

Antenna SPEC

Project Name:T5

Working Band: WIFI2.4G/5G

Forten BOM:

ANT Type	YFT P/N
WIFI Antenna	Y1170010100KA

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Shanghai R & D center: Room 203, building 1, No. 3408, Xiupu Road, Pudong New Area, Shanghai.

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1. PROJECT PICTURES

project pictures shown below:



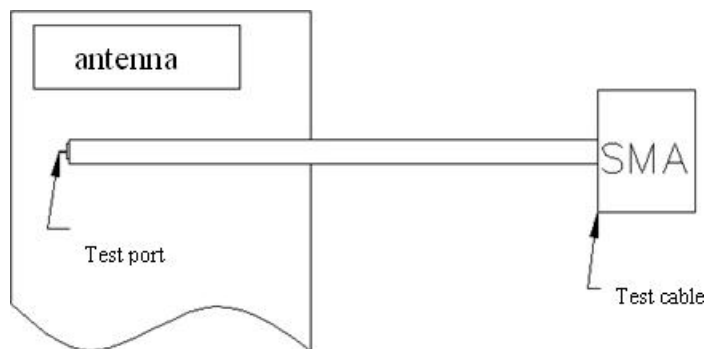
PS:

To ensure that the antenna shipment quality, the final mobile phone Clients validated the antenna's performance, should be kept in our company for at least a year time, facilitate solving antenna amount during abnormal situation.

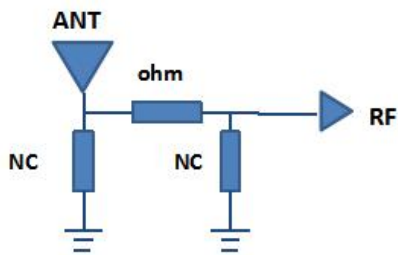
2. TEST FIXTURE

Purpose: To test antenna passive parameters as accurately as possible .

methods: the fixture is to use a 50 ohm coaxial cable, one end is connected to the pad after the antenna's matching circuit (the front of the antenna switch) , and the other end is connected to the SMA connector.



3. MATCHING CIRCUIT

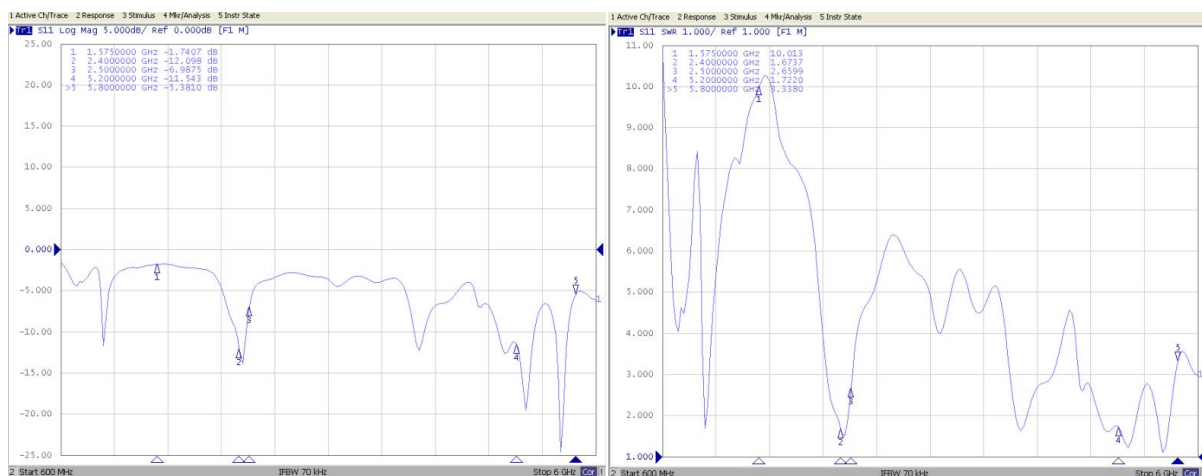


PS: There's been NO a change in the matching circuit.

4. S11 test

4.1 S11 parameter

FRq (MHz)	2400	2500	5200	5800		
Return loss	-12.1	-7.0	-11.5	-5.4		



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5 OTA TEST DATA

5.1 Passive Gain &efficiency:

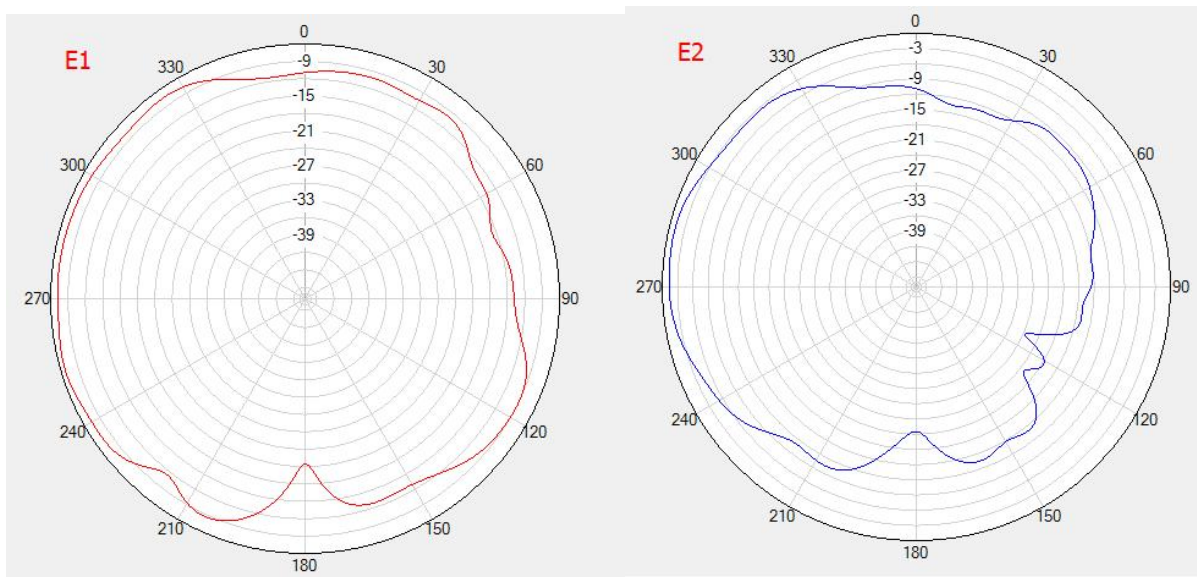
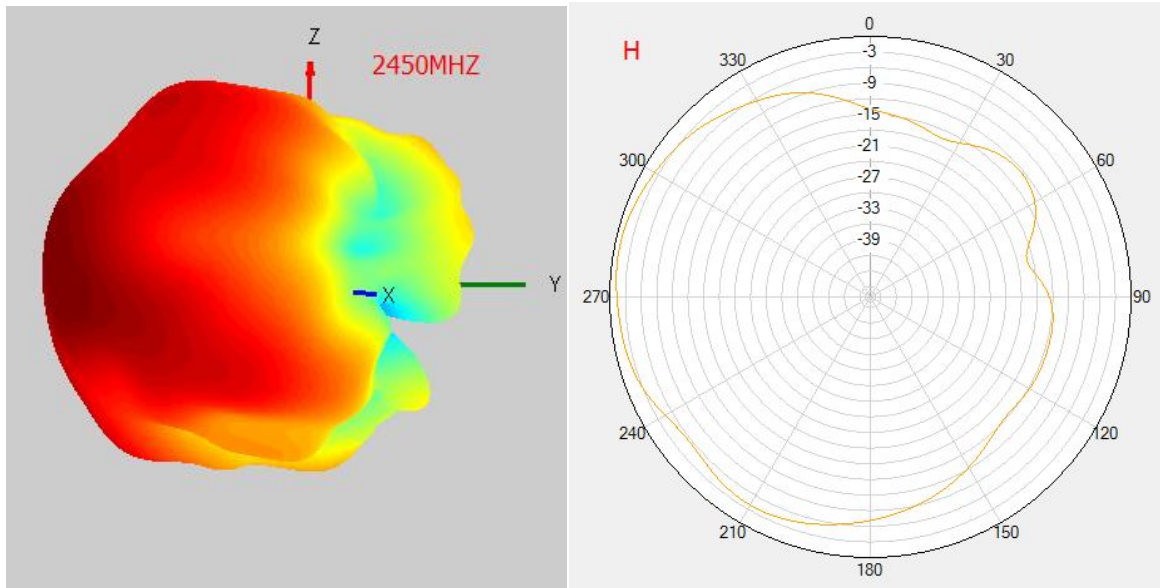
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(%)	frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(%)
2400	-0.87	18.81	5150	-0.27	15.05
2410	-0.66	19.29	5200	-0.44	14.94
2420	-0.89	17.98	5250	-0.36	14.72
2430	-0.64	18.83	5300	0.76	16.20
2440	-0.68	18.42	5350	0.32	15.31
2450	-0.82	17.60	5400	0.7	13.37
2460	-1.12	16.47	5450	-0.24	12.71
2470	-1.38	15.50	5500	-0.19	12.06
2480	-2.03	13.54	5550	-0.44	11.99
2490	-2.57	11.79	5600	-0.47	12.83
2500	-2.86	10.70	5650	-1.04	12.88
			5700	-1.53	11.88
			5750	-2.26	11.72
			5800	-3.41	10.14
			5850	-2.88	10.88
			5900	-4.09	10.10
			5950	-4.55	9.22

5.2 Active OTA test data :

Test	Wifi2.4G-11b11M			Wifi5G-11a54M			
Result	1	7	11	36	64	165	
Frequency (MHz)	2412	2442	2462	5180	5320	5825	
TRP (dBm)	12.07	12.56	11.42	11.52	10.25	8.35	
TIS (dBm)	-72.17	-72.85	-72.75	-66.52	-62.35	-62.5	亮屏开启录音

6. Radiation Pattern

2450MHZ



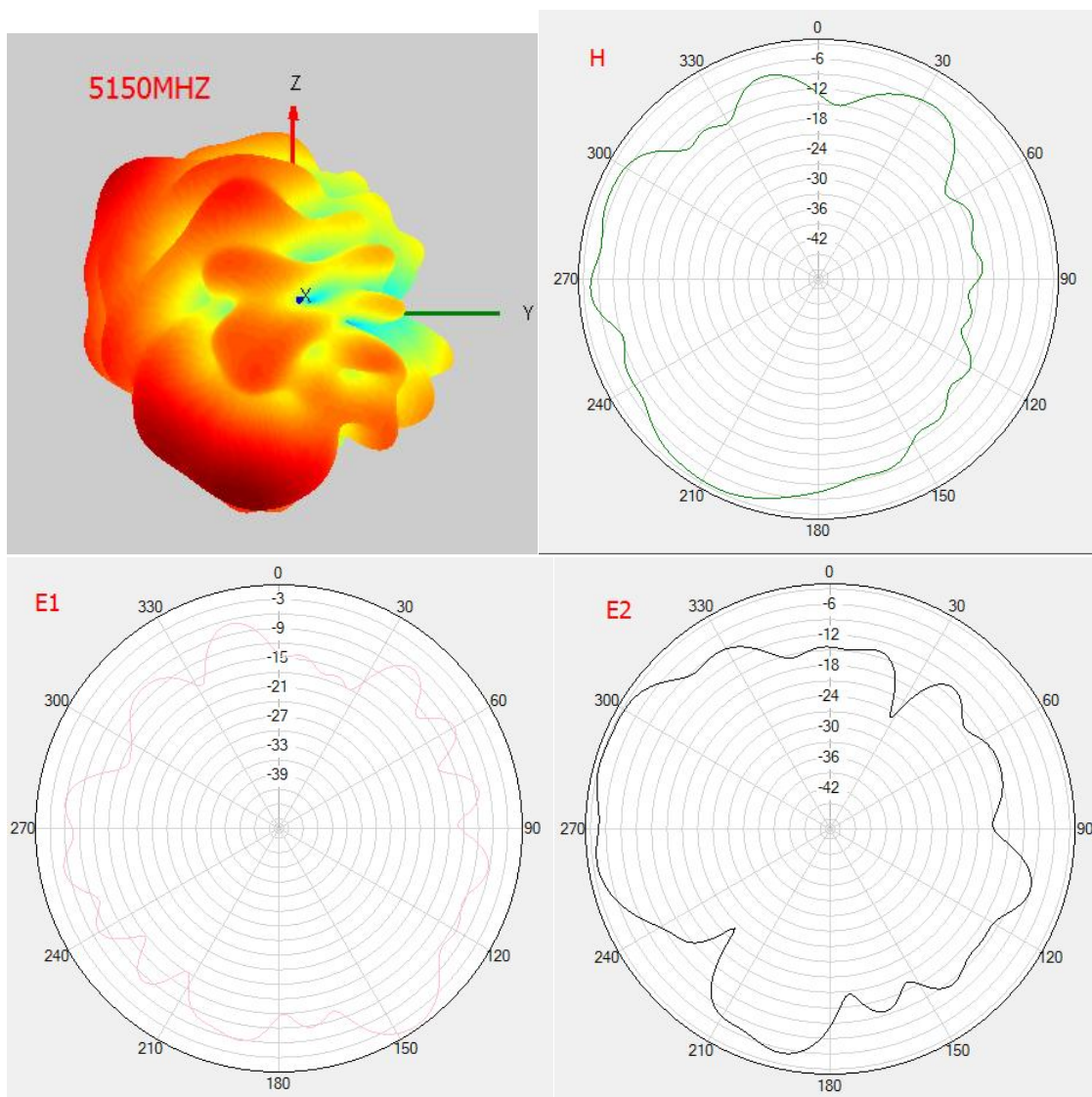
5150MHz

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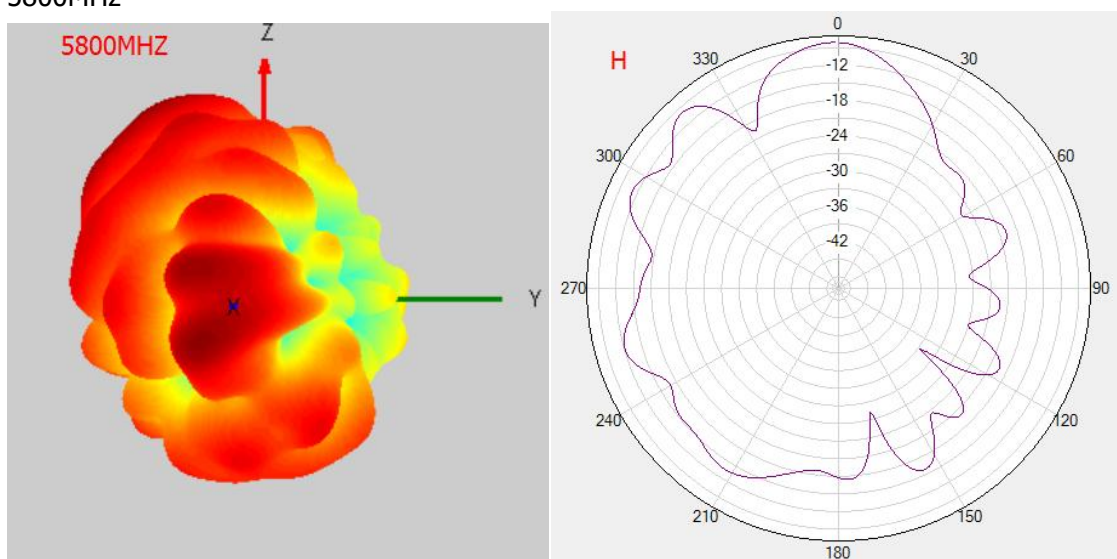
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Forten Technology (Shanghai) Ltd. Company Antenna Specification



5800MHz

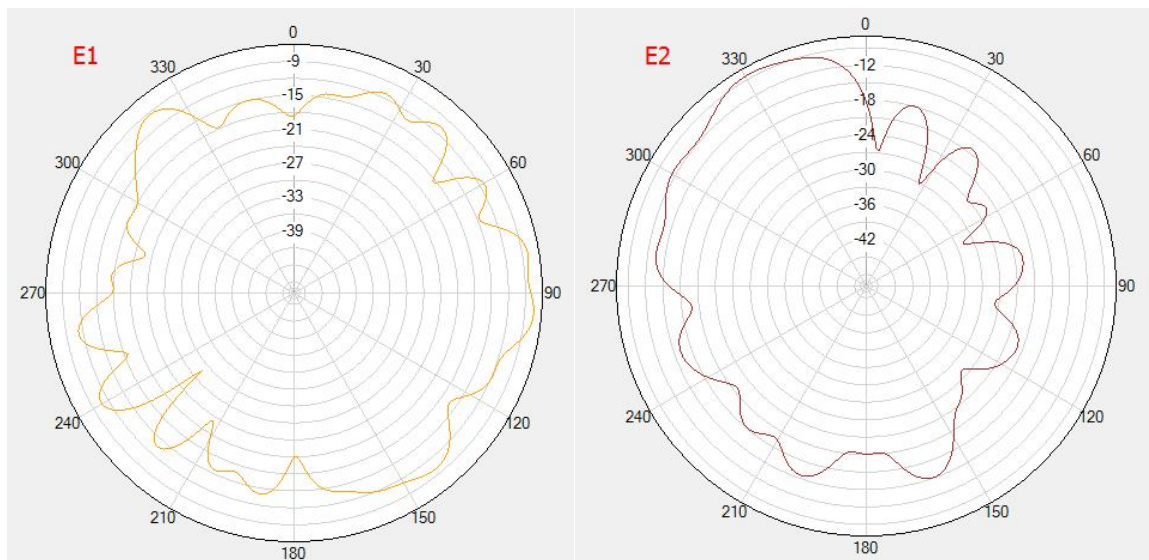


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