

Shenzhen Yujing Tiancheng technology Co., LTD

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Longhua District, Shenzhen

SPECIFICATIONS FOR APPROVAL

Customer Name: Shenzhen Kexin Wireless Technology Co., Ltd.

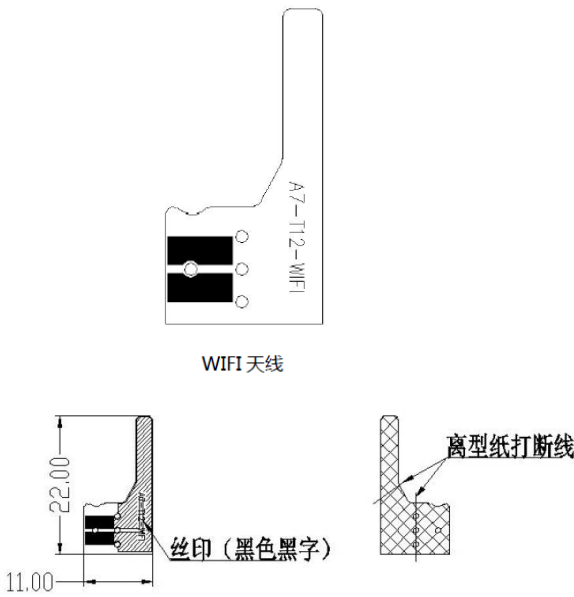
Product Name: Internal Antenna

Product Model: F2

Part Number: _____

Issued Date: 2023-9-15

The basic parameters:

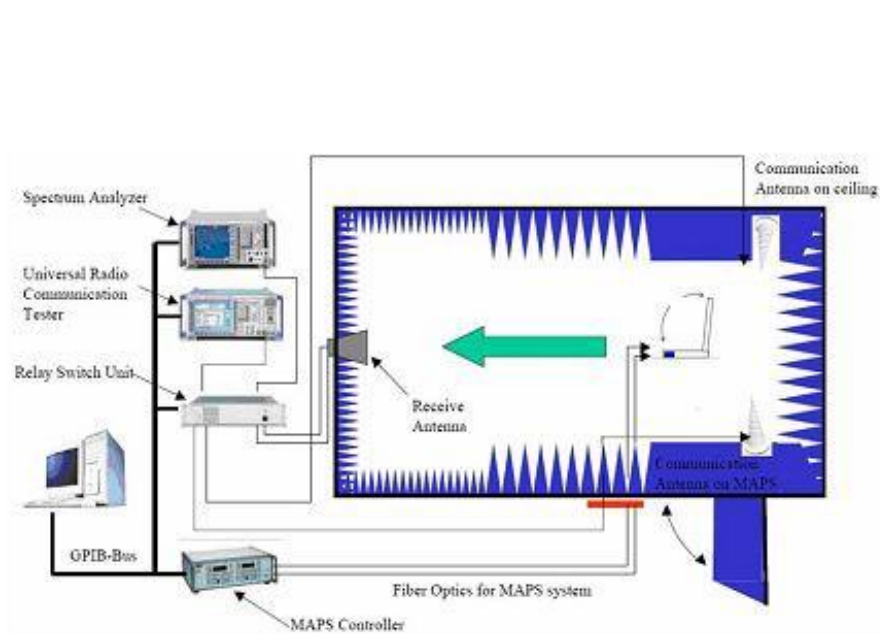
A. Electrical Characteristics	
Frequency	2400 MHz ~2500 MHz
VSWR	< 2
Efficiency	>40%
Impedance	50 Ohm
Polarization	Linear
Gain	2.0dBi(Max)
B. Material & Mechanical Characteristics	
Material of Radiator(mm)	 Technical drawing of the WiFi antenna. The top view shows a rectangular shape with a central circular feature and the text 'A7-T12-WIFI' and 'WiFi 天线'. The side view shows a profile with dimensions 22.00 and 11.00. A detail view shows a cross-section with labels '丝印 (黑色黑字)' and '离型纸打断线'.
C. Environmental	
Operation Temperature	-10 °C ~ + 50 °C
Storage Temperature	- 30 °C ~ + 85 °C

Test Equipment & Conditions

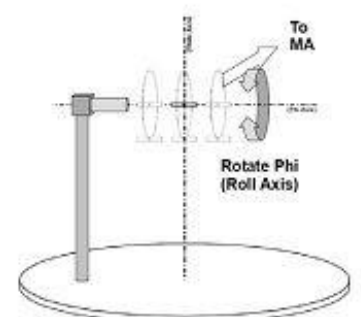
1. Network Analyzers :

Agilent 8753D 5071B

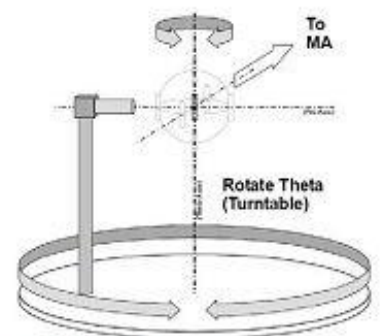
2. 3D Chamber Test System



(Testing by 3D anechoic chamber)

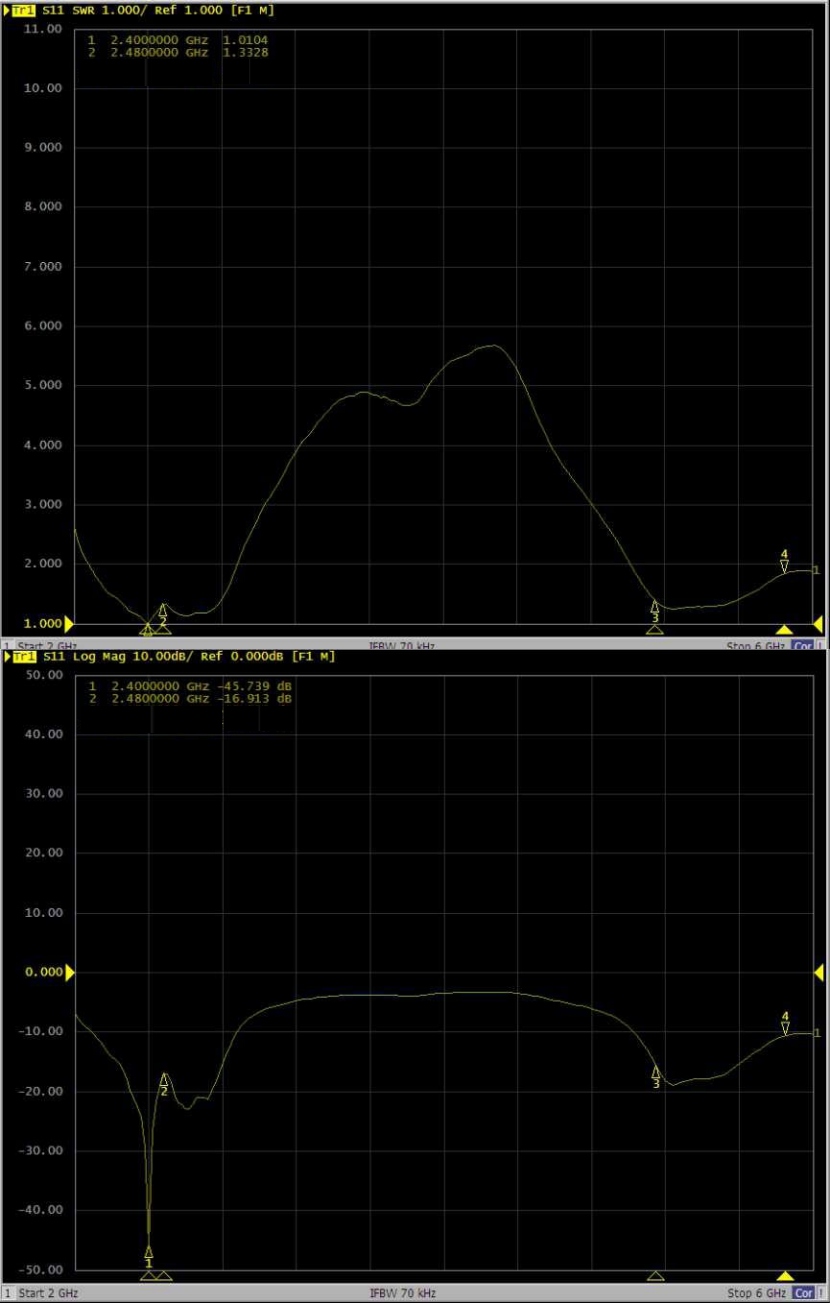


Phi axis test



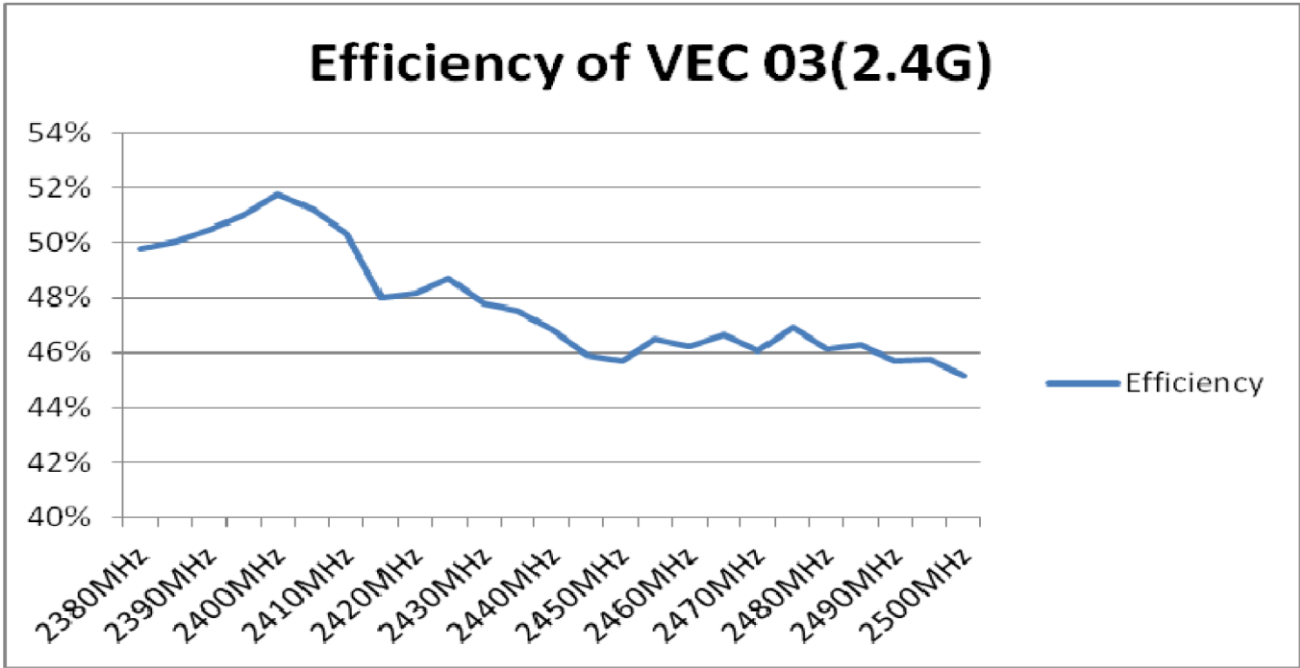
Theta axis test

3.Antenna Impedance: S11 (parameter)



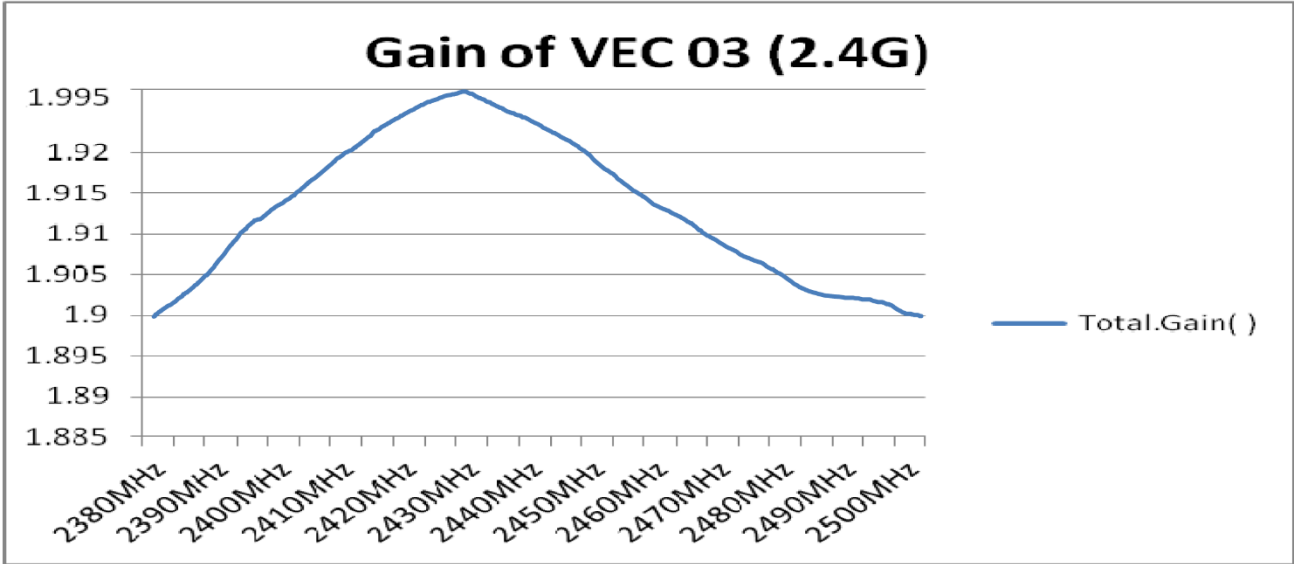
Antenna type	WIFI(2.4G)	
Frequency(MHz)	2400	2480
VSWR	1.01	1.33

4. Total Efficiency-2.4G:

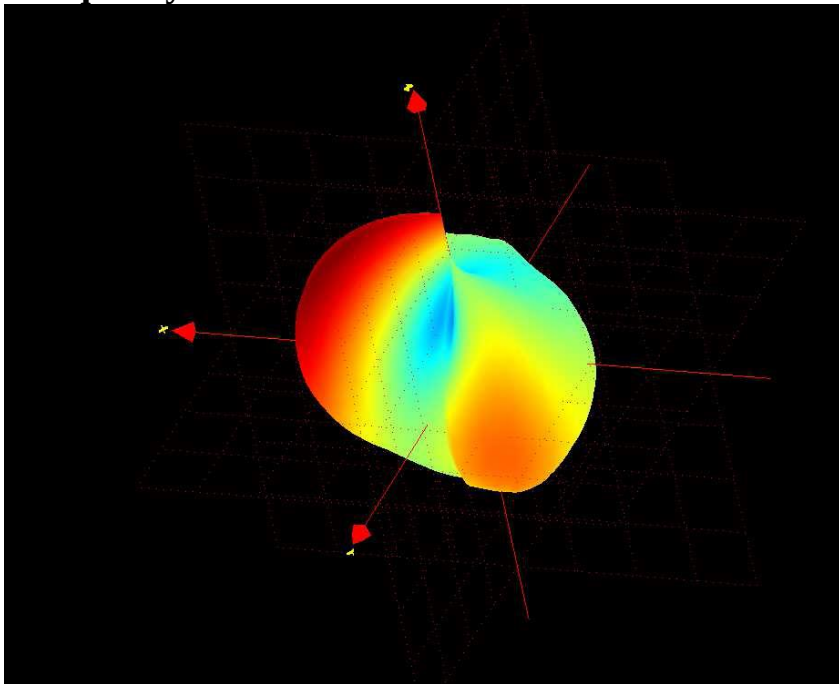


5. GAIN-2.4G:

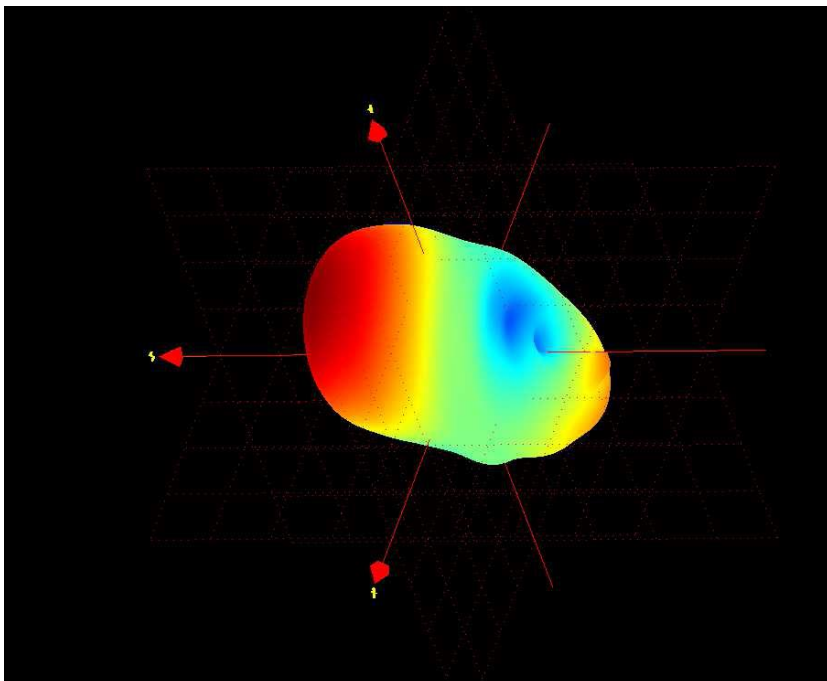
Frequency (MHz)	2380	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain(dBi)	1.90	1.91	1.91	1.92	1.94	2.00	1.95	1.92	1.91	1.91	1.91	1.90	1.90



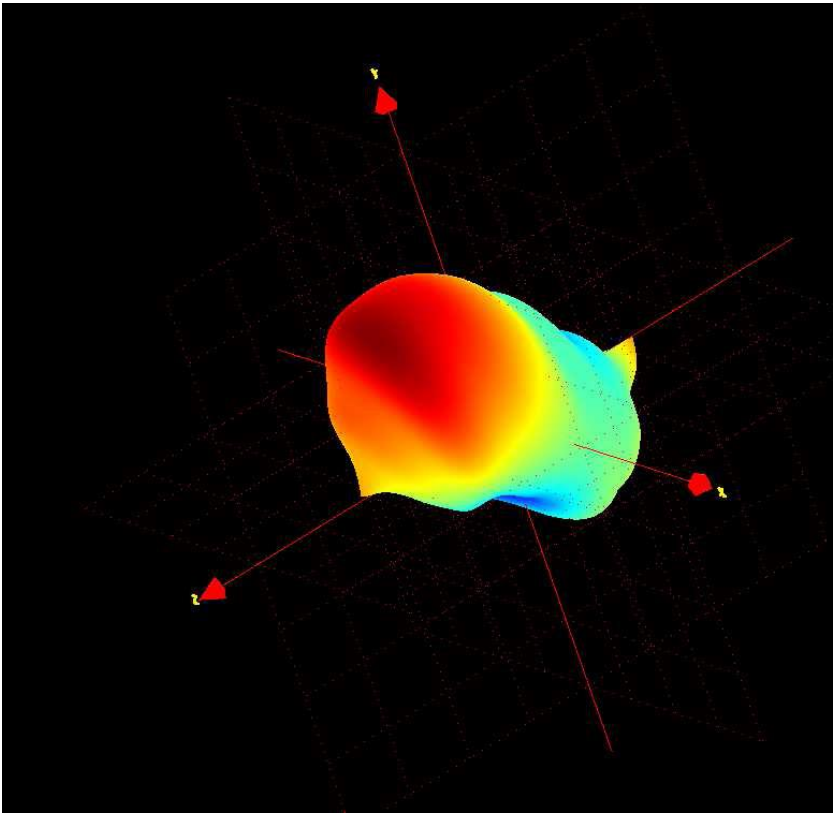
6. 3D Radiation characteristics of antenna
Frequency of 2400MHz



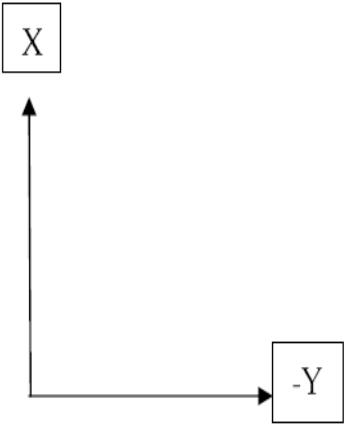
Frequency of 2440MHz



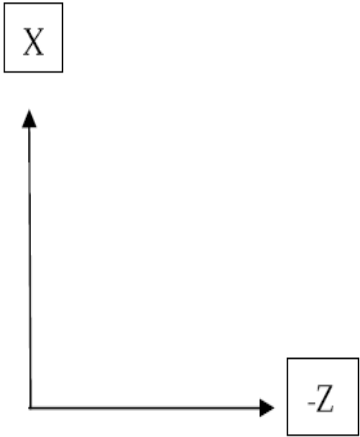
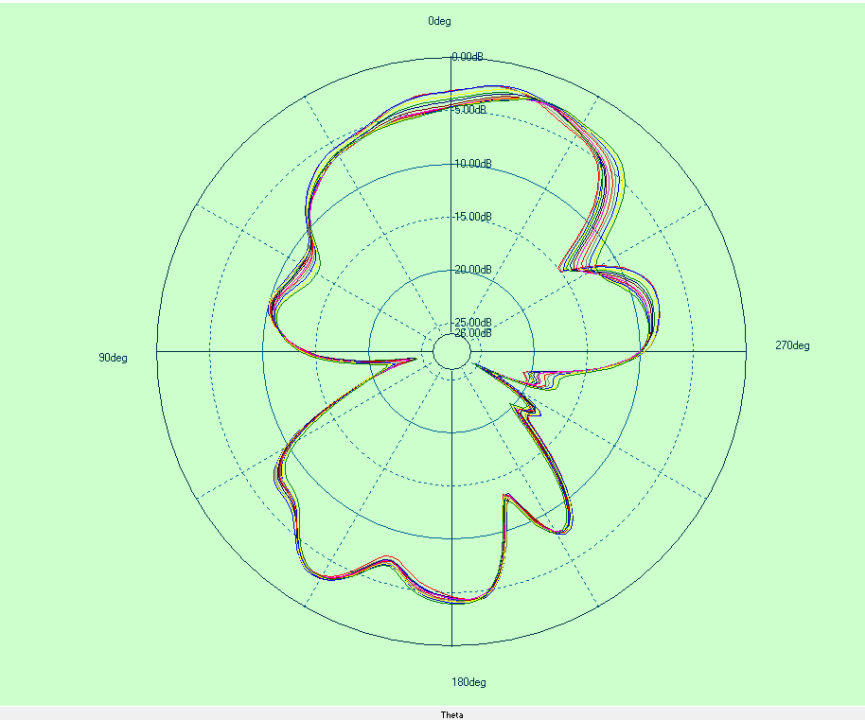
Frequency of 2480MHz



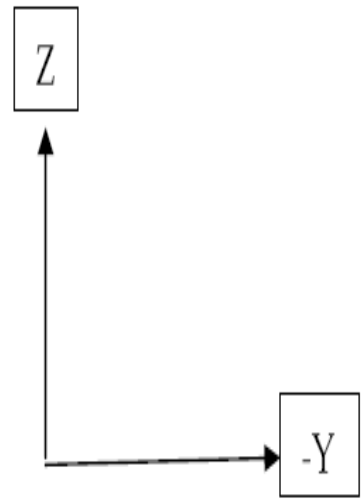
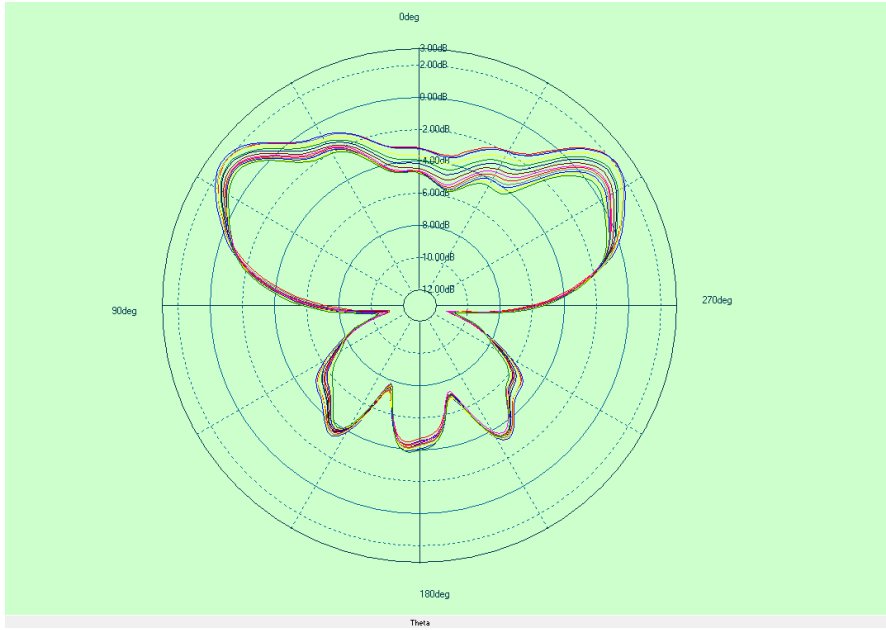
7. 2D Radiation characteristics of antenna
WIFI/2.4G



Horizontal Plane



Vertical Plane 1



Vertical Plane 2