

天线测试报告

产品名称:	无线发射、接收模块
产品型号:	WL3UR1510
频 率:	2.4GHz
检测日期:	2025-06-12
检测目的:	天线性能测试
拟 制:	许冰
审 核:	郑伟
批 准:	高照

测试结果:

驻波: 2.4GHz 的驻波<1.5
效率: 2.4GHz 在 70%~80%
增益 (Max): 2.4GHz 在 1.64~2.29dBi

Revision history

版本	日期	状态
V1.0	2025-06-12	首版

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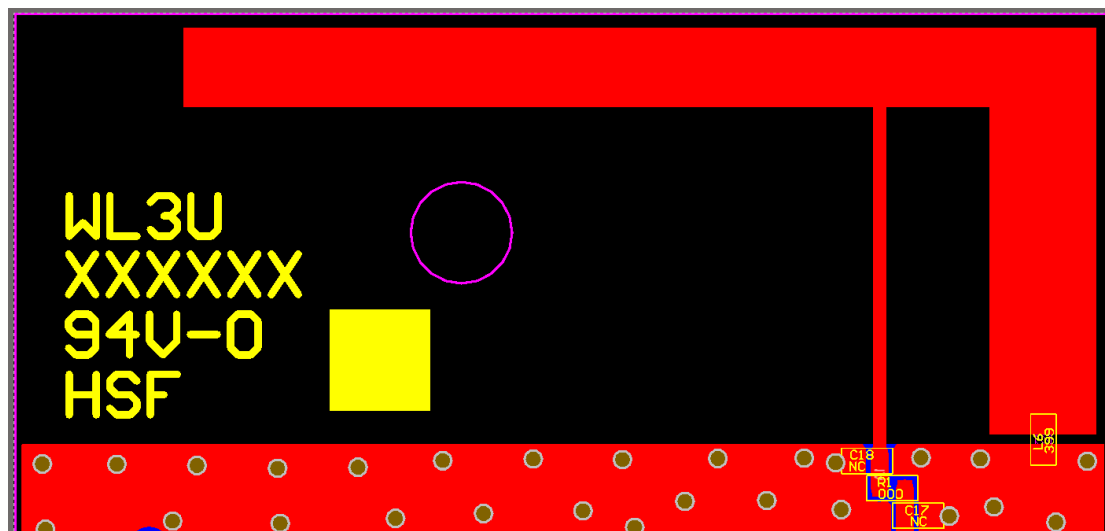
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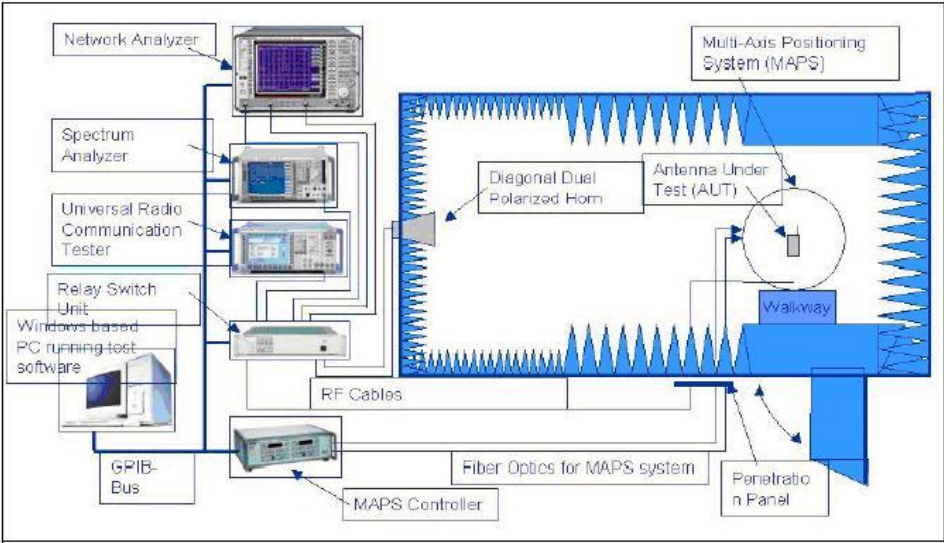
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1、天线位置

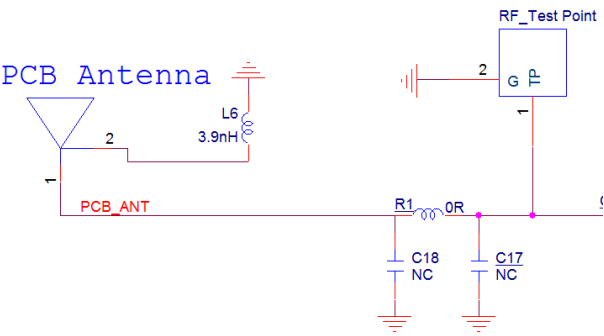


2、测试环境



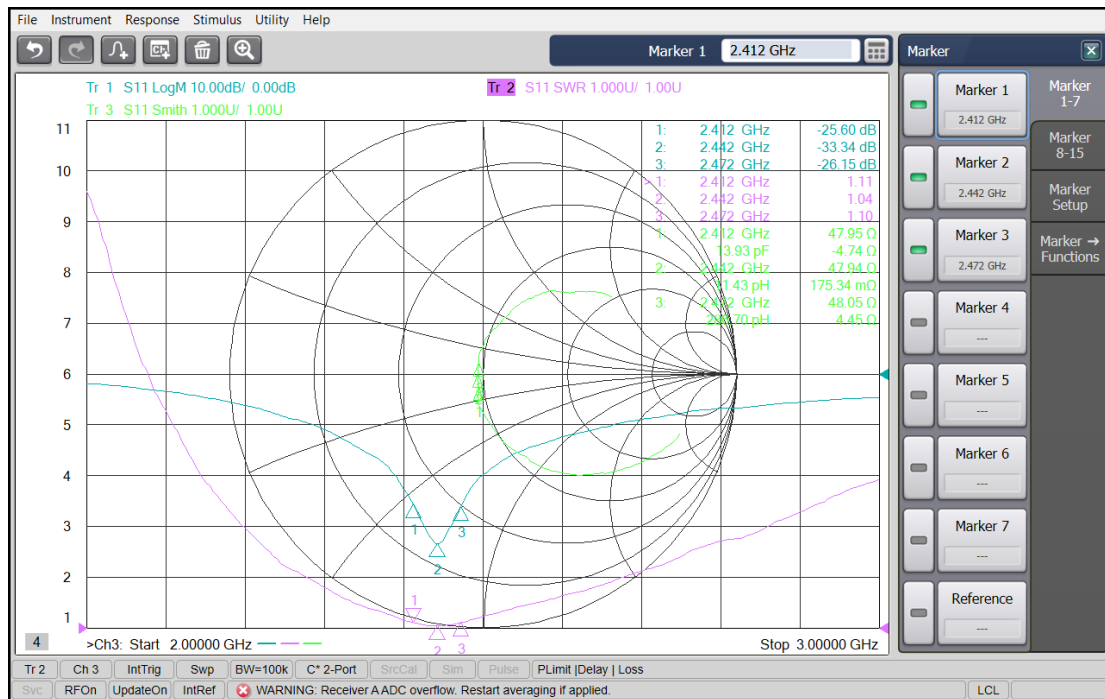


3、天线匹配



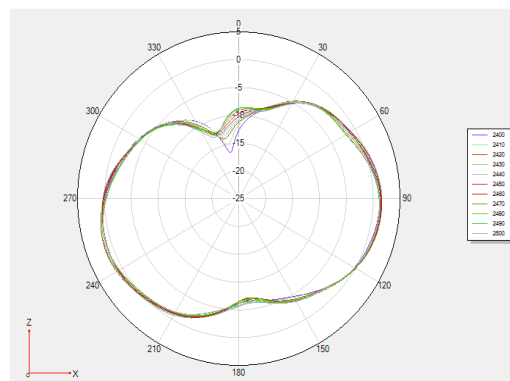
匹配说明	WF0
C17	/
R1	0Ω
C18	/
L6	3.9nH

4、天线驻波比 ($\leq 2\text{dB}$)

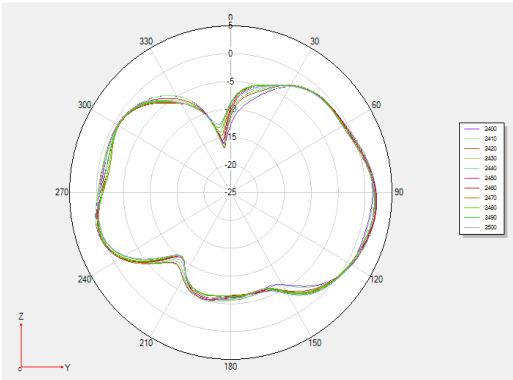


5、方向图

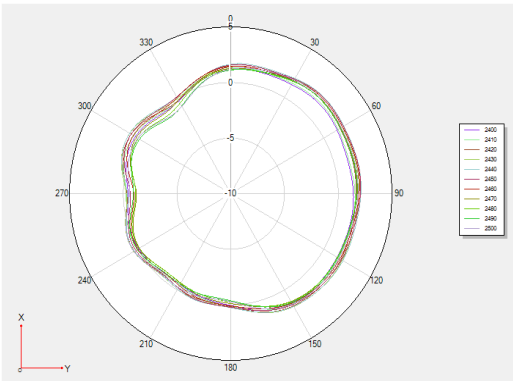
Phi 0 2D



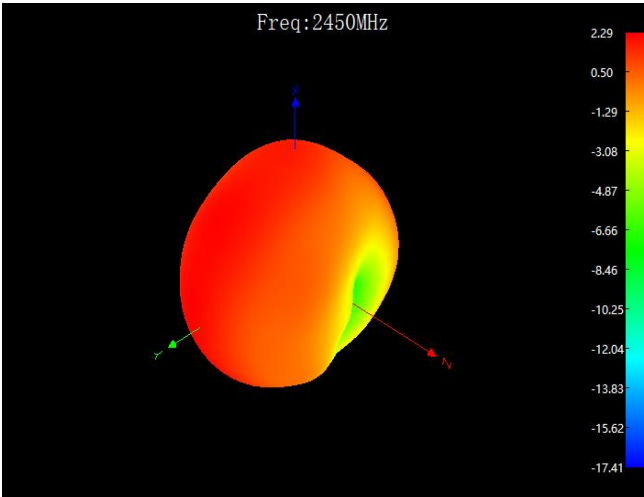
Phi 90 2D

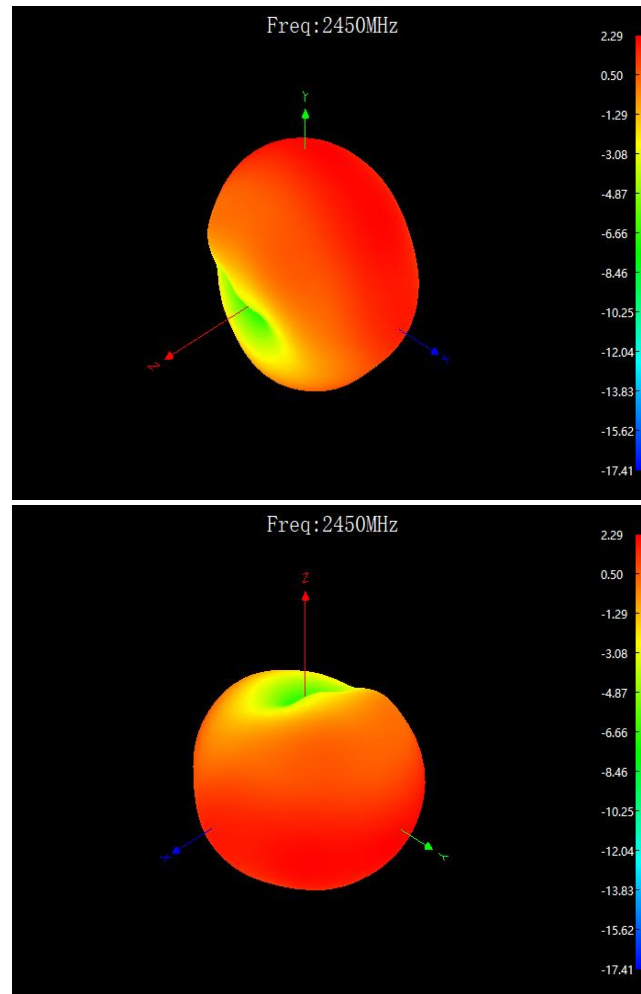


Theta 90 2D



6、3D Etotal





7、效率与增益

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	1.64	75.51
2410	1.83	77.27
2420	2.08	78.16
2430	2.24	78.52
2440	2.29	77.98
2450	2.29	76.21
2460	2.2	74.13
2470	2	72.44
2480	1.96	72.44
2490	1.94	72.61
2500	2.04	73.45