

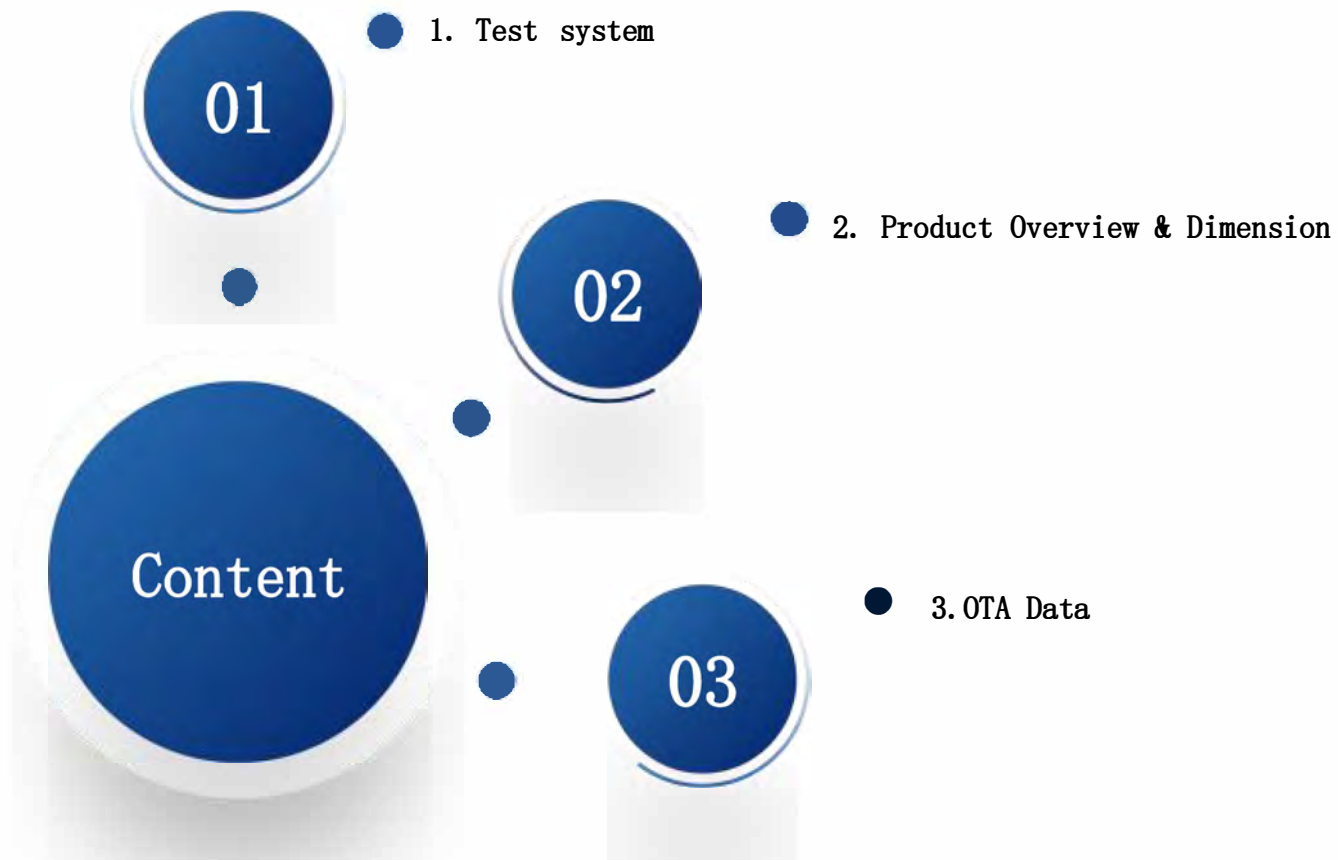


Customer	Suding
Project	CPFN101C
Antenna Revision	A0
Prepared by	18814451402
Checked by	17279710721
Date	2025. 05. 09

No. 1903, Building 2, Jiagong Square, Tiezi Road, Gongle Community,
Xixiang Subdistrict, Bao'an District, Shenzhen City

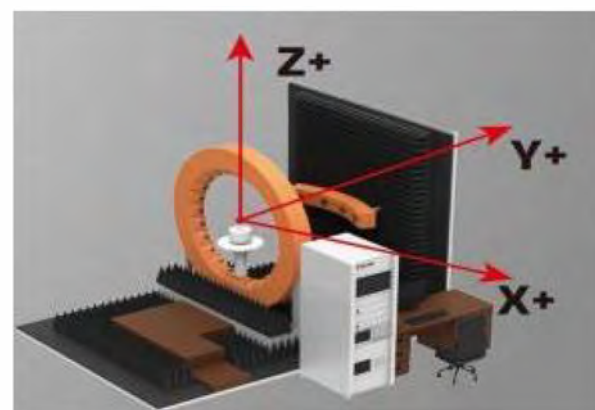
Purpose

This report is to measure the performance of antenna for **CPFN101C** The antenna operating frequency at 2400-2500MHz All test data are showed as below.



1.TestSystem

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



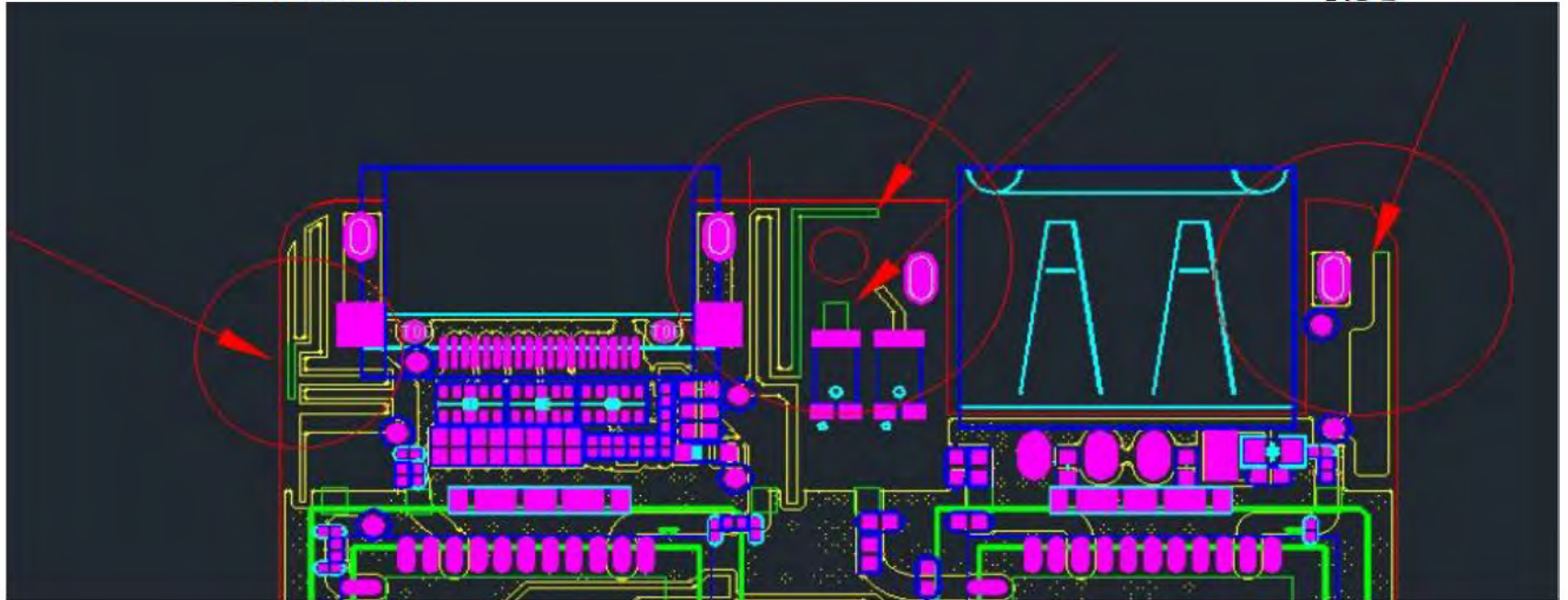
2.Product Overview & Dimension

2.4G&5.8G

2.4G&5.8G

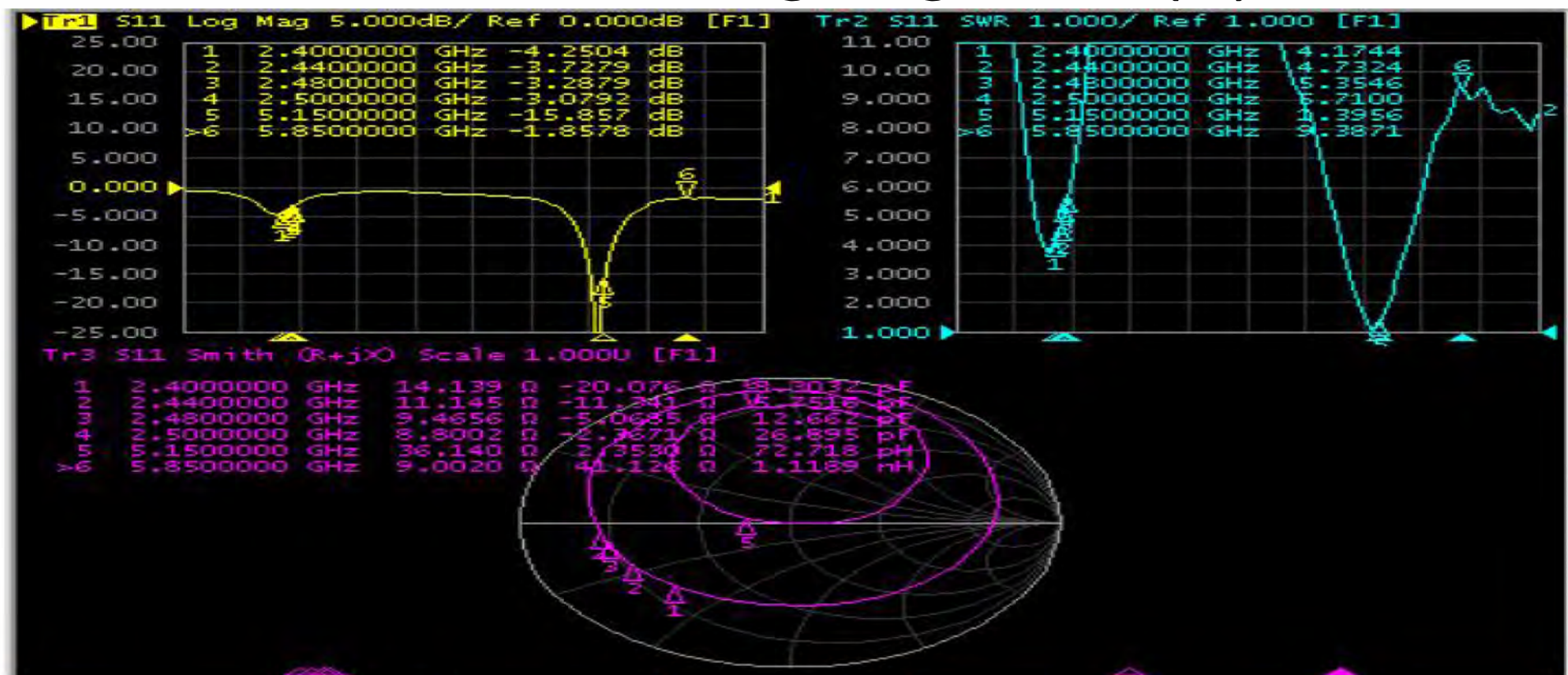
2.4G

5.8G



2. Test Result VSWR&Log Mag&Smith(Ω)

2.4G&5.8G



Frequency (MHz)	2400	2440	2480	2500	5150	5850
Log Mag	-4.25	-3.72	-3.28	-3.07	-15.85	-1.85
Smith(Ω)	14.13	11.14	9.46	8.80	36.14	9.00
VSWR	4.17	4.73	5.35	5.71	1.39	9.38

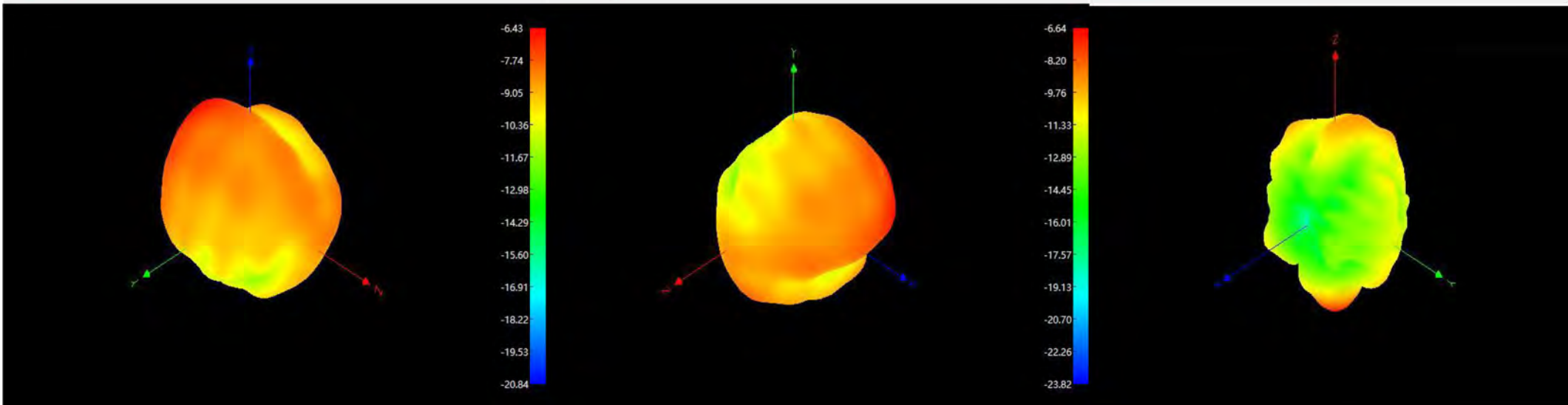
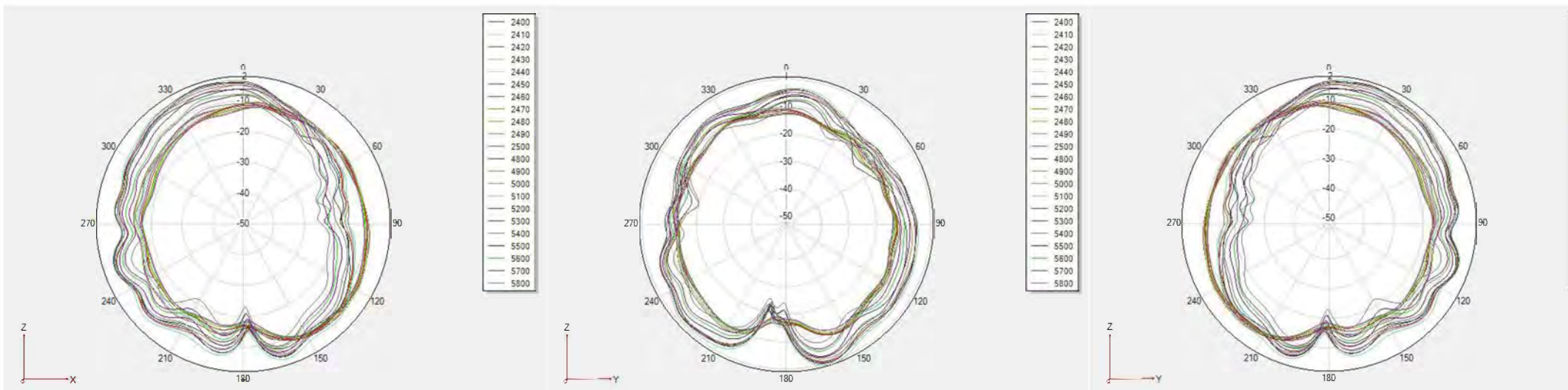
3. Test Result

2.4G

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	8.61	-6.72
2410	8.36	-6.43
2420	8.59	-6.08
2430	8.39	-6.2
2440	8.53	-6.16
2450	8.38	-6.64
2460	8.18	-6.29
2470	7.46	-6.97
2480	7.03	-6.97

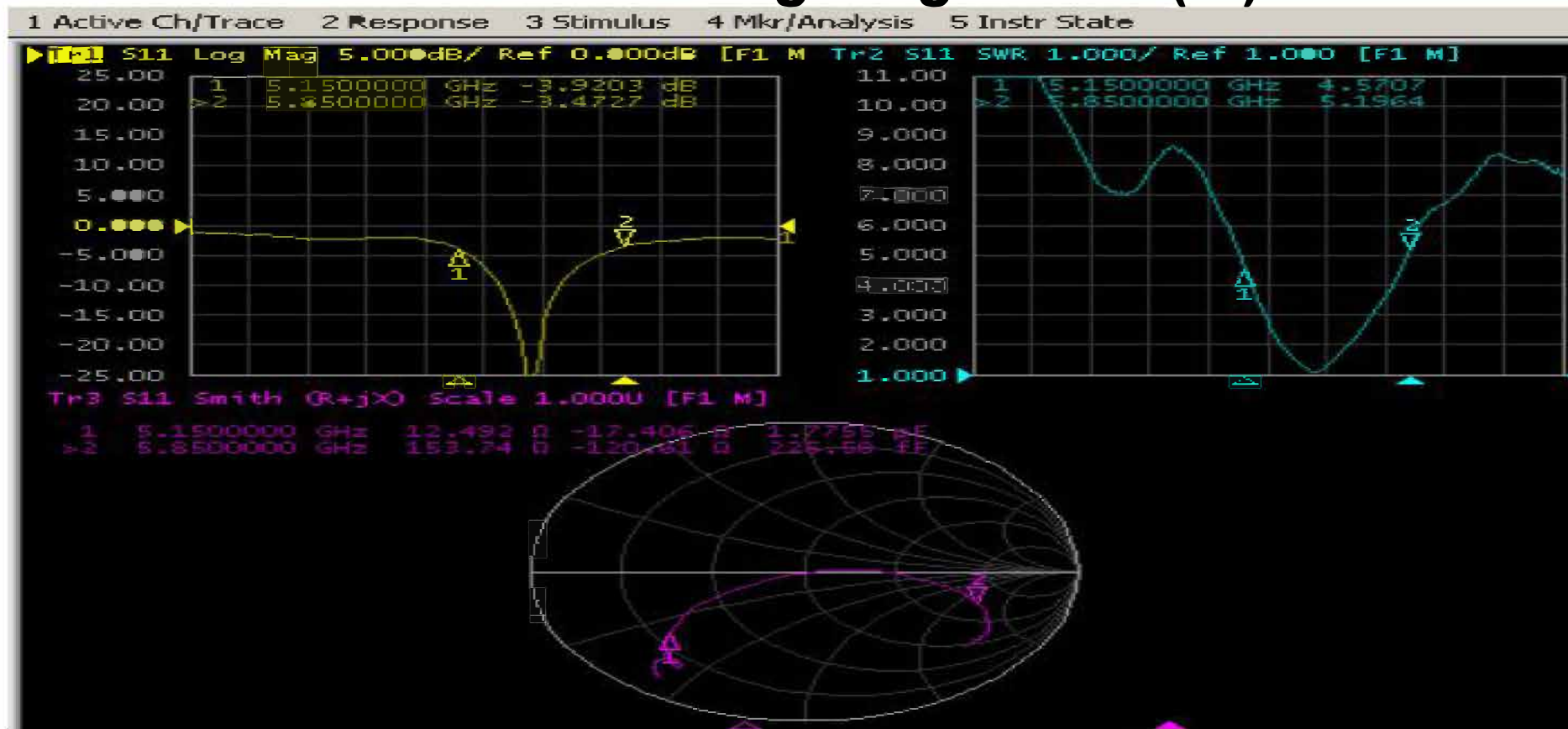
3. Test Result

3.1 2D Pattern — BTANT 2.4G&5.8G



2. Test Result VSWR&Log Mag&Smith(Ω)

5.8G



Frequency (MHz)	5150	5850
Log Mag	-3.92	-3.47
Smith(Ω)	12.49	153.74
VSWR	4.57	5.19

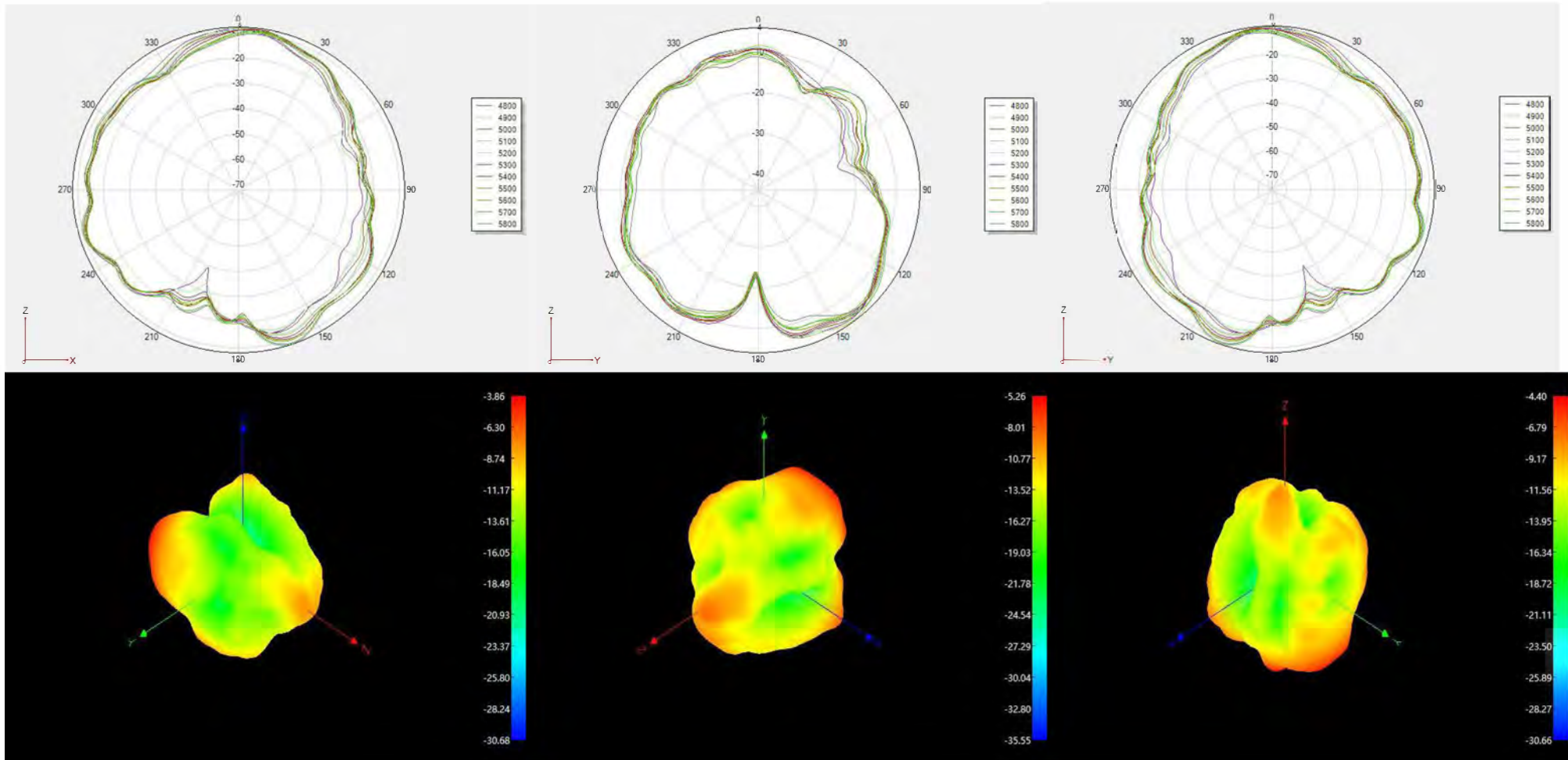
5.8G

3. Test Result

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
5150	15.79	-3.86
5250	16.18	-5.08
5350	17.06	-4.98
5450	18.87	-5.26
5550	20.49	-5.52
5650	20.24	-5.59
5750	17.59	-4.4
5850	14.93	-4.94

3. Test Result

3.1 2D Pattern — BTANT 5.8G



2. Test Result VSWR&Log Mag&Smith(Ω)

2.4G PCB ANT



Frequency (MHz)	2400	2440	2480	2500
Log Mag	-2.45	-6.74	-10.70	-5.32
Smith(Ω)	349.63	124.91	51.31	39.02
VSWR	7.12	2.70	1.82	3.36

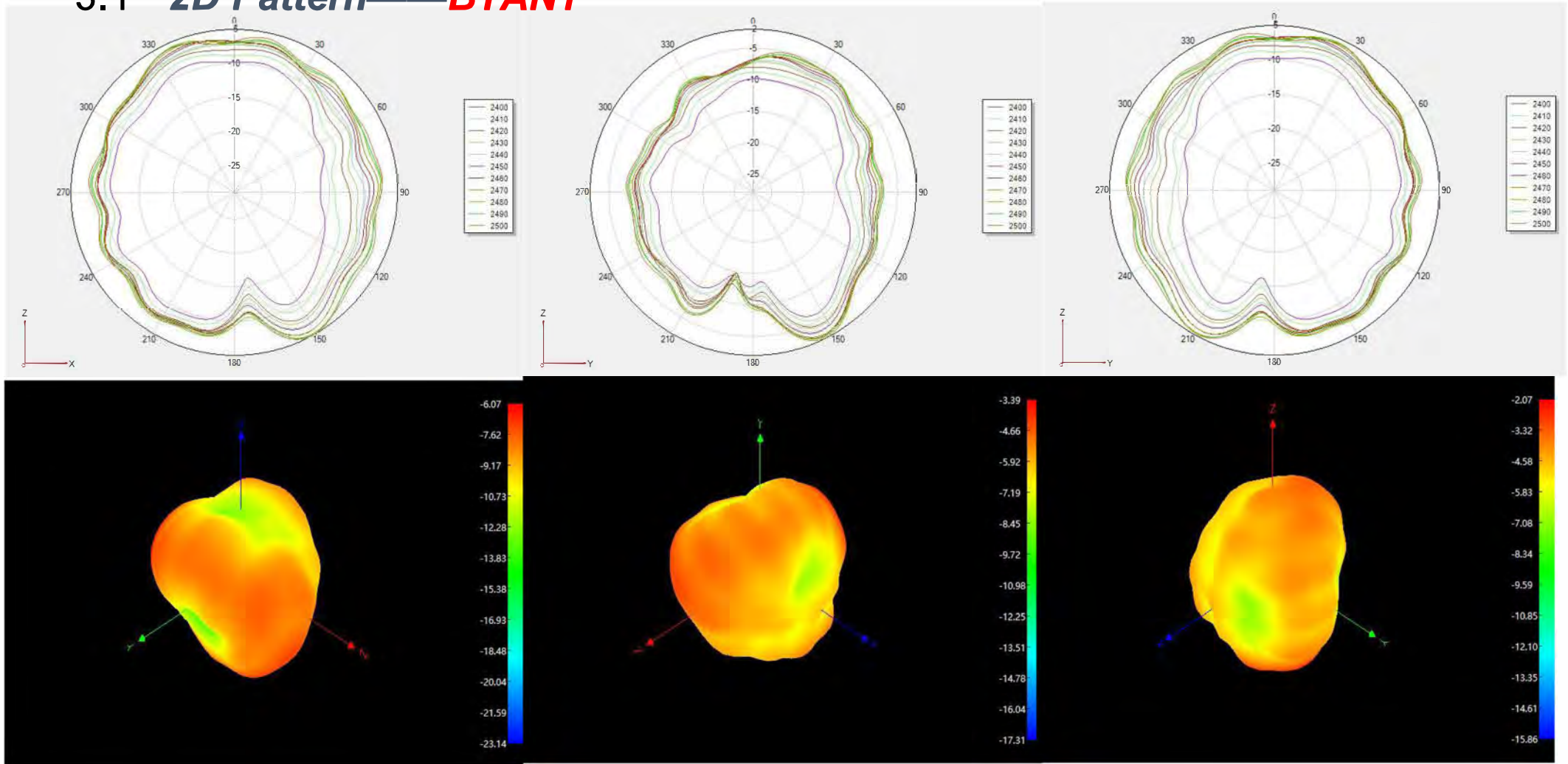
3. Test Result

2.4G PCB ANT

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	10.42	-6.07
2410	12.19	-5.3
2420	14.69	-4.35
2430	16.52	-4.09
2440	18.75	-3.53
2450	20.56	-3.39
2460	21.88	-2.53
2470	22.7	-2.7
2480	23.77	-2.07

3. Test Result

3.1 2D Pattern——BTANT 2.4G PCB ANT



2. Test Result VSWR&Log Mag&Smith(Ω)

2.4G PCB ANT



Frequency (MHz)	2400	2440	2480	2500
Log Mag	-4.25	-13.40	-5.65	-3.54
Smith(Ω)	202.90	72.16	64.34	73.91
VSWR	4.16	1.54	3.17	4.96