



深圳市飞讯联科电子有限公司

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Shenzhen Feixun Lianke Electronics Co., Ltd.

承 认 书

SPECIFICATION

产品资料	客户资料
产品名称:WIFI 5G天线	客户名称:
产品型号:FXLK-FP3113A-IX1-075-5G	使用机型:
规格摘要:FPC软板为FXLK-FP3113A-5G, 1.13线径, 黑色, 1代端子, 另一端焊接比例为1: 1.5: 2, 总长25mm, 端子朝下	物料编号:

供方确认

校 对	审 核	批 准
黄志雄	余光辉	张冬晓

购方确认

校 对	审 核	批 准
结论:		

Address:5th Floor, Building A2, Jinxiangfu Industrial Park, Jiwei, Xiangxiang, Bao'an District, Shenzhen

公司电话: **0755—32936320**

联 系 人: 余光辉

网址: **www.feixunlianke.com/**

公司传真: **0755—32936320**

联系电话: **13715357616**

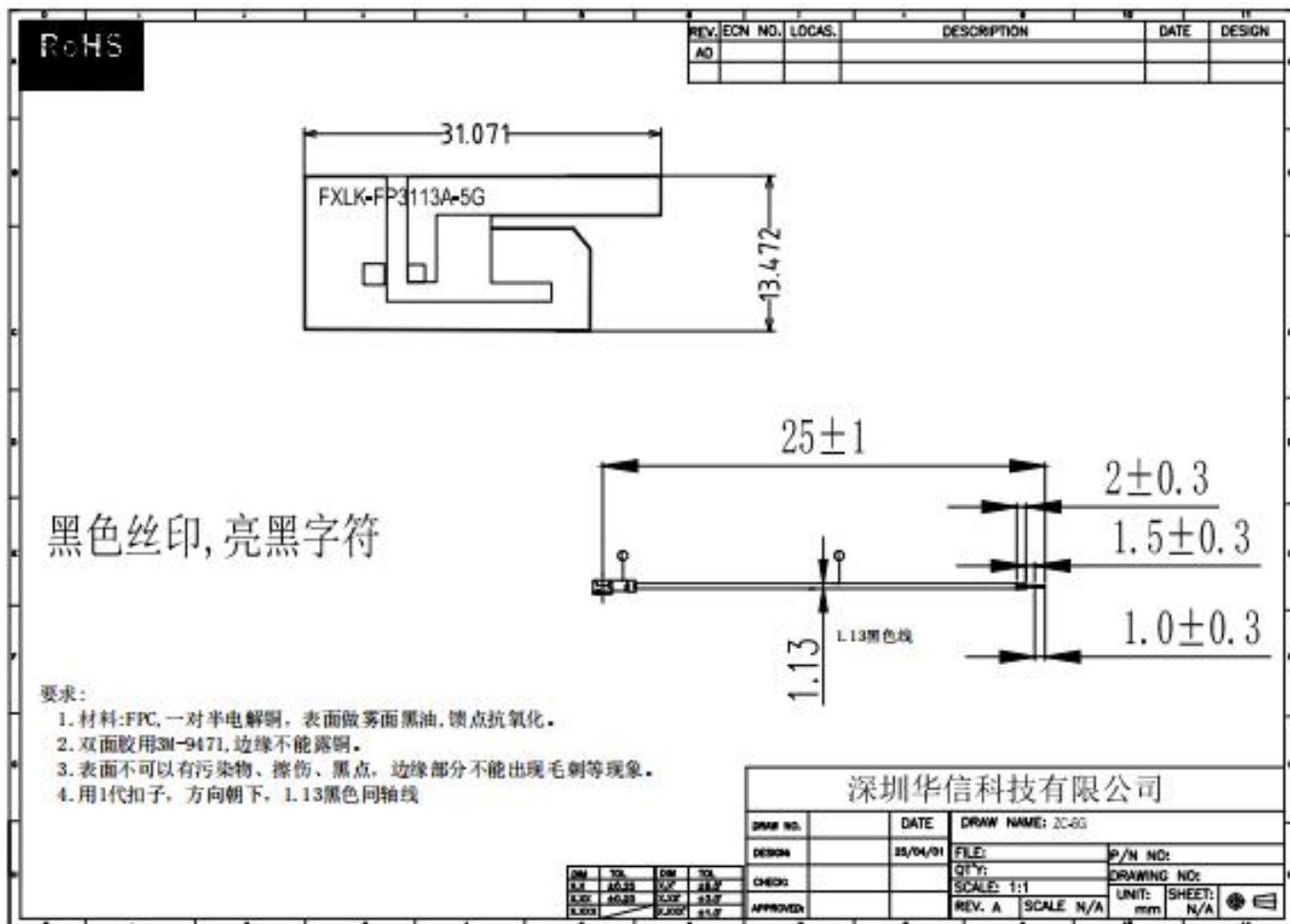
E-mail: **ygh7616@163.COM**



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5GHz ISM Band Frequency

天线2D图纸:





Descriptions

This antenna is designed for 5G ISM Band. Both of wireless LAN IEEE 802.11/A ,Bluetooth and Zigbee .This Antenna provides a high Efficiency and good performance

Following features:

- ◆ IEEE 802.11A standards
- ◆ Single Band working
- ◆ 2.07dBi peak gain @5.8GHz
- ◆ Case mount
- ◆ Easy integration

Applications

- ◆ Wireless LAN
- ◆ ISM band 5GHz wireless applications
- ◆ BlueTooth
- ◆ Zigbee



Electrical Specifications

Item	Specification
Frequency Range	5 GHz ~ 5.8GHz
Peak Gain	2.07dBi @5.8GHz
VSWR	2 max.
Polarization	Linear
Feed Impedance	50Ω
Power handling	30dbm
Operation Temperature	-40°C ~ +85°C



Antenna Test Environment;

1. Network Analysis:

Agilent 8753ES

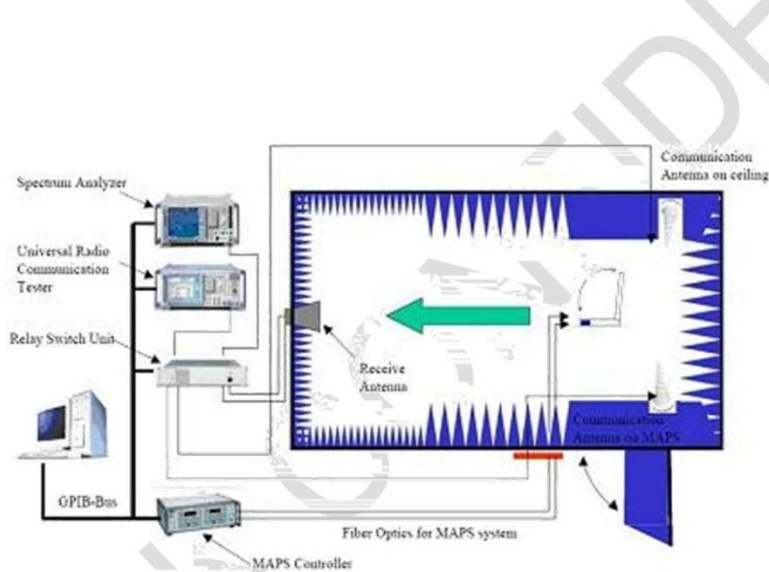
5071C

2. RF Test Equipment:

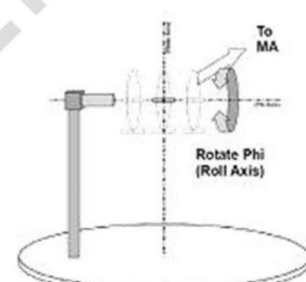
Agilent 8960

CMW500

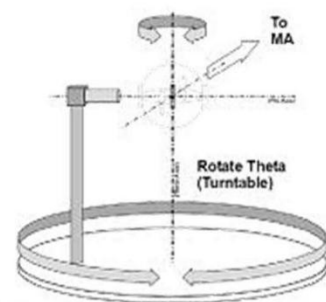
3. Shielding Rom Test Environment:



(Testing by 3D anechoic chamber)



Phi axis test



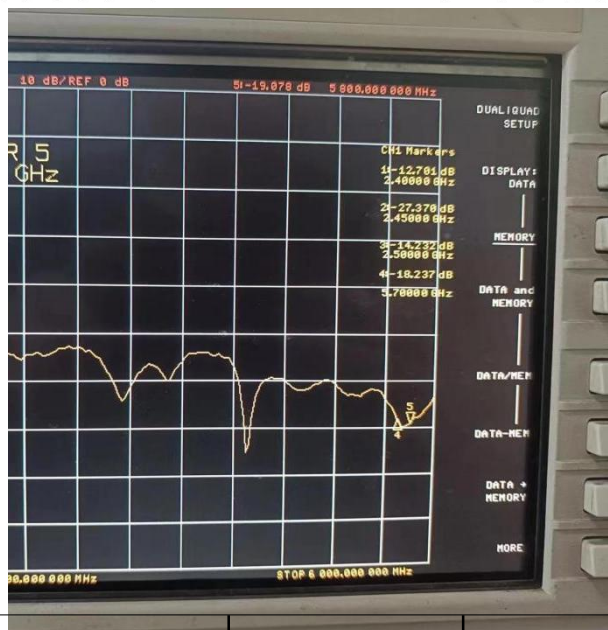
Theta axis test



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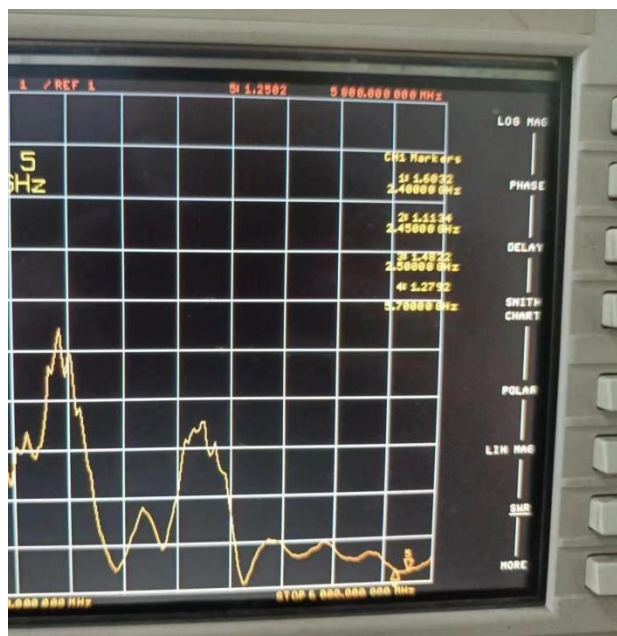
天线无源数据参数:

传导测试 S11 Return Loss 如下 图片:



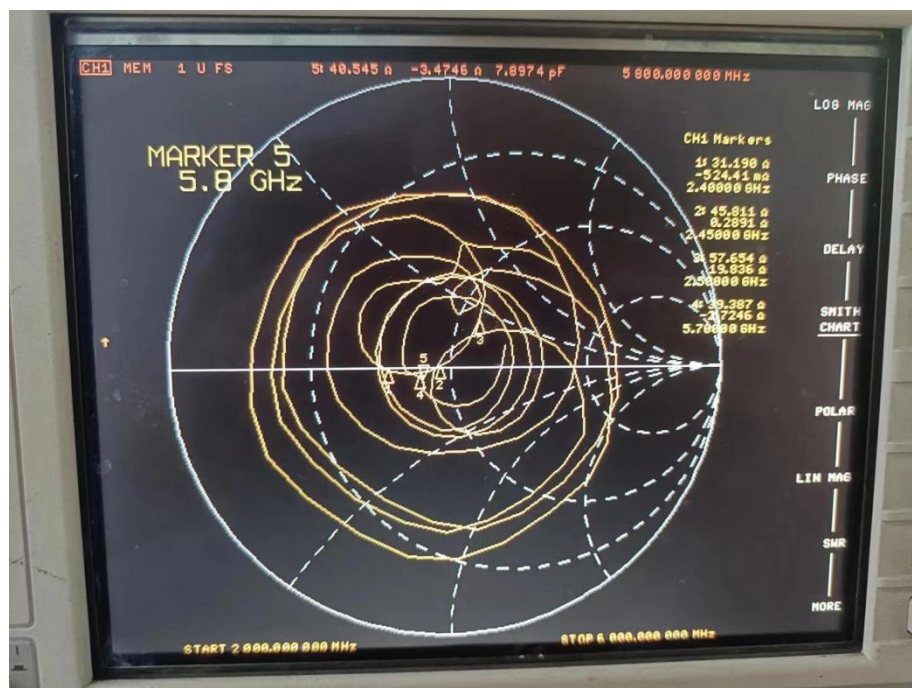
S11 RETRUN LOSS	5700MHz	5800MHz
dB	-18.23	-19.07

传导测试 S11 VSWR 测试如下图片:



VSWR	5700MHz	5800MHz
	1.27	1.25

传导测试 Smith Chart 测试如下图片:



IMPADANC E	5700MHz	5800MHz
OHM	39.38	40.54

Antenna Gain and Efficiency Test Results

Freq (MHz)	Effi (%)	Gain (dBi)
5700	45.47	2.12
5710	48.23	2.16
5720	47.82	2.48
5730	43.46	2.44
5740	47.84	2.74
5750	43.43	2.38
5760	43.67	2.43
5770	44.26	2.39
5780	47.14	2.77
5790	44	2.2
5800	42.6	2.07

5G Gain and Efficiency



5G Gain and Efficiency

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5150	45.32	2.19
5160	48.16	2.10
5170	47.90	2.41
5180	43.45	2.43
5190	47.54	2.45
5200	43.42	2.39
5210	43.45	2.40
5220	44.43	2.31
5230	47.23	2.23
5240	44.24	2.21
5250	42.61	2.01

The Feed Cable Parameter

Electrical characteristics

Item	Standard value	Item	Frequency	standard Value Unit: dB/m
Capacitance(pF/m)	98	Attenuation	1GHz	≤2.2
Velocity(%)	70		2GHz	≤3.1
Impedance(Ω)	50±2		3GHz	≤3.8
Standing wave ratio	≤1.3@0~6GHz		4GHz	≤4.4
Max.operating voltage(V)	1000		5GHz	≤4.9
Max.operating frequency(GHz)	6		6GHz	≤5.4

Dependability

ITEM	Unit	Standard value
Min.bending radius static	mm	/

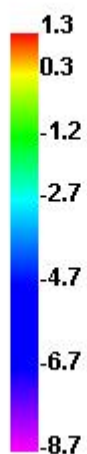
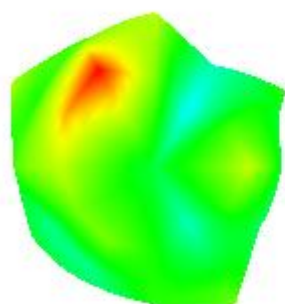


Operating temperature

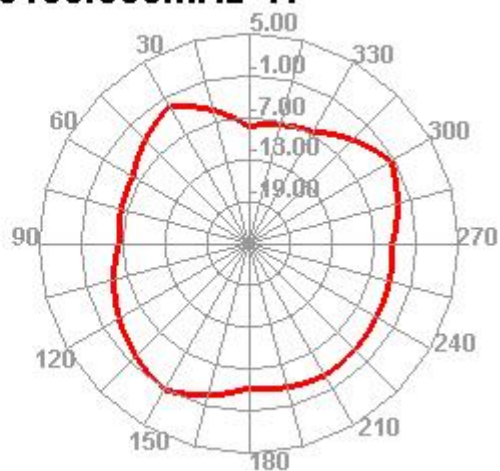
°C

-40°C ~ +85°C

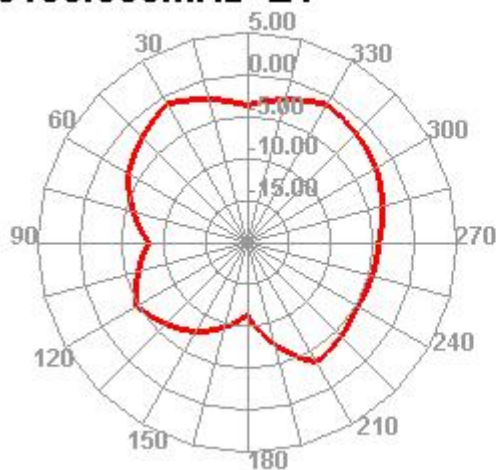
5150.000MHz



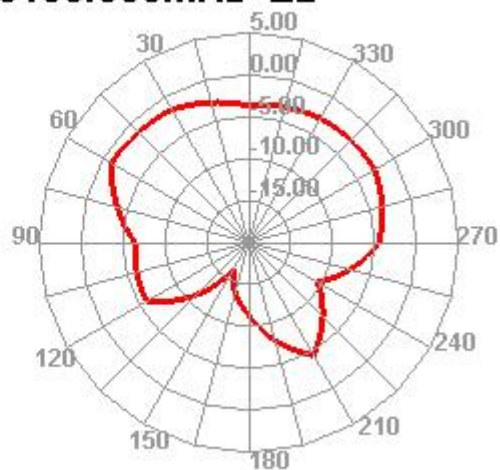
5150.000MHz H

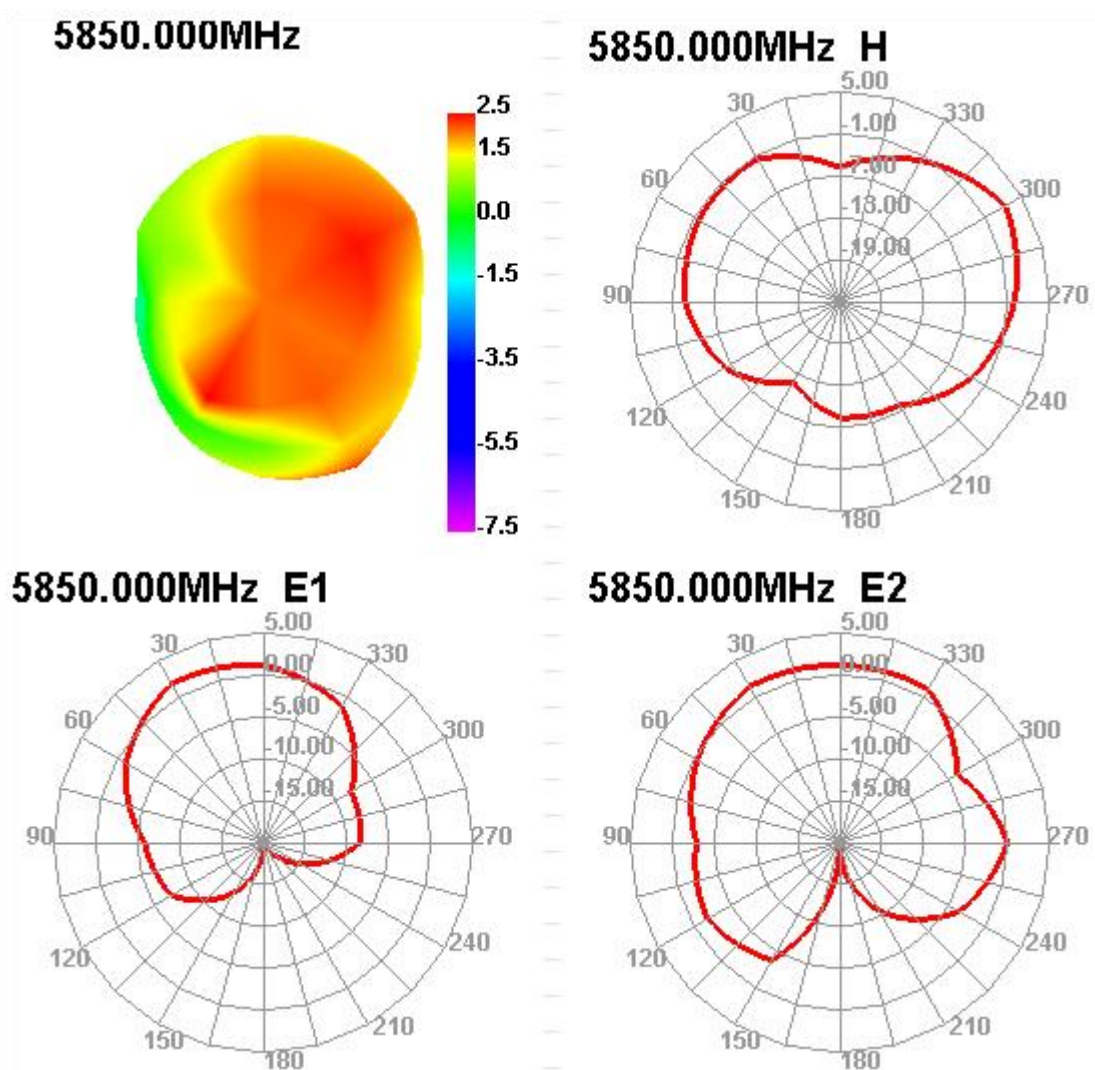


5150.000MHz E1



5150.000MHz E2



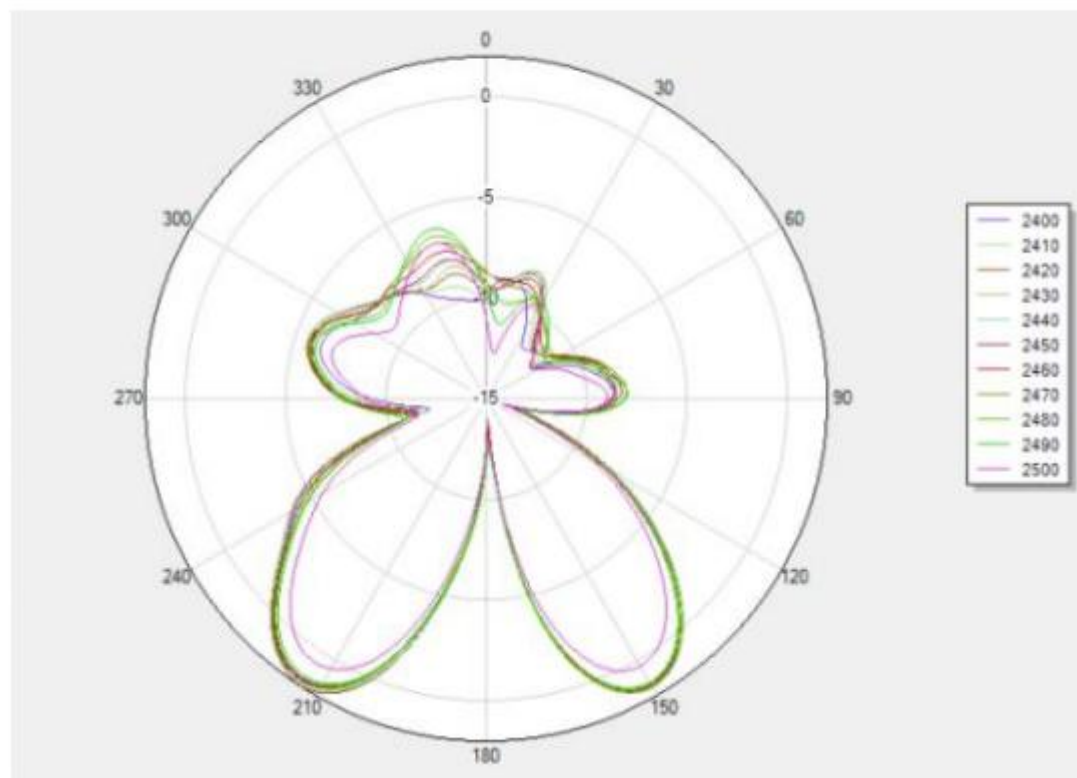


2.4GWIFI Gain and Efficiency

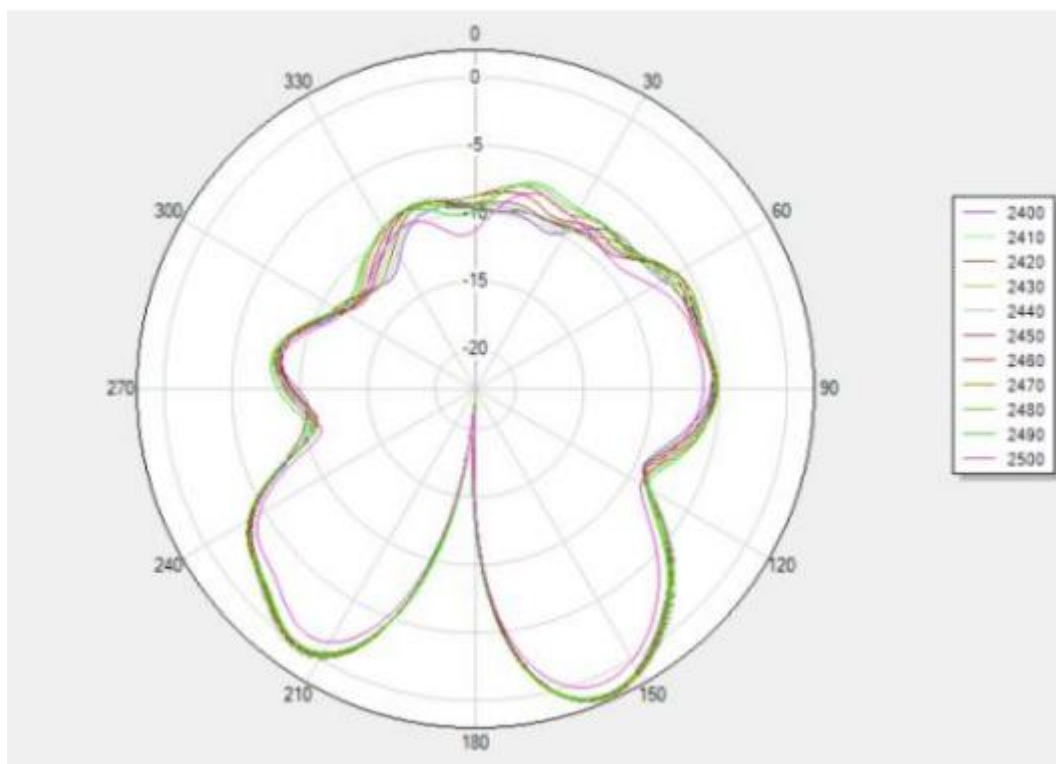


Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	2.11	32.36
2410	2.18	32.3
2420	2.20	32.1
2430	2.06	32.4
2440	2.07	32.9
2450	1.91	30.9
2460	2.04	30.8
2470	2.95	30.7
2480	1.98	31.6
2490	1.91	30.6
2500	1.03	30.5

Phi 0 2D



Phi 90 2D



Theta 90 2D

