

Antenna Testing

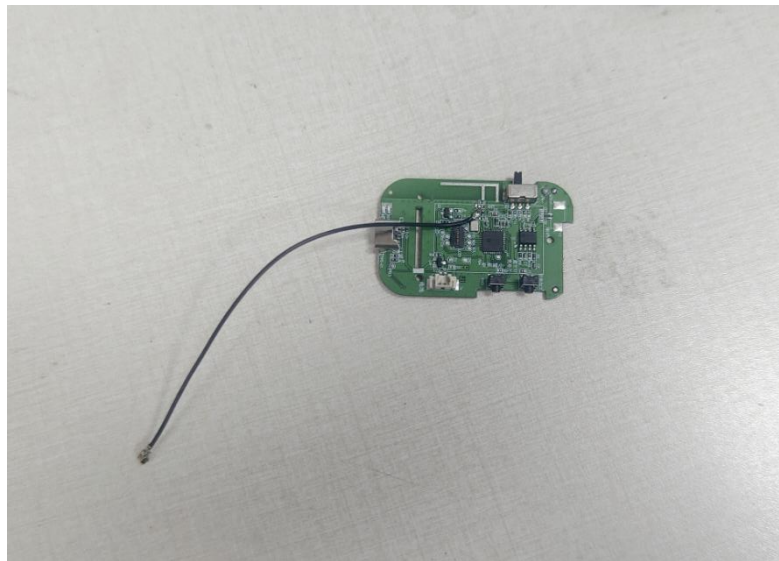
Manufacturer:Shenzhen Keithy Innovation Technology Co., Ltd.

**Address:RM101, Building B, Mili Cultural and Creative Park, No. 6,
Changfa East Road, Yangmei Community, Bantian Street, Longgang
District, Shenzhen, China**

1, Hardware Testing

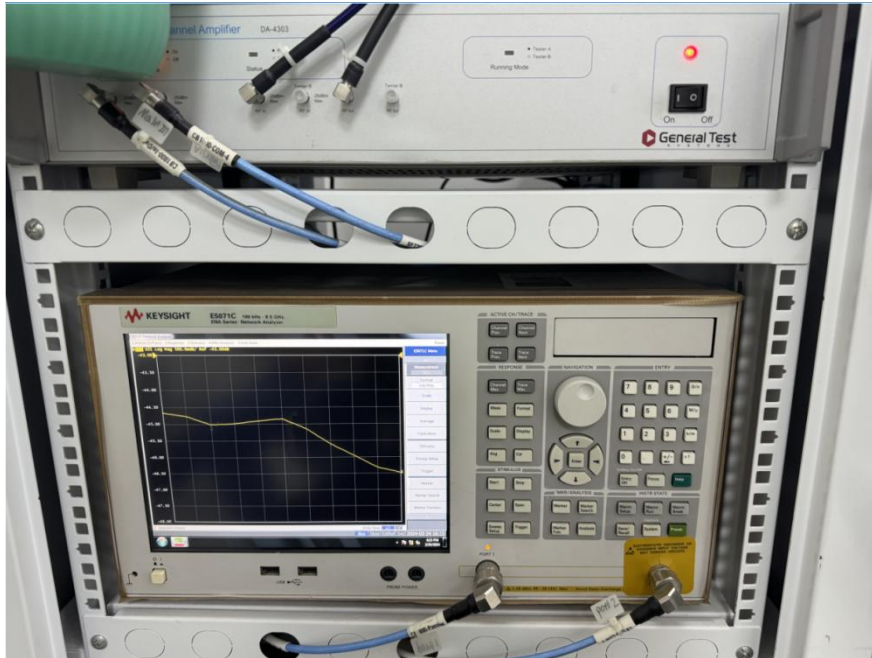
1.1, PCBA Bare Board Testing

Solder the antenna cable to the bare board, then connect it to the OTA device. The RF cable connection diagram to the bare board is shown below:



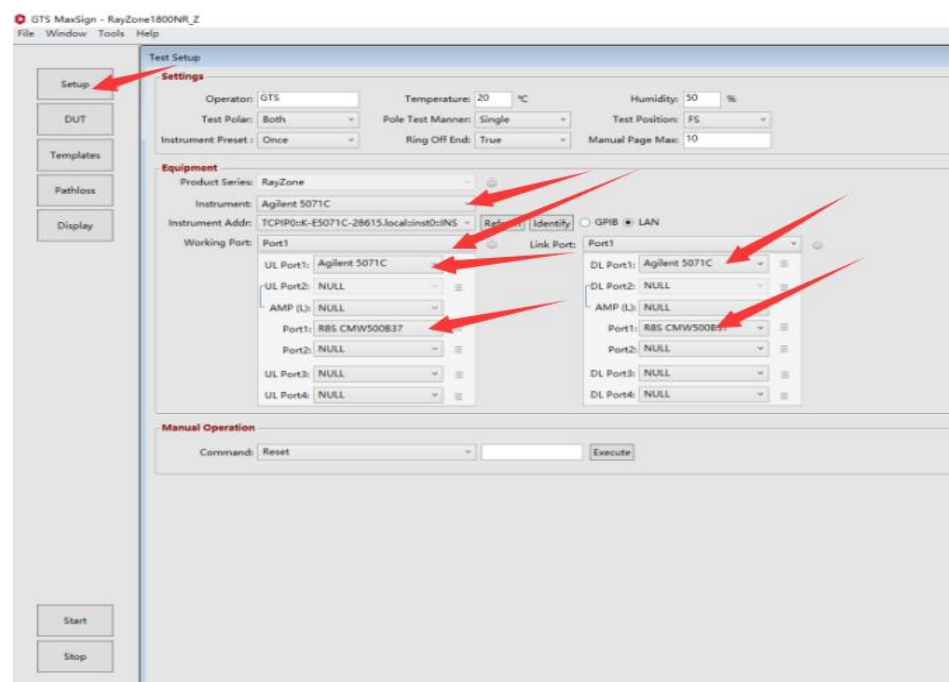
1.2, Device Environment

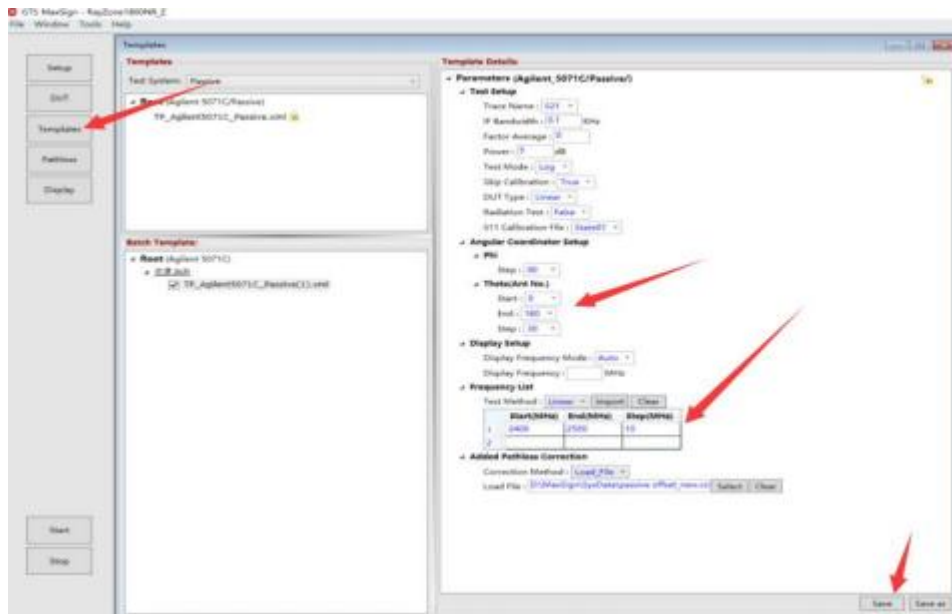
The equipment needed for this test includes a computer, a spectrum analyzer, an amplifier, and a darkroom, as shown in the diagram below:





2, Software Testing

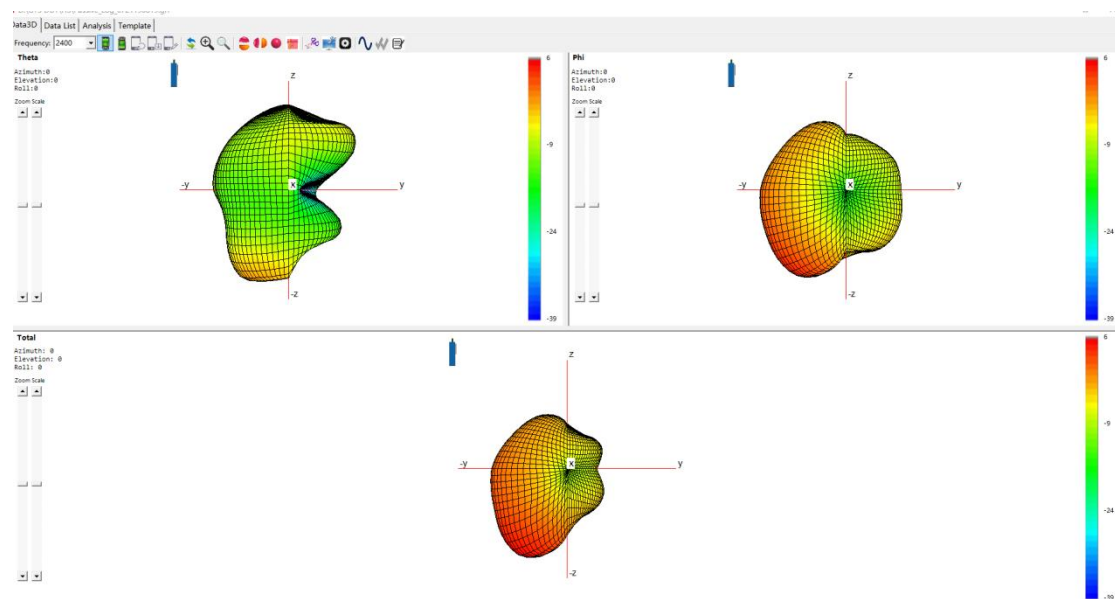




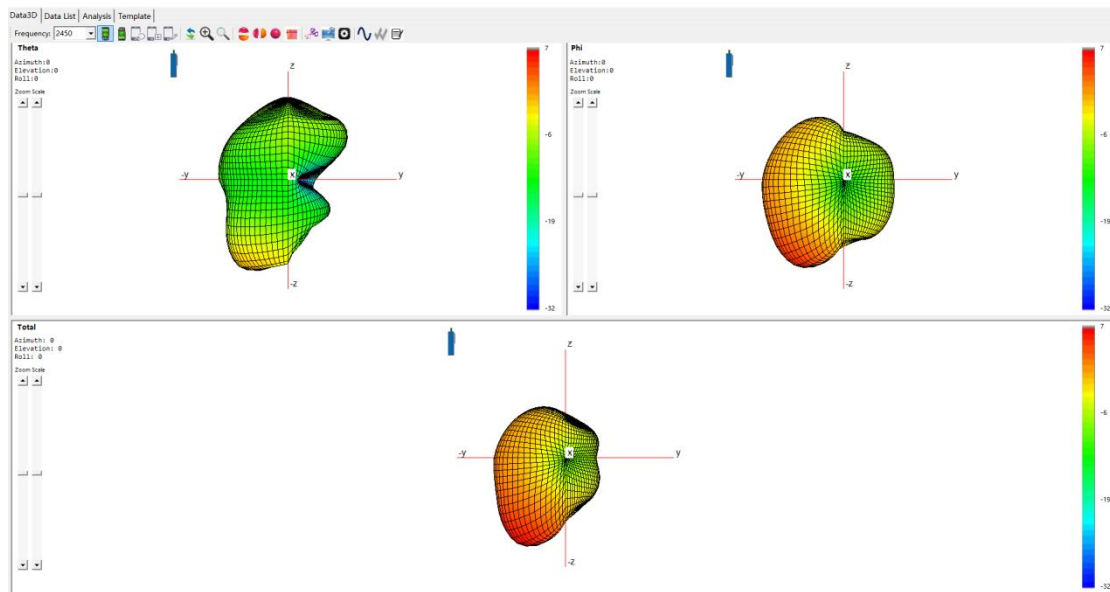
3, Data Reading

3.1, 3D Radiation Diagram Of The Scanned Antenna

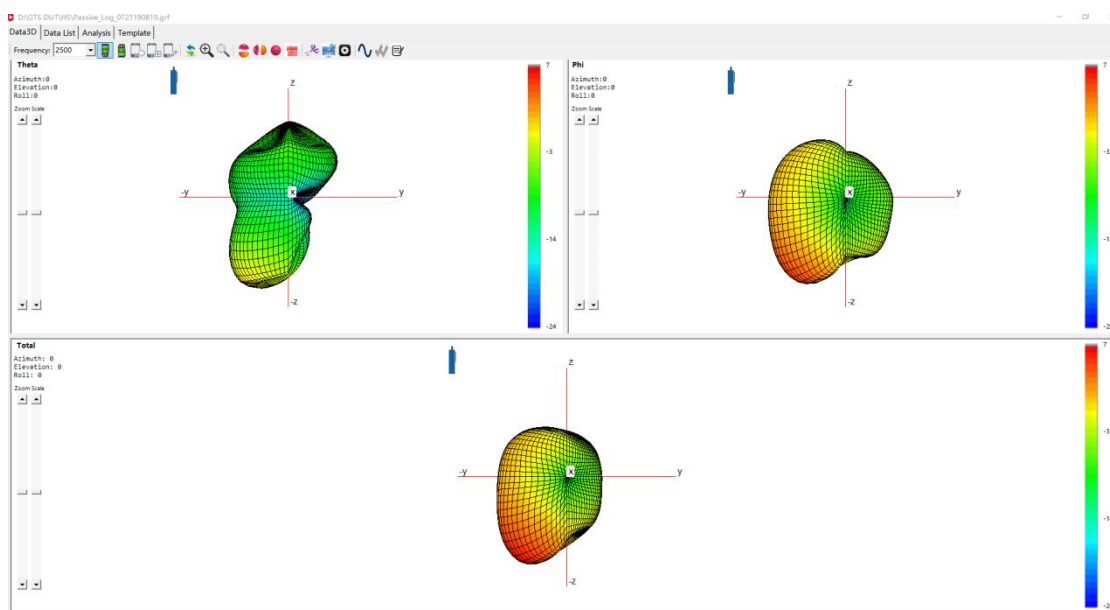
2400MHz:



2450MHz:



2500MHz:



3.2, Scan The 2D Radiation Pattern Of The Antenna



3.3, Detailed Scan Output Data Results

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
<u>2400</u>	-1.70695266583715	-1.62026873734077	68.8609684506275
<u>2410</u>	-1.92737170519863	-1.50962874572616	70.6377936015428
<u>2420</u>	0.06863371155266	-1.3959222387767	72.511648084451
<u>2430</u>	0.58618946775822	-0.966156777259927	80.0542369396054
<u>2440</u>	0.78955626121612	-0.845740610118109	82.3049468860721
<u>2450</u>	0.77754748907479	-0.818604522956813	82.8208241218101
<u>2460</u>	1.11526235568329	-0.447387427715291	90.211365621452
<u>2470</u>	1.07592926566833	-0.473934110800661	89.6616215517795
<u>2480</u>	1.15261461374219	-0.375362644127426	91.7199344307642
<u>2490</u>	1.10063463665692	-0.383096243851302	91.5567515890619
<u>2500</u>	0.56139357107785	-0.829417208133999	82.6148805349076

ITEM	ANT SPEC		
Model Name	2.4G ANT		
Antenna plate	PCB antenna		
Center Frequency	2400MHz	2450MHz	2500MHz
	-1.706dBi	0.777dBi	0.561dBi
MAX.Gain	1.15dBi		
Polarization	Horizontal and Vertical		
Impedance	50Ohm		
Manufacture			

AntennaPhouo&Length(mm)

