

Yuanchuangxing Electronics (Shenzhen) Co., Ltd.

Yuanchuangxing electronics (Shenzhen)CO.,LTD.

client's name:	General
Client model:	
Customer part number:	
Customer specification description:	
Yuanchuangxing material number:	YCX08W-W704-SMA
Yuanchuangxing specification description:	White blade 2.4G5DBI SMA male and female pin antenna

Specifications

Confirm signature and seal					
Yuan Chuang Xing confirmed			client confirmation		
Sample preparation review	Approval Verification Review Approval				
Zou Yangchen	Wang Chunjiang				
Yuanchuangxing signature cover sheet			Customer signature cover sheet		
Date	2023-2-13		date	2023-2-13	

[illegible]

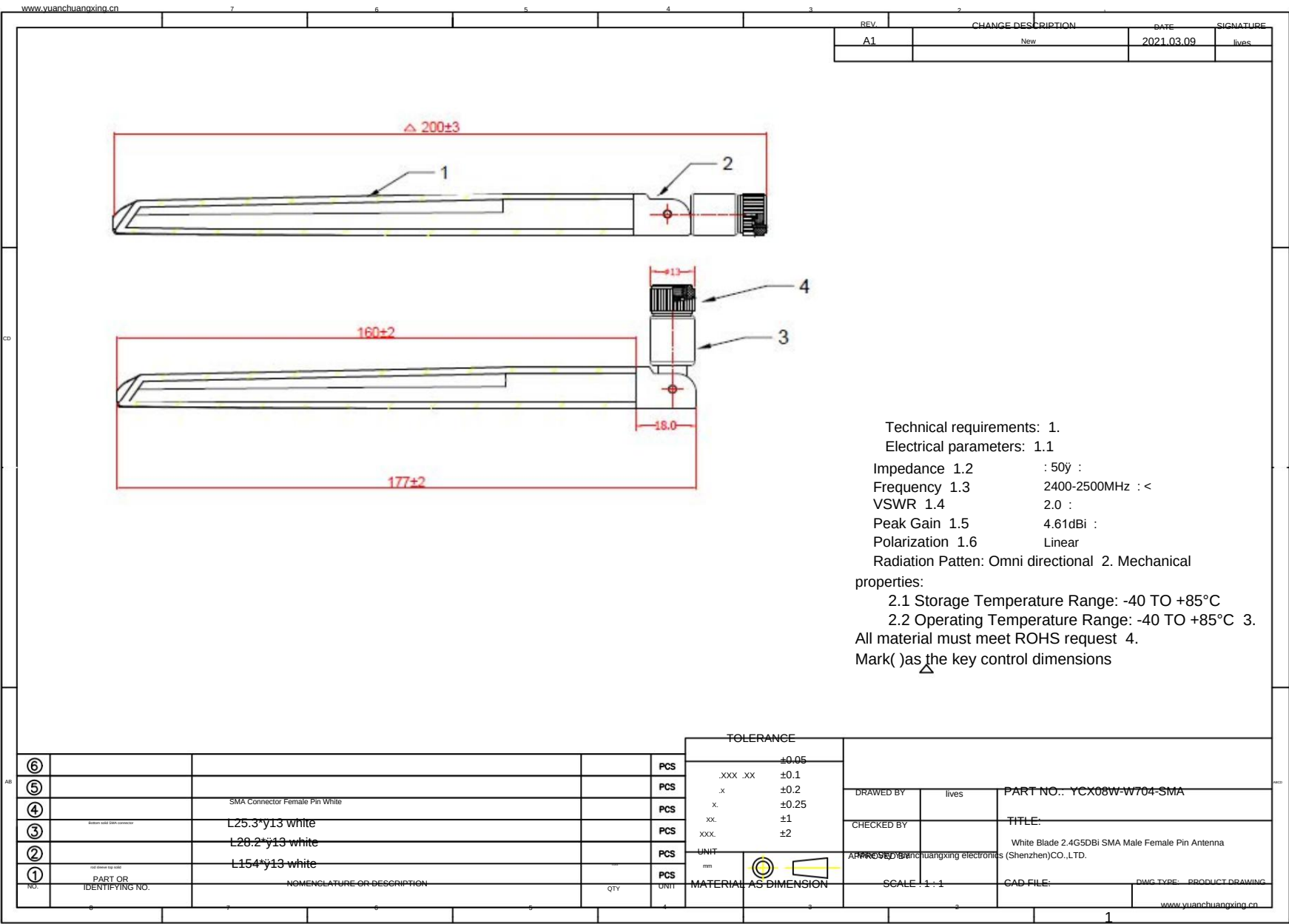
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4. Product drawings

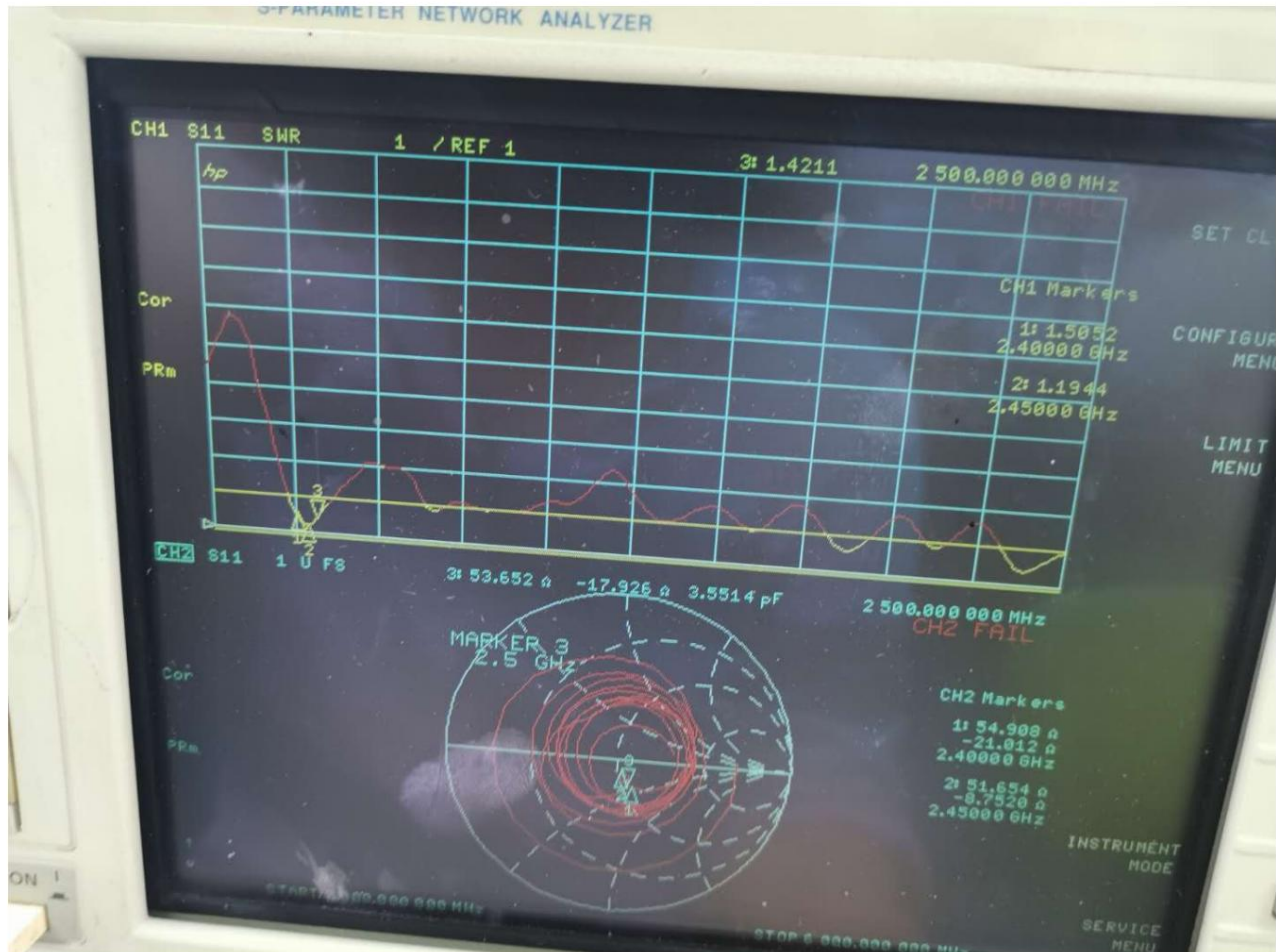


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5. Passive performance test parameters

Frequency(GHz)	2.4	2.45	2.5
VSWR	1.58	1.19	1.42



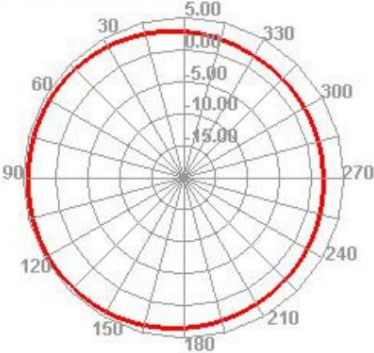
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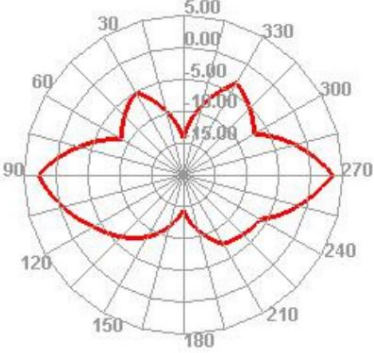
6. 2D and 3D performance graphs

Passive Test For WiFi2.4G				
Freq (MHz)	Effi (%)	Gain (dBi)		
2400	80	4.61		
2450	80	4.34		
2500	78	4.60		

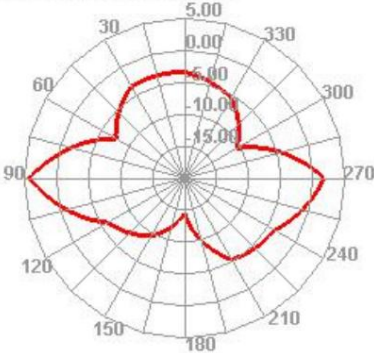
2400.000MHz H



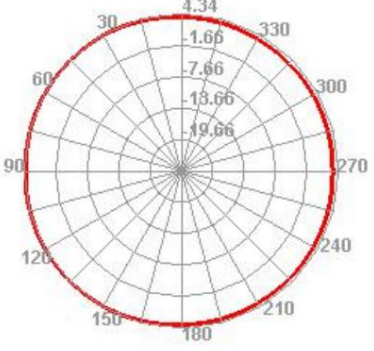
2400.000MHz E1



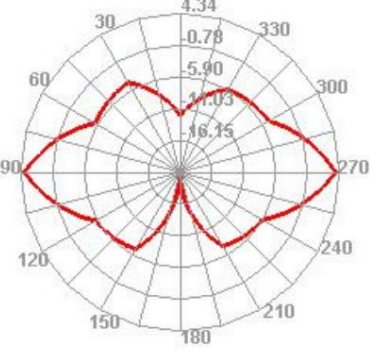
2400.000MHz E2



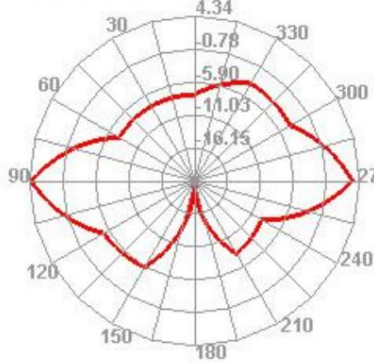
2450.000MHz H



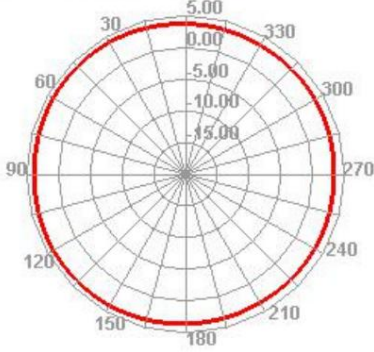
2450.000MHz E1



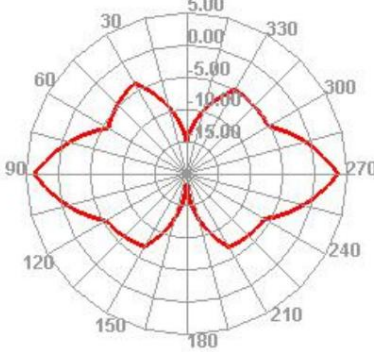
2450.000MHz E2



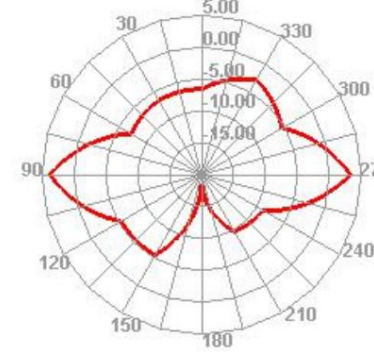
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



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7. Electrical performance parameters

Electrical parameters		
Frequency Range		2.4GHz-2.5GHz
input resistance		50ÿ
VSWR		<2.0 Control sample test pattern
gain	2.4G-2.5G	5±1dBi
	5.15G-5.85G	
Polarization vertical polarization		
Radiation direction is omnidirectional		
Connection method SMA		
Mechanical parameters		
see line length		
Sustainability		
Coaxial Cable RG178 Brown		
Salt spray test 24H		
Environmental parameters		
Operating temperature		-40~85ÿ

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8.2 High and low temperature thermal shock

Test/test items High and low temperature thermal shock	Inspection order number
Product Name/Specification 2.4G- 5dBi White SMA Antenna	Test Quantity: 5PCS
Inspection date: 2023-2-10	Completion date: 2023-2-11
Test/inspection equipment: 1. High and low temperature alternating humid heat box 2. 8753ES network analyzer	
Test/inspection conditions: -30°C (2H)---interval 80°C (2H), 6 cycles, 24 hours in total;	
test results	
Judgment criteria: 3. Metal surface coating should be free of peeling, cracks, wrinkling, separation, etc.; non-metallic parts should not have discoloration, cracking, deformation, degumming, etc.; 4. The electrical test meets the standards; the voltage standing wave ratio test is qualified.	
Test/inspection judgment: ☒ Passed	☐ Unqualified ☐ No judgment
Test: Li Chunqiang	Reviewer: Wang Chunjiang

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Structural component sample inspection			
specification The structural component sample inspection results shall include the following contents:			
Category	Specification	Category	Specification item
y Appearance & Specification Inspection	item 1. Check whether there are water marks, air marks, shrinkage, whitening, scratches, bruises, material flowers, oil stains, etc. on the surface	y reliability performance test	1. Storage temperature range
	2. Check the corners, glue pillars, limits, orifices, panes, slots, etc. for batch peaks, uneven glue movement, broken pillars, edge collapse, sprue cut flat, and material brittleness, etc.		2. Operating temperature range
			3. Smoldering
	3. Screw in the corresponding specification screws, and there should be no whitening, bursting		4. Drop test
	or sliding teeth. 4. Check the surface treatment (oil injection, silk screen printing, bronzing color, silk screen content, processing effect: ySilk screen bronzing parts---whether there are defects, cracks, etc. Tooth, fat, ghosting, uneven thickness and missing; y Oil spray bronzing parts---whether the oil color is uniform, yin and yang, graining, scratches, variegated, burnt and impurities, etc., whether the silk screen and bronzing positions are There are displacement, deflection and misalignment		5. 3M gummed paper/white grid/rubber/alcohol (75%~80% concentration) test (4 items in total, for silk screen printing materials)
	Test result: qualified		Test result: qualified
	Remark		Note 1.
yDimensions & mechanical properties	1. Diagram size inspection (according to the tolerance range, focus on checking that the CPK has a mark or indicates the size)	yMaterial & Packaging, etc. yy Others	Confirmation of material composition report
	2. Flatness test and other accessories to confirm the tightness 3. Lens, light		2. Packaging method and other precautions:
	guide column light transmission test confirmation		
	Test result: qualified		Test result: qualified
	Remark		Remark
Sample test results: qualified		Inspection person in charge: Zheng Yunxia	