



深圳市英佳创电子科技有限公司

<http://www.szsyjc.com>

APPROVAL SHEET

承认书

CUSTOMER NAME 客户名称	恒晟威	
CUSTOMER P/N 客户料号		
PART NAME 品 名	2.4G/5G 黑色分体天线	
P/ N 料 号	YJC-60202-B52	
APPROVAL REV. 版 次	A0	
DELIVERY DATE 送样日期	2024 年 06 月 06 日	
PREPARED BY 承 办	殷飞杰	
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APPROVED BY 核 准	肖 汉	
Customer Approved 客 户 承 认		
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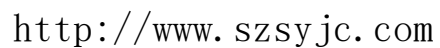
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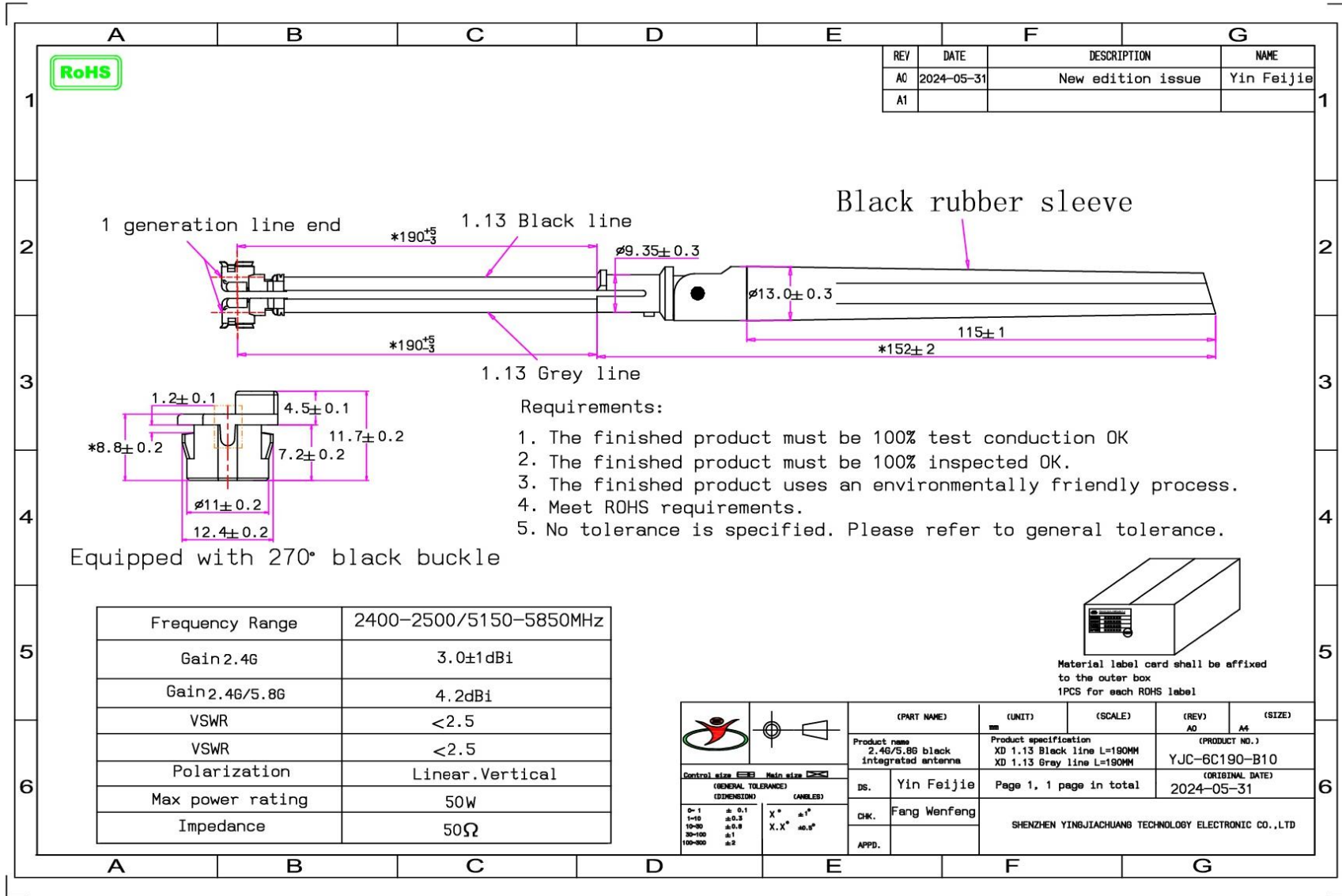
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履历表:

[illegible]



Antenna plan:





Antenna technical parameters and environmental testing:

Electrical technical parameter			
Mechanical Specifications		Mechanical Specifications	
Frequency Range	2400-2500/5150-5850 MHz	Antenna Color	Black
VSWR 2.4G	<2.5	Input connector	XD
VSWR 2.4G/5.8G	<2.5	Wire length	190mm
Input Impedance	50 Ω	Working Temperature	-20℃~+70℃
Direction	All	Working Humidity	20%~80%
Gain 2.4G	3.0±1dBi		
Gain 2.4G/5.8G	4.2dBi		

Environmental performance test:

Project	Test condition	Standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows: 1. Temperature is - 30 °C ~ + 80 °C 2. Relative humidity of 45% to 45% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical performace is normal
High and low temperature test	Between 70 °C and -20 °C for 5 loops, then 1-2 h under normal conditions, check the appearance quality.	Size should meet the requirements and meet the performance of mechinery and electric.
Constant damp and hot resistance test	95 + / - 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	Size should meet the requirements and meet the performance of mechinery and electric.
vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times	Electrical and mechanical performace is normal
Fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical performace is normal



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天线实物图:



天线性能测试图:



2D、3D 测试数据(2.4G/5G):

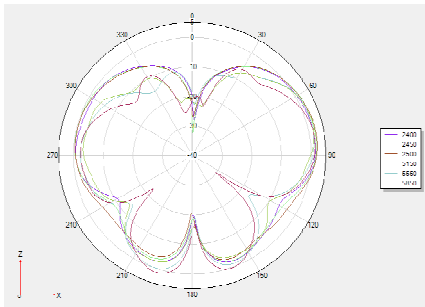
Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	72.39	2.29
2410MHz	73.71	2.13
2420MHz	72.28	2.24
2430MHz	72.95	2.19
2440MHz	72.28	2.22
2450MHz	75.80	2.65
2460MHz	72.61	2.35
2470MHz	72.17	2.82
2480MHz	71.80	2.88
2490MHz	74.91	2.59
2500MHz	73.43	2.88
5150MHz	64.57	2.94
5250MHz	64.71	3.00
5350MHz	59.98	2.77
5450MHz	64.27	3.14
5550MHz	64.71	3.01
5650MHz	63.83	3.20
5750MHz	61.09	2.84
5850MHz	61.94	2.80



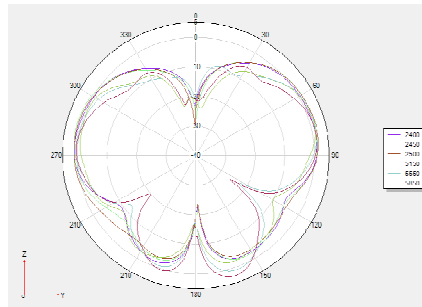
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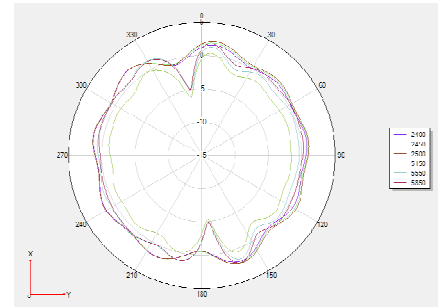
Phi 0 2D 图:



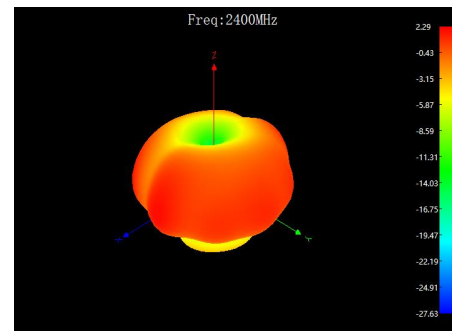
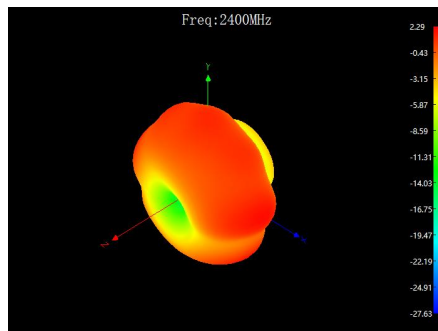
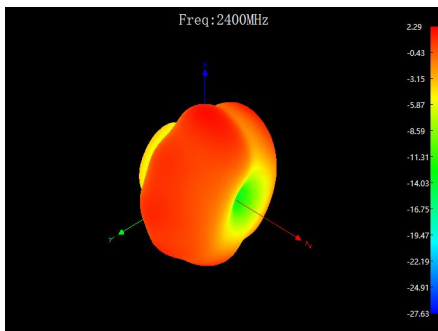
Phi 90 2D 图



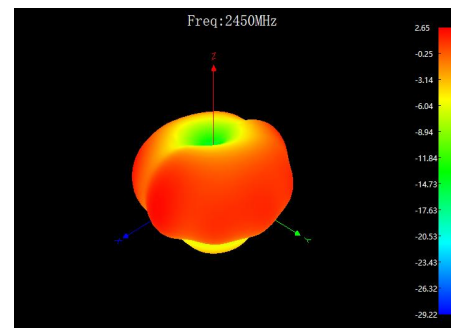
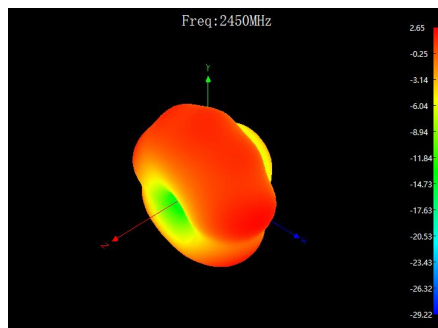
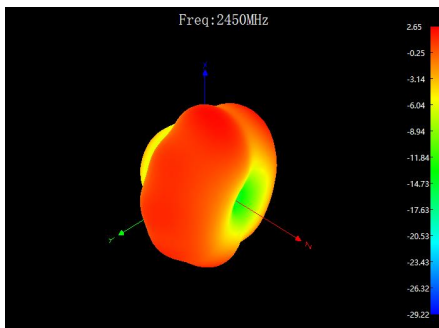
Theta 90 2D 图



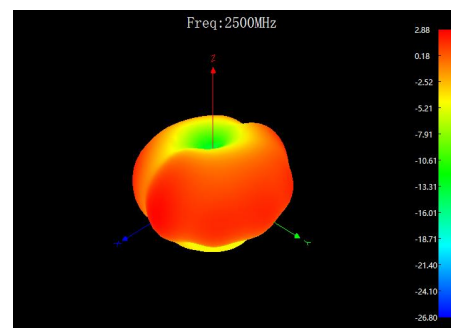
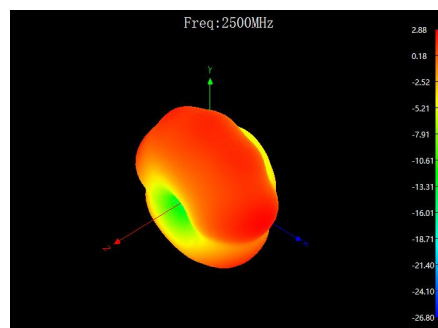
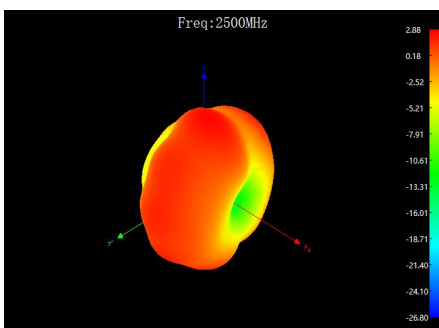
3D 2400:



3D 2450:



3D 2500:

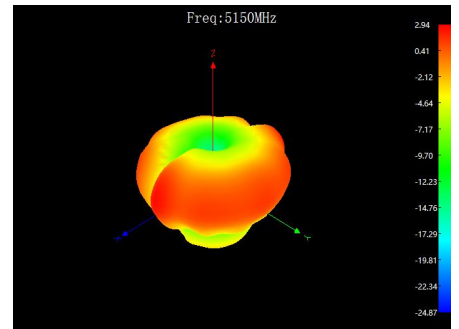
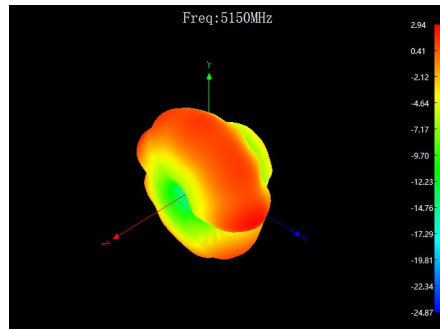
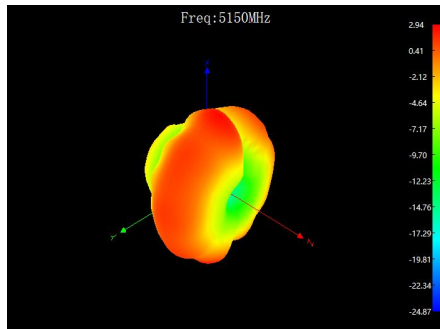




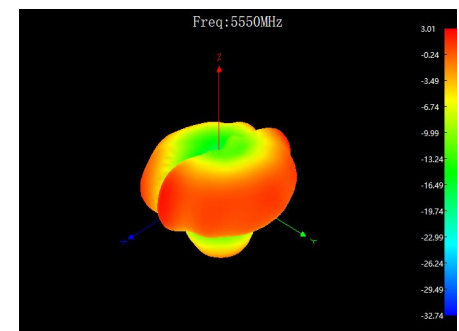
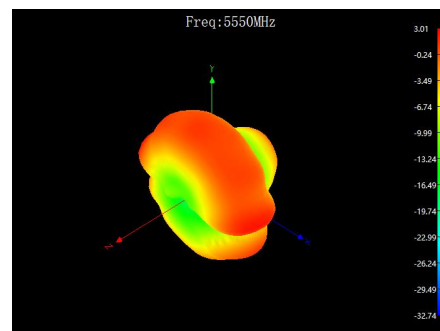
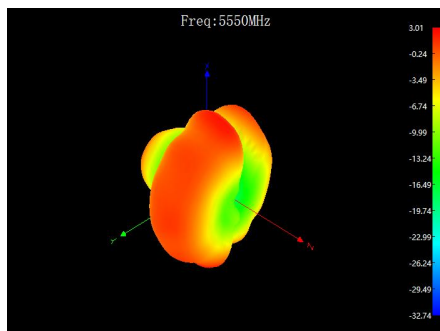
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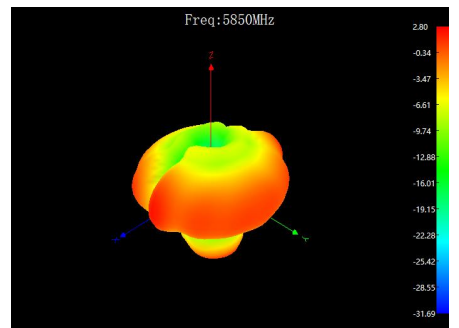
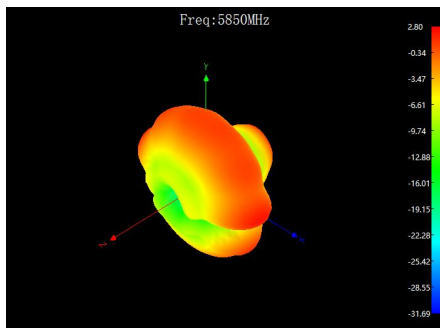
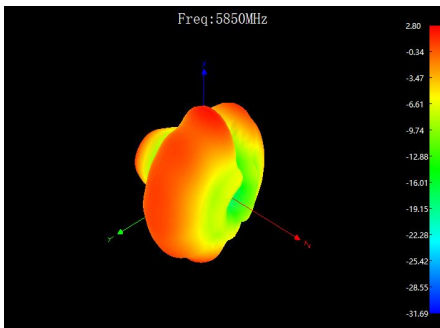
3D 5150:



3D 5550:



3D 5850:





Shenzhen Yingjia Chuang electronic technology Co., LTD
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Material RoHS conformity declaration form

This is to certify that the delivery to your company's components, raw materials, auxiliary materials used and the additives in the production engineering are accord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EU)

About components used raw materials, packaging materials, auxiliary materials and additives used in the production process such as composition of the report is as follows:

Component /Part Name	Material Composition	ICP report #	Test Org.	Test Date	Content of harmful substances (ppm)						PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
Plastic parts	TPEE	CANEC23000634202	SGS	23/03/13	ND	ND	ND	ND	ND	ND	PASS
	PC +PBT	CANEC23000452601	SGS	23/03/02	ND	ND	ND	ND	ND	ND	PASS
	PC	SZXPC24000015502	SGS	24/01/09	ND	ND	ND	ND	ND	ND	PASS
PCB	PCB	SHAEC23017333402	SGS	23/10/31	ND	12	ND	ND	ND	ND	PASS
Wire rod	Coaxial cable	CANEC24002746206	SGS	24/02/23	ND	ND	ND	ND	ND	ND	PASS
Eco-friendly tin wire	Eco-friendly tin wire	SZXEC23001647204	SGS	23/07/28	ND	63	ND	ND	ND	ND	PASS
terminal	CPhosphor bronze	CANEC24000977302	SGS	24/01/22	ND	6	ND	ND	ND	ND	PASS
	Gold coating	A2230400553101001E	CTI	23/08/12	ND	ND	ND	ND	ND	ND	PASS
	Rubber core	ETR23705931	SGS	23/08/04	ND	ND	ND	ND	ND	ND	PASS