



深圳市国质信网络通讯有限公司  
ShenZhen NQI network communication ltd

# Antenna Test Report

For

Project SH-301

Version: V1

<b>Customer</b>	和宏	<b>Project</b>	SH-301
<b>Band</b>	BT	<b>Color</b>	
<b>Issued by</b>	冯工	<b>Checked by</b>	
<b>Confirmed by</b>		<b>Date</b>	2025.5.15

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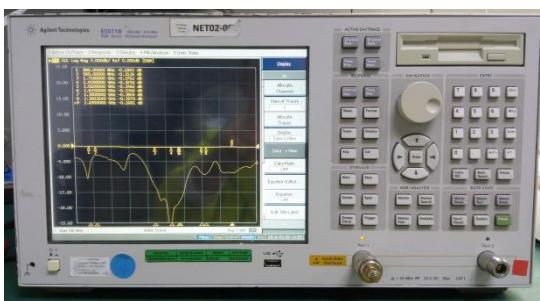
## 一. 测试设备

	测试项目	设备
1. S 参数	1. 回波损耗(RL) 2. 驻波比 (VSWR)	网络分析仪: Agilent E5071B RS ZVB8
2. 耦合测试	1. 发射功率 (MAX Power) 2. 接收灵敏度 (MIN Sens)	1.2G/3G 测试设备: Agilent 8960 2. 微波暗室: 广屏 ETS 3D Chamber (5x3x3)
3. 3D 无源测试 (Passive Test)	1. 效率 ( $\eta$ ) 2. 增益 (Gain) 3. 辐射方向图	1. 微波暗室: TEM24 3D Chamber (5x5x5) 广屏 ETS 3D Chamber (5x3x3) 2. 网络分析仪: Agilent E5071B
4. 3D 有源测试 (Active Test)	1. 3D 功率 (TRP) 2. 3D 灵敏度 (TIS) 3. 吞吐测试 4. 人头手测试 5. 人头耳测试	1. 微波暗室: TEM24 3D Chamber (5x5x5) 广屏 ETS 3D Chamber (5x3x3) 2.2G/3G 测试设备: Agilent 8960 3.4G 测试设备: 安立 MT8820C/CMW500 4. WIFI/BT/NB-iot 测试设备: CMW500 5. 5G 测试设备: 星河亮点 SP9500-CTS





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## 二. Definitions

VSWR: Voltage Standing Wave Rate

TRP: total radiated power

TIS: total isotropic sensitivity

## 三 . Cell-Phone Photo and Dealing Methord

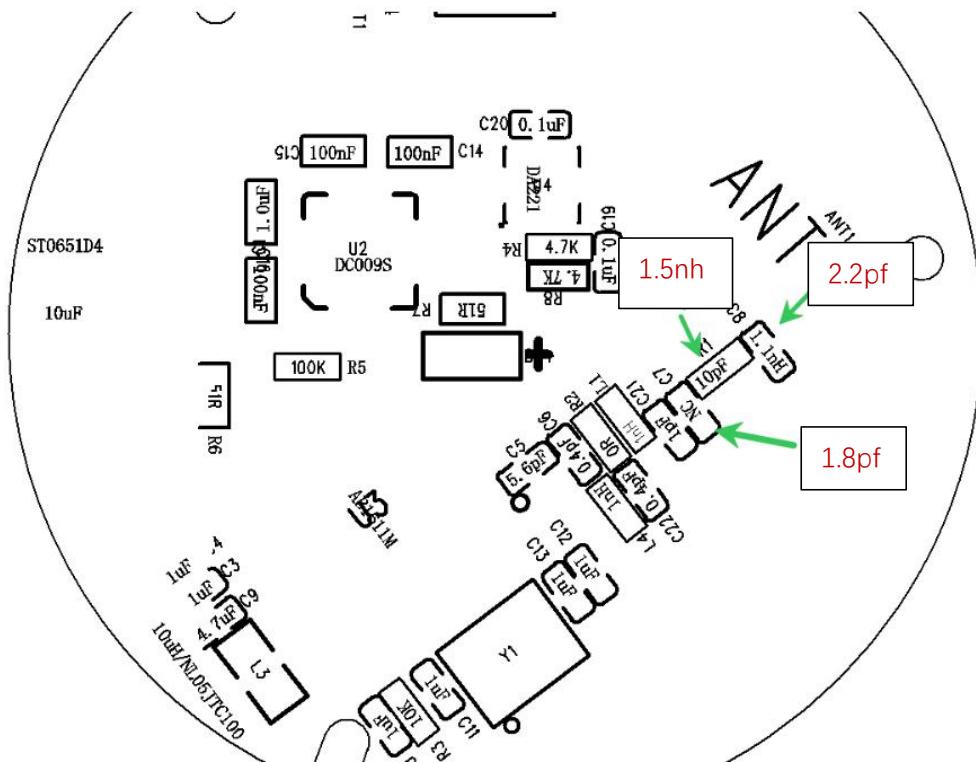


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#### 四. 匹配电路



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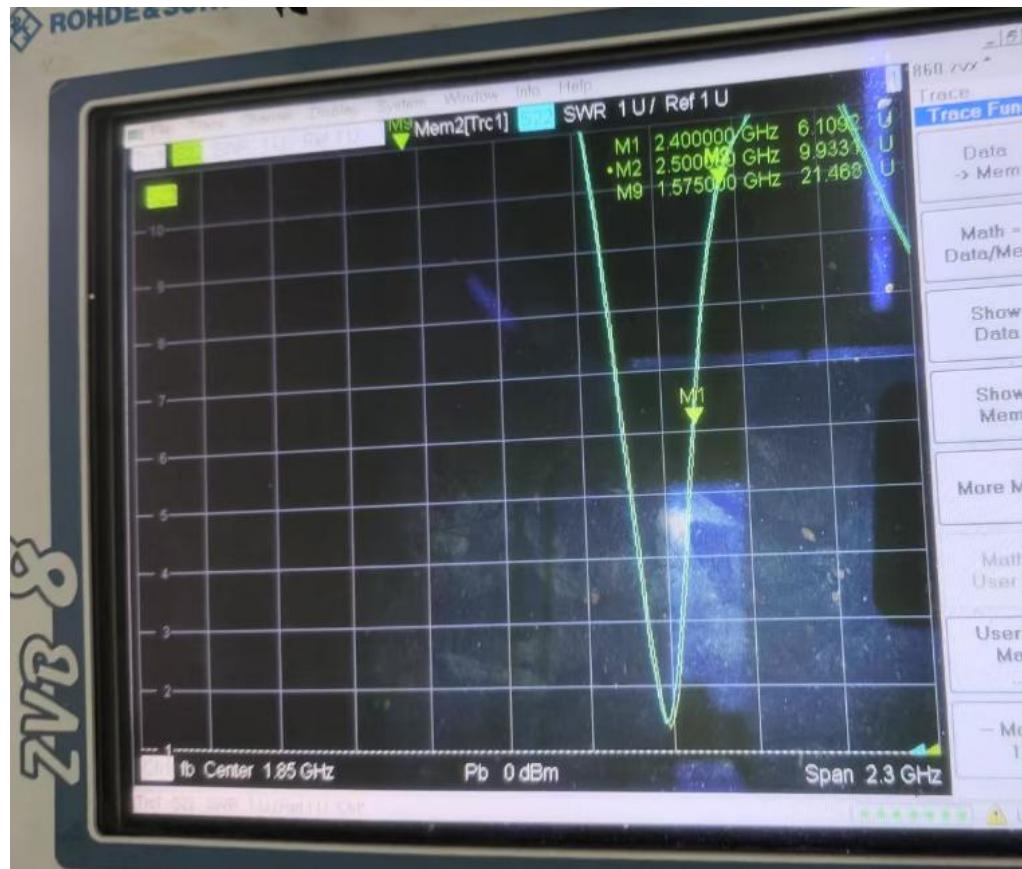


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## 五.无源测试

原天线无源

(原天线匹配装整机后频偏比较大, 只看了无源, 没测效率)

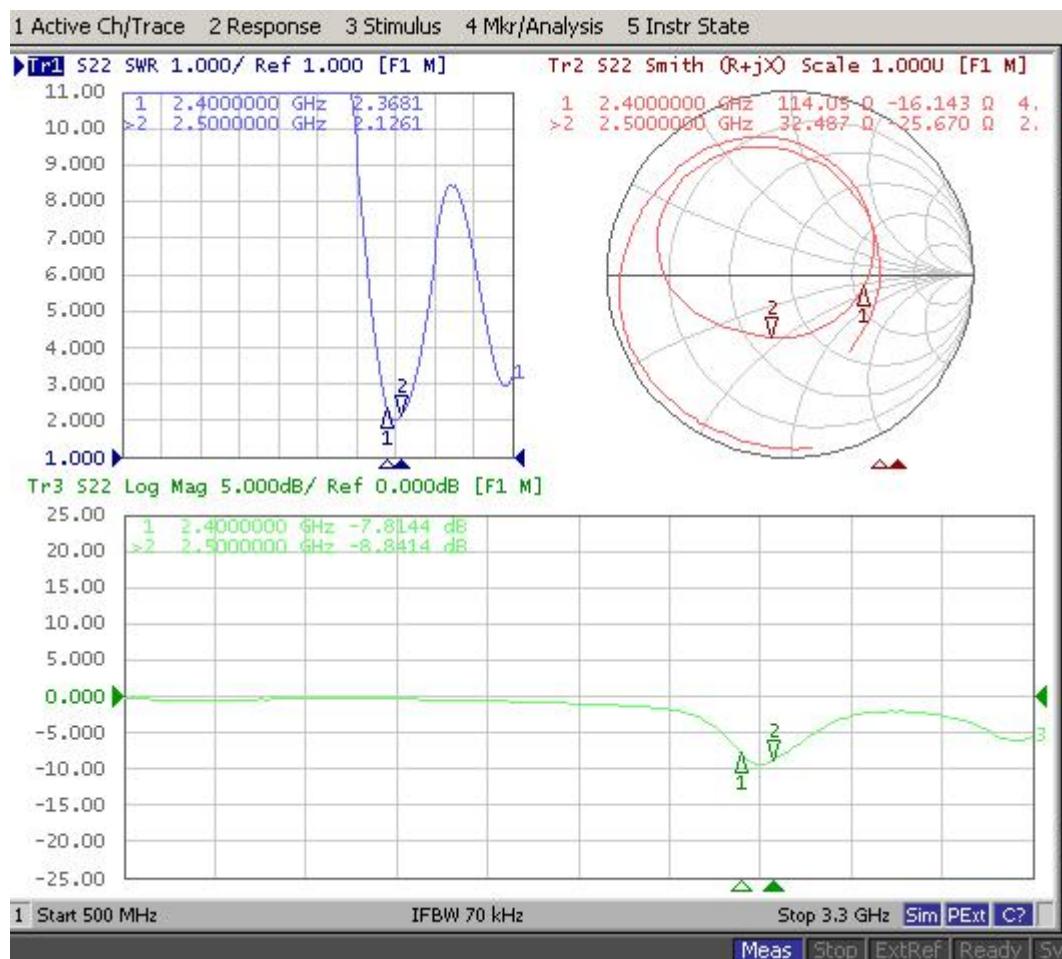


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优化匹配后

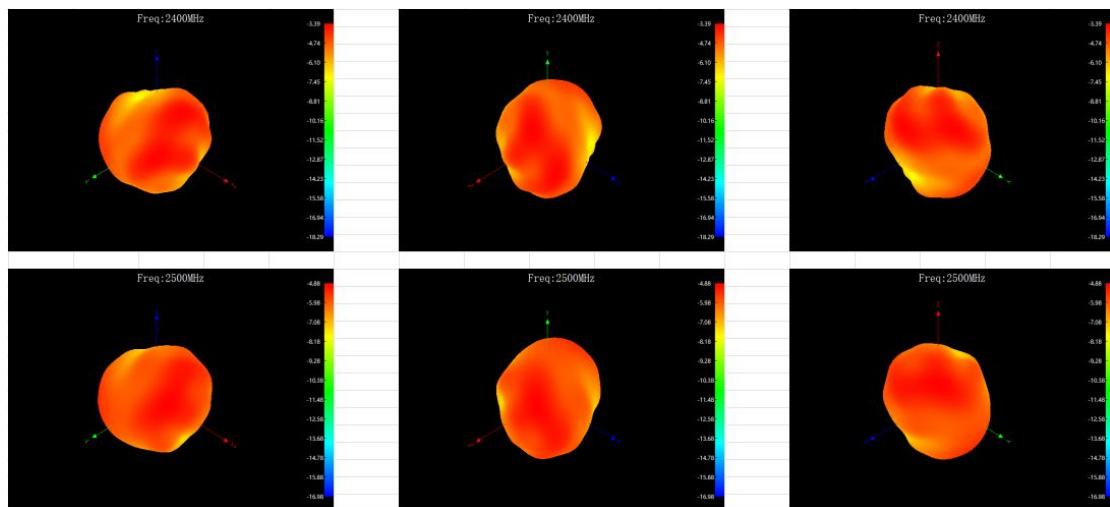


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Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	16.11	-3.39
2410	15.49	-3.23
2420	15.96	-3.51
2430	15.85	-3.56
2440	16.41	-3.77
2450	16.44	-3.72
2460	16.52	-3.77
2470	15.85	-4.13
2480	14.35	-4.23
2490	14.61	-4.63
2500	14.65	-4.88



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