

深圳市云希科技有限公司

ShenZhen Yunxi Technology Co.,Ltd.

Antenna test Report

Customer: 同集

Project Name: 魔方底座

RF Engineer: 向工

Testing Date: 2025-06-19

Operating band: WIFI

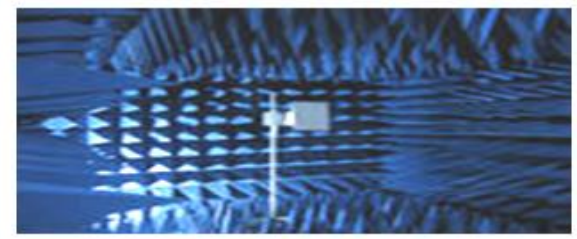
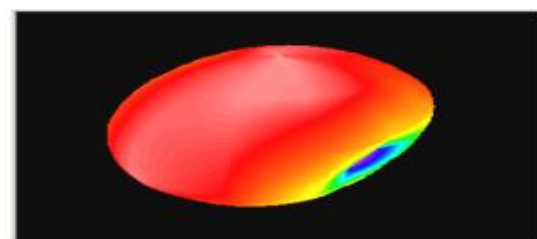
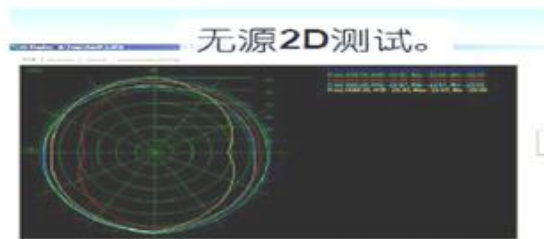


Project brief

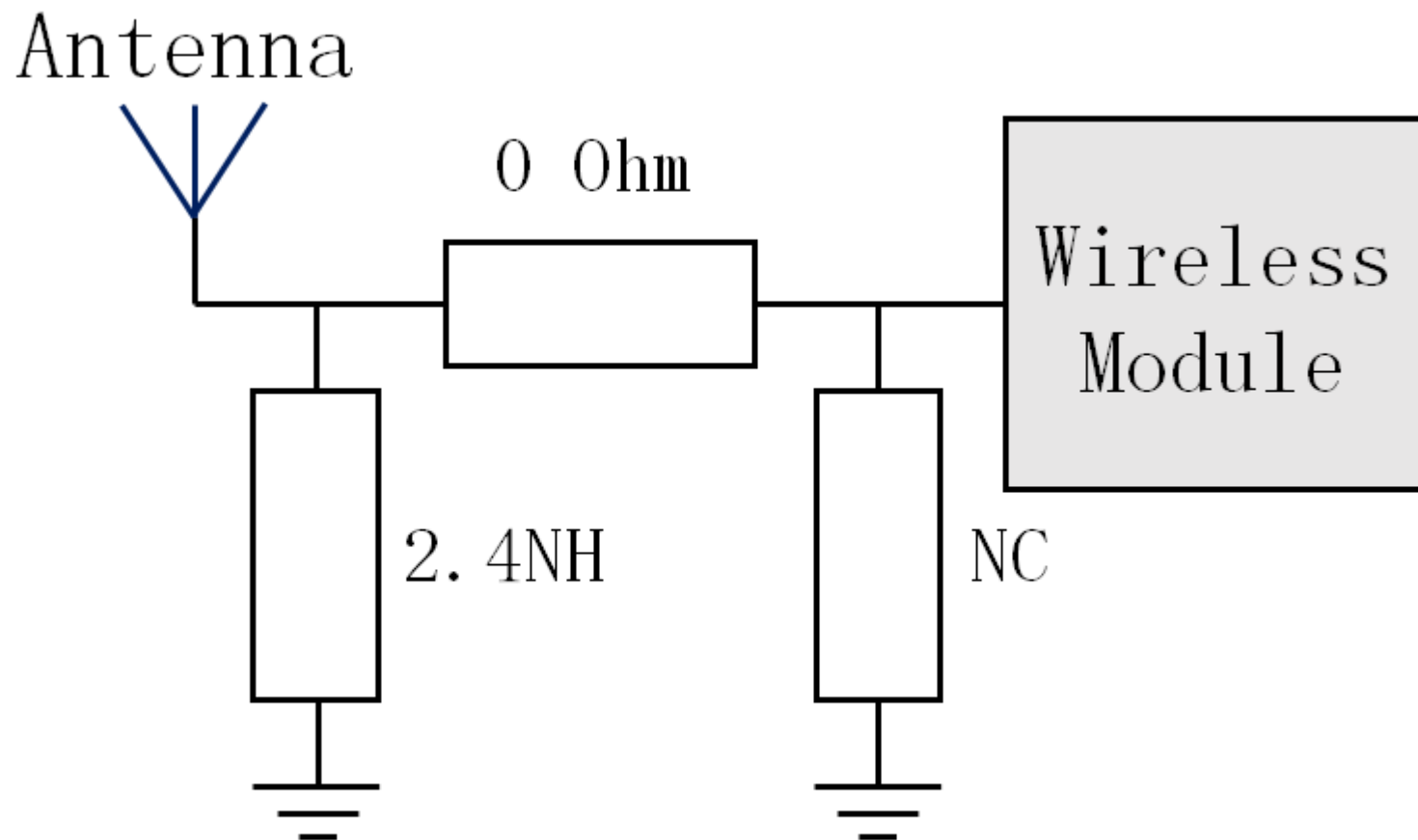
NO.	ITEMS	DETAILS
1	工作频段 Operating band	
2	频率范围 Frequency range	2400~2500MHz
3	天线类型 Antenna Type	内置
4	天线材质及实现形式	贴片天线
5	天线料号 Antenna part number	F245M01ZYL-3216-1.2
	天线料号 Antenna part number	
6	输入阻抗 Input Impedance	50（Ω）
7	增益 Gain	
	RF	向工
	ME	张工

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: HP E5071C/Agilent8753D
2. 耦合功率测试	1. 发射功率 2. 接收灵敏度	GSM 测试仪: Agilent 8960 LTE 测试仪: CMW500
3. 辐射模式与增益	1. 辐射模式 2. 天线增益	1. 暗室: 7x4x3 m (ETS-3D) 2. 网络分析仪: HP Agilent8753ES



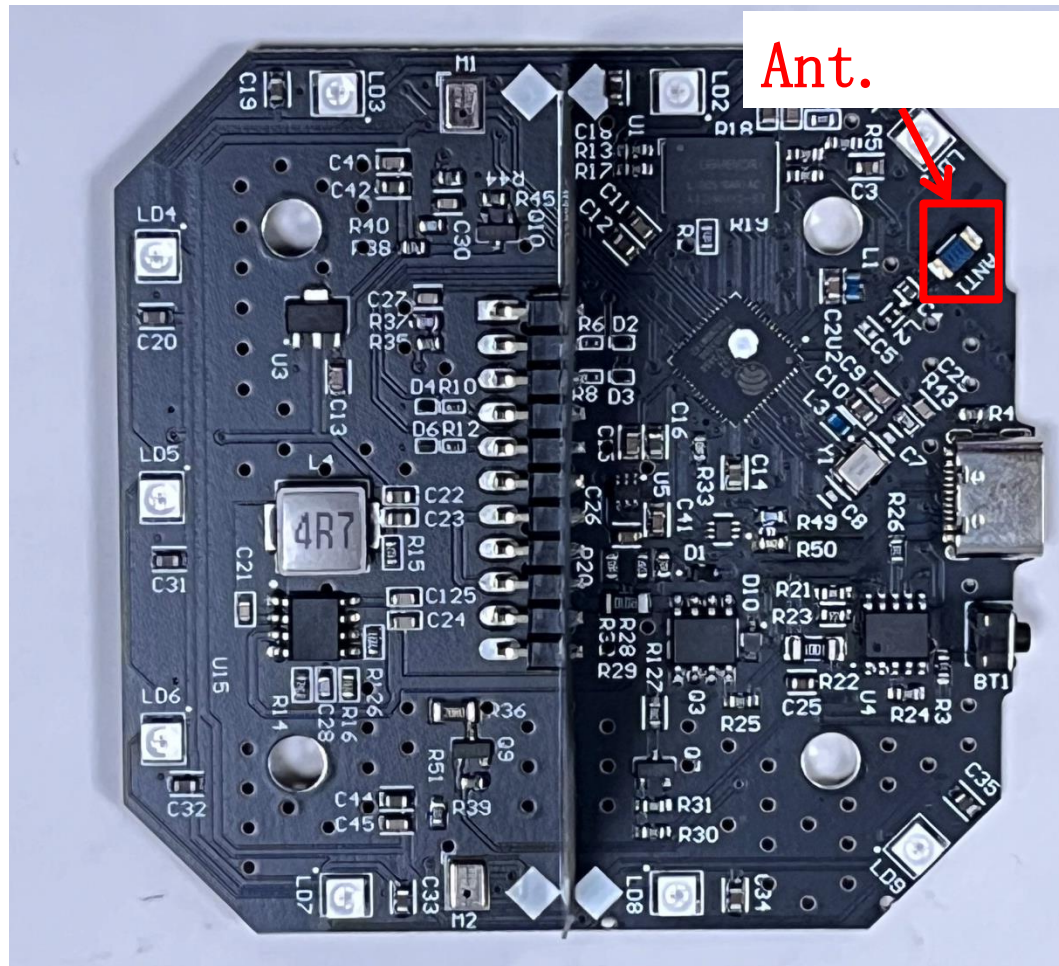
天线匹配



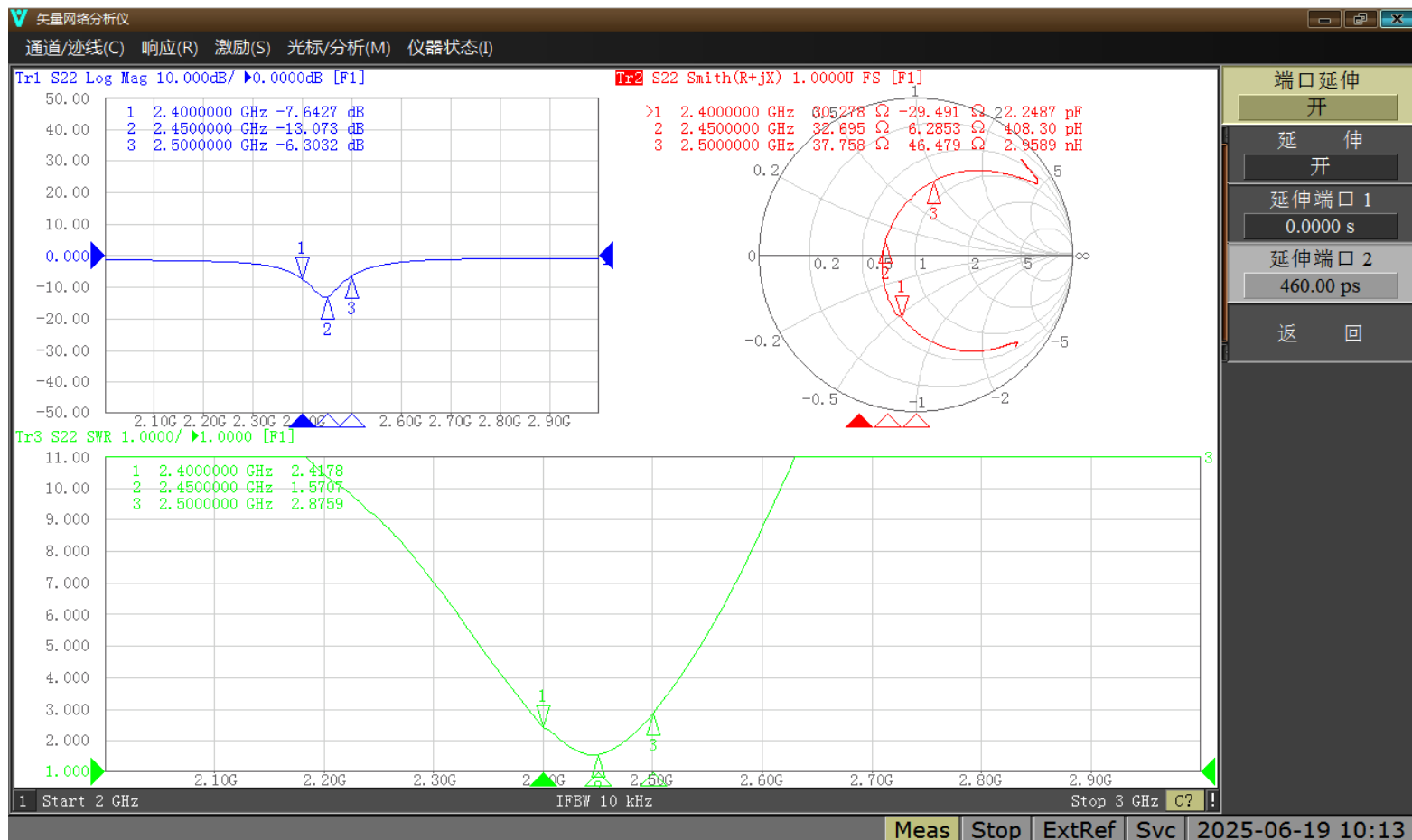
Antenna assembly environment processing diagram

Size Code

1.6x0.8mm(± 0.1 mm)



Antenna Performance Test



Antenna Passive Test

Passive Test			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	26.0	-5.8	-2.2
2410	26.8	-5.7	-2.1
2420	27.6	-5.6	-1.9
2430	28.4	-5.5	-1.9
2440	29.1	-5.4	-1.7
2450	29.7	-5.3	-1.6
2460	29.1	-5.4	-1.5
2470	28.9	-5.4	-1.3
2480	27.6	-5.6	-1.2
2490	26.6	-5.8	-0.9
2500	25.0	-6.0	-0.8