



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期 2022/12/12
Date

编号 22121201
File No

版本 1.0
Revision

客 户 国光

CUSTOMER: _____

客户料号 MK2

CUSTOMER NO: _____

品 名 WIFI Antenna L=155MM MHF

PART NAME: _____

供方料号 YJY02.002.015.302A

SUPPLIER NO: _____

送样日期Date:

送样数量Q “TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086



天线规格

Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	4.3dBi@2.4-2.5GHz 4.6dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	1代IPEX
Cable Type	O.D.1.13mm
Cable Length	155mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%



1		2		3		4		5		6		7		8	
RoHS Compliance		CUSTOMER								REV.		DESCRIPTION		DATE	
PART NO										A		首次发行		2021-10-20	
										B		修改料号		2021-10-29	

1		2		3		4		5		6		7		8	
NO		PART NAME		DESCRIPTION		Material		Part Number		Q.TY					
3		FPC		50.5*8.9MM		FPC		FPC10XXXXA.P01		1					
2		Coaxial Cable		O.D.1.13 Black		O.D.1.13		COA10XXXXA.P01		1					
1		Mini Connector		Au Plated 1代		Cu		TER10001A.P01		1					

1		2		3		4		5		6		7		8	
PART NAME: WIFI Antenna L=155MM MHF		PART NO.: YJY02.002.015.302A		DATE: 2021-10-29		Tolerance									
APPROVED BY		CHECKED BY		DESIGNED BY		UNITS: mm		X.X ±0.50							
王业昕		周颖杰		陈俊		SCALE: 1/1		X.XX ±0.15							
						REVISION: B		X° ±3°							

1		2		3		4		5		6		7		8	
50.5		8.9		155.0±3.0		③		②		①					

YJ-CPH3-WIFI-V01

东莞市一佳电子通讯科技有限公司
Dongguan Yilun Electronics Communication Technology Co., Ltd. Tel: 0769-82586086 Fax: 0769-82586086

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086



1. Antenna Profile

Device



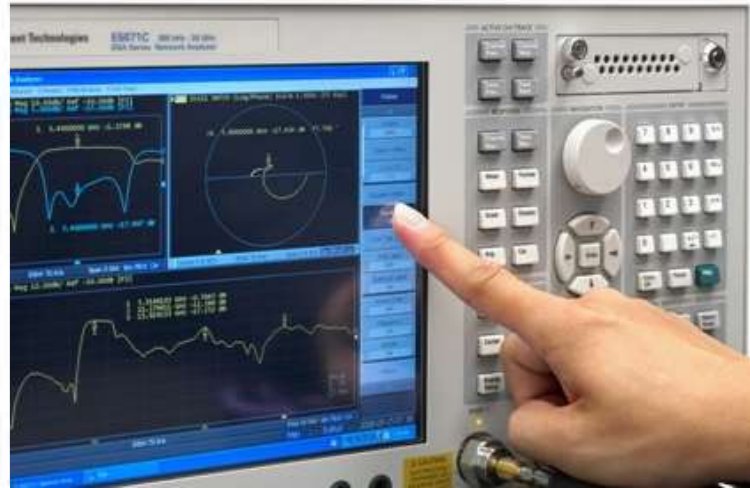
*WIFI
Antenna*



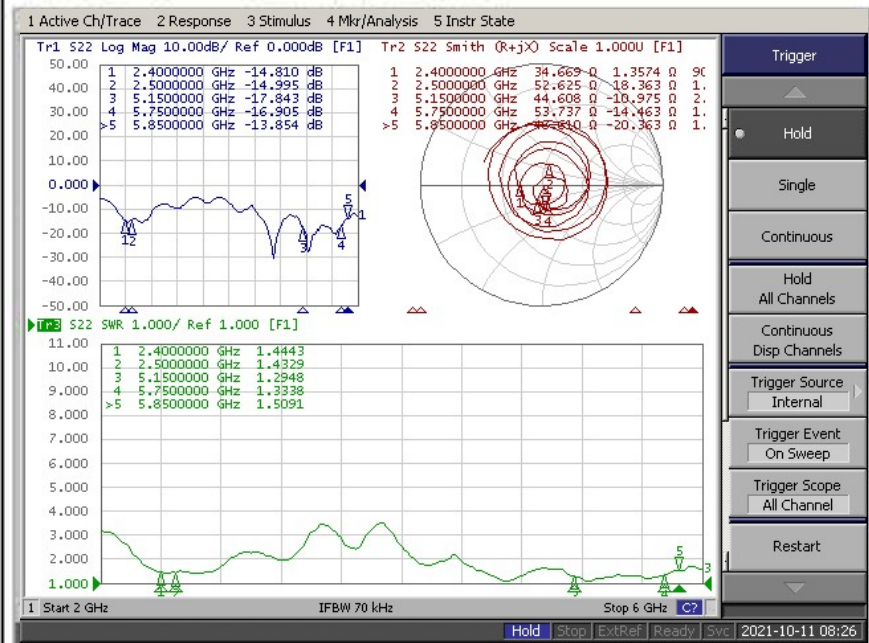


2. Antenna Performance Test

**Agilent
E5071B**

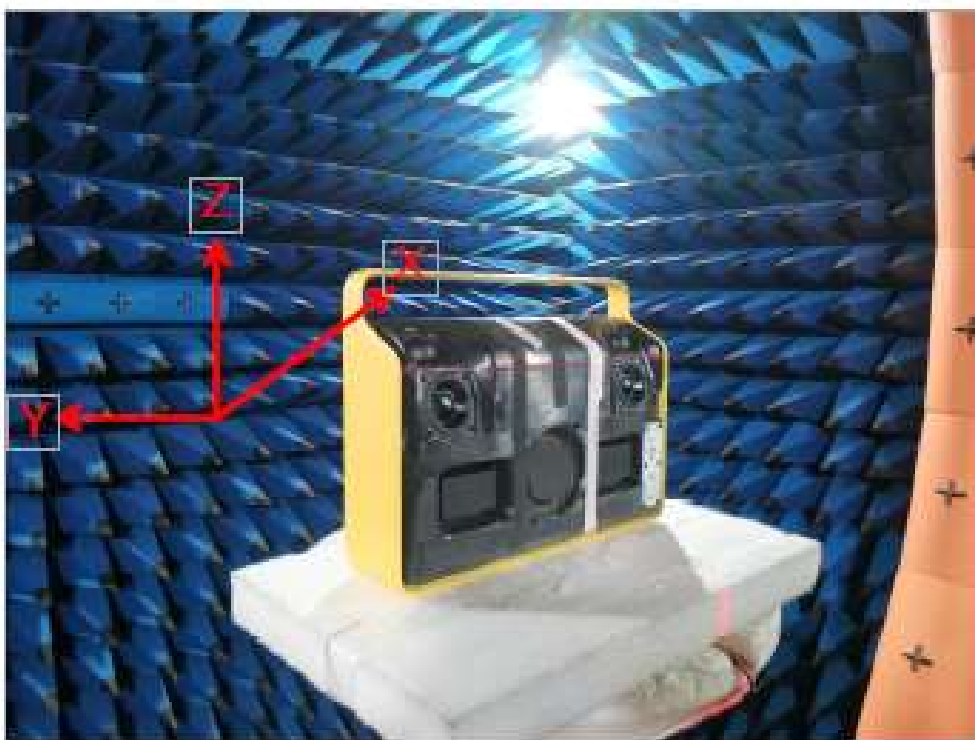
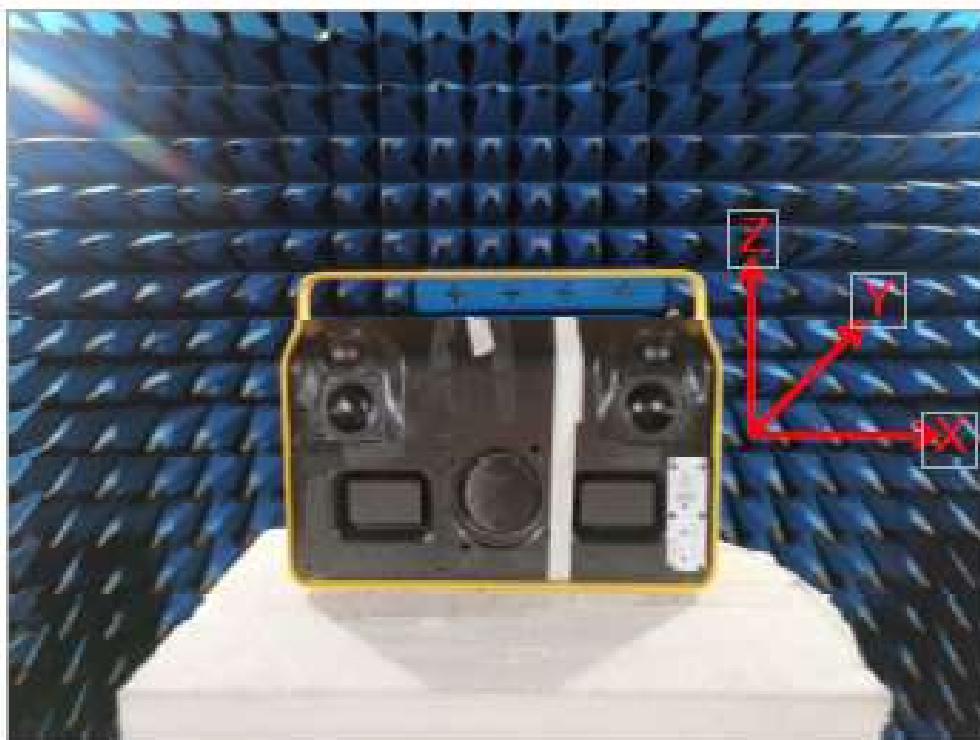


**S11
Parameter
Test //
WIFI
Antenna**





3. *Antenna Passive Test*





Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	64.3	-1.9	3.7
2410	65.2	-1.9	3.9
2420	64.3	-1.9	3.8
2430	64.9	-1.9	4.1
2440	64.7	-1.9	4.3
2450	64.1	-1.9	3.8
2460	64.9	-1.9	3.7
2470	64.8	-1.9	4.2
2480	64.9	-1.9	4.0
2490	65.2	-1.9	4.2
2500	63.0	-2.0	3.9

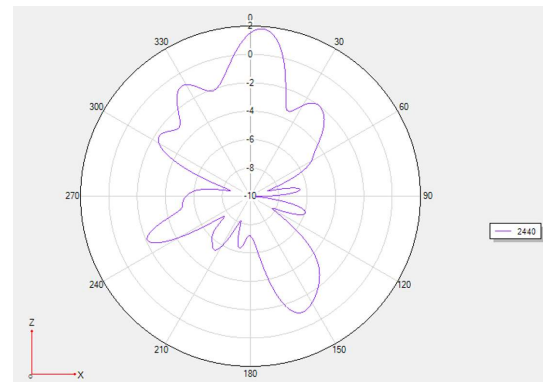


Passive Test For WiFi Antenna(5.8G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	57.2	-2.4	3.7
5200	60.8	-2.2	4.1
5250	57.5	-2.4	3.8
5300	54.7	-2.6	3.4
5350	55.6	-2.6	3.5
5400	60.8	-2.2	4.4
5450	53.6	-2.7	3.4
5500	52.3	-2.8	3.3
5550	56.6	-2.5	4.4
5600	57.3	-2.4	4.6
5650	50.6	-3.0	4.1
5700	53.6	-2.7	4.4
5750	60.0	-2.2	4.1
5800	63.0	-2.0	4.2
5850	58.5	-2.3	4.4

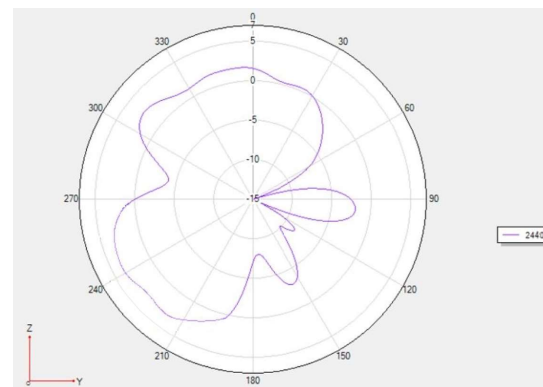


Radiation Pattern For WIFI Antenna(2440MHz)

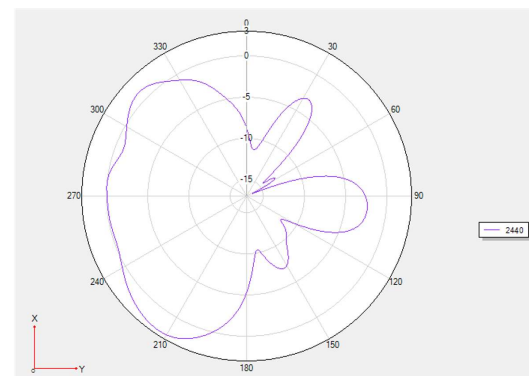
Phi 0



Phi 90



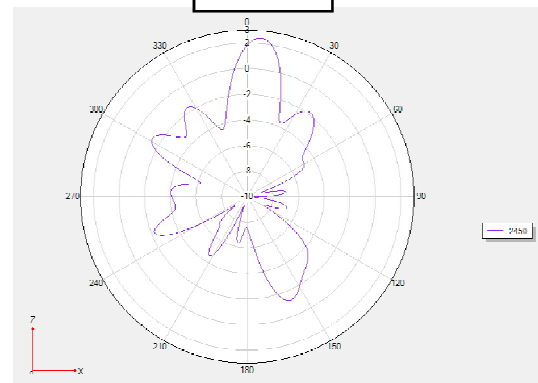
Theta 90



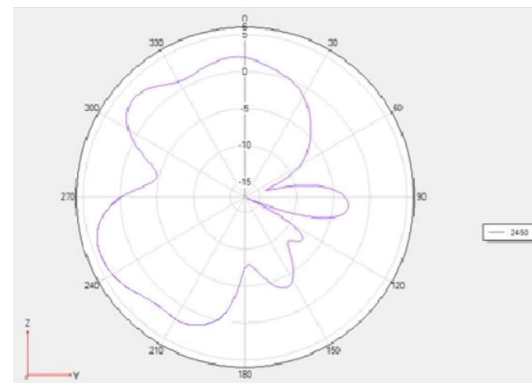


Radiation Pattern For WIFI Antenna(2450MHz)

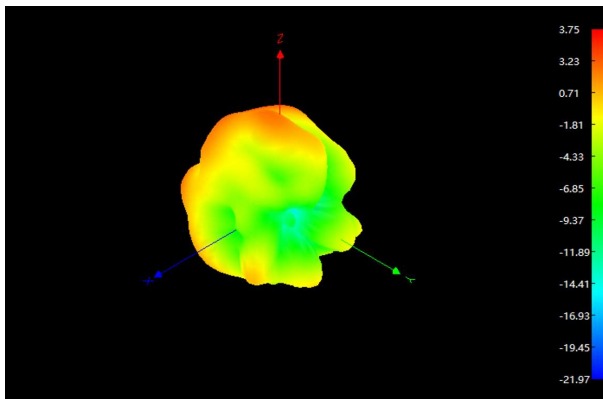
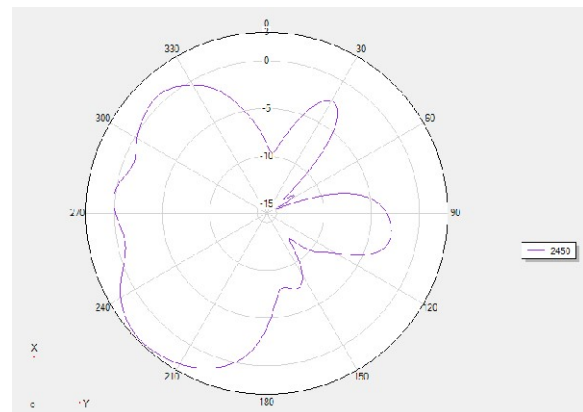
Phi 0



Phi 90



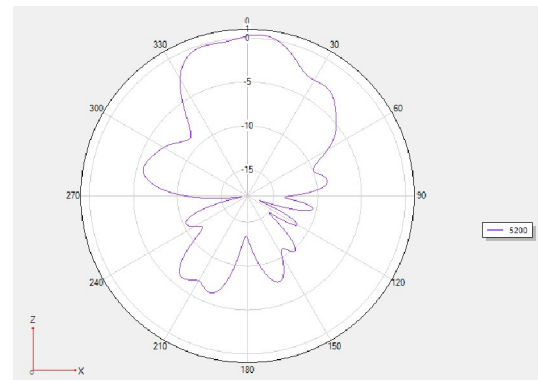
Theta 90



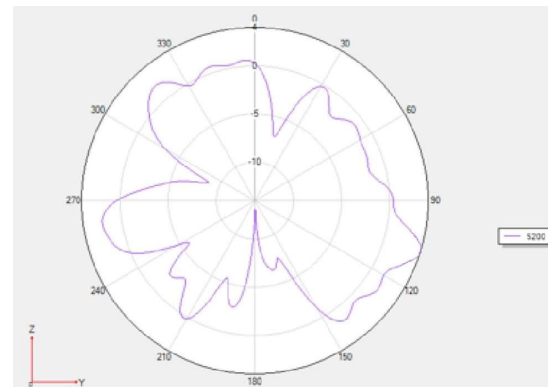


Radiation Pattern For WIFI Antenna(5200MHz)

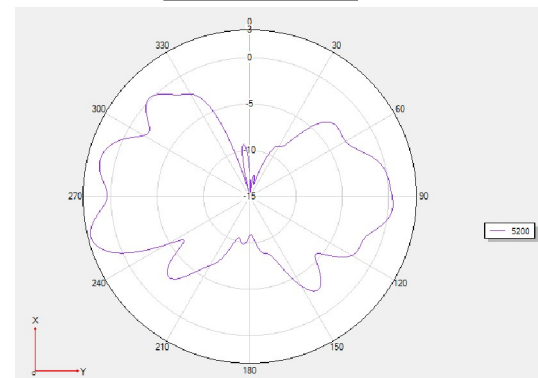
Phi 0



Phi 90



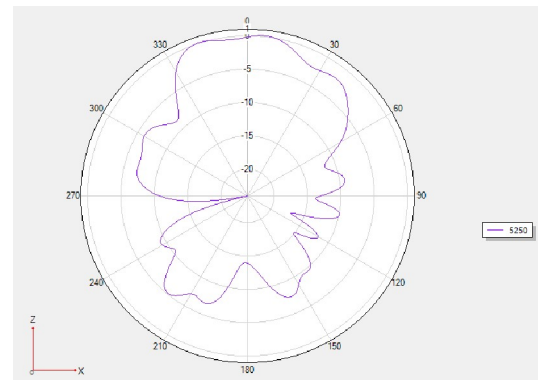
Theta 90



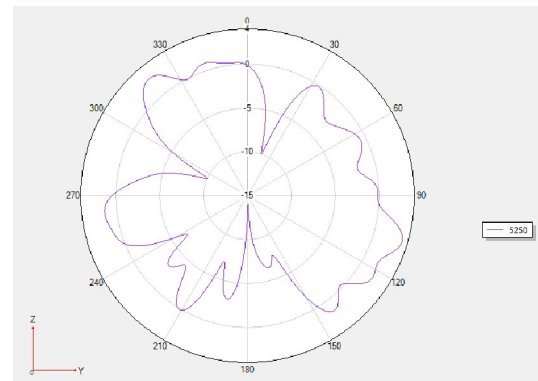


Radiation Pattern For WIFI Antenna(5250MHz)

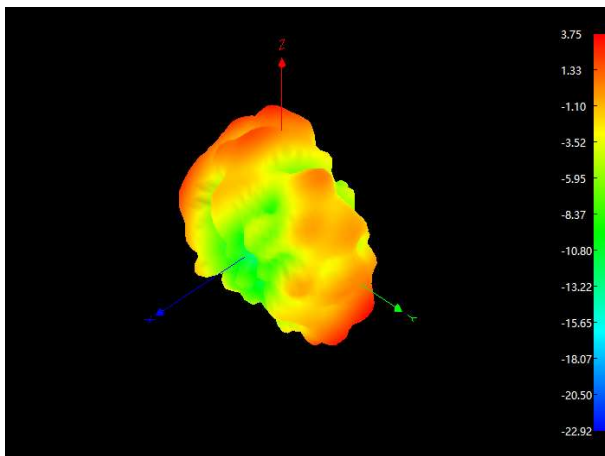
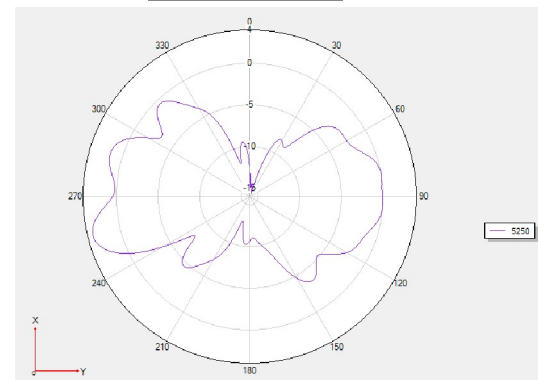
Phi 0



Phi 90



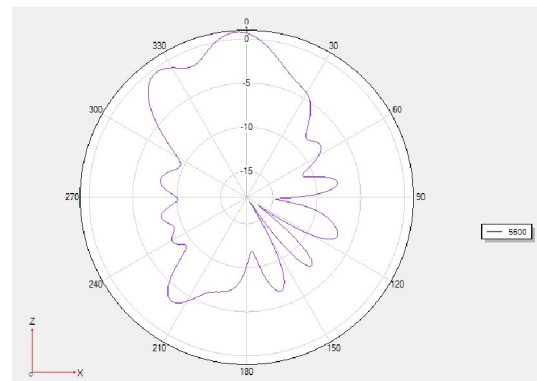
Theta 90



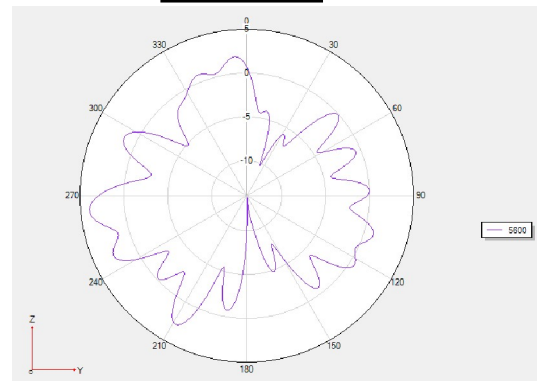


Radiation Pattern For WIFI Antenna(5600MHz)

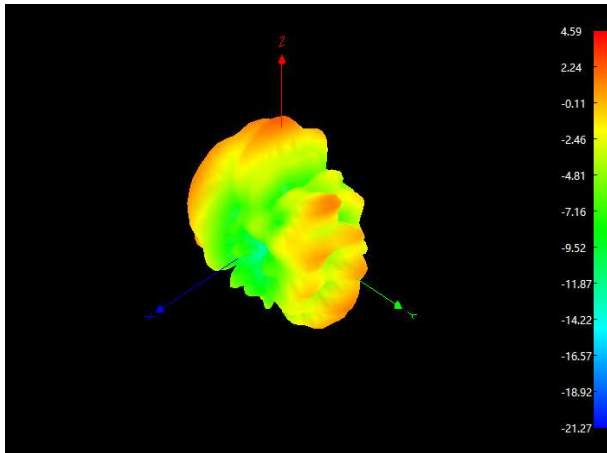
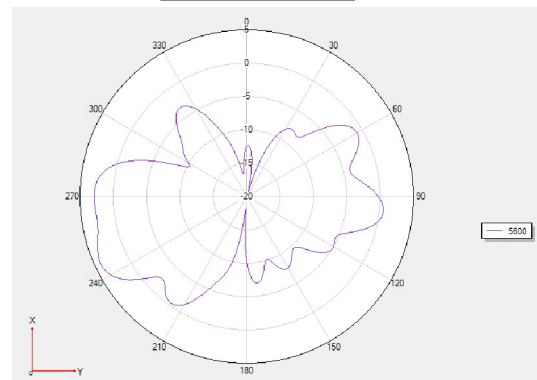
Phi 0



Phi 90

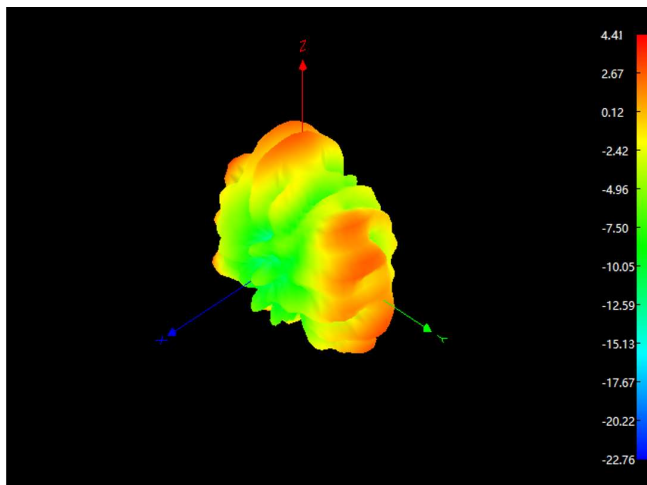


Theta 90

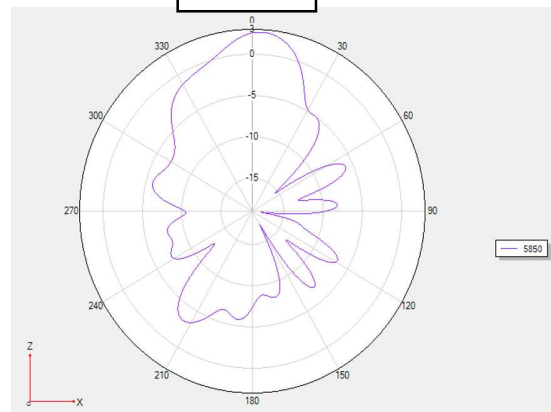




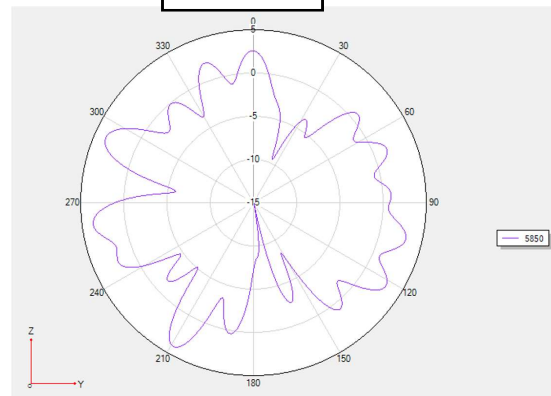
Radiation Pattern For WIFI Antenna(5850MHz)



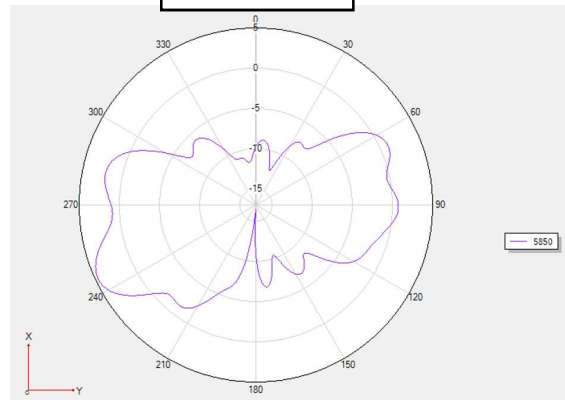
Phi 0



Phi 90

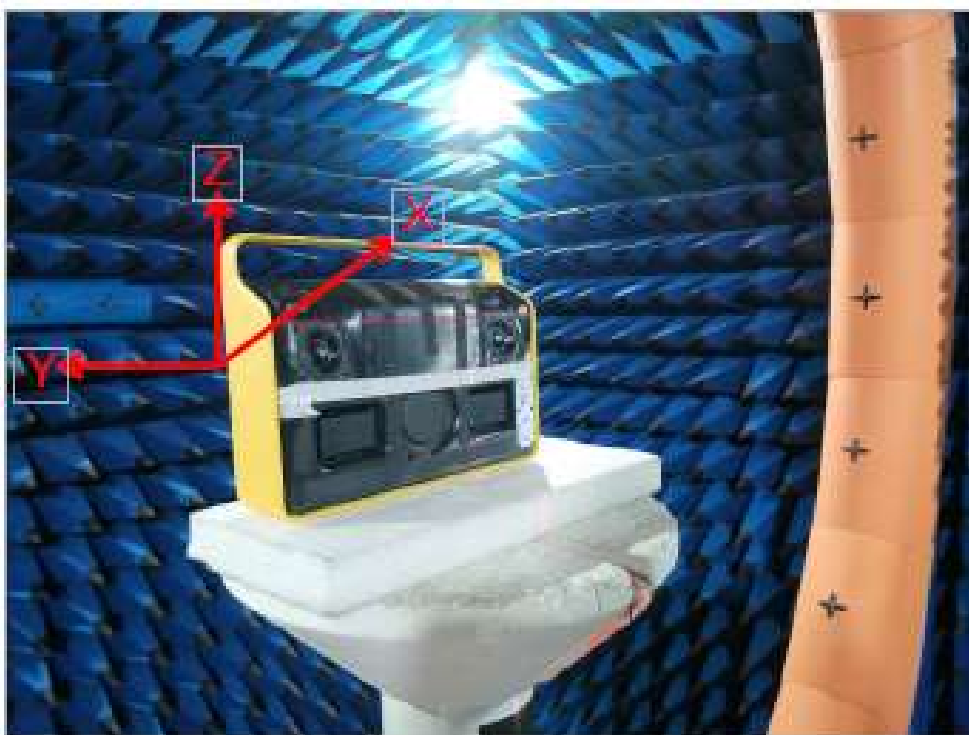
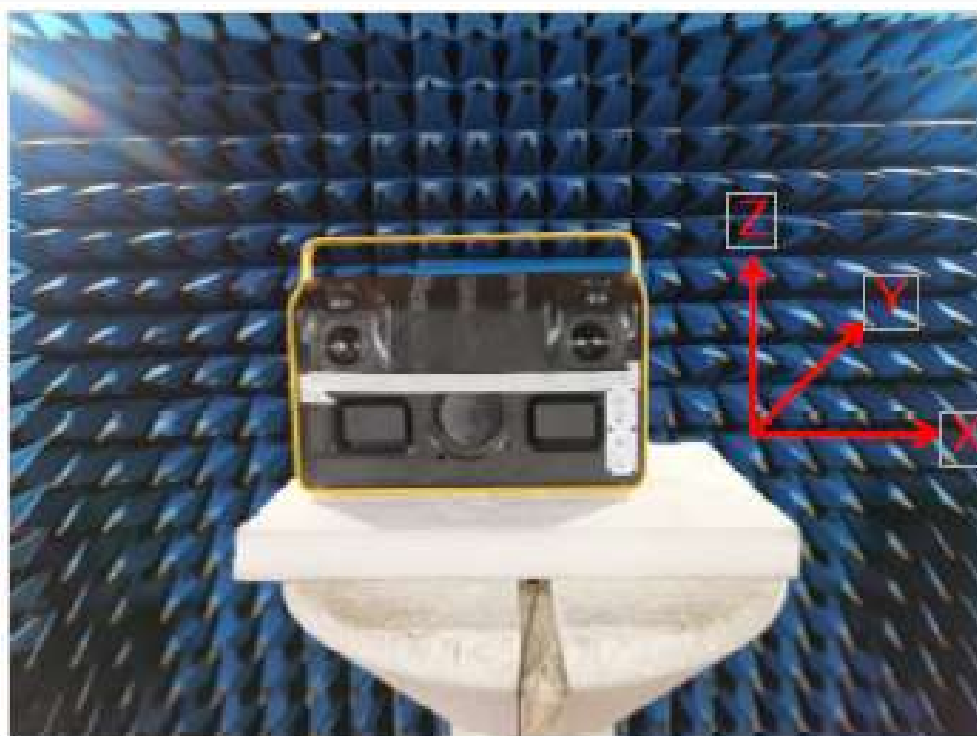


Theta 90





4. *Antenna Active Test*





Active Test For WIFI Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	14.3	11Mbps	-76.5
	6		15.1		-78.0
	11		15.2		-78.6
WIFI 2.4G 802.11g	1	54Mbps	12.7	54Mbps	-66.0
	6		13.6		-65.4
	11		14.2		-65.9
WIFI 5G 802.11a	36	54Mbps	11.7	54Mbps	-69.4
	100		12.2		-70.1
	165		13.0		-68.9

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086



实测：室外180度直线拉距，手机放口袋



测试结果：测试过程中50米内无卡顿、杂音、断音，无音等现象，加减音量、开始暂停播放都能流畅实现，超过50米出现杂音卡顿等现象，播放不流畅。

