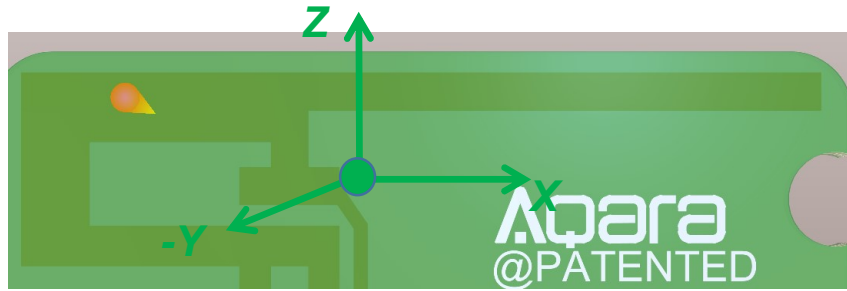


1、 Antenna Information



Zigbee antenna

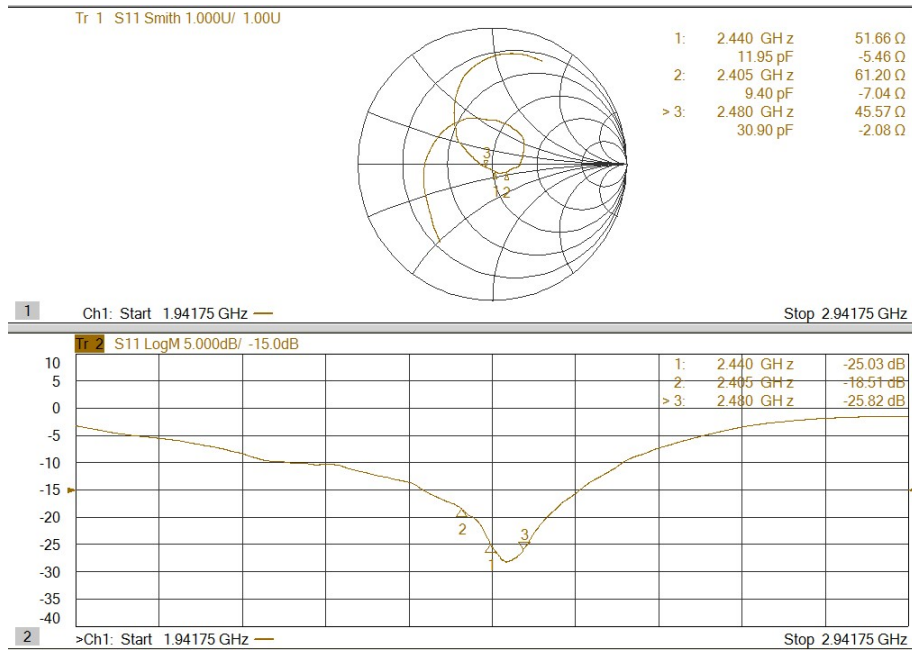
Product Model	FP1A
Antenna Model	FP1A-Zigbee
Antenna Type	PIFA
Manufacturer	Shenzhen Lumi United Technology Co., Ltd CO.;LTD

Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

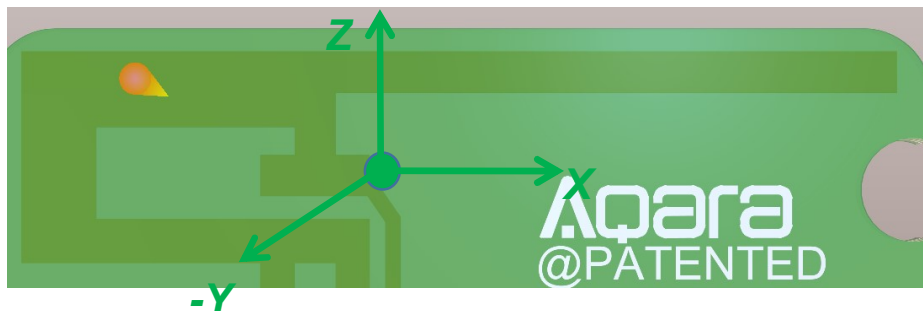
2、 Electrical Specifications

Frequency Range	2400~2500MHz
Bandwidth	100 MHz
Input Impedence	50Ω
S11	≤ -10 dB
Gain	Peak Gain 2 dBi

3、 Antenna S11



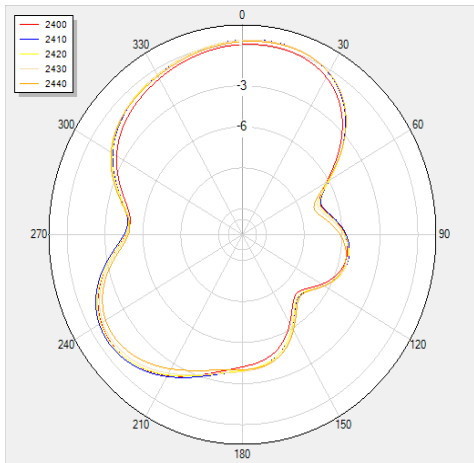
4、 Plane Definition Radiation



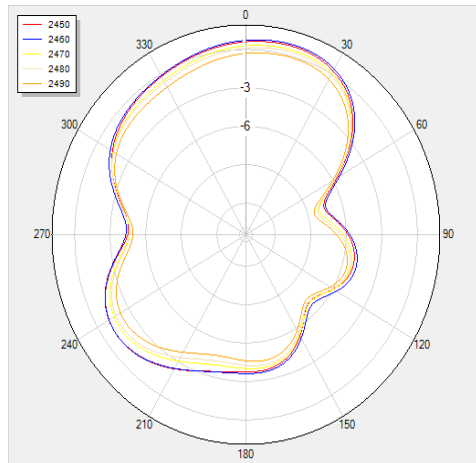
XY Plane	Theta=90°
XZ Plane	Phi=0°
YZ Plane	Phi=90

5、 Pattern

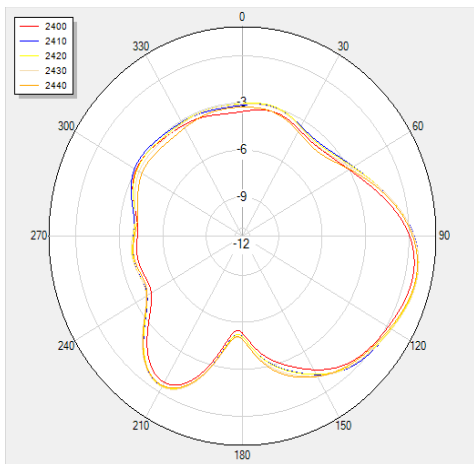
H Theta=90



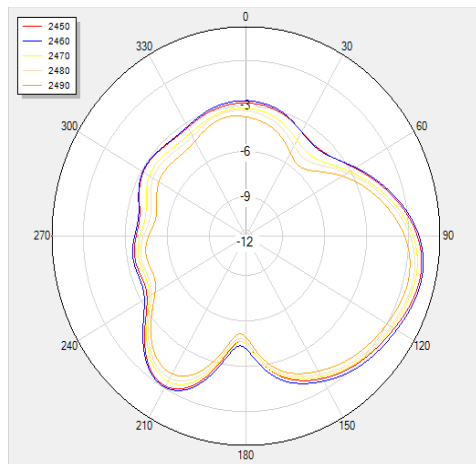
H Theta=90



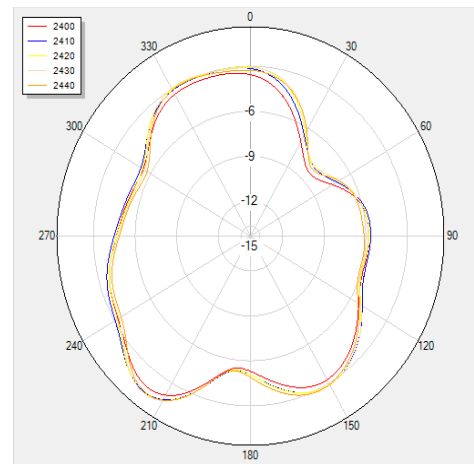
V Phi=0



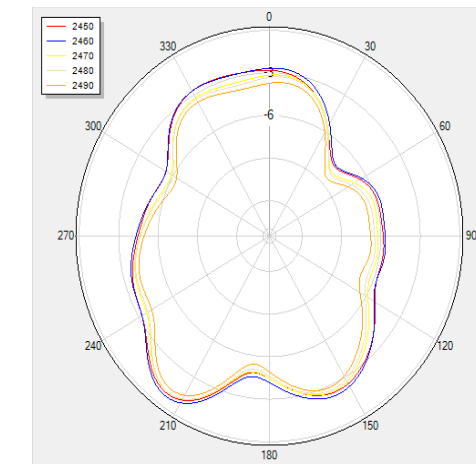
V Phi=0



V Phi=90



V Phi=90



6. Test Results

Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1	2400	1.2	-3.58	43.84
2	2410	1.1	-3.69	42.8
3	2420	1.5	-3.95	40.26
4	2430	0.8	-3.53	44.36
5	2440	0.9	-3.87	41
6	2450	2.0	-3.82	41.51
7	2460	1.6	-3.78	41.9
8	2470	1.3	-3.79	41.78
9	2480	1.2	-3.47	45
10	2490	1.7	-3.87	41.02
11	2500	1.5	-3.71	42.53