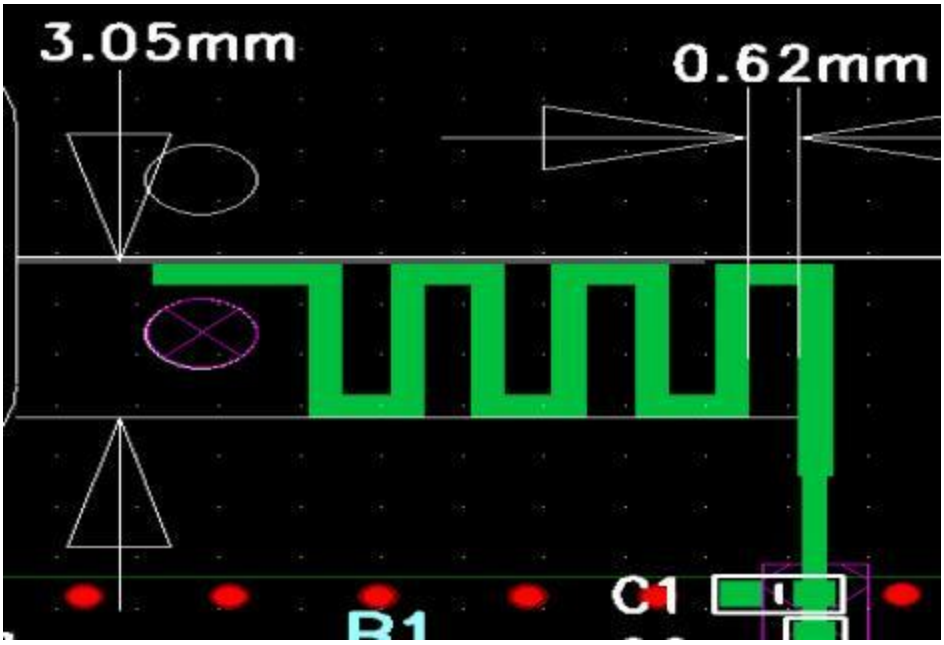
1.Electrical Characteristics

Item	Specification
Model	507-A
Manufacturer	Shenzhen Tai Yilinan Science & Technology Co.,Ltd
Type	PCB Meander Line Antenna
Central frequency	2.441GHz
Bandwidth	78 MHz (Typical value)
Gain	1.81 dBi
Polarization	Linear
VSWR	2 max.
Azimuth Bandwith	Omni-directional
Impedance	50Ω
Rated Power (max)	4dBm
Maximum Input Power	10dBm
Operation Temperature	-40 C ~ +85 C

2.The suggestion of matching circuit



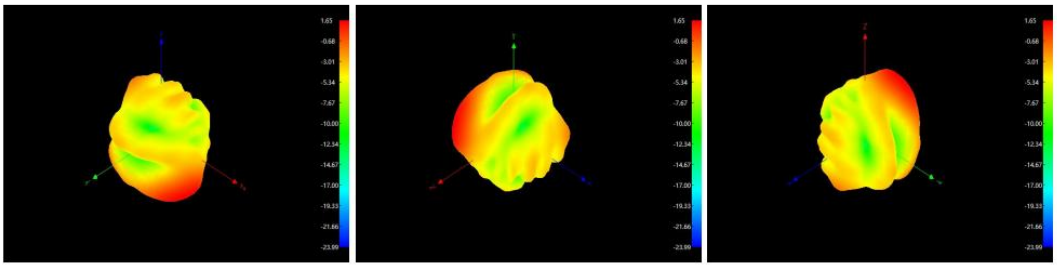
3. The Measurement of S-Parameter and VS

Passive Test For BT Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	53.6	-2.7	1.78
2410	54.1	-2.7	1.75
2420	54.6	-2.6	1.69
2430	56.2	-2.5	1.7
2440	57.4	-2.4	1.72
2450	57.7	-2.4	1.81
2460	57.2	-2.4	1.81
2470	57.7	-2.4	1.3
2480	56.9	-2.5	1.4

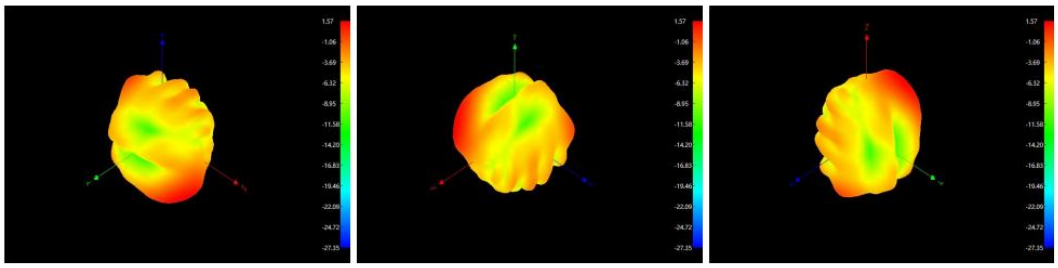
M1: 2399.999999MHz S 1.316 ΔS 0.122 Δλ 3.7500 m
M2: 2480.000000MHz S 1.195 ΔF 80.000001MHz 步进 1.111MHz
10
5.0
3.0
2.0
1.5
1.2
1.0
1
2
电压驻波比幅度 1.00 中心 2440.000000 扫宽 500.000000 用户校准
中心=光标
最大值
最小值
光标切换
退出

M1: 2386.666666 MHz
R 36.18 ΩX 2.828 Ω
|Z| 36.29 ΩQ 0.078
Ls 188.6 pH
Γ 0.164 ∠ 166.56°
M2: 2480.000000 MHz
R 53.21 ΩX 8.632 Ω
|Z| 53.90 ΩQ 0.162
Ls 554.0 pH
Γ 0.089 ∠ 64.83°
ΔF 93.333334 MHz
中心 2440.000000 MHz
扫宽 500.000000 MHz
步进 1.111MHz 用户校准
圆图
曲线保持
阻抗/导纳
显示模式
重新校准
校准选择

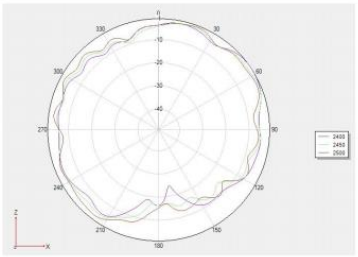
3D 2450：



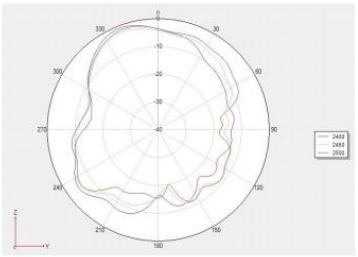
3D 2500：



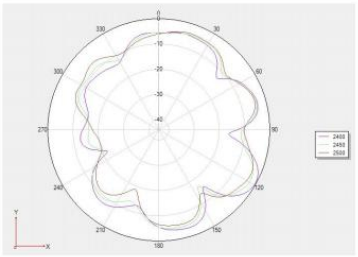
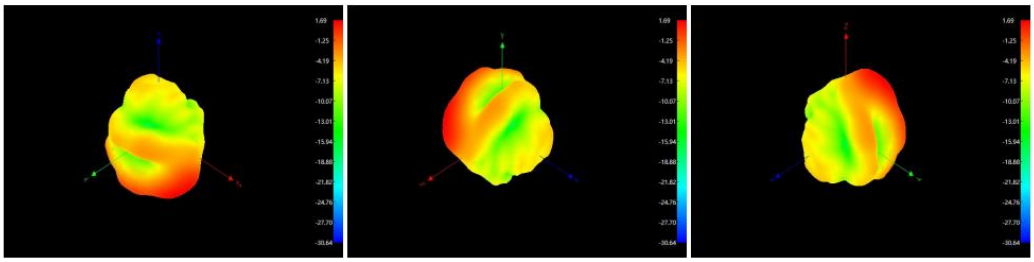
Phi 0 2D 图:



Phi 90 2D 图



Theta 90 2D 图



3D 2400：