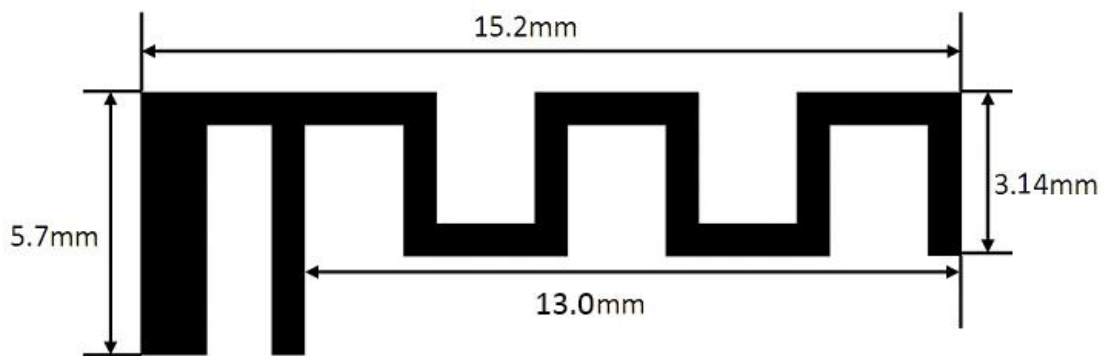


## Antenna Specification

Product : PCB ANT  
Model Name : 20248BHS03  
Manufacture : Shenzhen Hasware Technology Development Co.,Ltd  
Test Item : Antenna gain; Radiation pattern and efficiency  
Antenna Type : PCB Antenna  
Frequency Range : 2400MHz-2500MHz

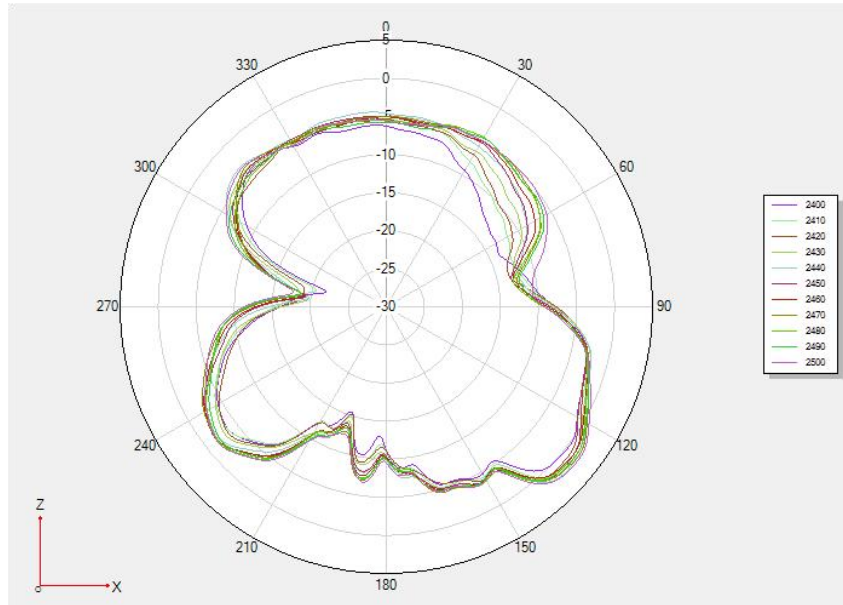


## Test Data

Frequency/MHz	Efficiency / dB	Efficiency / %	Max Gain/dBi	Avg Gain/dBi
2400	-3.84	41.30	3.25	-3.84
2410	-3.24	47.42	4.03	-3.24
2420	-3.13	48.64	4.30	-3.13
2430	-2.75	53.09	4.44	-2.75
2440	-2.33	58.48	4.54	-2.33
2450	-2.39	57.68	4.26	-2.39
2460	-2.43	57.15	4.21	-2.43
2470	-2.21	60.12	4.32	-2.21
2480	-2.19	60.39	4.12	-2.19
2490	-2.25	59.57	3.79	-2.25
2500	-2.10	61.66	3.74	-2.10

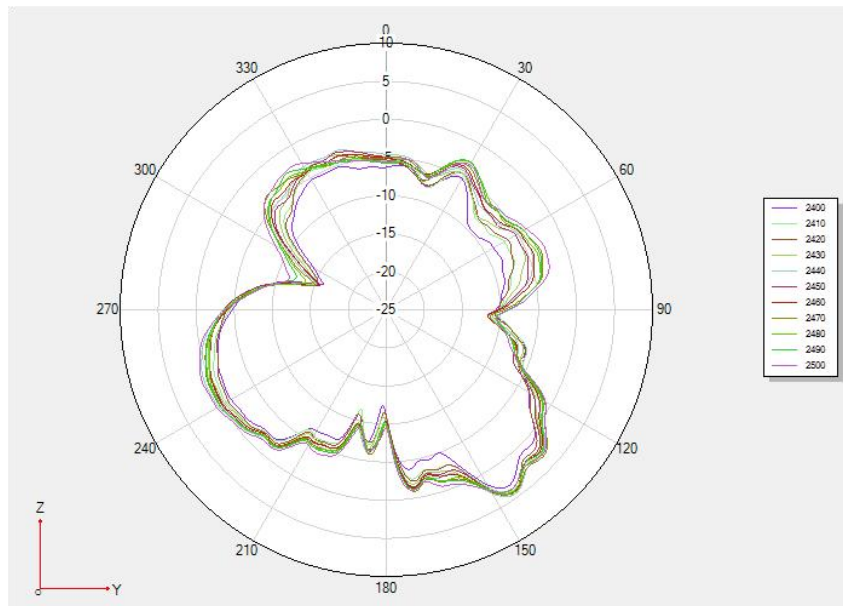
(1) X-Z Plane:

V Phi=0



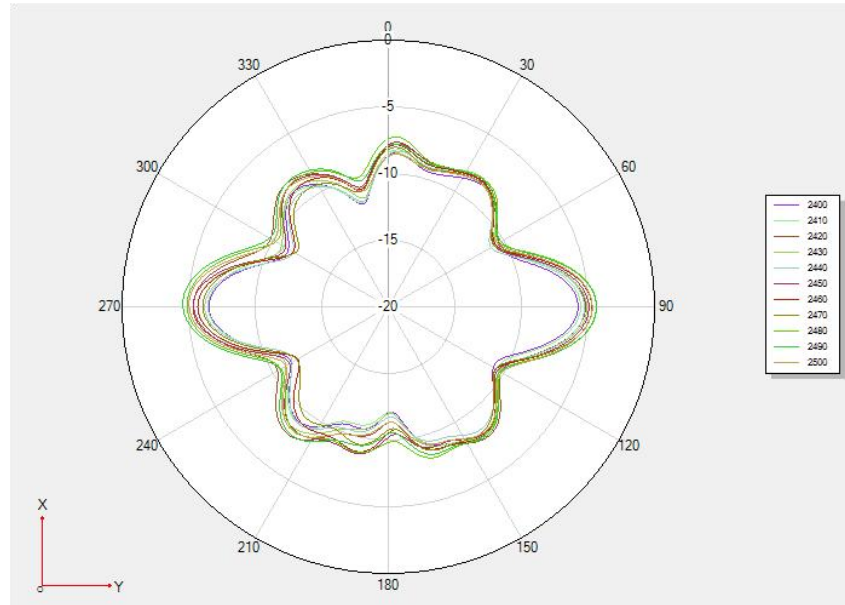
(2) Y-Z Plane:

V Phi=90

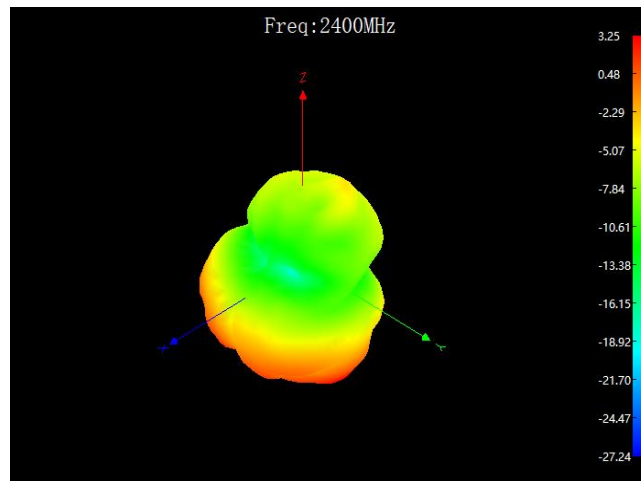


(3) X-Y Plane:

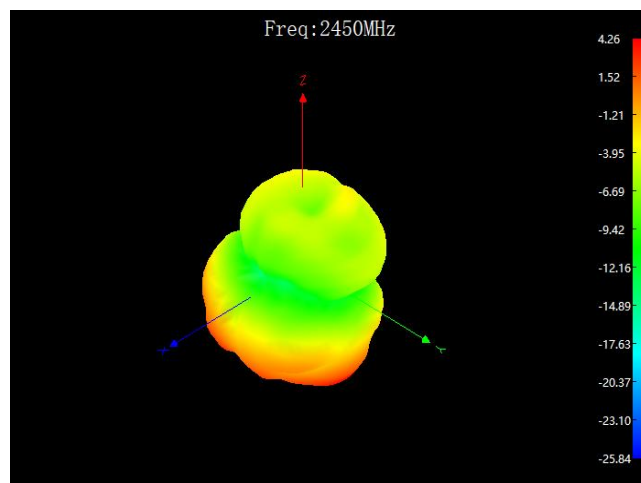
H Theta=90



3D Pattern for 2400MHz



3D Pattern for 2450MHz



### 3D Pattern for 2500MHz

