



深圳云里物里科技股份有限公司

产品天线测试报告 (The Antenna Test Report)

Y-YB-CR-089

V002

密级: 绝密 / confidentiality

天线型号 (Antenna Version) :

被测试产品型号 (Model of the DUT) : MS46SF1 模块

被测试 PCB 编号及版本 (PCB number and version) : MS46SF1_V1.1

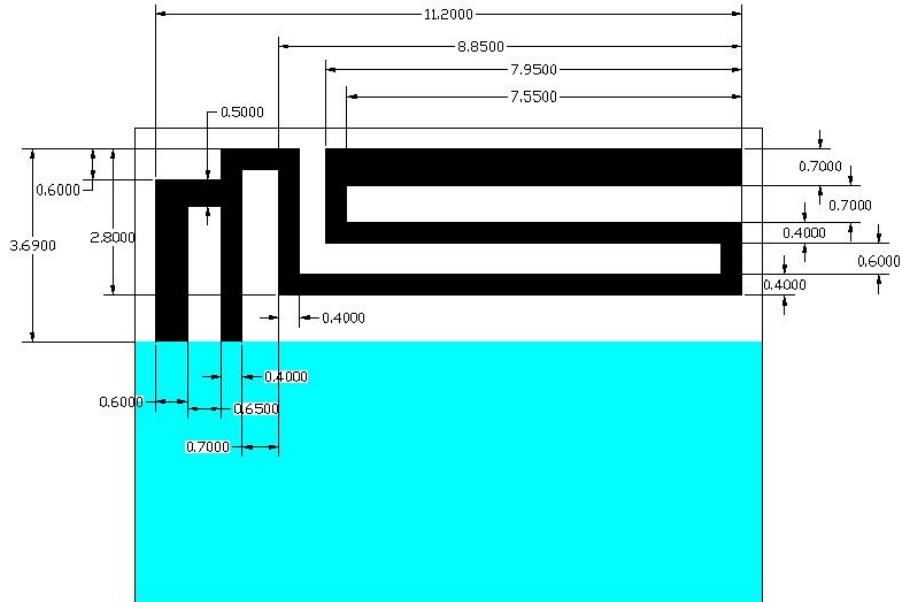
责任硬件工程师 (Hardware Engineer) : 李金倍

测试日期 (Test Data) : 2021/5/10

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)	≥80
输入阻抗 Input Impedance (Ω)	50
回波损耗 Return Loss (dB)	≤-8.86
电压驻波比 VSWR	≤2.19
增益 Gain (@2.45GHz max) (dB)	2.72
极化形式 Polarization Type	线极化 (Linear polarization)
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)	11.2*3.69mm
辐射体 Radiator	铜 Cuprum
连接器型号 Connect Type	-
工作温度 Working Temperature (°C)	-40~85
存储温度 Storage Temperature (°C)	

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

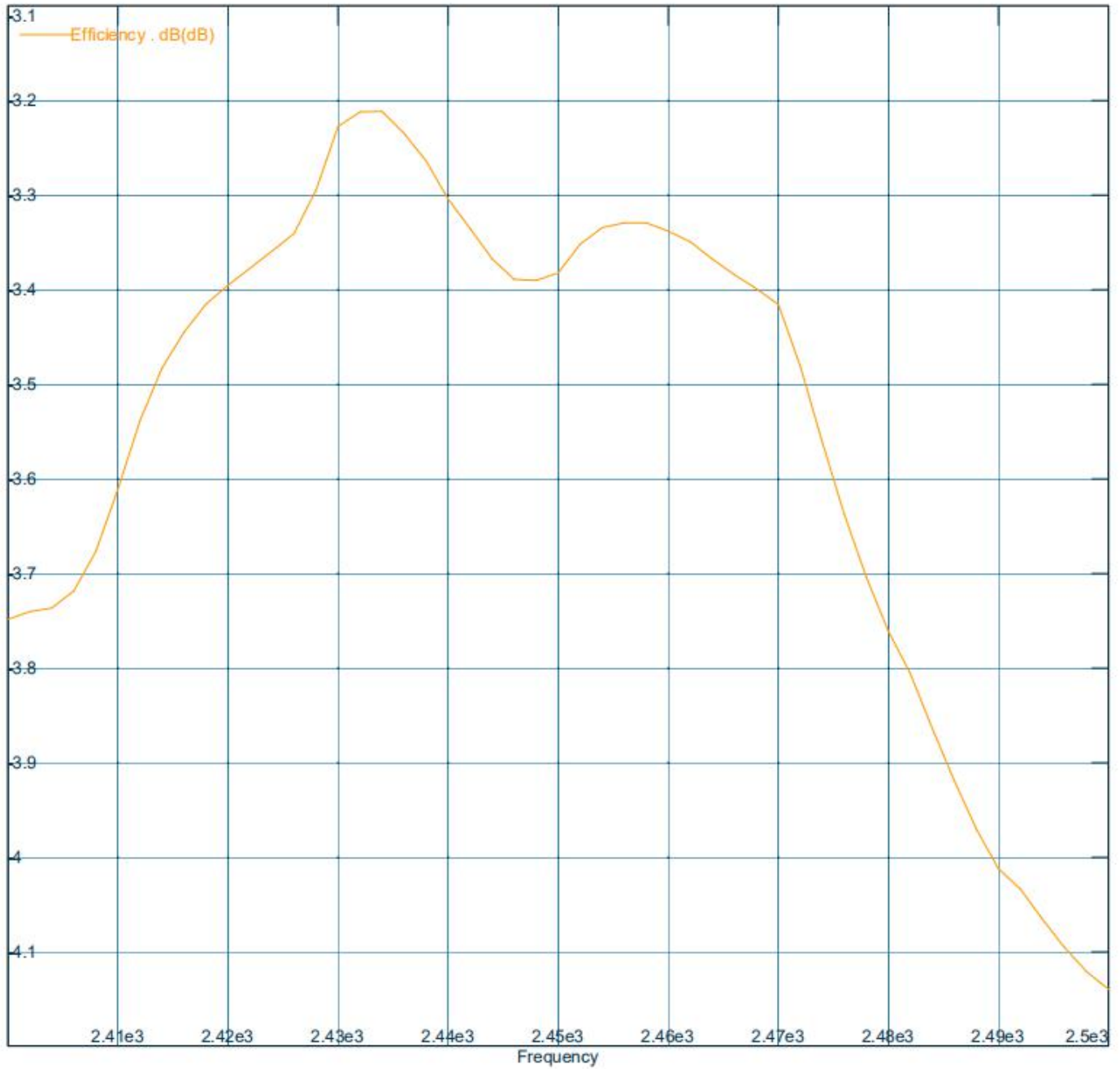


3、测试结果 (The result of the test)

3.1 增益 (Gain)



3.2 效率 (Efficiency)

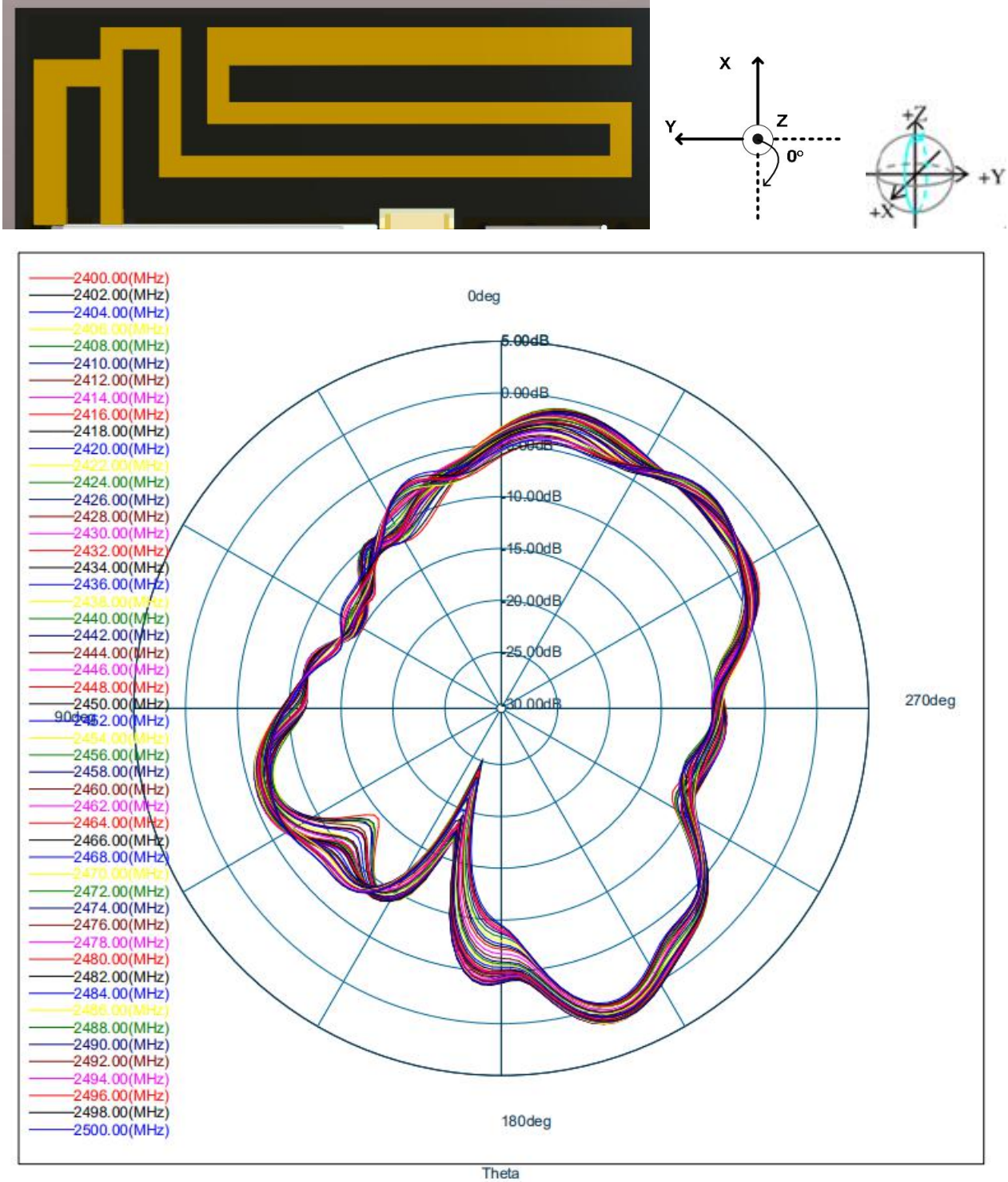


备注: 效率两种表达方式之间的关系: 效率 (dB) = 10lg(效率的百分比)

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

4、辐射方向图 (Radiation Pattern)

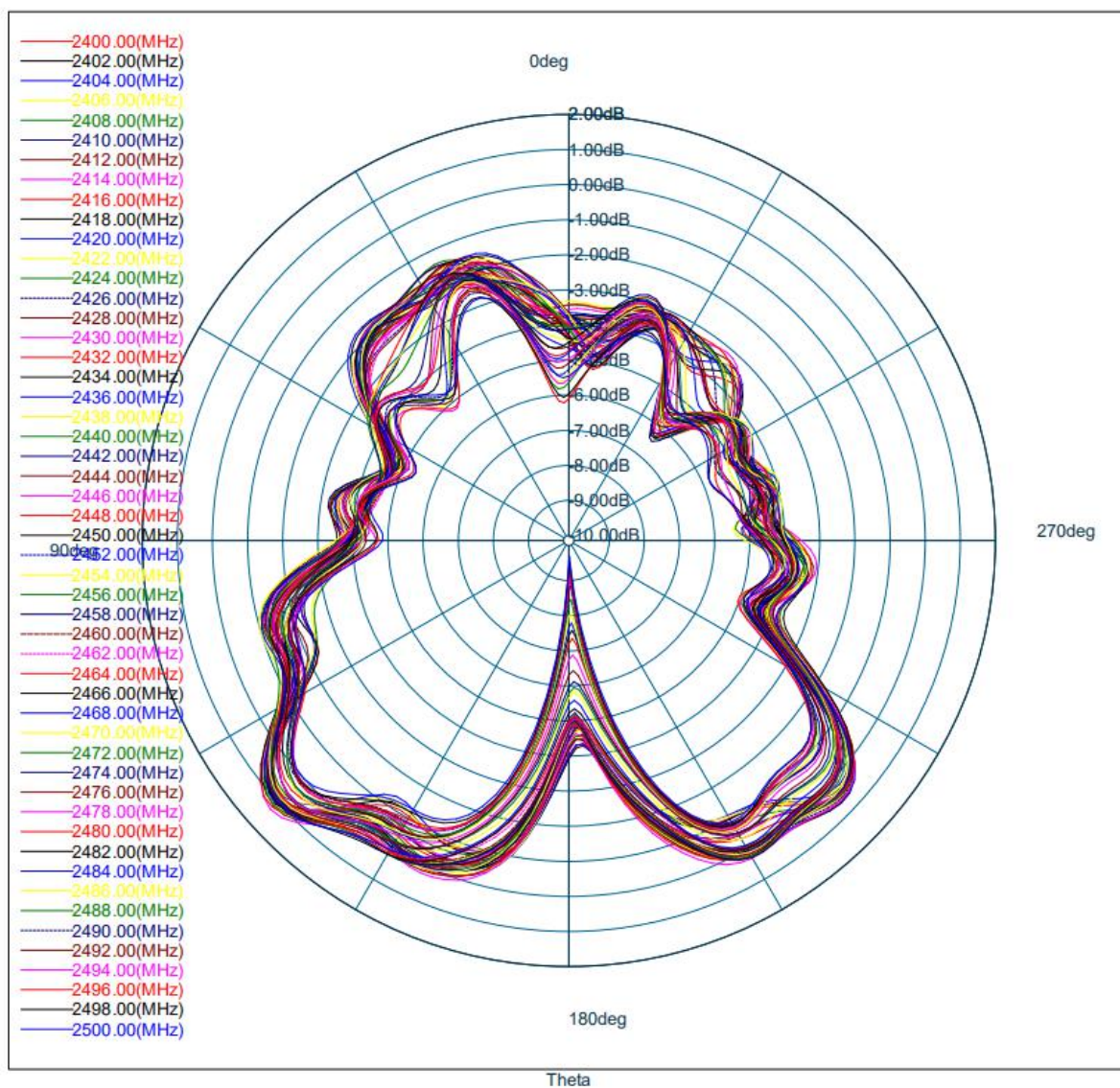
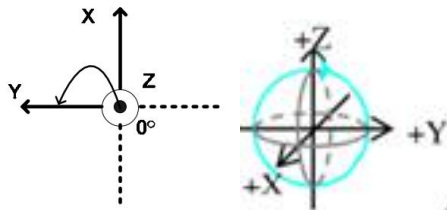
(1) E1, XZ 面, $\phi=0^\circ$; (E1, XZ plane, $\phi=0^\circ$)



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

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