



深圳市乐进射频科技有限公司

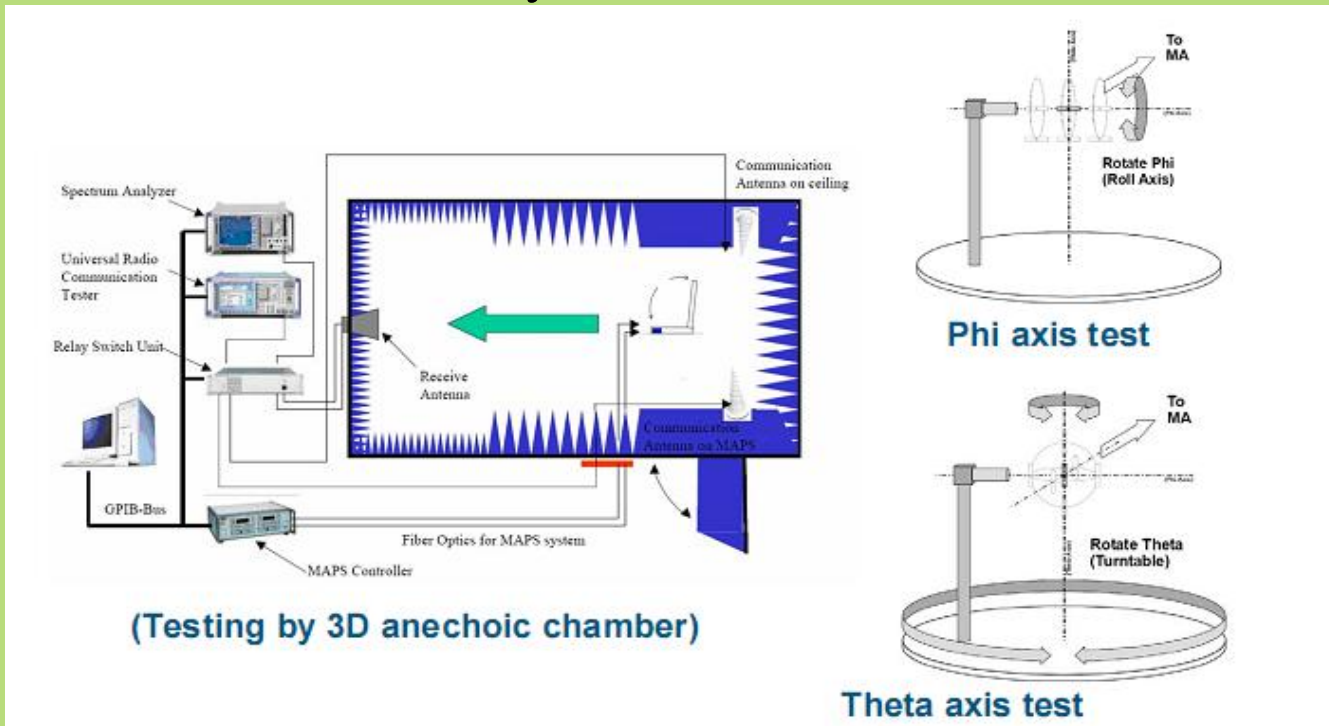
测试报告
Test Report

项目名称/Project Name: 随晨电子M1S
测试日期/Data: 2021-01-18



测试环境

1. **Network Analyzers :**
Agilent 8753D 5071C
2. **Communications Test Set:**
Agilent CMW500
3. **3D Chamber Test System**





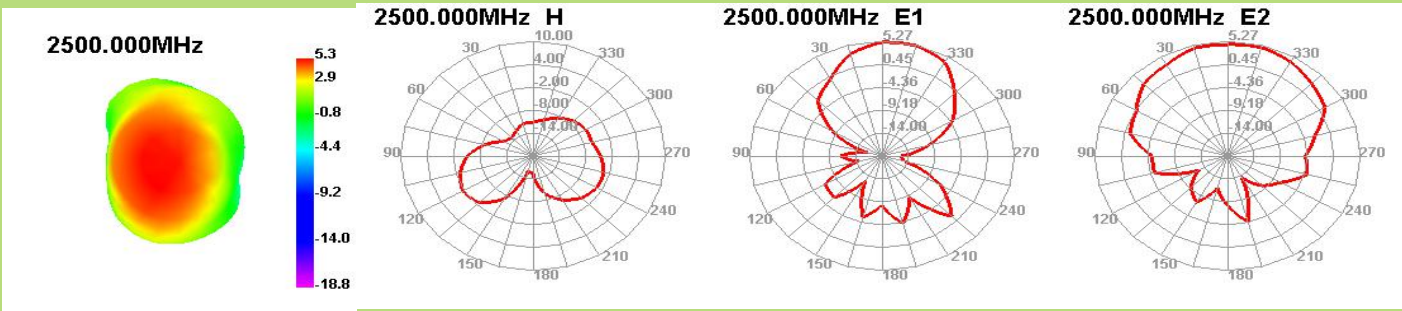
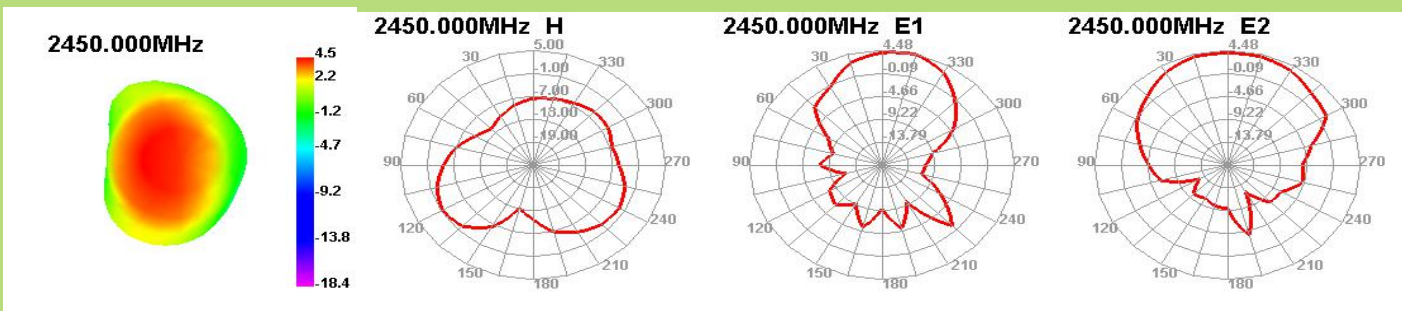
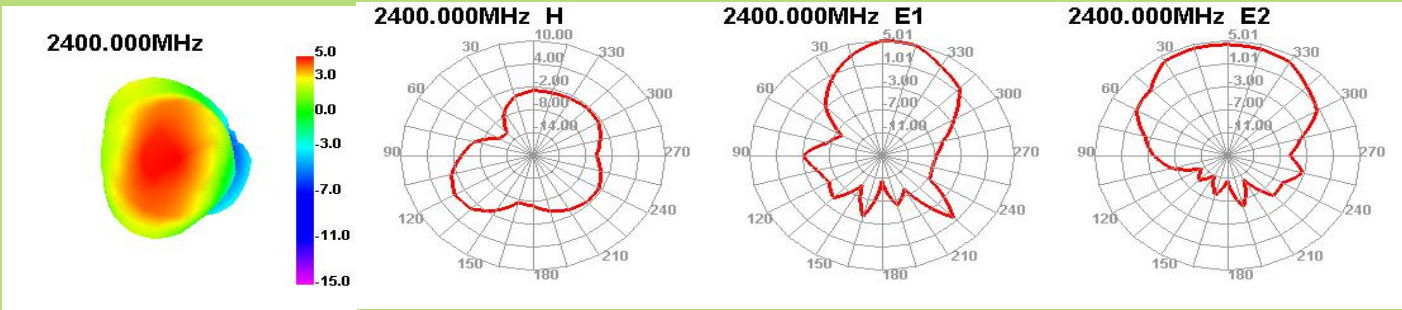
天线基本参数(ANT0)

A. Electrical Characteristics	
Frequency	2400~2500MHz 5150~5850MHz
VSWR	<2.0
Efficiency	>40%
Impedance	50Ohm
Polarization	Linear
Gain	>=1.8dB
B. Material & Mechanical Characteristics	
Material of Radiator	Internal FPC (LJWF23F)
Cable Type	Φ0.81, Black, L75mm
Connector Type	IPX3
Dimension	
C. Environmental	
Operation Temperature	- 30 °C ~ + 80 °C
Storage Temperature	- 20 °C ~ + 75 °C
Humidity	40%~95%



测试数据-WIFI1(ANT0) Eff. & Gain-2.4G

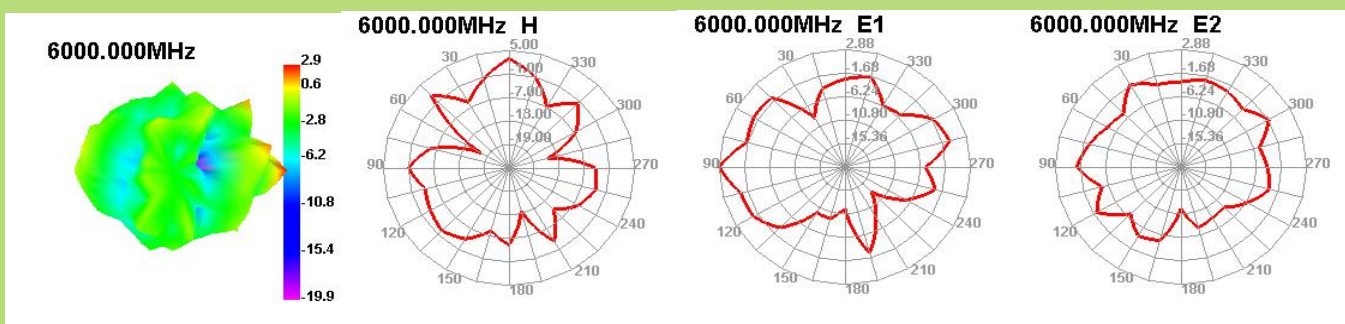
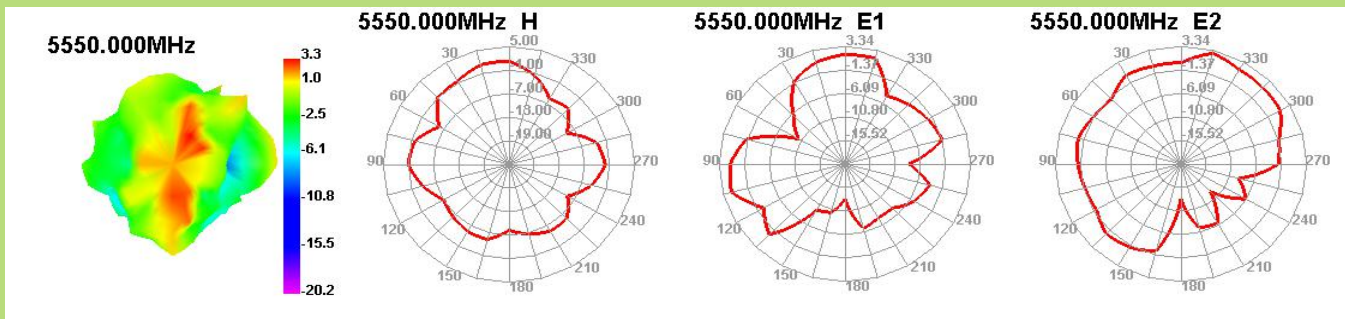
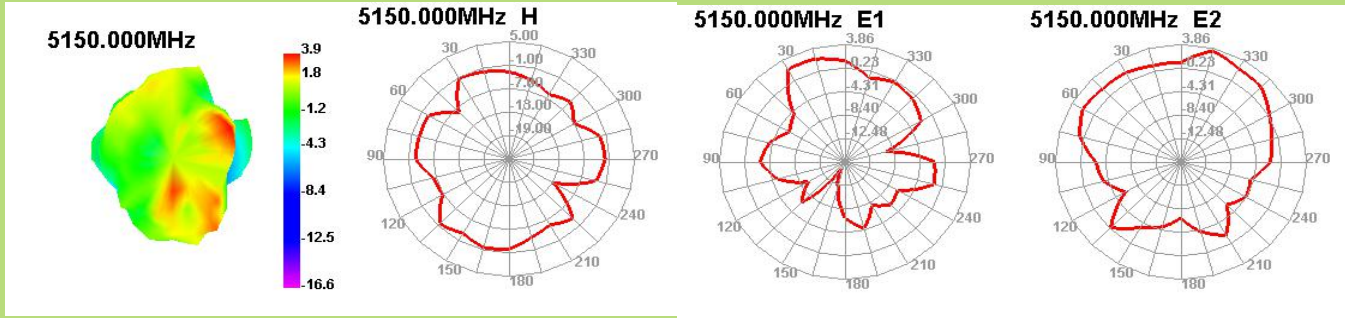
Passive Test For WIFI 2.4G	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
	Effi(%)	52.92	42.96	46.52	43.49	49.69	43.42	46.75	41.43	47.74	45.15	48.88
	Gain(dBi)	2.25	1.89	2.11	2.05	2.29	2.02	2.18	1.97	2.31	2.23	2.37





测试数据-WIFI1(ANT0) Eff. & Gain-5G

Passive Test For WIFI 5G	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Effi(%)		57.27	57.82	54.61	62.10	60.13	60.73	58.27	55.60	53.97	55.88	57.29	55.61	56.96	52.07	50.23
Gain(dBi)		3.86	4.01	3.76	4.70	4.61	4.19	4.09	3.59	3.34	2.31	2.18	2.49	2.63	2.65	3.12





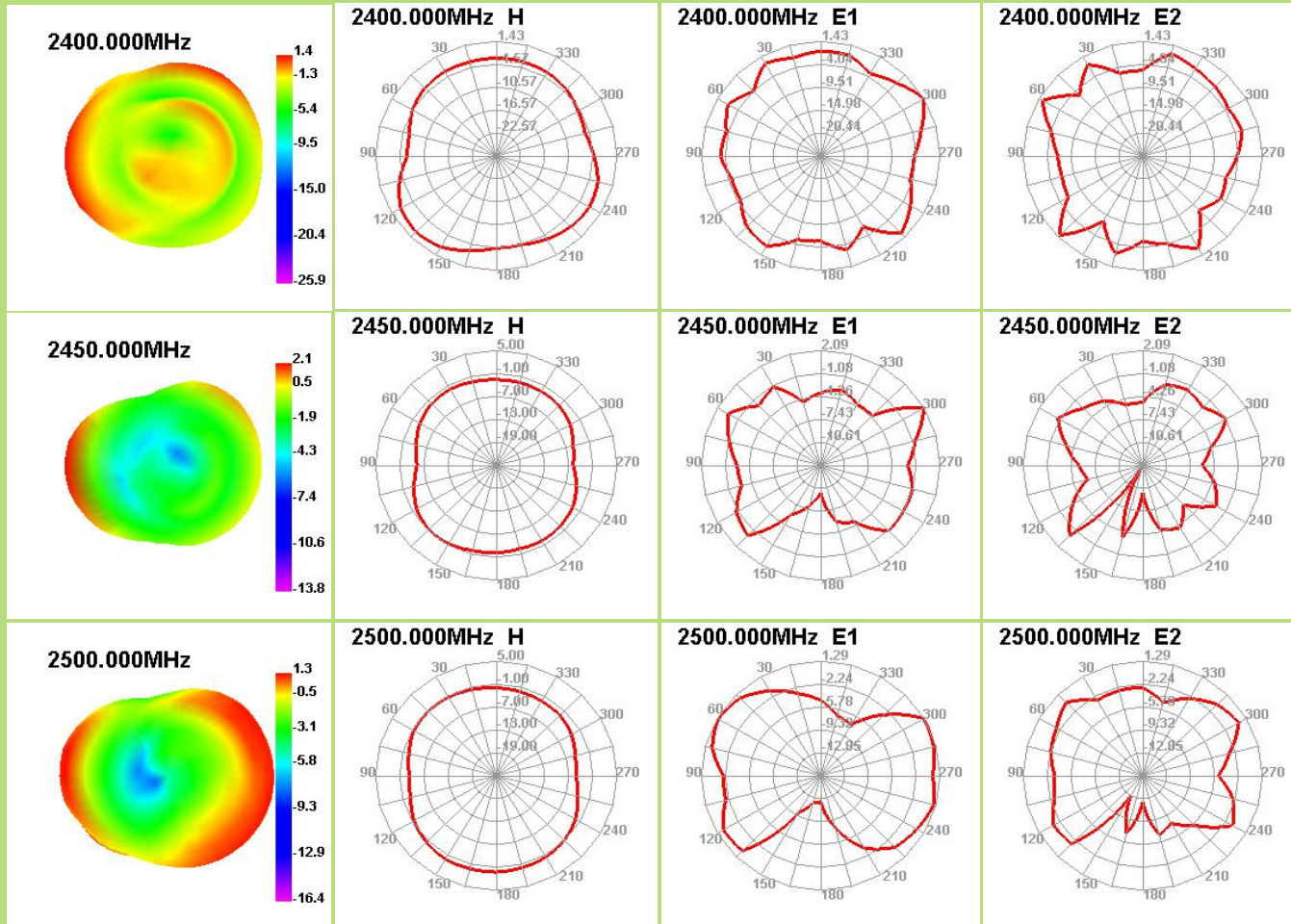
天线基本参数(ANT1)

A. Electrical Characteristics	
Frequency	2400~2500MHz 5150~5850MHz
VSWR	<2.0
Efficiency	>40%
Impedance	50Ohm
Polarization	Linear
Gain	>=1.8dB
B. Material & Mechanical Characteristics	
Material of Radiator	Internal FPC (LJWF23A)
Cable Type	Φ0.81, Black, L115mm
Connector Type	IPX3
Dimension	
C. Environmental	
Operation Temperature	- 30 °C ~ + 80 °C
Storage Temperature	- 20 °C ~ + 75 °C
Humidity	40%~95%



测试数据-WIFI2(ANT1) Eff. & Gain-2.4G

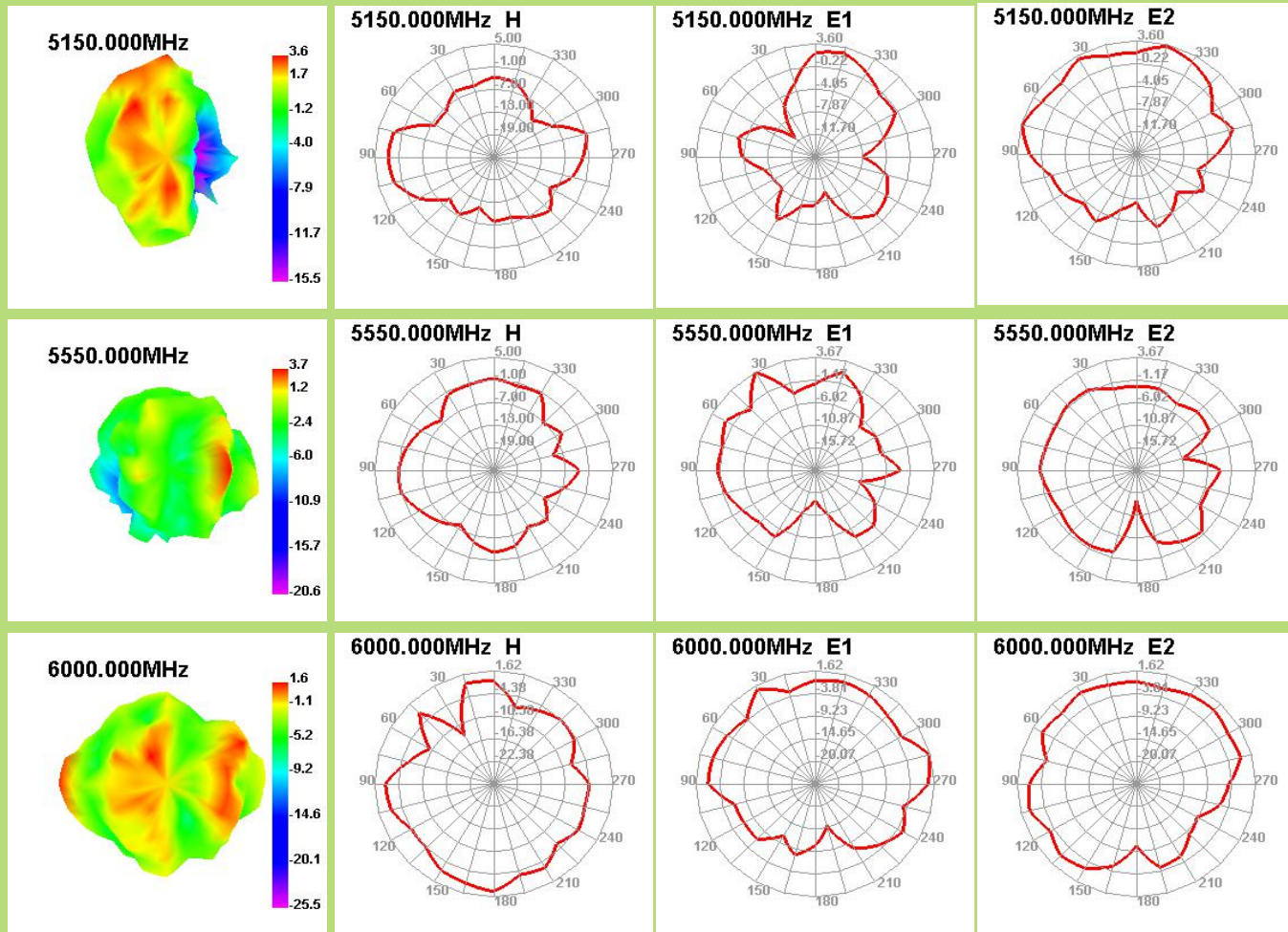
Passive Test For WIFI 2.4G	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
	Effi(%)	45.86	48.58	41.30	47.63	43.96	50.57	50.90	49.33	51.25	54.05	59.94
	Gain(dBi)	1.43	2.18	1.80	2.14	1.93	2.09	1.86	1.79	1.81	1.56	1.29





测试数据-WIFI2(ANT1) Eff. & Gain-5G

Passive Test For WIFI 5G	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
	Effi(%)	60.26	57.16	57.49	62.19	60.06	60.27	61.20	56.44	55.09	51.88	52.99	54.82	51.01	50.99	49.92
	Gain(dBi)	3.60	3.84	3.05	3.81	3.55	3.38	3.19	2.43	3.67	2.76	2.50	3.11	3.13	2.17	2.68





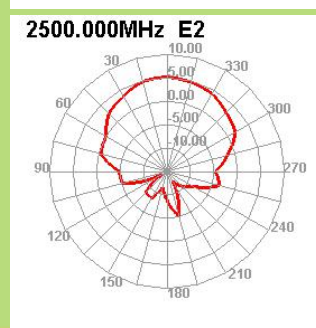
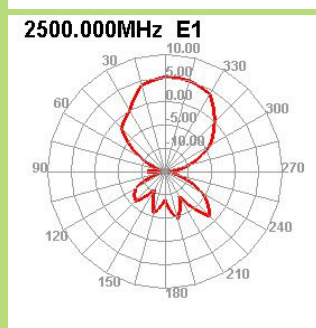
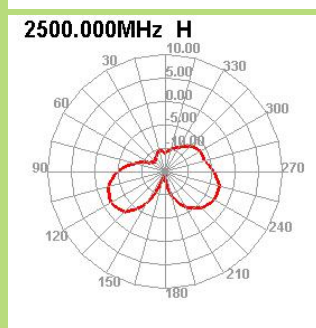
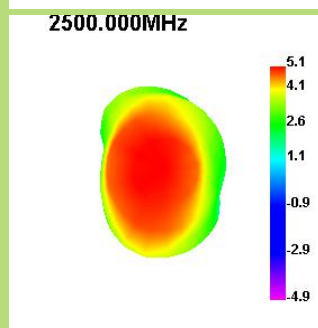
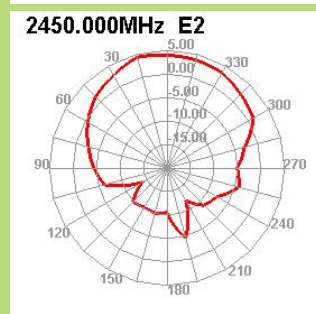
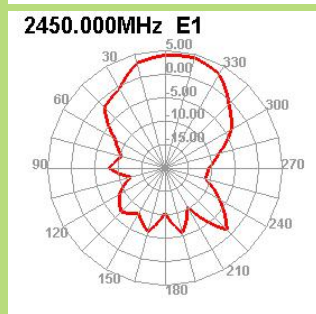
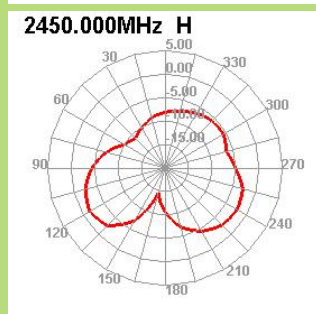
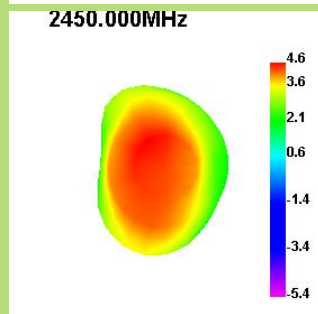
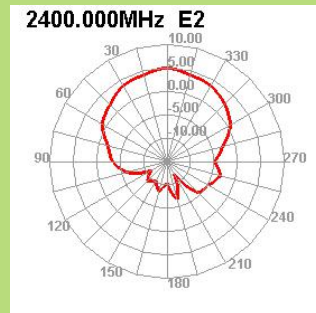
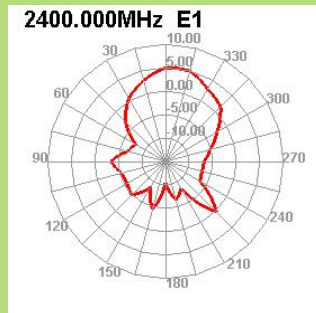
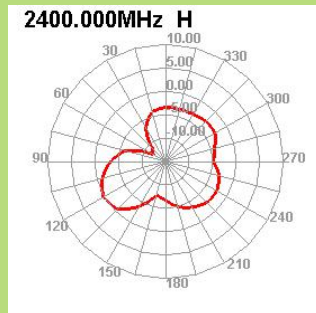
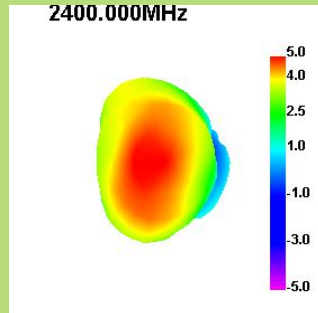
天线基本参数(BT)

A. Electrical Characteristics	
Frequency	2400~2500MHz
VSWR	<2.0
Efficiency	>40%
Impedance	50Ohm
Polarization	Linear
Gain	>=1.8dB
B. Material & Mechanical Characteristics	
Material of Radiator	Internal FPC (L1.1)
Cable Type	Φ0.81, Gray, L58mm
Connector Type	IPX3
Dimension	
C. Environmental	
Operation Temperature	- 30 °C ~ + 80 °C
Storage Temperature	- 20 °C ~ + 75 °C
Humidity	40%~95%



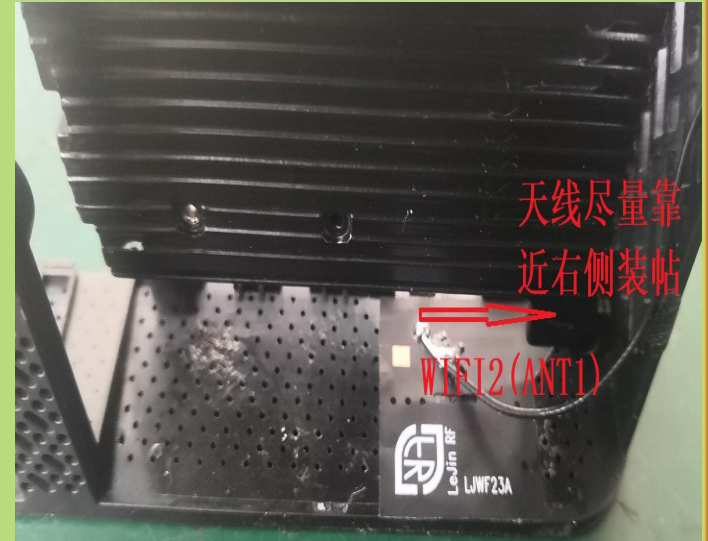
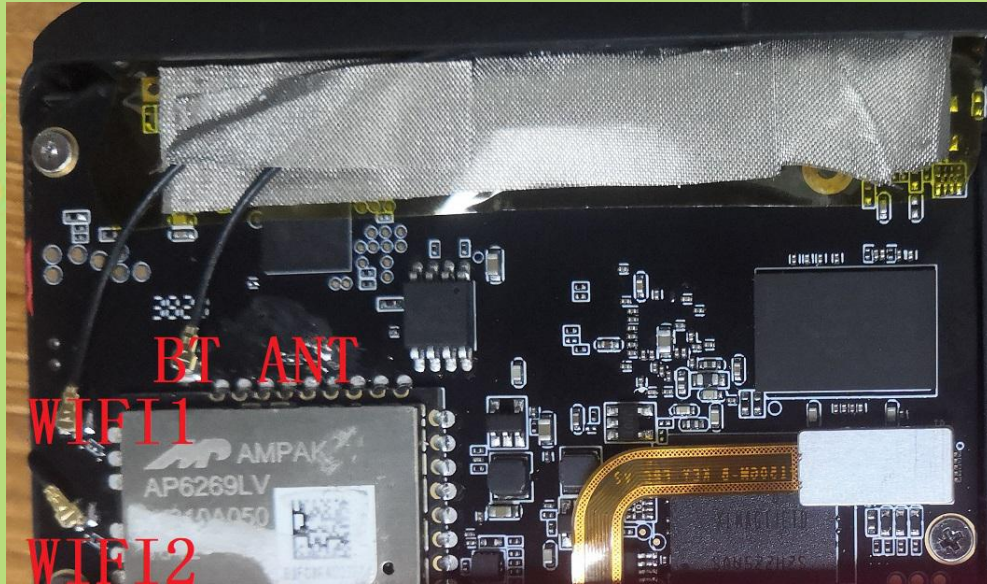
测试数据-BT Eff. & Gain-2.4G

Passive Test For WIFI 2.4G	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
	Effi(%)	47.78	48.77	41.87	45.35	44.99	39.23	42.36	47.60	43.48	40.87	44.41
	Gain(dBi)	1.76	1.80	1.66	1.68	1.80	1.62	1.76	1.79	1.81	1.72	1.79





装配方式





深圳市乐进射频科技有限公司

Shenzhen Lejin Radio frequency technology Co.,Ltd

www.szljrf.com

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Thank you