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5. Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

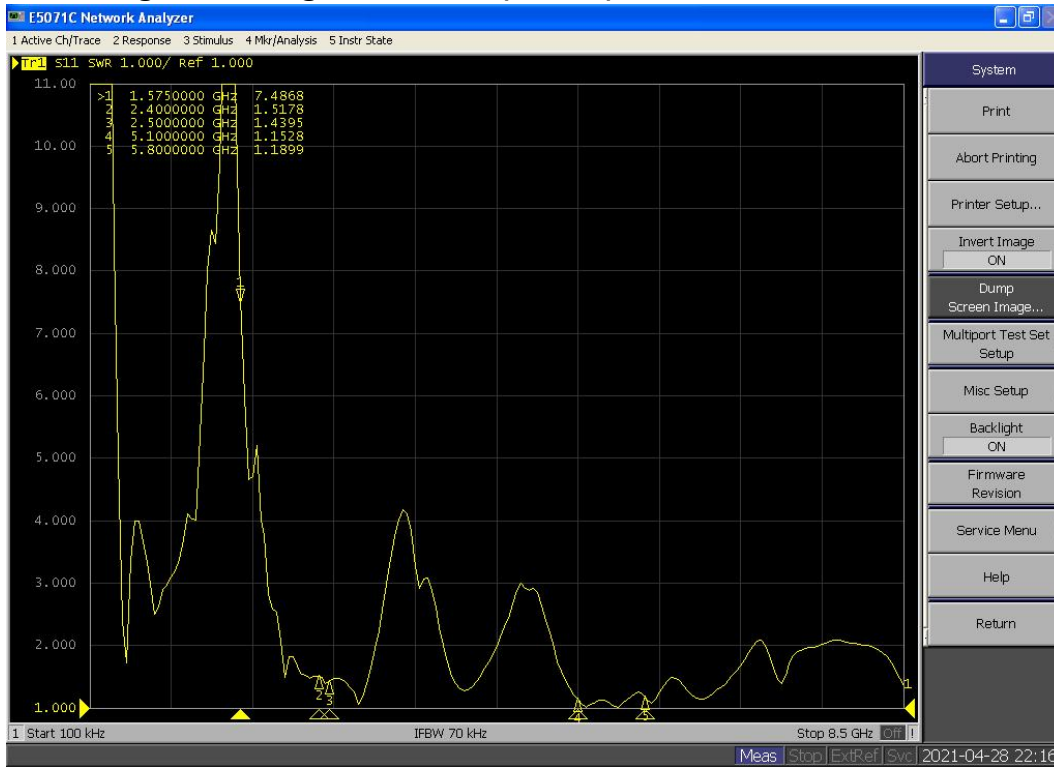


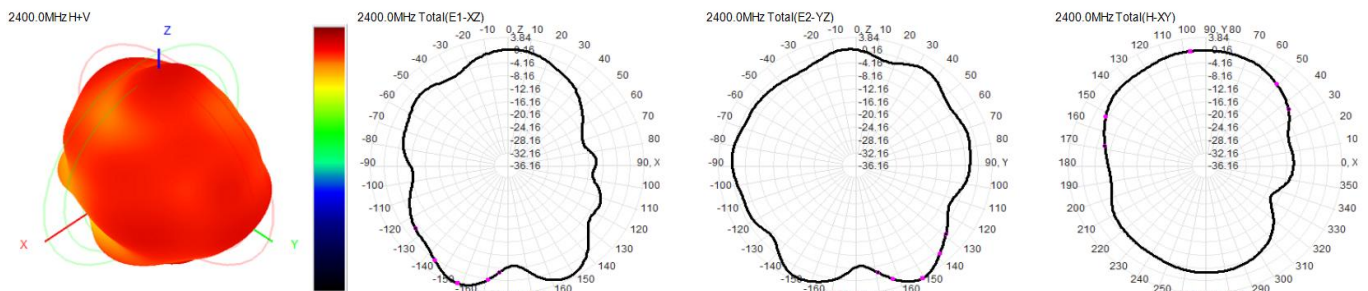
Chart 2 VSWR

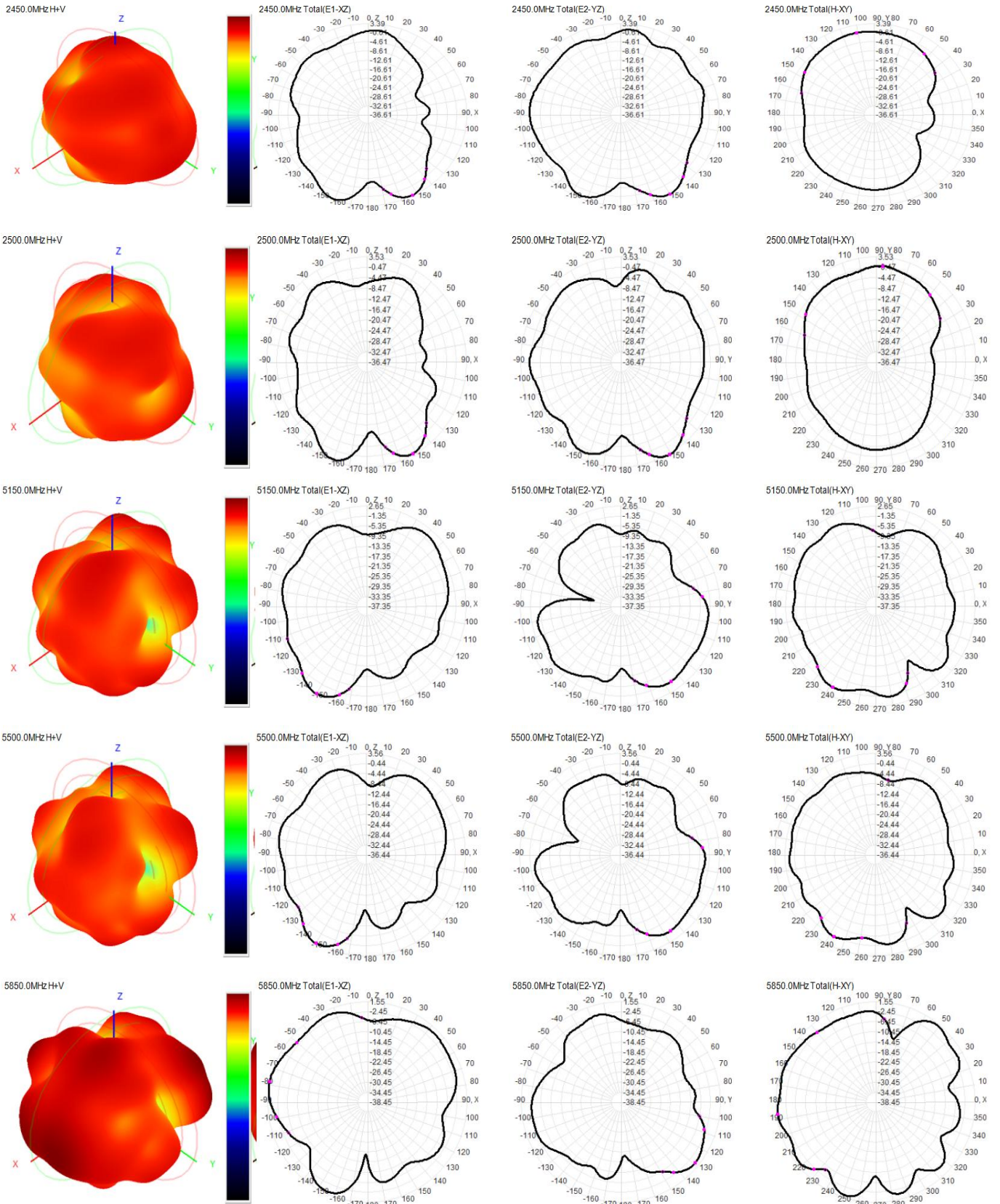
5.2 Efficient and gain.

Passive Test 2.4GHz	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Effi(%)		56.02	55.58	53.39	52.24	53.74	52.94	53.83	52.92	51.61	51.10	49.53
Gain(dBi)		2.19	2.30	2.19	2.08	2.10	1.87	1.88	1.82	1.87	2.05	2.19

Passive Test WIFI 5G	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Effi(%)		48.09	52.50	57.55	55.42	49.98	51.41	54.49	57.86	59.07	59.25	51.08	53.39	55.98	56.41	53.58
Gain(dBi)		1.75	2.18	2.28	2.47	2.23	2.86	2.50	2.37	2.36	2.24	2.30	2.48	2.48	2.37	2.28

5.3 Radiation pattern.







6. Reliability Test

Test Item	Test condition	Equipment	Specification	Result
1 Low Temp. Storage Test	Temperature: -30°C, 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-down the temp. to -30 °C in one hour, store antenna for 44 hours; step-up temp to 25 °C ,test antenna after 2 hours.	Temp.&Humidity Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
2 High Temp./High 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 temp to 25 °C ,test antenna after 2 hours.	Temp.&Humidity Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
3 Salt-Spray Test	Placing antenna in the Salt-Spray Tester ,set the test condition , Temp: 35±2°C Humidity: 85% NaCl salt spray :5±1%.PH value :6.5~7.2 Testtime:24hours	Salt-Spray Tester	No color change No appear rusting	PASS

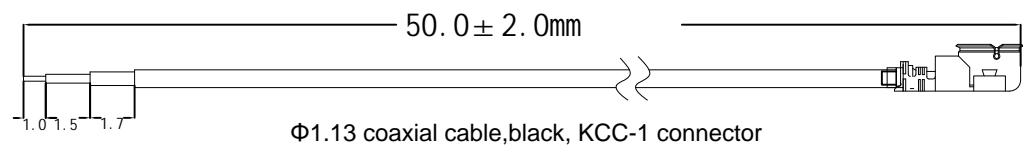
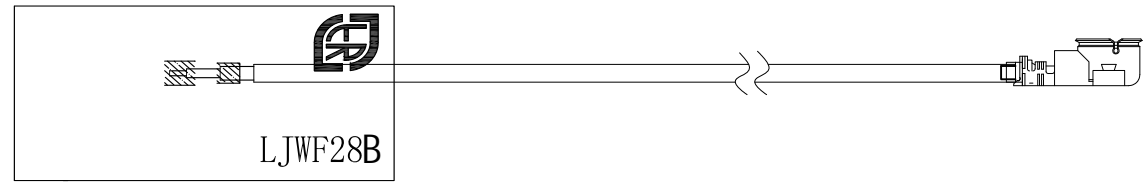
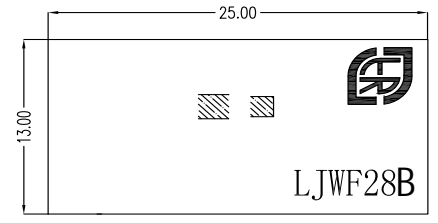
7. Assemble type



Chart 3 assemble type

8. Product Drawing

RoHS
Compliant
G P



Remark:

- 1.FPC material:Electrolytic copper.
- 2.Backing in behind:3M300LSE.
- 3.Tolerance: Cutting die:±0.1mm;Circuit on FPC:±0.05mm; others are ±0.05mm.
- 4.ROHS:(Pb,Hg,Cr+6,PBBs,PBDEs),<1000ppm; Cd,<100ppm.

Revise record	1			
	2			
	3			

		SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD					
		Project	星巡智能	Date	2023-06-25		
0~10	±0.05	○	0.02	Part Name	WIFI ANT	Designed by	
10~18	±0.10	◎	∅0.03	Part No.	EMK4	Checked by	MD
18~30	±0.12	⊥	0.02	Material			RF
30~40	±0.15	∕	0.04	Treatment	LJF02-23062508-ROA	Approved by	
40~	±0.20	Angle	±0.5°	Location		Unit	mm
						Scale	FIT
						Rev	A

Rev	Description	Date	Remark
A	New drawing		