SPECIFICATIONS FOR APPROVAL

Customer Name:		Shenzh	Shenzhen Suichen Technology Co.,Ltd									
Produ	ct Name:	WIFI Antenna1										
Anter	nna type:		FPC Antenna									
Produ	ct Model:		N/A									
Part N	umber:	L	LJF02-21051908A-R0A									
Write	Ву:		Liming	jin								
Issued	d Date:		2021-05-19									
CUST	OMER											
ENG	SINEER R&D DEPT	BUSSINE	SS DEPT	APPROVAL								
LEJIN	J											
	R&D DEPT	ENGINE	ER DEPT	APPROVAL								
REV MODIFIED DE		DESCRIPTION	DATE	REMARK								
		,	2021/05/19									

Index

1.	Cover·····
2.	Index2
3.	Product Specification 3
4.	Test Equipment & Conditions 3
5.	Test Report·····
6.	Reliability Test·····5
7.	Assemble type 6
8.	Product Drawing ······ 8

3. Product Specification

A. Electrical Characteristics						
Frequency	2400MHz ~2500 MHz					
	5150MHz ~5850 MHz					
VSWR	<2.0					
Efficiency	≥40%					
Impedance	50Ohm					
Antenna type	PIFA					
Polarization	Linear					
Gain(2.4G)	≤2.34dBi					
Gain(5G)	≤2.69dBi					
B. Material & Mechanical Characteristic	s					
Material of Radiator	FPC,black,,LJWF23F					
Cable Type	Φ0.81mm,L110mm,Black					
Connector Type	IPX3					
Dimension	26.6mm*22.6mm					
C. Environmental						
Operation Temperature	- 20 °C ~ + 70 °C					
Storage Temperature	- 30 °C ~ + 85 °C					
Humidity	40%~95%					

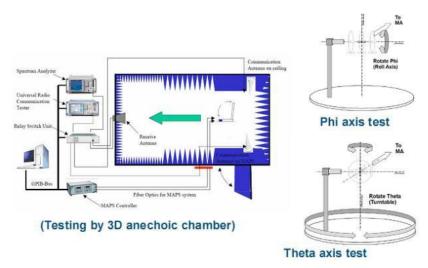
4.Test Equipment & Conditions

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



Shenzhen Lejin radio frequency technology Co., LTD

Chart 1 Test topology

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

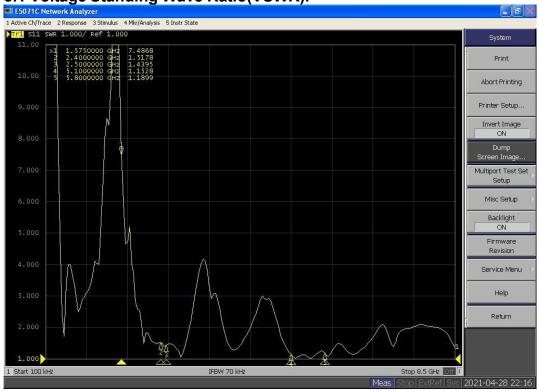


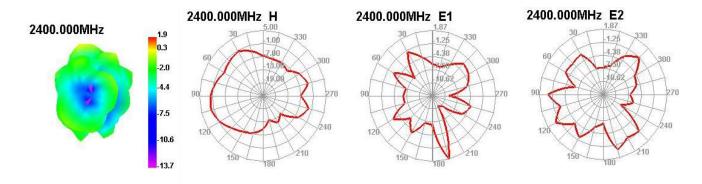
Chart 2 VSWR

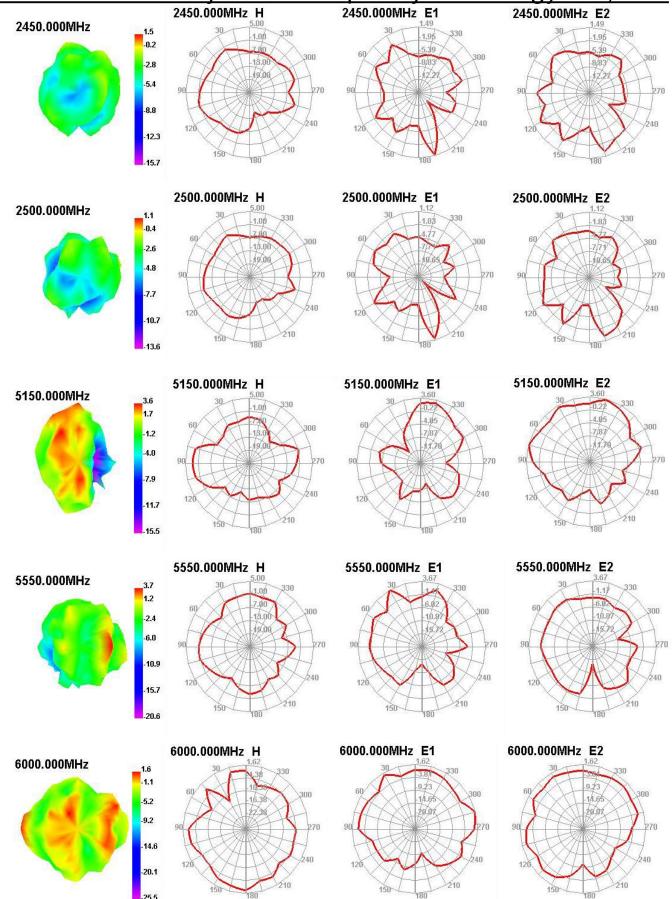
5.2 Efficient and gain.

Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For	Effi(%)	48. 94	44. 62	52. 73	49. 23	50. 91	46. 61	45. 54	46.90	47. 46	44. 97	44. 33
WIFI 2.4G	Gain(dBi)	2.06	1.87	2.34	1.96	2. 13	1.94	1.92	1.87	1.89	1.81	1.83

Passive	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Test For			49.16	47.49	52.19	50.06	50.27	51.2	46.44	45.09	41.88	42.99	44.82	41.01	40.99	39.92
WIFI 5G	Gain(dBi)	2.52	2.69	2.14	2.67	2.49	2.37	2.23	2.05	2.57	1.93	1.75	2.18	2.19	1.52	1.88

5.3 Radiation pattern.



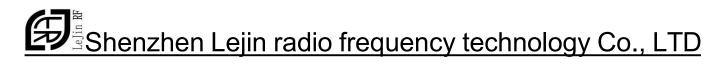


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6.Reliability Test

	Test Item	Test condition	Equipment	Specification	Result
1	Test	Temperature: -30°C , Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25 $^{\circ}\text{C}$ and humidity is 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 antenna after 2 hours.	Temp.&Hu mi. Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
2	Humid Storage Test	Temperature: 85°C Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25°C and humidity is 65% for one hour, then step-up the temp. to 80°C and the humidity up to 85% in one hour, store antenna for 44 hours; step-down tempto 25°C, test antenna after 2 hours.	Temp.&Hu mi. Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
3	T (Placing antenna in the Salt-Spray Tester ,set the test condition , Temp: $35\pm2^{\circ}$ C Humidity: 85% NaCl salt spray :5 \pm 1%.PH value :6.5~7.2 Testtime:24hours	Tester	No color change No appear rusting	PASS

7. Assemble type



Chart 3 Assemble type(overall)





Chart 4 Assemble type

8.Product Drawing

