

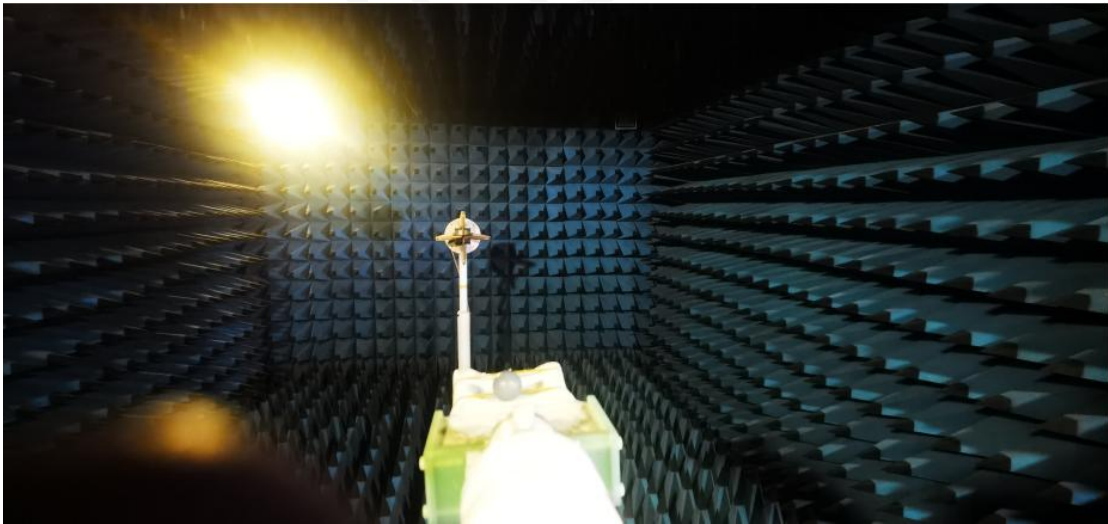
Specification 规格书

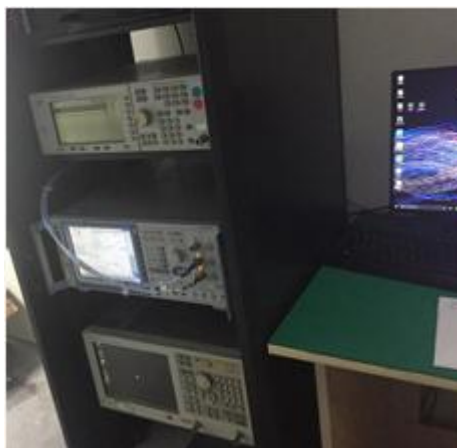
Product Name	M520
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Summary

ITEM	SPEC.
Model Name	BT 2.4 GHz
MAX. GAIN	0.68dBi
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

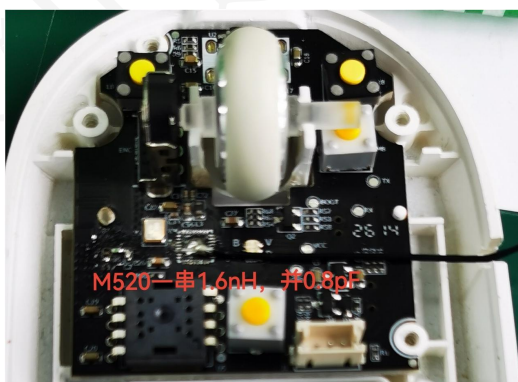
Laboratory Testing Environment and Equipment





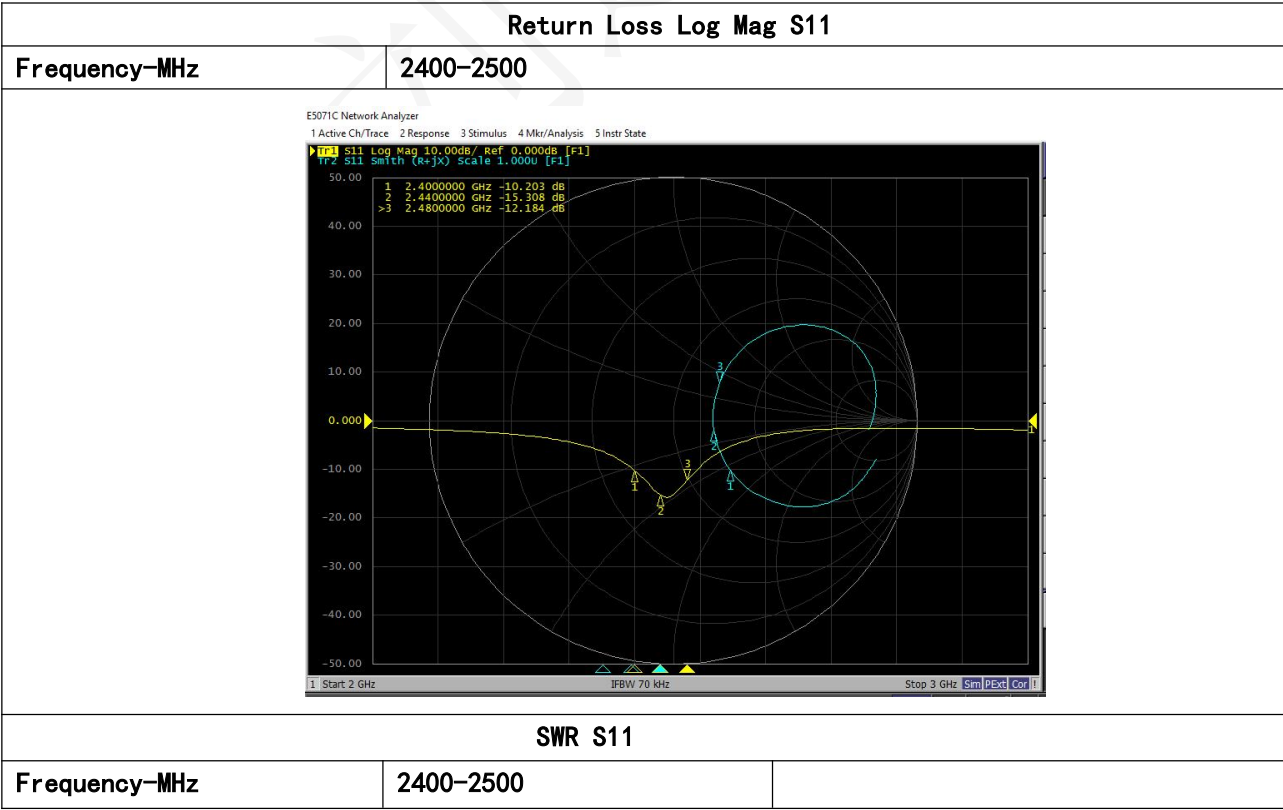
Test Items	Test Equipment
S11、S12、VSWR、LOSS	Network Analyzer E5071B、E5071C、E5062A
Efficiency、Gain、3DRadiation Pattern	Satimo SG16 Anechoic Chamber、GP7*4*3 Anechoic Chamber、E5071B
TRP、TIS	Satimo SG16 Anechoic Chamber、GP7*4*3 Anechoic Chamber、8960、CMW500、MT8820C、E4438C

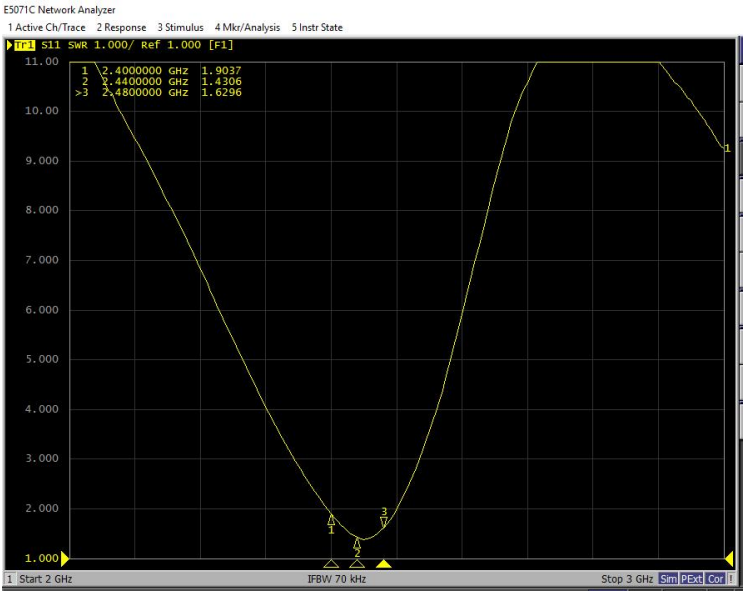
Antenna Photo & Length(mm)



Electrical Performance Test Results

Number	Inspection Items	Unit	Performance Requirements	Test Results	
1	Frequency	MHz	2402-2483	2402-2483	
2	Gain	dBi	/	2400	-0.1
				2440	0.68
				2480	-0.58
3	Efficient	%	/	2400	54.74
				2440	56.37
				2480	47.97
4	Returnloss	dB	≤ -10	2400	-10.2
				2440	-15.3
				2480	-12.18
5	SWR	/	≤ 2	2400	1.9
				2440	1.43
				2480	1.62

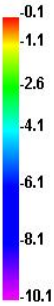
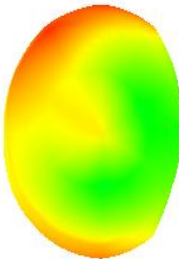




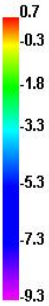
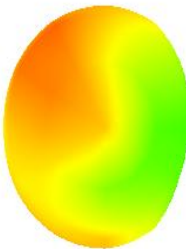
Radiation Parameter Test

Radiation Pattern (3D)

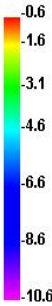
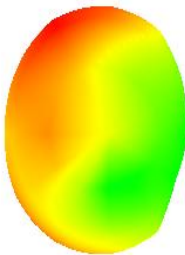
2400.000MHz



2440.000MHz

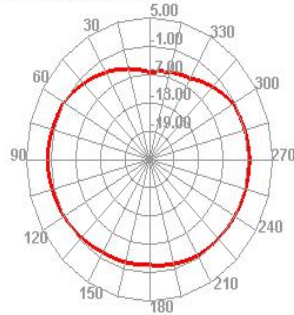


2480.000MHz

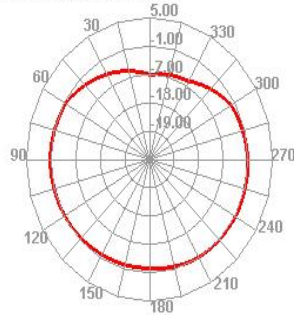


Radiation Pattern (2D) Horizontal Plane

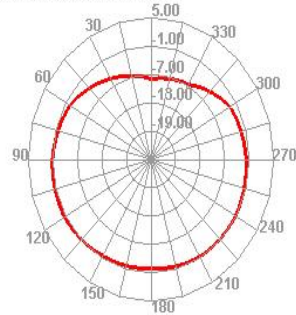
2400.000MHz H



2440.000MHz H

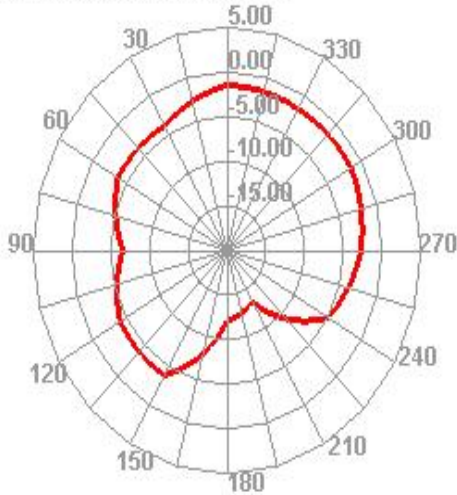


2480.000MHz H

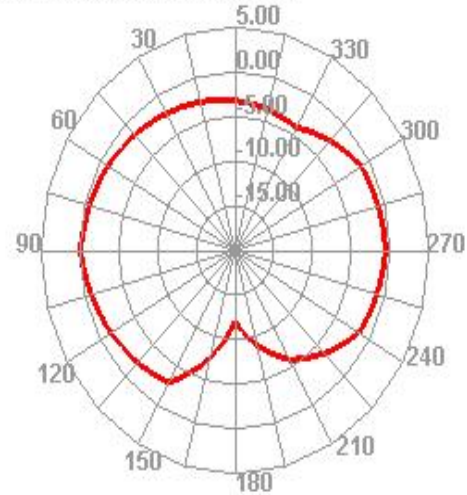


Vertical Plane

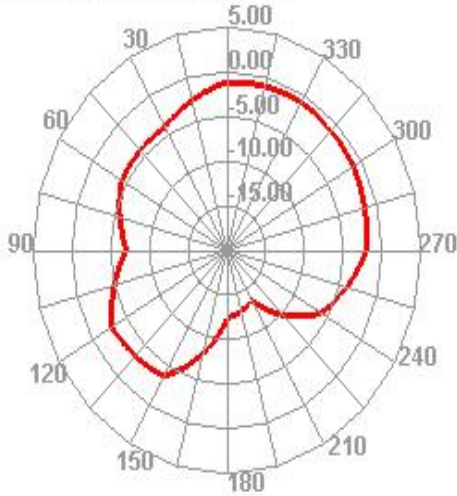
2400.000MHz E1



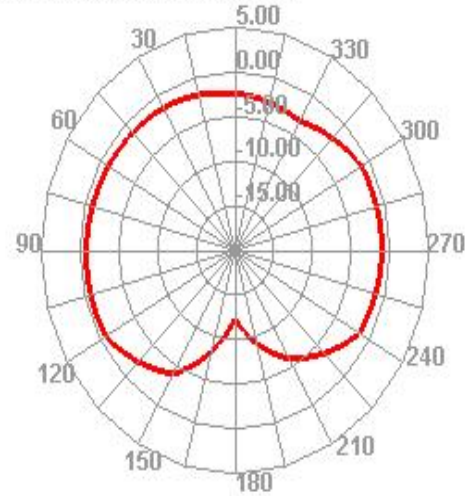
2400.000MHz E2



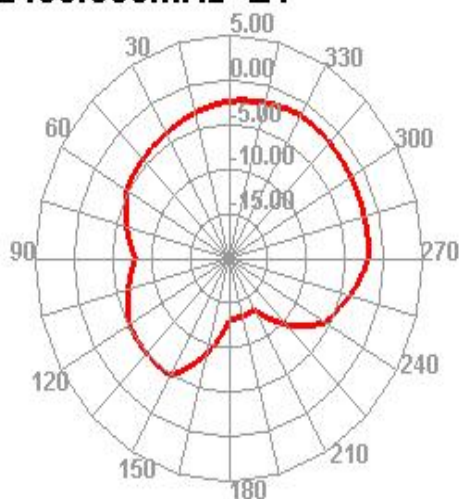
2440.000MHz E1



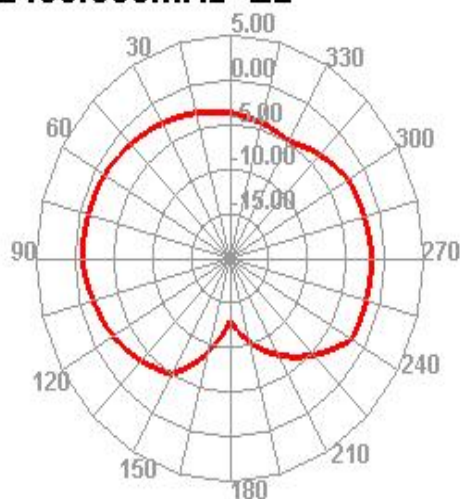
2440.000MHz E2



2480.000MHz E1



2480.000MHz E2



Antenna Passive Efficiency

Frequency	E Total. dB(dBi)	Efficiency(%)
2400MHz	-0.1	54.74
2410MHz	-0.36	53.25
2420MHz	0.14	54.02
2430MHz	0.47	54.81
2440MHz	0.68	56.37
2450MHz	0.57	57.6
2460MHz	-0.09	53.69
2470MHz	-0.28	52.27
2480MHz	-0.58	47.97
2490MHz	0.08	53.56
2500MHz	-0.39	48.26