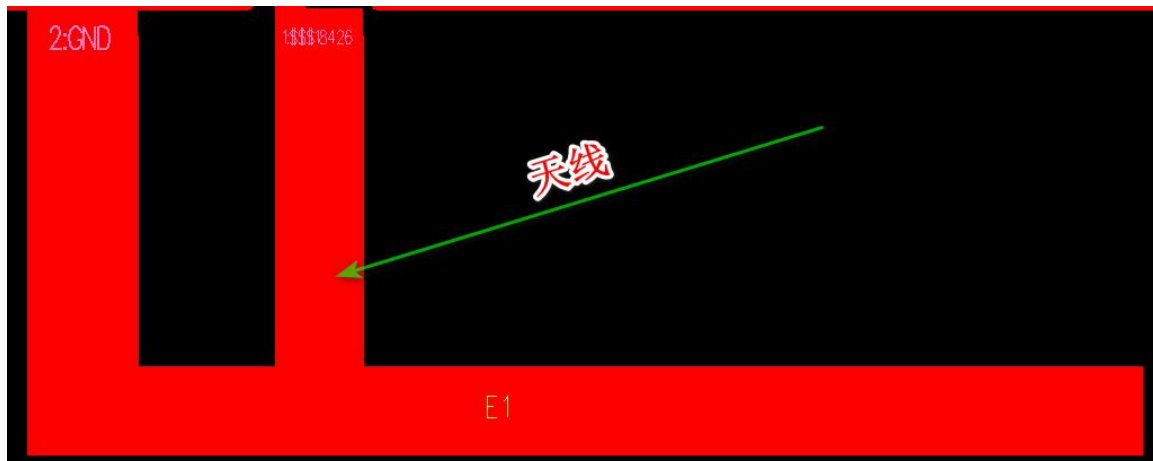


# Antenna Specification

## 1、Electrical performance

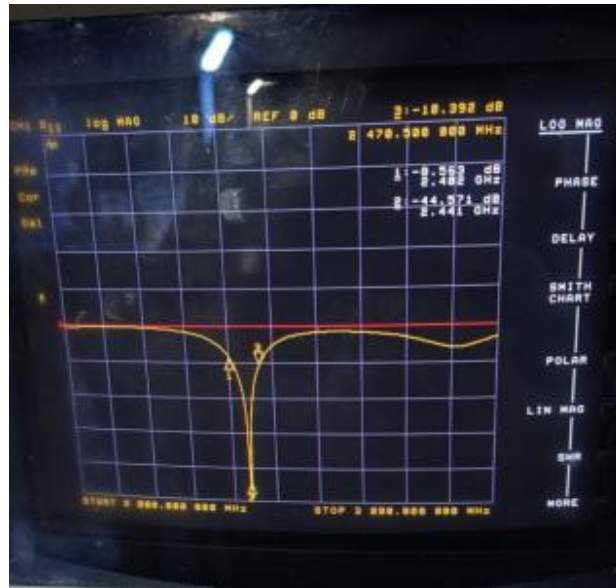
- 1.1) Type of Antenna: PCB Antenna
- 1.2) Frequency range: 2400MHz ~ 2500MHz
- 1.3) Gain:3.05 dBi
- 1.4) Impedance: 50 ohm
- 1.5) VSWR: $\leq 1.8$
- 1.6) Return Loss: $< -10\text{dB}$
- 1.7) Polarization: Linear
- 1.8) Radiation: Omni-directional
- 1.9) Model: ATS-10
- 1.10) Manufacturer: Shenzhen Antexin Technology Co.,Ltd
- 1.11) Brand: Shenzhen Antexin Technology Co.,Ltd

## 2、Antenna graph



(a) PCB Antenna

## 3、Network analyzer graph



(b) Return Loss



(c) VSWR



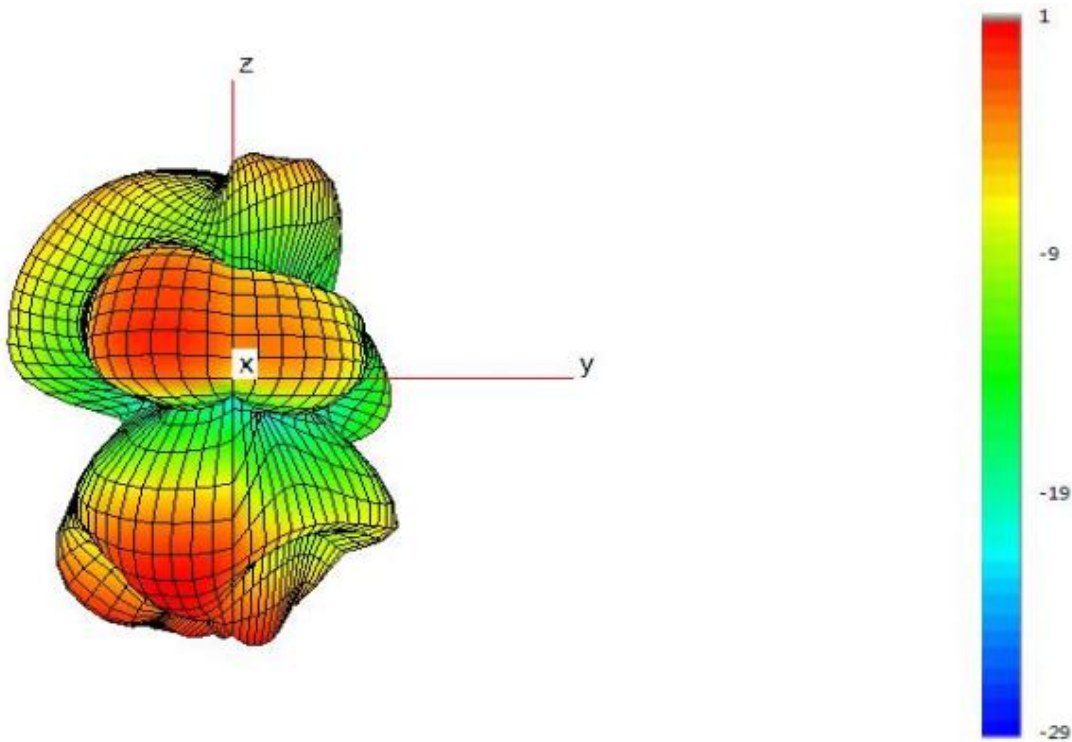
(d) Smith Chart

## 4、 Gain pattern

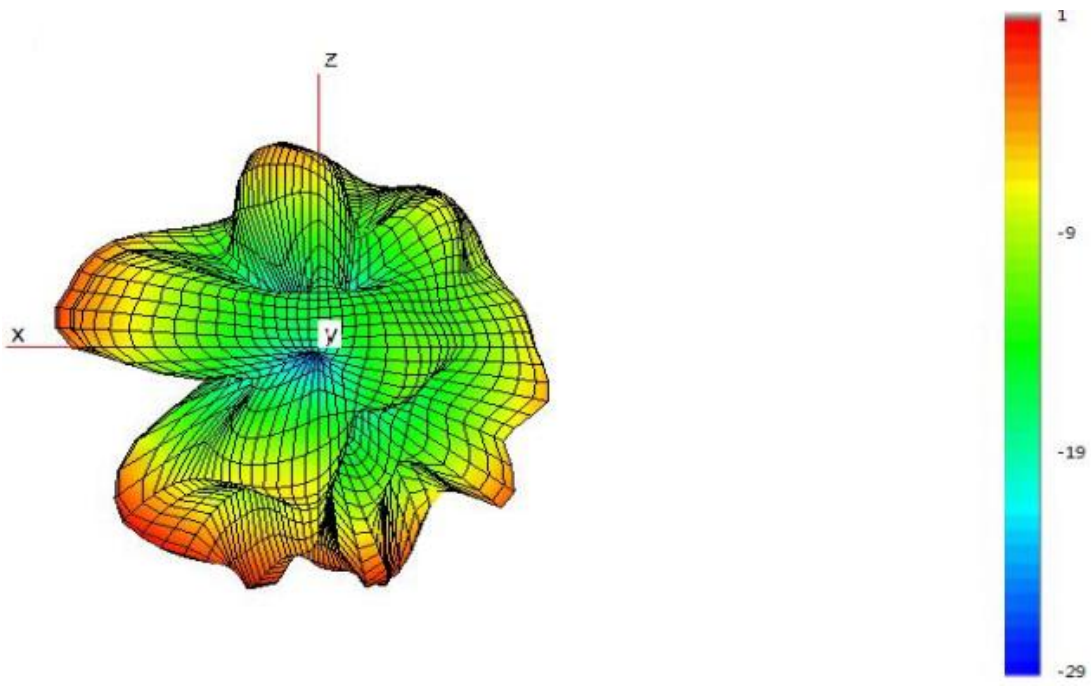
### 4.1) Gain chart

Freq (MHz)	Gain (dB)	Efficiency (dB)	Efficiency (%)
2400	2.27	-3.05	49.52
2410	2.51	-2.99	50.29
2420	2.69	-2.88	51.46
2430	2.95	-2.72	53.51
2440	3.05	-2.63	54.52
2450	2.94	-2.69	53.81
2460	2.69	-2.70	53.74
2470	2.68	-2.68	53.93
2480	2.65	-2.67	54.06
2490	2.20	-2.81	52.35
2500	2.00	-2.83	52.07
Mean value	2.60	-2.79	52.66

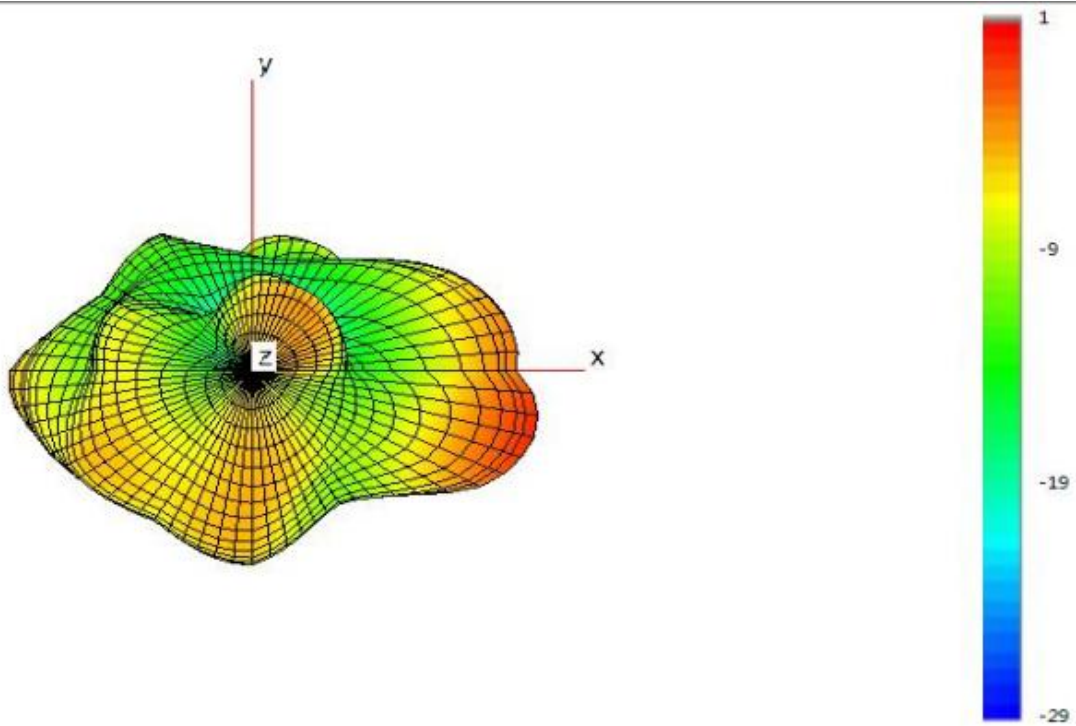
### 4.2) 3D gain pattern



(e) 2.45GHZ 3D gain pattern, X+

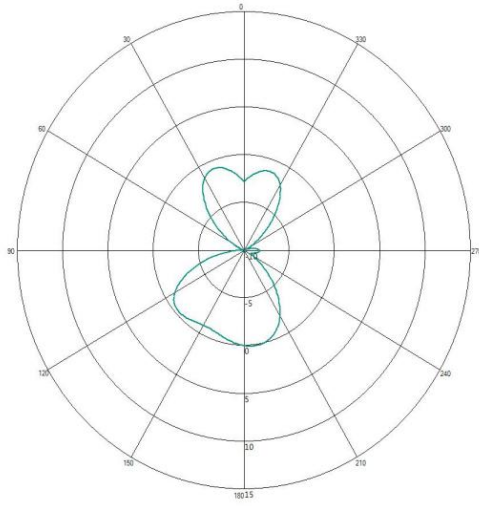


(f) 2.45GHZ 3D gain pattern, Y+

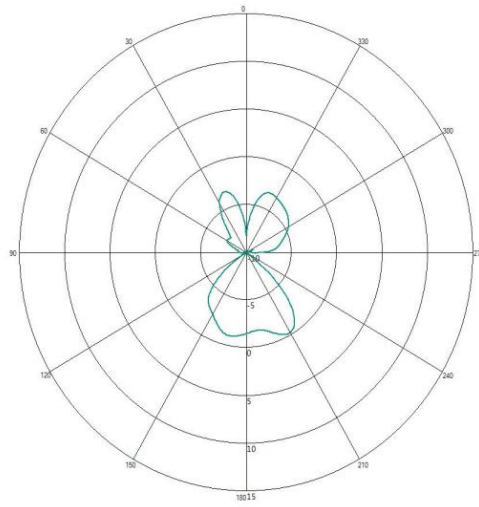


(g) 2.45GHZ 3D gain pattern, Z+

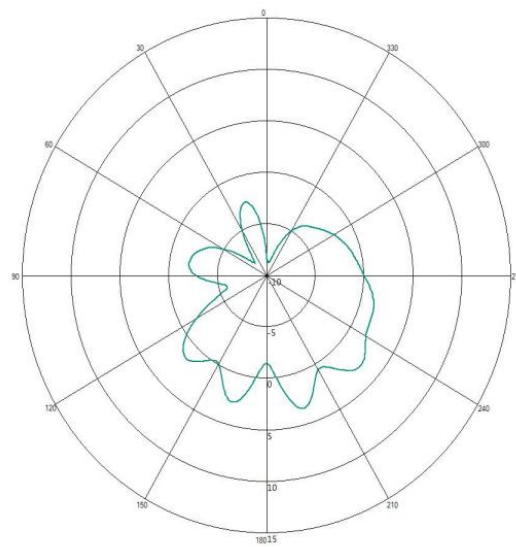
#### 4.3) 2D gain pattern



**(H) (XY-Plane)**



**(I) (ZY-Plane)**



**(J) (ZX-Plane)**

