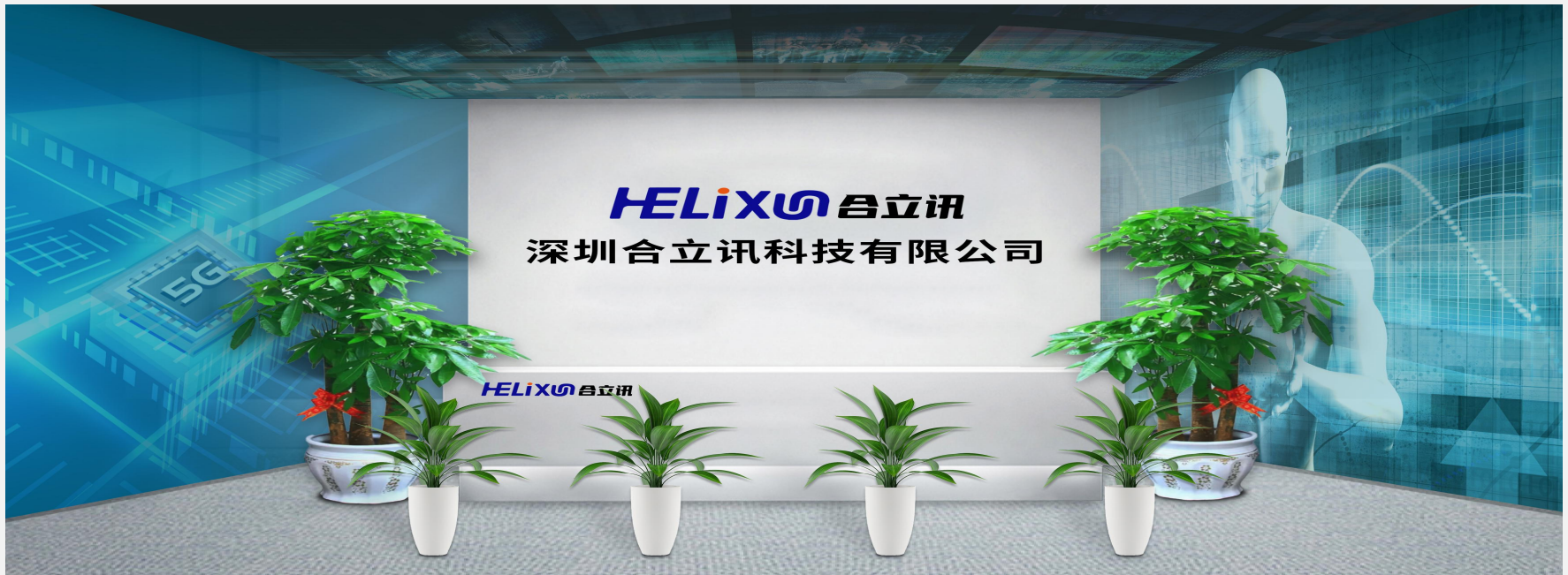


Antenna Test Report



Customer	雅刚电子（惠州）有限公司
Project	PCB Antenna
Antenna Revision	A0
Prepared by	18607523041
Checked by	17507525285
Date:	2023. 07. 21

Purpose

This report is to measure the performance of antenna for P C B Antenna Th e antenna operating frequency at 2400-2500MHz, All test data are showed as below.

Content

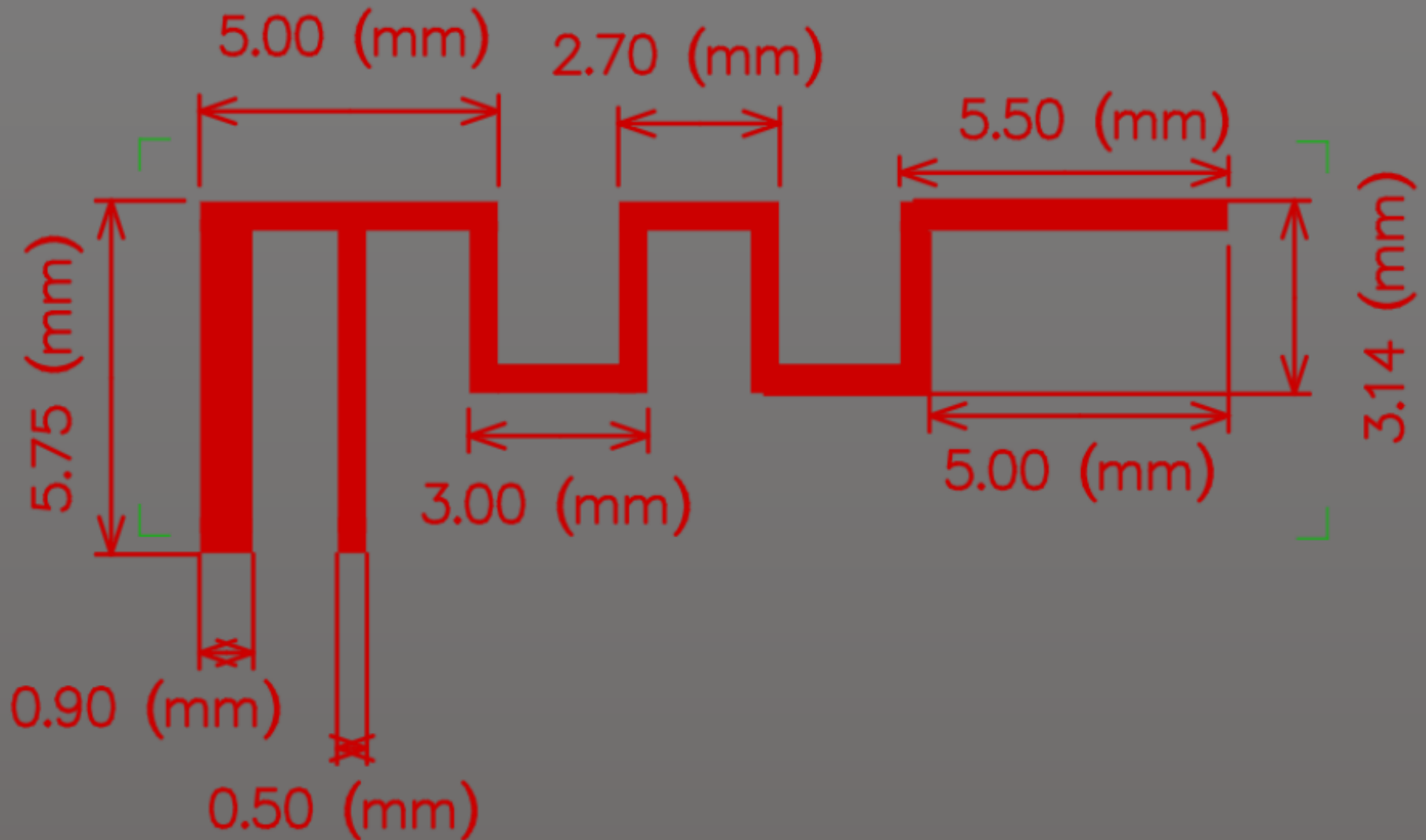
1. est system
- 2.Product Overview Dimension
3. Test Result
 - 3.1 S11 Parameter
 - 3.2 Gain & Efficiency
 - 3.3 2D Pattern

1. 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



2. Product Overview & Dimension



3.Test Result

3.1 S11 Parameter-VSWR



requeency (MHz)	2400	2450	2480	2500
VSWR	1.63	1.52	1.44	1.41

3. Test Result

3.1 S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-12.38	-13.67	-14.72	-15.27

3.Test Result

3.1 S11 Parameter-Smith

Tr3 S11 Smith (R+jX) Scale 1.000U [F1]

Point	Frequency (GHz)	Real (Ω)	Imag (Ω)	Capacitance (pF)
1	2.4000000	31.332	-5.9786	11.092
2	2.4500000	33.535	-5.4663	11.884
3	2.4800000	35.454	-5.9950	10.705
>4	2.5000000	36.661	-6.8004	9.3615



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	31.33	33.53	35.45	36.66

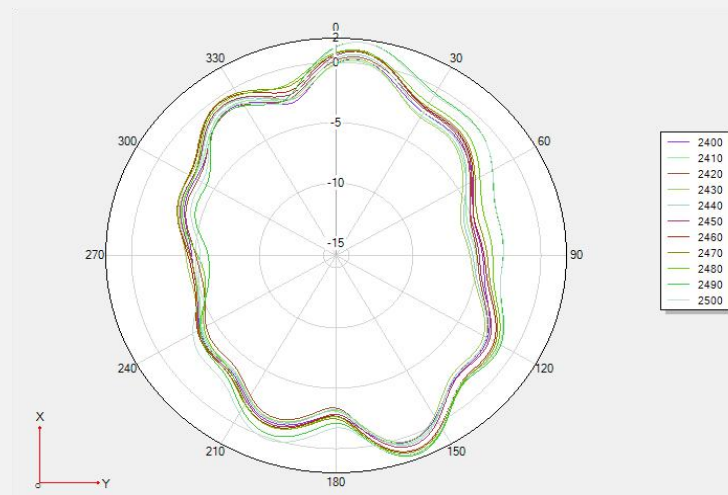
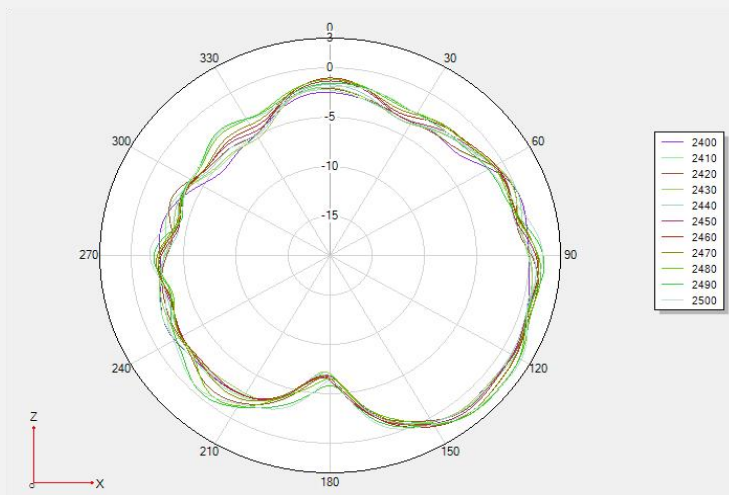
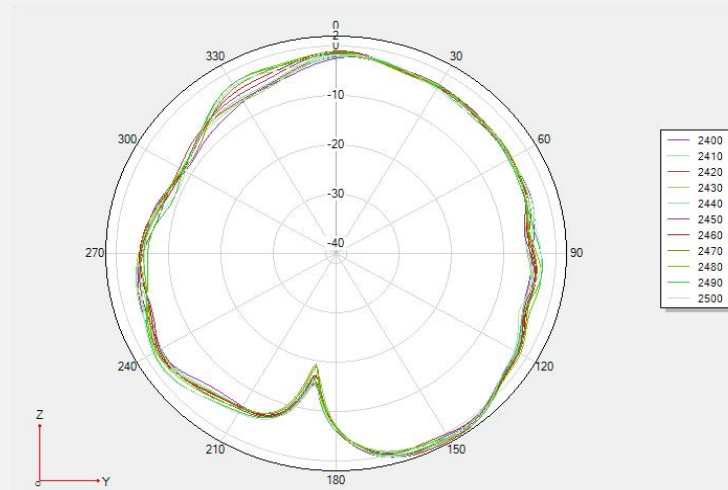
3. Test Result

3.2 Gain & Efficiency——**ANT**

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	55.85	-1.32
2410	57.02	-1.19
2420	56.89	-0.73
2430	56.49	-0.49
2440	57.15	-0.36
2450	59.29	0
2460	61.52	-0.28
2470	59.98	-0.34
2480	60.67	-0.39
2490	60.26	-0.47
2500	59.98	-0.78

3. Test Result

3.3 2D Pattern — BT ANT



Thank you!