

Antenna Type: PCB Ant (

Debugging frequency: GFSK

band: 2400-2500MHz

Gain: 2.32dBi

Antenna manufacturer Name: SHENZHENFUXIANGTECHNOLOGYCOLTD

Antenna manufacturer Address: 11 BLDG, PIONEER INDUSTRY ZONE SHAPUWEI SONGGANG

SHENZHEN, GUANGDONG 518105 CHINA

Purpose

This report is to measure the performance of antenna for V987 The antenna operating frequency at 2400-2500MHz, All test data

are showed as below

Content

1. est system

2. Product Overview

Dimension

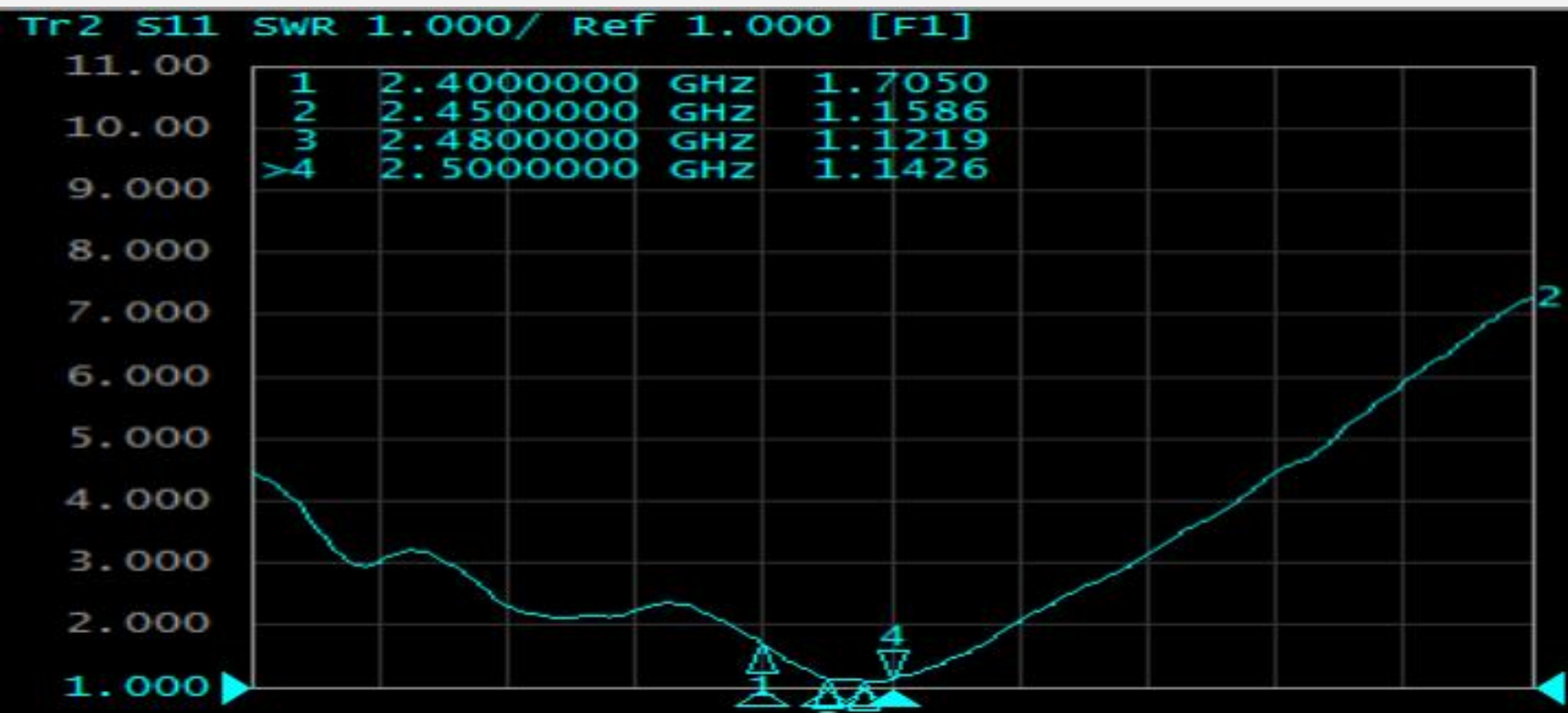
3. Test Result

3.1 S11 Parameter 3.2 Gain

& Efficiency 3.3 2D Pattern

3.Test Result

3.1 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.70	1.15	1.12	1.14

3. Test Result

3.1 S11 Parameter-Log Mag

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]

50.00
40.00
30.00
20.00
10.00
0.000
-10.00
-20.00
-30.00
-40.00
-50.00

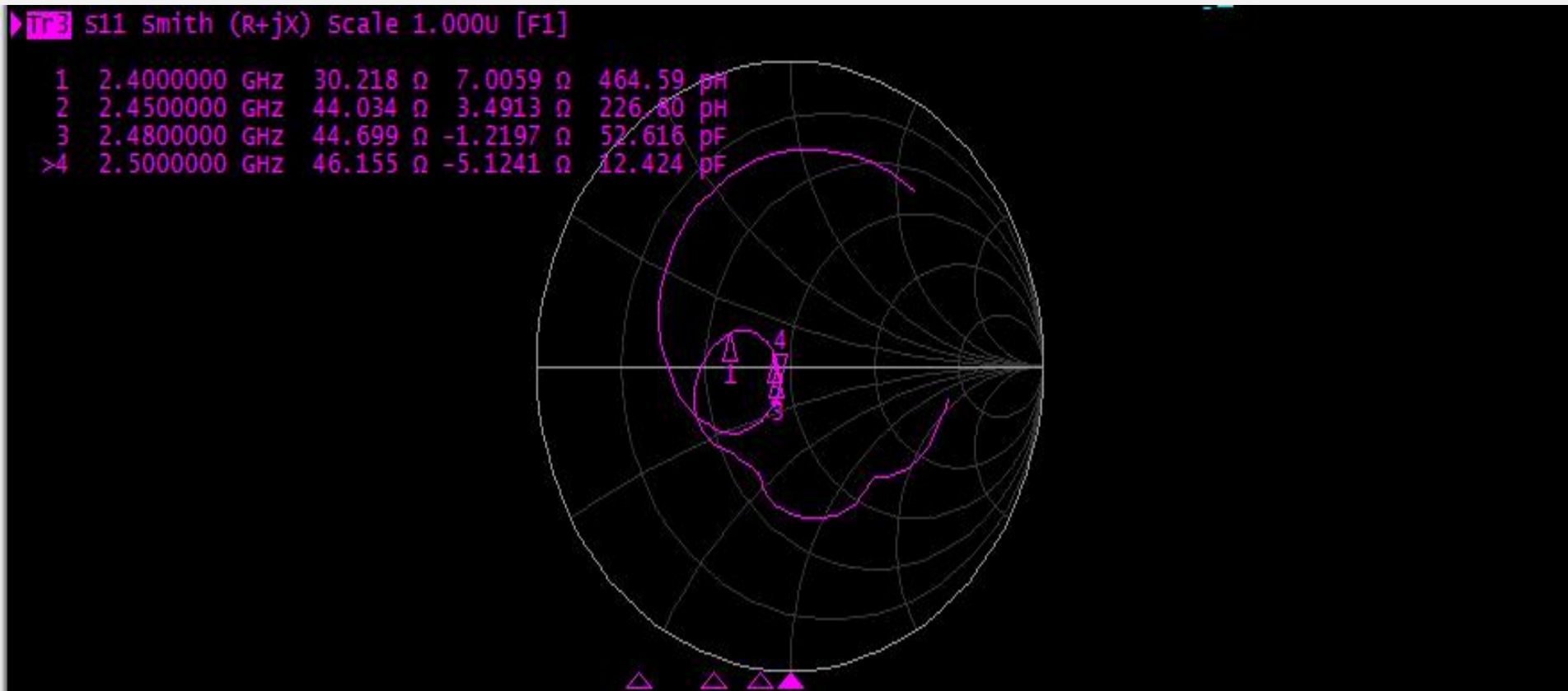
1	2.4000000	GHZ	-11.680	dB
2	2.4500000	GHZ	-22.679	dB
3	2.4800000	GHZ	-24.817	dB
>4	2.5000000	GHZ	-23.539	dB



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-11.68	-22.67	-24.81	-23.53

3.Test Result

3.1 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
Smi th(Ω)	30.21	44.03	44.69	46.15

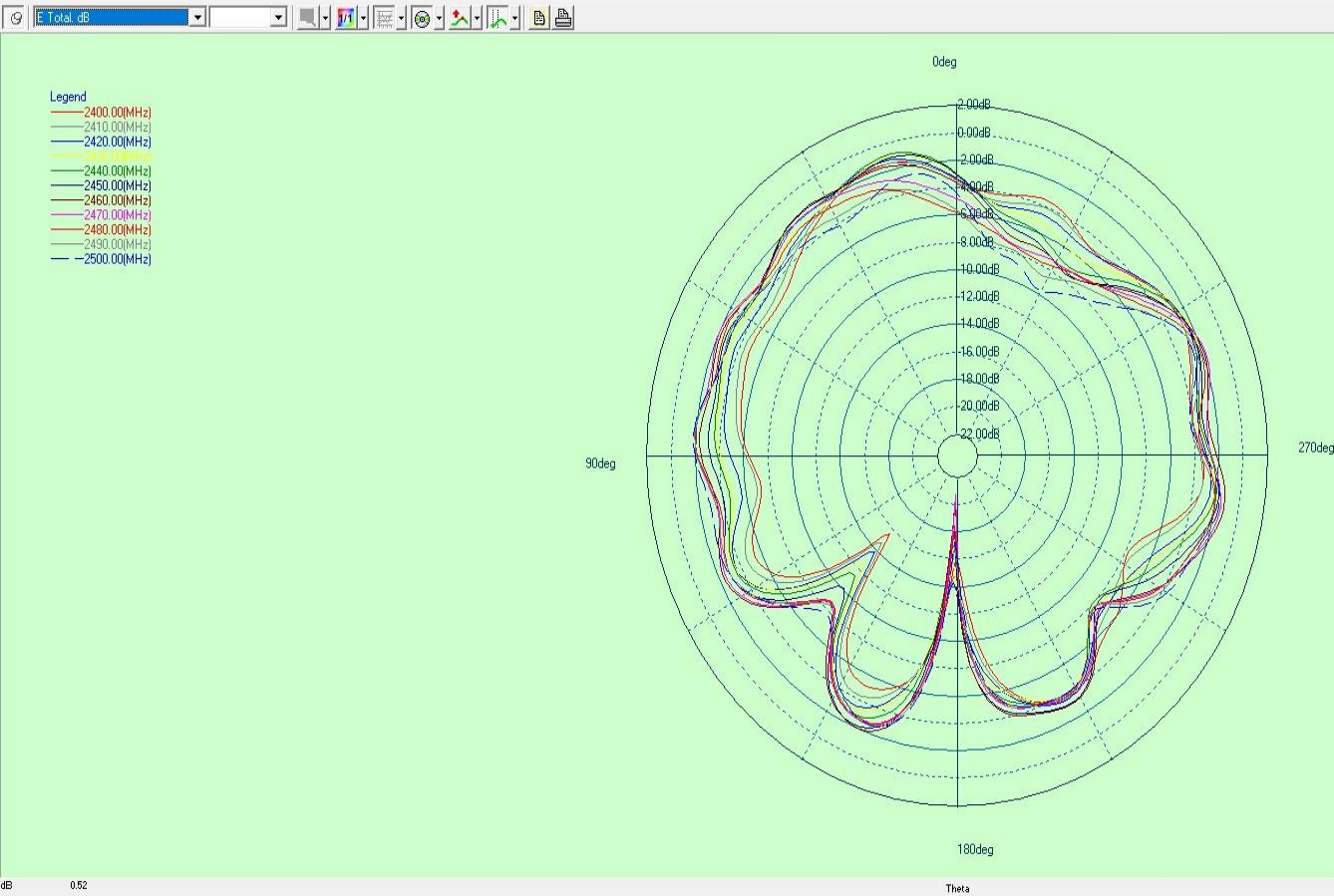
3.Test Result

3.2 Gain & Efficiency—**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	52.01%	1.47
2410	52.90%	1.51
2420	52.60%	2.16
2430	51.30%	2.16
2440	50.40%	2.32
2450	50.90%	2.27
2460	51.20%	2.15
2470	52.20%	2.29
2480	53.01%	2.20
2490	54.70%	2.20
2500	55.20%	2.23

3. Test Result

3.3 2D Pattern——BT ANT



X-Z Plane

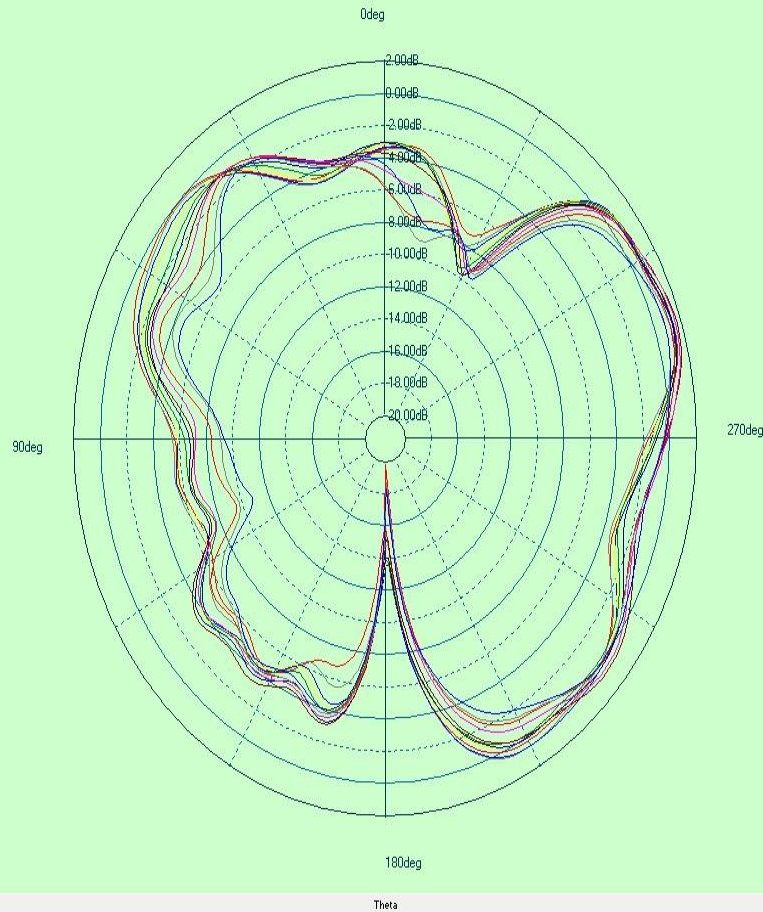
3. Test Result

3.3 2D Pattern——BT ANT



Legend

2400.00(MHz)
2410.00(MHz)
2420.00(MHz)
2430.00(MHz)
2440.00(MHz)
2450.00(MHz)
2460.00(MHz)
2470.00(MHz)
2480.00(MHz)
2490.00(MHz)
2500.00(MHz)



Y-Z Plane

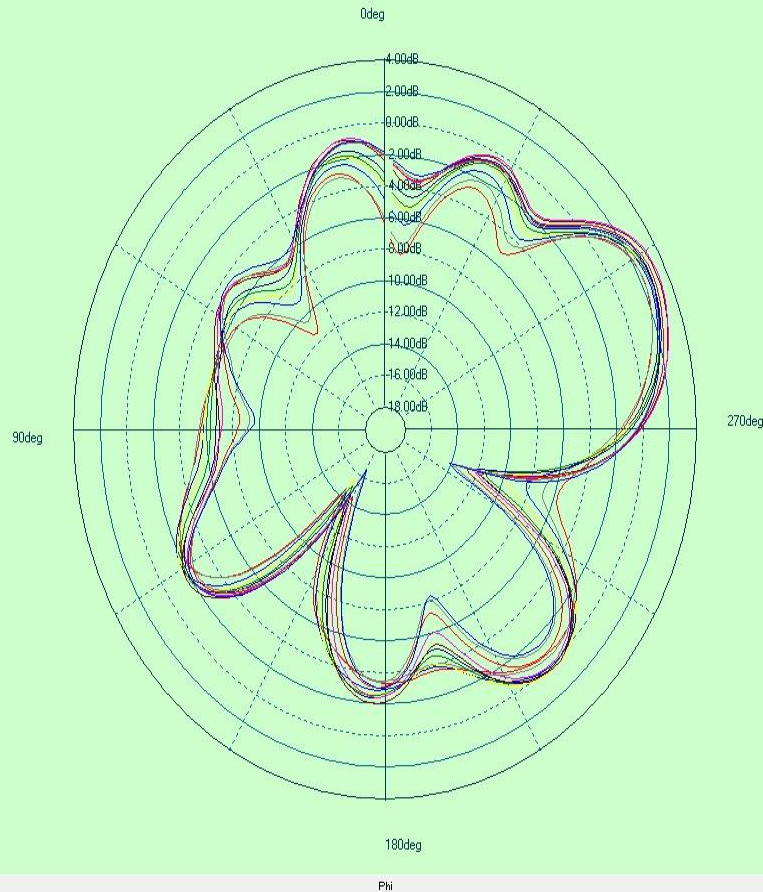
3. Test Result

3.3 2D Pattern——BT ANT



Legend

—2400.00(MHz)
—2410.00(MHz)
—2420.00(MHz)
—2440.00(MHz)
—2450.00(MHz)
—2460.00(MHz)
—2470.00(MHz)
—2480.00(MHz)
—2490.00(MHz)
—2500.00(MHz)



Y-Z Plane

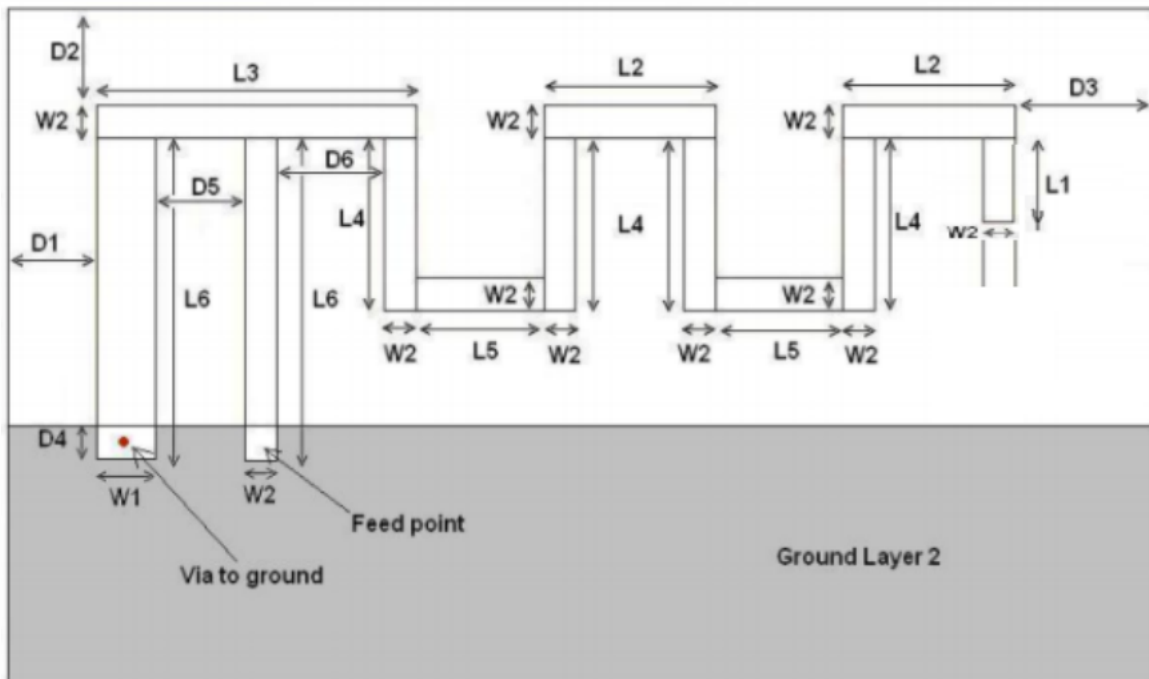


Figure 3: Antenna Dimensions

L1	1.07mm
L2	2.70 mm
L3	5.00 mm
L4	2.64 mm
L5	2.00 mm
L6	4.39 mm
W1	0.90 mm
W2	0.50 mm
D1	0.50 mm
D2	0.30 mm
D3	0.30 mm
D4	0.50 mm
D5	1.40mm
D6	1.70 mm

Table 1: Antenna Dimensions