

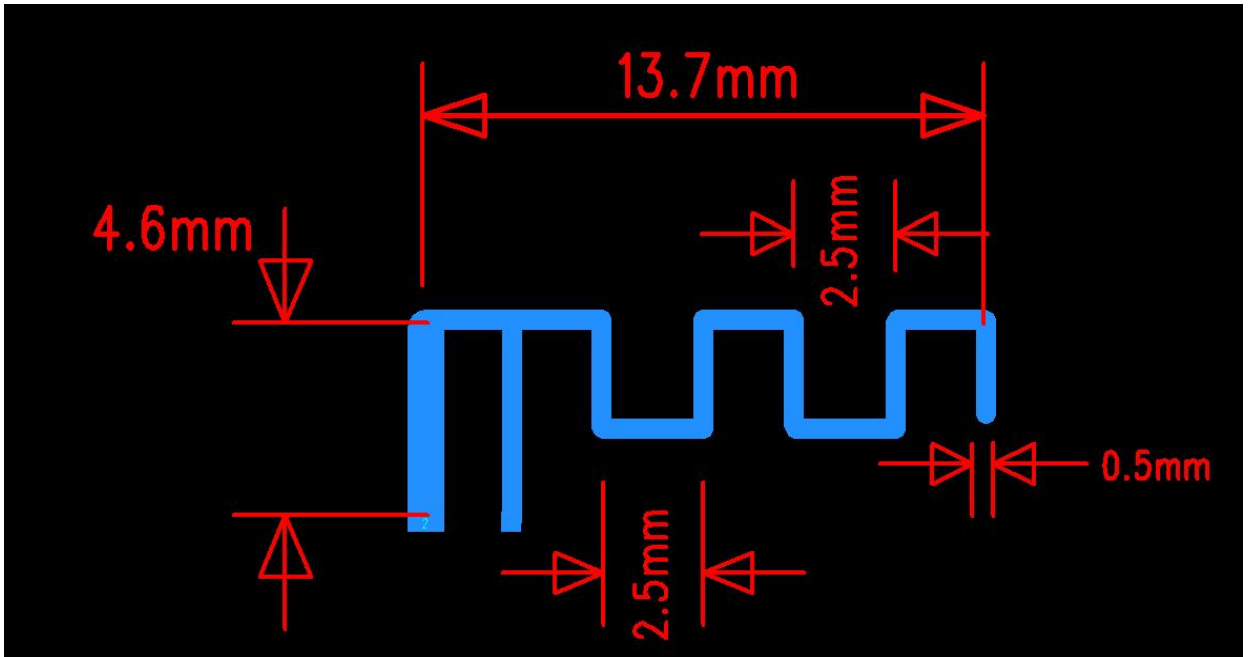
**ShenZhen Lenodell Technology Co.,Ltd**

Add: 5th Floor, Building B, Wentao Industrial Park, Yongxin Street,  
Yingrenshi Community, Shiyan Street, Baoan District, Shenzhen

---

1, mechanical dimension

a, antenna dimension



b. antenna final figure

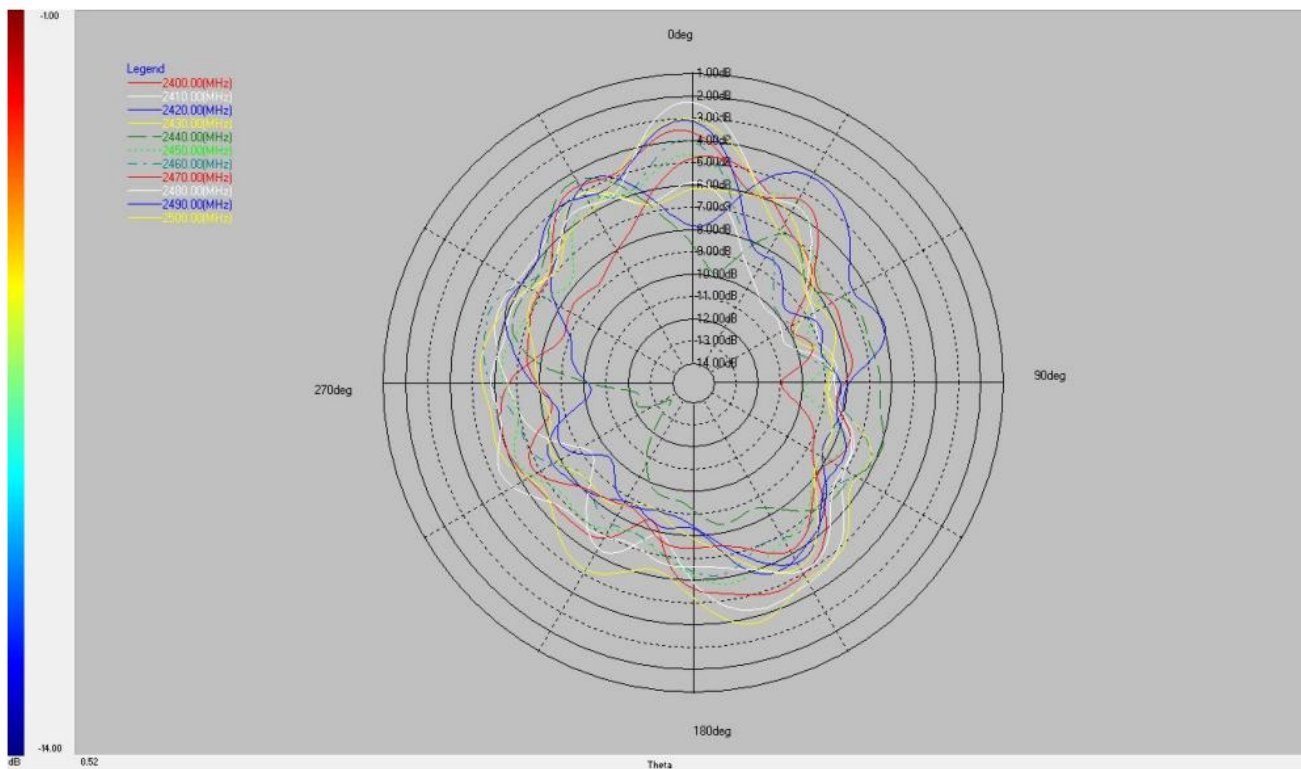


# ShenZhen Lenodell Technology Co.,Ltd

Add: 5th Floor, Building B, Wentao Industrial Park, Yongxin Street,  
Yingrenshi Community, Shiyan Street, Baoan District, Shenzhen

## 1. 2D Radiation Pattern

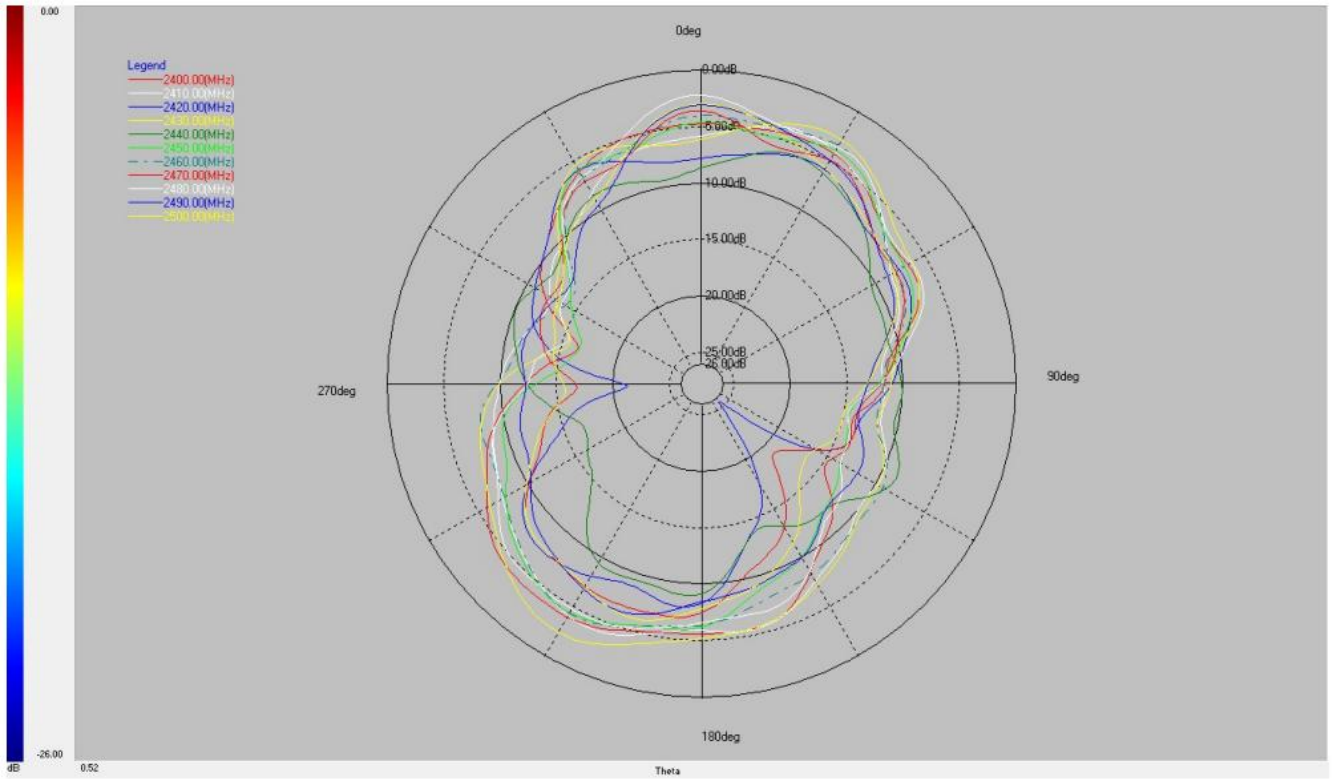
Phi=0°



# ShenZhen Lenodell Technology Co.,Ltd

Add: 5th Floor, Building B, Wentao Industrial Park, Yongxin Street,  
Yingrenshi Community, Shiyan Street, Baoan District, Shenzhen

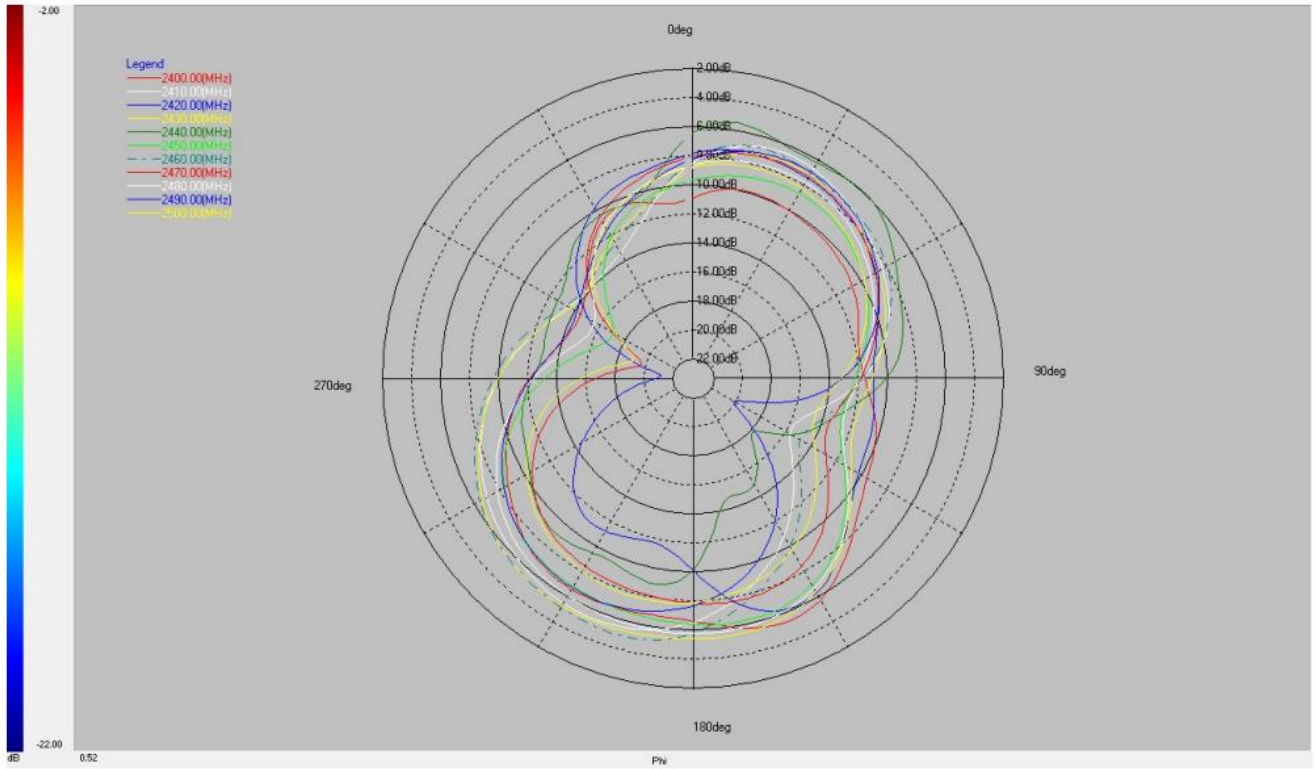
Phi=90°



# ShenZhen Lenodell Technology Co.,Ltd

Add: 5th Floor, Building B, Wentao Industrial Park, Yongxin Street,  
Yingrenshi Community, Shiyan Street, Baoan District, Shenzhen

Theta=90°



d. antenna model: L-003-F2

## ShenZhen Lenodell Technology Co.,Ltd

Add: 5th Floor, Building B, Wentao Industrial Park, Yongxin Street,  
Yingrenshi Community, Shiyao Street, Baoan District, Shenzhen

### 2, antenna specification

#### Bluetooth mechanical specification

##### 2400-2500MHZ

Electrical specifications	
Frequency range (MHz)	2400-2500
Polarization	Linear
Gain (dBi)	-2.41
Impedance ( $\Omega$ )	50
Directivity	Omni-directional
VSWR	$\leq 2.0$ (Center frequency)

Mechanical specifications	
Texture of material	
Immersion tin length	
Operation Temperature ( $^{\circ}\text{C}$ )	-30~60
Humidity (%)	5~95

### 3.Gain

Frequency	E Total. dB(dB)	Efficiency( )
2400MHz	-3.86886	16.23%
2410MHz	-3.80462	17.25%
2420MHz	-3.58124	17.64%
2430MHz	-3.50624	18.48%
2440MHz	-3.41955	17.65%
2450MHz	-3.26336	17.72%
2460MHz	-2.9754	17.49%
2470MHz	-2.67499	17.49%
2480MHz	-2.41254	17.15%

## ShenZhen Lenodell Technology Co.,Ltd

Add: 5th Floor, Building B, Wentao Industrial Park, Yongxin Street,  
Yingrenshi Community, Shiyan Street, Baoan District, Shenzhen

---

### 4. INSERTION LOSS/RETURN LOSS/VSWR

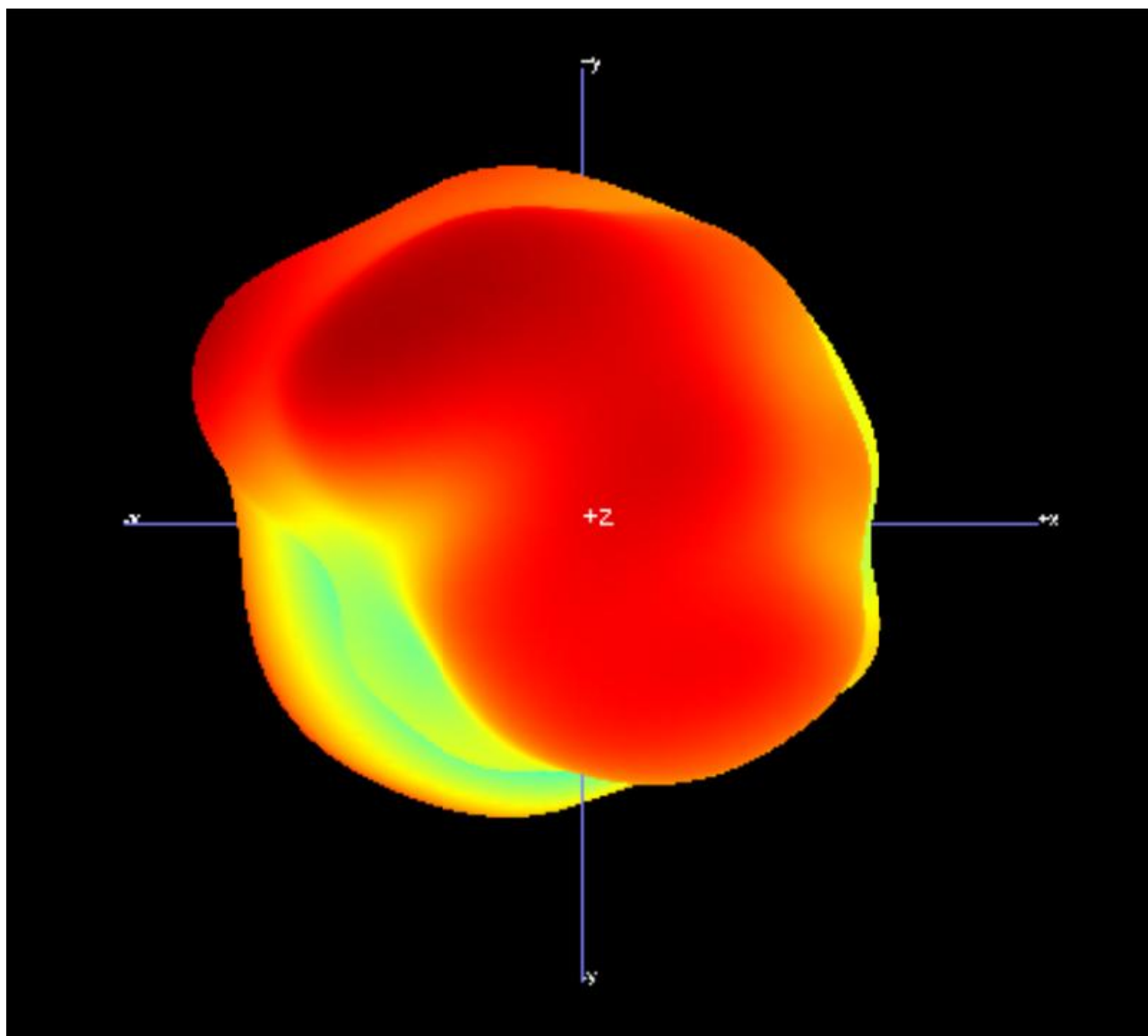
Frequency	Input impedance( $\Omega$ )	Return loss( dB)	VSWR
2400MHz	38.886	-6.354	2.512
2402MHz	37.336	-6.412	2.543
2440MHz	22.254	-6.753	2.501
2480MHz	18.320	-6.613	2.522
2500MHz	18.715	-6.702	2.518

## ShenZhen Lenodell Technology Co.,Ltd

Add: 5th Floor, Building B, Wentao Industrial Park, Yongxin Street,  
Yingrenshi Community, Shiyan Street, Baoan District, Shenzhen

---

### 5. 3D Pattern

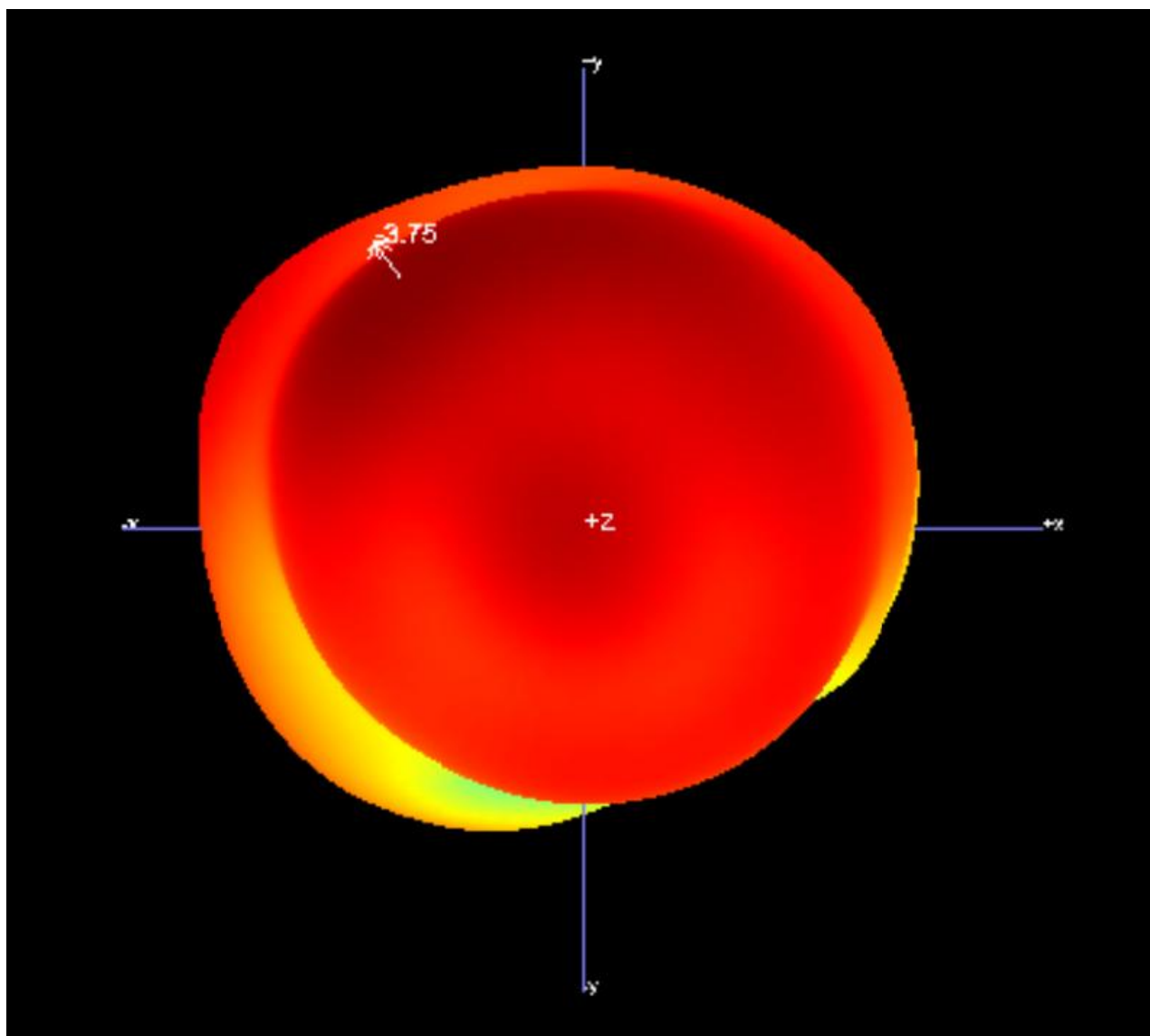


# ShenZhen Lenodell Technology Co.,Ltd

Add: 5th Floor, Building B, Wentao Industrial Park, Yongxin Street,  
Yingrenshi Community, Shiyan Street, Baoan District, Shenzhen

---

2440MHZ





# ShenZhen Lenodell Technology Co.,Ltd

Add: 5th Floor, Building B, Wentao Industrial Park, Yongxin Street,  
Yingrenshi Community, Shiyan Street, Baoan District, Shenzhen

---

2450MHZ

