELIVERY DATE 送样日期	2023 年 07 月 13 日	
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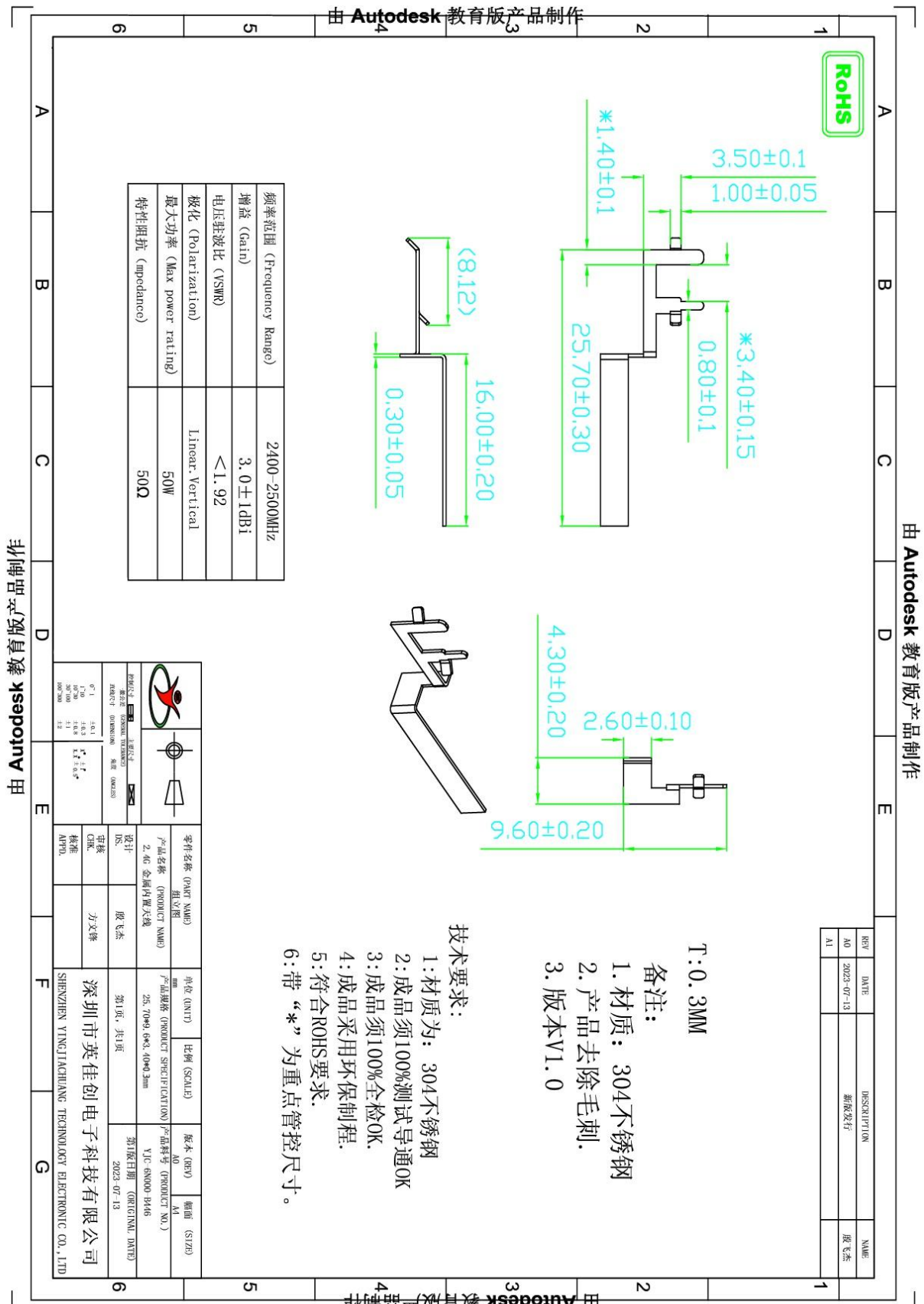


resume:

edition	Content of change and reasons for change	date	release
A0	Initial release	July 13th, 2023	



Antenna plan:





Antenna technical parameters and environmental testing:

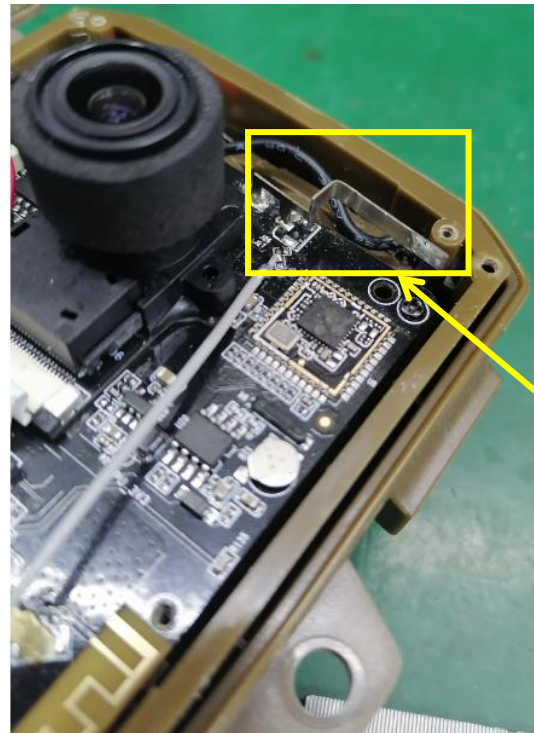
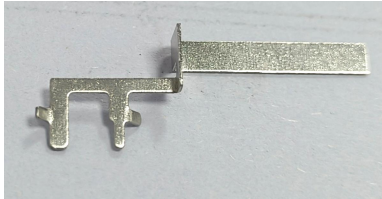
Electrical technical parameter			
Electrical signifier		Electrical Specifications	
Frequency range	2400-2500MHz	Frequency Range	2400-2500MHz
Voltage standing wave ratio	<1.92	VSWR	<1.92
Input impedance	50 Ω	Input Impedance	50 Ω
direction	全向	Direction	All
gain	3.82	Gain	3.82
Mechanical index		Mechanical Specifications	
Wire material	304 stainless steel	Wire material	304 stainless steel
Interface form		Input connector	
Operating temperature	-20℃~+70℃	Working Temperature	-20℃~+70℃
Working humidity	20~80%	Working Humidity	20~80%

Environmental performance test:

item	Test condition	specification
Storage environment	Test temperature, humidity, and air pressure without specifying the following: 1. The temperature ranges from -20℃ to +70℃ 2. Relative humidity is 45%-85% 3. Air pressure is 86kpa-106kpa	Electrical and mechanical properties are normal
High and low temperature test	The appearance quality is checked after 5 cycles between 70 ° C and -20 ° C, and then 1-2H under normal conditions.	Dimensions shall meet the requirements and shall be satisfied with mechanical and electrical properties
Resistance to constant damp heat test	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	Dimensions shall meet the requirements and shall be satisfied with mechanical and electrical properties
Vibration test	Vibration frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, frequency sweep cycle: 30 times	Electrical and mechanical properties are normal
Drop test	Free fall 3 times at 1M altitude in the direction of perpendicular axes	Electrical and mechanical properties are normal

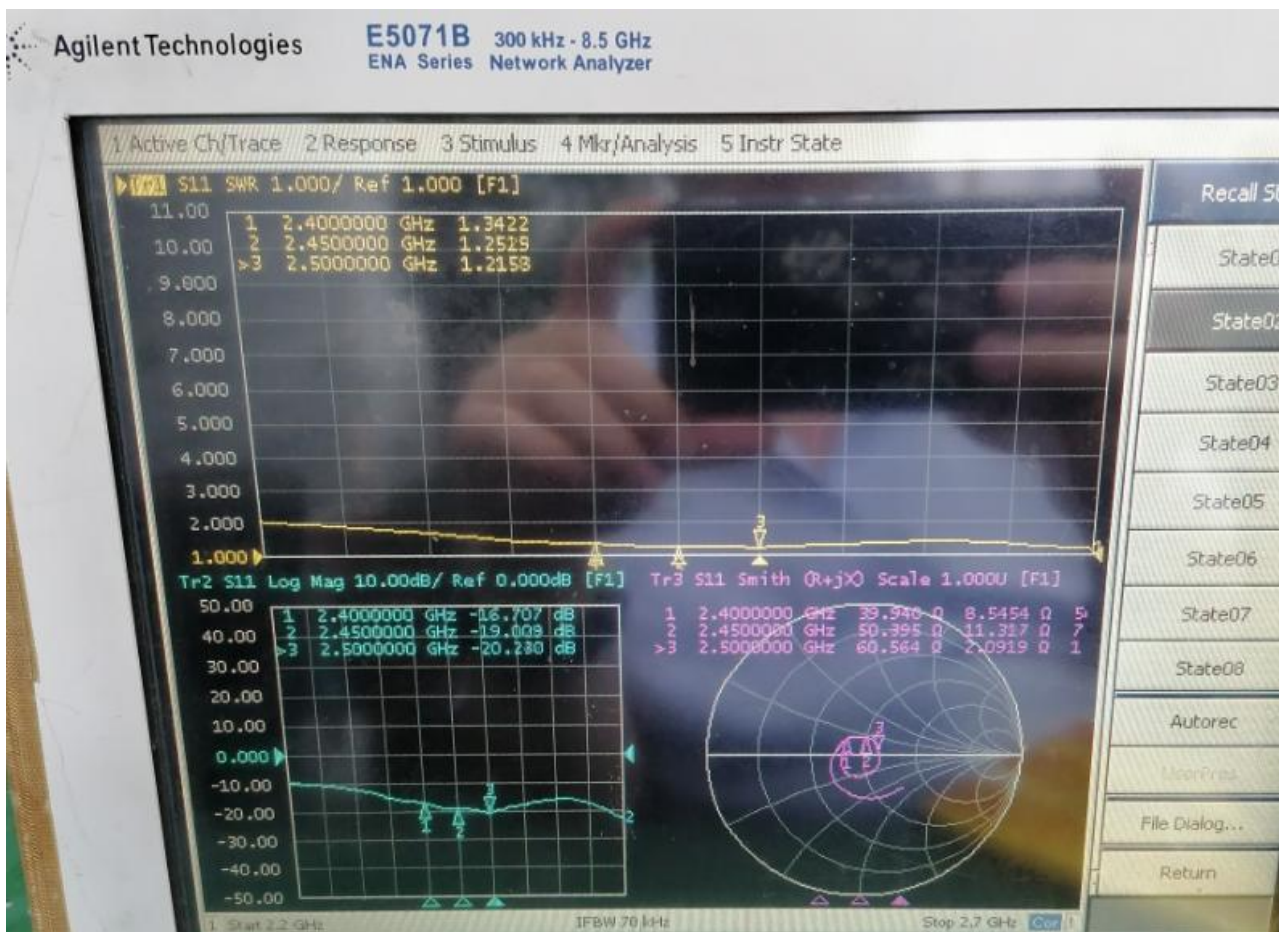


Antenna physical diagram and attached location diagram:



天线贴附位置

Antenna performance test diagram:

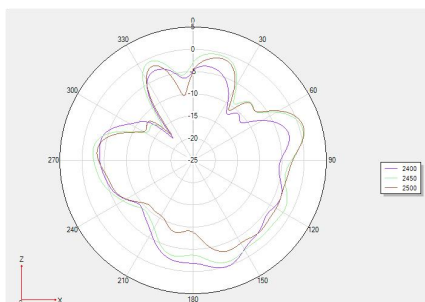




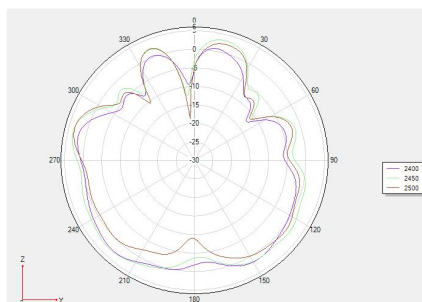
2D、3D(2.4G)Test data:

Frequency (MHz)	Efficiency (%)	Gain. (dBi)
2400MHz	60.26	3.14
2410MHz	60.81	3.06
2420MHz	61.81	3.22
2430MHz	67.26	3.68
2440MHz	66.93	3.69
2450MHz	68.72	3.82
2460MHz	67.83	3.62
2470MHz	63.11	3.34
2480MHz	67.11	3.75
2490MHz	62.46	3.24
2500MHz	69.26	3.63

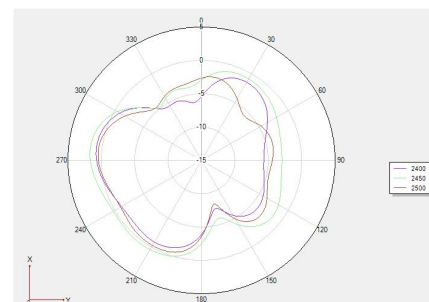
Phi 0 2D figure:



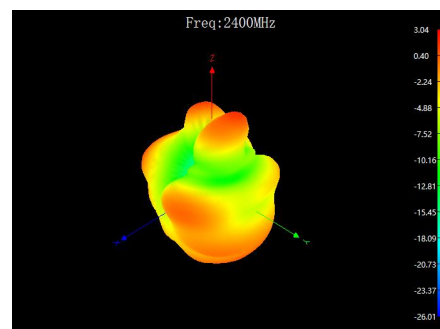
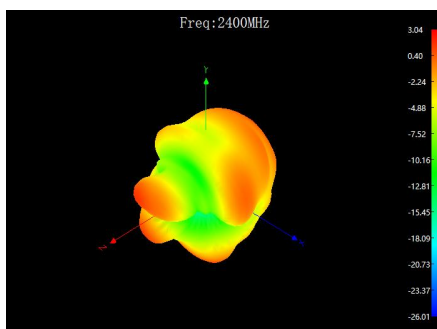
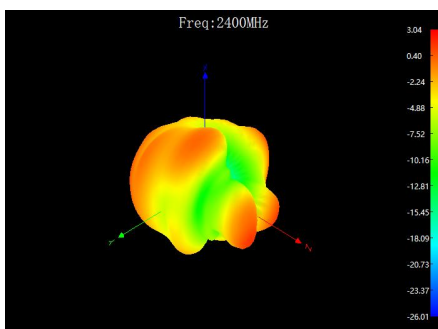
Phi 90 2D figure



Theta 90 2D figure

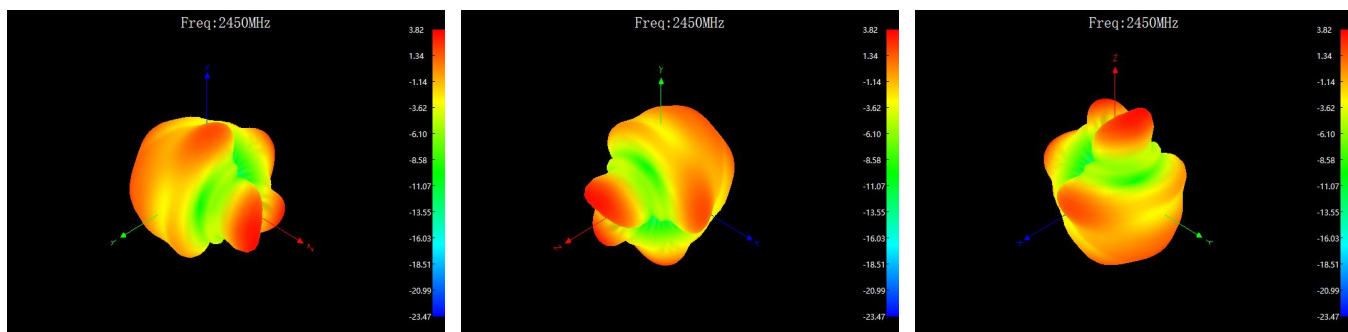


3D 2400:

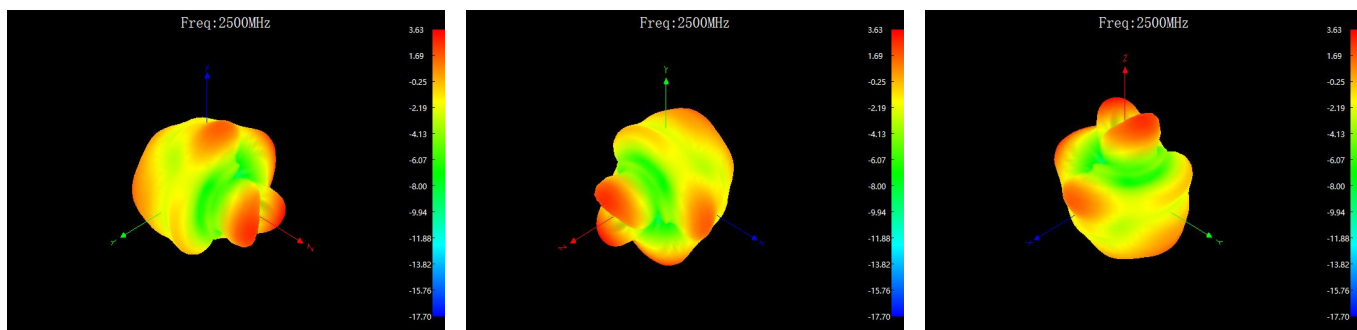




3D 2450:



3D 2500:





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ROHS Material control report											
This is to certify that the components delivered to your company, the raw materials used in the auxiliary materials, and the additives used in the production engineering comply with the environmental requirements of the RoHS Directive on the Restriction of the use of Hazardous Substances (RoHS Directive 2011/65/EC).											
The components of components, raw materials used in auxiliary materials, packaging materials and additives used in the production process are reported 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
Copper part	304 stainless steel	A2230142930101003	SGS	23/04/06	ND	ND	ND	ND	ND	ND	PASS