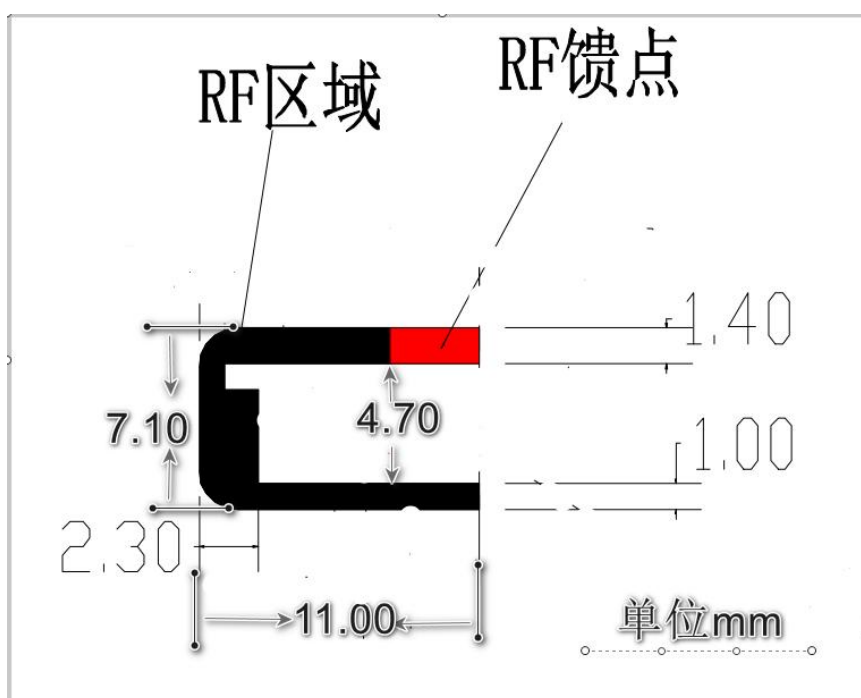


# ATL-69-Antenna Specification

## 1、Electrical performance

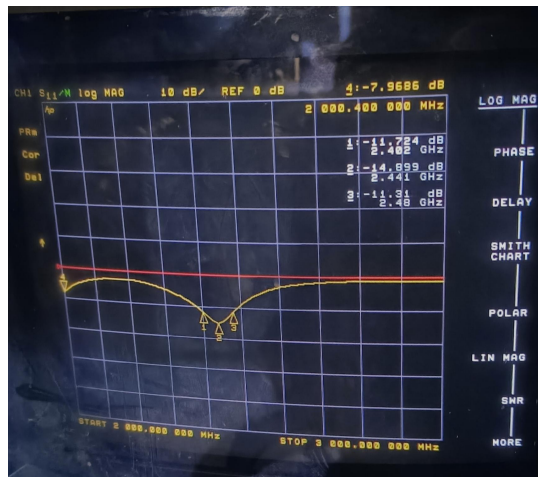
- 1.1) Type of Antenna: FPC antenna
- 1.2) Frequency range: 2400MHz ~ 2500MHz
- 1.3) Gain: 0 . 0 1 dBi
- 1.4) Impedance: 50 ohm
- 1.5) VSWR:  $\leq 2$
- 1.6) Return Loss:  $\leq -10$  dB
- 1.7) Polarization: Linear
- 1.8) Radiation: Omni-directional
- 1.9) Model: ATL-69
- 1.10) Manufacturer: Guangdong Antexin Technology Co., LTD
- 1.11) Brand: Guangdong AntexinTechnology Co., LTD

## 2、Antenna graph

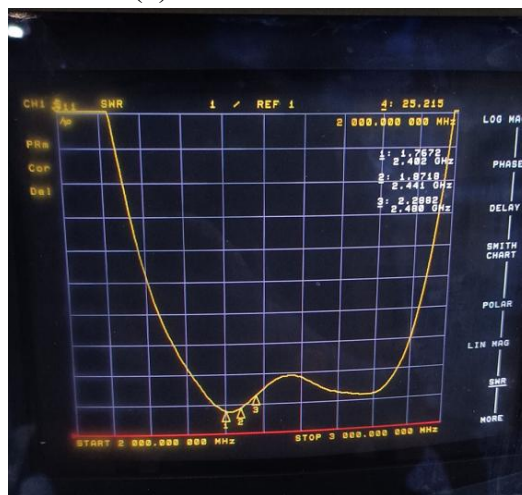


(a) FPC antenna

### 3、 Network analyzer graph



(b) Return Loss



(c) VSWR



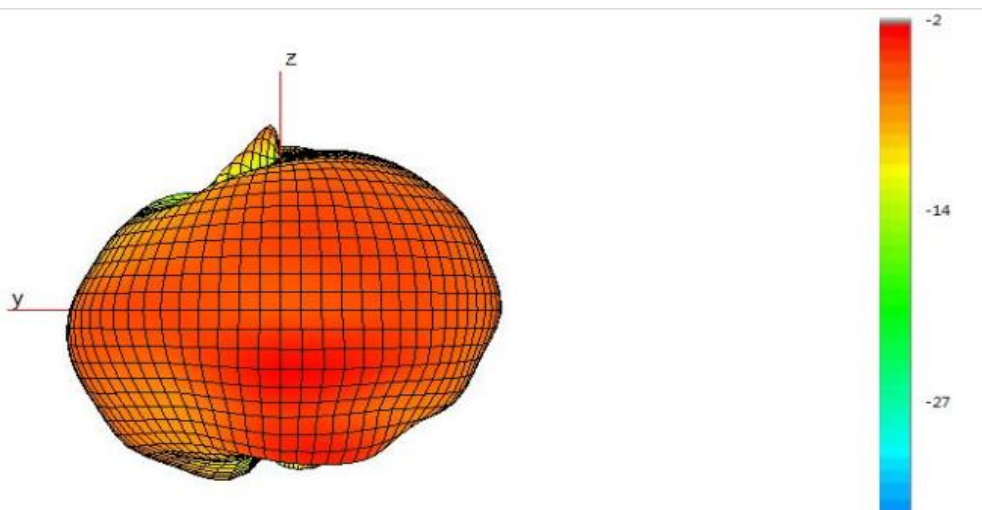
(d) Smith Cha

## 4、 Gain pattern

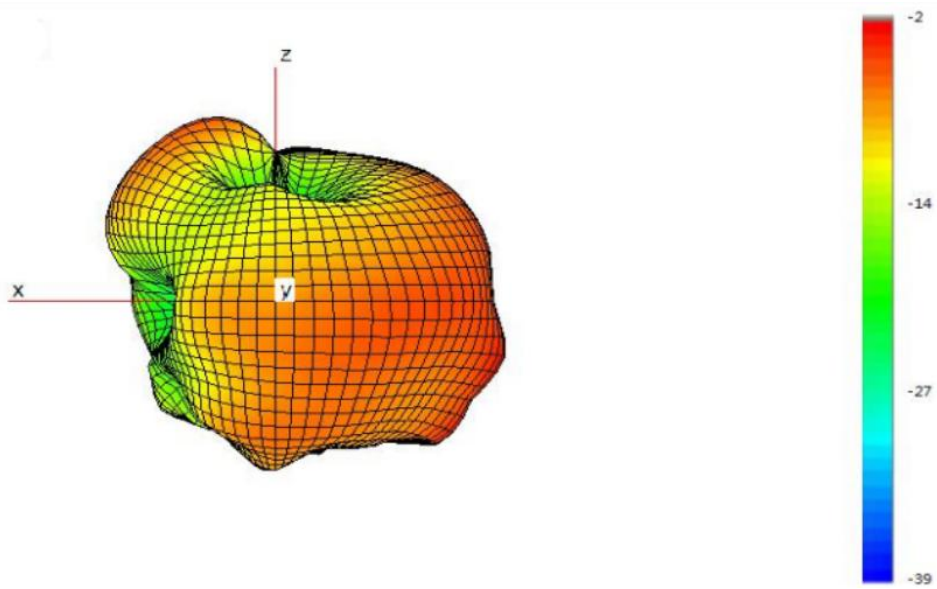
### 4.1) Gain chart

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-0.027567	-5.967670	22.183531
2410	0.008363	-5.974231	24.732735
2420	-1.463572	-7.499502	24.280018
2430	-1.263243	-7.368384	29.141110
2440	-0.216850	-6.301367	35.413908
2450	-1.164290	-7.251733	39.889527
2460	-1.366772	-7.445782	37.348208
2470	-0.695622	-6.751735	37.974524
2480	-0.488537	-6.334024	33.647860
2490	-0.520680	-6.543233	27.760726
2500	-0.973722	-6.922833	24.938536

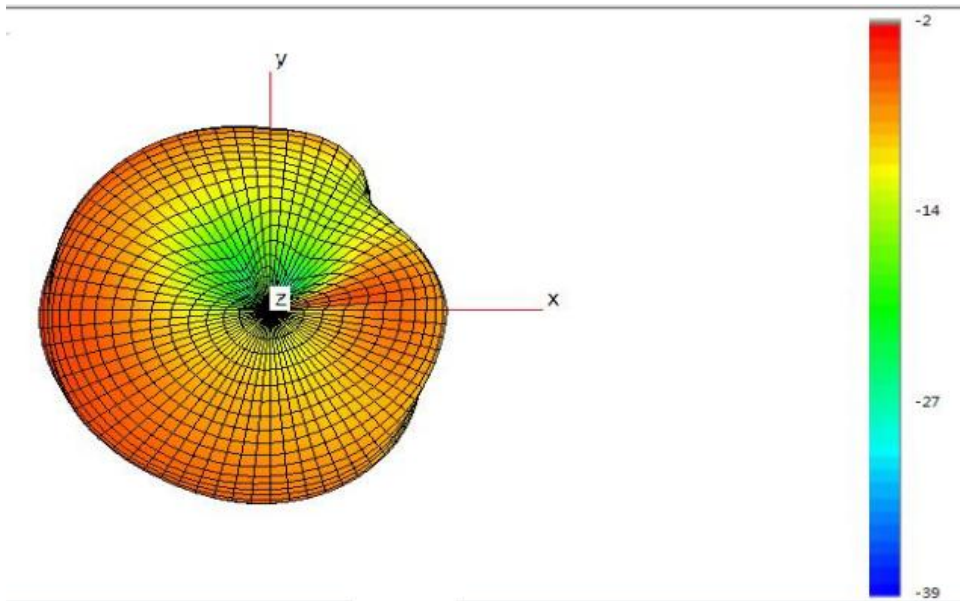
### 4.2) 3D gain pattern



(e) 3D gain pattern, X+



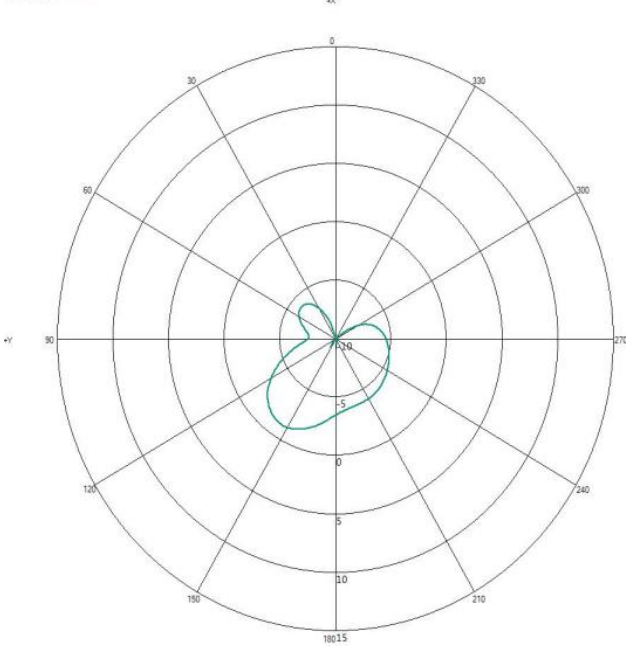
(f) 3D gain pattern, Y+



(g) 3D gain pattern, Z+

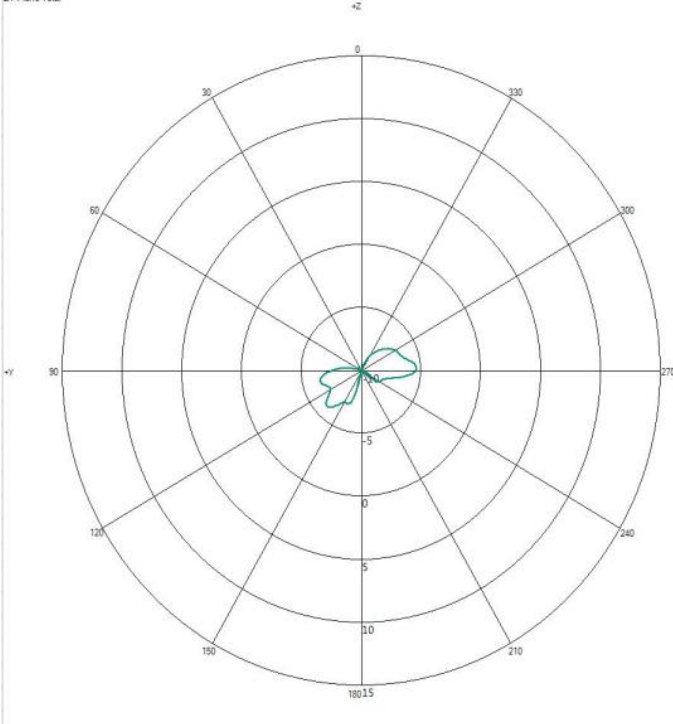
4.3) 2D gain pattern

Channel (MHz) 2440 XY-Plane Max. (dB) -1.24537 Ave. (dB) -5.2345



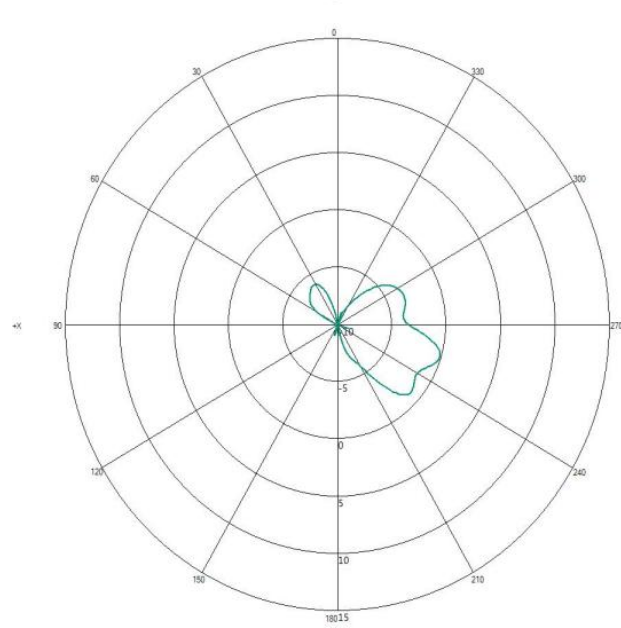
(f) 2440MHZ FPC antenna (XY-Plane)

Channel (MHz) 2440 ZY-Plane Max. (dB) -5.46167 Ave. (dB) -8.49089



(g) 2440MHZ FPC antenna (ZY-Plane)

Channel (MHz) 2440 ZX-Plane Max. (dB) -0.21685 Ave. (dB) -5.70852  
ZX-Plane Total



(h) 2440MHZ FPC antenna (ZX-Plane)