



Shenzhen Yangyue Electronic Communication Technology Co., Ltd.

Customer : 文汇

Project Name: 插座2.4G

RF Engineer: 钟海明

Testing Date: 2025-1-3

FrequencyRange: WIFI2.4G



Revision History

Date	Revision	Description of changes
2025-1-3	TA	UC



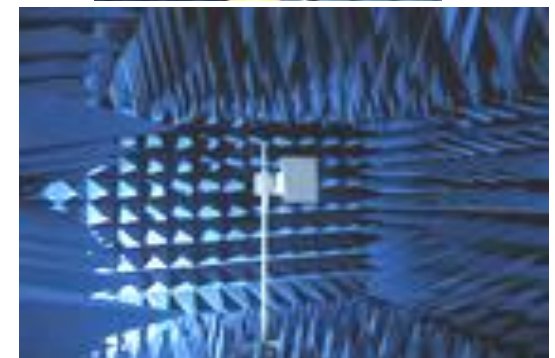
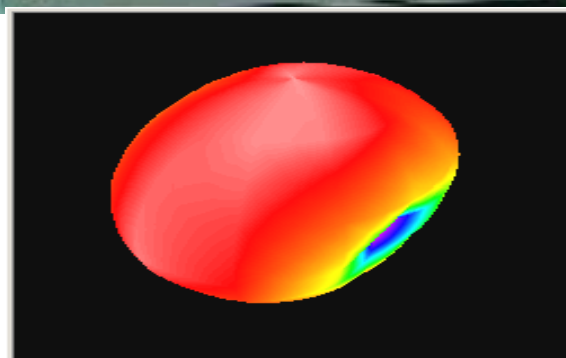
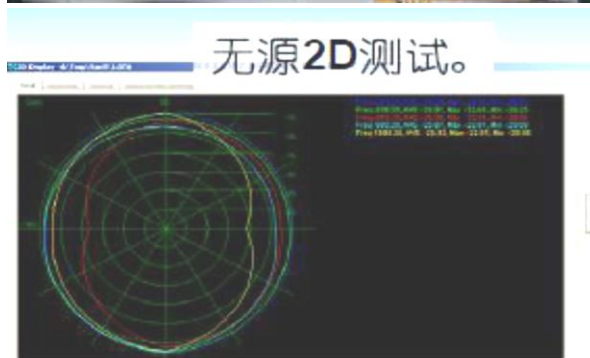
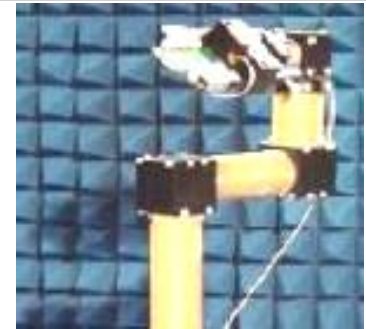
1. Project brief

NO.	ITEMS	DETAILS	
1	工作频段 Operating band	WiFi2.4G	
2	频率范围 Frequency range	WiFi:2400~2500(MHz)	
3	天线类型 Antenna Type	IFA	
4	天线材质及实现形式	PCB	
5	天线型号 Antenna Model Name	2.4GHz PCB ANT	
6	输入阻抗 InputImpedance	50 (Ω)	
7	增益 Gain		
8	极化方式 Polarization	垂直极化 +水平极化	
RF		钟海明	
ME			



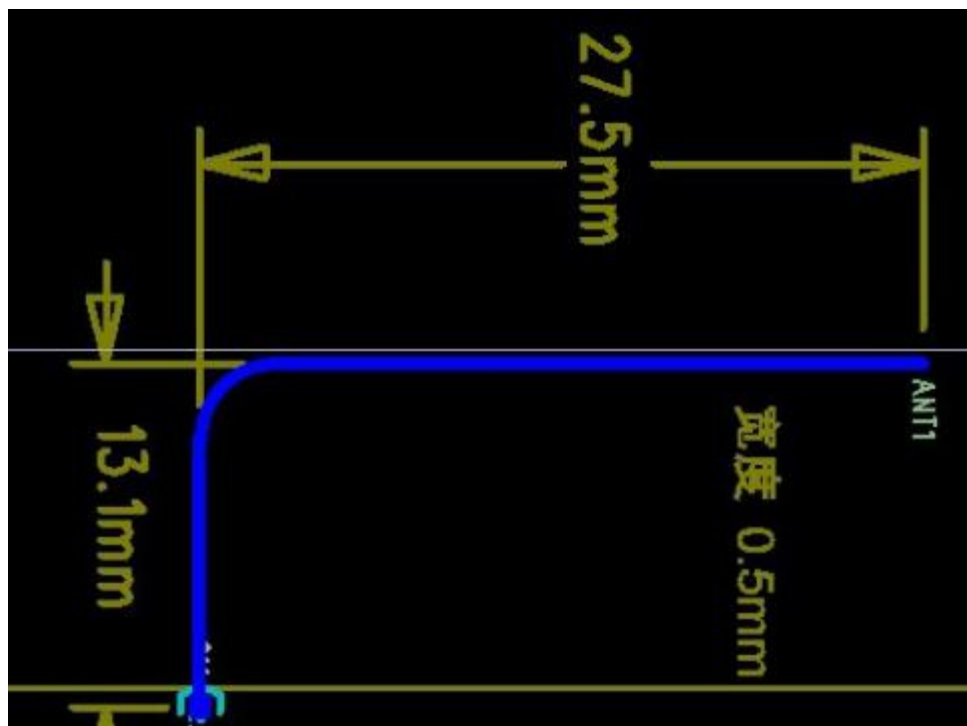
2. Test system and equipment

	测试项目	设备
1. S参数	1. 回波损耗 2. 驻波比	网络分析仪:5071C
2. 耦合功率测试	1. 发射功率 2. 接收灵敏度	Agilent 8960 E5515C CMW500
3. 辐射模式与增益	1. 辐射模式 2. 天线增益	1. 暗室: 5x3x3 m (ETS-3D) 2. 网络分析仪: 5071C





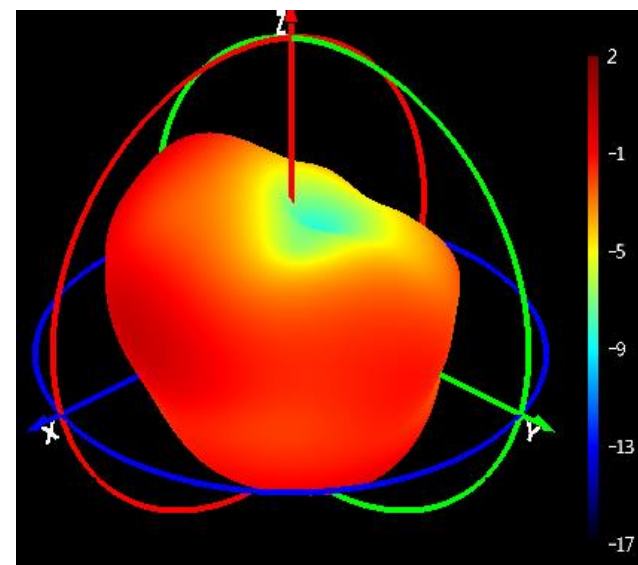
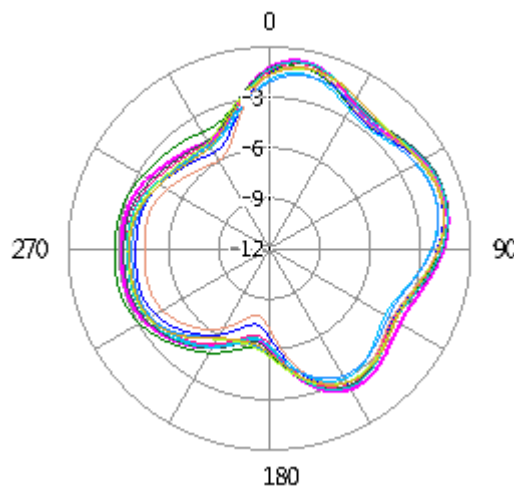
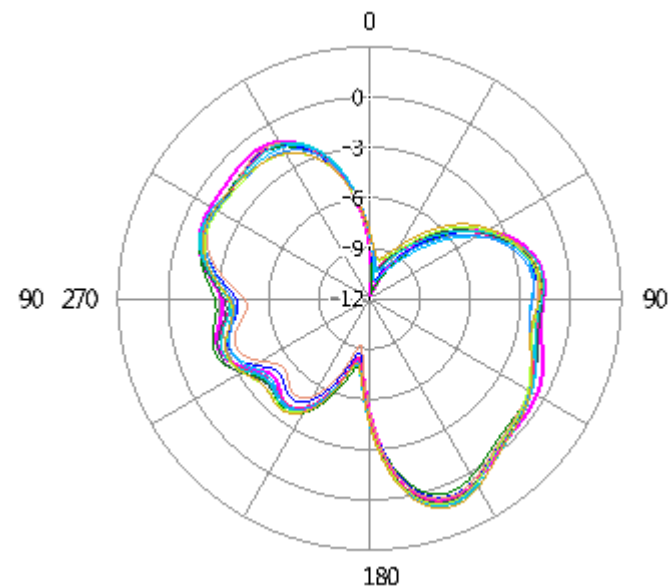
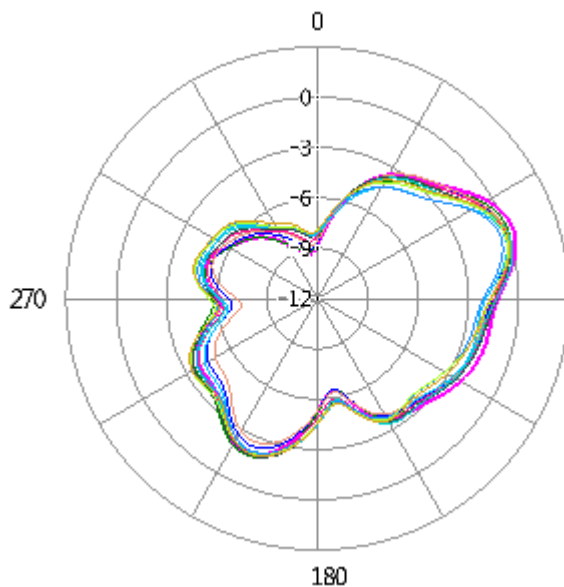
天线实物及物理尺寸：





无源数据

频率 (MHz)	增益 (dBi)	效率 (%)
2400	1.11	40.05
2410	1.16	41.07
2420	1.25	41.68
2430	1.38	42.93
2440	1.46	43.45
2450	1.55	43.60
2460	1.34	42.47
2470	1.23	42.23
2480	1.17	40.26
2490	1.14	41.20
2500	1.2	41.22





SWR/S11/SMITH





The end , thanks!

深圳市扬跃电子通信科技有限公司

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