

產品天線測試報告

(The Antenna Test Report)

Y-YB-CR-115

V001

天線型號 (Antenna Version) : ANT-2G4-001

產品型號 (Model of the DUT) : Ci-B2

PCB 編號及版本 (PCB number and version) : MS92SF6_PCB_V3.0

製造商 (Antenna Manufacture) : Shenzhen Minew Technologies Co., Ltd.

地址 (Address) : No.8, Qinglong Road, Longhua District, Shenzhen, China

測試天線工程師 (Antenna Engineer) : XuNing

測試日期 (Test Data) : 2022.12.16

1、技術指標 (Technical Specification)

電氣規格 Electrical Specifications	
頻率範圍 Frequency Range (MHz)	2400-2480
頻寬 Bandwidth (-10dB) (MHz)	S11 < -10dB
輸入阻抗 Input Impedance (Ω)	50
反射損耗 Return Loss (dB)	< -10
電壓駐波比 VSWR	< 2
增益 Gain (@2.44GHz) (dBi)	0.24
峰直增益 Peak Gain (dBi)	1.74
極化方式 Polarization Type	線性極化 (Linear polarization)
雷擊保護 Lightning Protection	直接流地 (DC grounding)
功率容量 Power Capacity (mW)	1000
機械規格 Mechanical Specifications	
天線尺寸 Antenna Size (mm)	14.4*5.23
輻射體 Radiator	銅 Cuprum
連接器種類 Connector Type	/
工作溫度 Working Temperature (°C)	-40~85
儲存溫度 Storage Temperature (°C)	-40~85

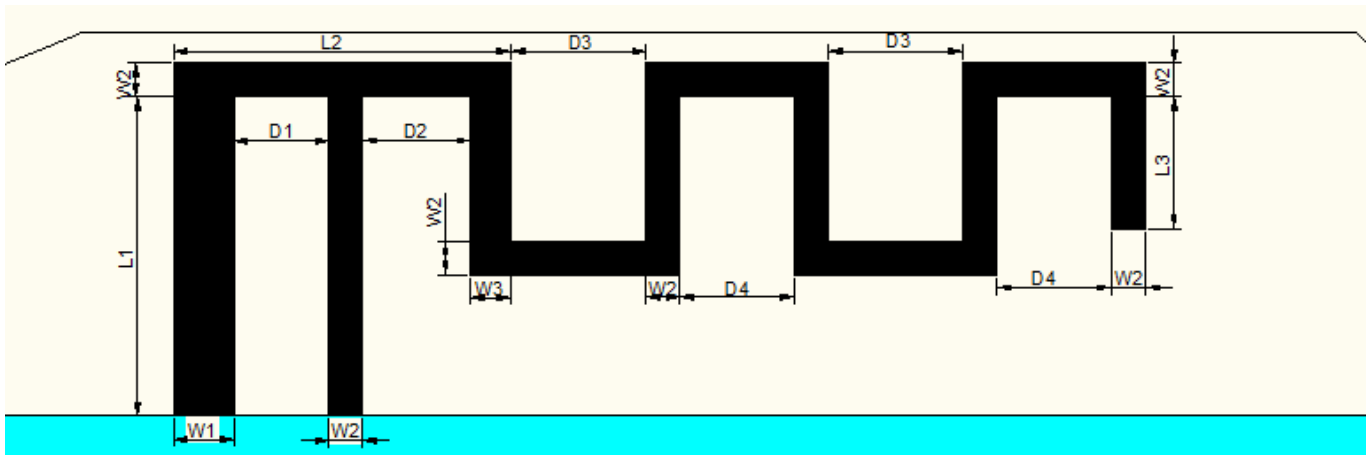
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2、天線外形和尺寸 (The shape and size of the antenna)



3、測試設備和測試方法介紹 (Test Equipment and Method)

測試環境 (Test Environment)：標準暗室 (The microwave anechoic chamber)

測試設備 (Test Equipment)：MVG Industries · SG24S-LT OTA · 24 Probes

測試人員 (Tester)：合作第三方 The third party

測試方法 (Test Method)：

- ①將準備好的受測物 (DUT) 放入暗室內部，並將受測物的同軸電纜與暗室內的同軸電纜連接。(Place the prepared DUT into the anechoic chamber, and connect the coaxial cable of the DUT to the coaxial cable of the chamber.)
- ②在電腦上啟動測試軟體並開始執行量測。(Launch the test software on the computer and begin the measurement.)
- ③測試完成後，儲存測試數據。(After the test is completed, save the data.)

DUT

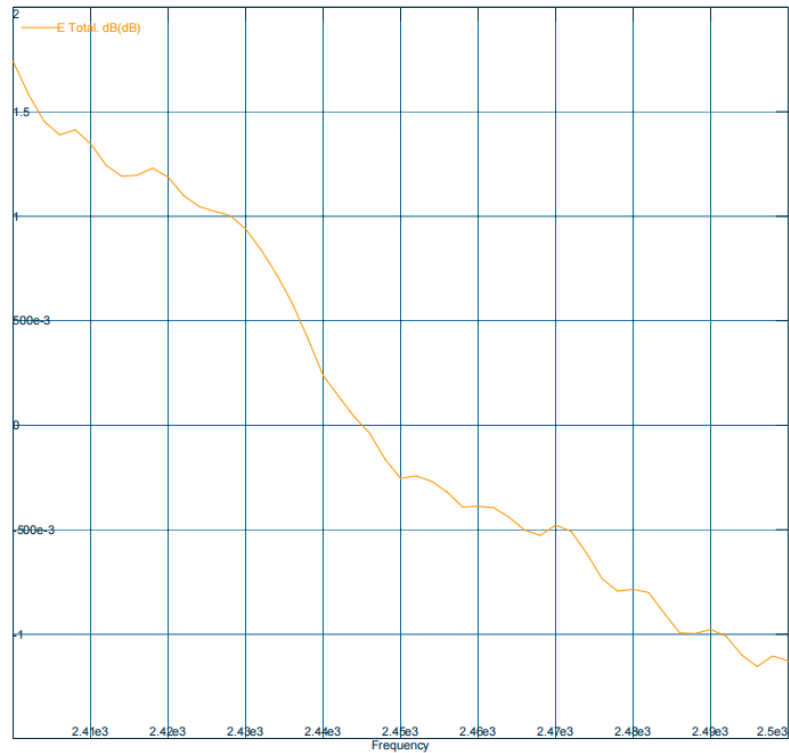
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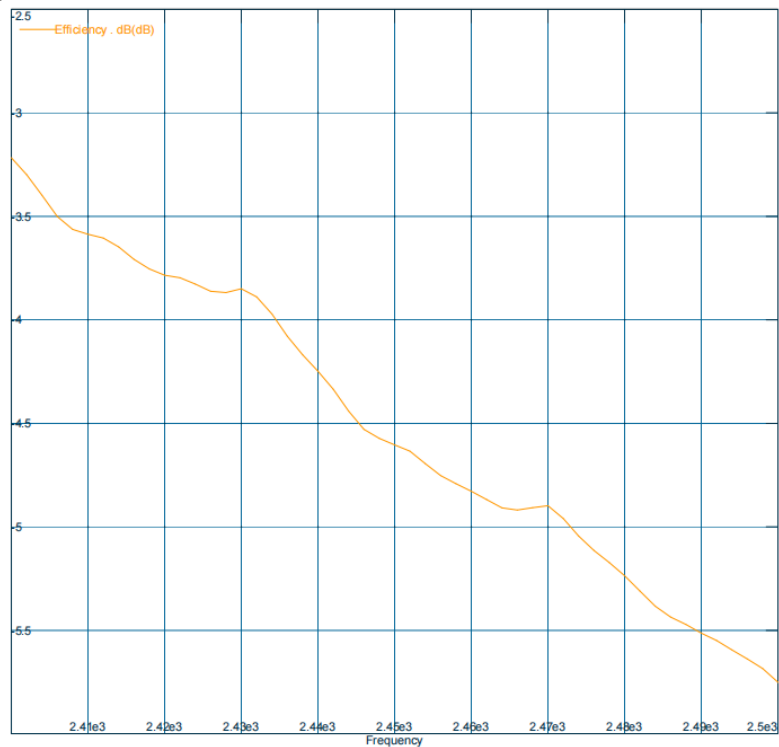
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4、測試結果 (The result of the test)

4.1 增益 (Gain)



4.2 效率 (Efficiency)



備註：效率兩種表達方式之間的關係：效率 (dB) = 10lg(效率的百分比)

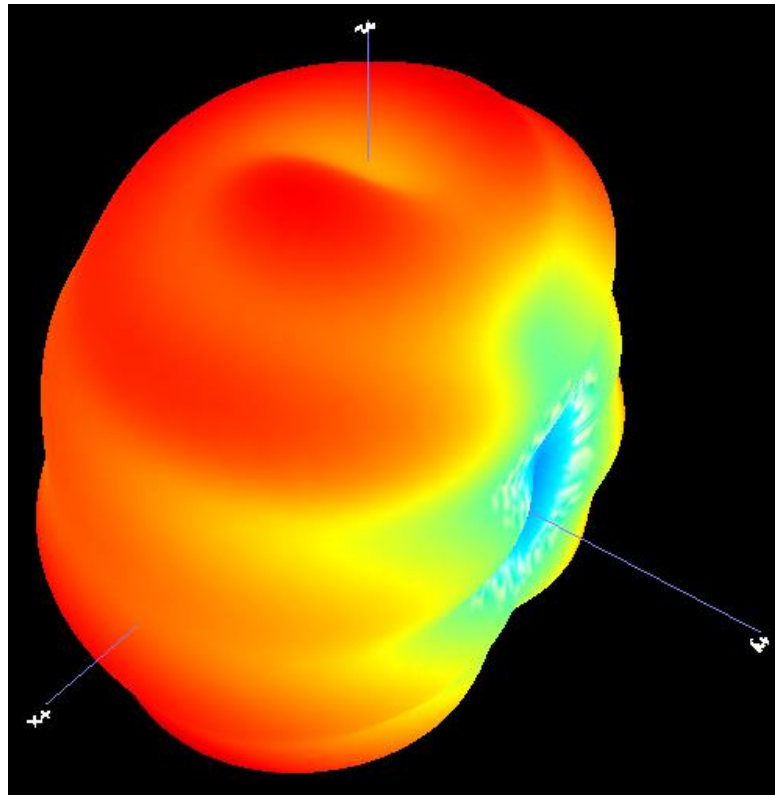
Note: the relationship between the two expressions of efficiency: efficiency (DB) = 10lg (percentage of efficiency)

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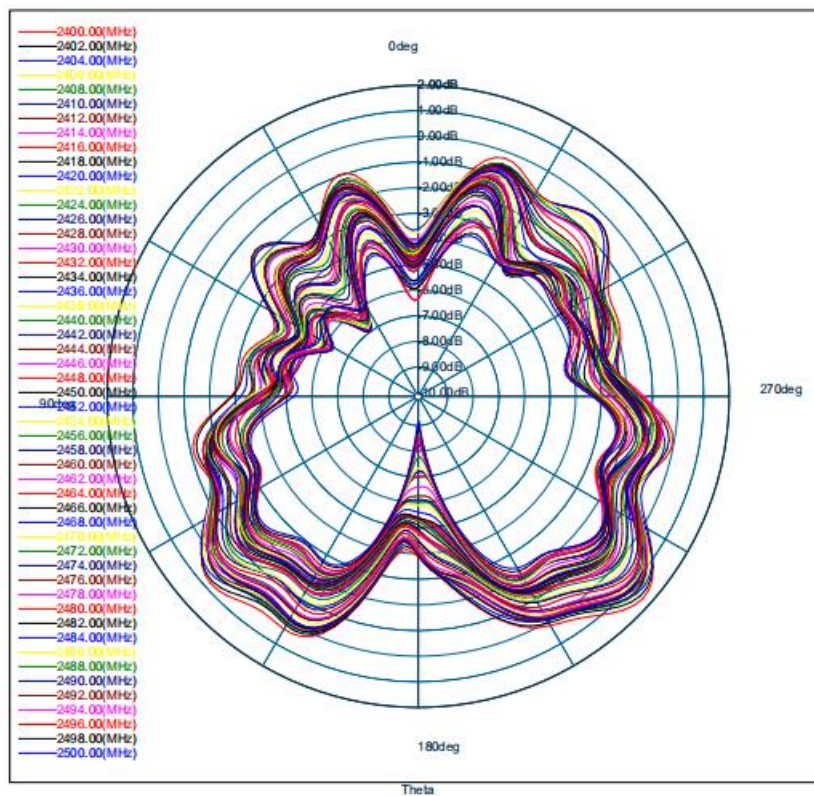
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4.3 輻射圖 (Radiation Pattern)



3D Polar @2440MHz

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



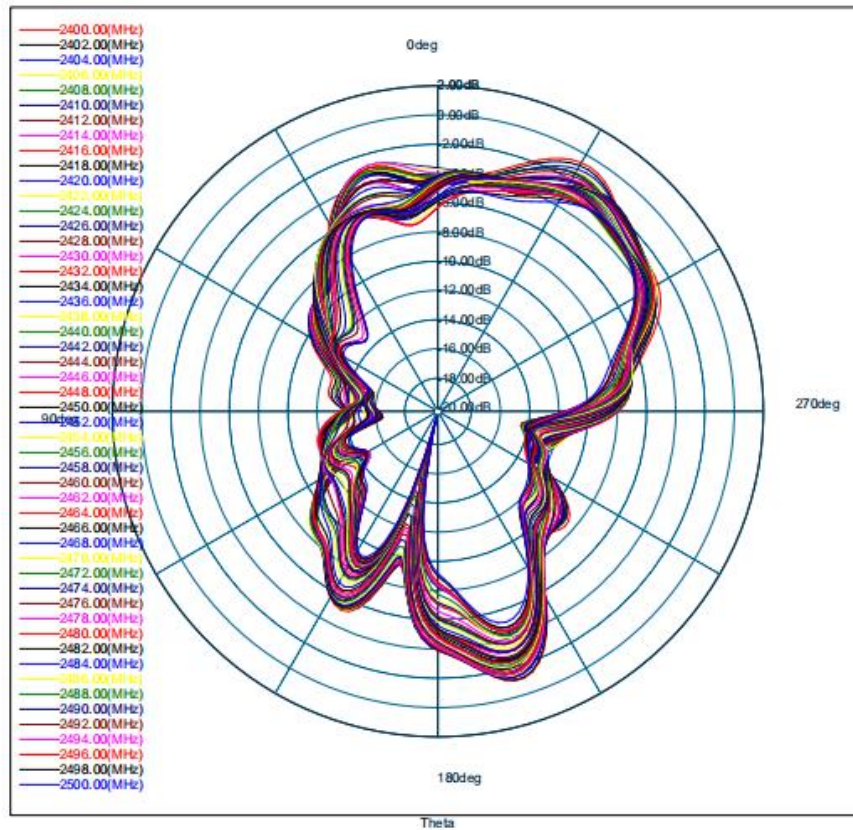
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(2) E2, YZ 面, $\phi=90^\circ$; (E2, YZ plane, $\phi=90^\circ$)



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

