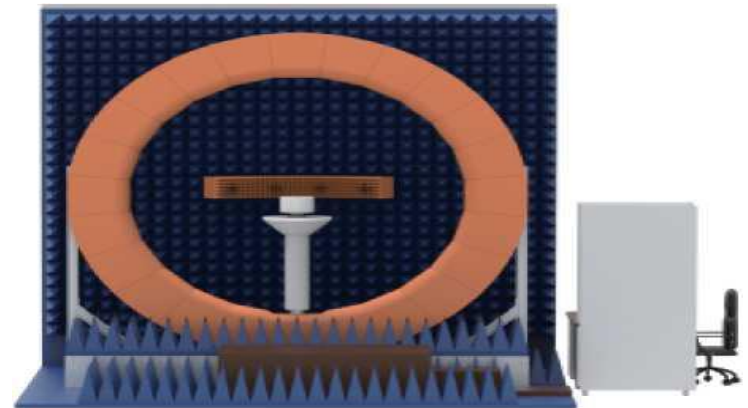
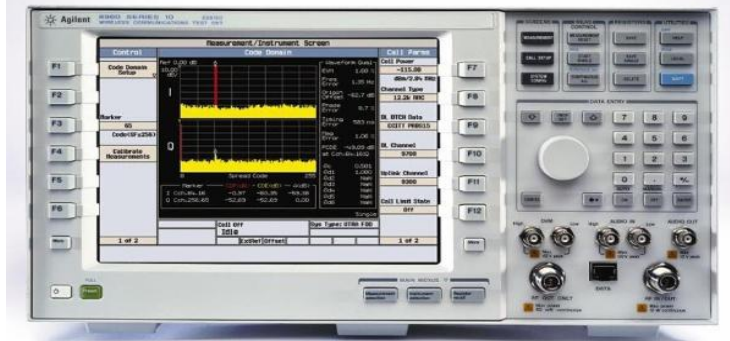




Customer	星辰互动
Antenna Model	K6139
Antenna Type	PCB Antenna
Prepared by	18814303605
Checked by	
Date :	2025. 10. 23

2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C



Purpose

This report is to measure the performance of antenna for **K6139** The antenna operating frequency at 2400MHz0-2500MHz 。 All test data are showed as below.

Content

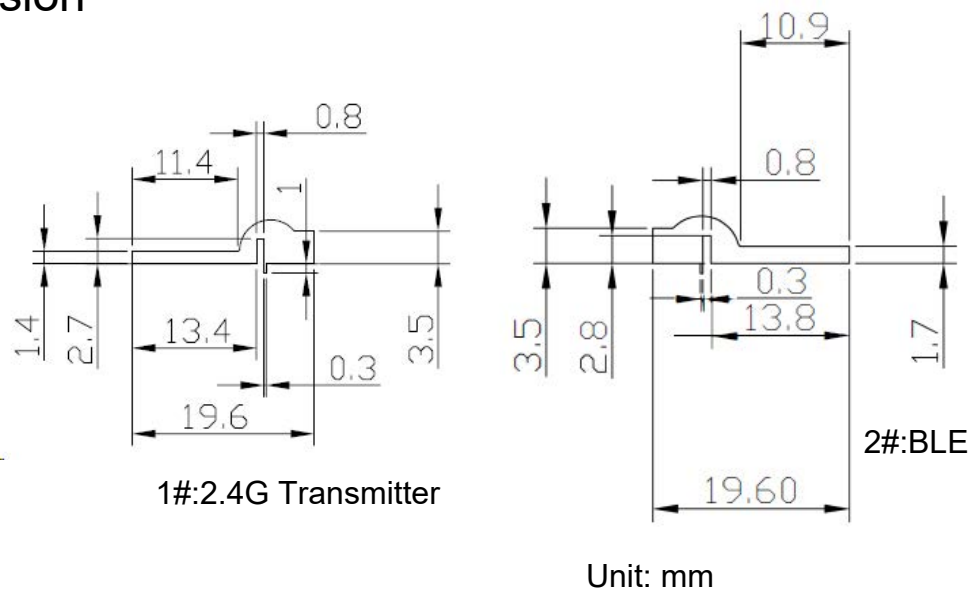
1. Product Overview & Dimension
2. Test system
3. Test Result

3.1 S11 Parameter

3.2 Gain & Efficiency

3.3 2D Pattern

4. OTA

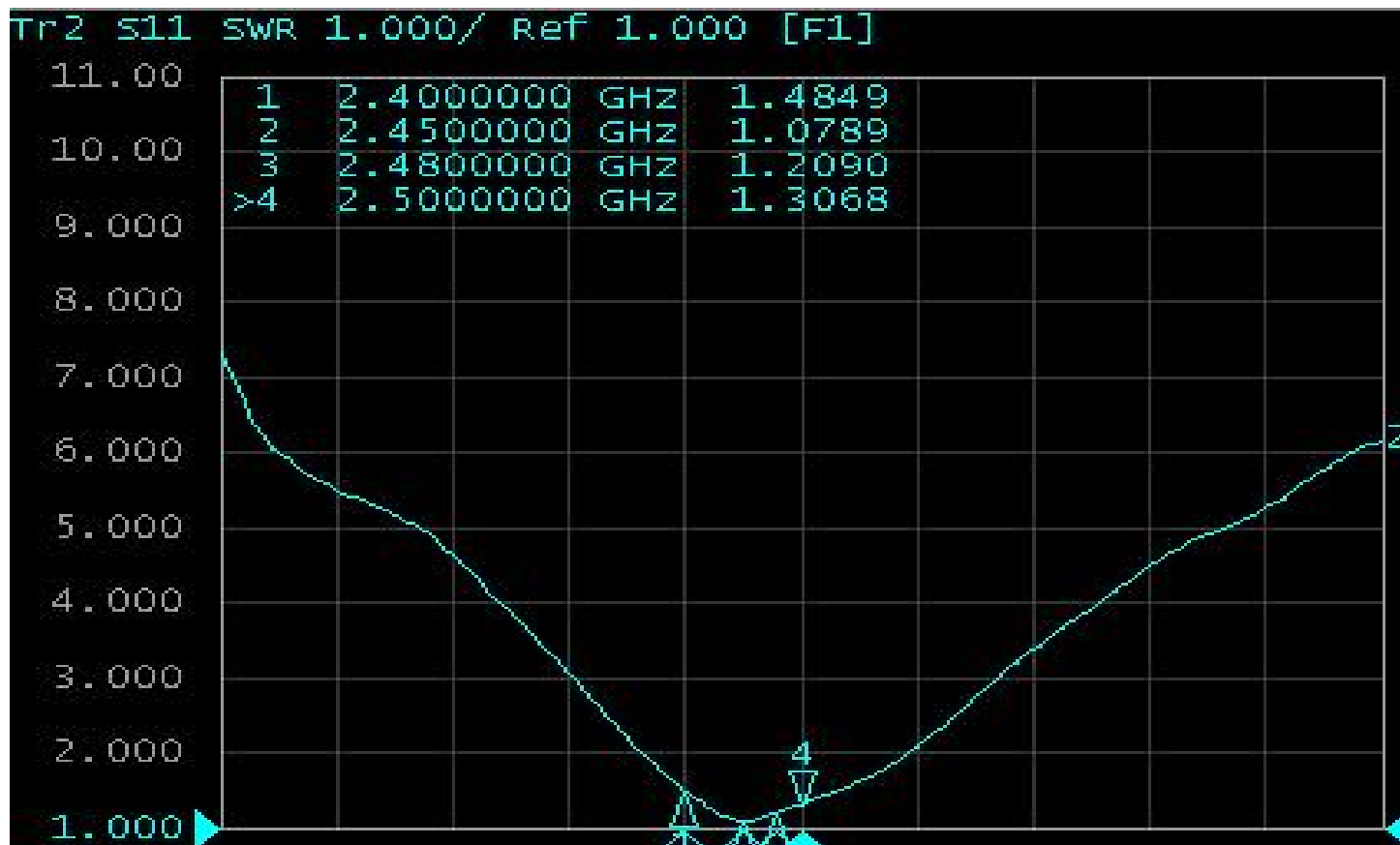


Manufacturer: Shenzhen Fuxiang Technology Co., Ltd.

Address: Building 11, Shapuwei Chuangye Industrial Zone, Songgang Town, Shenzhen, China

3.1 Test Result

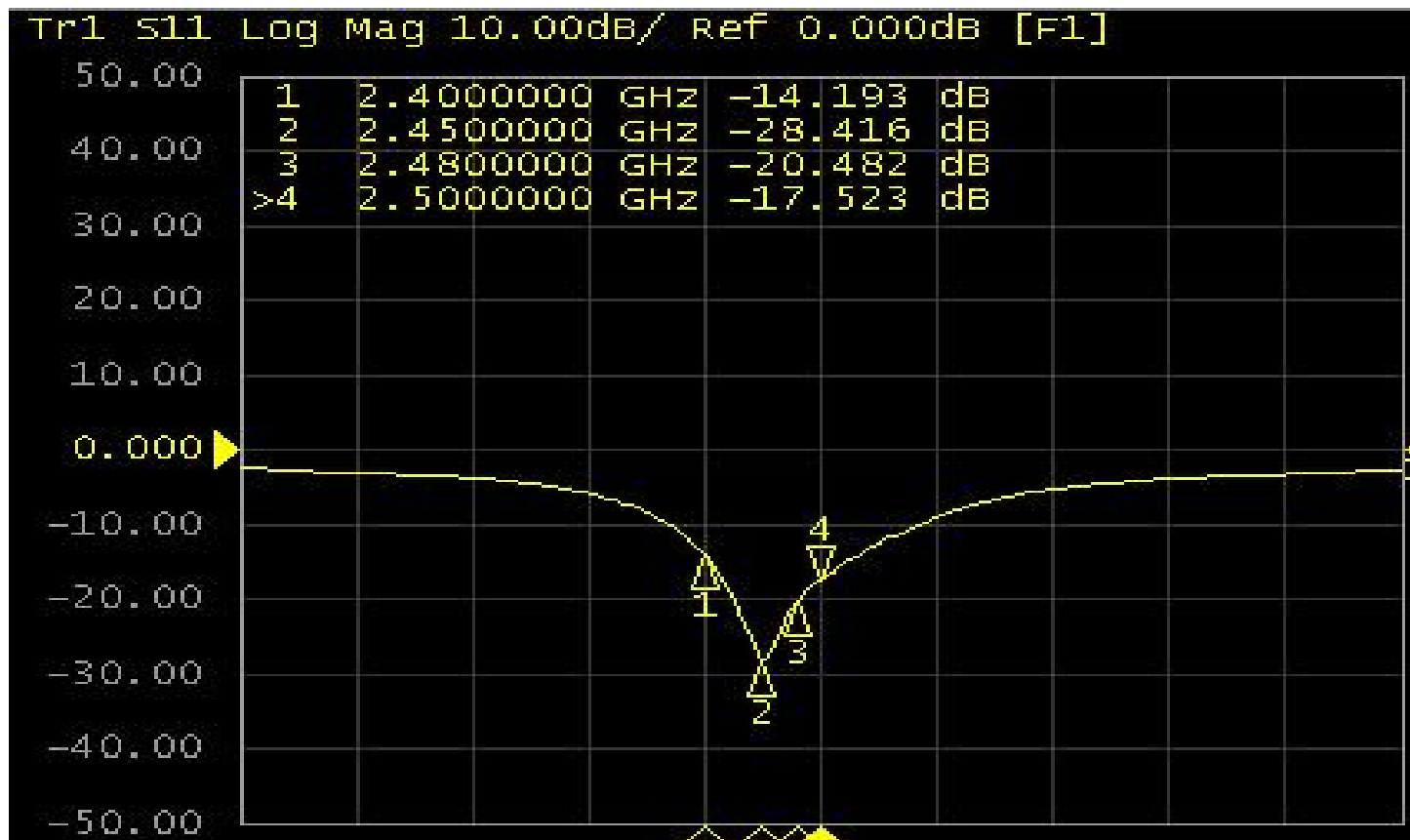
1.S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.48	1.07	1.20	1.30

3.1 Test Result

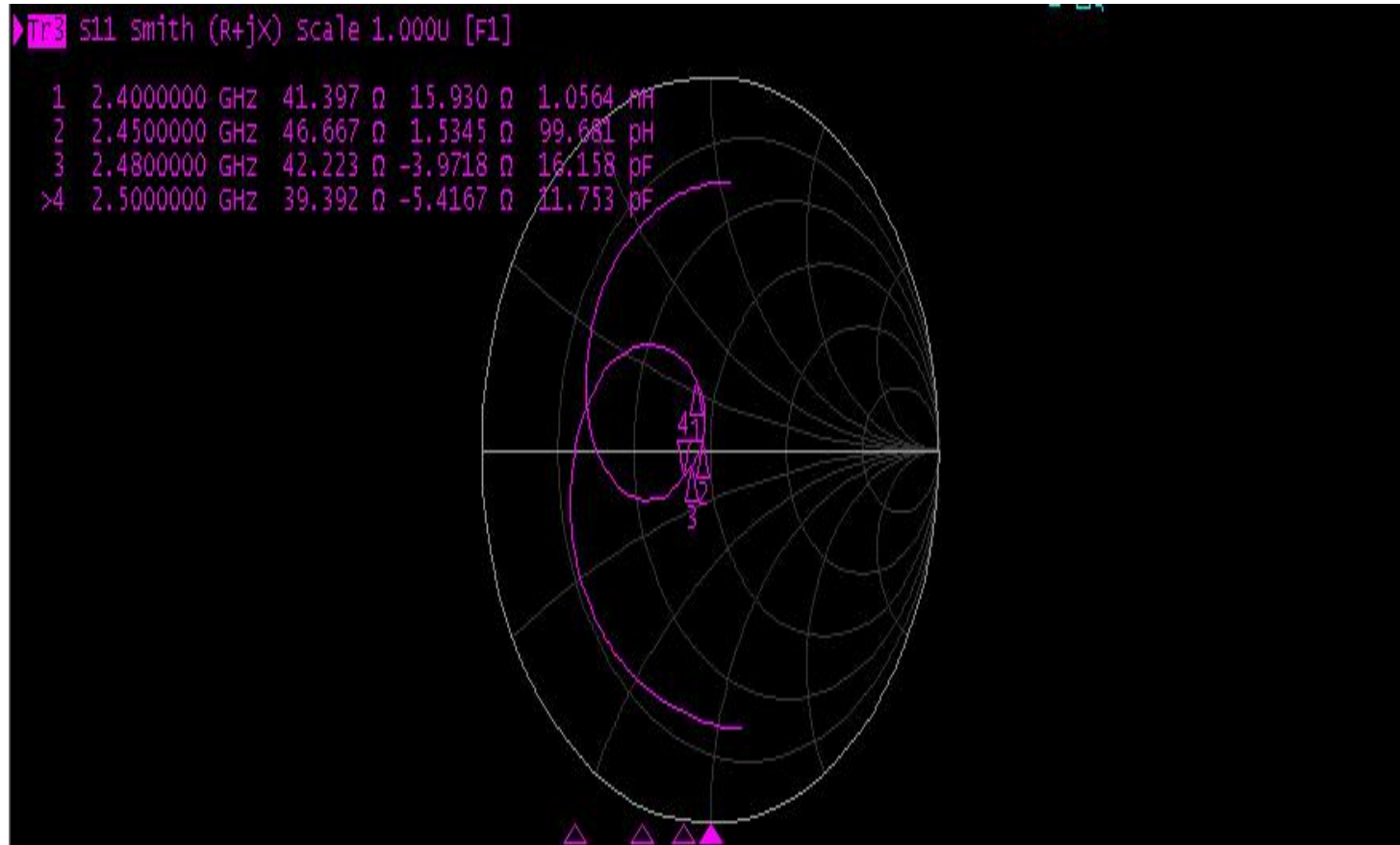
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-14.19	-28.41	-20.48	-17.52

3.1 Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	41.39	46.66	42.22	39.39

3.2 Test Result

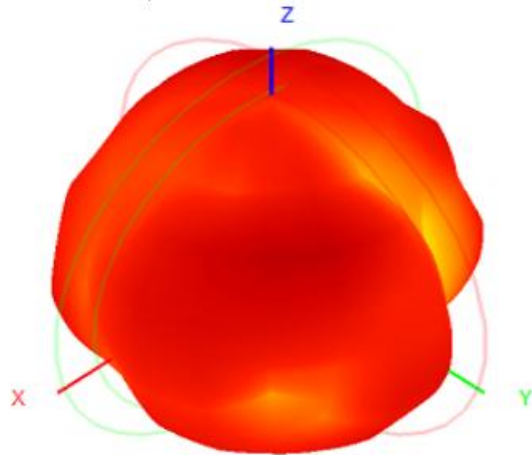
1 Gain & Efficiency——*ANT (2.4G Transmitter)*

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	62.10%	2.81
2410	62.26%	2.73
2420	62.40%	2.64
2430	62.41%	2.74
2440	62.17%	2.77
2450	62.43%	2.90
2460	61.97%	2.93
2470	61.50%	2.94
2480	61.27%	2.99

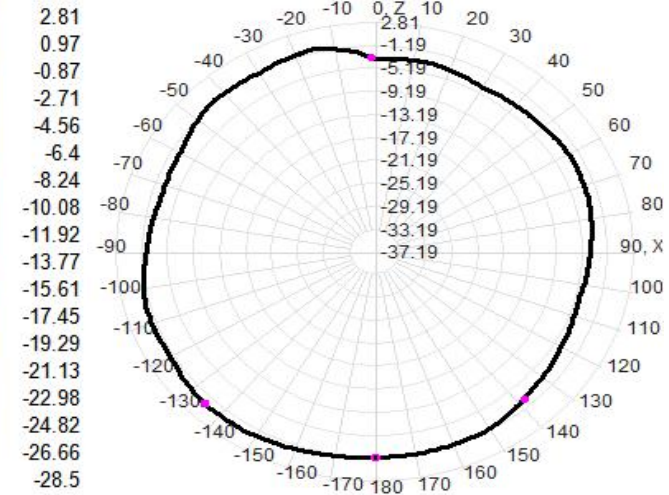
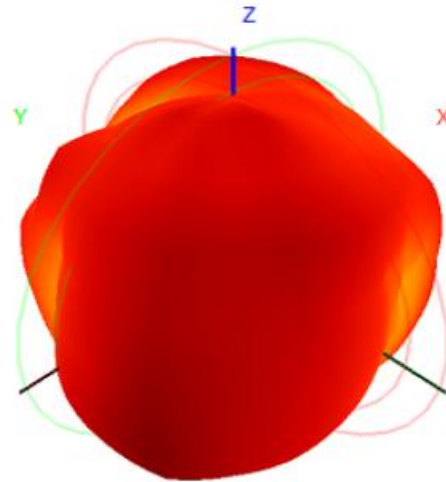
3.3 Test Result

1 2D Pattern—ANT

2400.0MHz Total, Eff. 62.1%



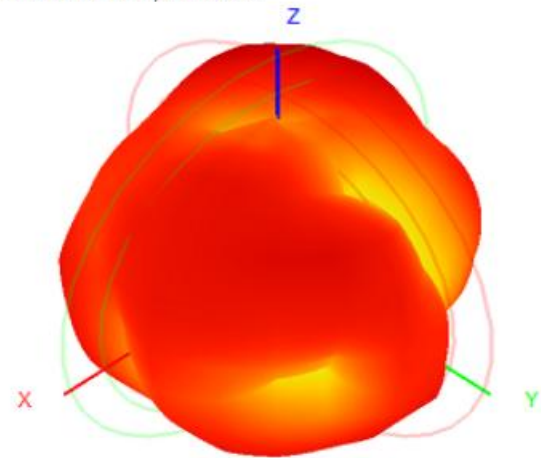
Back View



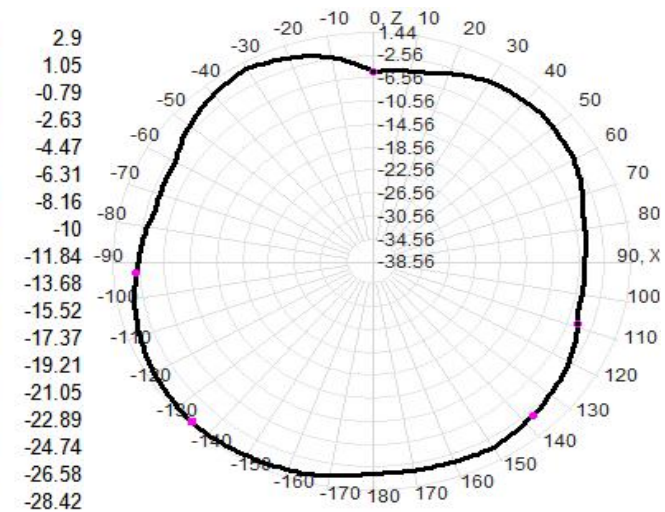
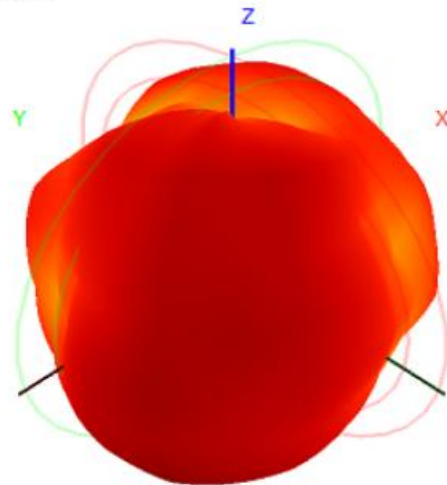
3.3 Test Result

2 2D Pattern—ANT

2450.0MHz Total, Eff. 62.4%



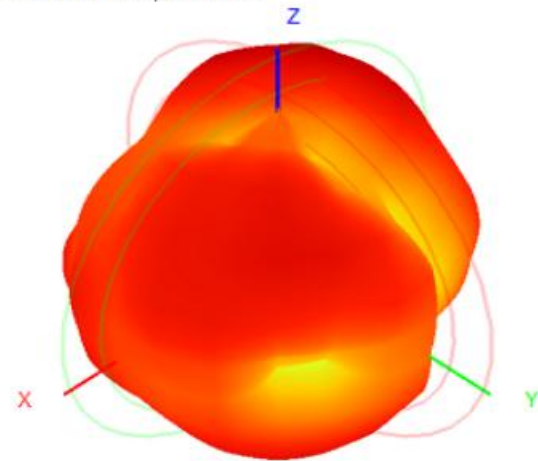
Back View



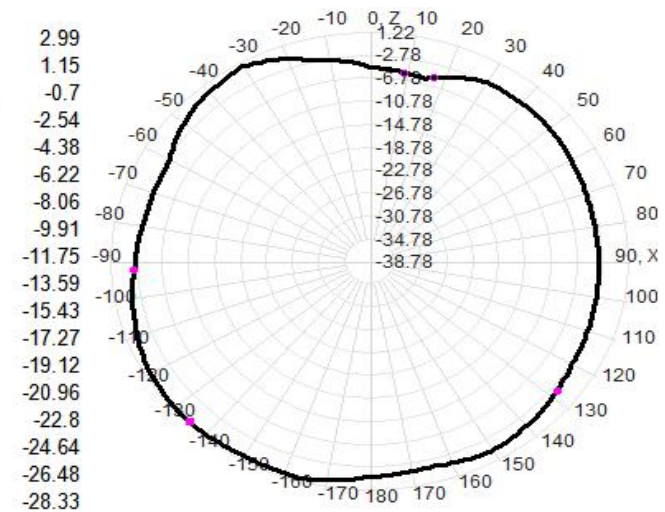
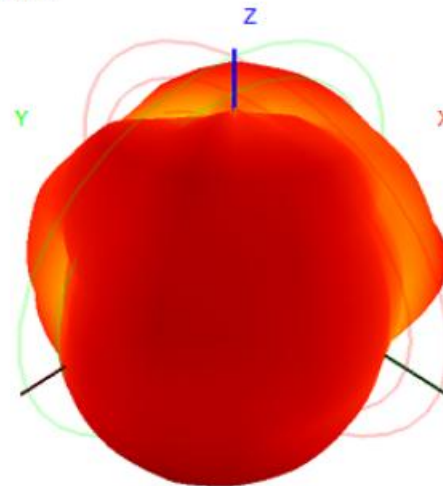
3.3 Test Result

3 2D Pattern—ANT

2480.0MHz Total, Eff. 61.3%

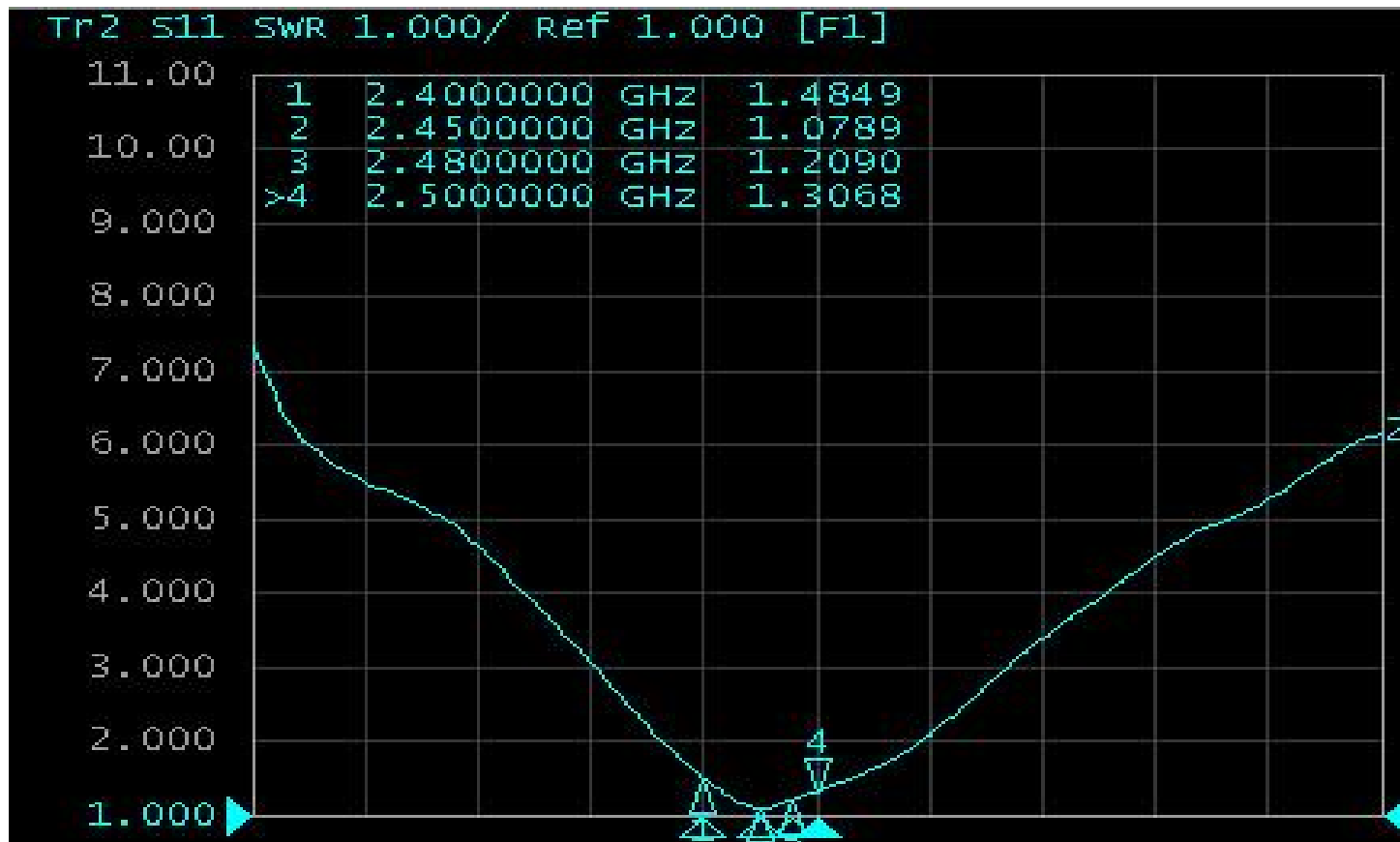


Back View



3.1 Test Result

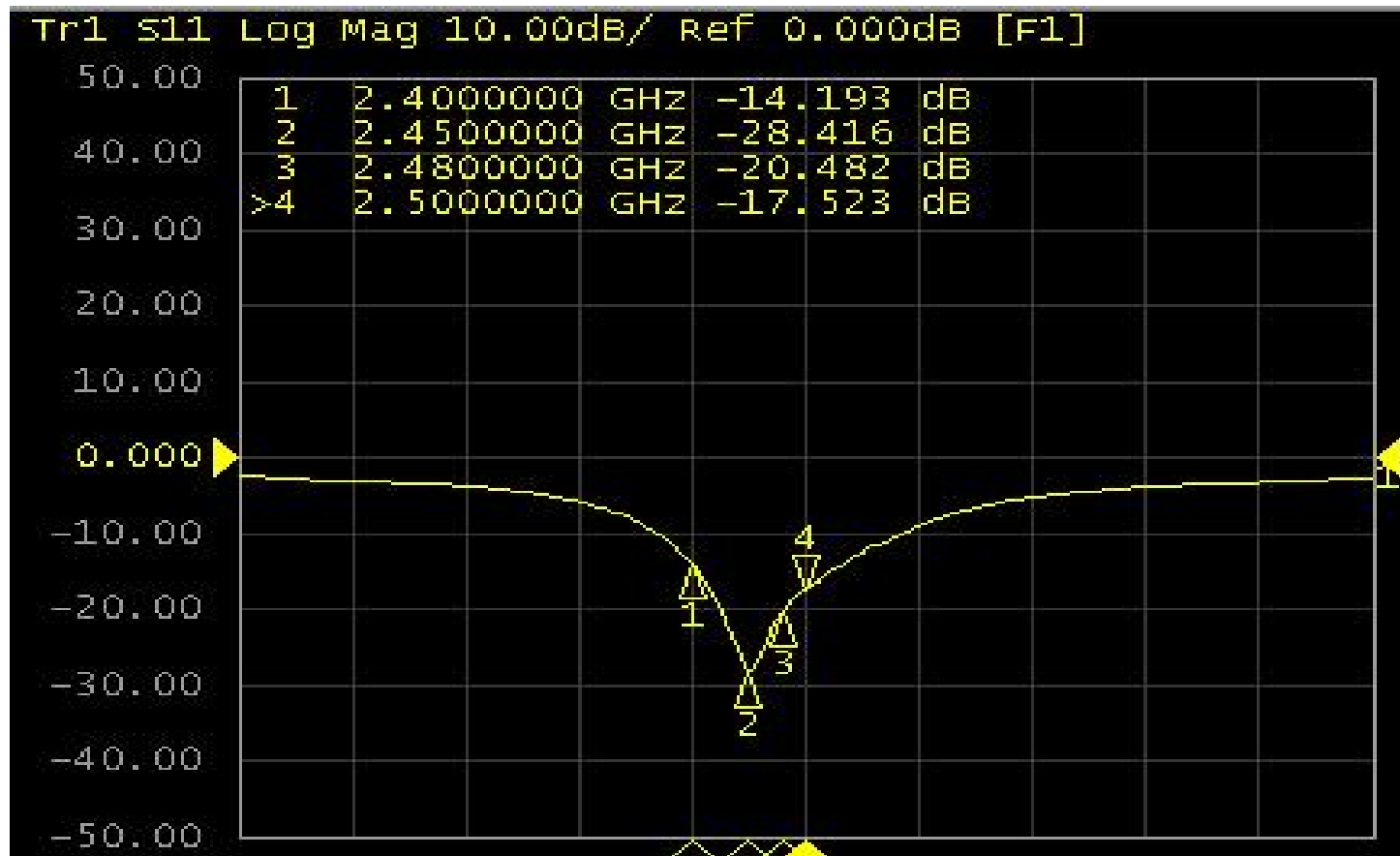
1 .S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.48	1.07	1.20	1.30

3.1 Test Result

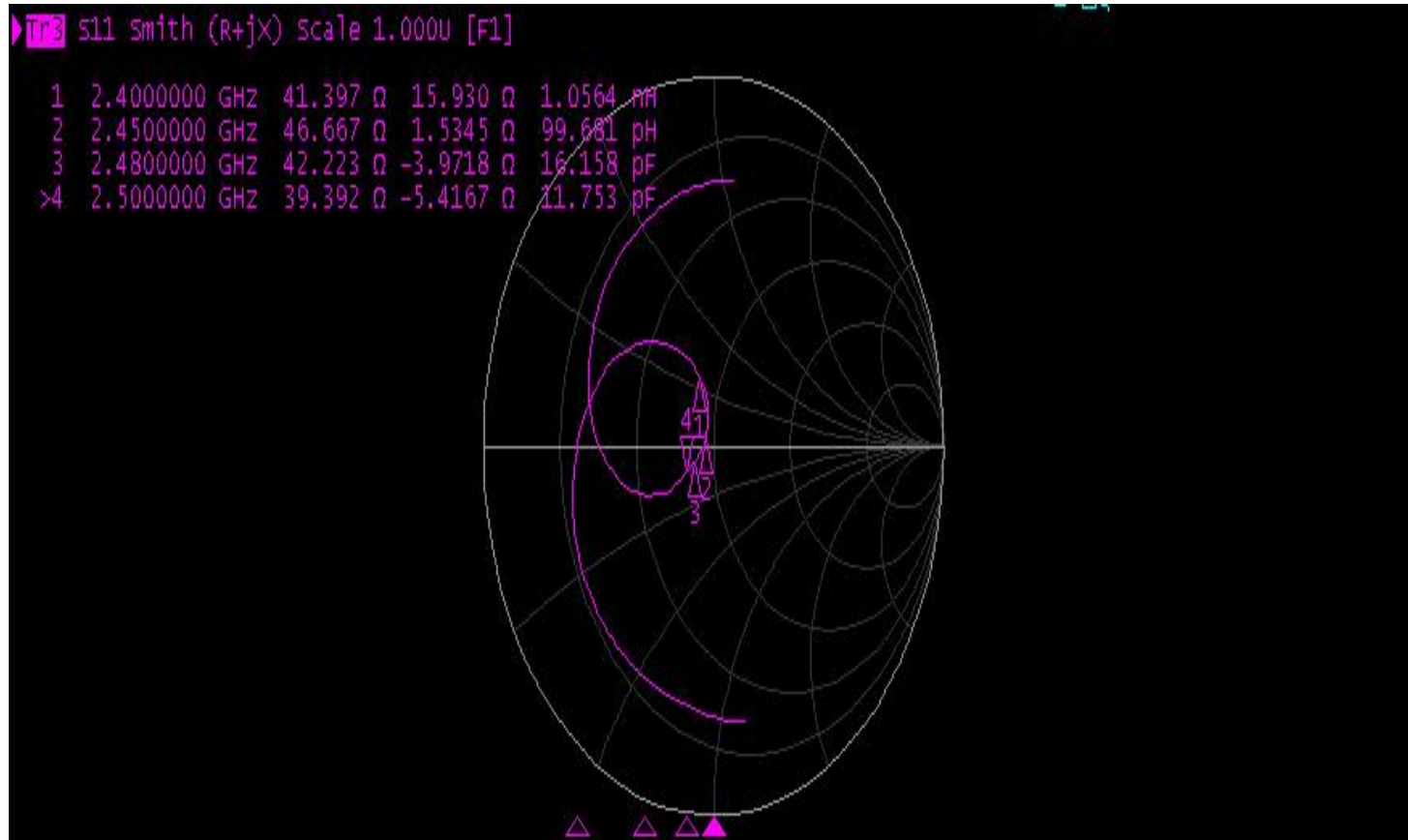
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-14.19	-28.41	-20.48	-17.52

3.1 Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	41.39	46.66	42.22	39.39

3.2 Test Result

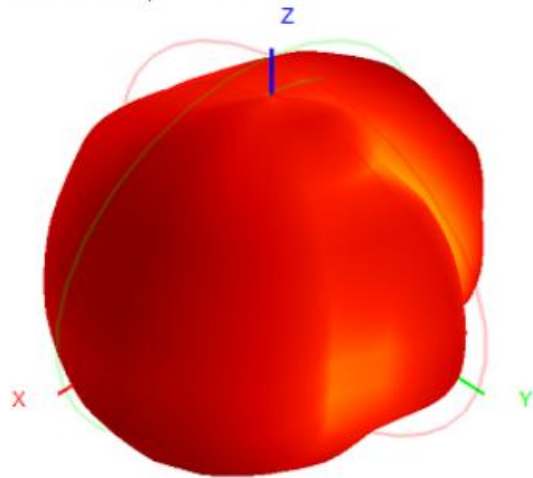
1 Gain & Efficiency——**ANT** (*BLE*)

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	59.20%	1.53
2410	58.81%	1.58
2420	58.40%	1.61
2430	58.17%	1.67
2440	58.20%	1.76
2450	58.71%	1.96
2460	58.82%	2.11
2470	59.02%	2.29
2480	59.43%	2.49

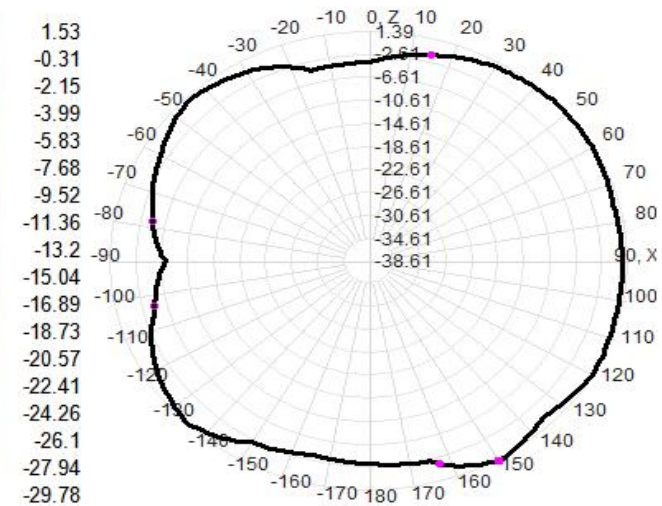
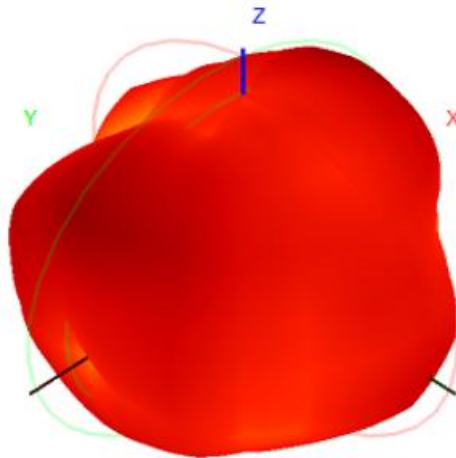
3.3 Test Result

1 2D Pattern——BTANT

2400.0MHz Total, Eff. 59.2%



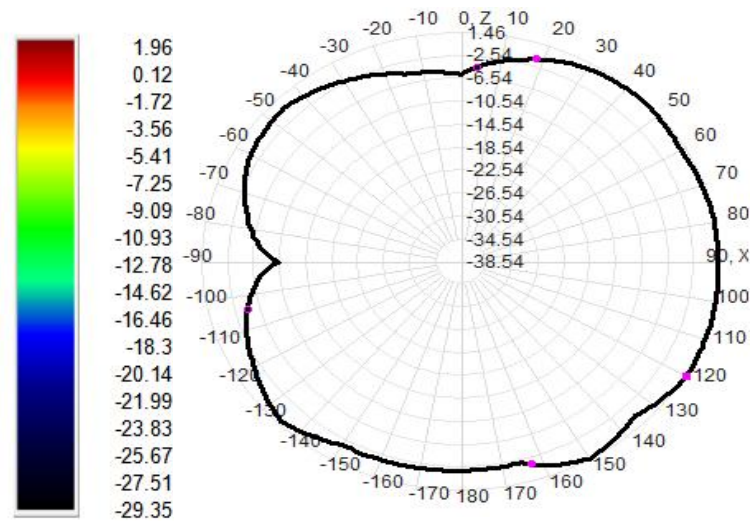
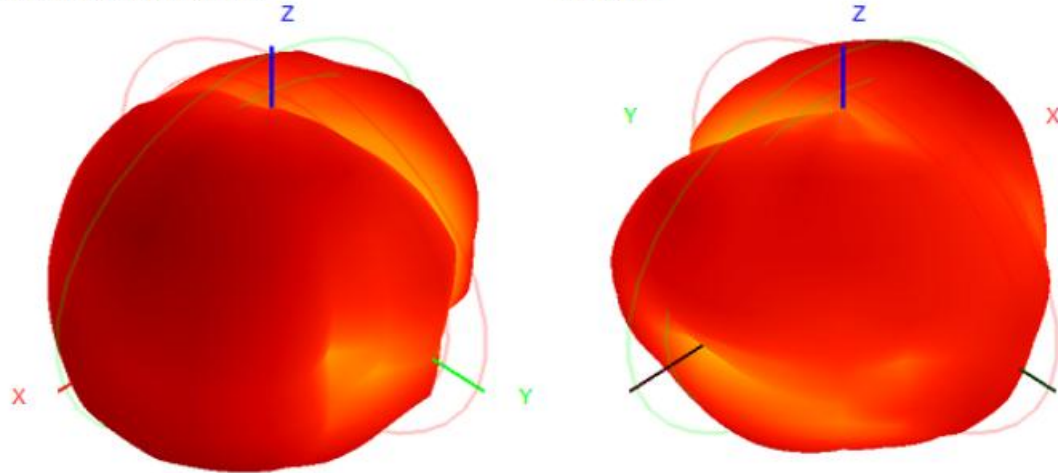
Back View



3.3 Test Result

2 2D Pattern—BTANT

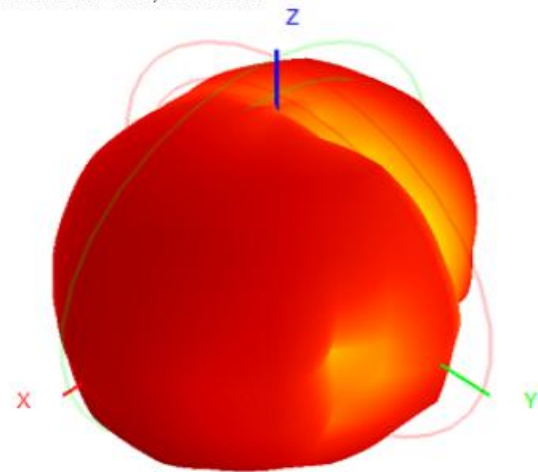
2450.0MHz Total, Eff. 58.7%



3.3 Test Result

3 2D Pattern—BTANT

2480.0MHz Total, Eff. 59.4%



Back View

