

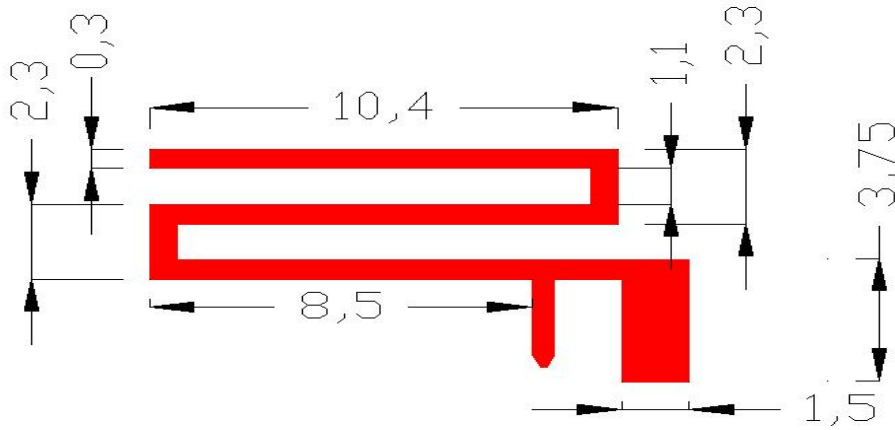


天线型号 (Antenna Version): ANT-BBNCNC23007  
产品型号 (Model of the DUT): MS12SF1  
PCB 编号及版本 (PCB number and version): MS12SF1\_V1.0  
责任硬件工程师 (Hardware Engineer): 胡俊锋  
测试日期 (Test Data): 2023/8/31

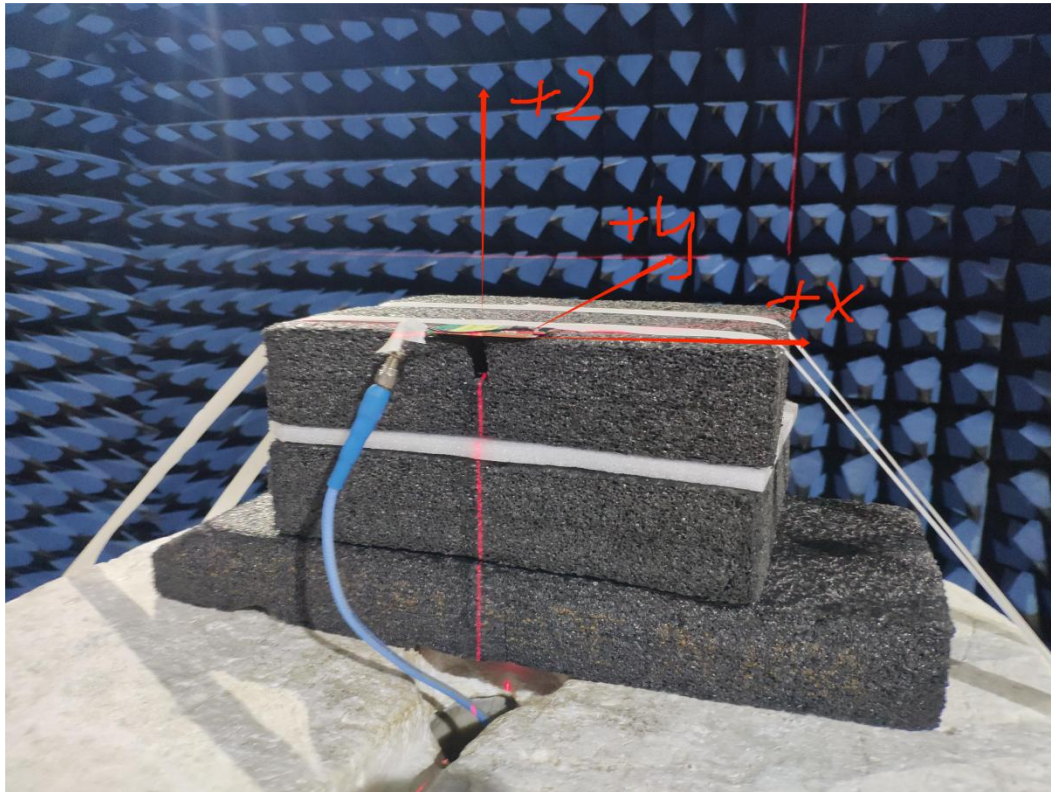
1、技术指标 (Technical Specification)

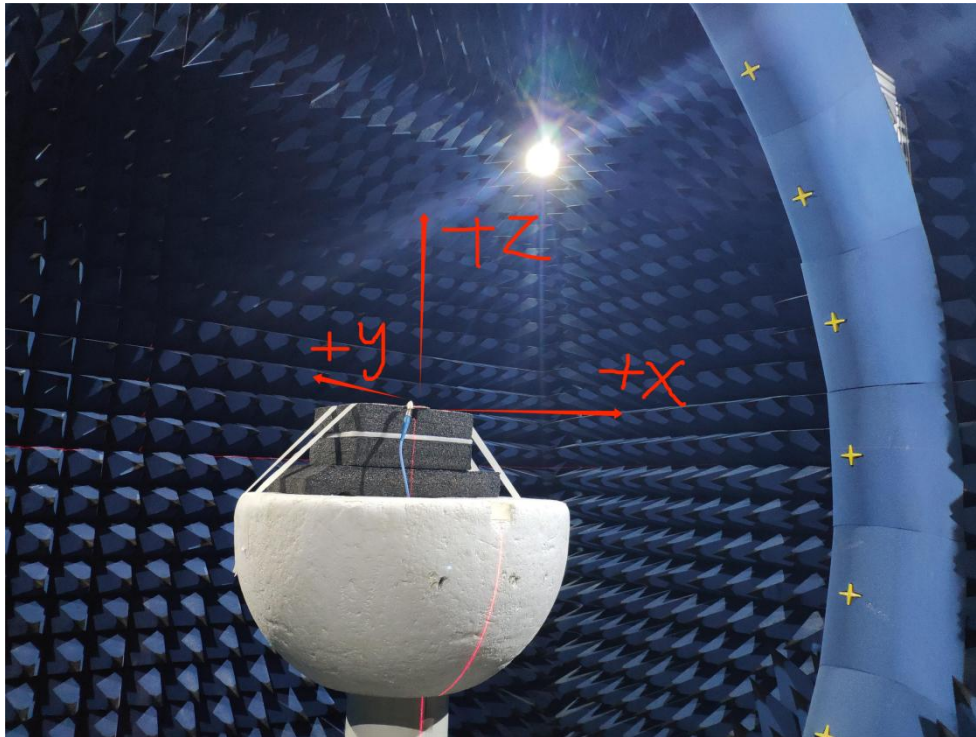
| 电性能指标 Electrical Specifications                 |                        |
|---|------------------------|
| 频率范围 Frequency Range (MHz)                      | 2400-2480              |
| 频带宽度 Bandwidth (-10dB) (MHz)                    | 75                     |
| 输入阻抗 Input Impedance ( $\Omega$ )               | 50                     |
| 回波损耗 Return Loss (dB)                           | <-9.10                 |
| 电压驻波比 VSWR                                      | <2.08                  |
| 增益 Gain (@2.44GHz) (dBi)                        | 2.60                   |
| 峰值增益 Peak Gain (dBi)                            | 2.70                   |
| 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)                          | 6.75*12.00             |
| 辐射体 Radiator                                    | 铜 Cuprum               |
| 连接器型号 Connect Type                              | 无                      |
| 工作温度 Working Temperature ( $^{\circ}\text{C}$ ) | -40~+85                |
| 存储温度 Storage Temperature ( $^{\circ}\text{C}$ ) | -40~+85                |

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

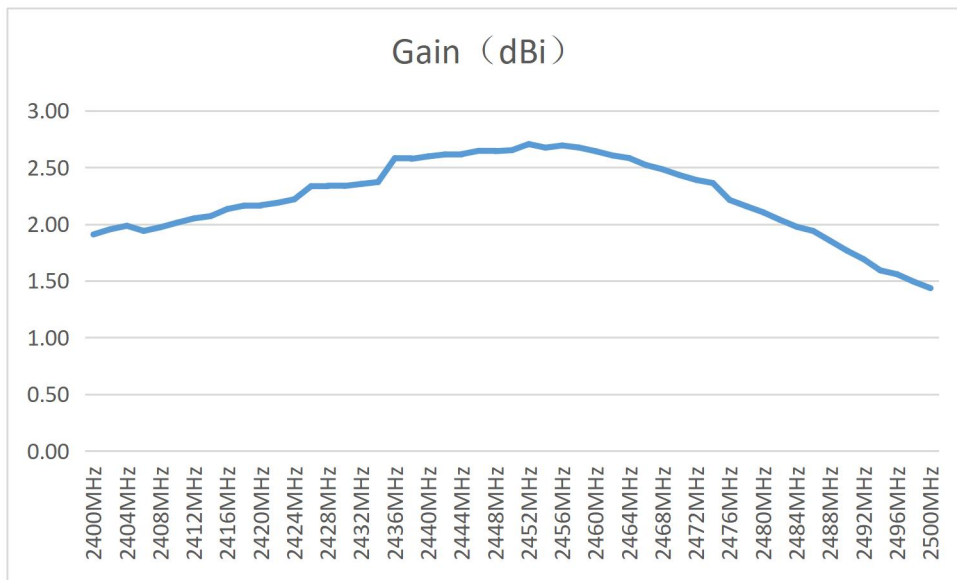


## 3、测试结果 (The result of the test)

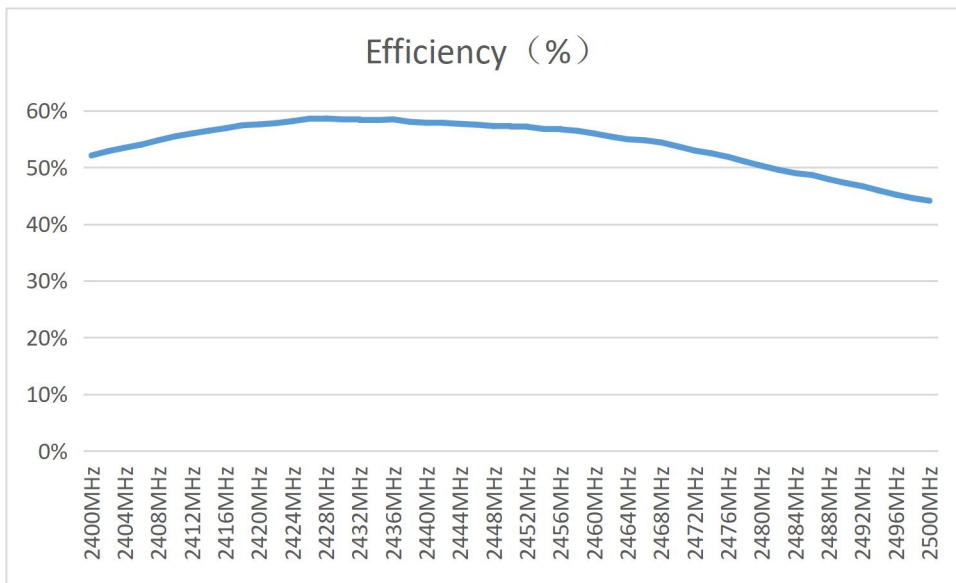




### 3.1 增益 (Gain)



### 3.2 效率 (Efficiency)

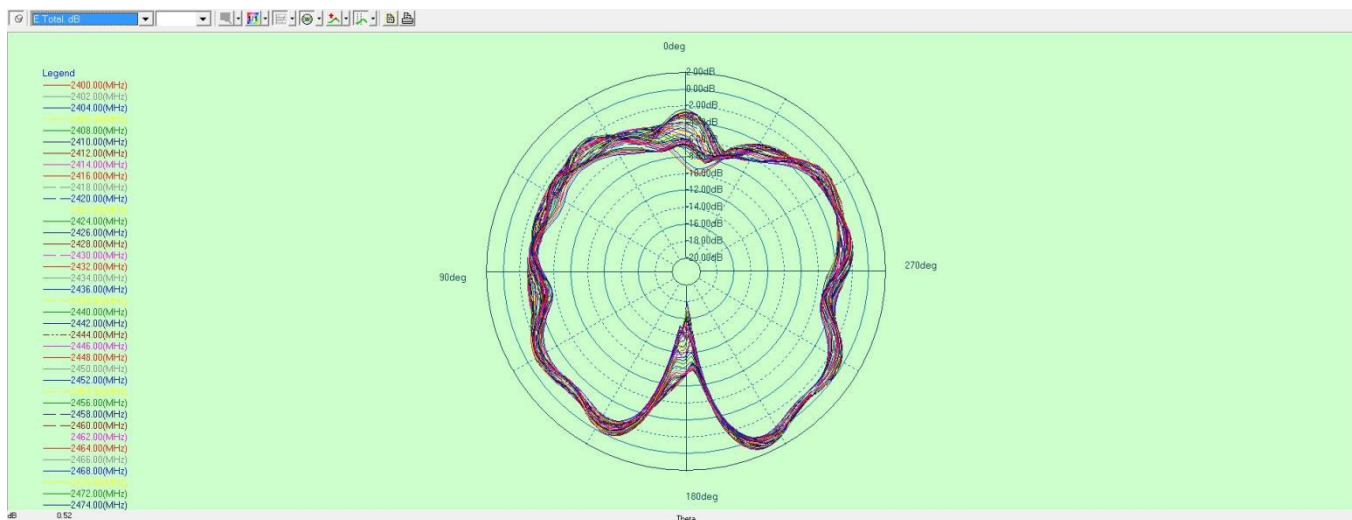
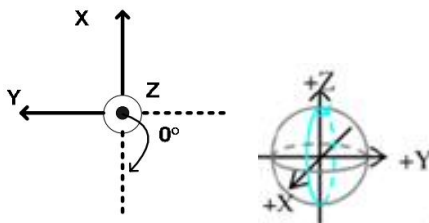


备注: 效率两种表达方式之间的关系: 效率 (dB) = 10lg(效率的百分比)

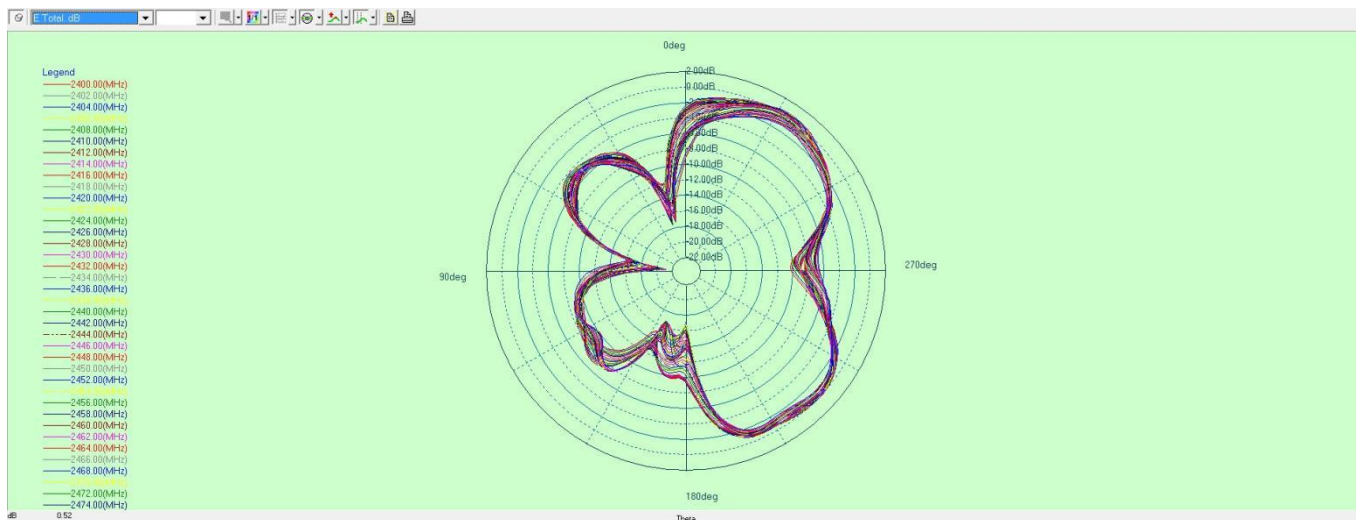
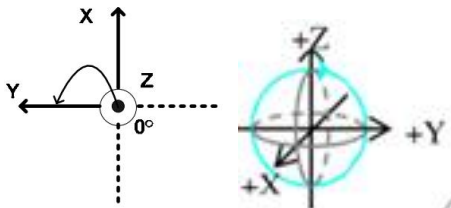
Note: the relationship between the two expressions of efficiency: efficiency (DB) = 10lg (percentage of efficiency)

### 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,  $\theta=90^\circ$  )

