

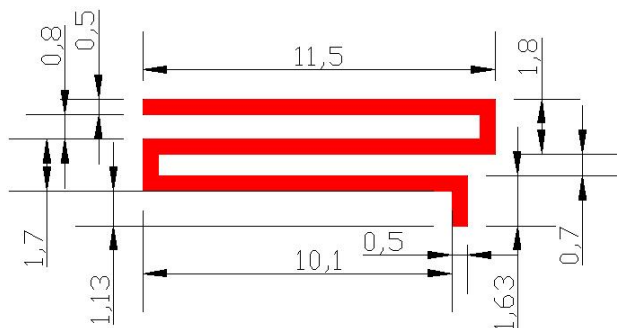


天线型号 (Antenna Version) : ANT-BBNCNC21015  
产品型号 (Model of the DUT) : MS88SF3  
PCB 编号及版本 (PCB number and version) : MS88SF3\_V1.1  
责任硬件工程师 ( Hardware Engineer) : 李金倍  
测试日期 (Test Data) : 2024/4/17

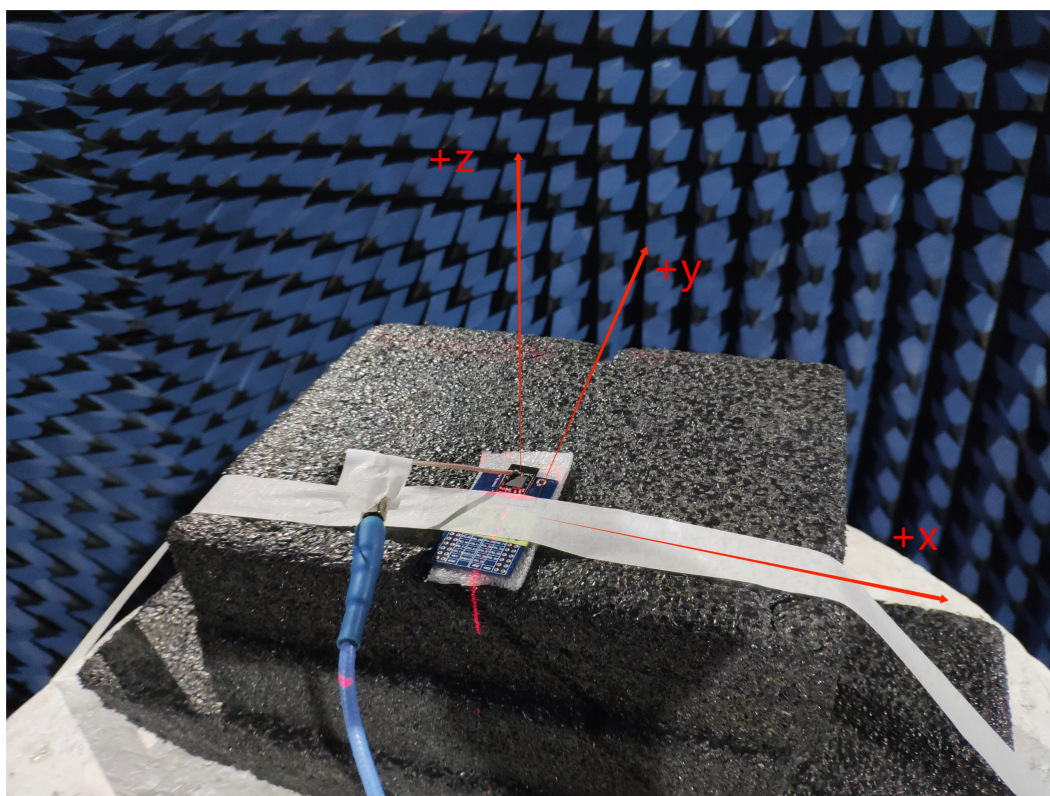
1、技术指标 (Technical Specification)

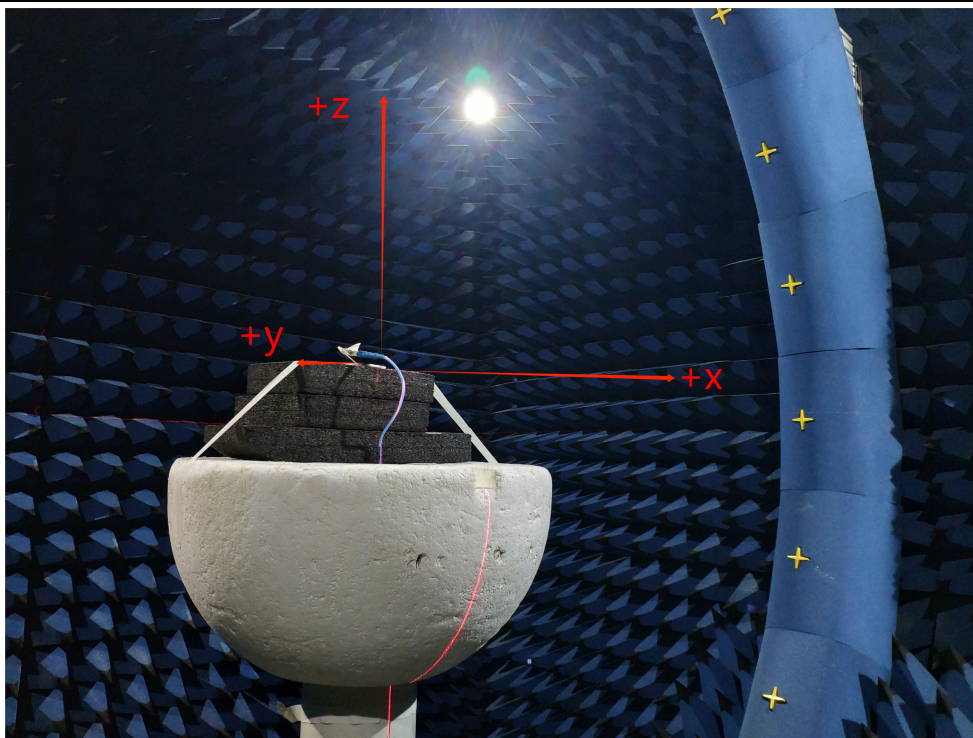
| 电性能指标 Electrical Specifications |                        |
|---------------------------------|------------------------|
| 频率范围 Frequency Range (MHz)      | 2400-2480              |
| 频带宽度 Bandwidth (-10dB) (MHz)    | 188.9                  |
| 输入阻抗 Input Impedance (Ω)        | 50                     |
| 回波损耗 Return Loss (dB)           | <-10.74                |
| 电压驻波比 VSWR                      | <1.75                  |
| 增益 Gain (@2.44GHz) (dBi)        | 2.63                   |
| 峰值增益 Peak Gain (dBi)            | 3.06                   |
| 极化形式 Polarization Type          | 线极化                    |
| 雷电保护 Lightning Protection       | 直流接地<br>(DC grounding) |
| 功率容量 Power Capacity (mW)        | 1000                   |
| 机械指标 Mechanical Specifications  |                        |
| 天线尺寸 Antenna Size (mm)          | 11.5*4.13mm            |
| 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)

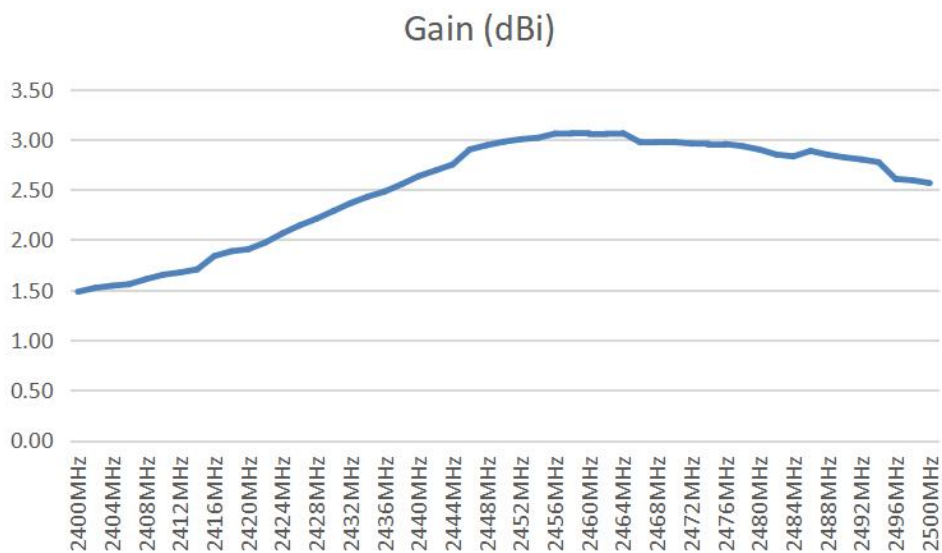


## 3、测试结果 (The result of the test)

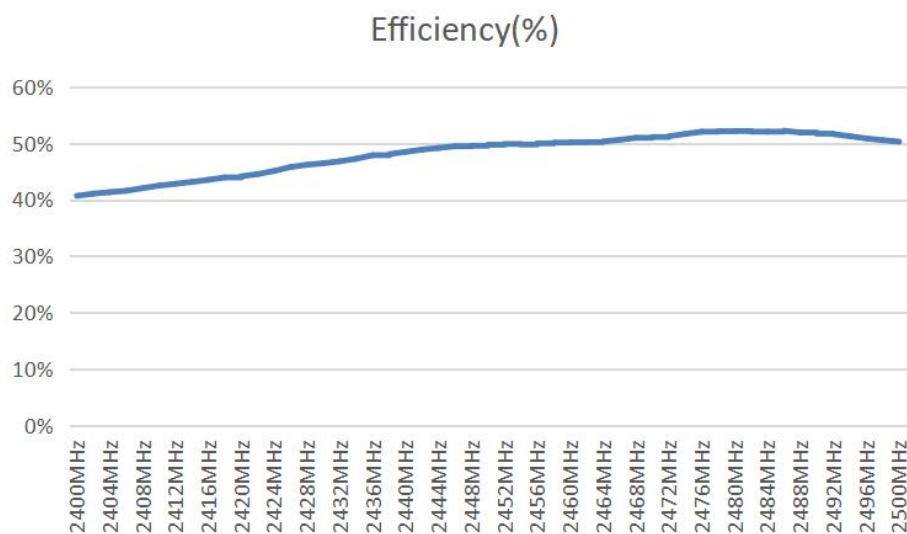




### 3.1 增益 (Gain)



### 3.2 效率 (Efficiency)

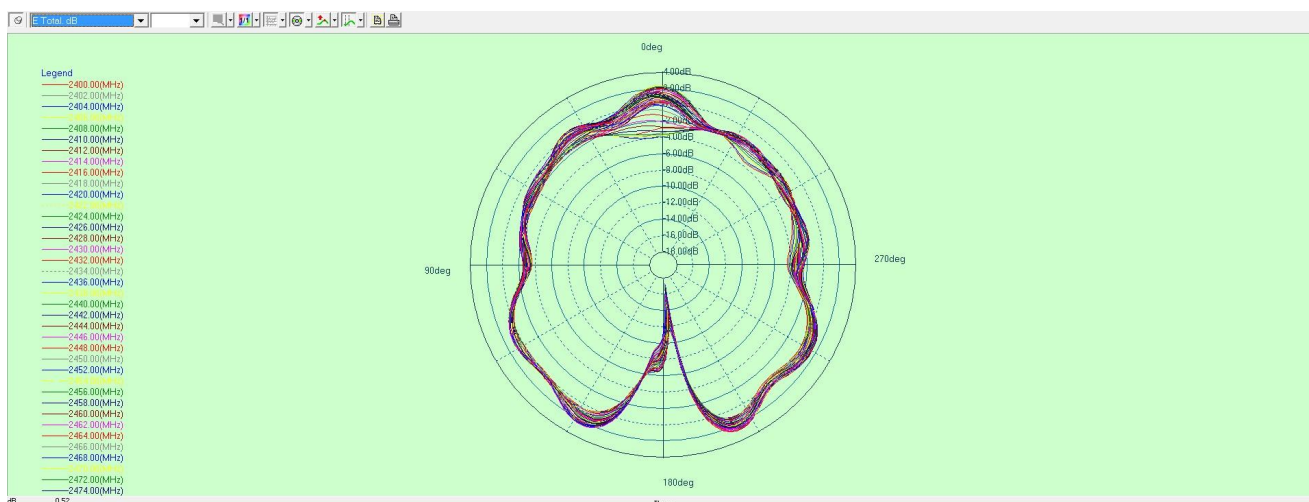
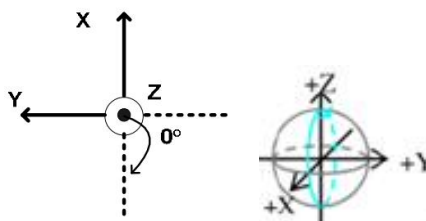
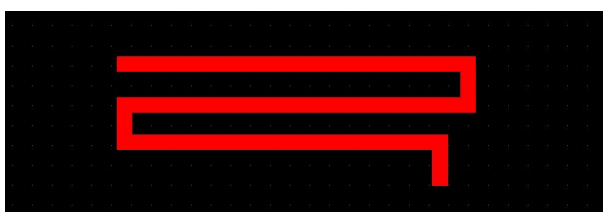


备注: 效率两种表达方式之间的关系: 效率 (dB) = 10lg(效率的百分比)

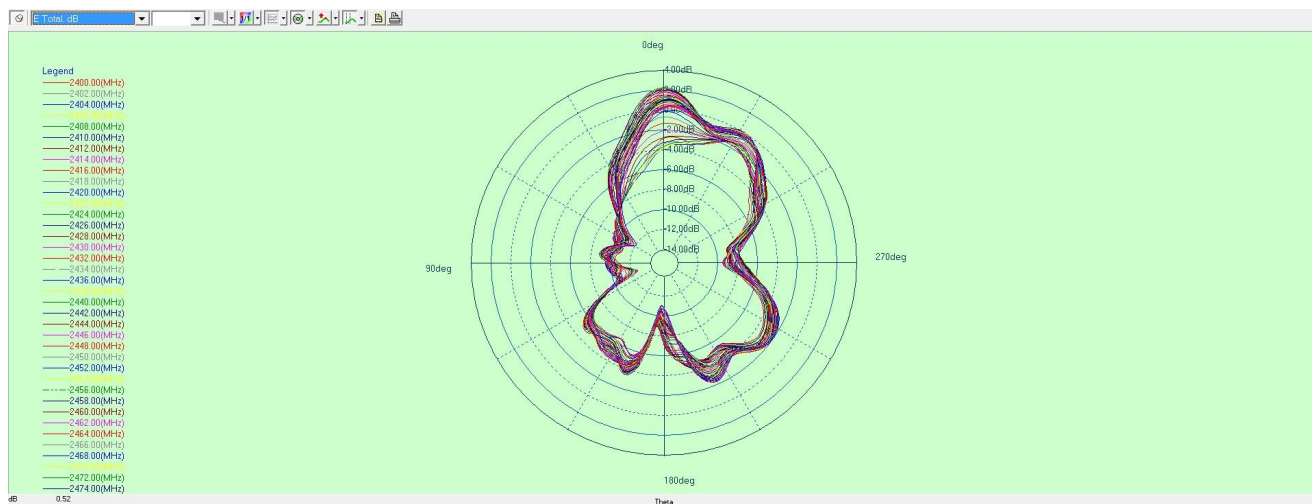
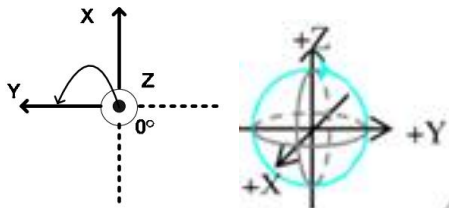
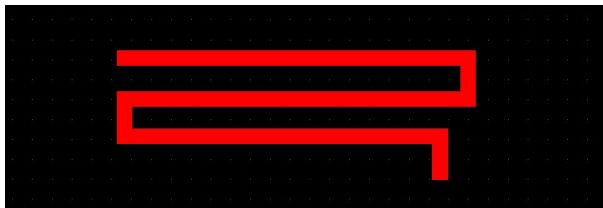
Note: the relationship between the two expressions of efficiency: efficiency (DB) = 10lg (percentage of efficiency)

### 4、辐射方向图 (Radiation Pattern)

(1) E1, XZ 面, phi=0; (E1, XZ plane, phi=0°)



(2) E2, YZ 面,  $\phi=90^\circ$ ; (E2, YZ 面,  $\phi=90^\circ$ )



(3) H, XY 面,  $\theta=90^\circ$ ; (H, XY plane,  $\theta=90^\circ$ )

