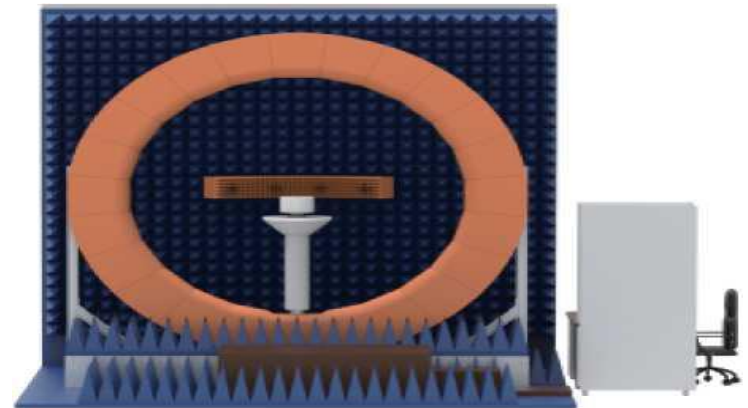
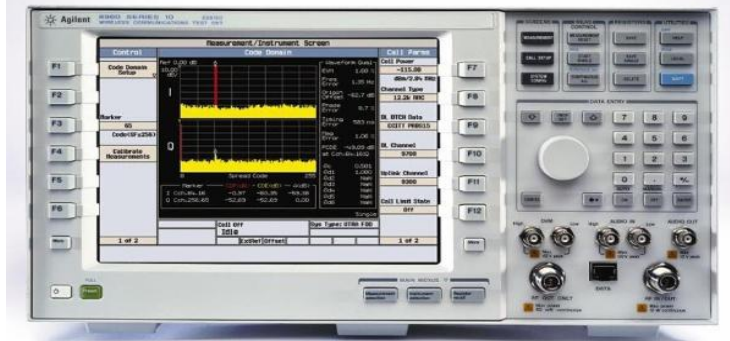




Customer	星辰互动
Antenna Model	K6139-dongle
Antenna Type	PCB Antenna
Prepared by	18814303605
Checked by	
Date :	2025. 10. 14

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-dongle**. The antenna operating frequency at 2400MHz-2500MHz. All test data are showed as below.

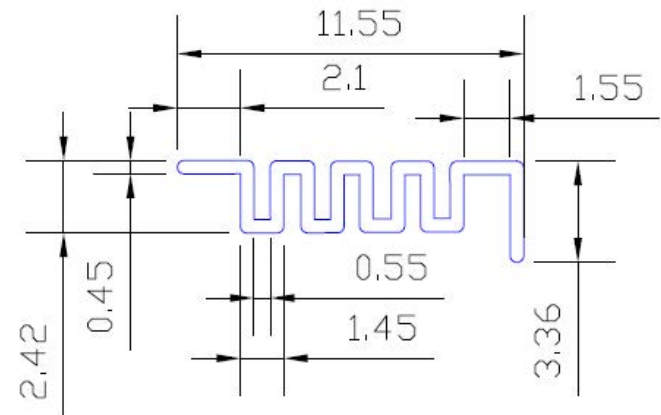
Content

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

3.1 S11 Parameter

3.2 Gain & Efficiency

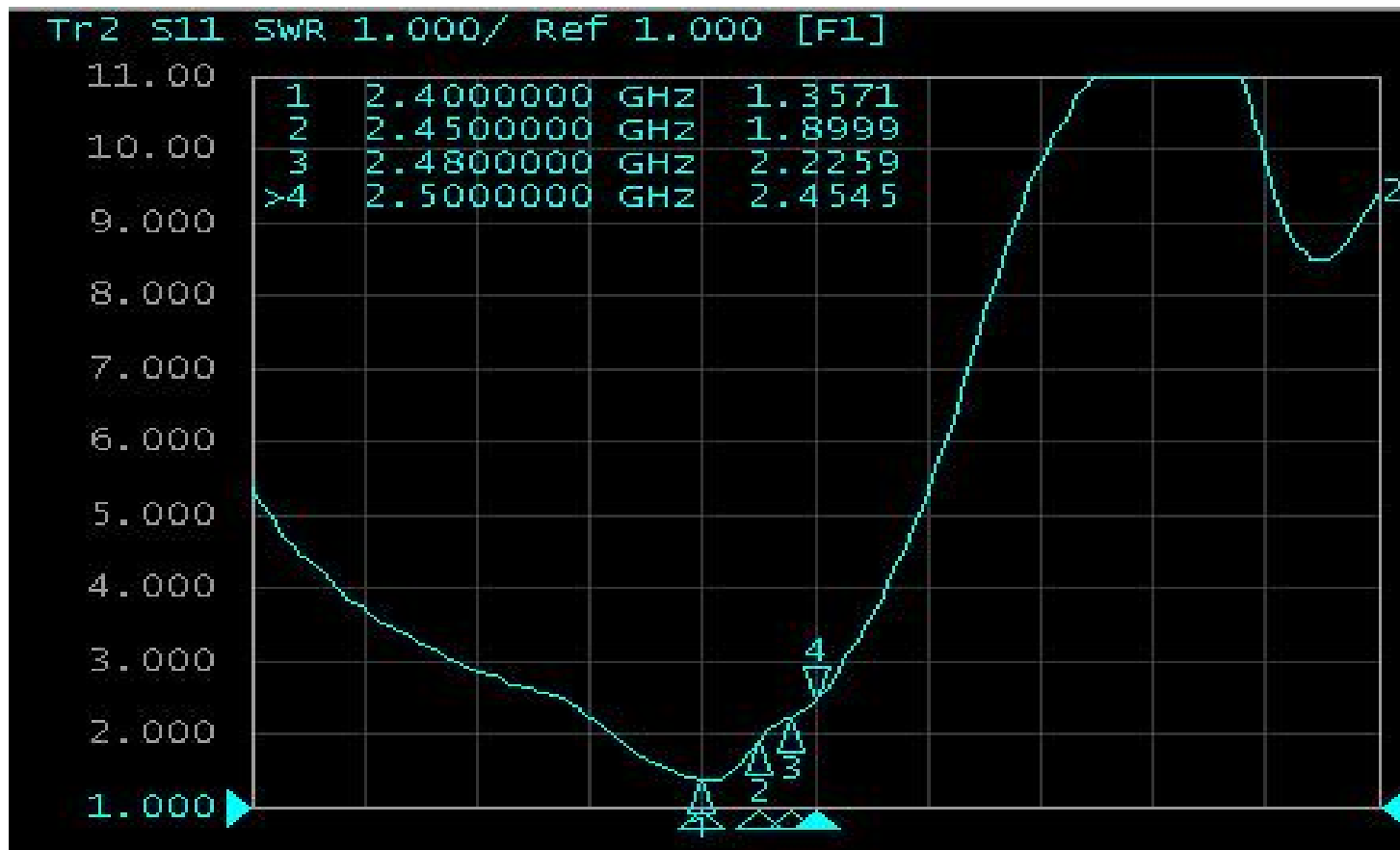
3.3 2D Pattern



Unit: mm

3.1 Test Result

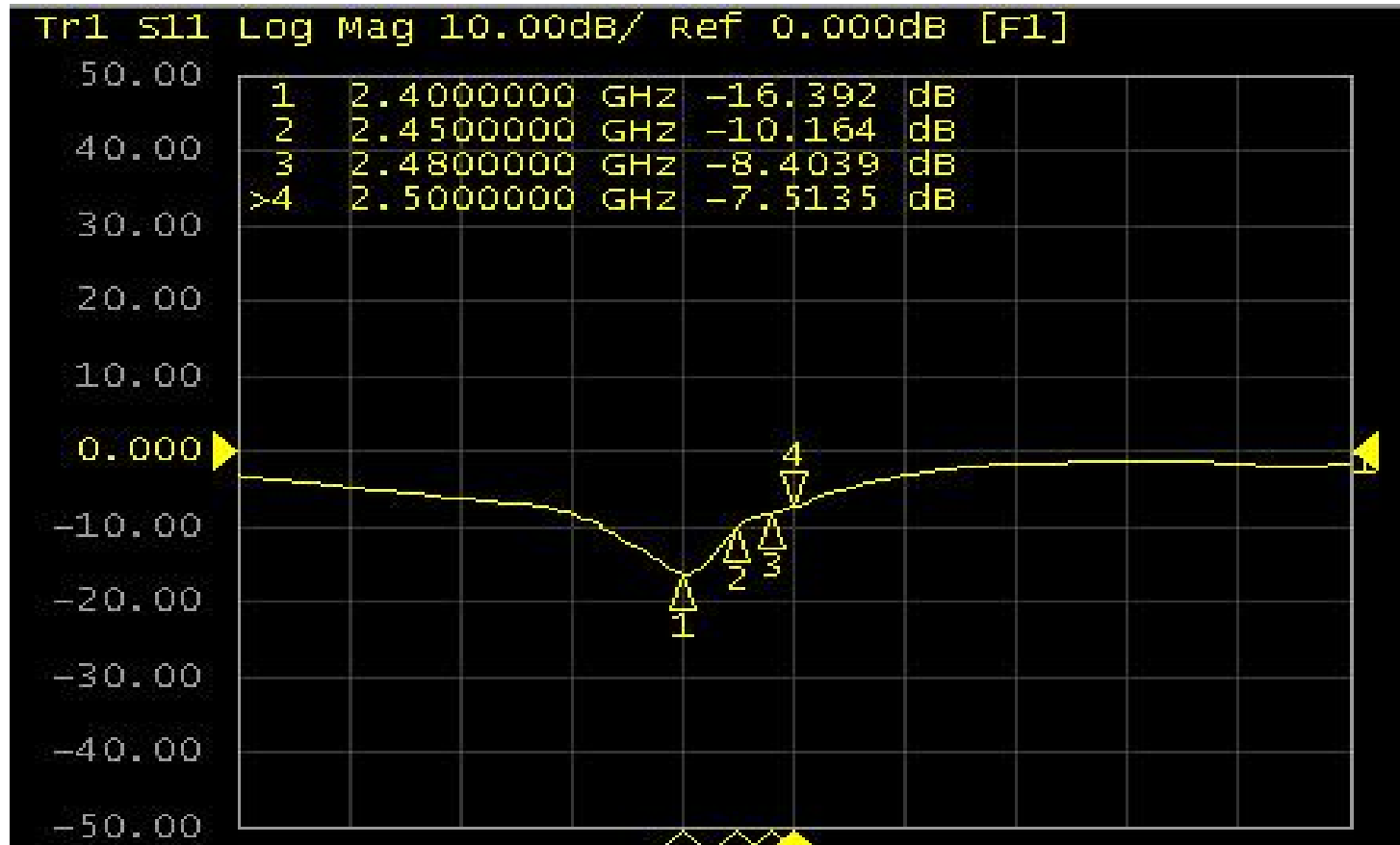
1 .S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.35	1.89	2.22	2.45

3.1 Test Result

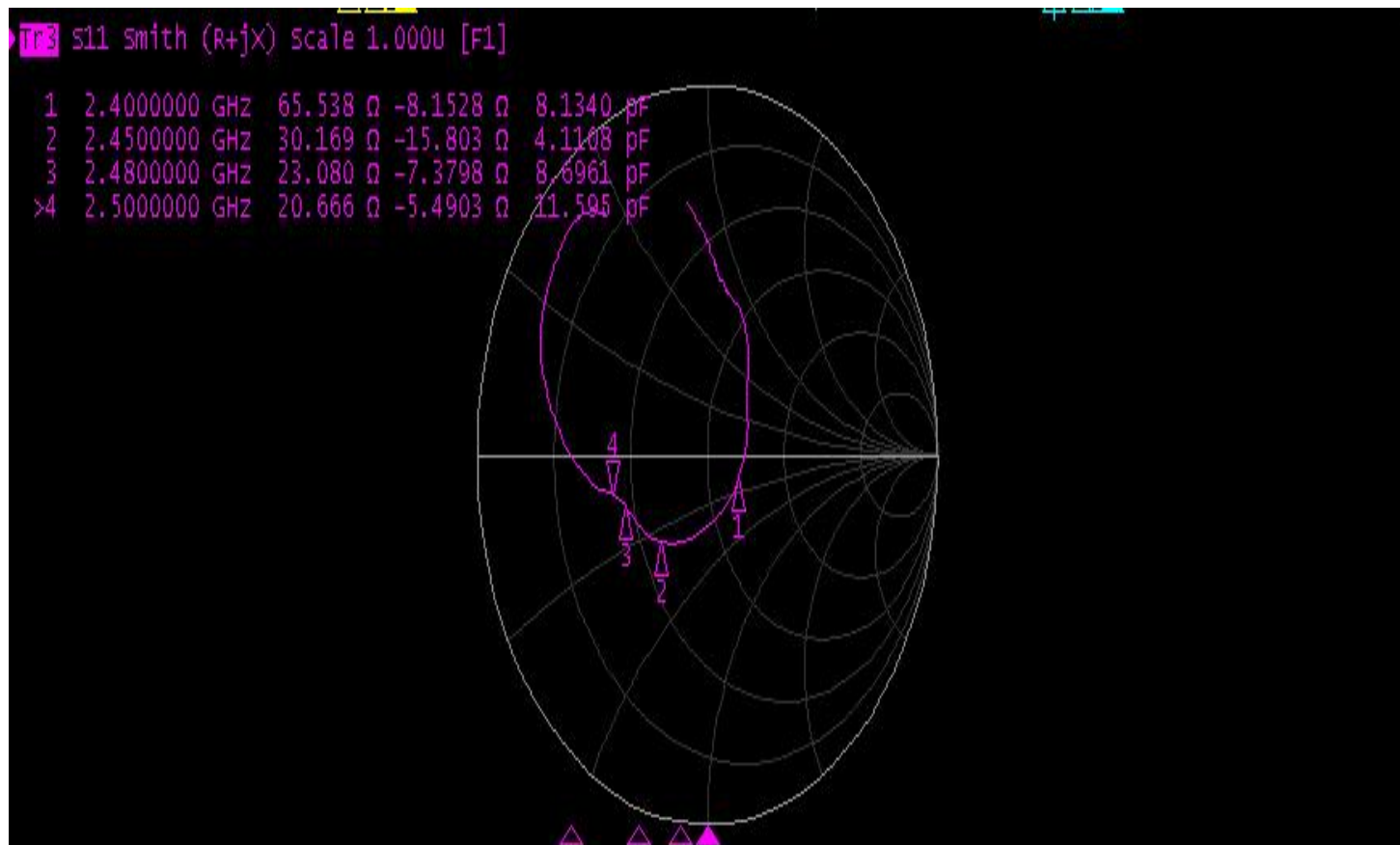
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-16.39	-10.16	-8.40	-7.51

3.1 Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smi th(Ω)	65.53	30.16	23.08	20.66

3.2 Test Result

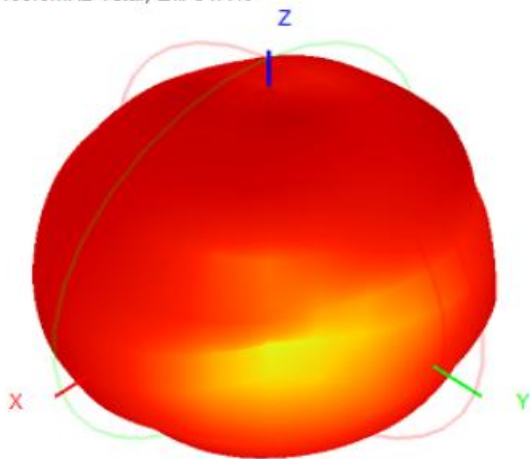
1 Gain & Efficiency—**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	51.38%	1.76
2410	48.33%	1.49
2420	45.06%	1.23
2430	41.92%	0.97
2440	37.88%	0.56
2450	35.33%	0.42
2460	34.06%	0.20
2470	35.47%	0.10
2480	37.49%	0.18

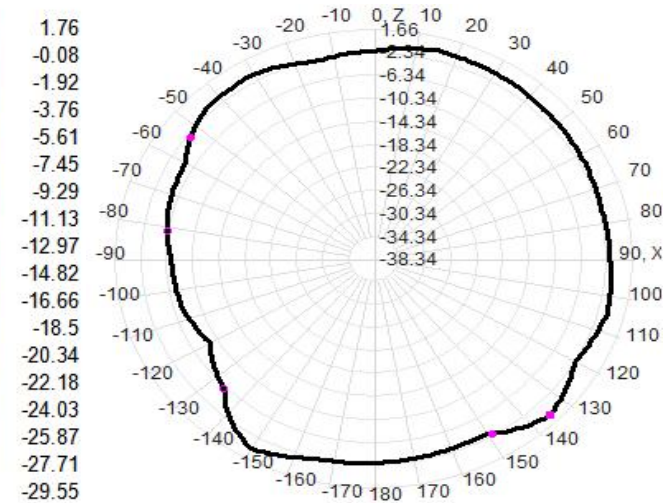
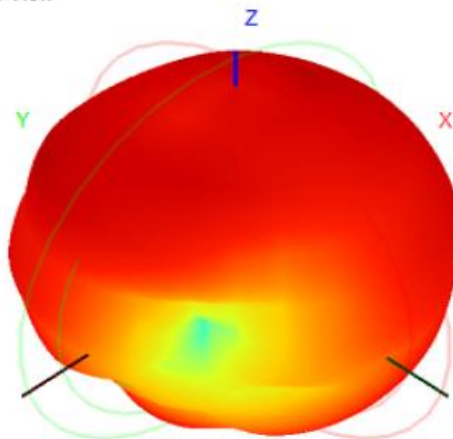
3.3 Test Result

1 2D Pattern——BTANT

2400.0MHz Total, Eff. 51.4%



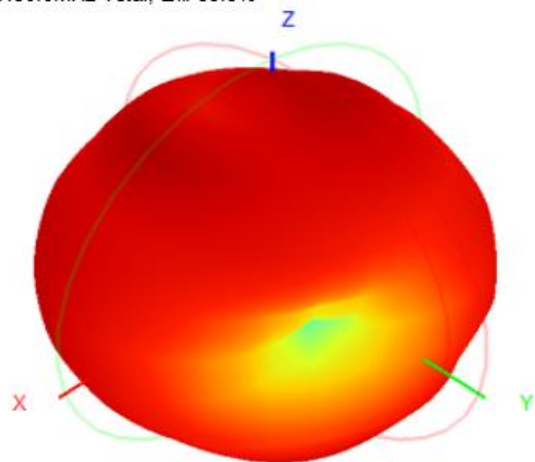
Back View



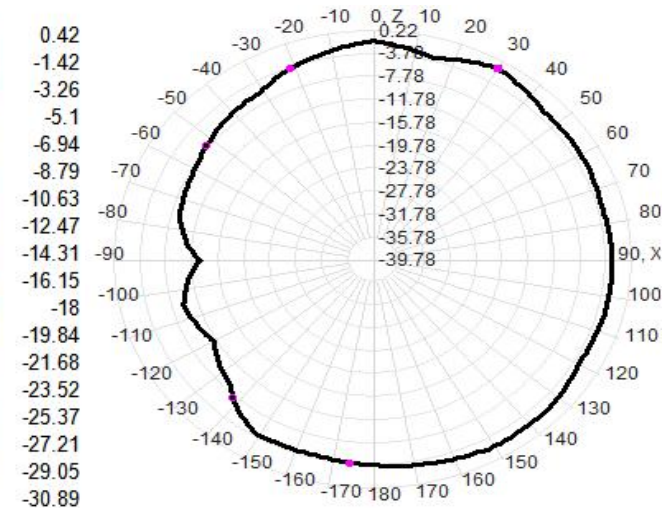
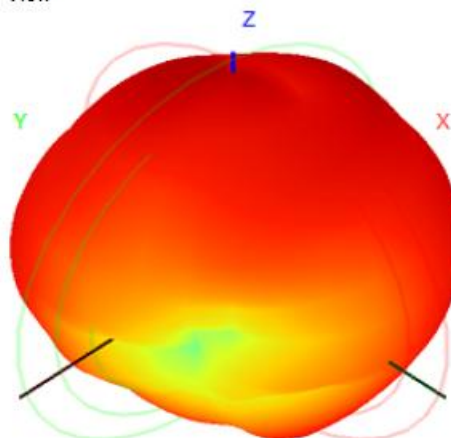
3.3 Test Result

2 2D Pattern—BTANT

2450.0MHz Total, Eff. 35.3%



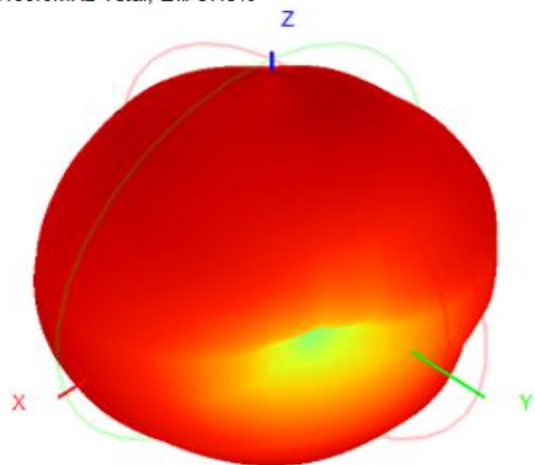
Back View



3.3 Test Result

3 2D Pattern—BTANT

2480.0MHz Total, Eff. 37.5%



Back View

