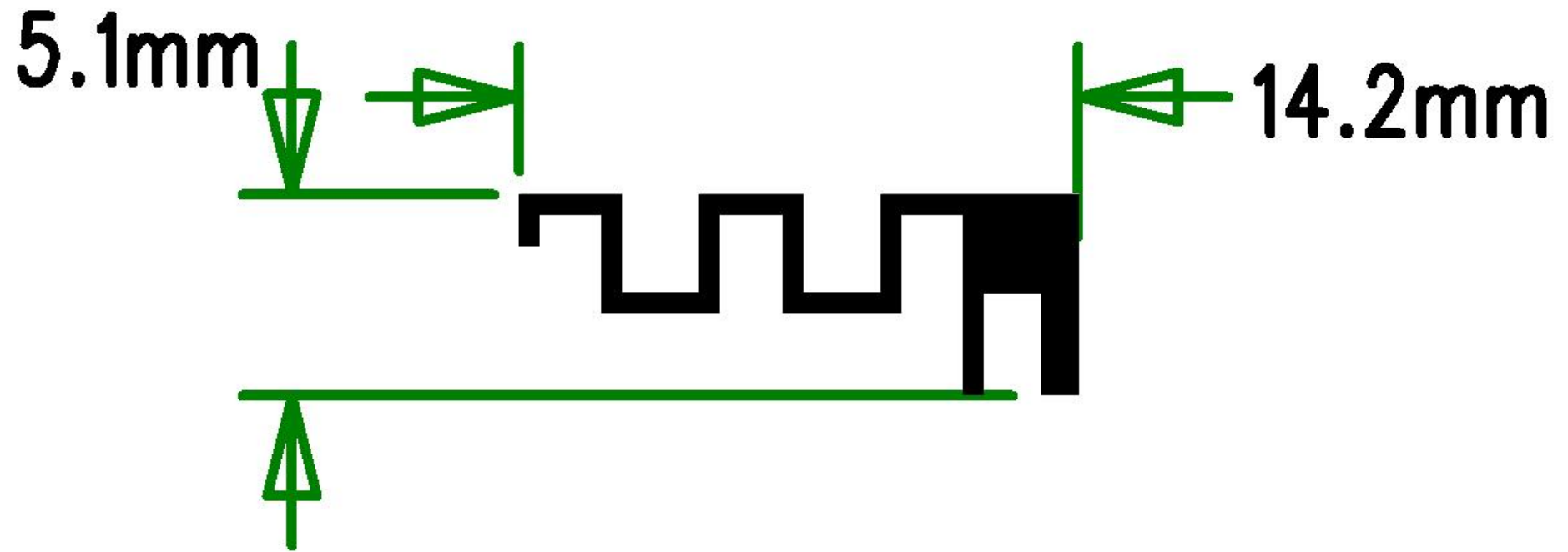


PCB Antenna spec

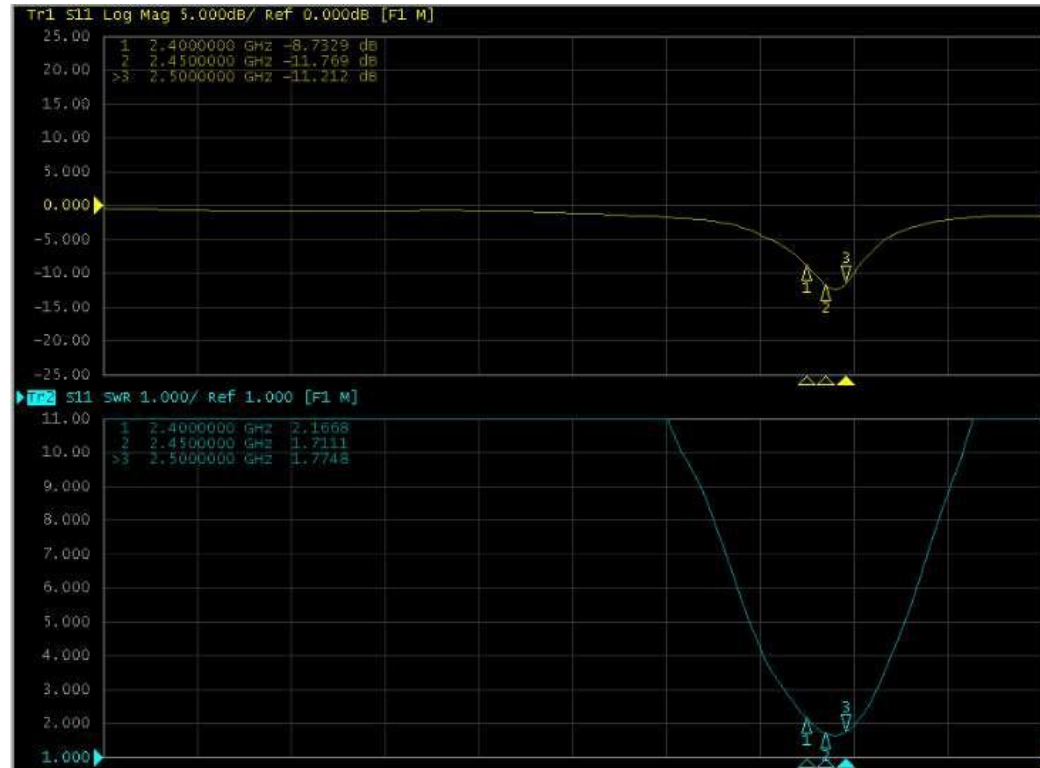
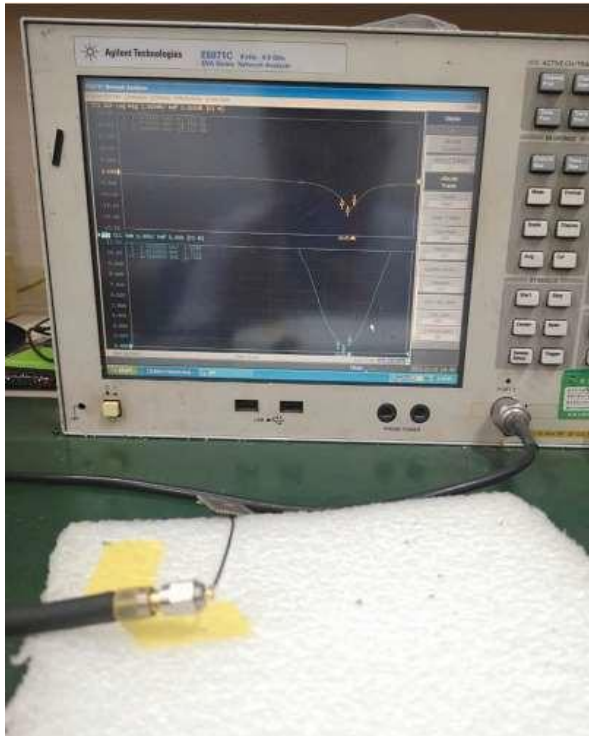
Model Number: X3 PCB Antenna

Manufacturer:	ShenZhen TFIRETEK Technology
Address:	Floor 2, Building A, Queshan Guanghao Industrial Park, Taoyuan Community, Dalang Street, Longhua District, Shenzhen
PRODUCT NAME:	Antenna
Model:	X3
Antenna type:	PCB Antenna

Antenna dimension

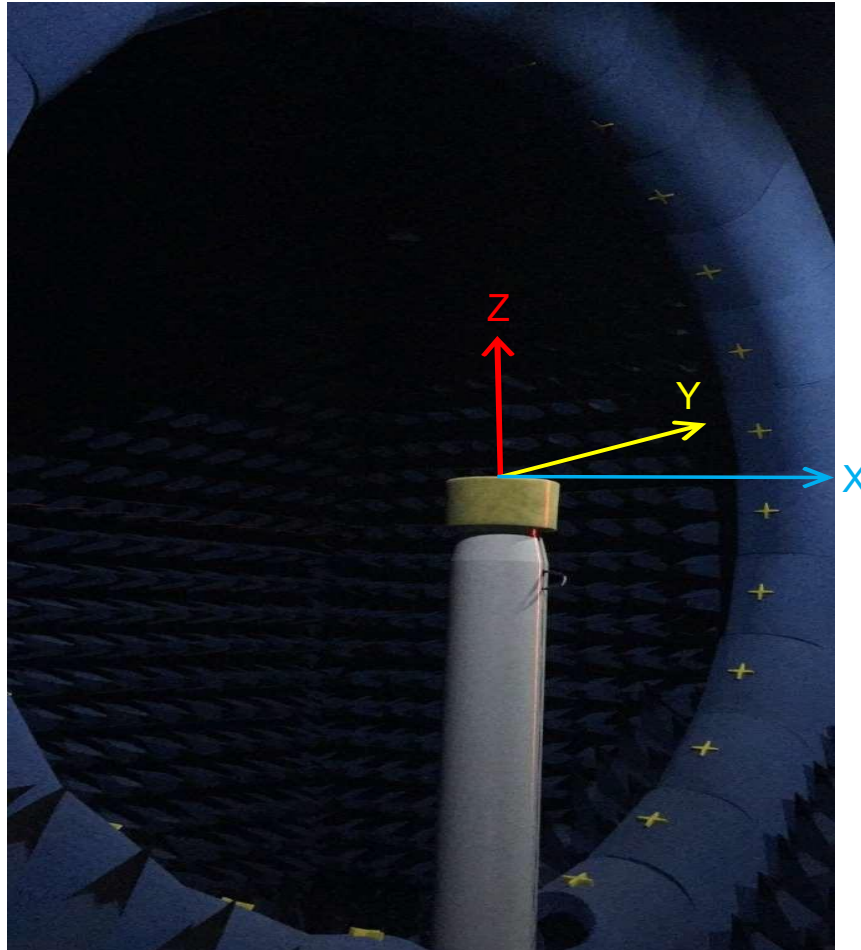


Measurement data



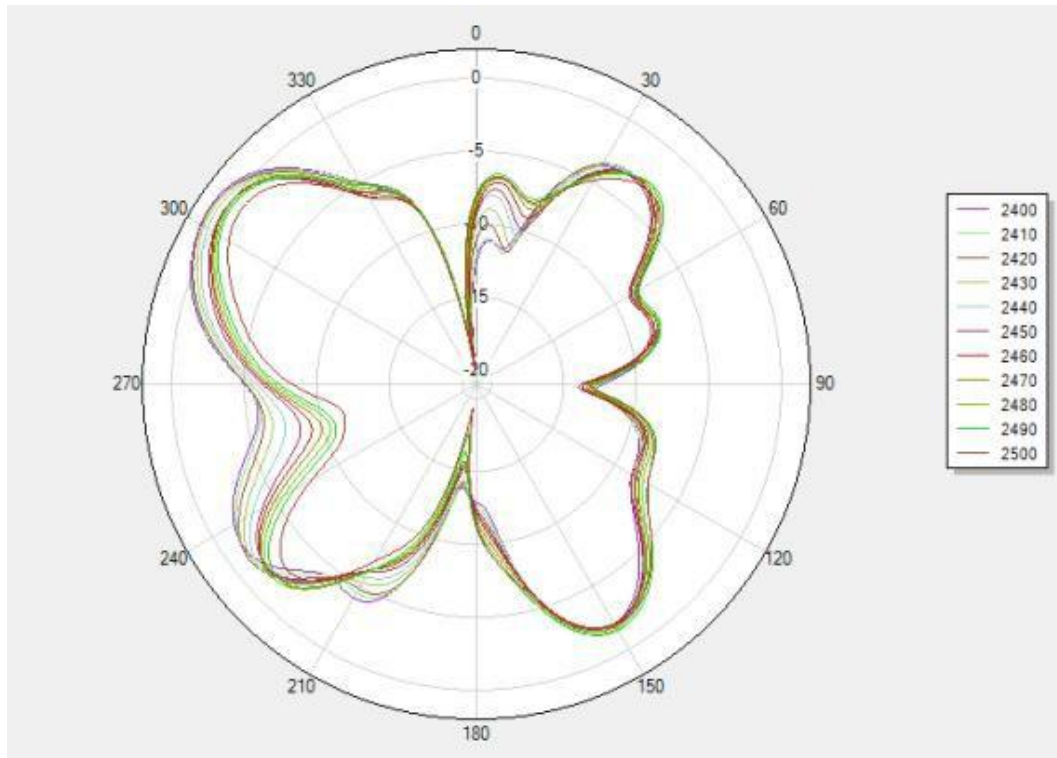
Frequency (MHz)	2400	2450	2500
Return Loss	-8.73	-11.76	-11.21
VSWR	2.16	1.71	1.77

Radiation pattern

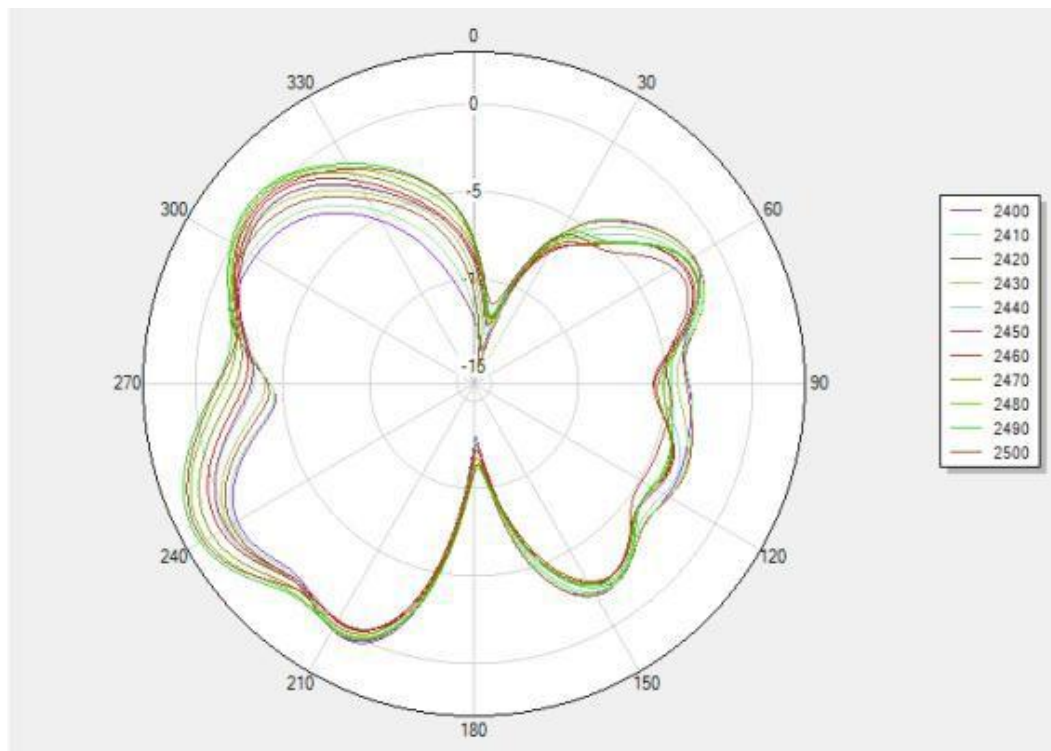


Radiation Pattern

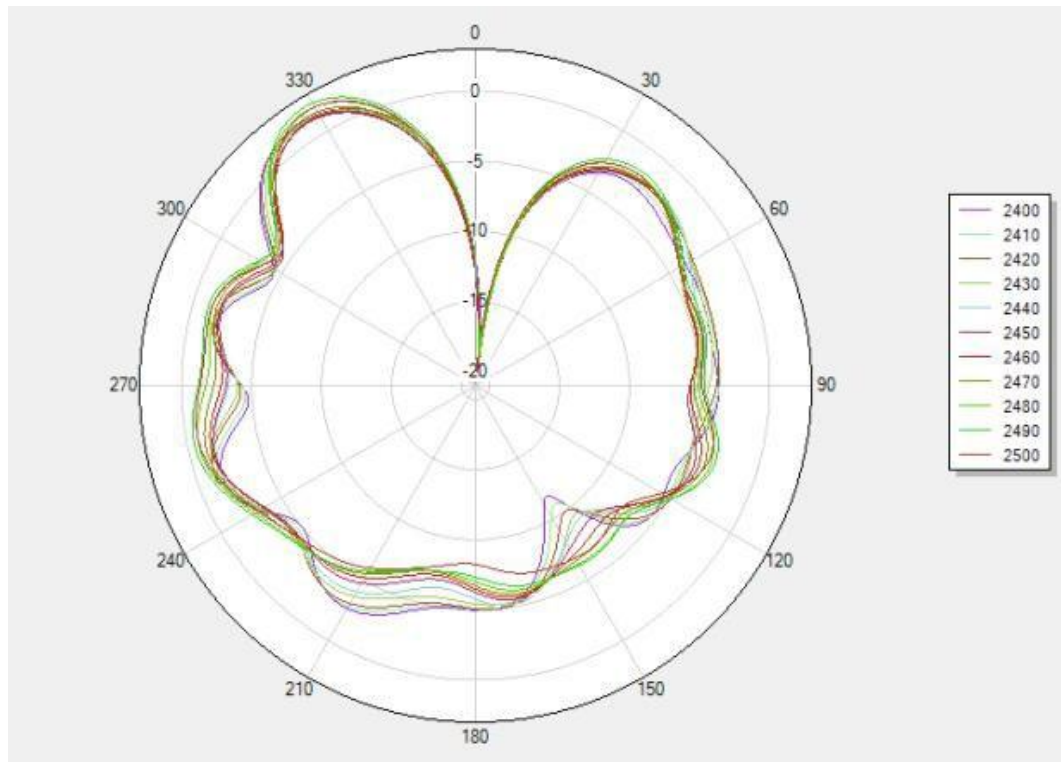
Phi 0 2D



Phi 90 2D

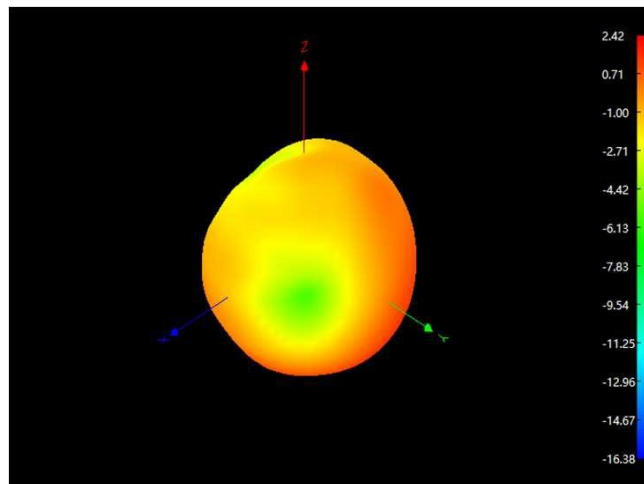
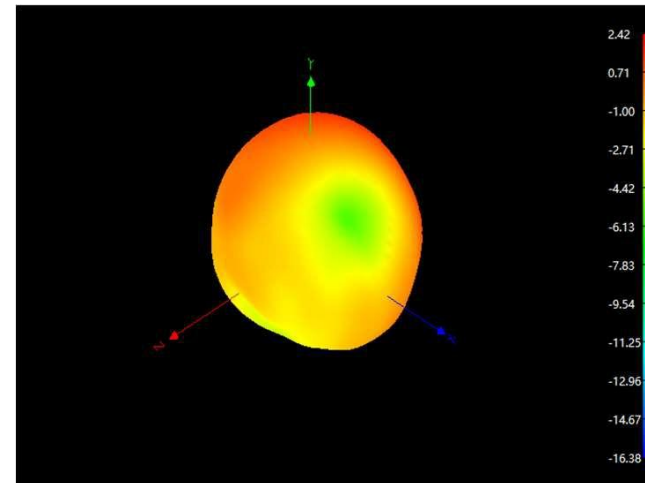
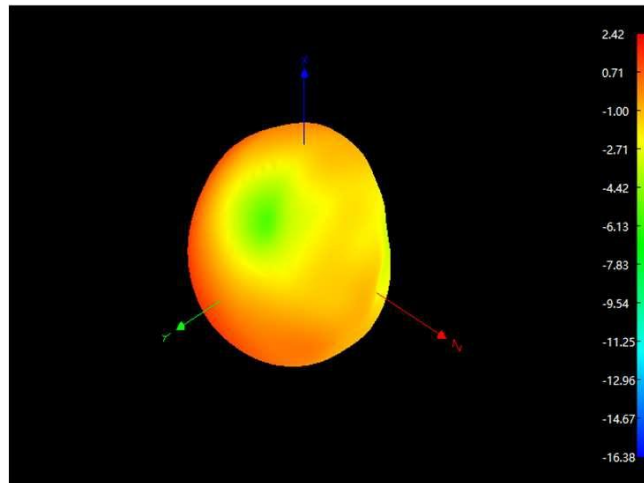


Theta 90 2D



2480MHz 3D

3D



Efficiency&Gain

Freq. (MHz)	Effi (%)	Gain (dBi)
2400	52.29	1.62
2410	52.17	1.71
2420	53.14	1.93
2430	54.16	1.98
2440	57.62	2.00
2450	59.64	2.17
2460	61.55	2.45
2470	60.64	2.38
2480	62.86	2.54
2490	59.85	2.30
2500	60.41	2.49