Antenna technical parameters and environmental test:

Electrical technical parameters			
Electrical performance index		Electrical Specifications	
frequency range	2400-2500	Frequency Range	5150-5850MHz
voltage standing-wave ratio	< 1.92	VSWR	< 1.92
input impedence	50 Ω	Input Impedance	50 Ω
direction	omnidirectional	Direction	All
gain	2.56dBi	Gain	2.73dBi
Mechanical specifications		Mechanical Specifications	
Antenna color	white	Antenna Color	WHITE
Interface form	OPEN	Input connector	OPEN
Wire length	95 mm	Cable length	95 mm
working temperature	-20℃~+70℃	Working Temperature	-20℃~+70℃
Working humidity	20%~80%	Working Humidity	20%~80%

Environmental performance test:

project	test condition	specifications
Storage environment	Test temperature, humidity and air pressure are as follows if not specified: 1. The temperature is-30℃~+80℃ 2. Relative humidity is 45%-85% 3. The air pressure is 86kpa-106kpa	Electrical and mechanical performance is normal
thermocycling	Five cycles were performed between 70℃ and-20℃, followed by normal conditions 1-2H, check the appearance quality.	The size shall meet the requirements and shall meet the mechanical and electrical performance

It's constant humid heat test	Relative humidity 95±3%, test temperature: 40℃. After 2H action, The electrical properties of the sample shall be measured within 5min after the sample is removed, and the sample shall be normal After 1-2H, check the appearance quality	The size shall meet the requirements and shall meet the mechanical and electrical performance
vibration test	Frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, Scan frequency cycle: 30 times	Electrical and mechanical performance is normal
fall-down test	The 1M high altitude was freely dropped three times in the direction of mutually perpendicular axes	Electrical and mechanical performance is normal

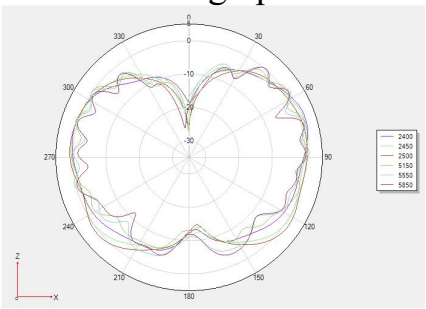
Antenna physical diagram:

Antenna performance test diagram:

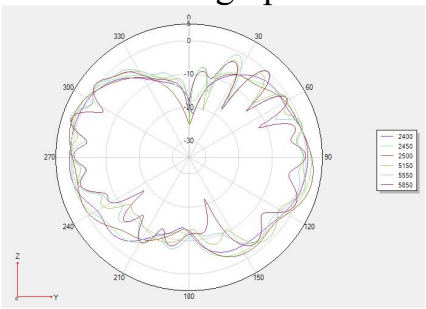
2D,3D(2.4G/5G) Test data:

Frequency(MHz)	Efficiency (%)	Gain.(dBi)
2400MHz	61.34	1.84
2410MHz	63.14	1.88
2420MHz	62.38	1.79
2430MHz	62.69	2.03
2440MHz	66.33	2.11
2450MHz	67.15	2.05
2460MHz	66.38	2.06
2470MHz	68.27	2.07
2480MHz	67.28	2.56
2490MHz	60.18	2.33
2500MHz	63.42	2.52
5150MHz	54.28	2.00
5250MHz	53.67	2.12
5350MHz	51.34	2.15
5450MHz	51.58	2.24
5550MHz	52.67	2.73
5650MHz	56.19	2.41
5750MHz	46.14	2.46
5850MHz	46.11	2.50

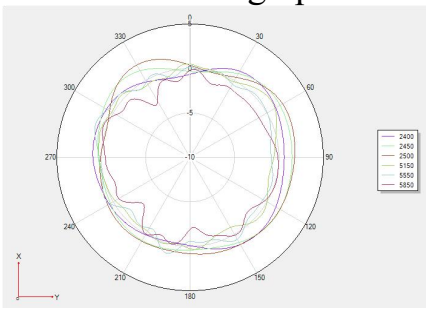
Phi02D graph:



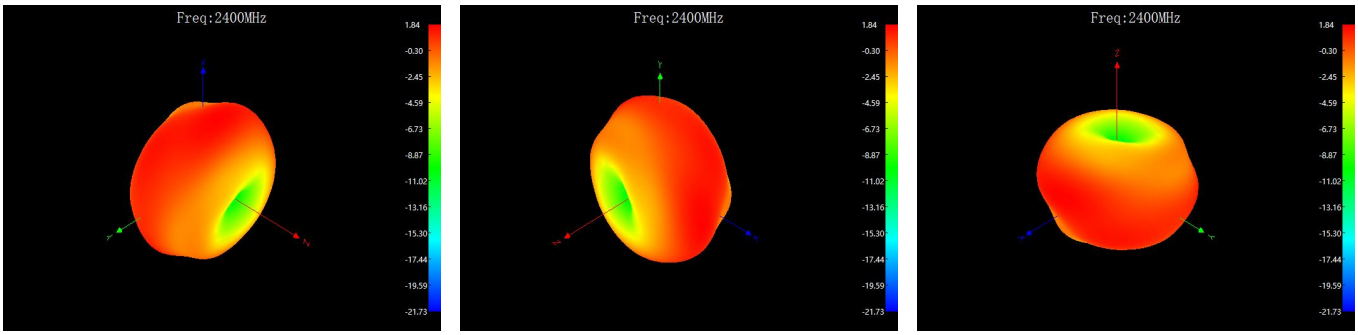
Phi902D graph



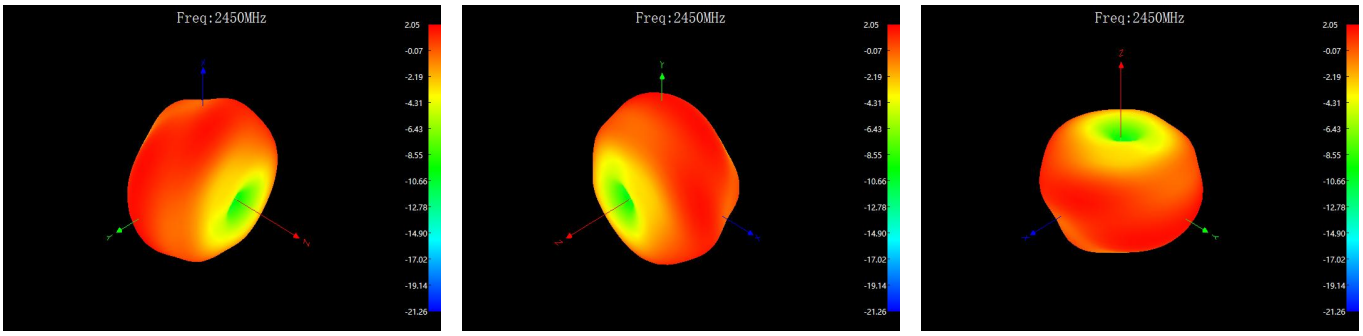
Theta902D graph



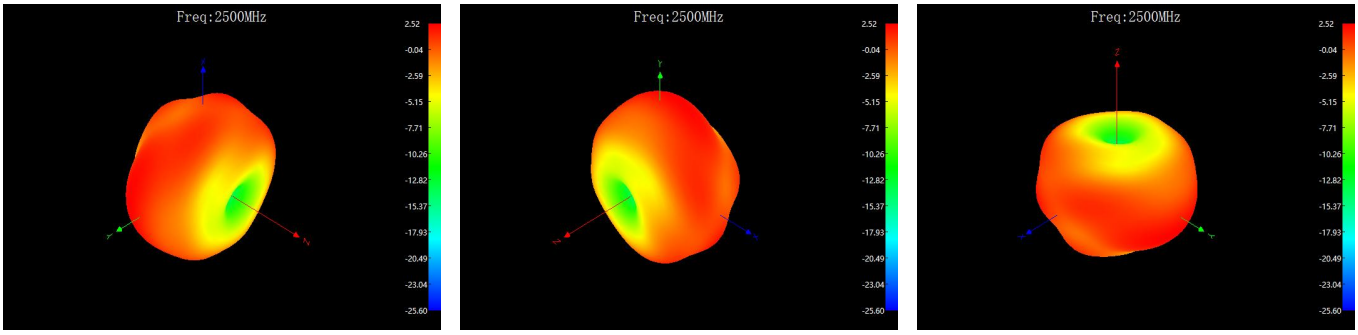
3D 2400:



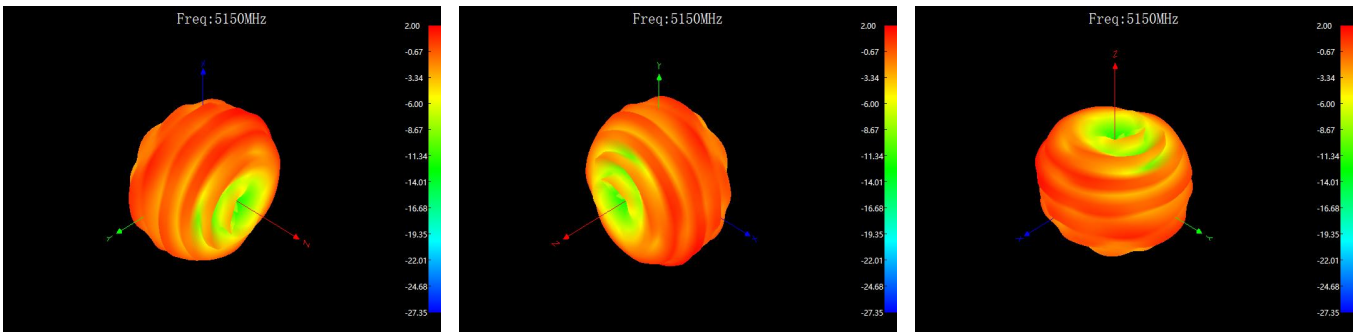
3D 2450:



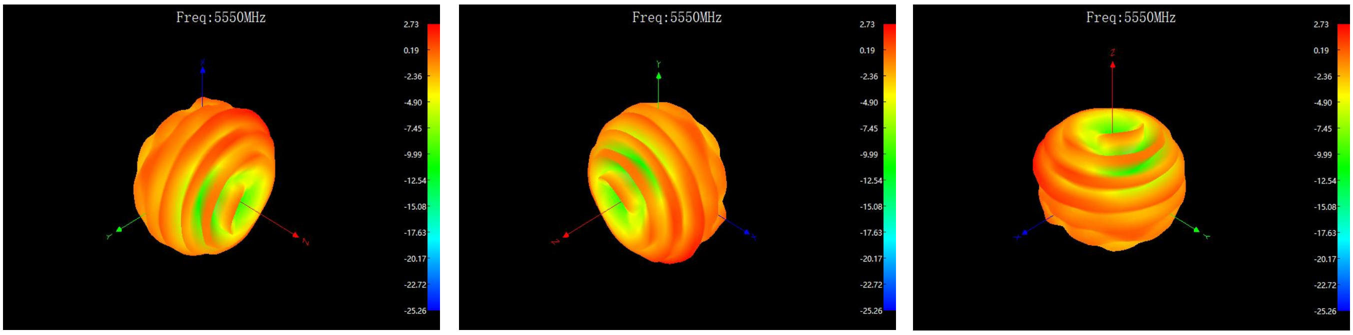
3D 2500:



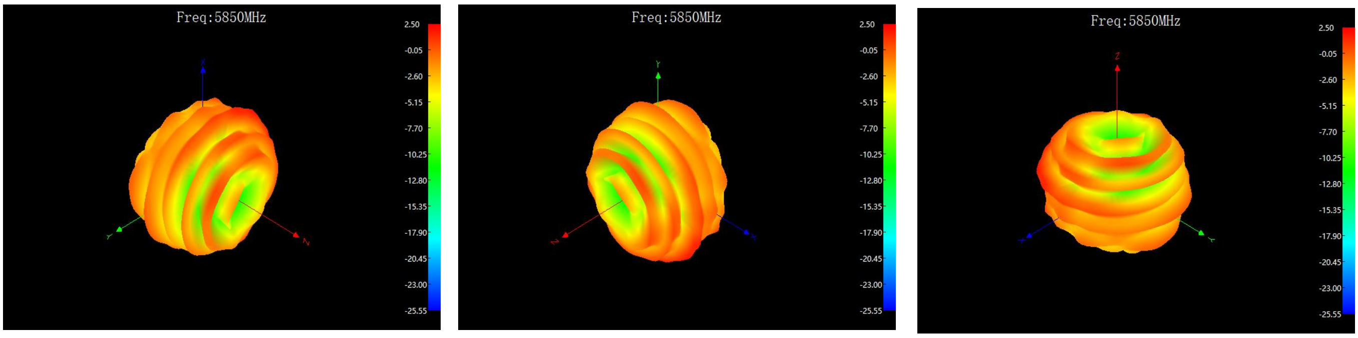
3D 5150:



3D 5550：



3D 5850：



ROHS material control report

We hereby certify that the raw materials used in the components and auxiliary materials delivered to your company, as well as the additives used in the production process, comply with the environmental requirements of the RoHS Directive on the use of hazardous substances (RoHS Directive 2011/65/EC)

The composition of raw materials used for components and auxiliary materials, packaging materials and additives used in the production process is reported as follows:

Composition material name Component /Part Name	Composition material Material Composition	ICP report number ICP report #	Testing agency Test Org.	testing time Test Date	Contaminant content (ppm)						Are they qualified? PASS?
					Cd	Pb	Hg	Cr 6+	PBB	PBDE	PASS
plastic parts	PC	SZXML2100307501	SGS	21/02/08	ND	ND	ND	ND	ND	ND	PASS
	TPEE	CE/2020/823692	SGS	20/08/21	ND	ND	ND	ND	ND	ND	PASS
PCB	PCB	CANML2020258402	SGS	20/11/24	ND	9	ND	ND	ND	ND	PASS
Environmentally friendly tin foil	Environmentally friendly tin foil	SZXEC2002413008	SGS	20/10/13	ND	42	ND	ND	ND	ND	PASS
wire stock	Teflon coaxial cable	CANEC2102460402	SGS	21/03/02	ND	10	ND	ND	ND	ND	PASS
EVA sponge	EVA polystyrene foam	CANEC2023167811	SGS	21/01/04	ND	8	ND	ND	ND	ND	PASS