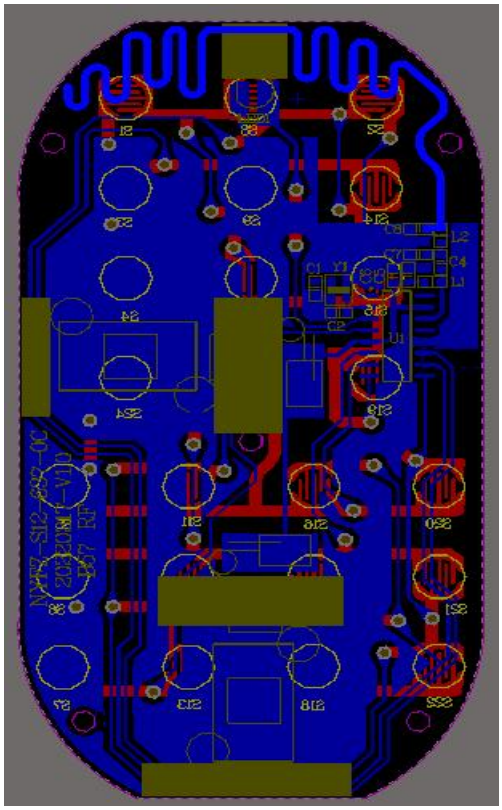
Catalogue

1.Drawing or Product Image

Antenna length：120.256mm

Antenna width：0.8mm



2.Technical Parameter

1. Antenna		
No	**Part Name**	**SPEC**
1	Frequency Range	433MHz
2	Impendence	50 ohm nominal
3	Gain	＞-3dBi
4	Polarization	LINE
5	VSWR	≤1.5
6	Efficiency	≥18%

2. Environmental Characteristics

No	Part Name	SPEC
1	Operation Humidity	5~95%
2	Operating Temperature	-20~+60℃
3	Store Temperatuer	-30~+70℃

RF Performance Test Report

Antenna Test Equipment Introduction

Test of antenna input characteristics using **Agilent E5071C and Agilent 5062A** vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

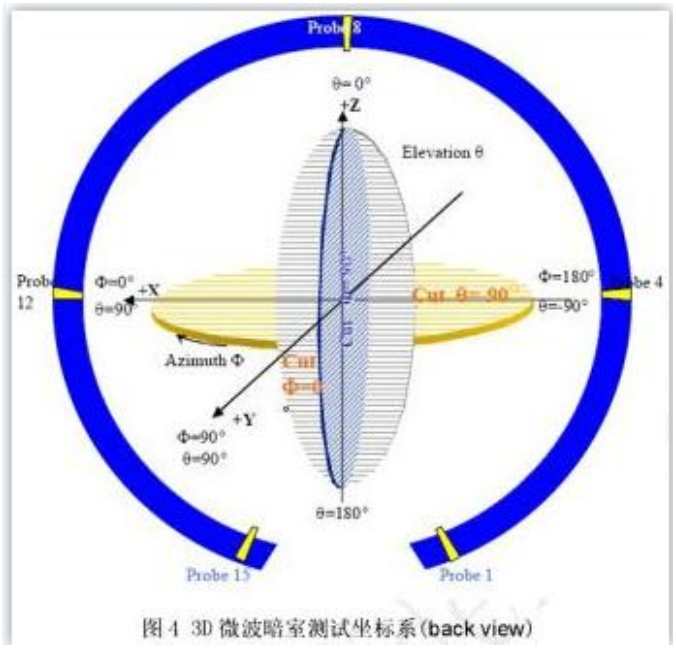
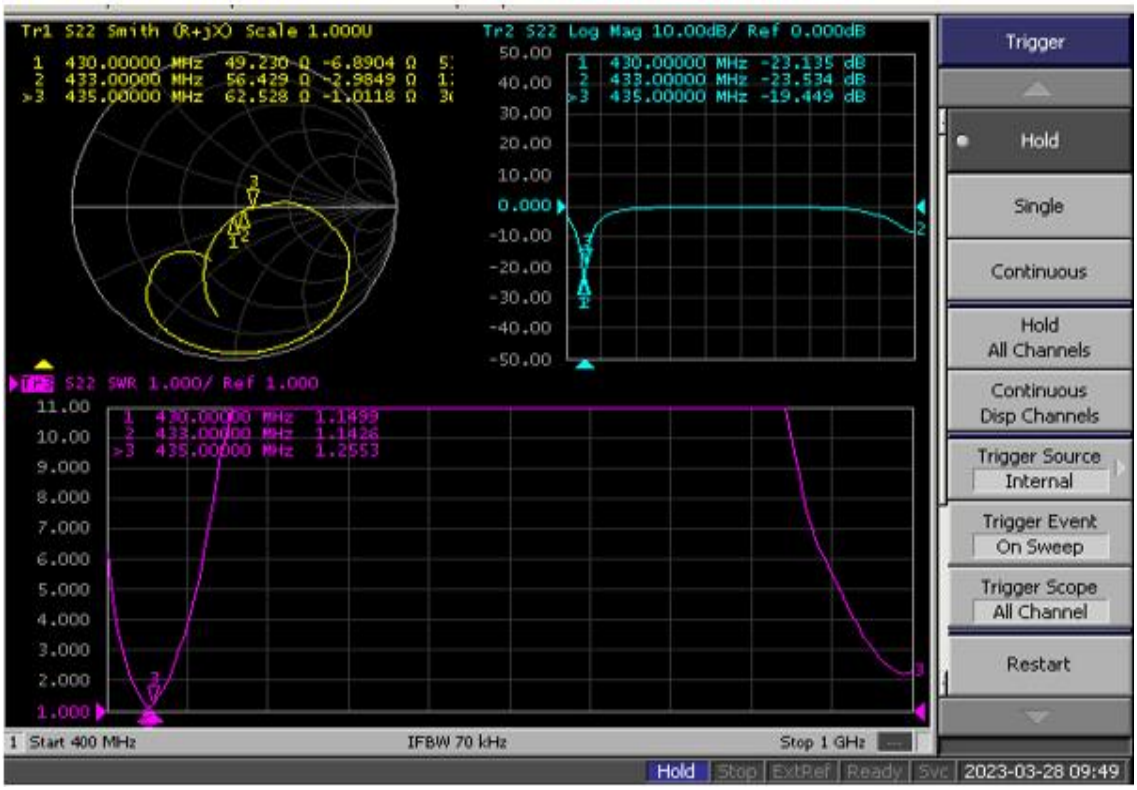


图 4 3D 微波暗室测试坐标系(back view)

1./ *S11 Parameter-VSWR*

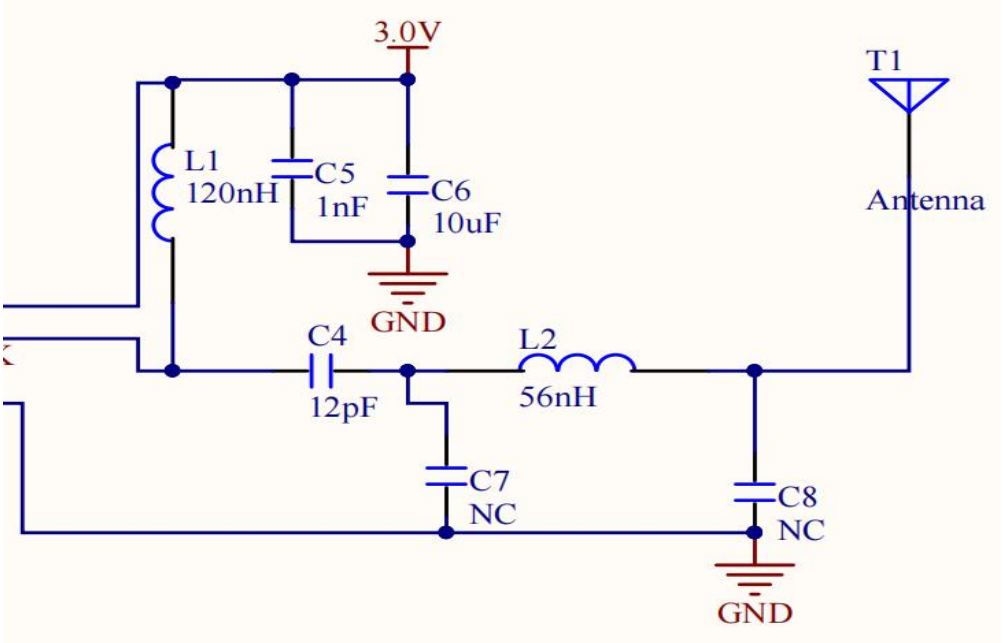
Measuring Method is a 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

S11 Parameter



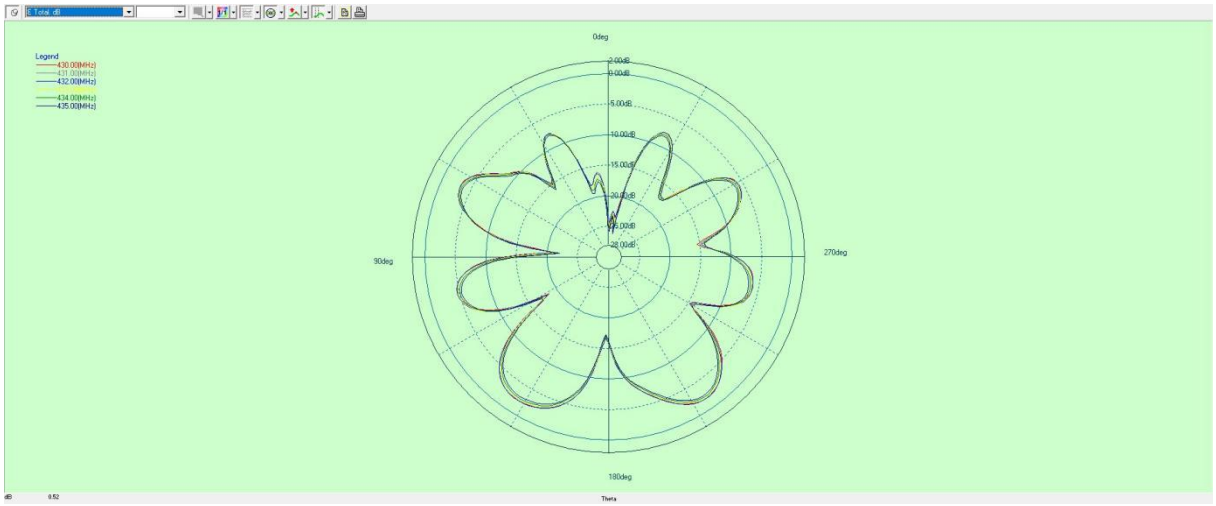
Frequency(MHz)	430	433	435
VSWR	1.14	1.14	1.25

2. **Antenna Matching Network**

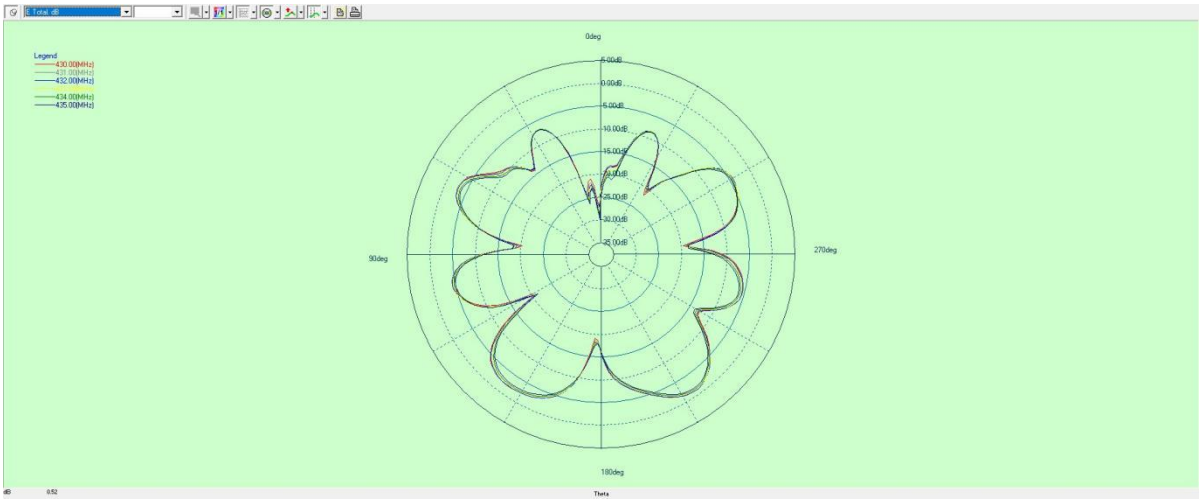


PCB板端匹配电路未改动

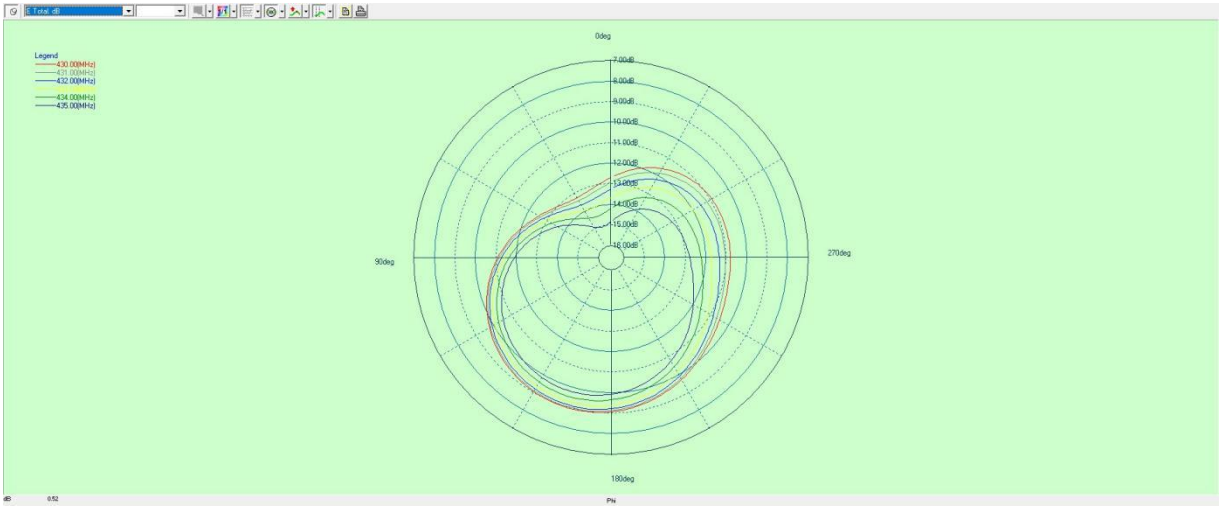
2D Pattern



Phi =0



Phi =90



Theta =90

3. Gain & Efficiency-ANT

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
430	21.27	-1.33
433	21.66	-1.22
435	20.19	-1.53