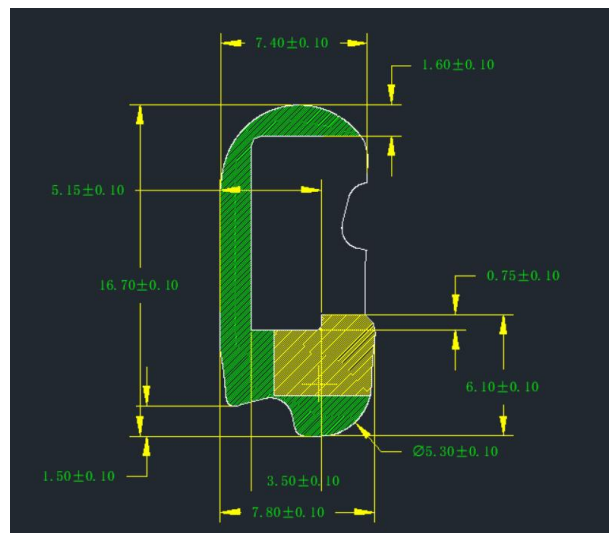


Antenna Specification

1、Electrical performance

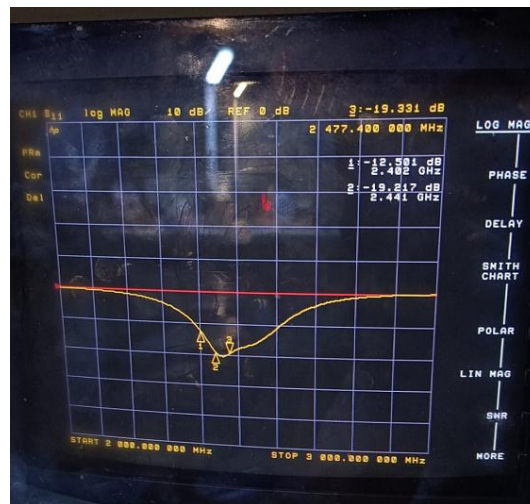
- 1.1) Type of Antenna: FPC antenna
- 1.2) Frequency range: 2400MHz ~ 2500MHz
- 1.3) Gain: 1.63dBi
- 1.4) Impedance: 50 ohm
- 1.5) VSWR: ≤ 2
- 1.6) Return Loss: ≤ -10 dB
- 1.7) Polarization: Linear
- 1.8) Radiation: Omni-directional
- 1.9) Model: ATL-87
- 1.10) Manufacturer: Guangdong Antexin Technology Co., LTD
- 1.11) address: Qunyizhican Manufacturing Industrial Park, South of Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, Huizhou

2、Antenna graph

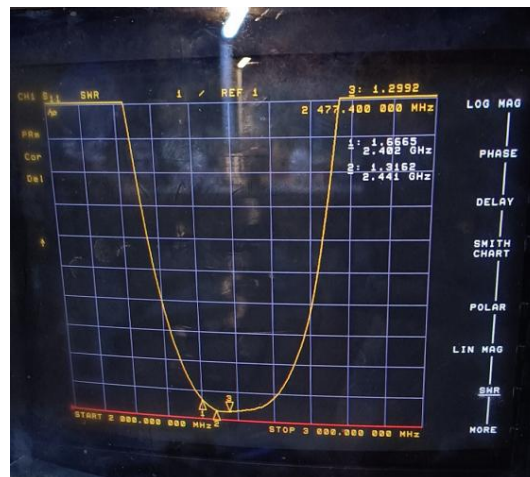


(a) FPC antenna

3、 Network analyzer graph



(b) Return Loss



(c) VSWR



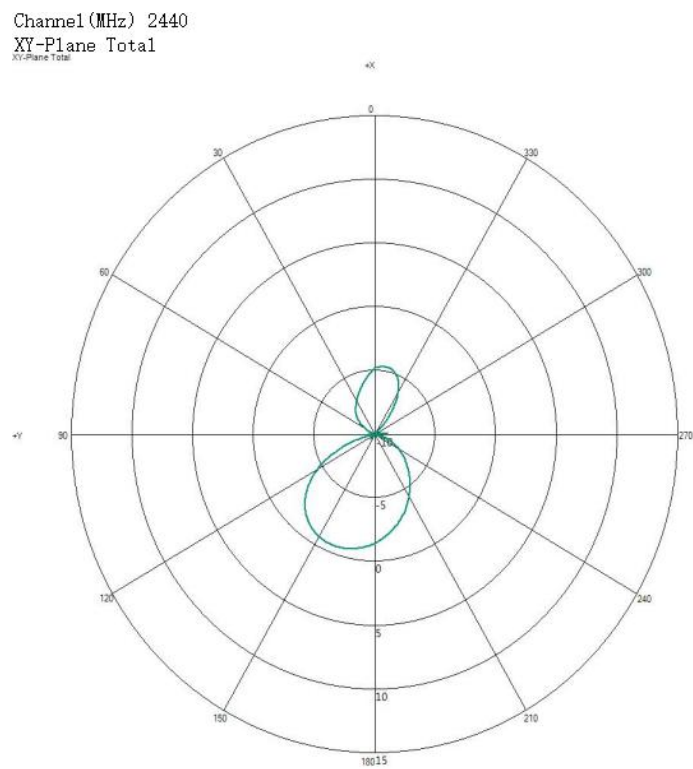
(d) Smith Cha

4、 Gain pattern

4.1) Gain chart

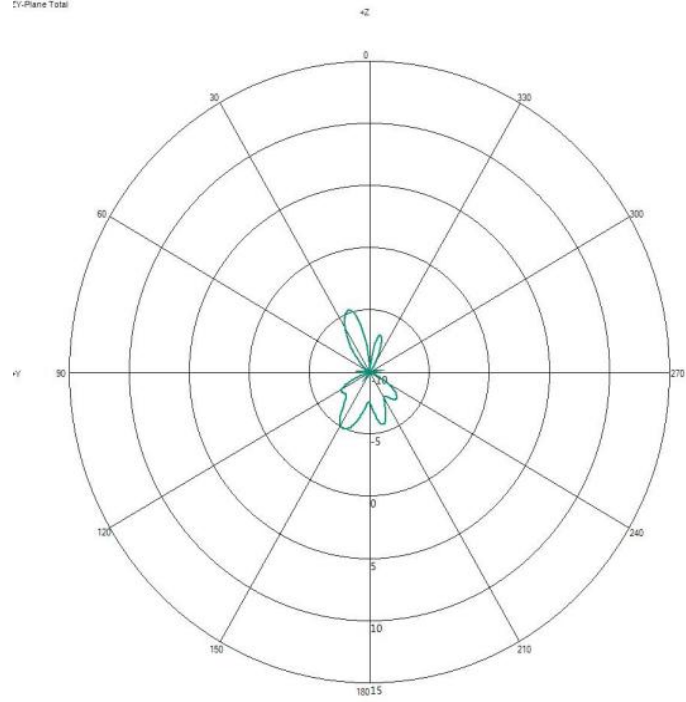
Freq(MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
2400	1.14	-5.55	29.56
2410	1.48	-5.14	29.03
2420	1.63	-4.88	31.26
2430	0.84	-5.63	27.86
2440	1.07	-5.30	30.61
2450	1.14	-5.18	32.50
2460	0.53	-5.57	29.54
2470	0.78	-5.17	30.35
2480	0.79	-5.04	27.75
2490	0.42	-5.20	30.42
2500	-0.66	-6.02	31.34

4.2) 2D gain pattern



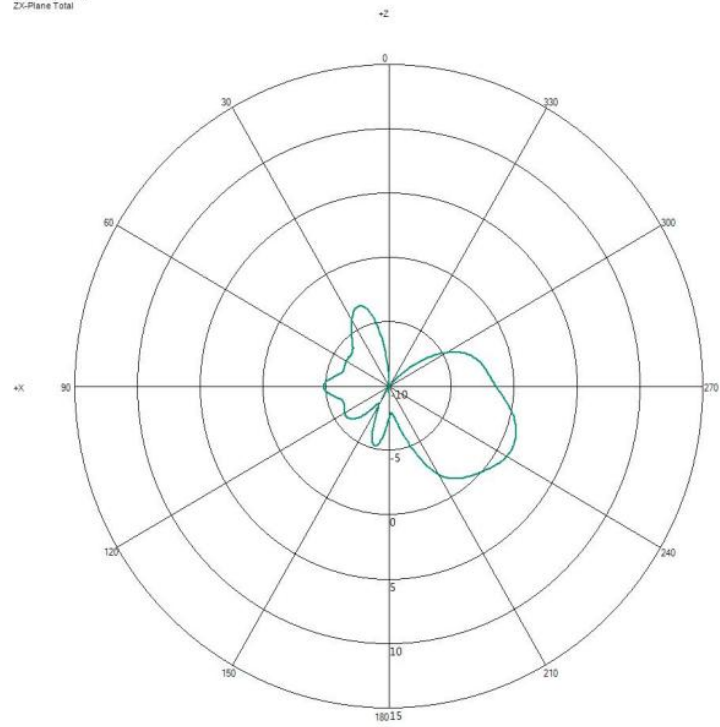
(f) 2440MHZ FPC antenna (XY-Plane)

Channel (MHz) 2440
ZY-Plane Total



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

Channel (MHz) 2440
ZX-Plane Total



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