



深圳市安特通讯科技有限公司

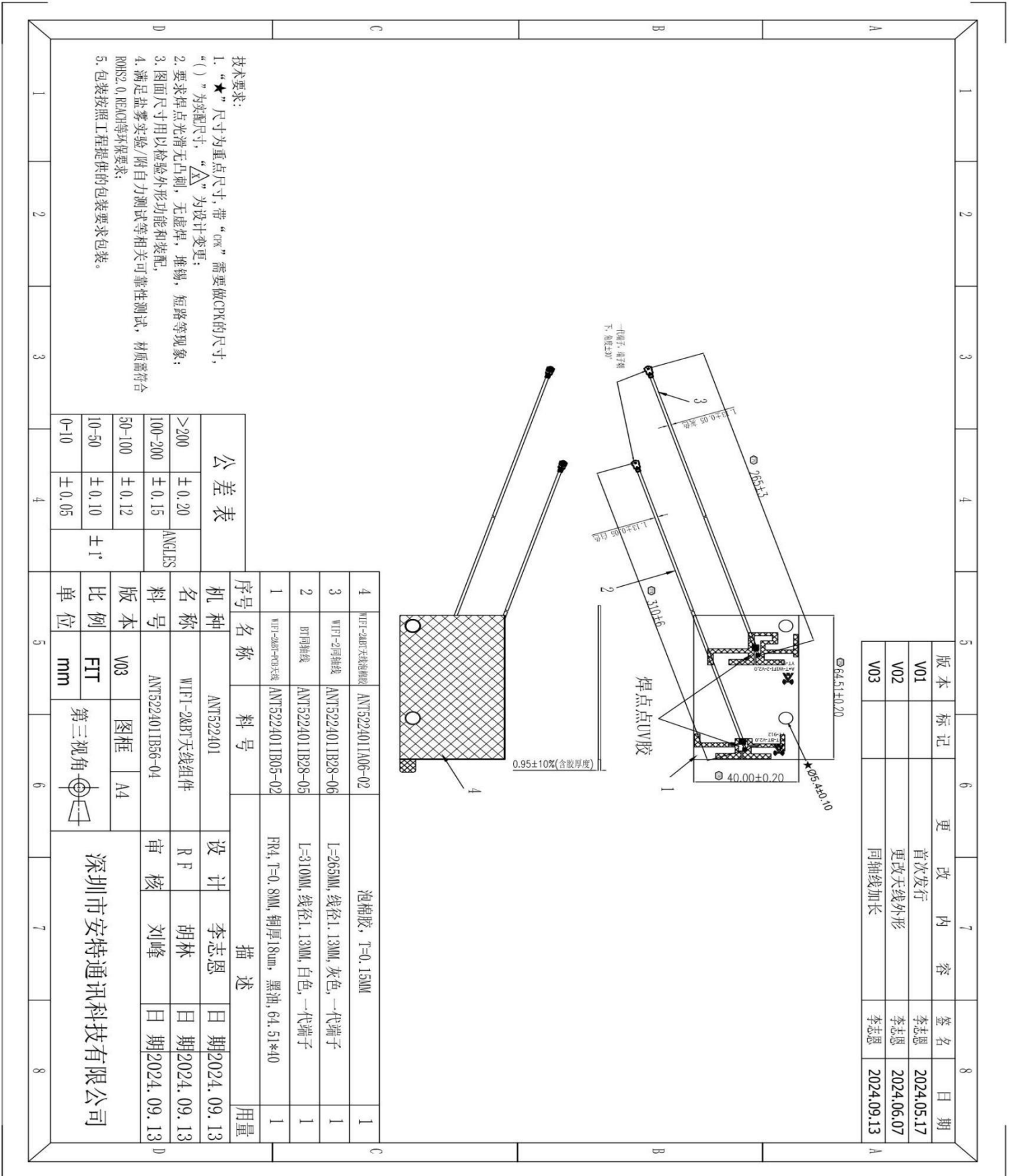
Shenzhen ANT Communication Technology Co., LTD.

## Product specification sheet

customer	益光	project	YT-912-WIFI-2&BT 天线
Customer part number	371912003036	Part number	ANT522401IB56-04
version	V1.0	describe	YT-912-WIFI-2 天线, PCB+Cable 线, 灰色, 一代端子, 1.13 线径, L=265MM, YT-912-WIFI-BT 天线, PCB+Cable 线, 白色, 一代端子, 1.13 线径 L=310MM
RF	HULIN	ME	XUZHENYANG
technical manager	WUBO	date	2025/03/03

customer confirmation	
Does the assembly meet your company's requirements: <input type="checkbox"/> OK <input type="checkbox"/> NG	

1. Structural drawing file



技术要求:

1. “★” 尺寸为重点尺寸, 带“CRK” 需要做CPK的尺寸, “( )” 为实配尺寸, “△” 为设计变更;
2. 要求焊点光滑无凸刺, 无虚焊, 堆锡, 短路等现象;
3. 图面尺寸用以检验外形功能和装配;
4. 满足盐雾实验/附自力测试等相关可靠性测试, 材质需符合ROHS2.0, REACH等环保要求;
5. 包装按照工程提供的包装要求包装。

公差表

尺寸范围	公差	角度公差
>200	±0.20	ANGLES
100-200	±0.15	
50-100	±0.12	
10-50	±0.10	±1°
0-10	±0.05	

机种	名称	料号	版本	图框	比例	单位
ANT522401	WIFI-240T天线组件	ANT522401IB36-04	V03	A4	1:1	mm

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版本	标记	更改内容	签名	日期
V01		首次发行	李志恩	2024.05.17
V02		更改天线外形	李志恩	2024.06.07
V03		同轴线加长	李志恩	2024.09.13

2. Product specifications and technical parameters:

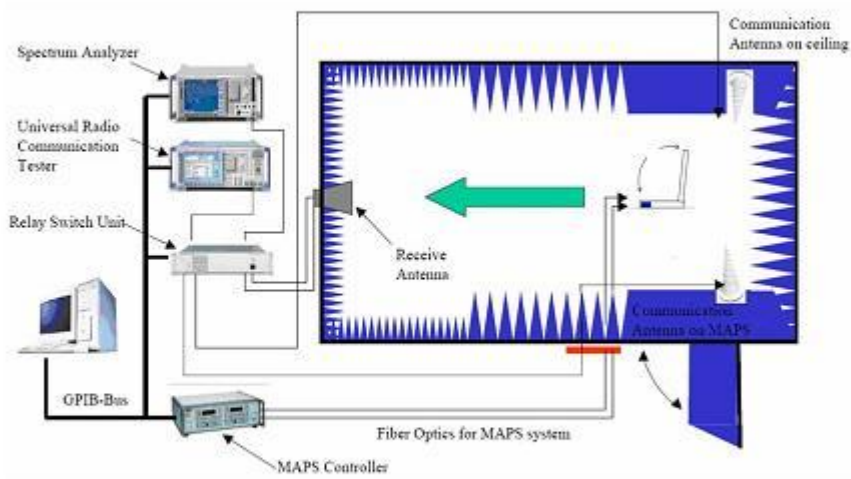
Electrical performance parameters	
Frequency range	2400-2500, 5150-5850MHZ
Impedance	50 Ω
standing-wave ratio	≤2.5
BT-2.4G-Maximum gain	6.07dBi
WiFi-2-2.4G Maximum gain	6.57dBi
WiFi-2-5.8G Maximum gain	3.64dBi
Polarization mode	vertical
Radiation direction	Omnidirectional
mechanical parameters	
Antenna size	64.51*40.18MM
Coaxial line type	Φ1.13
Joint type	First generation terminals
Salt spray test	24H
Environmental parameters	
operation temperature	-45℃--+85℃

### 3. Test equipment

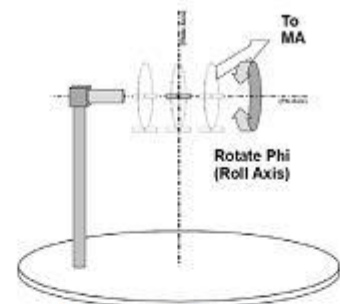
3.1. Agilent E5071C

3.2. CMW500 Agilent 8960

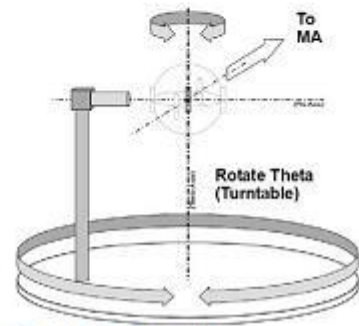
3.3. SATIMO-16 XH-24



(Testing by 3D anechoic chamber)



Phi axis test

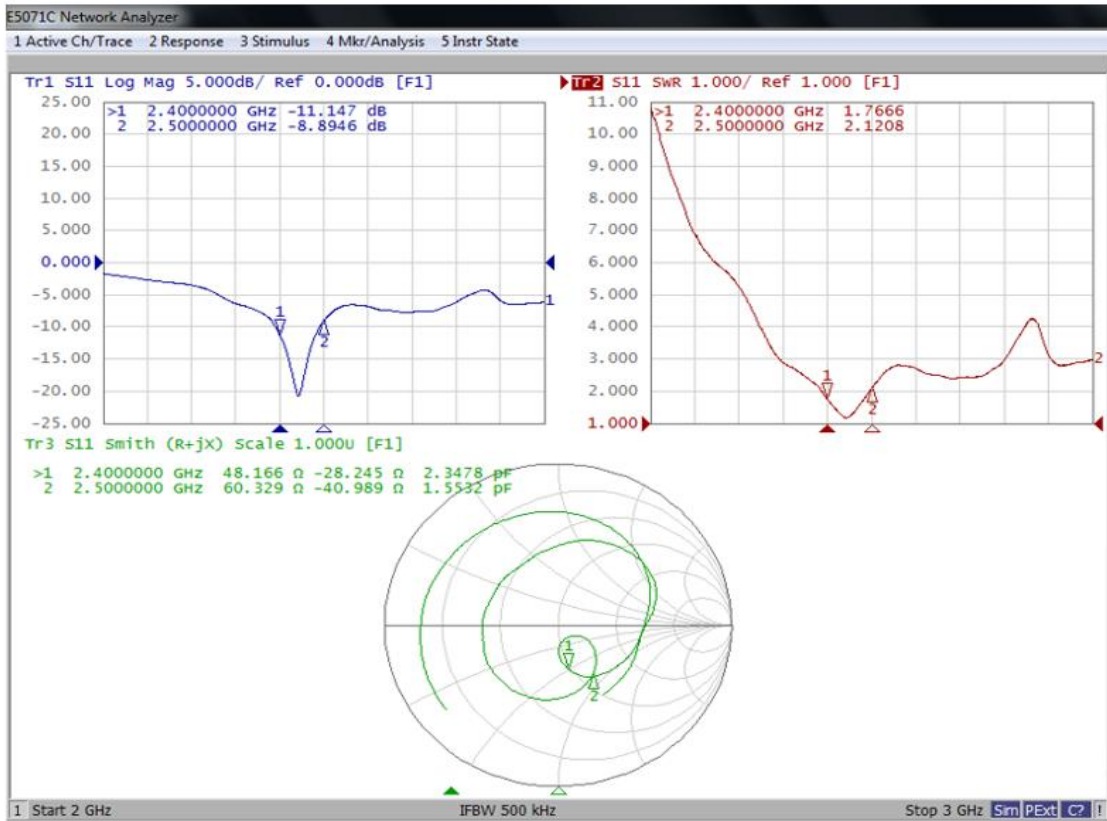


Theta axis test

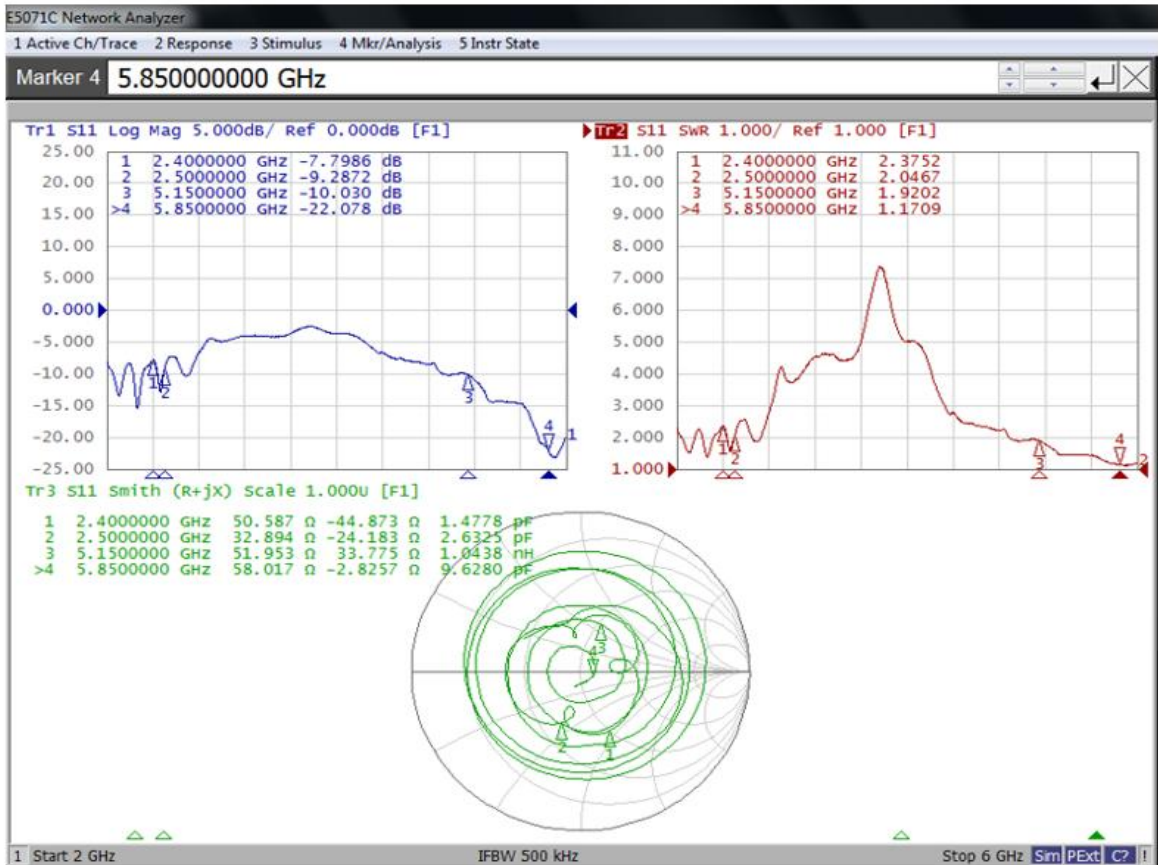
## 4. Antenna testing parameters

### S11

BT



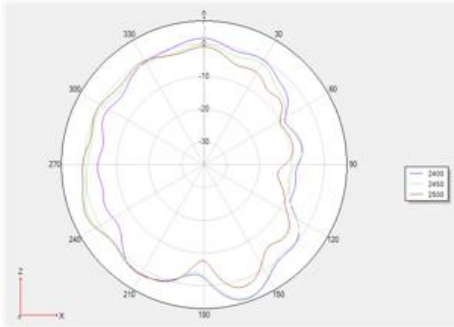
Wifi-2



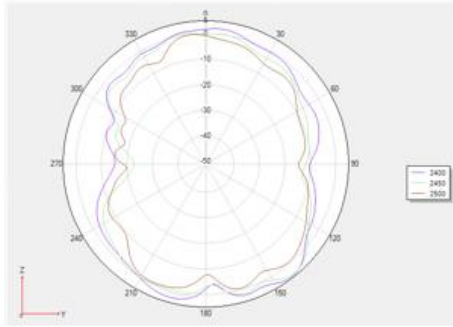
BT

2D-Etotal (2400/2450/2500Mhz)

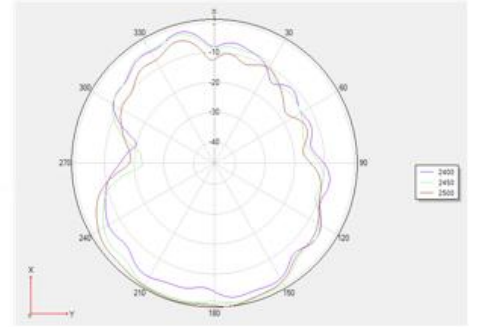
Phi 0 2D



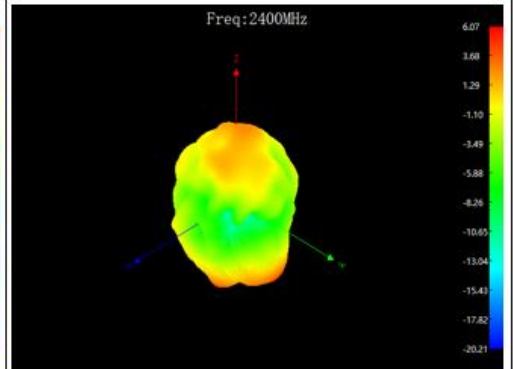
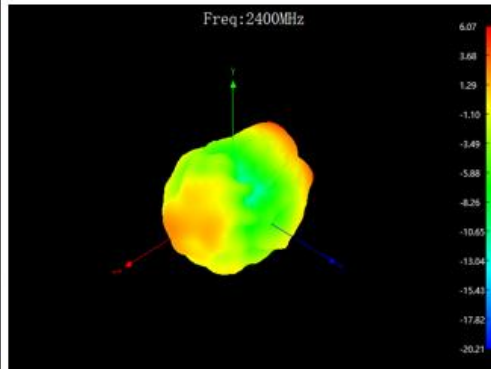
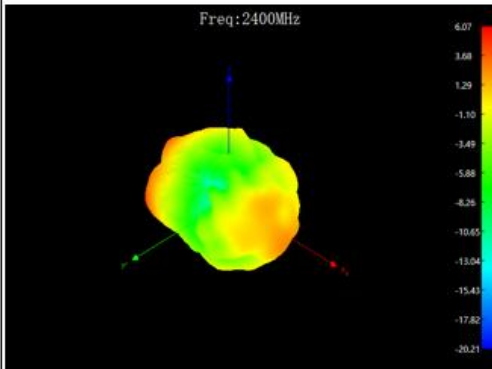
Phi 90 2D



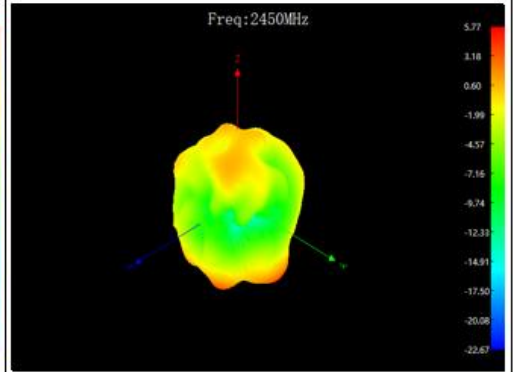
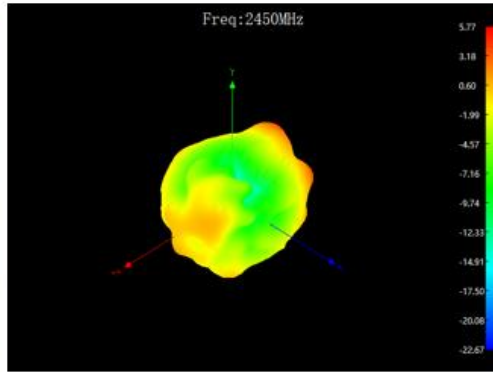
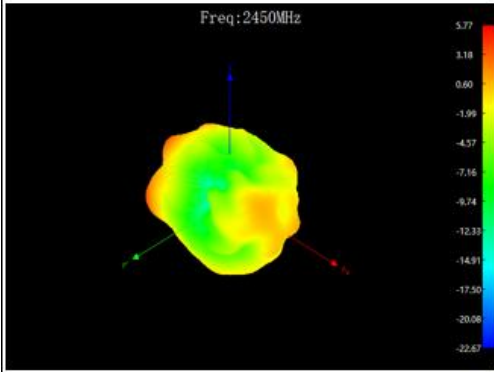
Theta 90 2D



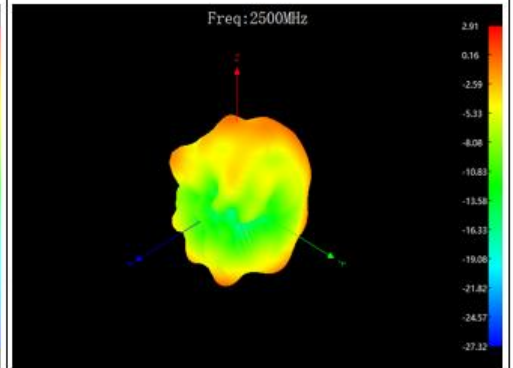
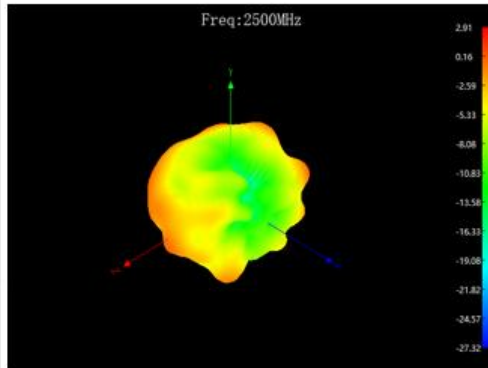
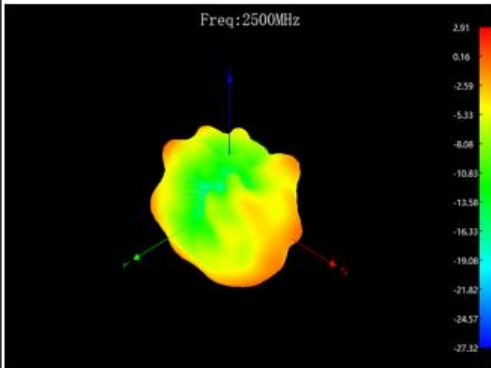
3D-Etotal (2400Mhz)



3D-Etotal (2450Mhz)



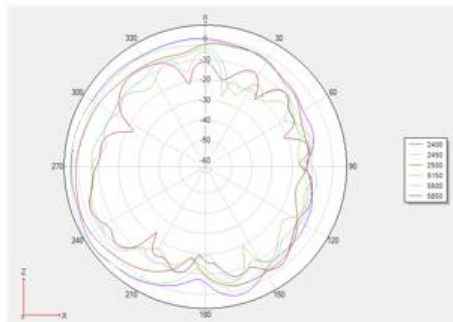
3D-Etotal (2500Mhz)



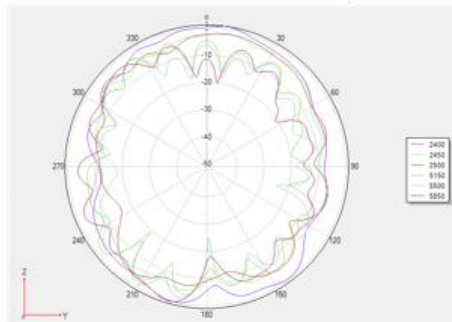
Wifi-2

2D-Etotal (2400/2450/2500/5150/5500/5850Mhz)

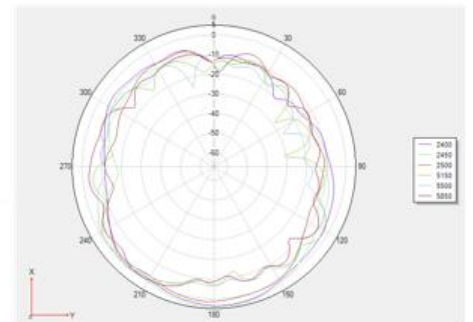
Phi 0 2D



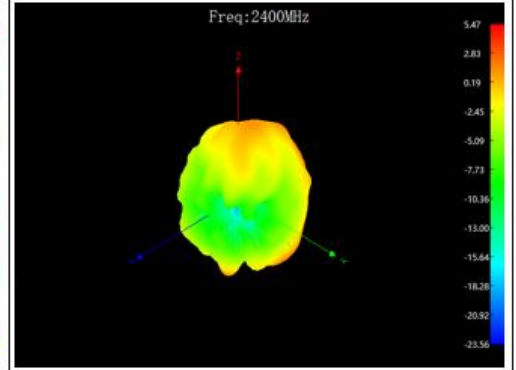
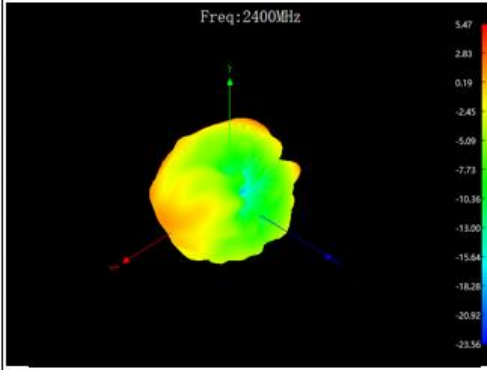
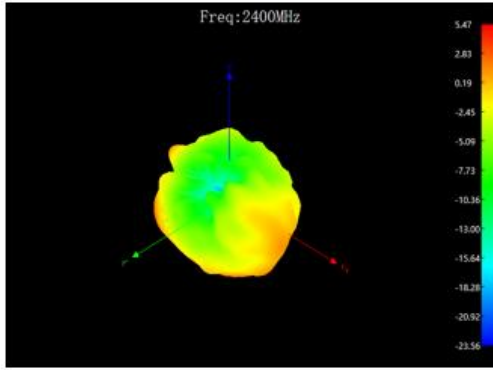
Phi 90 2D



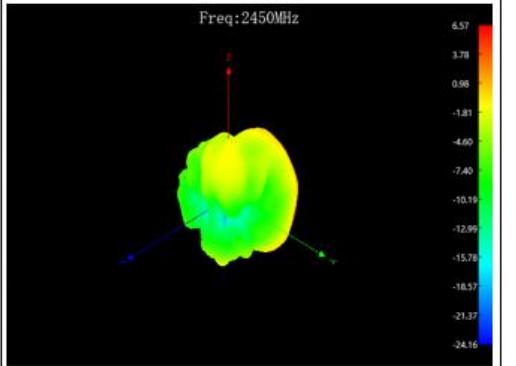
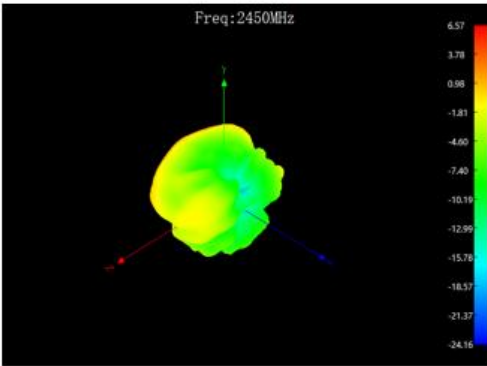
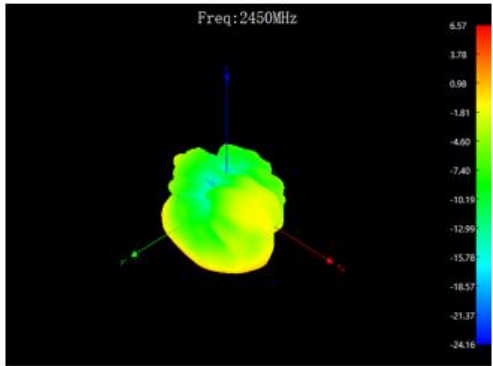
Theta 90 2D



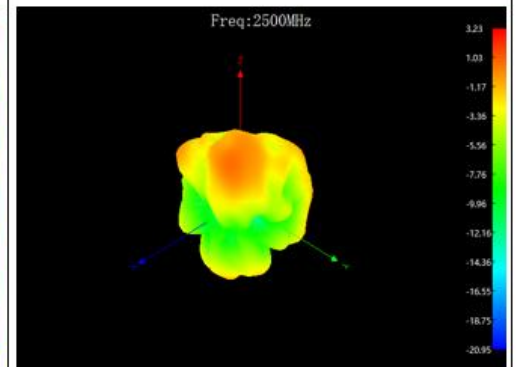
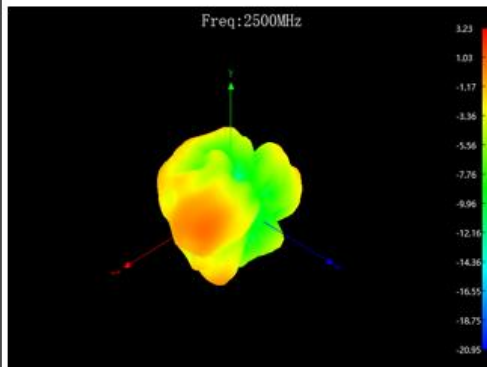
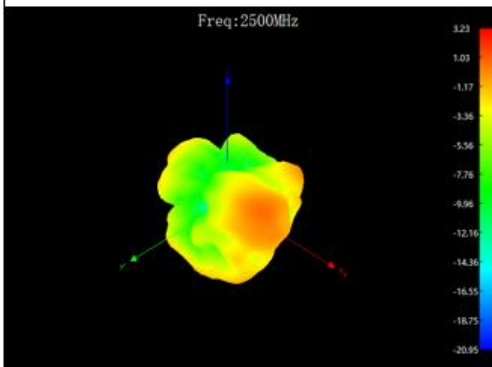
### 3D-Etotal (2400Mhz)



### 3D-Etotal (2450Mhz)

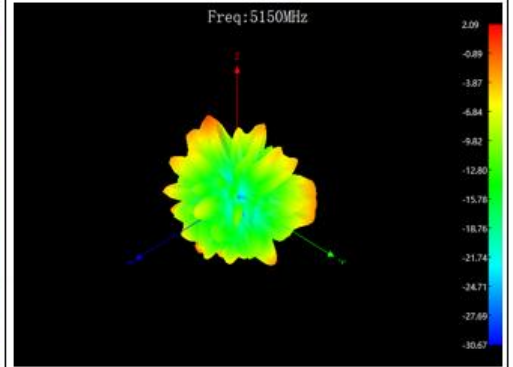
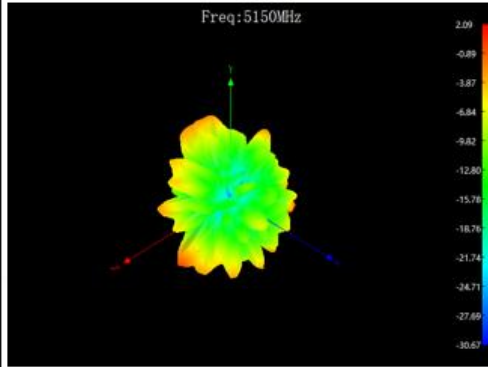
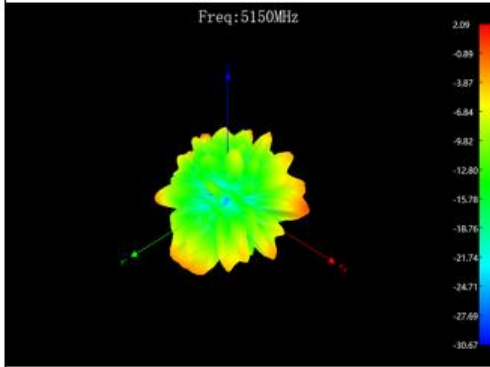


### 3D-Etotal (2500Mhz)

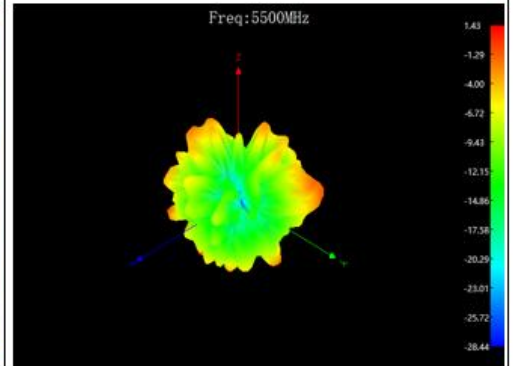
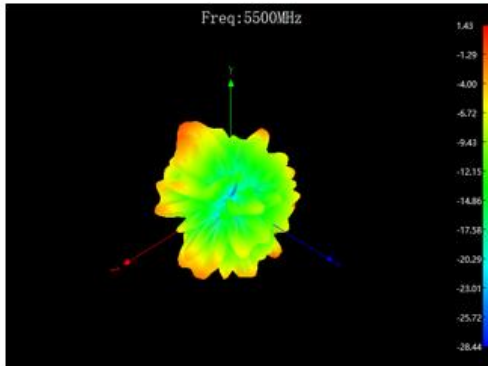
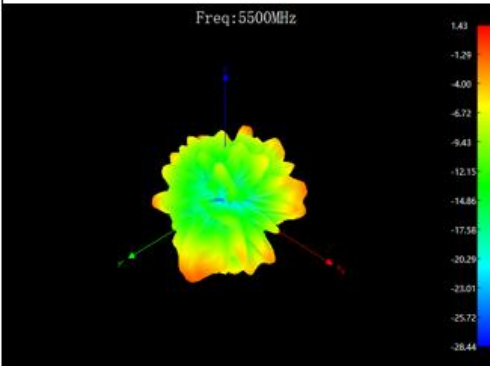




### 3D-Etotal (5150Mhz)



### 3D-Etotal (5500Mhz)



### 3D-Etotal (5850Mhz)

