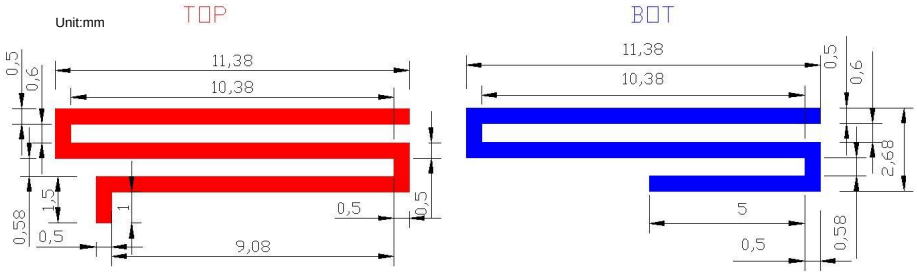
天线型号（Antenna Version）： ANT-BBNCNC22010
产品型号（Model of the DUT）：MS52SF1
PCB 编号及版本（PCB number and version）：MS52SF1_V1.0
责任硬件工程师（ Hardware Engineer）：李金倍
测试日期（Test Data）： 2022/10/13

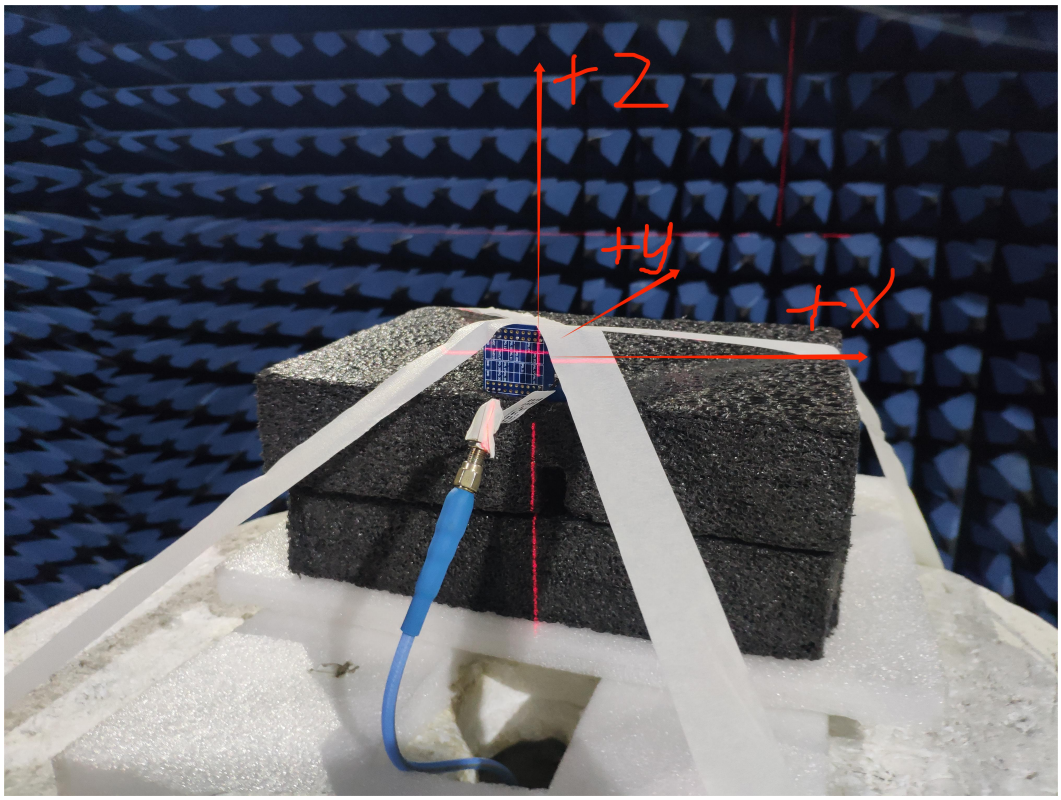
1、技术指标 (Technical Specification)

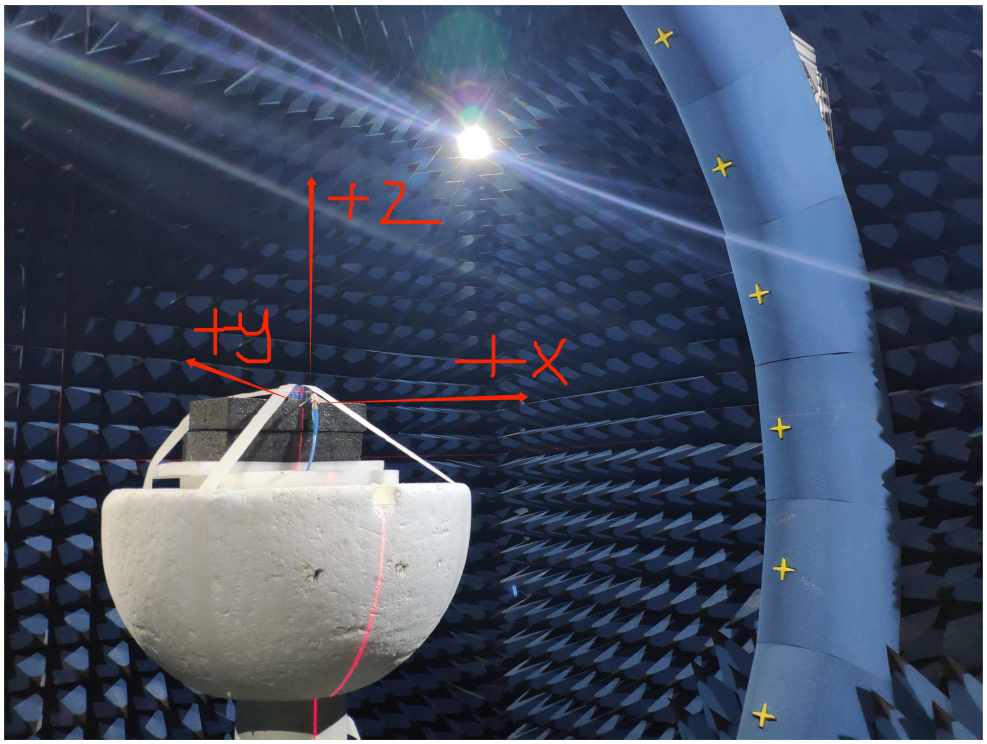
电性能指标 Electrical Specifications	
频率范围 Frequency Range （MHz）	2400-2480
频带宽度 Bandwidth (-10dB) （MHz）	209
输入阻抗 Input Impedance （Ω）	50
回波损耗 Return Loss（dB）	＜-13.609
电压驻波比 VSWR	＜1.53
增益 Gain (@2.44GHz) （dBi）	1.77
峰值增益 Peak Gain （dBi）	2.33
极化形式 Polarization Type	线极化
雷电保护 Lightning Protection	直流接地 （DC grounding）
功率容量 Power Capacity （mW）	1000
机械指标 Mechanical Specifications	
天线尺寸 Antenna Size (mm)	11.38*3.68mm
辐射体 Radiator	铜 Cuprum
连接器型号 Connect Type	无
工作温度 Working Temperature （℃）	-40~+85
存储温度 Storage Temperature （℃）	-40~+85

2、天线外形和尺寸（the shape and size of the antenna）

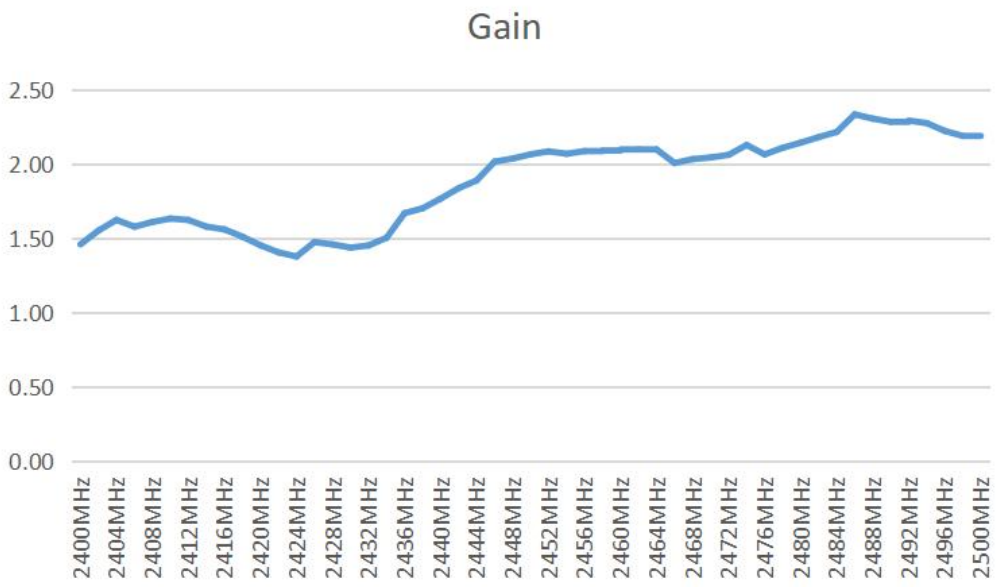


3、测试结果（The result of the test）

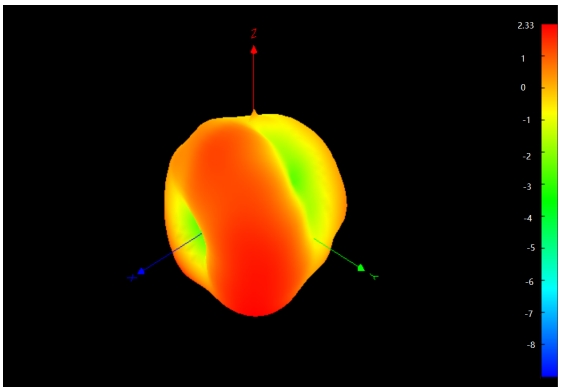




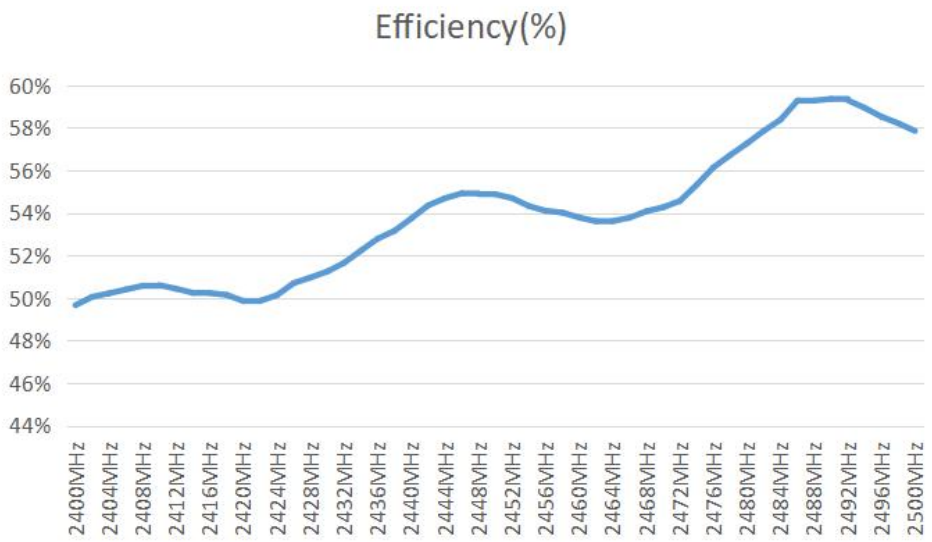
3.1 增益 （Gain）



Freq/MHz	2400	2440	2488	2500
Gain/dBi	1.40	1.82	2.33	2.12

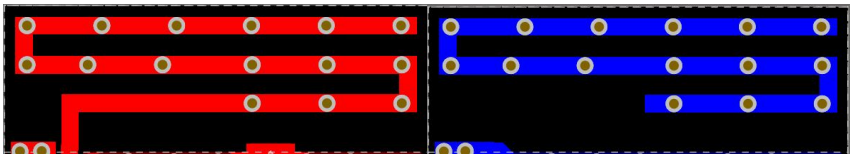


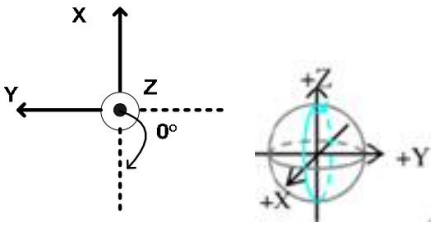
3.2 效率 (Efficiency)

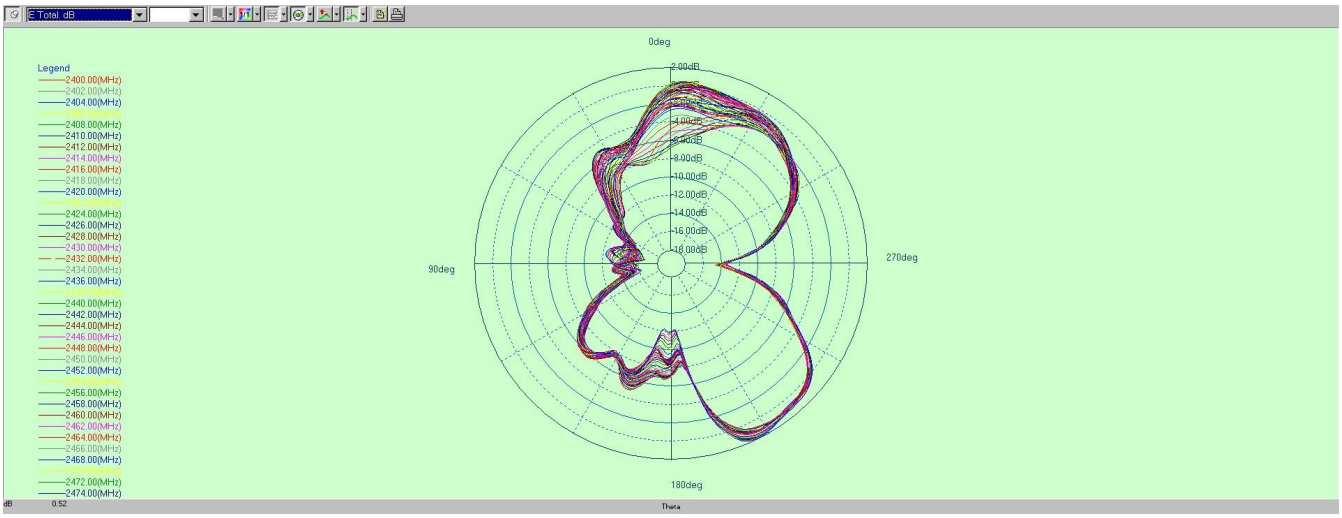


备注：效率两种表达方式之间的关系：效率（dB）=10lg(效率的百分比)
Note: the relationship between the two expressions of efficiency: efficiency (DB) = 10lg (percentage of efficiency)

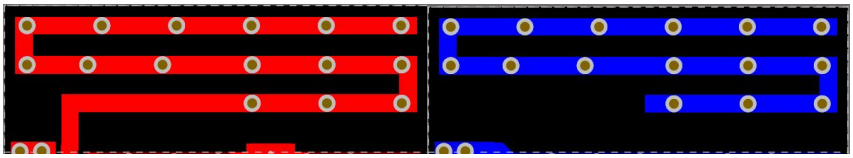
4、辐射方向图 (Radiation Pattern)
（1）（1）E1，XZ 面，phi=0;（E1，XZ plane，phi=0°）

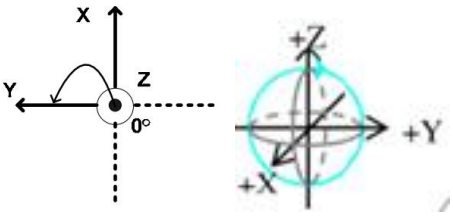


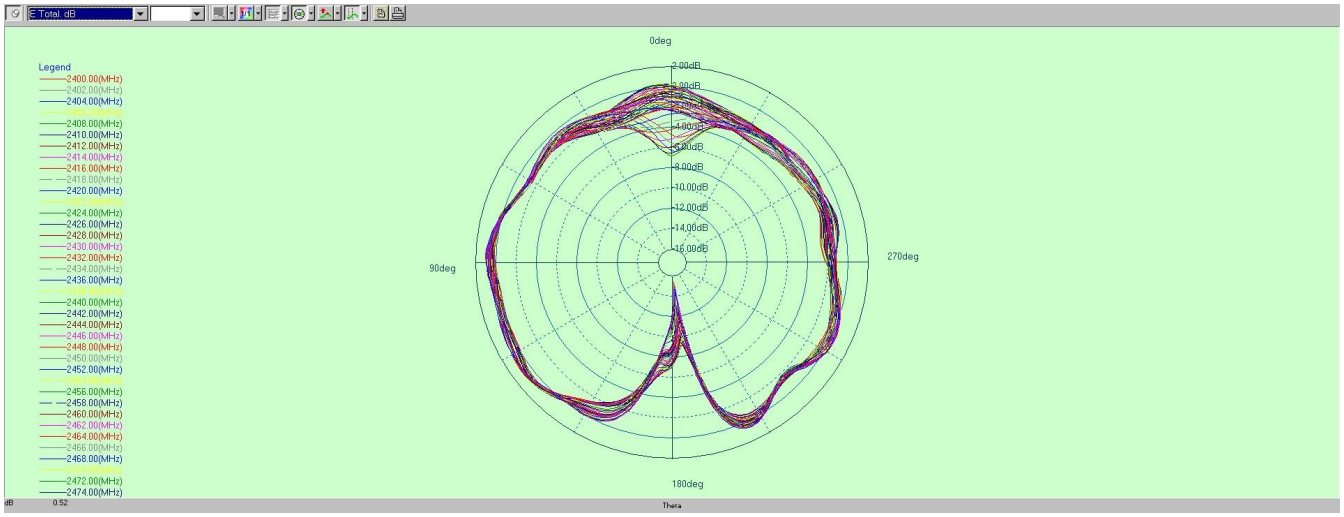
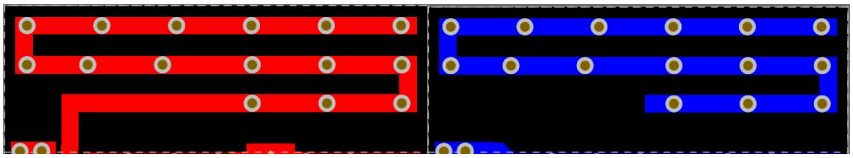
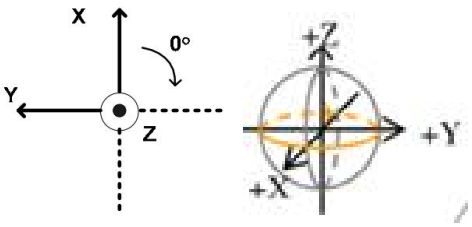
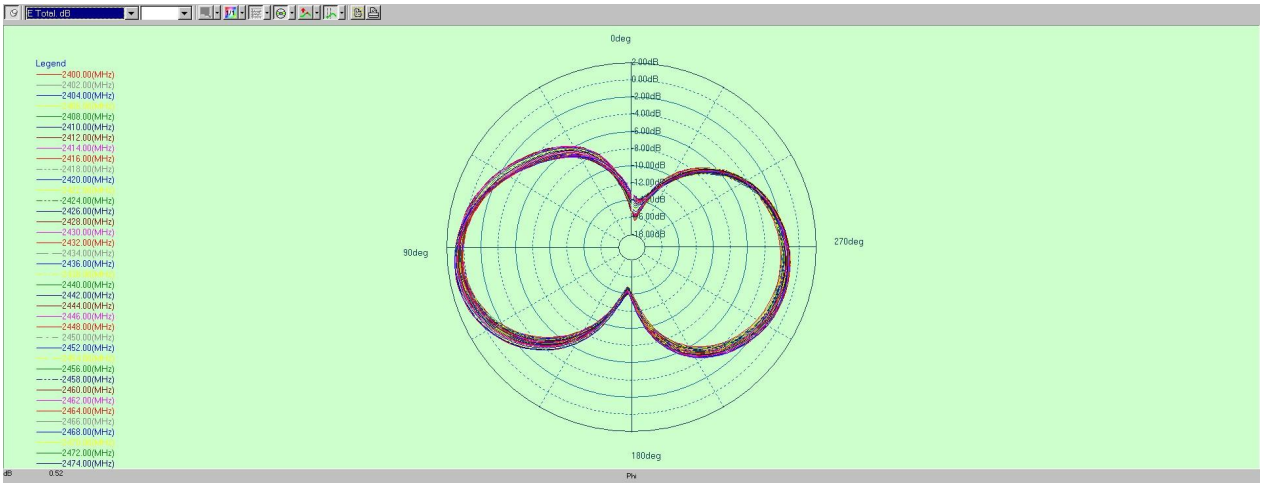




（2）E2，YZ 面，phi=90°；（E2，YZ 面，phi=90°）







（3）H，XY 面， theta=90°；（H，XY plane，theta=90°）