

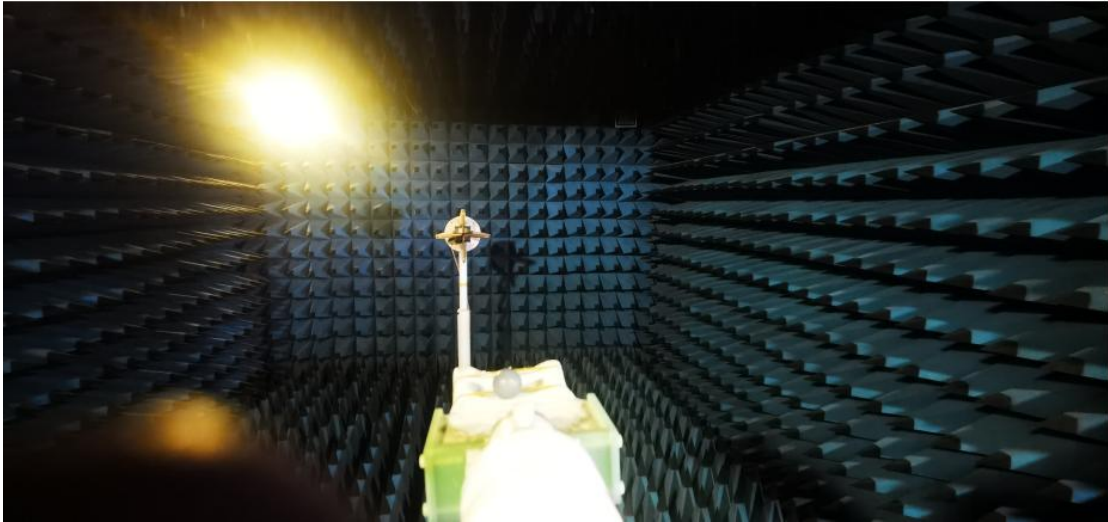
ANTENNA TEST REPORT

Product Name	FT307
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Summary

ITEM	SPEC.
Model Name	BT 2.4 GHz
MAX. GAIN	-0.25dBi
Polarization	Horizontal
Impedance	50 Ω
Antenna Type	PCB antenna
Manufacturer	Shenzhen Loyal Electronics Co.,Ltd
Manufacturer Address	Building 5, the Third Road, Shapu Yangchong Industry Park, Songgang Street, Bao'an District, Shenzhen

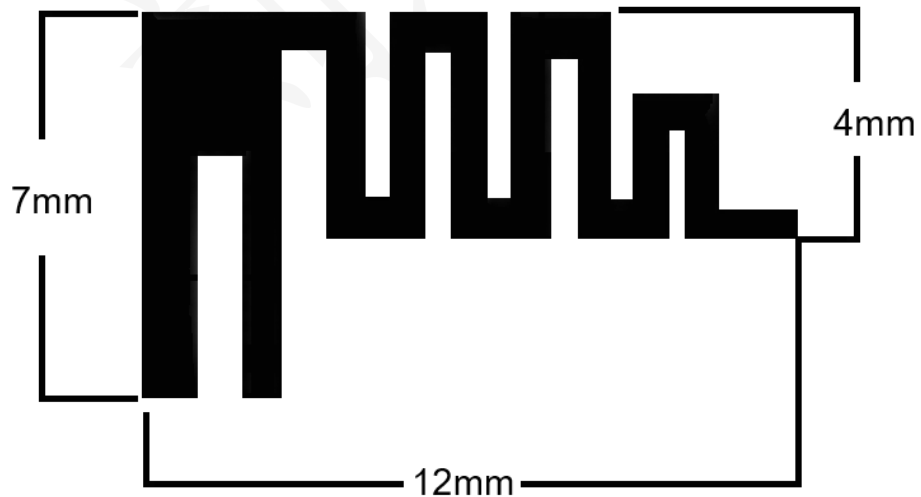
Laboratory Testing Environment and Equipment





Test Items	Test Equipment
S11、S12、VSWR、LOSS	Network AnalyzerE5071B、E5071C、E5062A
Efficiency、Gain、3DRadiation Pattern	Satimo SG16 Anechoic Chamber、GP7*4*3 Anechoic Chamber、E5071B
TRP、TIS	Satimo SG16 Anechoic Chamber、GP7*4*3 Anechoic Chamber、8960、CMW500、MT8820C、E4438C

Antenna Photo & Length (mm)



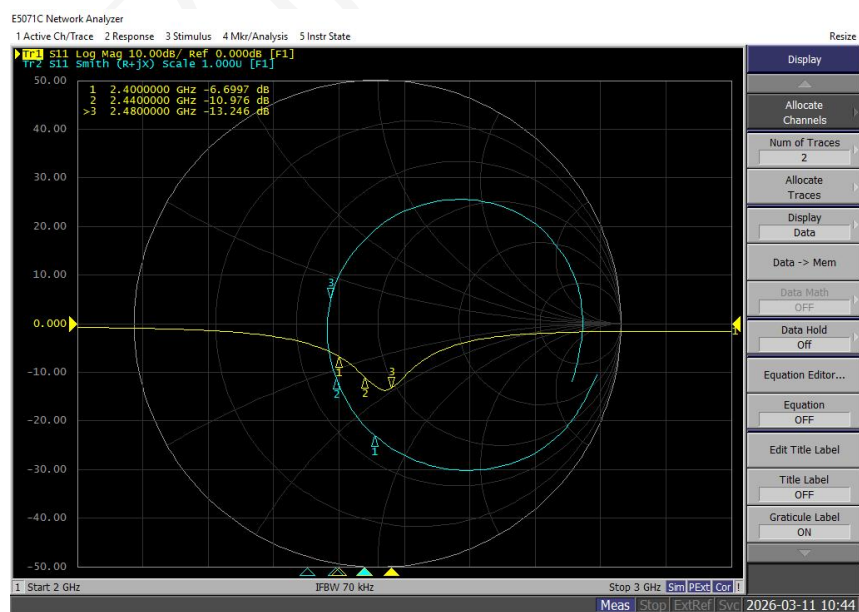
Electrical Performance Test Results

Number	Inspection Items	Unit	Performance Requirements	Test Results	
1	Frequency	MHz	2402-2483	2402-2483	
2	Gain	dBi	/	2400	-1.39
				2440	-0.56
				2480	-1.15
3	Efficient	%	/	2400	28.1
				2440	31.71
				2480	28.75
4	Returnloss	dB	≤ -10	2400	-6.69
				2440	-10.97
				2480	-13.24
5	SWR	/	≤ 2	2400	2.69
				2440	1.77
				2480	1.53

Return Loss Log Mag S11

Frequency-MHz

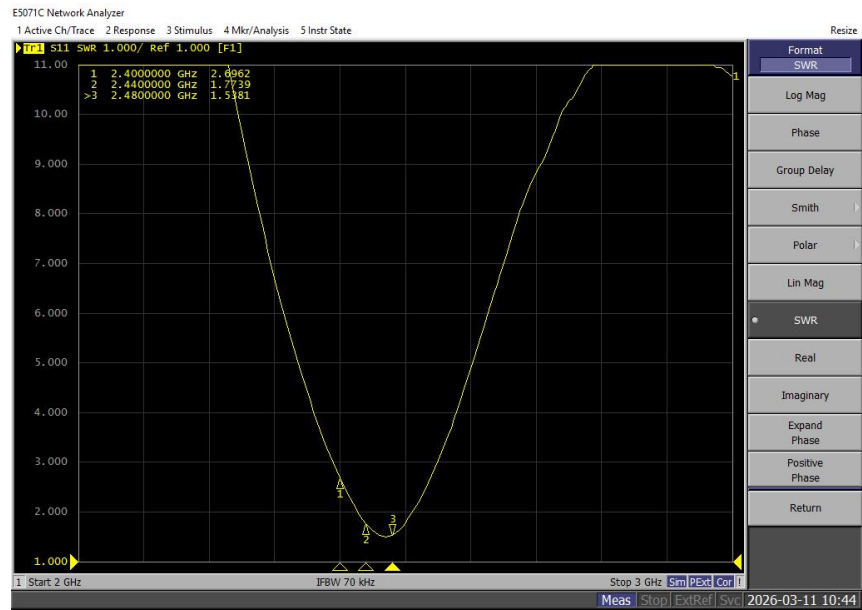
2400-2500



SWR S11

Frequency-MHz

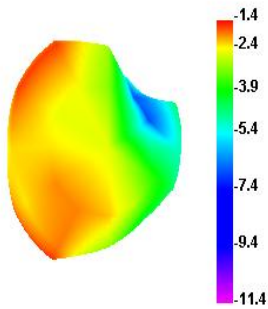
2400-2500



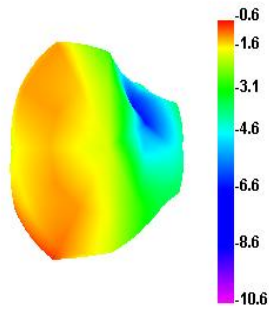
Radiation Parameter Test

Radiation Pattern (3D)

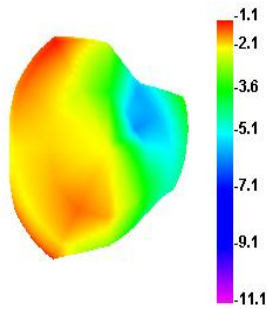
2400.000MHz



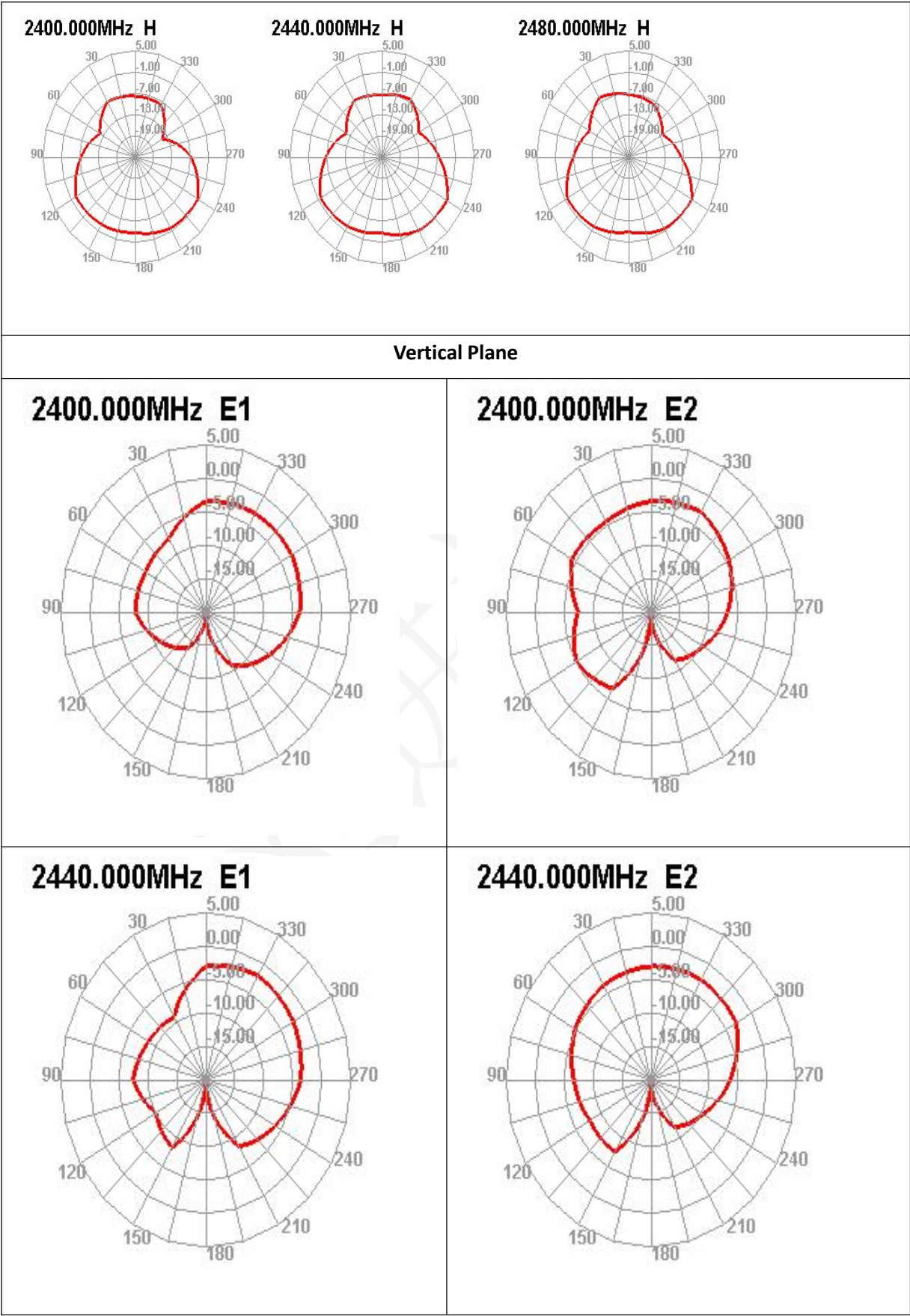
2440.000MHz



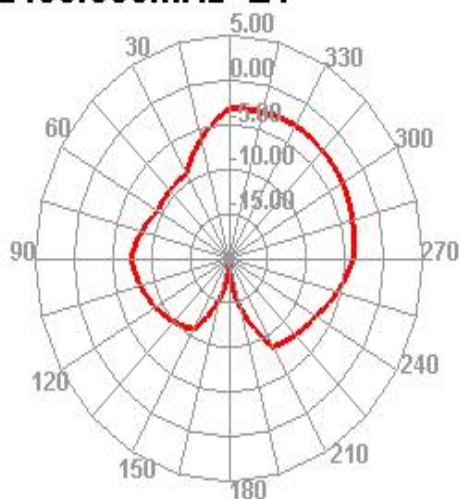
2480.000MHz



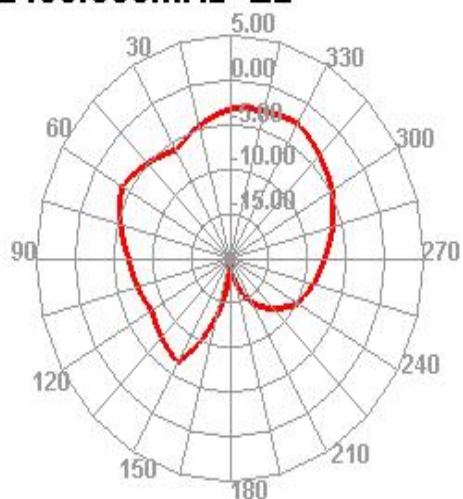
Radiation Pattern (2D) Horizontal Plane



2480.000MHz E1



2480.000MHz E2



Antenna Passive Efficiency

Frequency	E Total. dB(dBi)	Efficiency(%)
2400MHz	-1.39	28.1
2410MHz	-1.34	28.62
2420MHz	-1.13	29.9
2430MHz	-0.85	30.84
2440MHz	-0.56	31.71
2450MHz	-0.25	32.98
2460MHz	-0.34	31.64
2470MHz	-0.79	29.28
2480MHz	-1.15	28.75
2490MHz	-0.99	29.36
2500MHz	-1.6	25.94