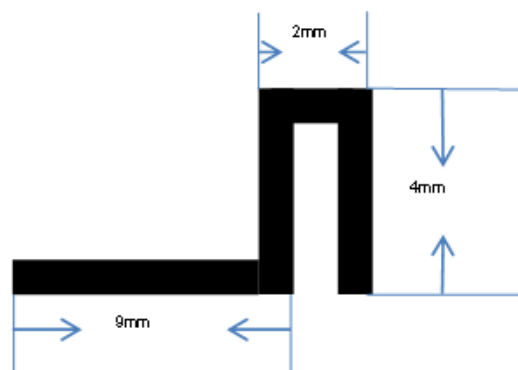


# Antenna Specification

## 1、Electrical performance

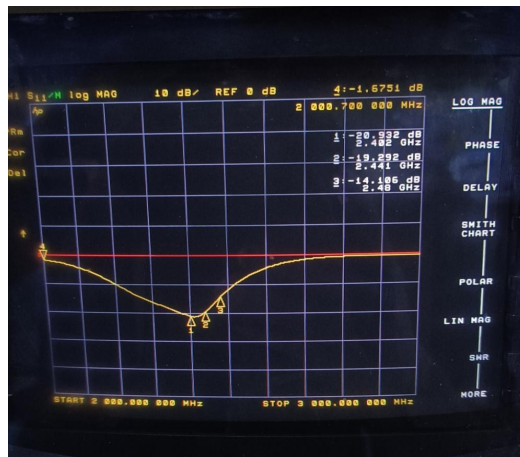
- 1.1) Type of Antenna: **FPC antenna**
- 1.2) Frequency range: 2400MHz ~ 2500MHz
- 1.3) Gain: -1dBi
- 1.4) Impedance: 50 ohm
- 1.5) VSWR:  $\leq 2$
- 1.6) Return Loss:  $\leq -10$  dB
- 1.7) Polarization: Linear
- 1.8) Radiation: Omni-directional

## 2、Antenna graph

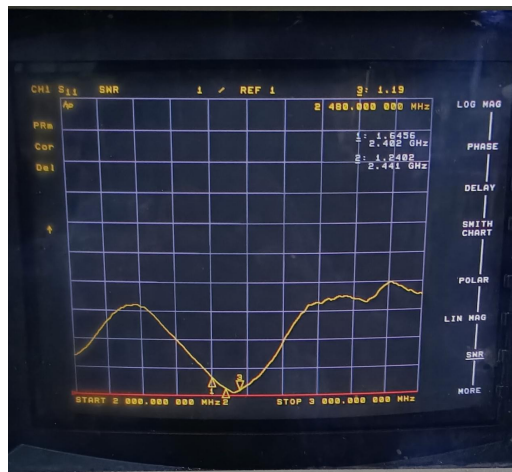


(a) On-board antenna

### 3、 Network analyzer graph



(b) Return Loss



(c) VSWR



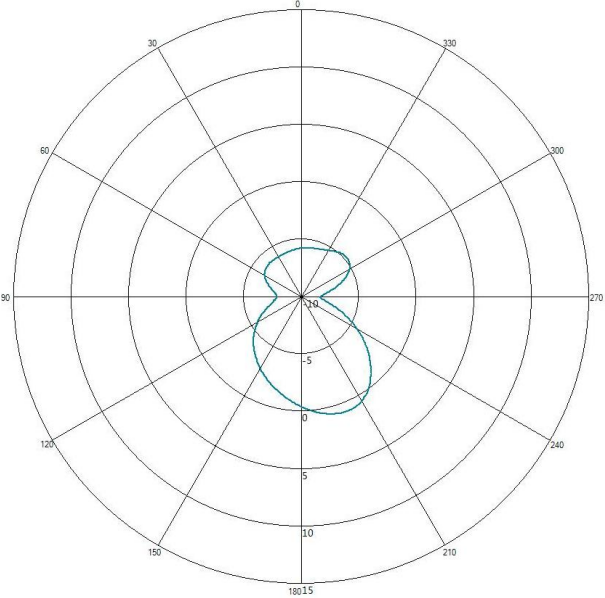
(d) Smith Cha

### 4、 Gain pattern

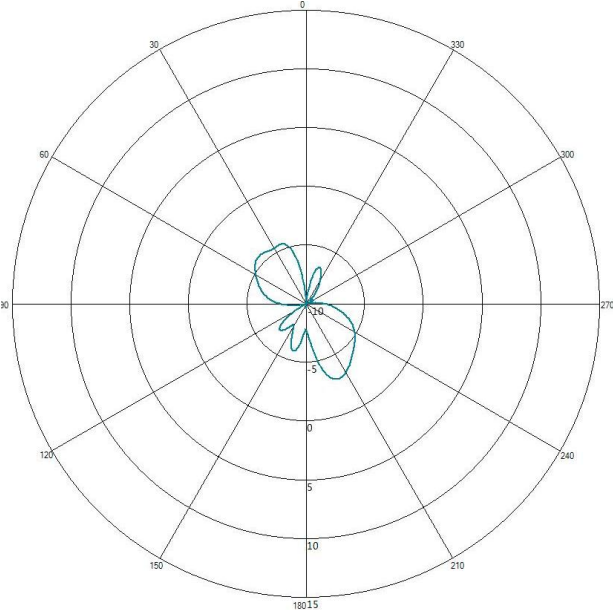
#### 4.1) Gain chart

Freq (MHz)	Gain (dB)	Efficiency (dB)	Efficiency (%)
2400	-1.00	-5.09	25.52
2410	-1.55	-4.60	27.36
2420	-1.34	-4.37	28.34
2430	-1.26	-4.18	29.15
2440	-1.32	-4.11	30.47
2450	-1.49	-4.21	29.03
2460	-1.86	-4.49	27.82
2470	-1.15	-4.72	26.92
2480	-1.16	-4.97	25.97
2490	-1.16	-5.30	24.78
2500	-1.38	-5.70	23.47

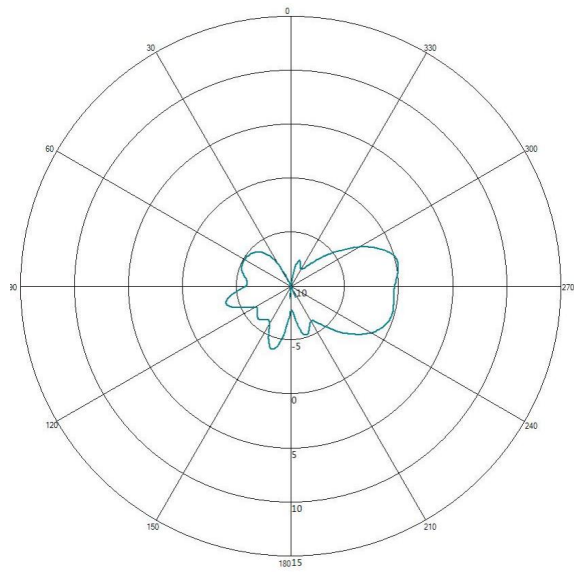
4.3) 2D gain pattern



(f) On-board antenna (XY-Plane)



(g) On-board antenna , (ZY-Plane)



(h) On-board antenna , (ZX-Plane)