

Test Reports

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Customer Name	Loostone
Test band	650--680M 2.4G
Test category:	Free space coupling test
Testers	DX
Test time	2022.10.25
Test Environment	Jensencom SATIMO SG64 Darkroom
Report Version	T: A

Antenna Type: PCB Antenna

1 Test environment:

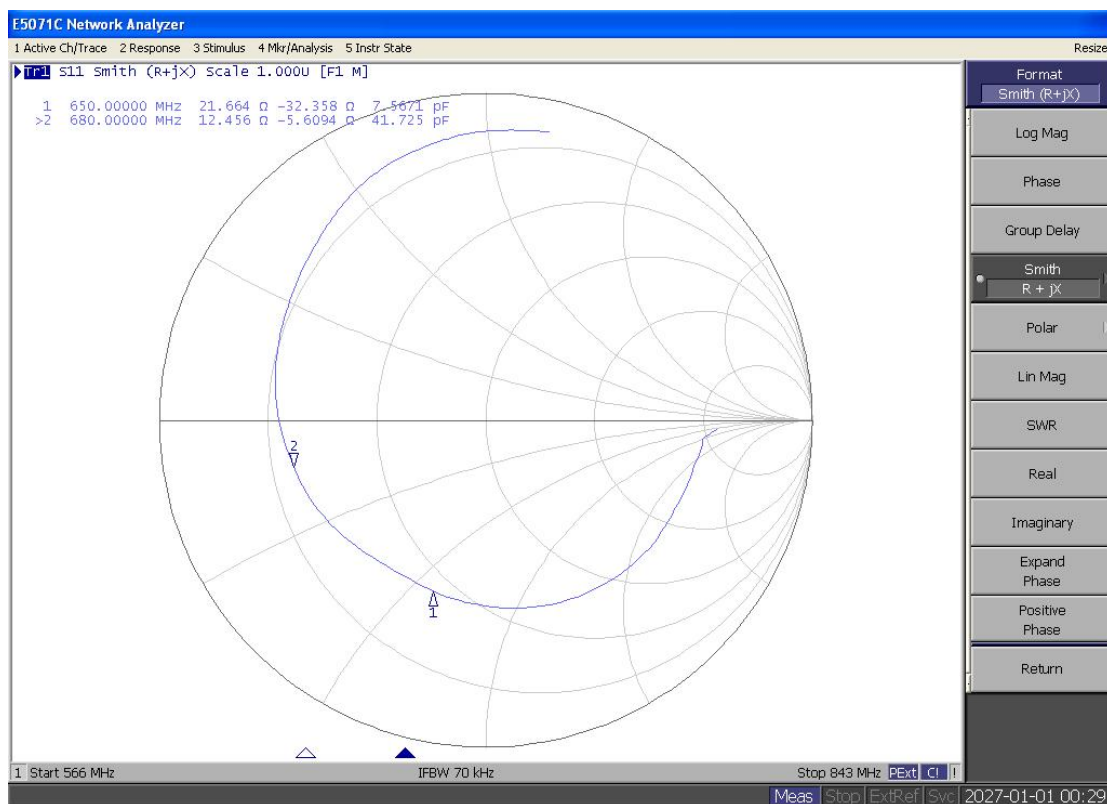


2 X2 U-band Antenna Antenna type: U-band onboard antenna

(1) Return loss



(2) Smith

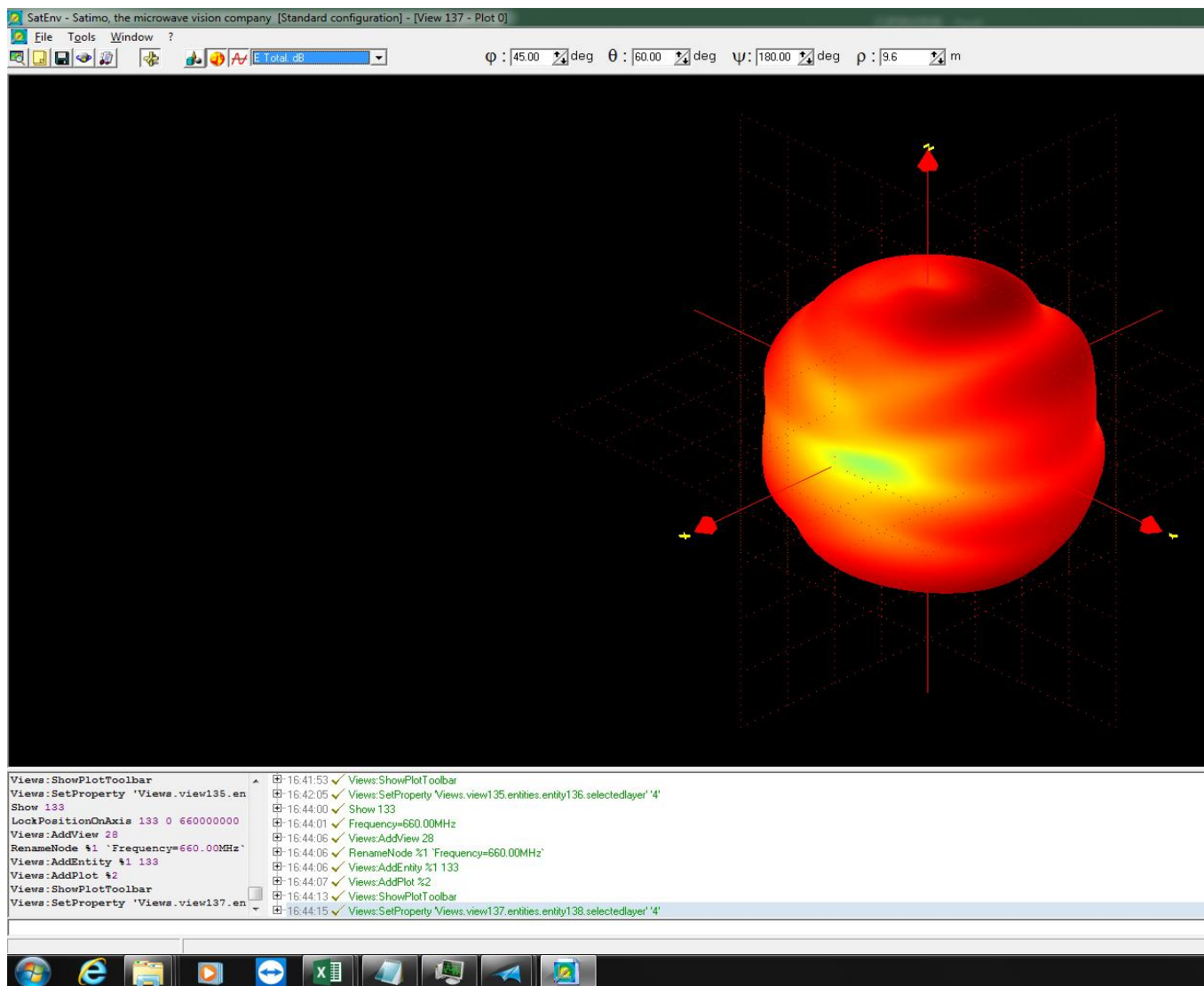


(3) VSWR

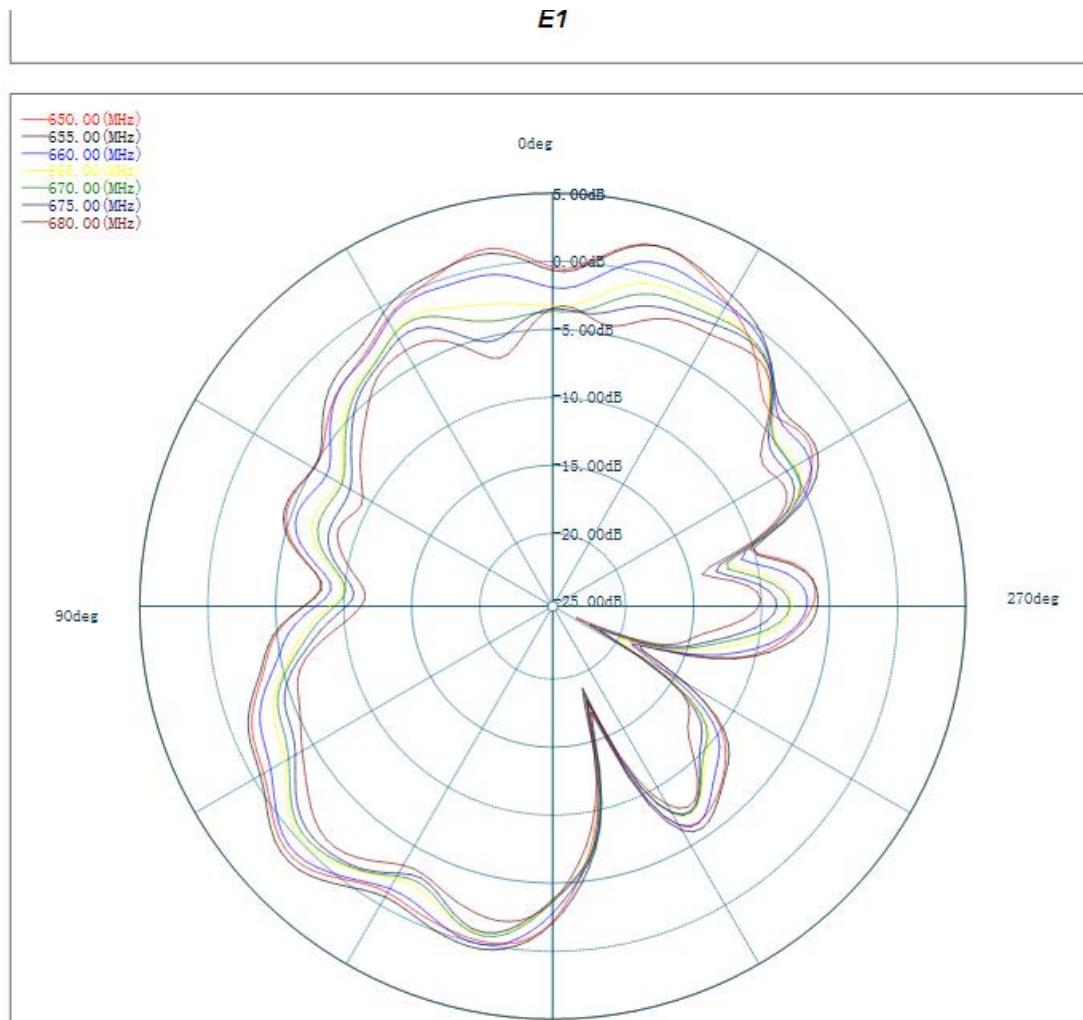


3 Passive test efficiency (dBi)

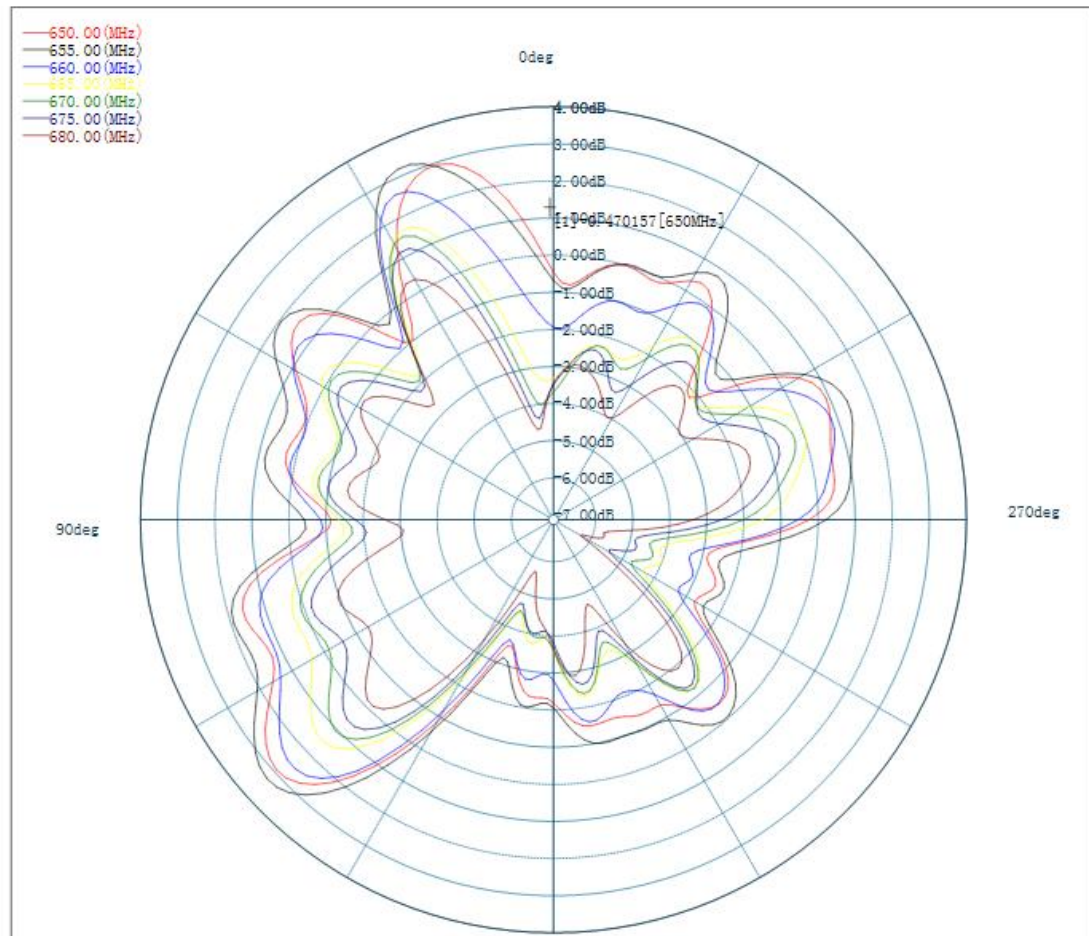
Frequency(Hz)	Efficiency	Gain(dBi)
650000000	18%	1.1392557
655000000	16%	0.763251798
660000000	13%	0.847154487
665000000	12%	0.763106128
670000000	11%	0.757874188
675000000	13%	1.3793487
680000000	10%	0.644219338



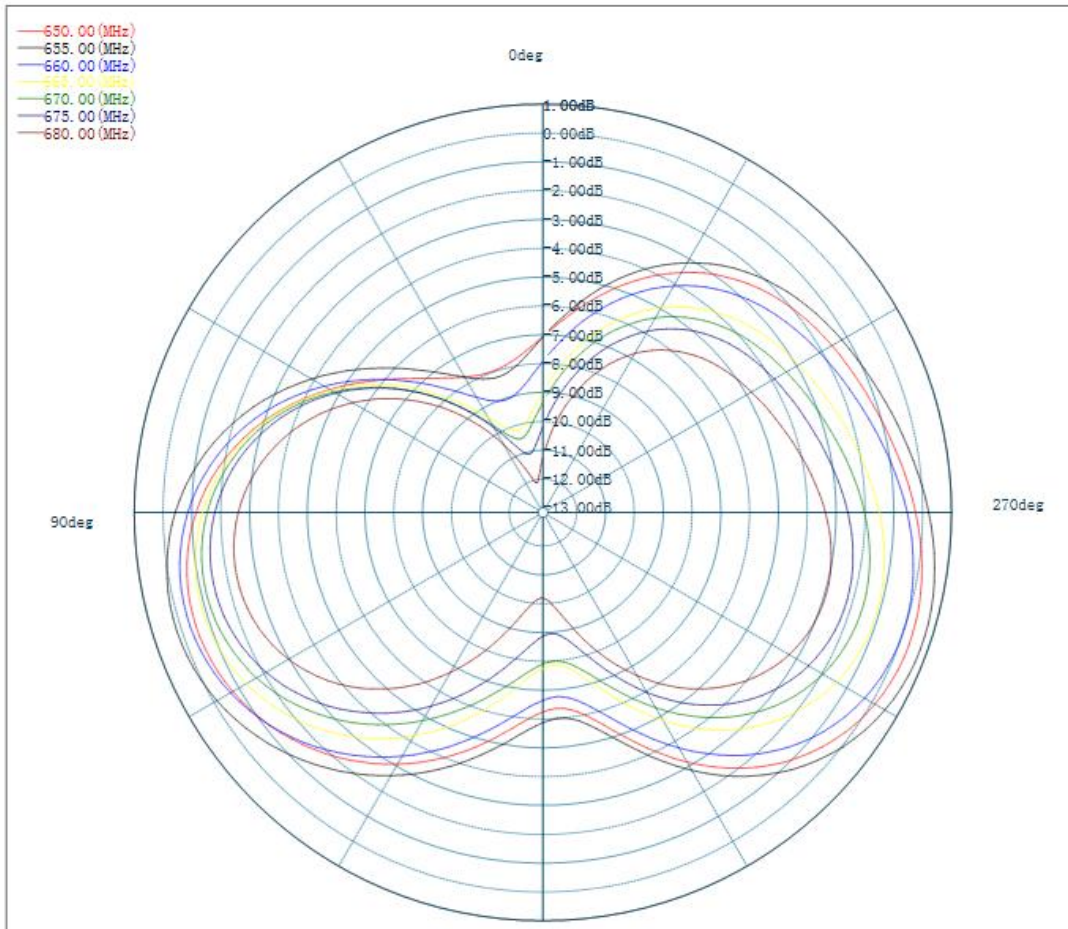
4 Antenna orientation diagram



E2



H

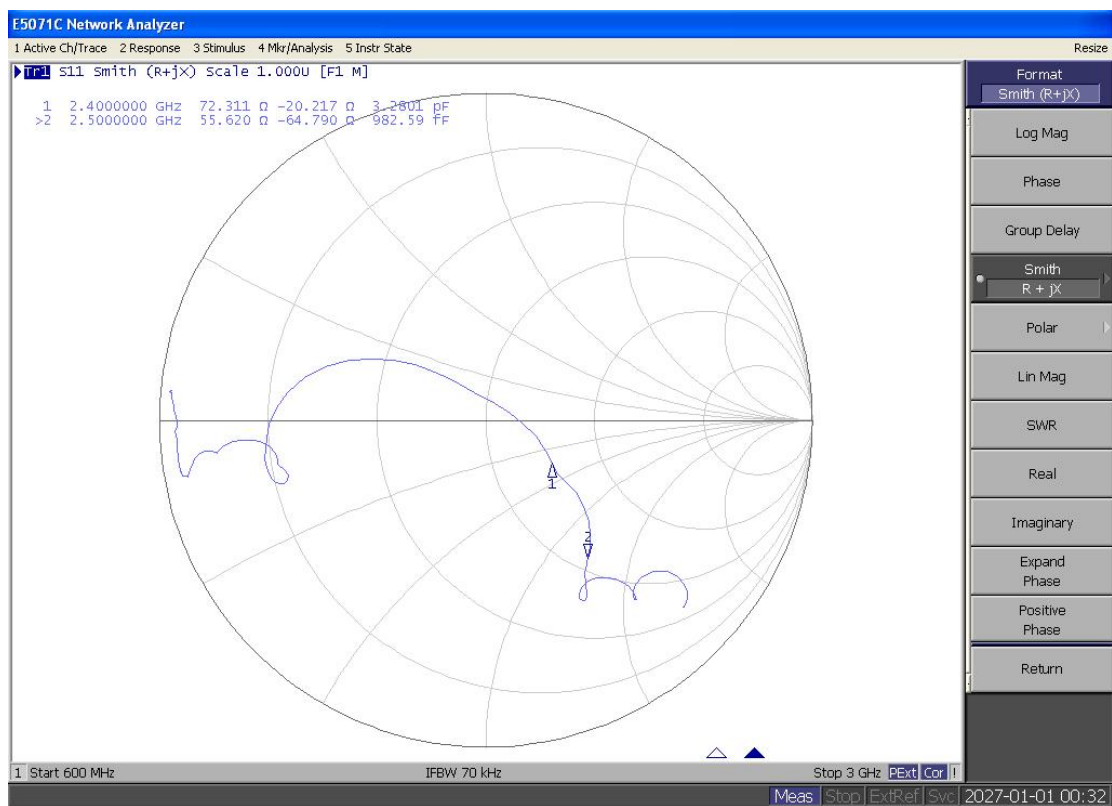


5 X2 2.4G Antenna Antenna type: 2.4g on-board antenna

(1) Return loss



(2) Smith



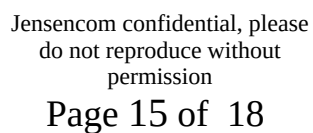
(3) VSWR



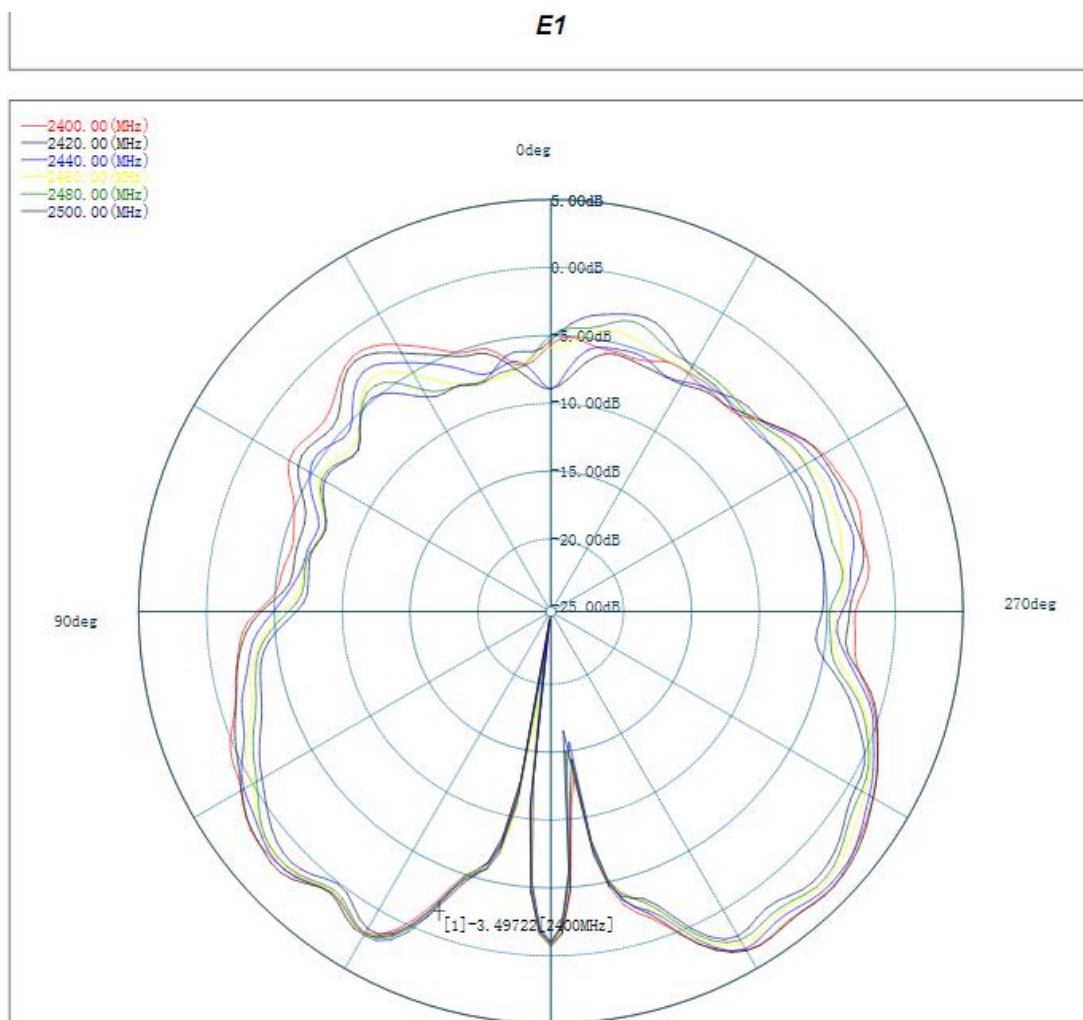
6 Passive test efficiency (dBi)

Frequency (Hz) Efficiency Gain(dBi)

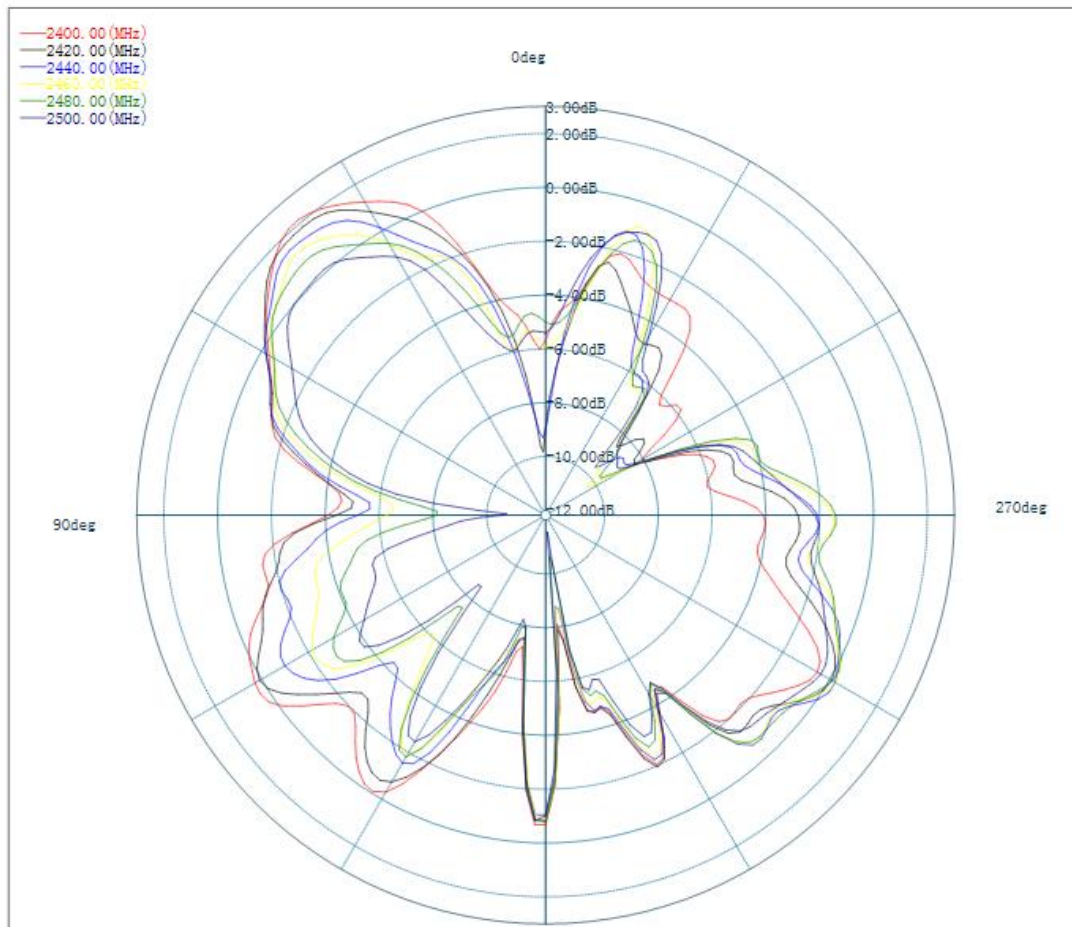
2400000000	66%	3.848498328
2420000000	66%	3.828122965
2440000000	62%	3.669011989
2460000000	57%	3.260874518
2480000000	54%	3.059747901
2500000000	48%	2.627594432



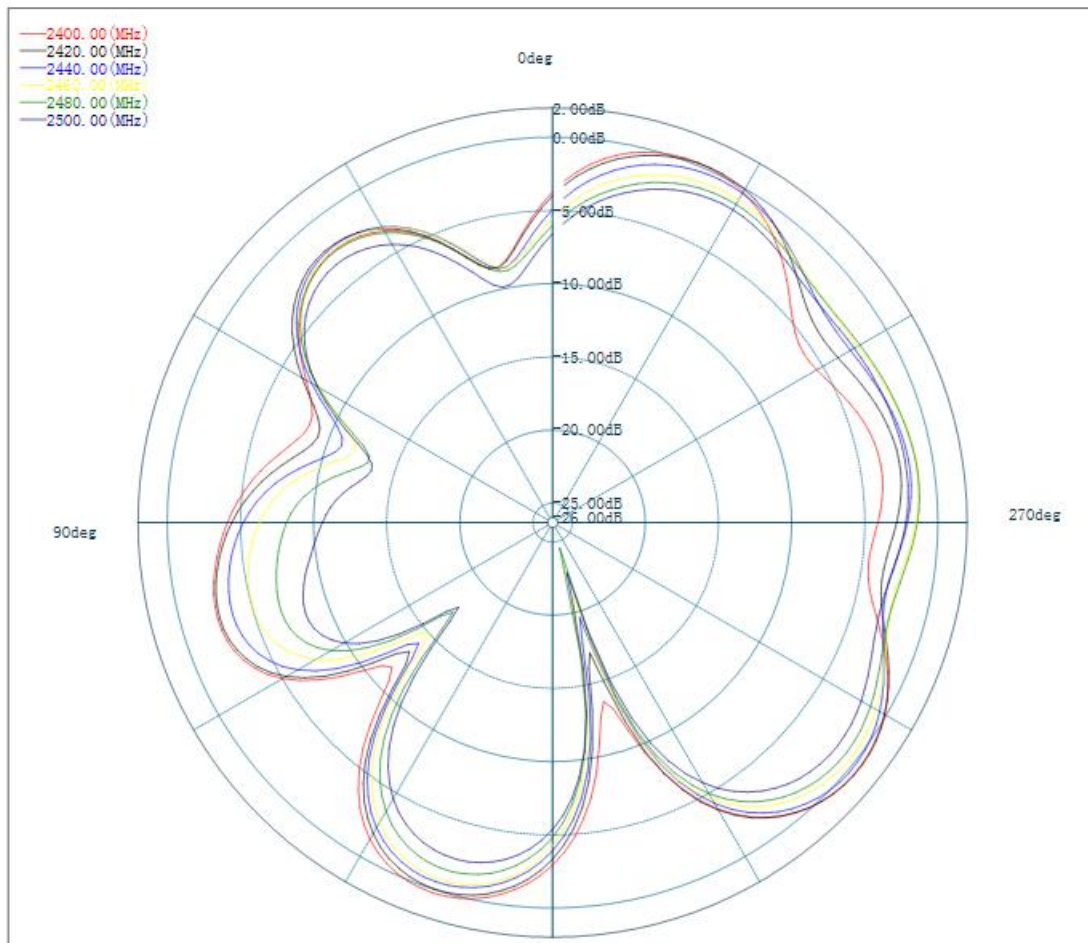
7 Antenna orientation diagram



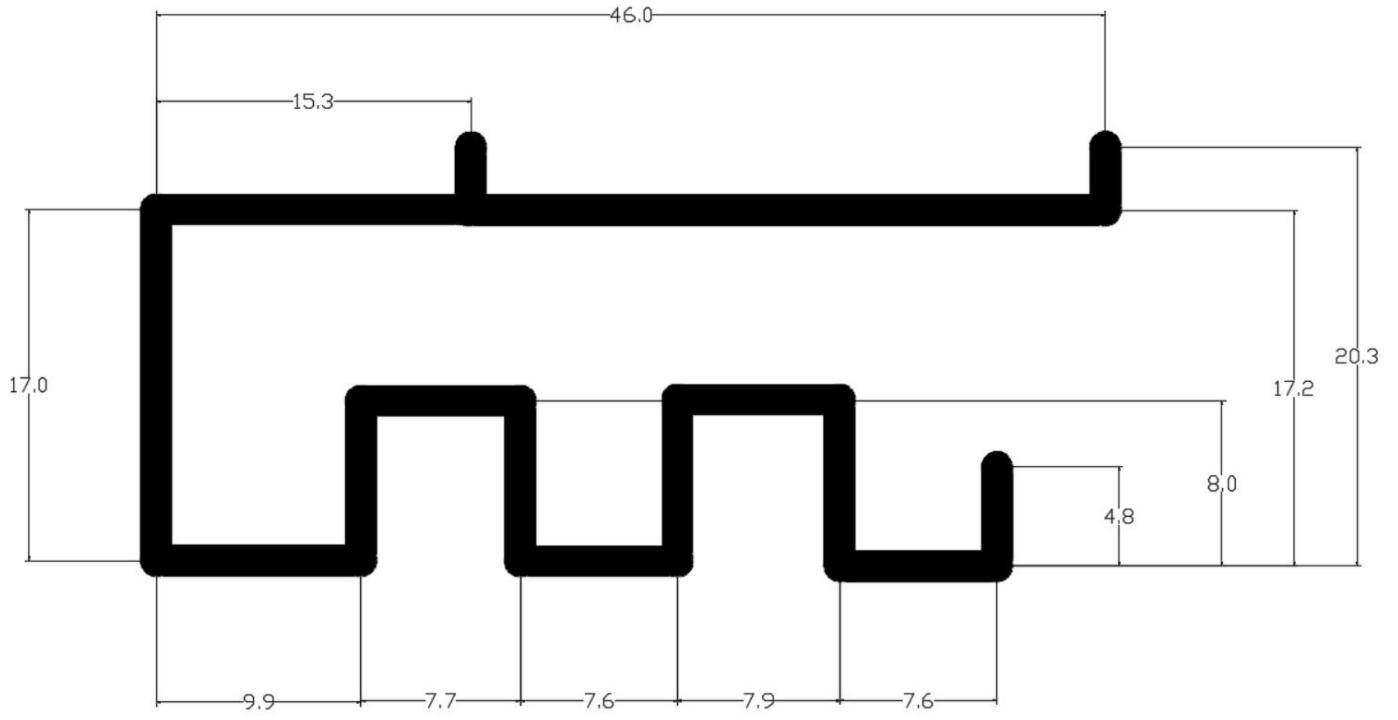
E2



H



X2 U-band ANT



X2 2.4G ANT

