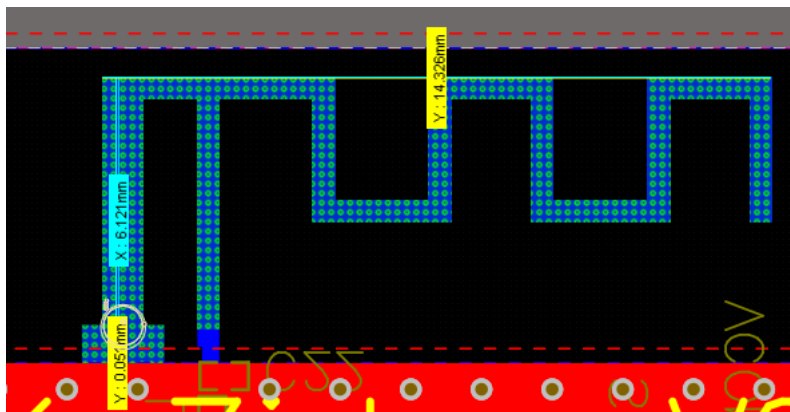


## 1. Antenna Information

Product Model	LEDS-K01, LEDS-K02, RLS-K01D, RLS-K02D
Antenna Model	ZigBee - ANT
Antenna Type	PIFA
Manufacturer	Lumi United Technology Co., Ltd Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen

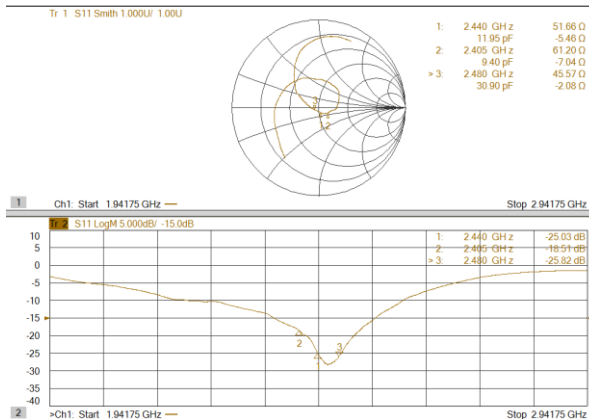
## 2. Antenna Picture



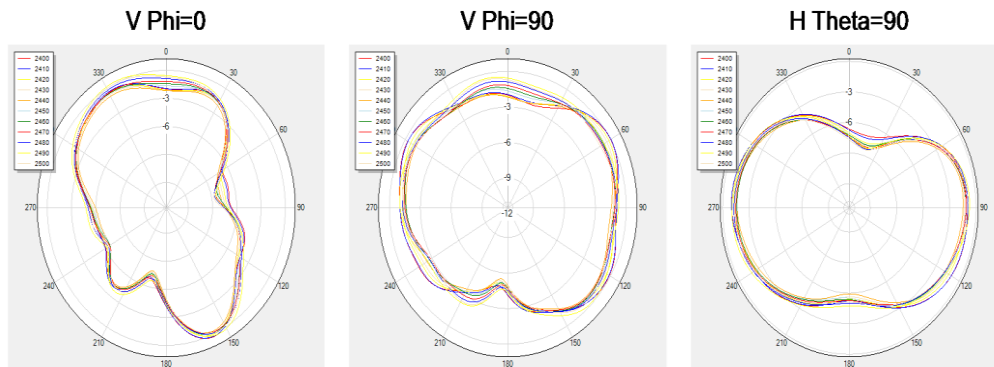
## 3. Electrical Specification

Frequency Range	2400~2500 MHz
Bandwidth	100 MHz
Input Impedence	50 $\Omega$
S11	$\leq -10$ dB
Peak Gain	0.5 dBi

## 4. Antenna S11



## 5. Radiation Pattern



## 6. Test Results

Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1	2400	-0.14	-2.58	55.23
2	2410	0.04	-2.51	56.12
3	2420	0.24	-2.51	56.11
4	2430	0.5	-2.70	53.67
5	2440	0.06	-3.08	49.26
6	2450	-0.01	-3.21	47.73
7	2460	-0.06	-3.33	46.50
8	2470	-0.13	-3.54	44.28
9	2480	0.09	-3.52	44.49
10	2490	0.24	-3.62	43.43
11	2500	-0.1	-4.07	39.20