



深圳市连兴创电子科技有限公司 (研发部)

Shenzhen Lxc Electronics Technology Co., Ltd

Model:CL111V1

Customer:

Project Name:

RF Engineer:

Testing Date:2025-4-30

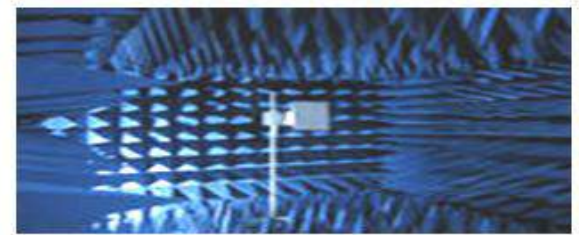
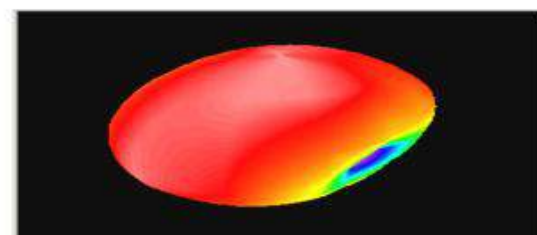
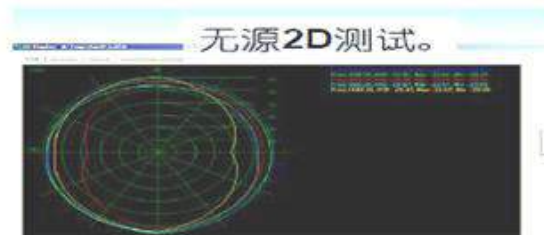
Operating band: WIFI

1. Project brief

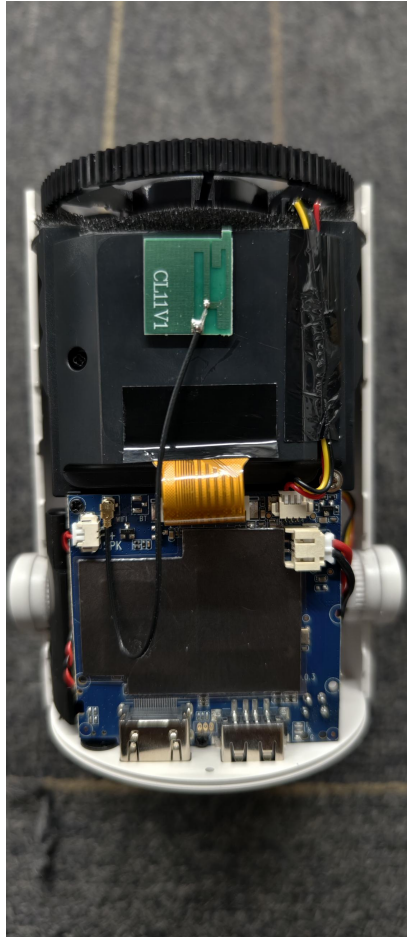
NO.	ITEMS	DETAILS	
1	工作频段 Operating band	wifi	
2	频率范围 Frequency range	2400Mhz-5850Mhz	
3	天线类型 Antenna Type	内置 Built-in	
4	天线材质及实现形式 Antenna material and implementation form	天线采用 PCB 贴在壳上 The antenna is attached to the shell with a PCB	
5	主板版本 The mainboardversion		
6	输入阻抗 Input Impedance	50 (Ω)	
7	增益 Gain		
RF		曾立文	
ME		唐红交	137 1359 3032

2. Test system and equipment

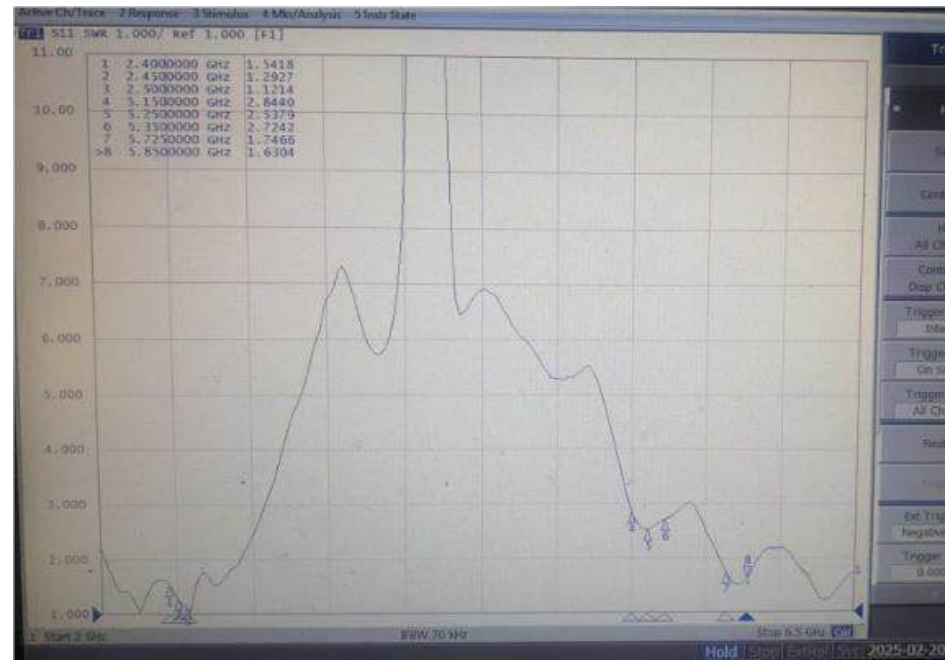
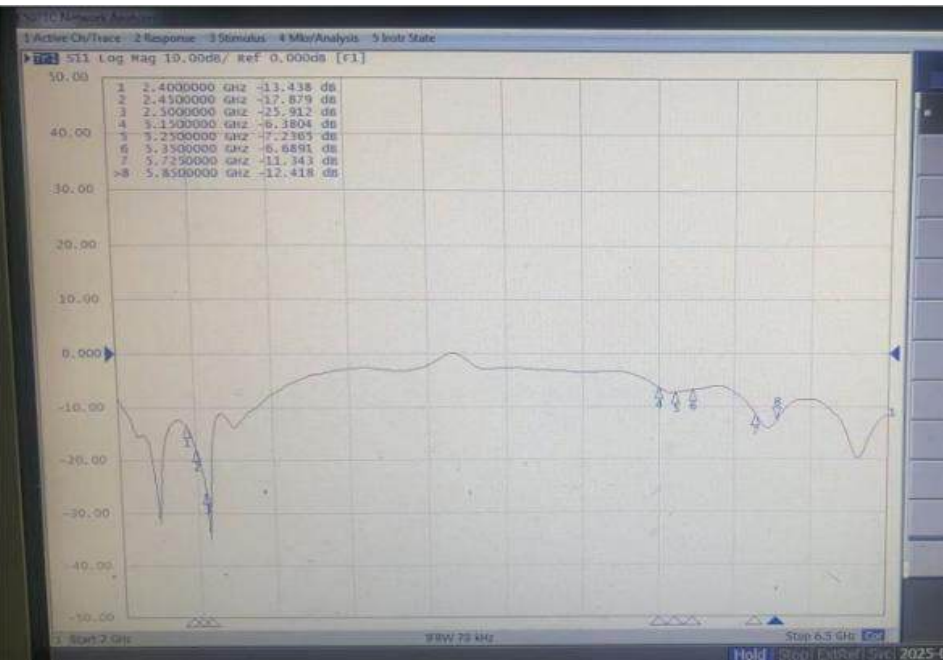
	测试项目 Test items	设备 Equipment
1. S11参数 S11 parameter	1. 回波损耗 2. 驻波比 1.Return loss 2. Standing wave ratio	网络分析仪: HP 8753D/R3765CH Network Analyzer: HP
2. 耦合功率测试 Coupled power test	1. 发射功率 2. 接收灵敏度 1. Transmission power 2. Receiving sensitivity	GSM 测试仪: Agilent 8960 E5515C LTE 测试仪: 8820C/CMW500 GSM Tester: Agilent 8960 E5515C LTE tester: 8820C/CMW500
3. 辐射模式与增益 Radiation Mode and Gain	1. 辐射模式 2. 天线增益 1.Radiation mode 2. Antenna gain	1. 暗室: 7x4x3 m (ETS-3D) 2. 网络分析仪: HP 8753D 1. Darkroom :7x4x3 m(ETS-3D)1 2. Network Analyzer :HP 8753D



天线位置 Antenna position



WIFI- (S11\VSWR)



无源测试数据

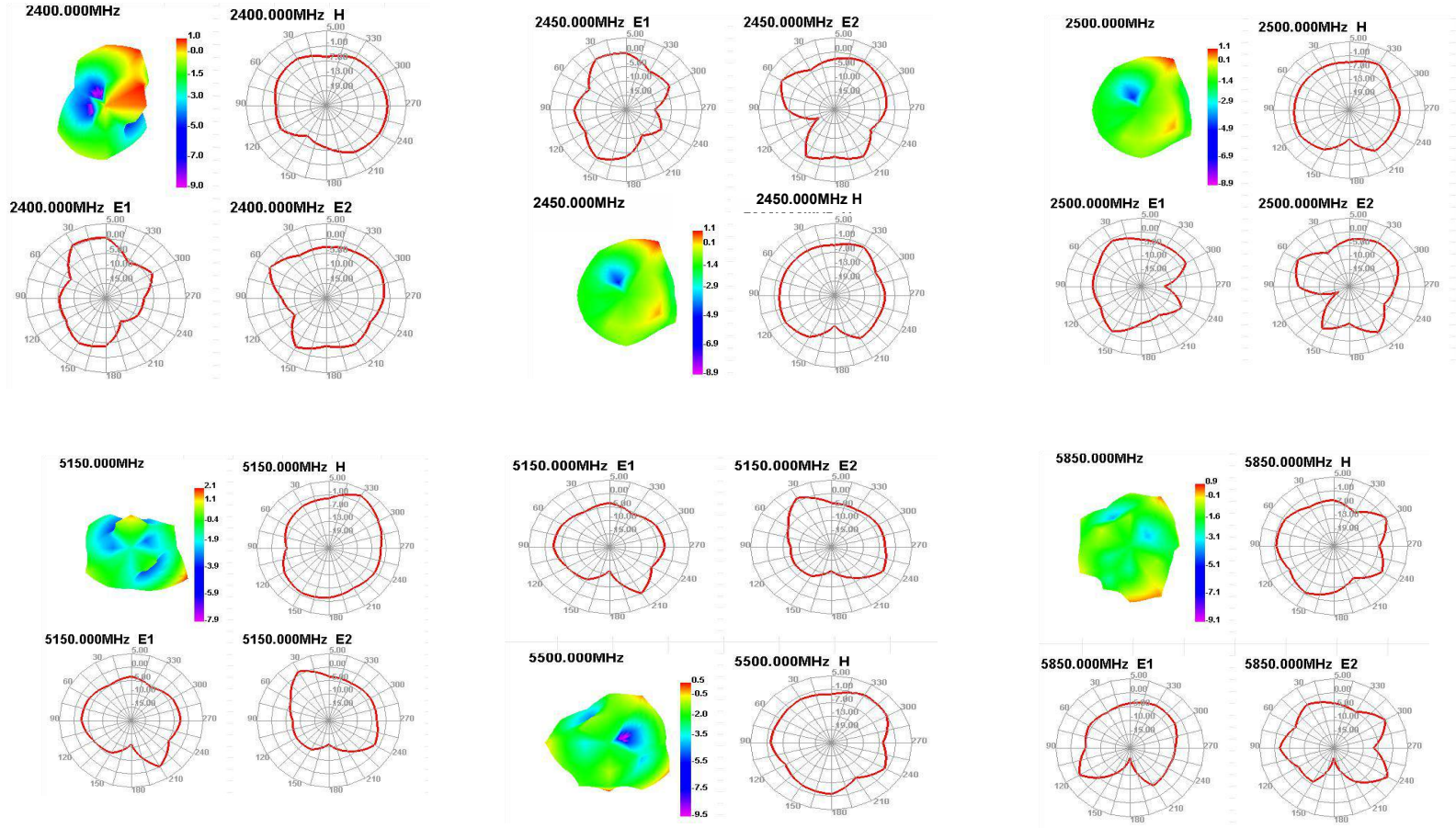
Passive test data

Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	40.54	0.99
2410	40.49	1.13
2420	40.62	0.84
2430	40.77	0.88
2440	42.93	1.19
2450	44	1.10
2460	43.91	1.67
2470	44.71	1.22
2480	44.99	1.18
2490	43.82	1.33
2500	44.1	1.10

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5150	42.89	2.09
5350	43.24	2.26
5550	44.53	0.53
5650	44.02	2.14
5850	41.17	0.91



2D-3D 效率增益 2D-3D GAIN



整机有源测试数据

Active test data of the entire machine

WiFi(2.4G/B)	CH	功率(11M)	灵敏度(11M)	WiFi(2.4G/N)	CH	功率(MCS7)	灵敏度(MCS7)
	1	14.96	-69.89		1	13.15	-62.12
	6	14.56	-70.06		6	13.26	-62.35
	11	13.16	-69.93		11	12.28	-62.28
WiFi(2.4G/G)	CH	功率(54M)	灵敏度(54M)	WiFi(5G/A)	CH	功率(54M)	灵敏度(54M)
	1	13.78	-64.16		36	13.89	-69.53
	6	13.26	-64.38		149	13.76	-69.47
	11	12.89	-64.65		165	13.65	-69.26



The end , thanks!

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