SPECIFICATIONS FOR APPROVAL

Custor	ner Name:	深圳市维度创新实业有限公司								
Produc	ct Name:	WIFI Antenna								
Produc	ct Model:	SC1								
Part N	umber:	L	<u>JF02-2305</u>	3108B	3-R0A					
Write E	Ву:		Pengs	siheng	1					
Issued	Date:		2023-0	06-08						
CUST	OMER									
ENGI	NEER R&D DEPT	BUSSINE	SS DEPT		APPROVAL					
LEJIN			<u>'</u>							
	R&D DEPT	ENGINEE	ER DEPT	APPROVAL						
REV	MODIFIED DES	SCRIPTION	DATE		REMARK					

REV	MODIFIED DESCRIPTION	DATE	REMARK
V1.0	Initial Draft Release	2023/06/08	

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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)	≤2.5dB							
B. Material & Mechanical Characteristic	es							
Material of Radiator	FPC(Black),LJWF25A							
Cable Type	Φ1.13mm,L60mm,Black							
Connector Type	IPX1							
Dimension	26.0*16.8mm							
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

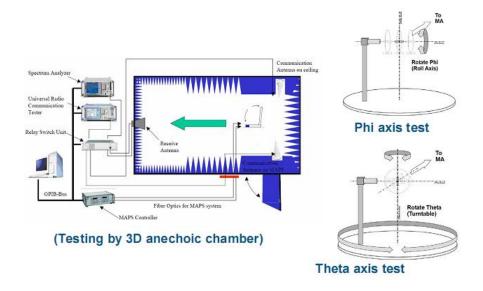


Chart 1 Test topology

Shenzhen Lejin radio frequency technology Co., LTD

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

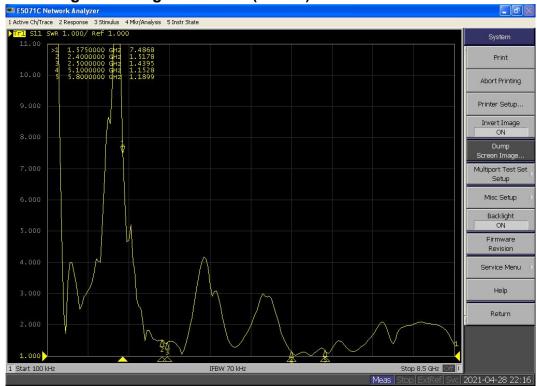


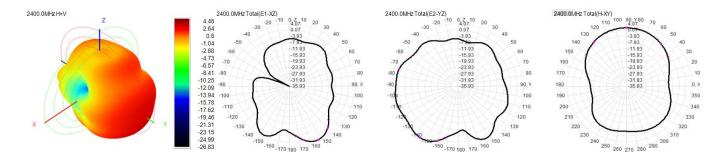
Chart 2 VSWR

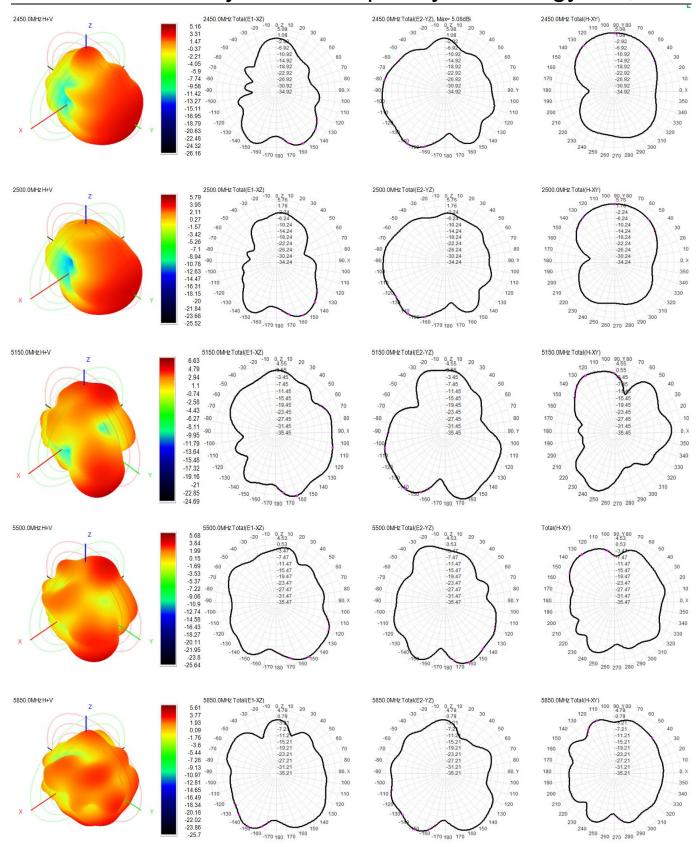
5.2 Efficient and gain.

Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test	Effi(%)	50.71	53.03	53.58	54.57	56.24	56.11	57.12	58.21	59.29	58.70	59.57
2.4GHz	Gain(dBi)	1.98	2.22	2.31	2.06	2.26	2.26	2.17	2.28	2.05	2.15	2.29

Passive	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Test WIFI	Effi(%)	65.42	64.86	61.34	63.49	65.85	62.95	62.64	64.74	64.41	62.95	62.57	63.05	64.52	64.46	61.54
5G	Gain(dBi)	2.13	2.25	2.27	2.10	2.08	2.03	1.63	2.08	1.98	1.90	1.97	1.82	2.05	2.37	2.01

5.3 Radiation pattern.





6. Reliability Test

_					
	Test Item	Test condition	Equipment	Specification	Result
		Temperature: -30°C, Time:48hrs		No materi	al
	Low Tomo	Test condition: Placing antenna in a Low/High	Tome & Hum	deformation	is
1	Low Temp.	Temperature Chamber, keep the temp is 25 °C and humidity is	Temp.&Hum	allowed.	DAGG
1	Storage	65% for one hour, then step-down the temp. to $-30^\circ\mathrm{C}$ in one	l. Tastan	Electronic	PASS
	Test	hour, store antenna for44 hours; step-up temp to 25 $^\circ\mathrm{C}$,test	Tester	Performance	is
		antenna after 2 hours.		ok .	
		Temperature: 85°C Humidity: 85% RH Time:48hrs		No materi	al
	High	Test condition: Placing antenna in a Low/High	Temp.&Hum	deformation	is
2	Temp./High	Temperature Chamber, keep the temp is 25 °C and humidity is	:	allowed.	PASS
2	Humid	65% for one hour, then step-up the temp. to $80^\circ\!\mathrm{C}$ and the	rastan	Electronic	rass
	Storage Test	humidity up to 85% in one hour, store antenna for 44 hours;	Tester	Performance	is
		step-down tempto $25^\circ\!\!\mathbb{C}$,test antenna after 2 hours.		ok .	
	Salt-Spray 6	Placing antenna in the Salt-Spray Tester ,set the test	No color chang	e	
3		condition ,Temp: $35{\pm}2$ °C Humidity: 85% NaCl salt spray :5	Salt-Spray Tester	No appe	ar PASS
		\pm 1%.PH value :6.5~7.2 Testtime:24hours	1 68161	rusting	

7.Assemble type.



Chart3 assemble type

8.Product Drawing

Length:25.75mm Width:17.00mm



