



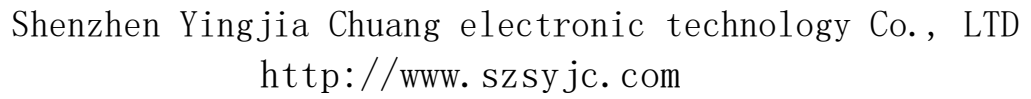
Shenzhen Yingjia Chuang electronic technology Co., LTD

<http://www.szsyjc.com>

APPROVAL SHEET

CUSTOMER NAME		
CUSTOMER P/N		
PART NAME	2.4G/5G black FPC built-in antenna, 1.13 Black line L=205MM	
P/ N	YJC-6N205-B15	
APPROVAL REV.	A1	
DELIVERY DATE	August 29, 2024	
PREPARED BY	Yin Feijie	
CHECKED BY	Fang Wenfeng	
APPROVED BY	Chauhan	
Customer Approved		
Prepared By	Checked By	Approved By

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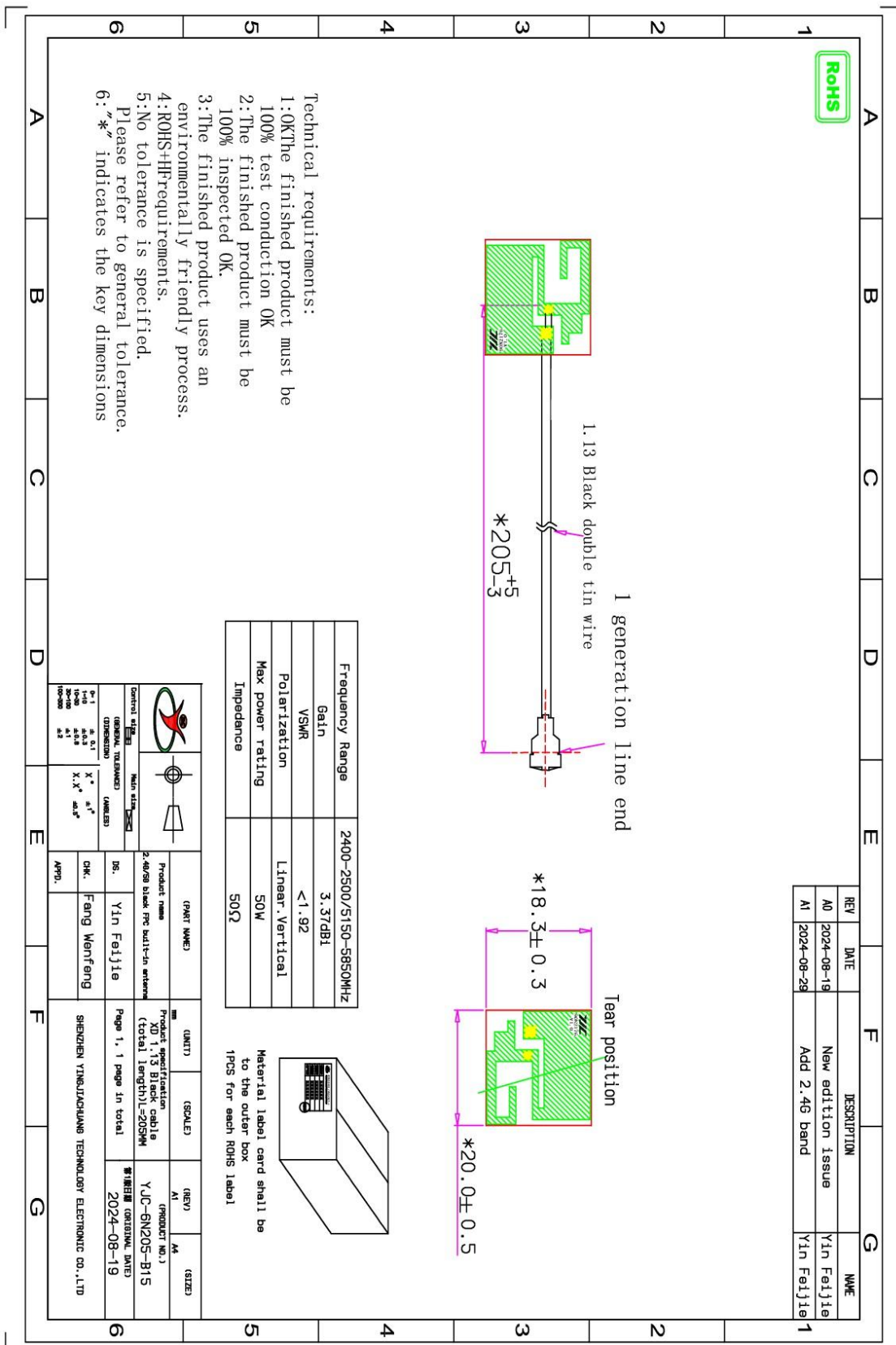


resume:

edition	Content of change and reasons for change	date	release
A0	Initial release	August 19th, 2024	
A1	Add 2.4G band	August 29, 2024	



Antenna plan:





Antenna technical parameters and environmental testing:

Electrical technical parameter

Electrical Specifications		Mechanical Specifications	
Frequency Range	2400-2500/5150-5850MHz	Wire Color	Black
VSWR	<1.92	Input connector	XD
Input Impedance	50 Ω	Wire Length	205MM
Direction	All	Working Temperature	-20℃~+70℃
Gain	3.37dBi	Working Humidity	20%~80%

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 ℃ ~ + 80 ℃ 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 ℃ and -20 ℃ 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 ℃. 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



Antenna diagram:



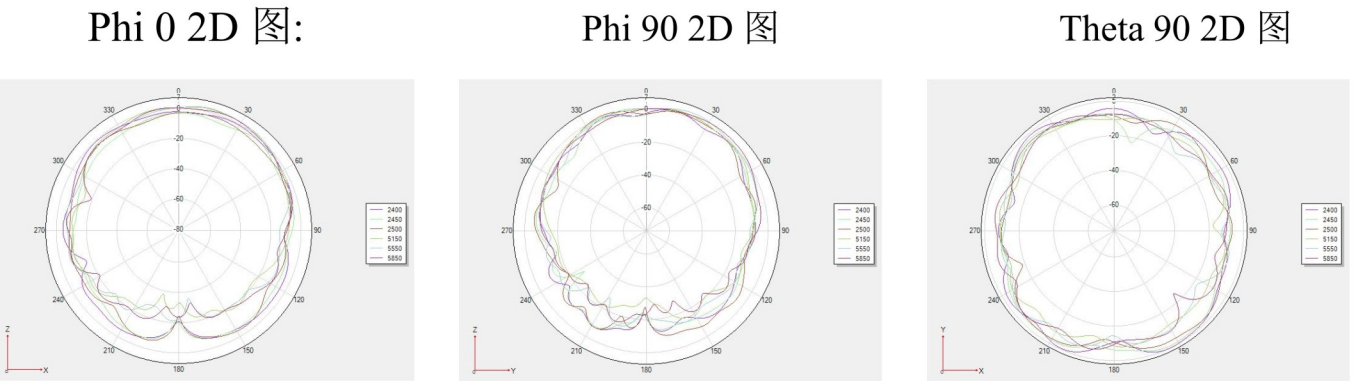
Antenna performance test diagram:



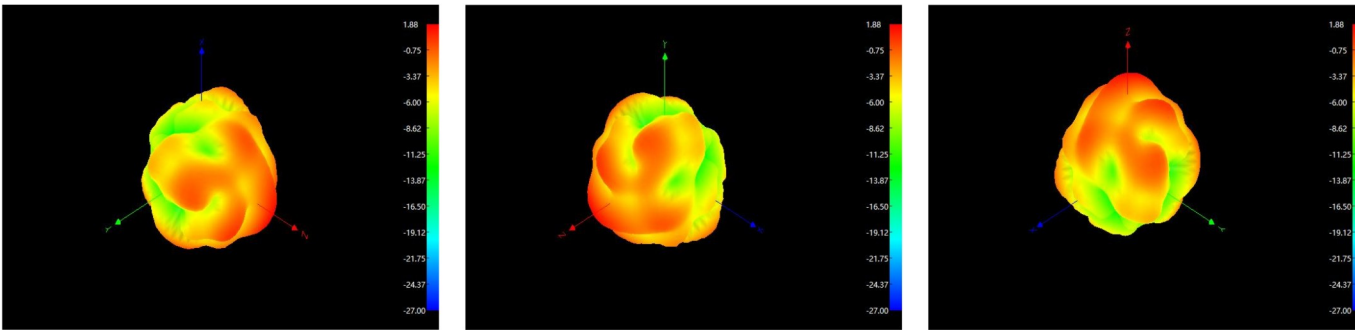


2D and 3D(2.4G/5G) test data:

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	56.98	1.88
2410MHz	58.35	1.82
2420MHz	58.15	1.85
2430MHz	55.41	1.73
2440MHz	57.46	1.96
2450MHz	59.77	1.74
2460MHz	58.50	1.89
2470MHz	56.39	1.75
2480MHz	55.24	1.84
2490MHz	55.19	1.81
2500MHz	56.11	1.95
5150MHz	47.28	3.15
5250MHz	49.32	3.04
5350MHz	47.60	3.26
5450MHz	47.72	3.30
5550MHz	48.52	3.19
5650MHz	49.42	3.37
5750MHz	45.50	3.34
5850MHz	45.64	3.26

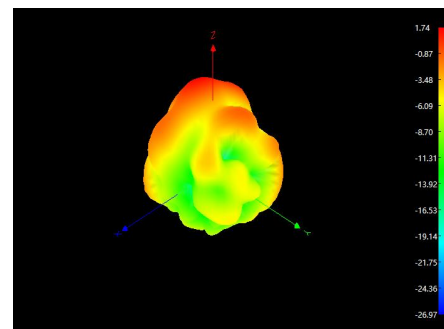
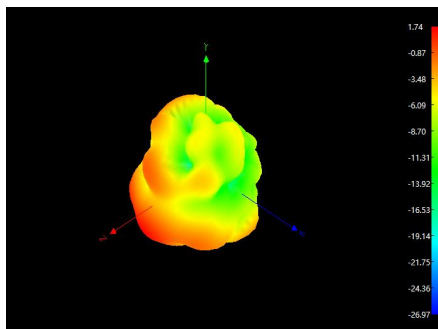
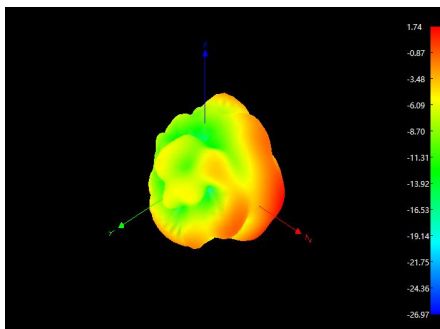


3D 2400:

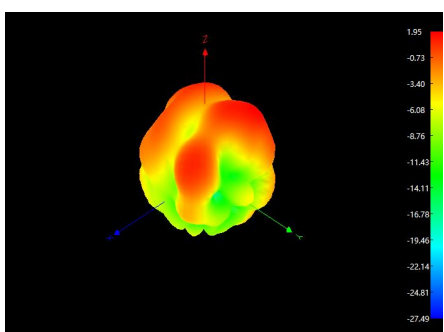
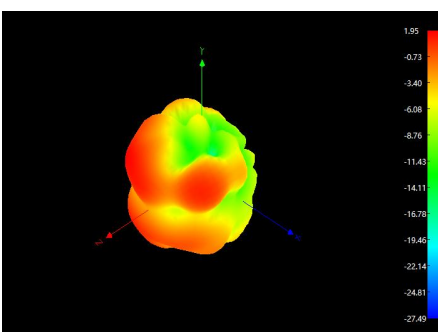
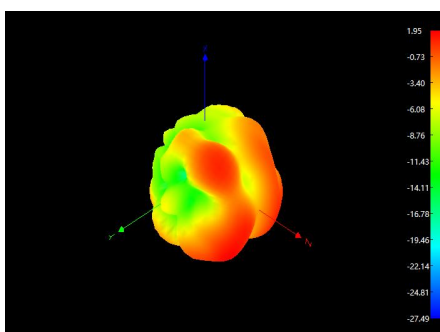




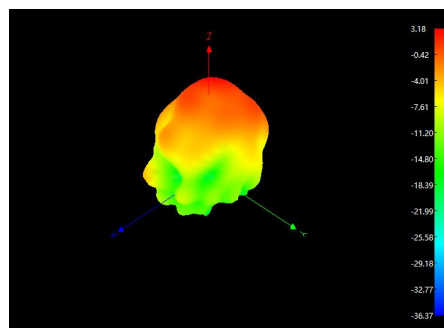
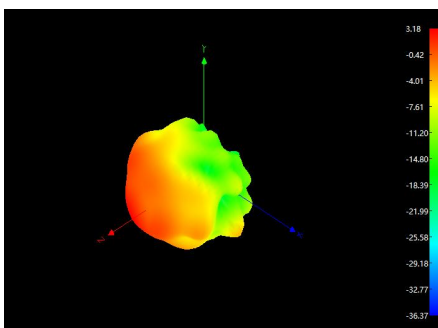
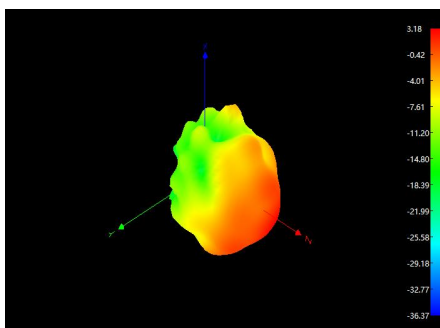
3D 2450:



3D 2500:

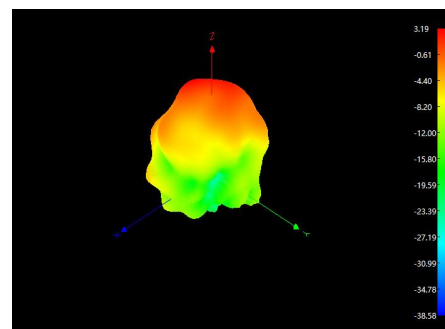
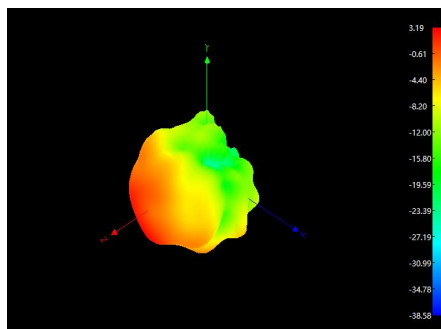
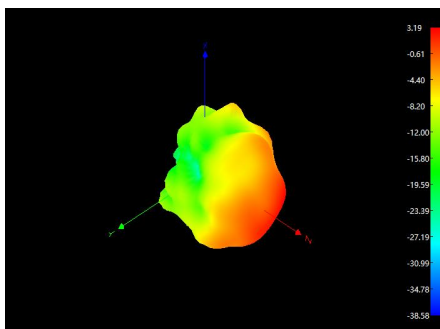


3D 5150:

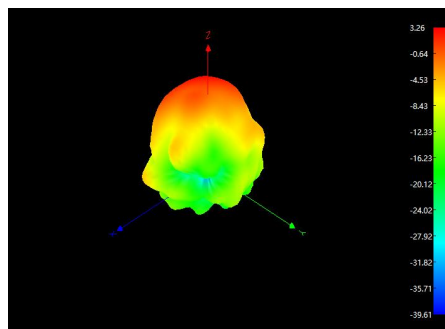
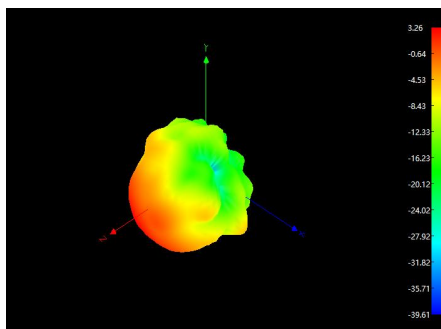
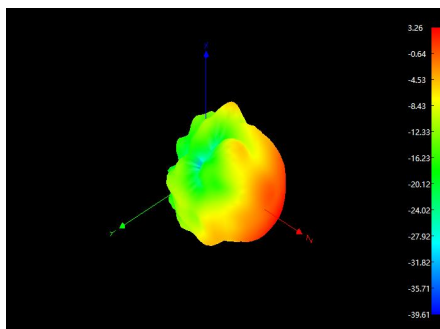




3D 5500:



3D 5850:





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
Wire rod	Coaxial cable	CANEC24002746206	SGS	24/02/23	ND	ND	ND	ND	ND	ND	PASS
Eco-friendly tin wire	Eco-friendly tin wire	SHAEC24006459102	SGS	24/04/10	ND	78	ND	ND	ND	ND	PASS
terminal	Phosphor bronze	CANEC24000977302	SGS	24/01/22	ND	6	ND	ND	ND	ND	PASS
	Gold coating	A2240410234101001E	CTI	24/07/16	ND	ND	ND	ND	ND	ND	PASS
	Rubber core	A2240126395101003E	CTI	24/03/16	ND	ND	ND	ND	ND	ND	PASS
FPC	Printing ink	A223046640210102ER1	CTI	23/09/13	ND	ND	ND	ND	ND	ND	PASS
	3M9471LE	SHAEC23021627701	SGS	23/12/27	ND	ND	ND	ND	ND	ND	PASS
	Copper foil	A2240082746101006E	CTI	24/03/01	ND	ND	ND	ND	ND	ND	PASS