ANTENNA REPORT

Manufacture：FOCUS Electronic

Product Name：Switch2 Antenn

Antenna Type：PCB

Test Date：2024.09.30

Tested by：Jing Jing Huang

Approved by：Jian Fang Li

Content

1. General Description.....1

2. Test Configurations..... 2

2.1 Test Environment..... 2

2.2 Test Equipment..... 2

2.3 Test Principle..... 2

3. Test Results.....3

3.1 Gain and Efficiency.....3

3.2 Radiation Pattern..... 4

4. Antenna Dimensions.....6

5. EUT Photo.....6

6. Test Setup Photo..... 7

1. General Description

Manufacturer	Zhongshan FOCUS HI-TECH Co.,ltd
Address	Building C,Jingfukang Industrial zone, FengHuang Road No.9, Torch development district, Zhongshan, China
Test Location	609, 6th Floor, Building 3, Private Enterprise Science and Technology Park, No. 65 Lishan Road, Nanshan District, Shenzhen
Product Name	Fumigator
Product model	SWITCH2
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979

2. Test Configurations

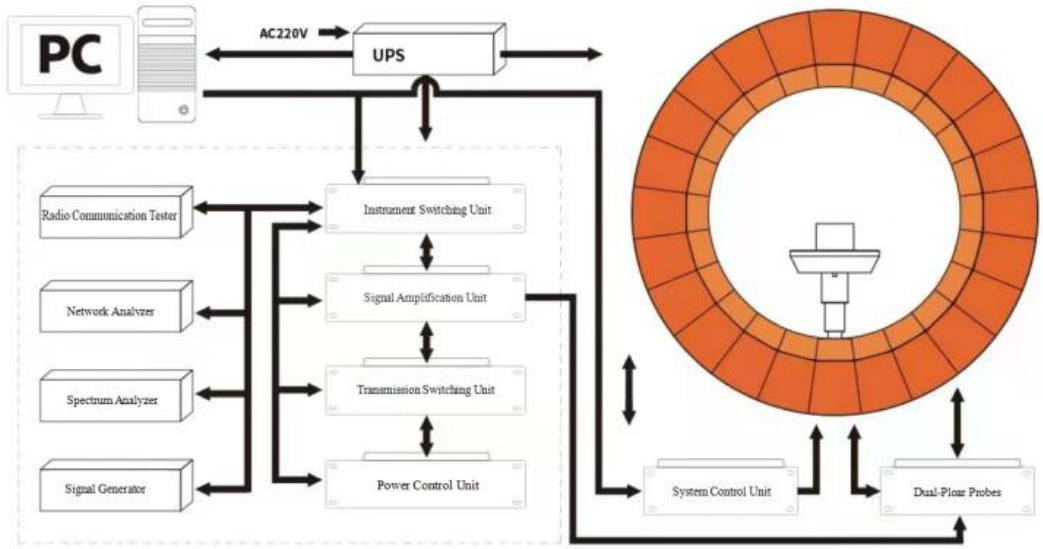
2.1 Test Environment

Temperature (°C)	25
Humidity (%RH)	60
Atmospheric Pressure (kPa)	100.5

2.2 Test Equipment

Test System	General Test-RayZone 1800
Test Instrument	E5071C

2.3 Test Principle

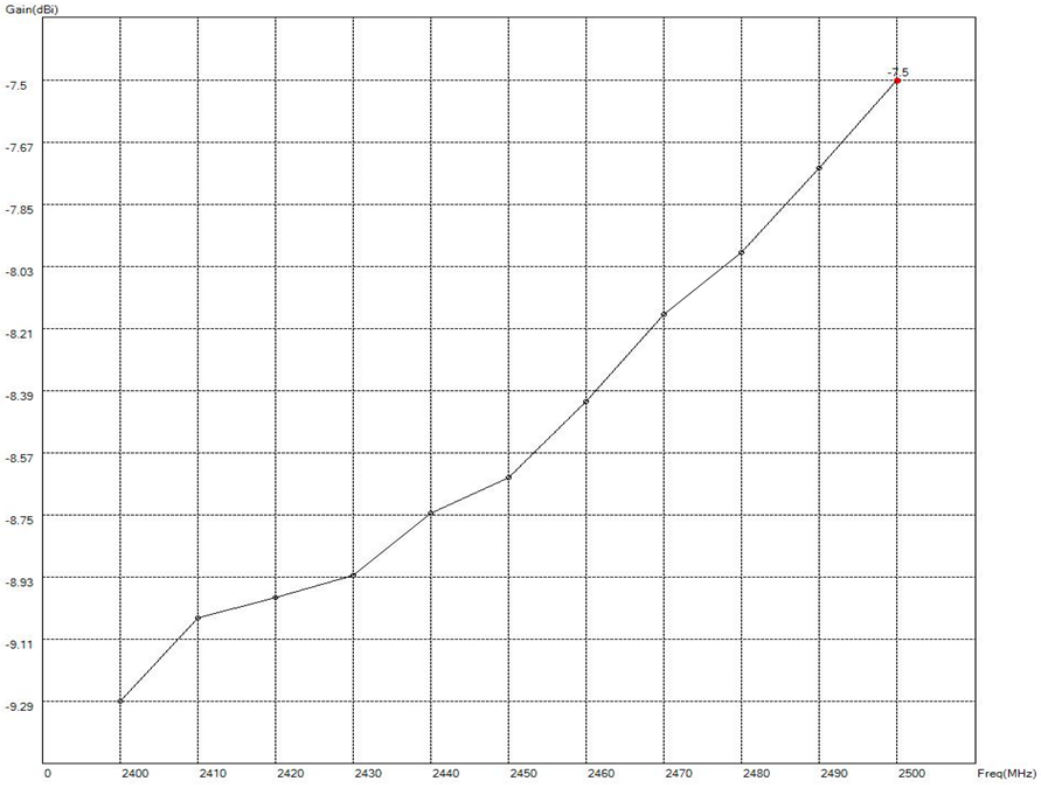


3. Test Results

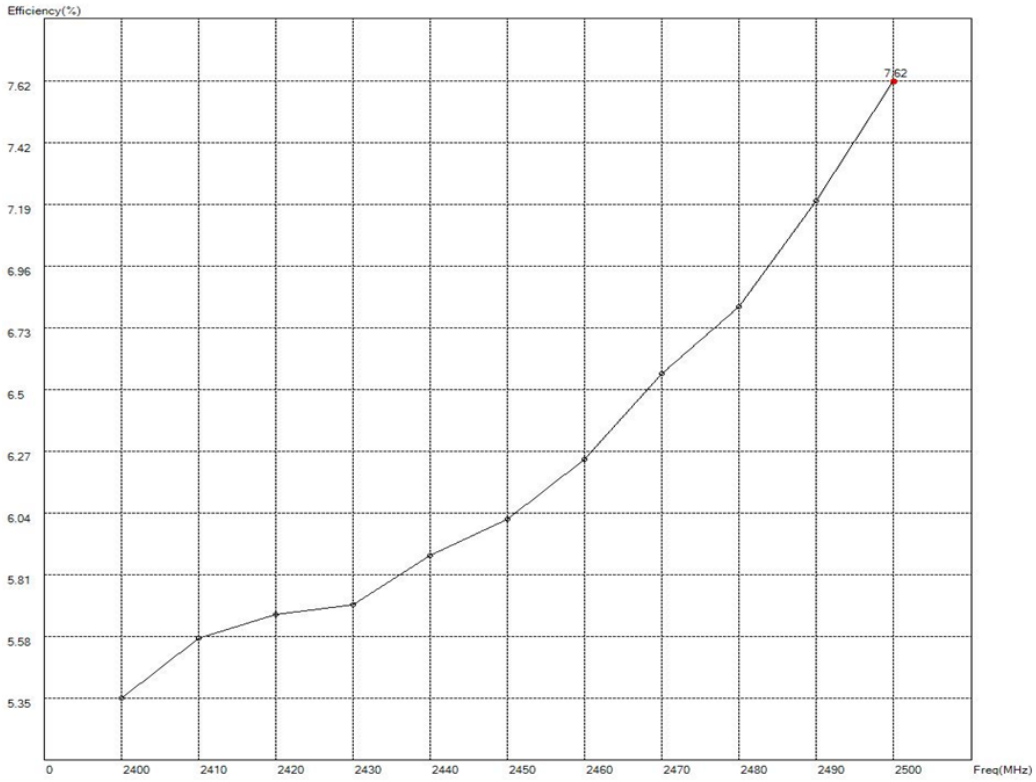
3.1 Gain and Efficiency

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	-9.29	5．328
2410	-9.19	5．530
2420	-8.93	5．665
2430	-8.90	5．702
2440	-8.71	5．864
2450	-8.62	6．001
2460	-8.45	6．202
2470	-8.11	6．522
2480	-7.99	6．773
2490	-7.79	7．165
2500	-7.51	7．625

Gain-Plane

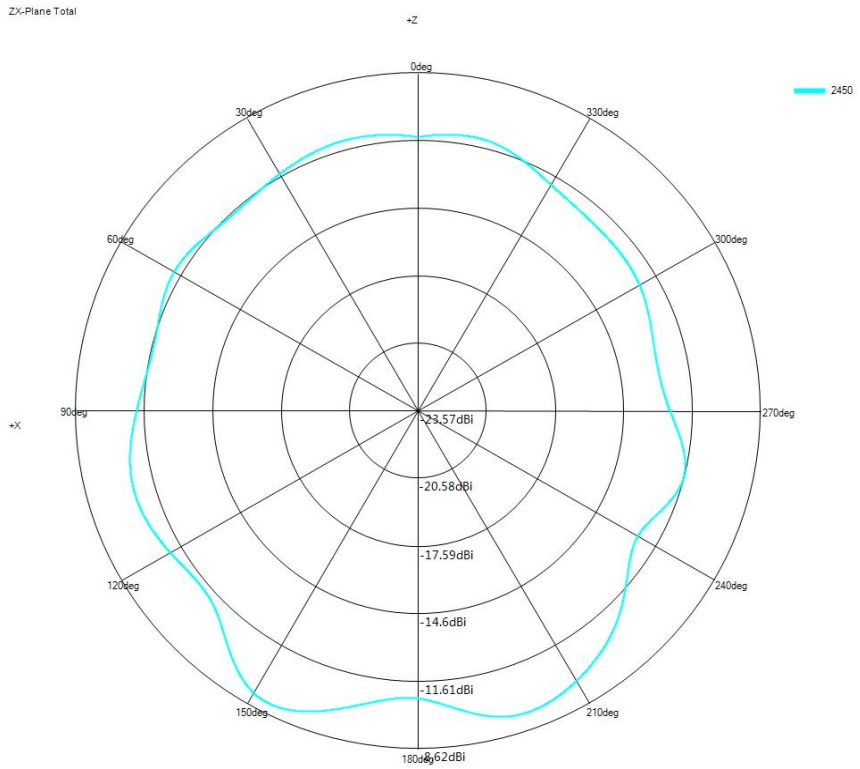


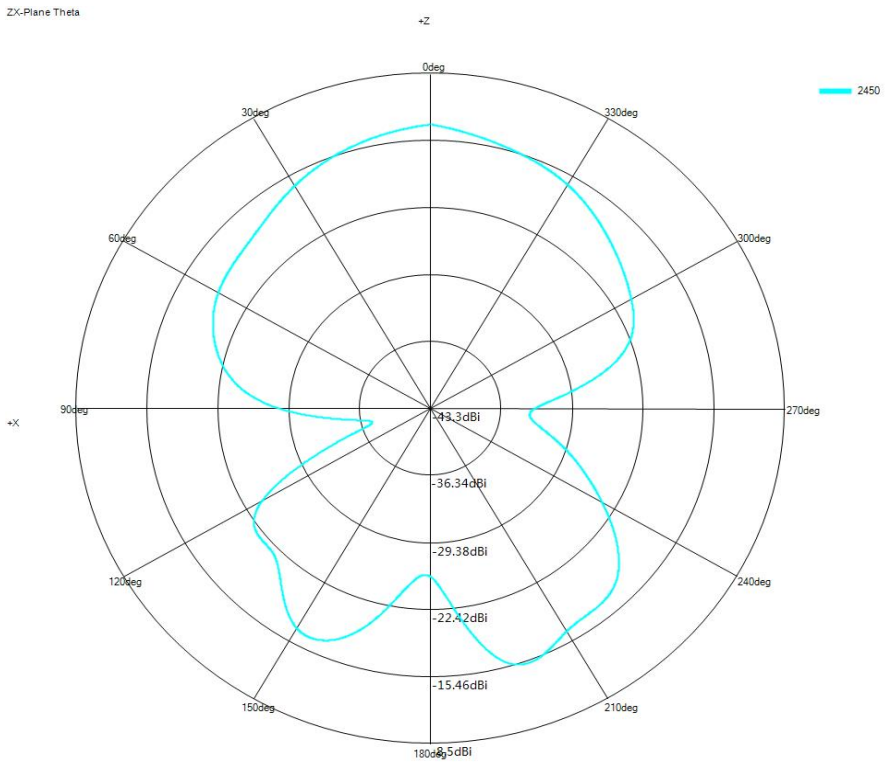
Efficiency-Plane



3.2 Radiation Pattern

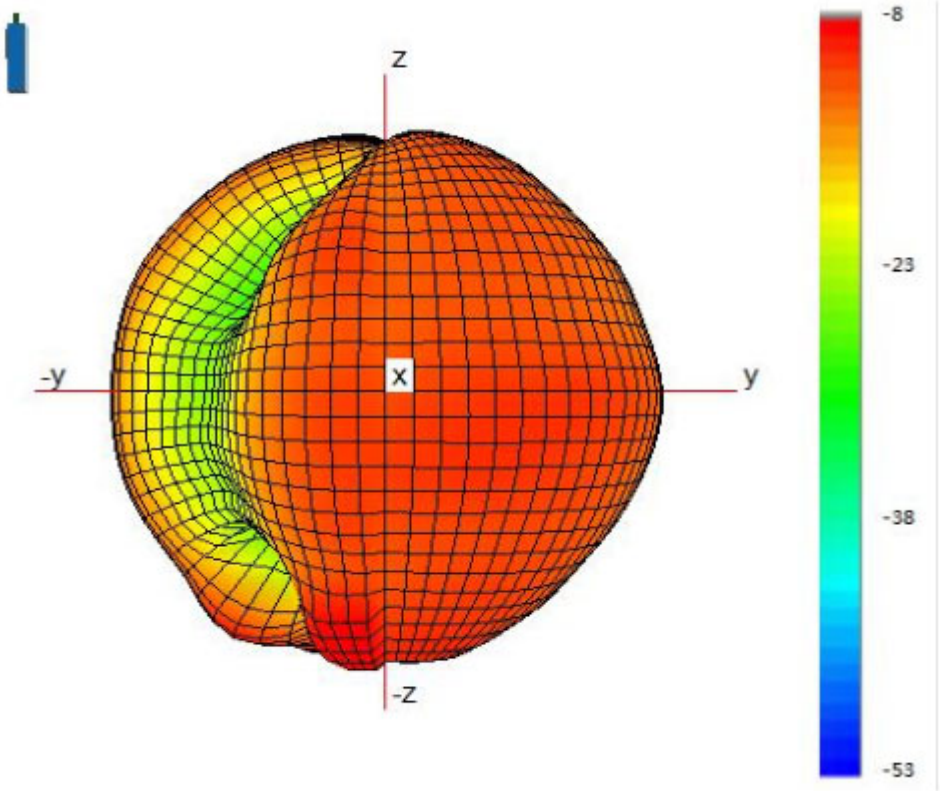
2D Plot



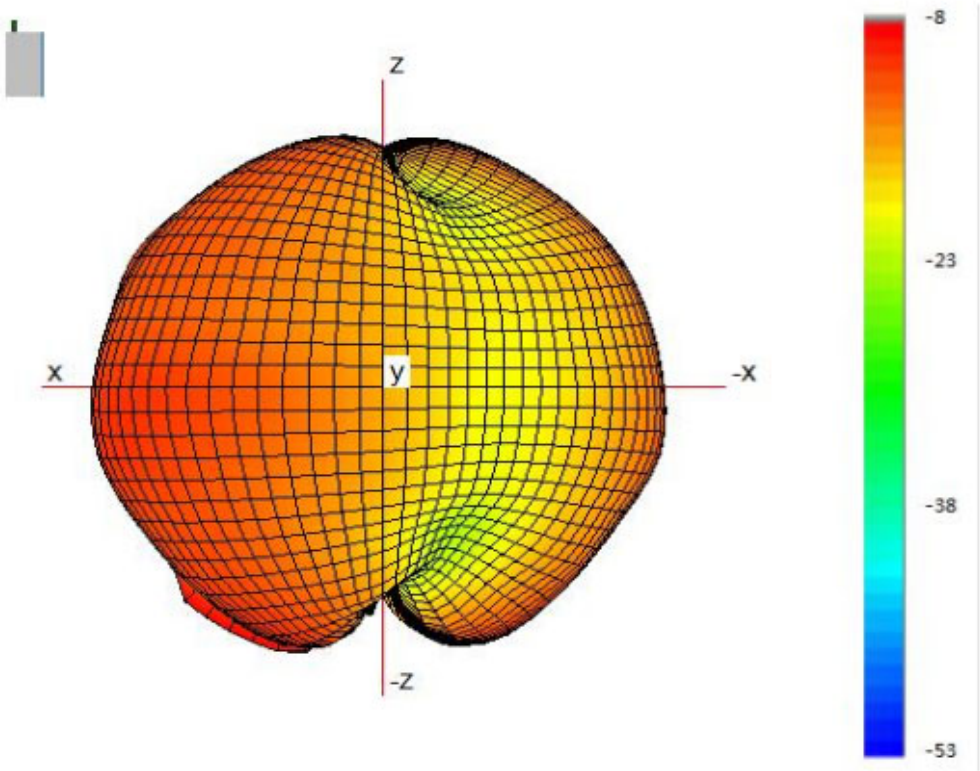


3D Plot

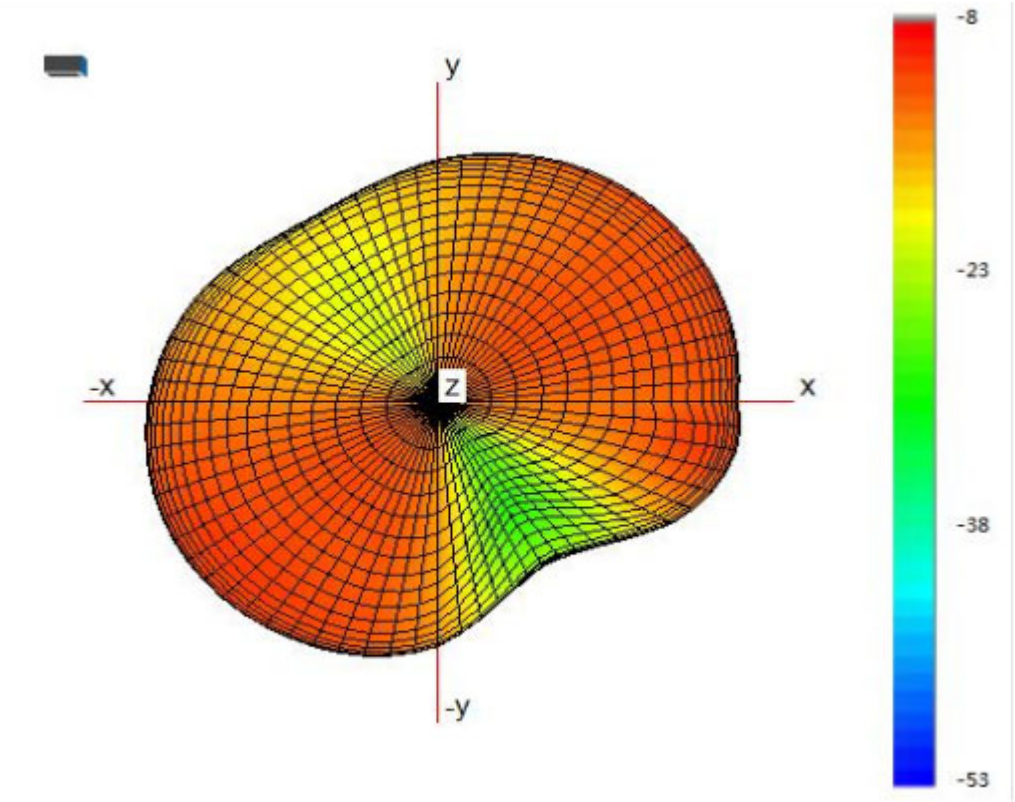
Freq(MHz) 2450 X+



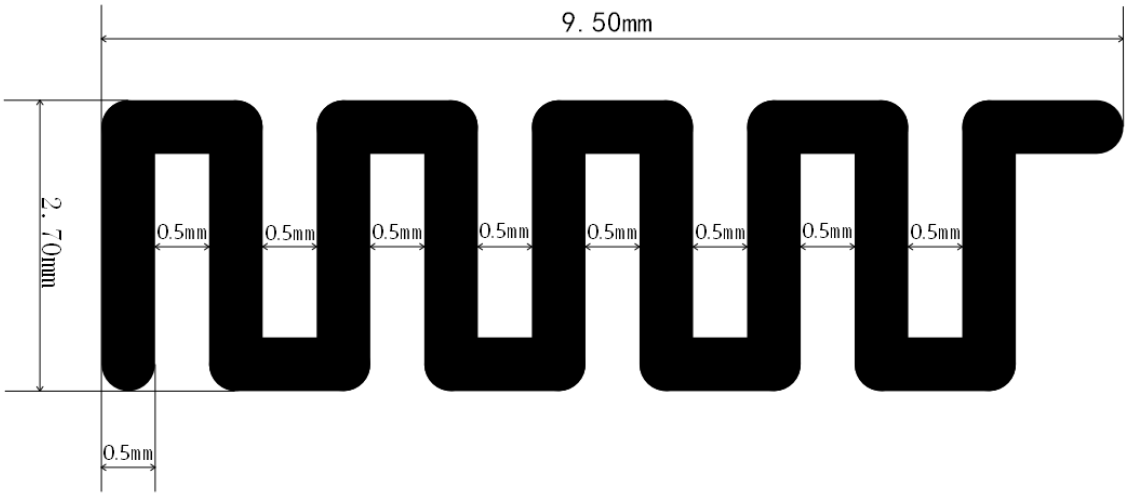
Freq(MHz) 2450 Y+



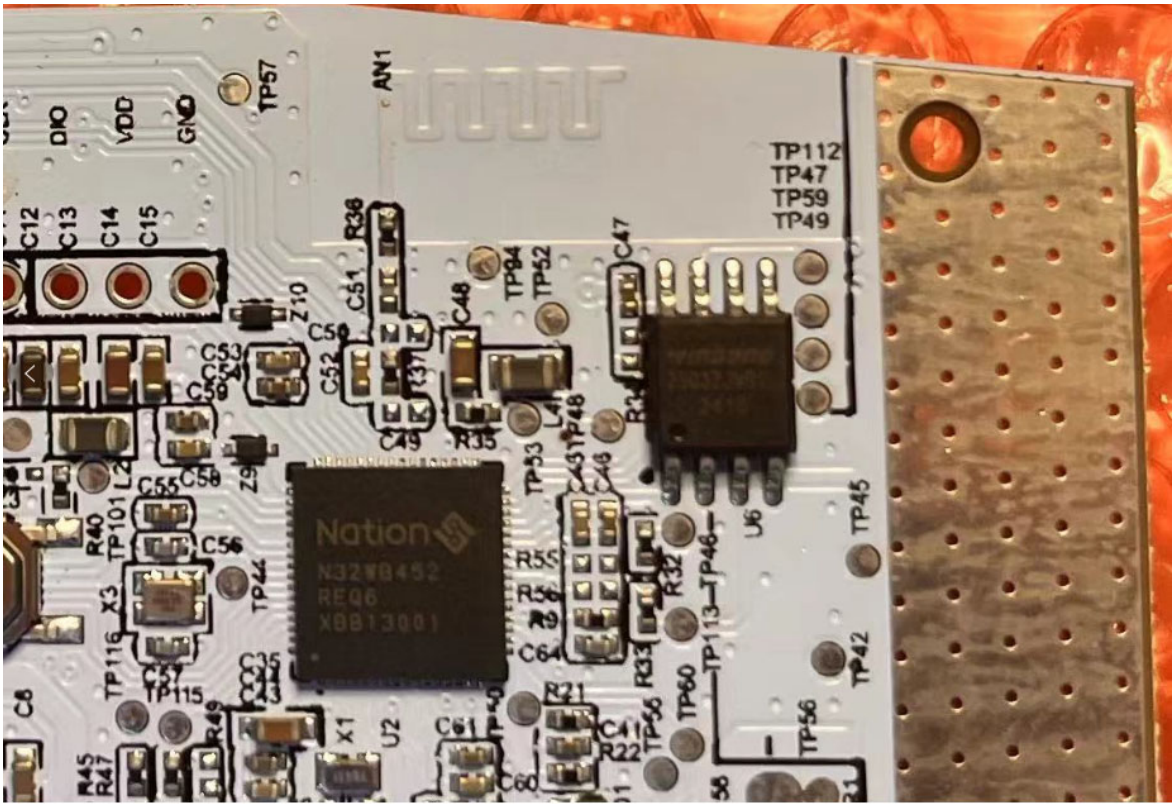
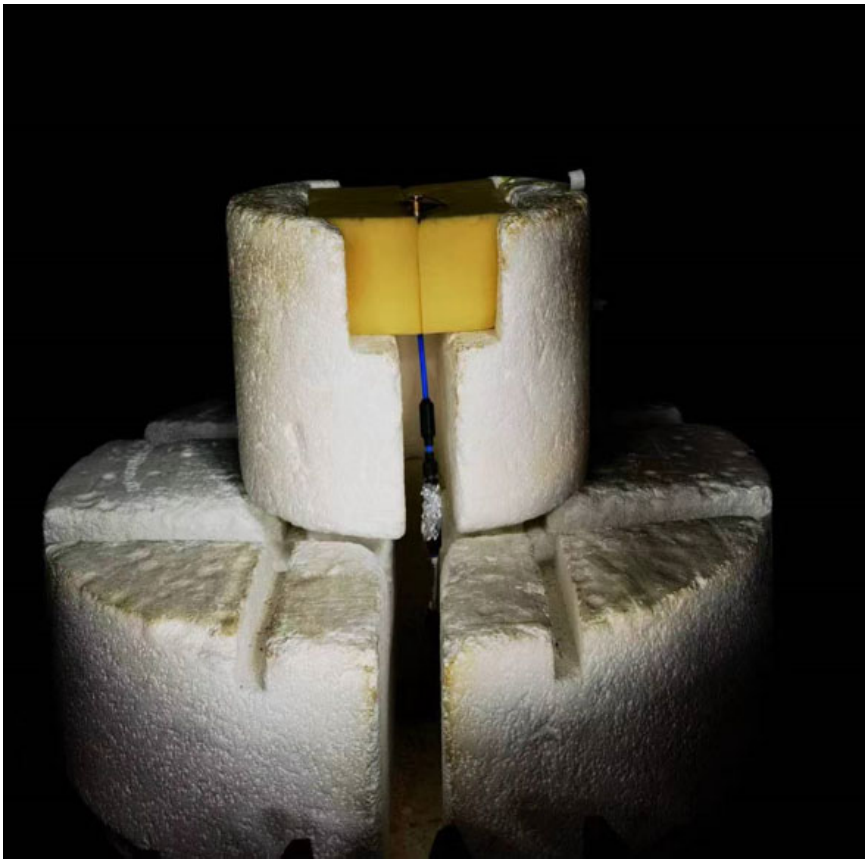
Freq(MHz) 2450 Z+



4. Antenna Dimensions



5. EUT Photo



6. Test Setup Photo