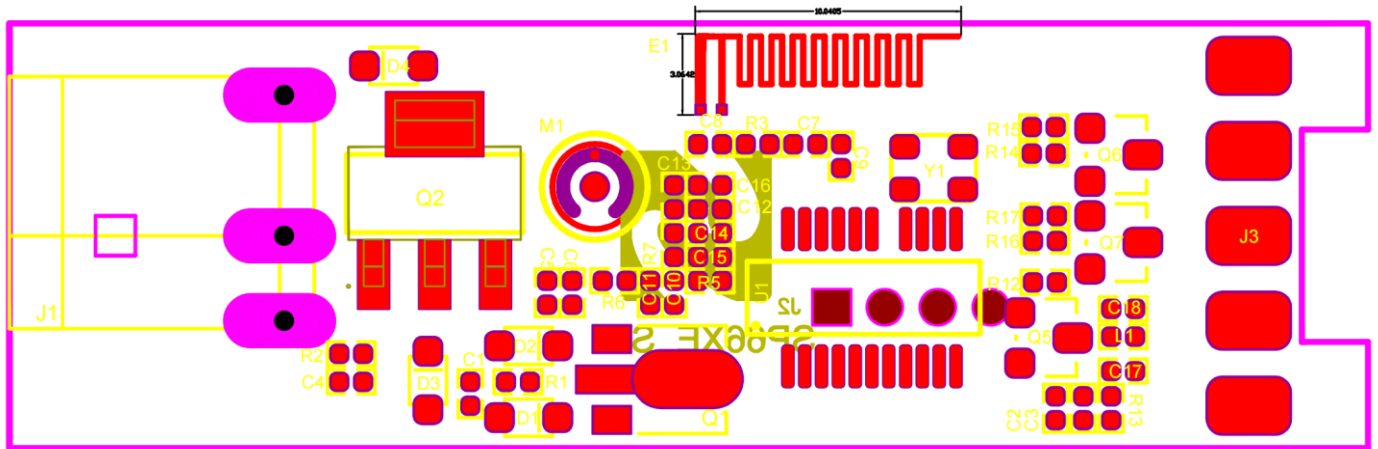


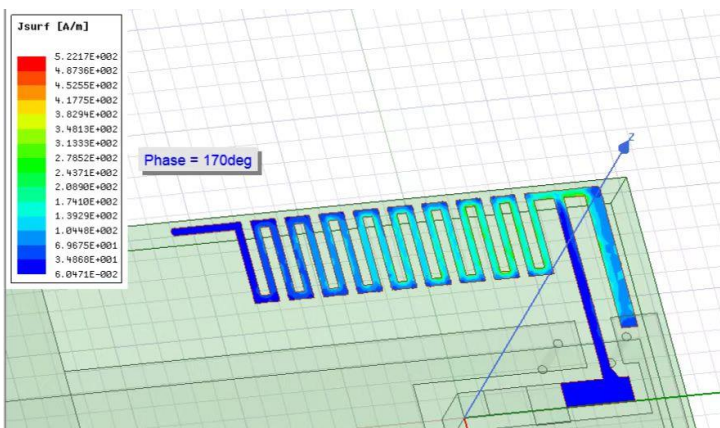
SP66XE Antenna Specifications

1. Antenna location and size (mm) :

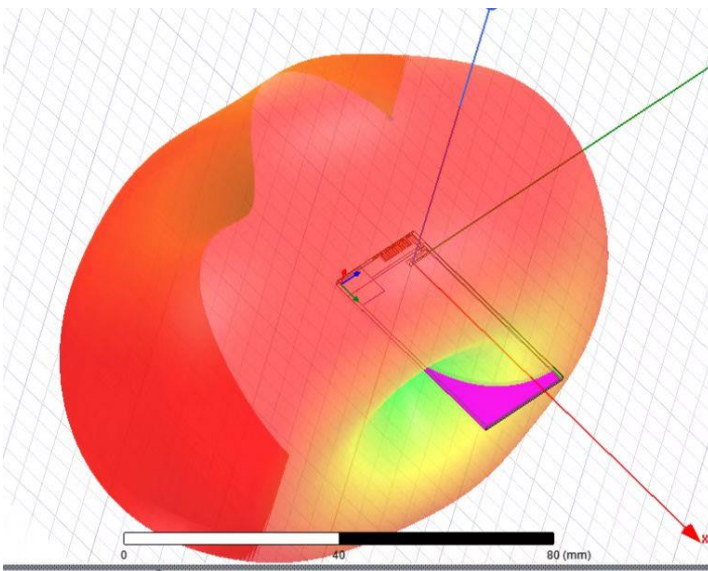


2. Antenna simulation Report:

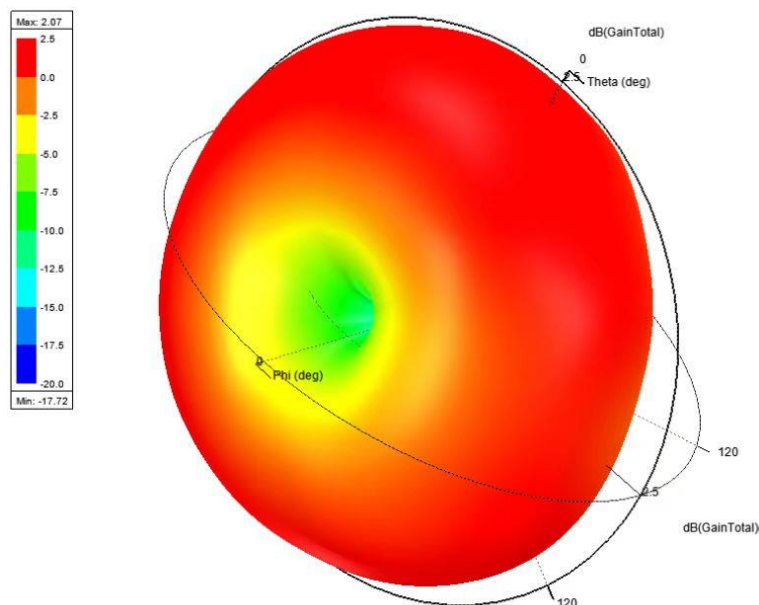
1) Antenna surface current distribution :



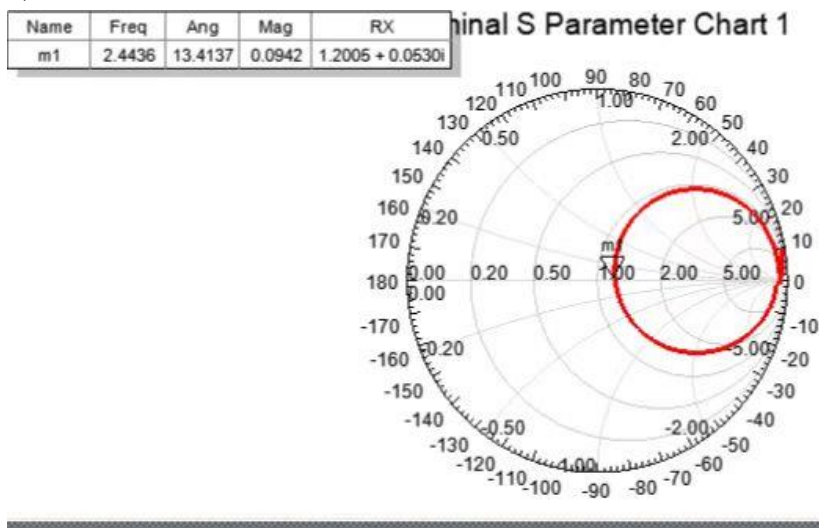
2) Antenna and antenna radiation pattern:



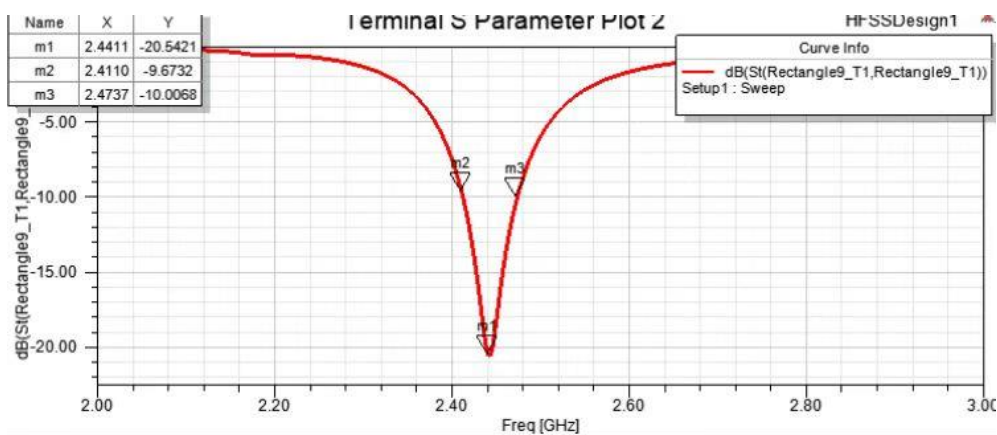
3)Antenna radiation pattern and gain pattern::



4)Smithchart:

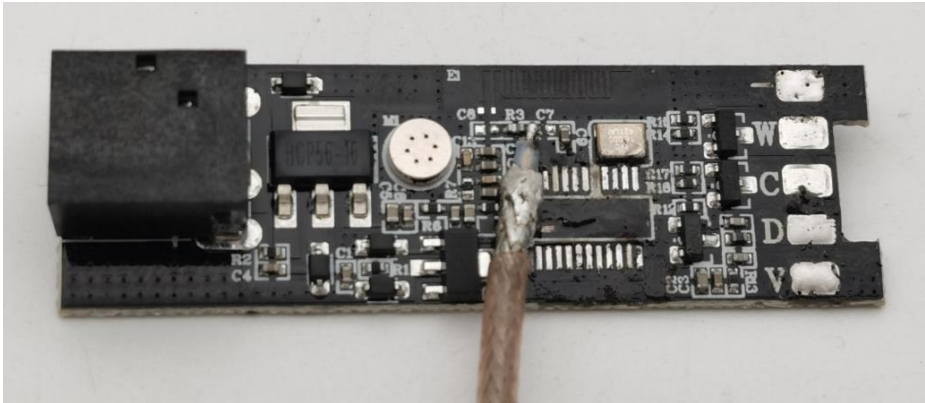


5)S Parameter Plot:

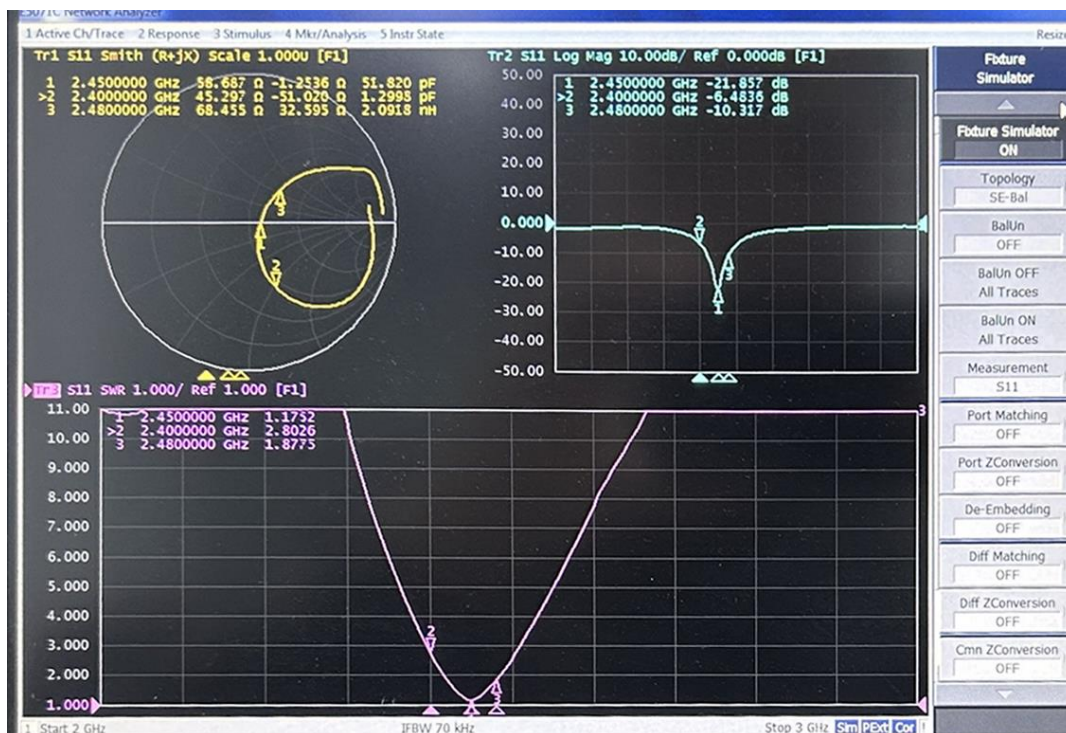


3.Test Report:

1)Appearance :



2)Antenna Smithchart ,VSWR and Return Loss:



4.Basic Characteristics:

A.Electrical Characteristics:	
Frequency	2400~2500 MHz
S.W.R.	<=2.5 @2400~2500 MHz
Max.Gain	2.0 dBi @2400~2500 MHz
Efficiency	40~50%@2400~2500 MHz
Polarization	Linear
Impedance	50 Ohm
B.Material & Mechanical Characteristics:	
Material of Radiator	PCB
Cable Type	0.D.1.13 mm//112mm (gray)
Connector Type	NONE
Pull Test	/
C.Environmental:	

Operation Temperature	-40℃~+65℃
Storage Temperature	-40℃~+80℃

5.Gain and Efficiency:

frequency（GHz）	2.4	2.41	2.42	2.43	2.44	2.45	2.46	2.47	2.48	2.49	2.5
efficiency（%）	48.96	51.76	57.12	60.09	61.9	63.08	66.51	67.74	67.76	66.47	70.02
Gain（dBi）	1.89	1.92	1.94	2.00	2.00	2.00	1.96	1.98	2.00	1.98	2.00

Manufacturer: Shenzhen Sperll Optoelectronic Technology Co., Ltd.
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