

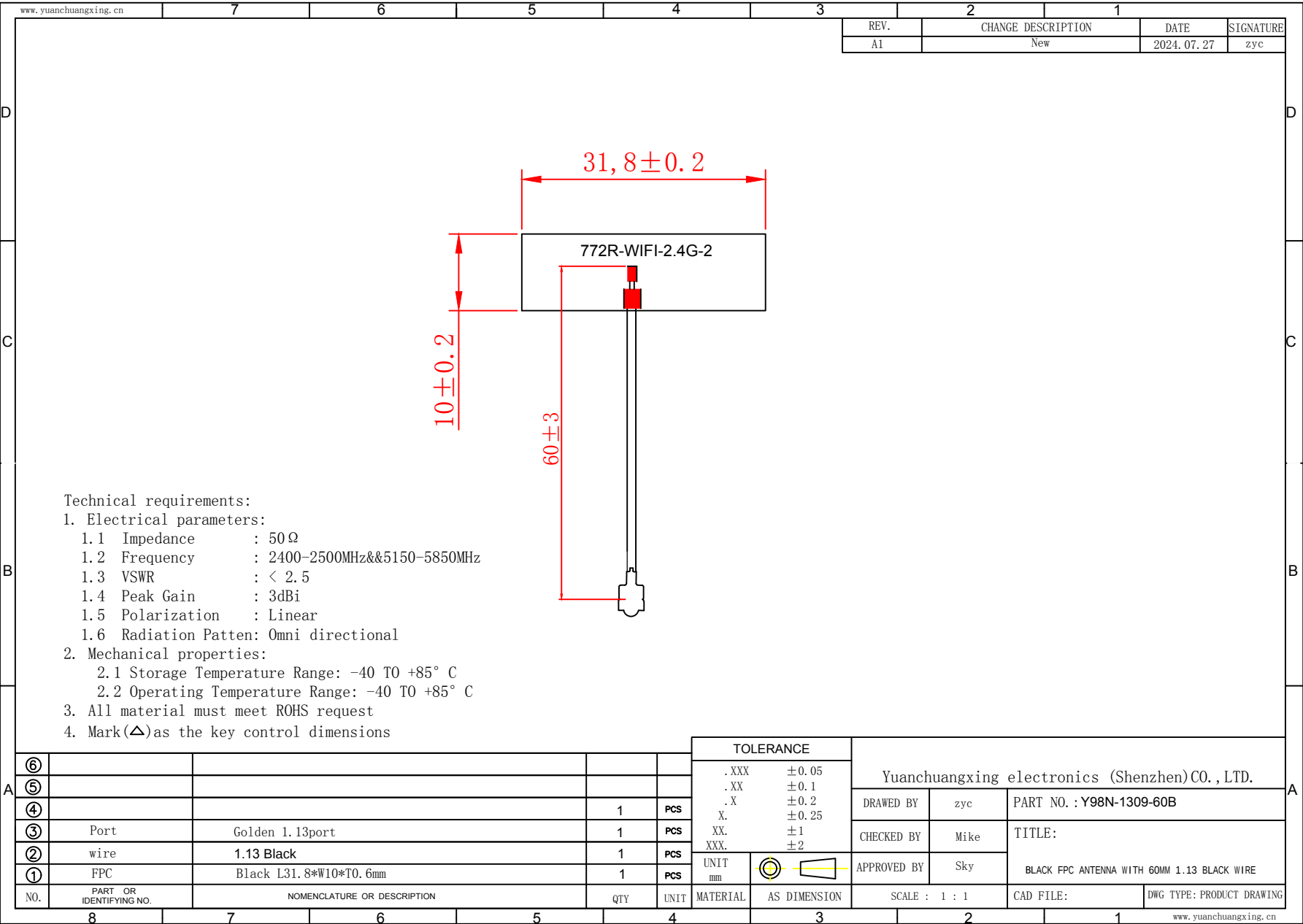
Document development / revision / abolished CV

[illegible]

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4、 product drawing



5. passive performance test parameters

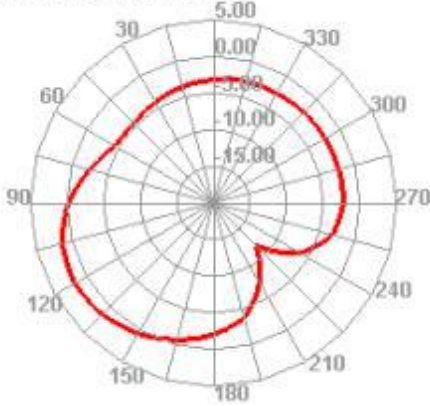


6, 2D and 3D performance Fig

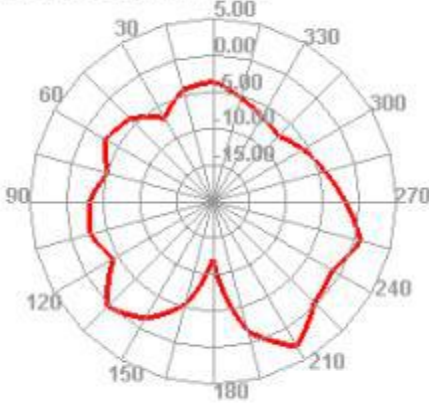
Passive Test For WiFi

Freq (MHz)	Effi (%)	Gain (dBi)		
2400	53	3.42		
2450	54	3.10		
2500	54	3.17		
5150	62	2.80		
5500	67	2.91		
5850	66	2.96		

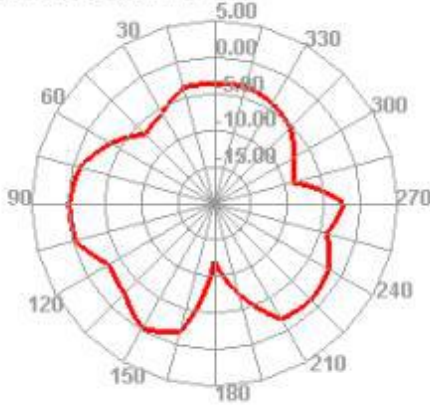
2400.000MHz H



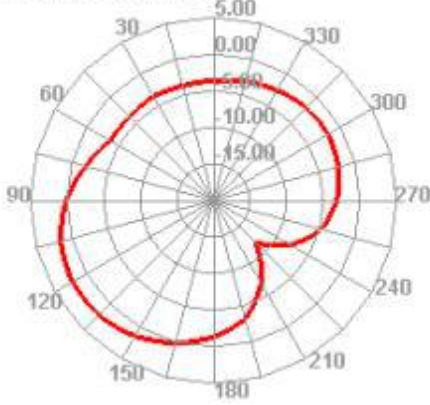
2400.000MHz E1



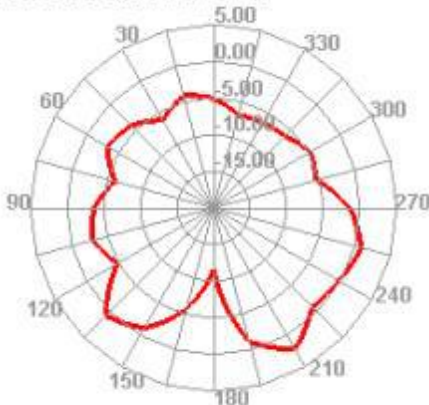
2400.000MHz E2



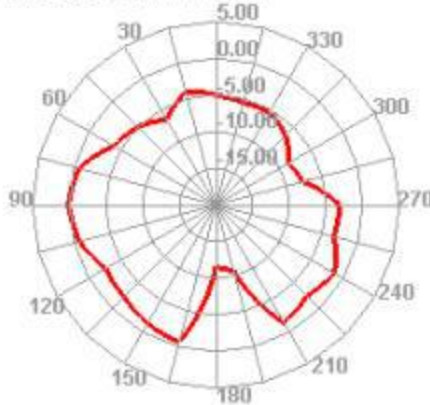
2450.000MHz H



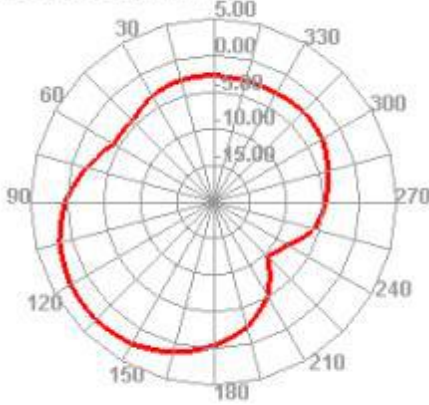
2450.000MHz E1



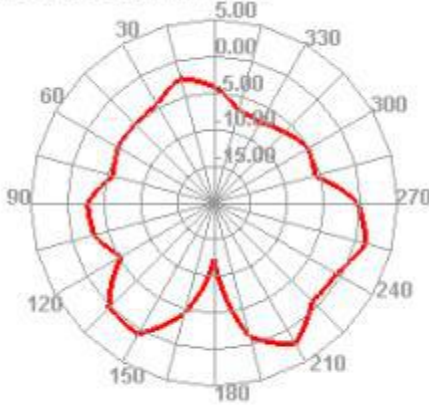
2450.000MHz E2



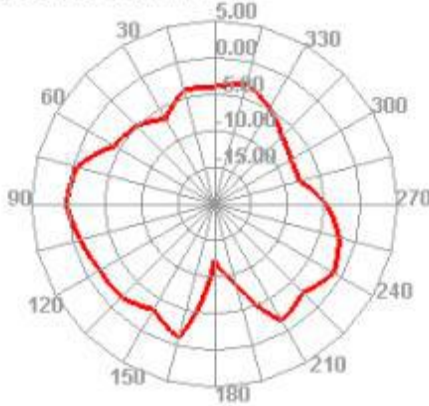
2500.000MHz H



2500.000MHz E1

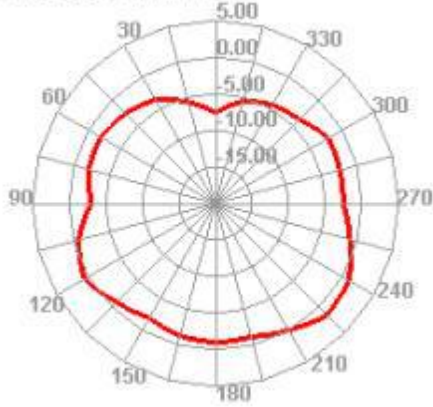


2500.000MHz E2

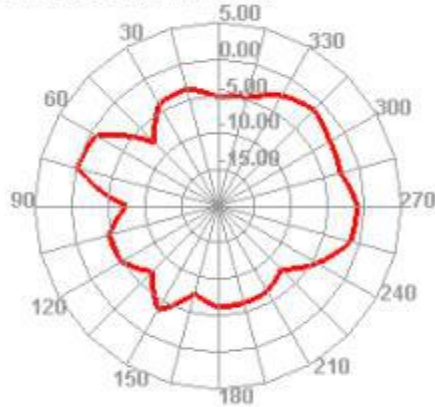


6, 2D, and 3D performance Fig

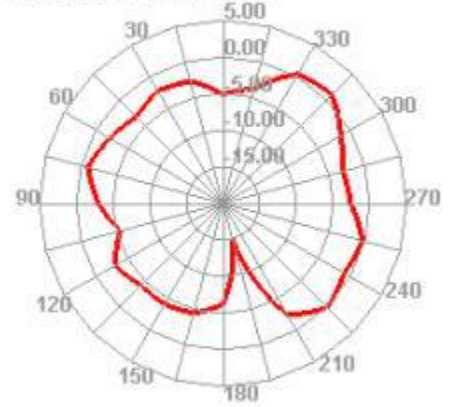
5150.000MHz H



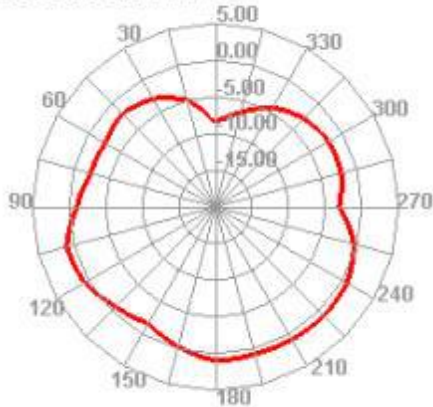
5150.000MHz E1



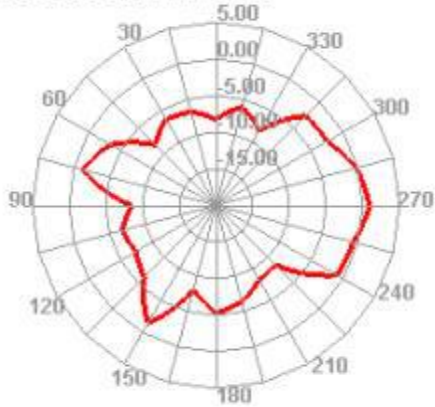
5150.000MHz E2



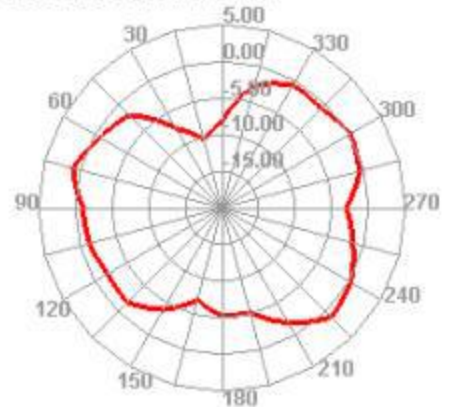
5500.000MHz H



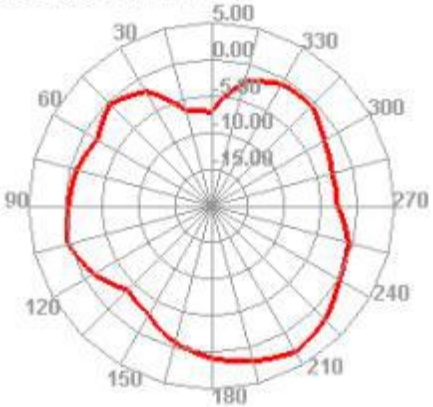
5500.000MHz E1



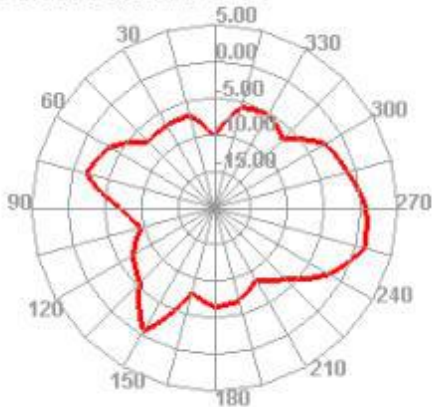
5500.000MHz E2



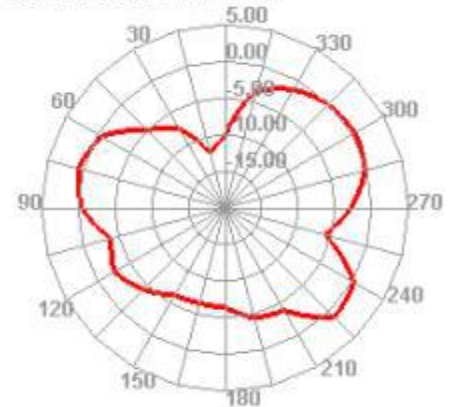
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



7. Electrical performance parameters

Electrical parameters	
frequency range	2.4GHz-2.5GHz&&5.15-5.85Ghz
input impedance	50Ω
standing-wave ratio	<2.5 Test figure of the control sample
gain	2.4G Maximum antenna gain --3.42dBi 5.8G Maximum antenna gain --2.96dBi
Polarization mode	vertical polarization
radiation direction	omnidirectional
attended mode	IPEX
Mechanical parameters	
See line long	
maintenance energy	
coax	
Salt Spray Test	
enviromental parameter	
working temperature	-40~85℃

8. Reliability test report

8.1. Constant temperature and humidity test

Test / test items	steady temperature damp test	Inspection sheet number
Product name / specification	The WIFI dual-band antenna	Number of tests: 5 PCS
Date of inspection: 2024-07-21		Completion date: 2024-07-22
Test / inspection equipment: 1. Program-type constant temperature and humidity test box 2.8753 ES network analyzer		
Test / Inspection Conditions: 1. Test for 12H at constant temperature-40℃ 2. + 85 ° 65 ~ 70% RH test 12H, a total of 24 hours;		
end of test		
requirement: 1. No cracks and separation on the metal surface; the non-metallic part should not have discoloration, cracking, deformation, glue and other bad; 2. The electrical test meets the standard requirements; the voltage ratio test is qualified		
Test / inspection judgment: ☒ qualified ☐ unqualified ☐ is not determined		
Test: Li Chunqiang, audit: Wang Chunjiang		

8.2 Hot and cold shock of high and low temperature

Test / test items	High and low temperature hot and cold shock	Inspection sheet number
Product name / specification	The WIFI dual-band antenna	Number of tests: 5 PCS
Date of inspection: 2024-07-21		Completion date: 2024-07-22
Test / inspection equipment: 1. High and low temperature alternating wet heat box 2.8753 ES network analyzer		
Test / Inspection Conditions: -30℃ (2H) - -80℃ (2H) interval, 6 cycles, a total of 24 hours;		
end of test		
requirement: 3. The metal surface coating shall not be peeling, cracking, separation, etc.; the non-metallic part shall not have discoloration, cracking, deformation, bonding and other bad; 4. The electrical test meets the standard; the voltage wave ratio test is qualified.		
Test / inspection judgment: ☒ qualified ☐ unqualified ☐ is not determined		
Test: Li Chunqiang, audit: Wang Chunjiang		

Specification for sample inspection of structural parts			
The test results of the structural parts samples shall include the following contents:			
class	Specification project	class	Specification project
① appear ance & regulati ons The test	1, check the surface whether there is any water lines, air lines, shrinkage, white, scraping, touch injury, material flowers, oil traces, etc	③ Reliabili ty perfor mance test	1. Storage temperature range
	2, check whether there is batch peak, glue column, limit, hole, window, slot, uneven glue, broken column, edge collapse, water mouth shear flat, crisp material, etc		2. Operating temperature range
			3. Flame resistance
	3, attack the corresponding specifications of screws, can not have white, burst or slippery teeth		4. Drop test
	4. Check the surface treatment (oil injection, screen printing, bronzing color, screen stamping content, treatment effect: ① screen stamping- -whether there is incomplete, teeth, fat, weight, uneven thickness and leakage; ② oil stamping- - whether uniform oil color, Yin and Yang color, grain, scratch, color, burning and impurities, etc., screen printing and hot stamping position, whether there is deviation, deviation and mismatch		5.3M adhesive paper / white case / rubber / alcohol (75%~80% concentration) test (4 items, for screen printing oil injection materials)
	Inspection result: qualified		Inspection result: qualified
	remarks		remarks
② size & machi ne Equipme nt perform ance	1. Drawing size inspection (according to the tolerance range, focus on checking the CPK marked or specified size)	④ materia l quality & pack Wait for ⑤⑥	1. Confirmation of the material and composition report
	2, leveling test and other accessories to cooperate with the tightness confirmation		2. Packaging mode and other precautions:
	3, lens, light guide column light transmission test confirmation		
	Inspection result: qualified		Inspection result: qualified
	remarks		remarks
Sample test results: qualified inspection person in charge: Zheng Yunxia			