

# BLE04 Antenna test report

Customer Name: Shenzhen Medesigner Technology Co.,Ltd

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Product Name: BLE Module

Sample Model: BLE04

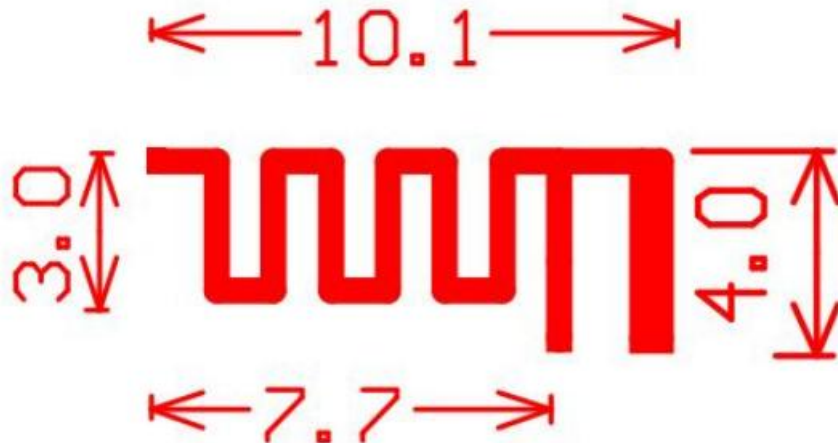
Reference Standard: GB/T 9410-2008, ANSI/IEEE Std 149-1979

Issue Date: 2022.10.31

## 一、 Description of EUT(S)

<b>Product Name</b>	BLE Module
<b>Sample Model</b>	BLE04
<b>Antenna Size</b>	10.1*4.0mm
<b>Antenna Type</b>	PCB antenna
<b>Serial No.</b>	/
<b>Test Item</b>	Antenna gain; Efficiency; Radiation pattern
<b>Frequency Range</b>	2400MHz-2500MHz
<b>Received Date</b>	2022.10.28
<b>Test Date</b>	2022.10.28
<b>Remark</b>	The length of the RF cable is 15mm

## 二、 Antenna Photo & Length (mm)



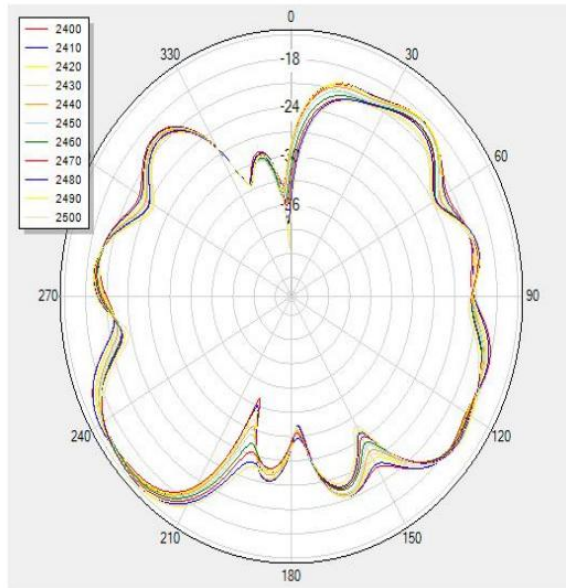
## 三、 Typical free space gain

Frequency/MHz	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
<b>Peak Gain/dBi</b>	-14.17	-14.22	-14.34	-14.21	-14.3	-14.15	-14.35	-14.17	-13.87	-13.74	-13.73

## 四、 Typical free space radiation pattern

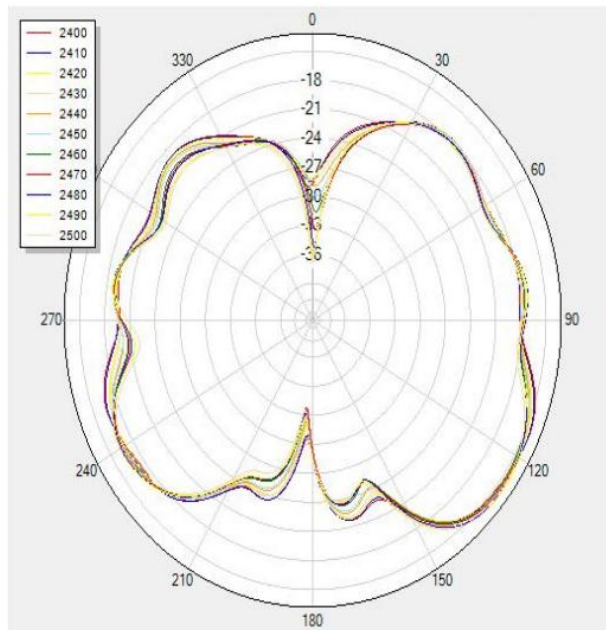
(1) X-Z Plane:

**V Phi=0**



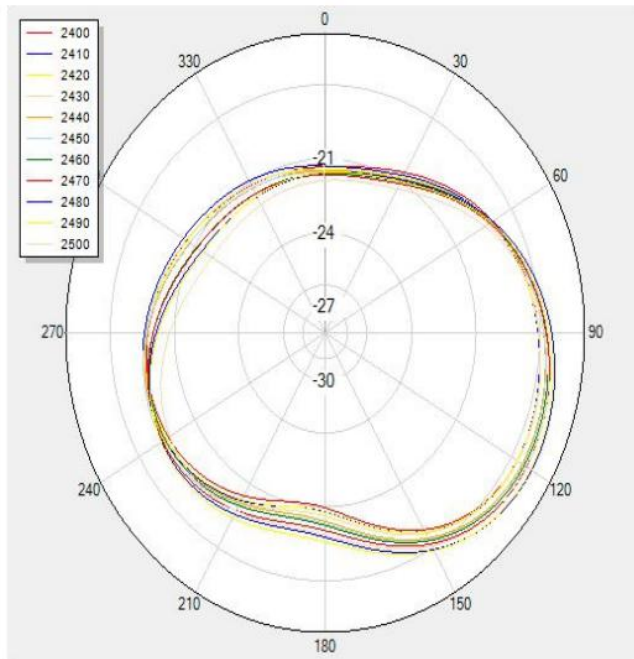
(2) Y-Z Plane:

**V Phi=90**



(3) X-Y Plane:

**H Theta=90**



Typical Free Space 3D Radiation Pattern 2.45GHz:

