

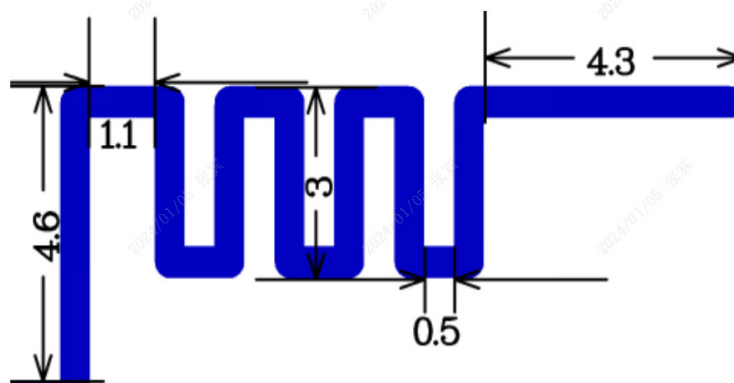
Antenna Specification

Project name	KU004
ITEM	SPEC.
Model Name	BT2.4G
Polarization	Vertical
Gain	2.4G<-2.17
Impedance	50 Ω
Weight	/
Product description	PCB Antenna
Antenna Length	
Manufacturer	Ugreen Group Limited

产品图片 (Product picture)

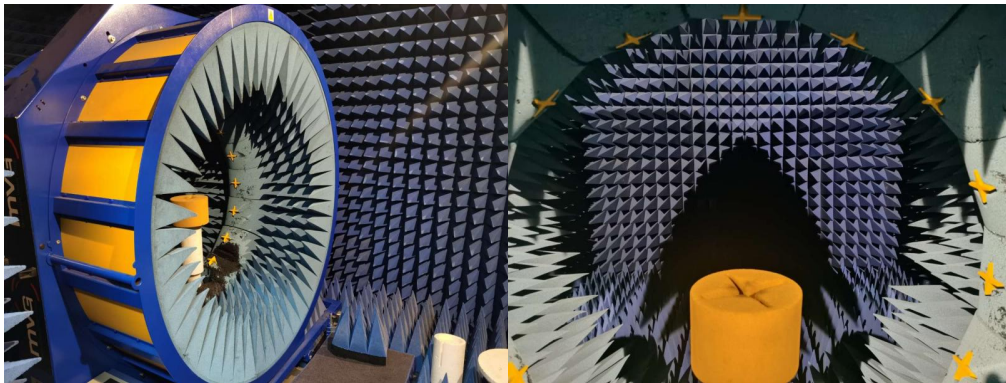


天线尺寸 (单位: mm)

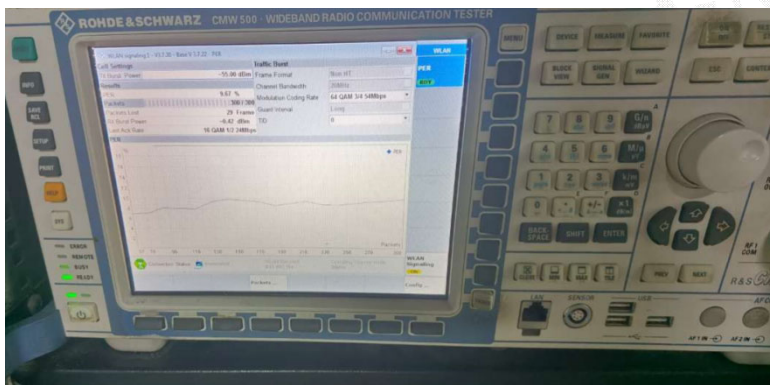


测试环境

Satimo 暗室



CMW-500 综测仪

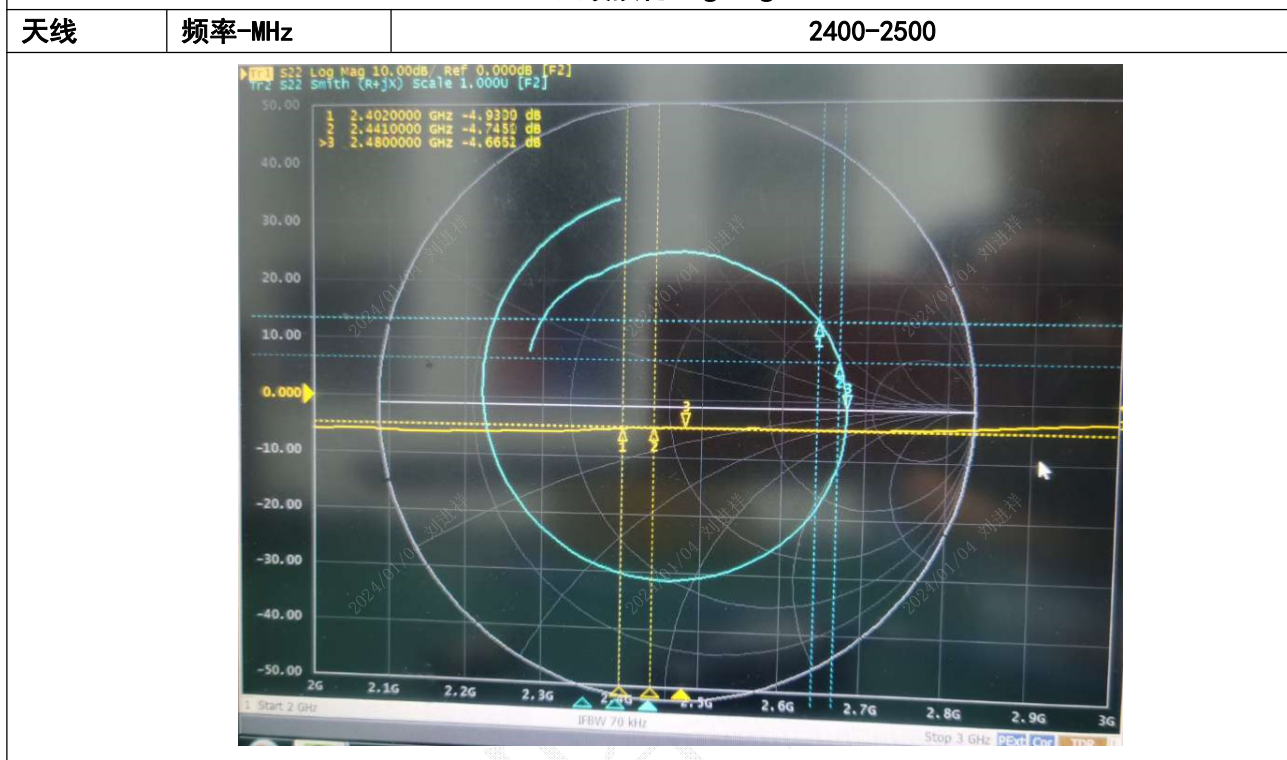


Agilent 安捷伦网络分析仪

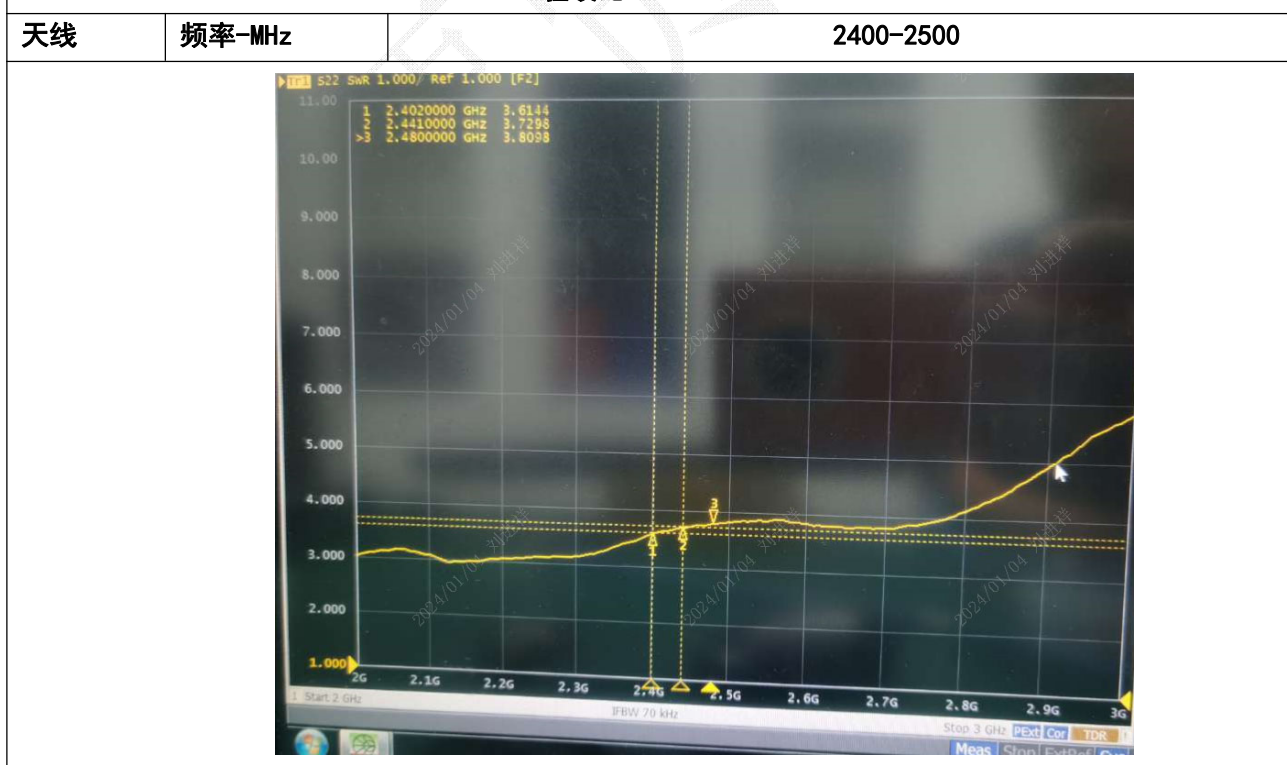


天线 Antenna						
序号 Num	检验项目 Inspection item	单位 unit	性能指标要求 Performance index requirement	检验结果 Result		判 决 Verdict
1	频率范围 Frequency range	MHz	2400-2483.5	2400-2483.5		OK
2	增 益 Gain	dBi	/	2400	-2.17	
				2440	-2.47	
				2480	-2.8	
4	回波损耗 Return loss	dB	≤ -6	2400	-4.93	
				2440	-4.74	
				2480	-4.66	
4	驻波比 S11	dB	/	2400	3.61	
				2440	3.72	
				2480	3.80	

回波损耗 Log Mag S11



驻波比 SWR

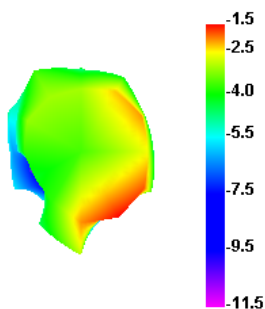


辐射参数测试 Radiation parameter test

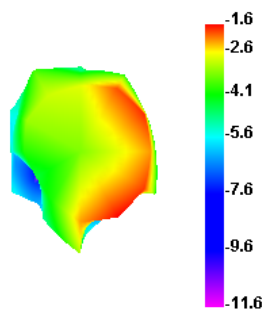
天线 Antenna

辐射方向图 (2.4G Radiation pattern)

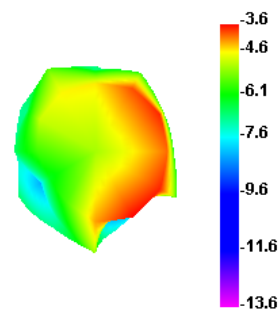
2400.000MHz



2440.000MHz

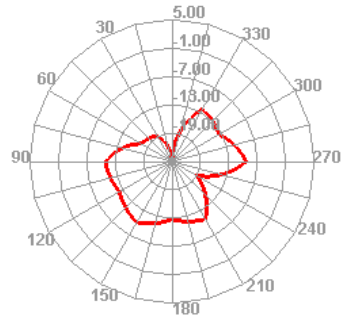


2480.000MHz

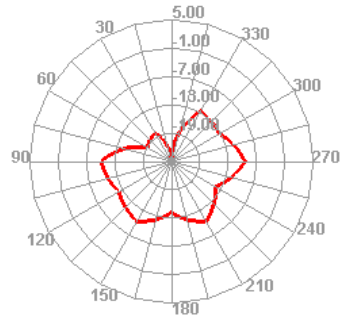


Horizontal plane

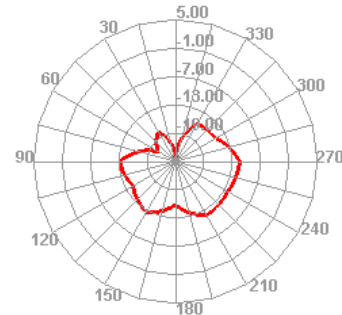
2400.000MHz H



2440.000MHz H

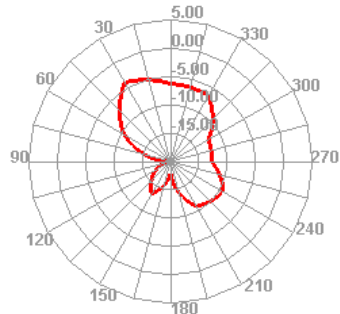


2480.000MHz H

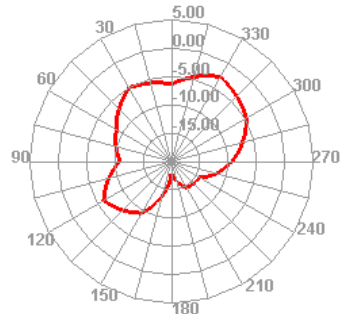


Vertical plane

2400.000MHz E1



2400.000MHz E2





天线无源效率 Antenna Gain&Efficiency

Frequency	E Total. dB(dBi)	Efficiency(%)
2400MHz	-2.17	17.66
2410MHz	-2.56	16.83
2420MHz	-2.21	18.19
2430MHz	-2.73	16.27
2440MHz	-2.47	17.45
2450MHz	-2.34	18.51
2460MHz	-2.55	18.27
2470MHz	-3.59	15.29
2480MHz	-2.8	18.42
2490MHz	-1.88	22.52
2500MHz	-2.03	21.73