SPECIFICATIONS FOR APPROVAL

Customer Name: SHENZHEN ELECTRON TECHNOLOGY CO., LTD

Product Name:	WIFI Antenna	
Product Model:	NW2495	
Part Number:	LJF02-22050908-R0A	
Write By :	Huxuwen	
Issued Date:	2022-05-09	

CUSTOMER

ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVAL

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R&D DEPT	ENGINEER DEPT	APPROVAL

REV	MODIFIED DESCRIPTION	DATE	REMARK
V1.0	Initial Draft Release	2022/05/09	

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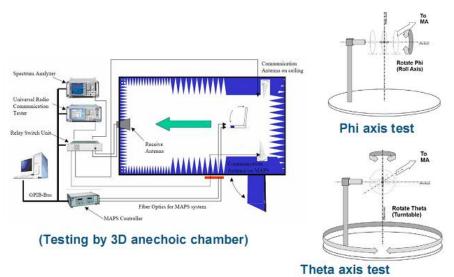
3.Product Specification

A. Electrical Characteristics	
Frequency	2400MHz ~2500 MHz
	5150MHz ~5850 MHz
VSWR	<2.0
Efficiency	≥40%
Impedance	50Ohm
Polarization	Linear
Gain(2.4GHz)	≤2.0dBi
Gain(5.8GHz)	≤2.5dBi
B. Material & Mechanical Characteristic	28
Material of Radiator	FPC(Black),LJWF27BF
Cable Type	Φ1.13mm,L268mm,Black
Connector Type	IPX1
Dimension	26.0*18.8mm
C. Environmental	
Operation Temperature	- 20 °C ~+ 70 °C
Storage Temperature	- 30 °C ~ + 85 °C
Humidity	40%~95%

4. Test Equipment & Conditions

1.Network Analyzers	Agilent 8753D/5071C
2.HSPA and LTE protocol test set	R&S CMW500 -PT
3.Communications Test Set	Agilent 8960

4.3D Chamber Test System



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Chart 1 Test topology

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

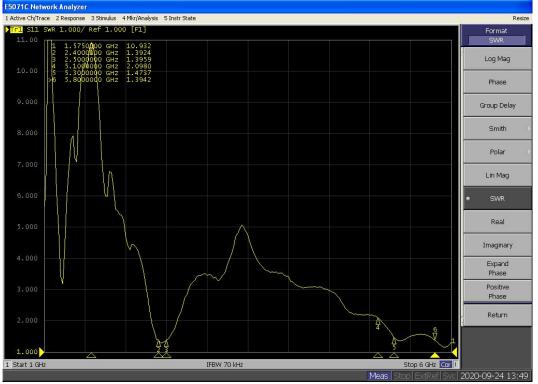


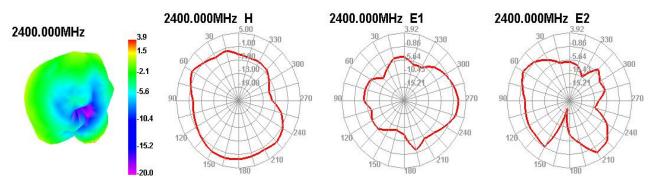
Chart 2 VSWR

5.2 Efficient and gain.

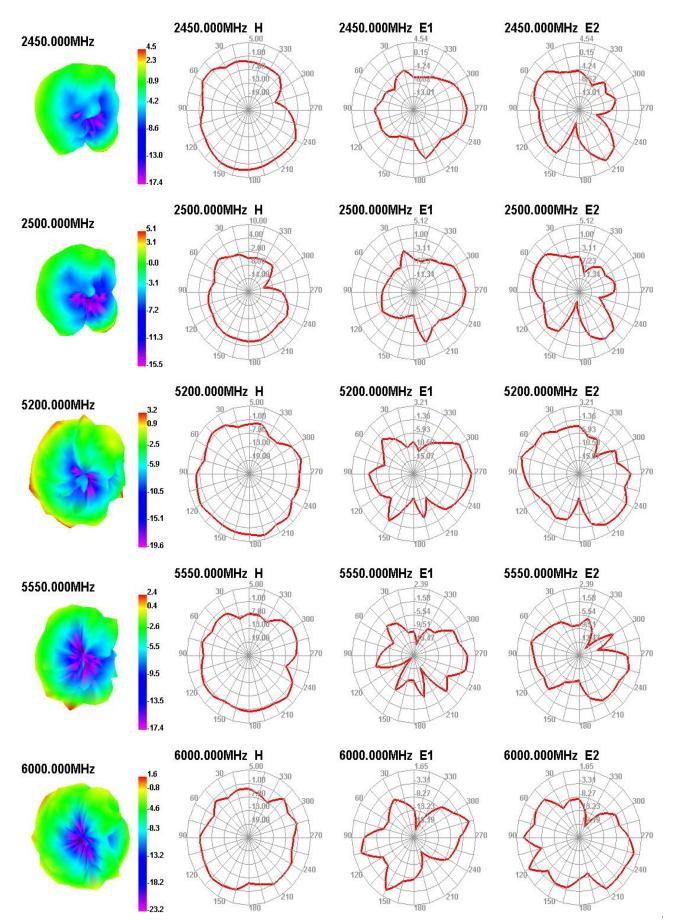
Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For	Effi(%)	45.65	48.12	51.20	51.27	53.83	49.54	52.23	51.10	54.04	47.21	43.67
2.4G	Gain(dBi)	1.96	1.92	1.91	1.95	2.00	2.00	1.99	1.96	1.95	1.93	1.85

Passive	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Test For	Effi(%)	49.58	50.82	49.85	47.93	52.08	52.55	55.11	58.12	56.12	52.62	49.63	49.61	49.72	50.12	47.66
5G	Gain(dBi)	2.23	2.50	2.29	2.40	2.31	2.43	2.38	2.29	2.48	2.14	2.25	2.27	2.50	2.48	2.22

5.3 Radiation pattern.



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6.Reliability Test

	Test Item	Test condition	Equipment	Specification	Result
	Low Temp.	Temperature: -30°C, Time:48hrs Test condition: Placing antenna in a Low/High		No materia deformation is	1 1
1		Temperature Chamber, keep the temp is $25 ^{\circ}\text{C}$ and humidity is	Temp.&Hum	allowed.	PASS
	Test	65% for one hour, then step-down the temp. to -30 °C in one hour, store antenna for44 hours; step-up temp to 25 °C ,test	Tester	Electronic Performance is	5
		antenna after 2 hours.		ok .	
		Temperature: 85°C Humidity: 85% RH Time:48hrs		No materia	1
	High	Test condition: Placing antenna in a Low/High	Tama 6-11	deformation is	6
2	Temp./High	Temperature Chamber, keep the temp is $25^\circ\!\!\mathbb{C}$ and humidity is	Temp.&Hum	allowed.	DAGG
2	Humid	65% for one hour, then step-up the temp. to 80 $^\circ\!\!{ m C}$ and the	1. Taataa	Electronic	PASS
	Storage Test	humidity up to 85% in one hour, store antenna for 44 hours;	Tester	Performance is	5
		step-down tempto 25°C,test antenna after 2 hours.		ok .	
	Salt-Sprav 6	Placing antenna in the Salt-Spray Tester ,set the test	G 14 G	No color change	
3		condition , Temp: $35{\pm}2^{\circ}$ C Humidity: 85% NaCl salt spray :5	Salt-Spray	No appea	rPASS
		\pm 1%.PH value :6.5~7.2 Testtime:24hours	Tester	rusting	

7.Assemble type

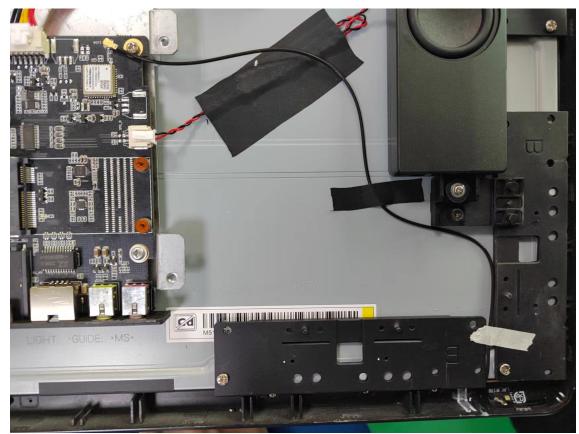


Chart 3 NW2495 assemble type

8. Product Drawing

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	Unit mm Scale	Designed by Checked by RF			7
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