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 Date	2024/06/07
编 号 File No	24060701
版 本 Revision	1.0

客 户 CUSTOMER:

客户料号 CUSTOMER NO: MPD-P006

品 名 PART NAME: WIFI 0 Antenna L=255.0mm MHF

供方料号 SUPPLIER NO: YJS01.005.069.301

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

承认书项目表

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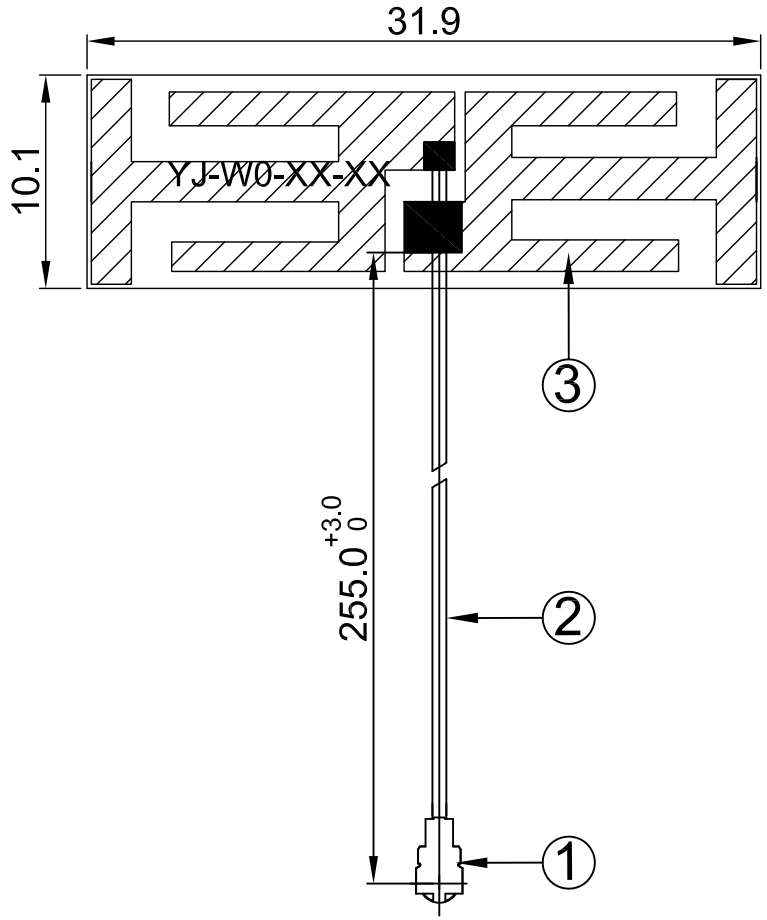
13	-	-	-

RoHS Compatible

CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
A	首次发行	2024-01-20
B	修改线长	2024-03-05



NO	PART NAME	DESCRIPTION	SUPPLIER	Material	Part Number	Q.TY
3	FPC	31.9*10.1MM	Xiao Ge	FPC	FPC10XXXA.P01	1
2	Coaxial Cable	O.D.1.13 Black Low Loss	Kai Bo	O.D.1.13	COA10XXXA.P01	1
1	Mini Connector	Au Plated 1代	Hang Yuan	Cu	TER10XXXX.P01	1

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

PART NAME: WIFI 0 Antenna L=255.0mm MHF

PART NO.:YJS01.005.069.301 DATE: 2024-03-05

APPROVED BY	CHECKED BY	DESIGNED BY
CiCi	周棋	陈俊

UNITS: mm
SCALE: 1/1
REVISION:B

Tolerance
X.X ±0.50
X.XX±0.15
X° ±3°

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@2.4-2.5GHz 2.5 Max@5.15-5.85GHz
Gain	3.8 dBi@2.4-2.5GHz 4.6 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	1代IPEX
Cable Type	O.D.1.13mm低损耗
Cable Length	255mm
Cable Color	Black
Operating Temp.	-40 ~ +85 ˚C
Storage Temp / Humidity	25±5˚C / <70%

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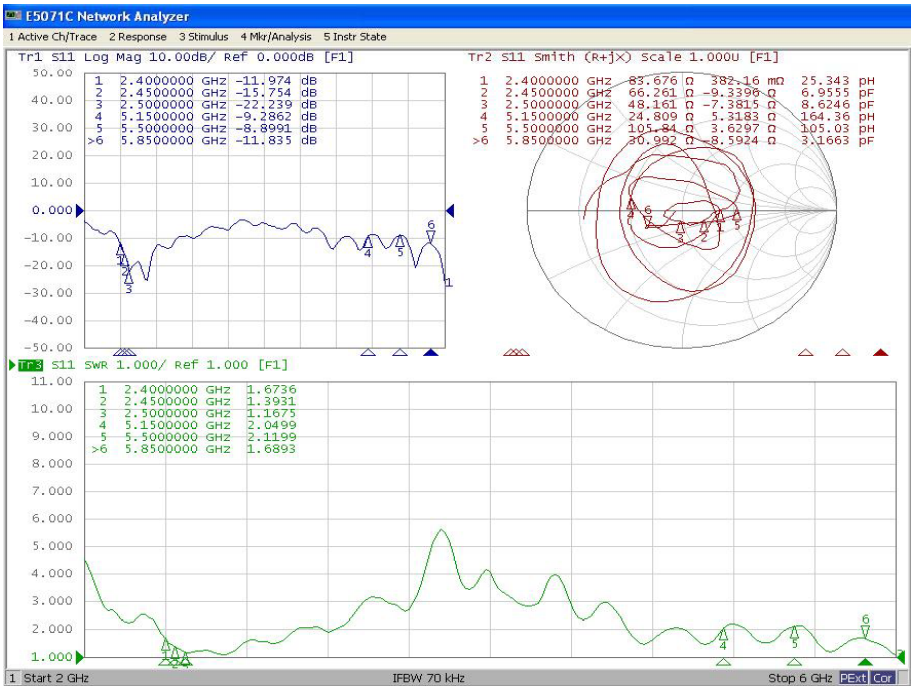
Antenna Performance Test

Agilent E5071B S11 Parameter Test // WiFi0 Antenna



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Passive Test For WiFi0 Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	52.7	-2.8	2.7
2410	53.7	-2.7	3.0
2420	53.5	-2.7	3.2
2430	54.7	-2.6	3.5
2440	55.7	-2.5	3.6
2450	57.5	-2.4	3.8
2460	55.2	-2.6	3.3
2470	56.8	-2.5	3.5
2480	54.2	-2.7	2.8
2490	53.7	-2.7	2.7
2500	50.6	-3.0	2.1

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Passive Test For WiFi0 Antenna(5.8G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	36.6	-4.4	3.8
5200	37.0	-4.3	4.2
5250	38.0	-4.2	4.3
5300	36.7	-4.4	4.1
5350	35.0	-4.6	3.5
5400	35.2	-4.5	3.4
5450	34.9	-4.6	2.6
5500	32.6	-4.9	2.8
5550	37.2	-4.3	3.7
5600	39.9	-4.0	4.2
5650	35.1	-4.6	4.1
5700	37.8	-4.2	4.6
5750	34.9	-4.6	3.9
5800	32.6	-4.9	3.5
5850	34.9	-4.6	4.5

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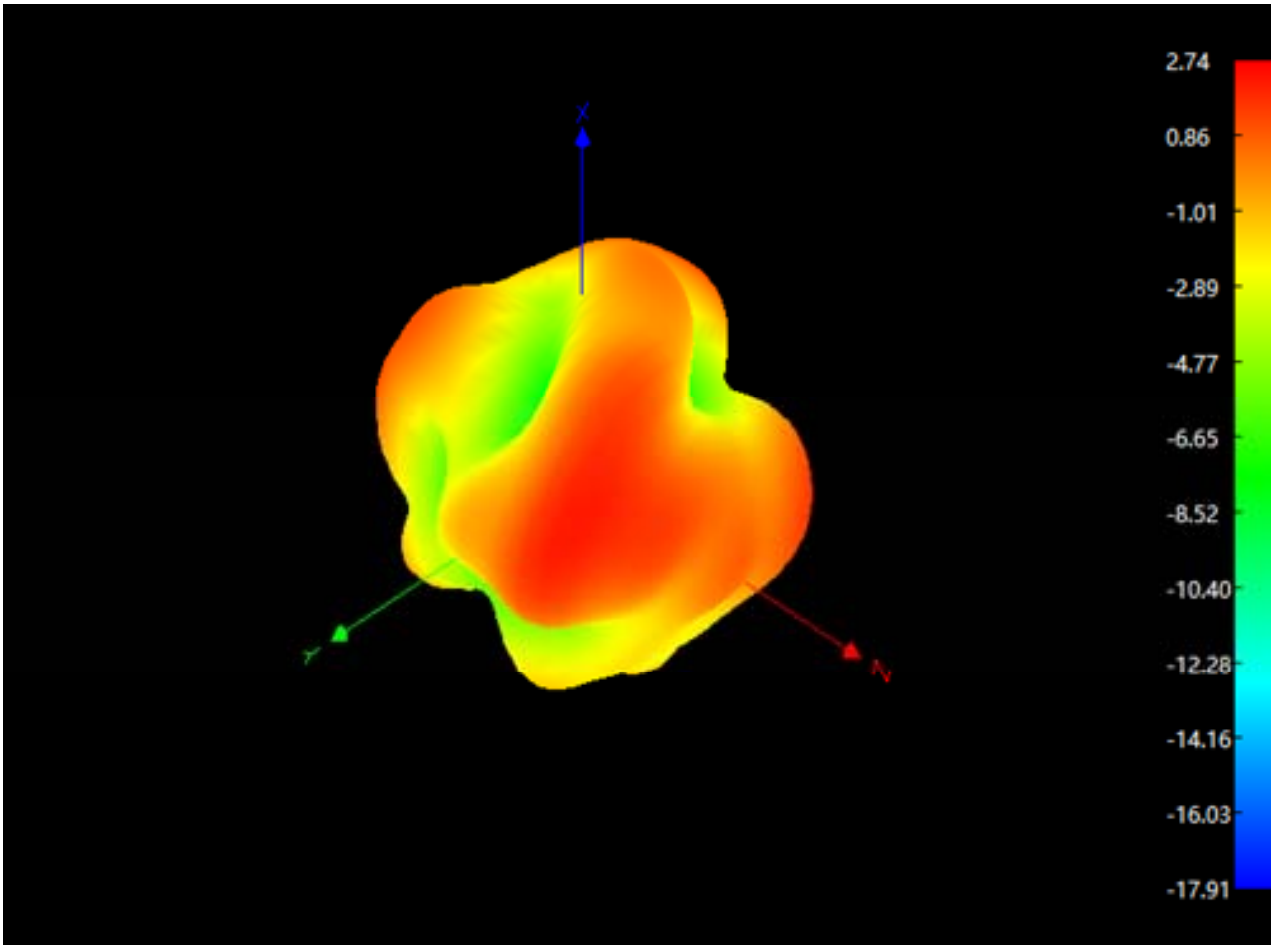
Radiation Pattern For WiFi0 Antenna（2400MHz）



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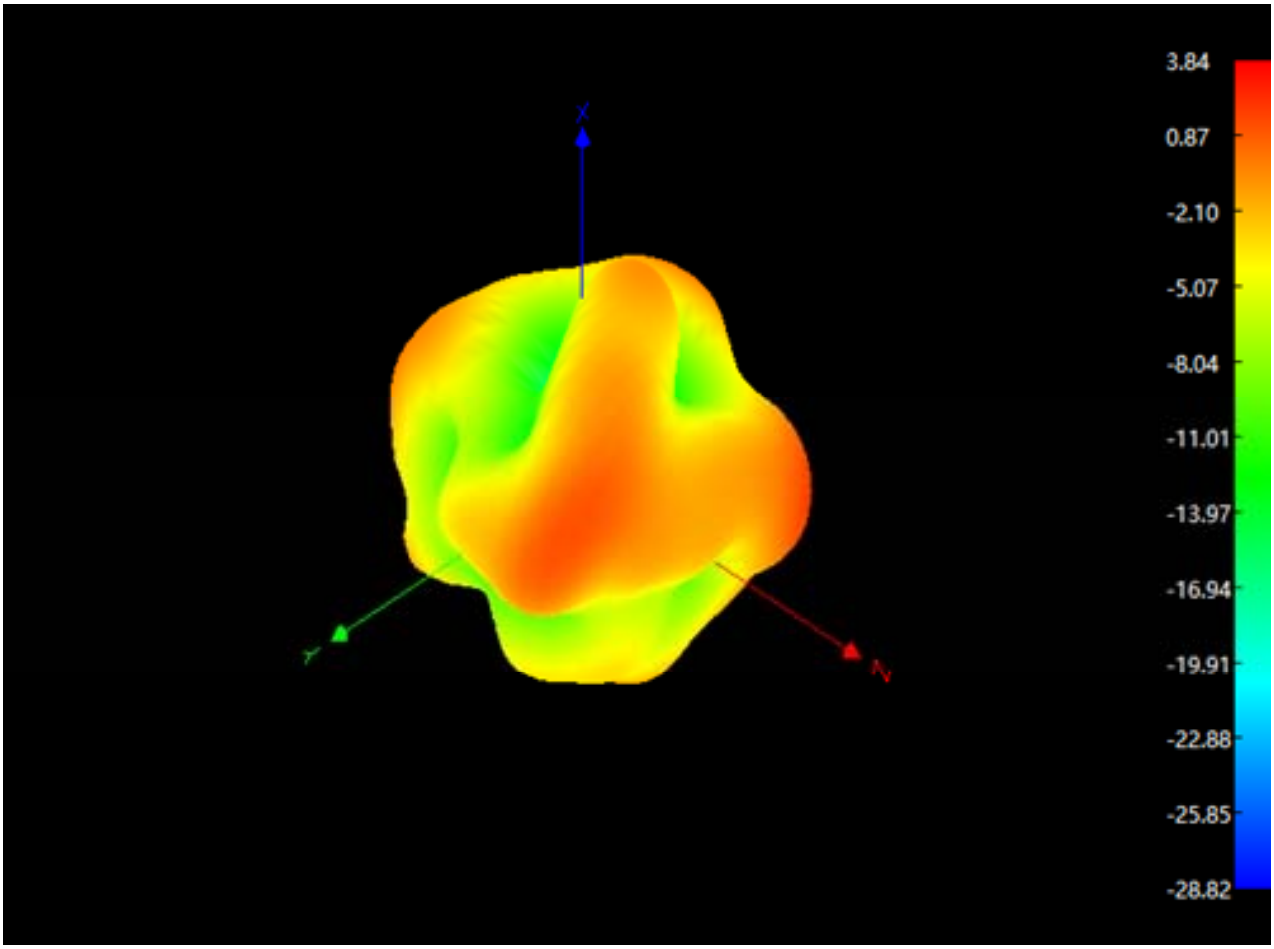
Radiation Pattern For WiFi0 Antenna（2450MHz）



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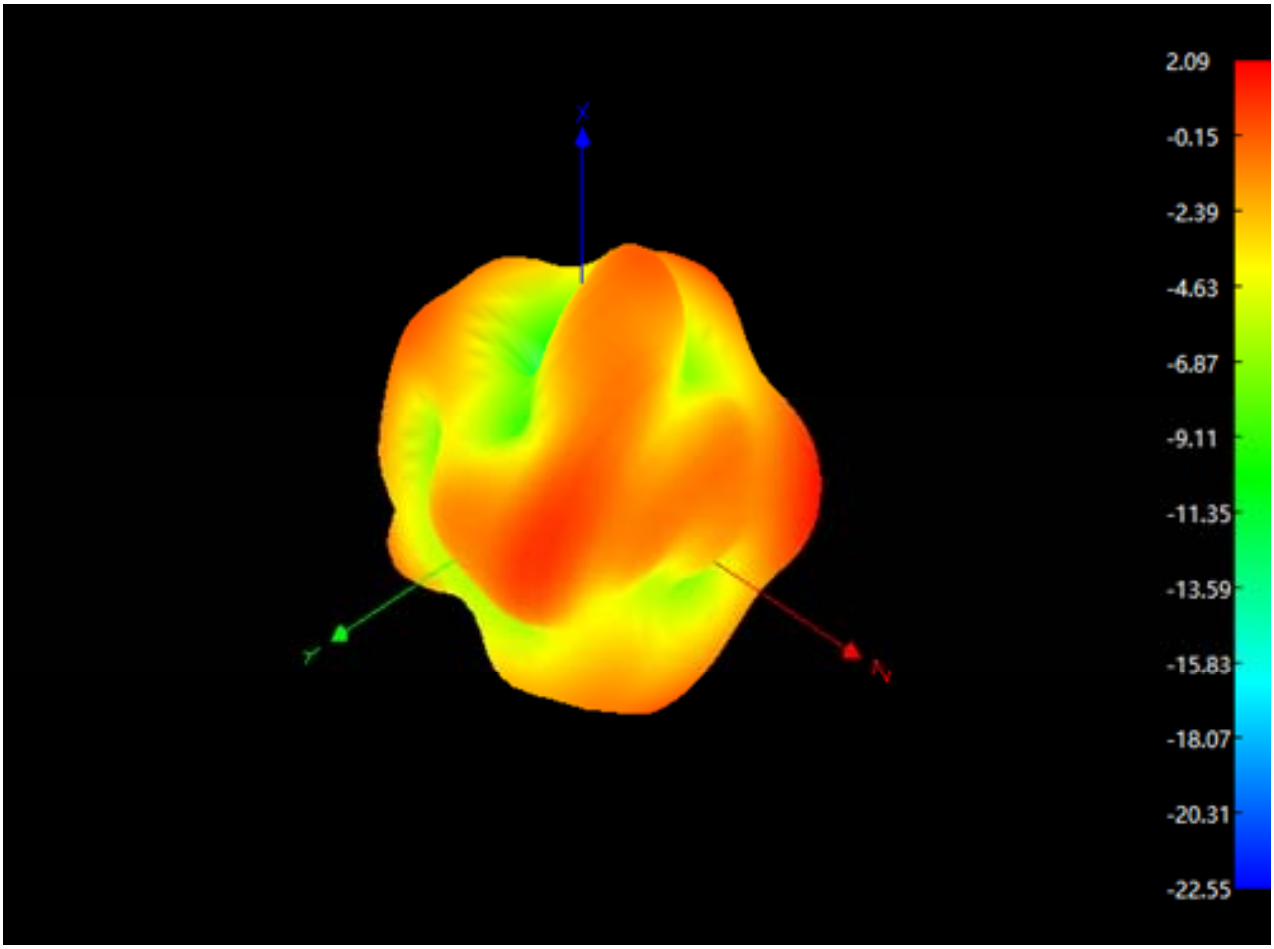
Radiation Pattern For WiFi0 Antenna（2500MHz）



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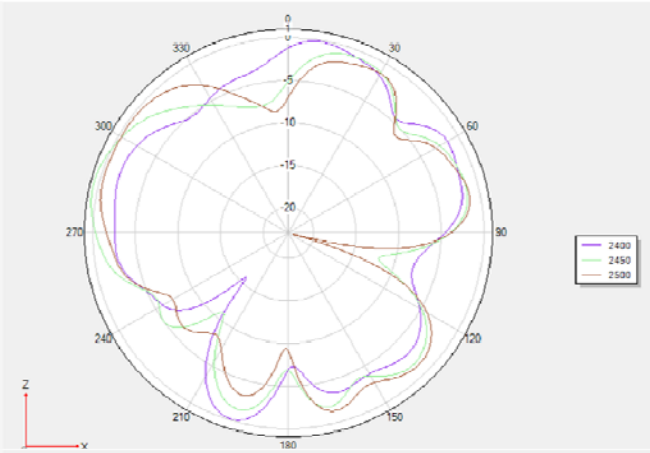
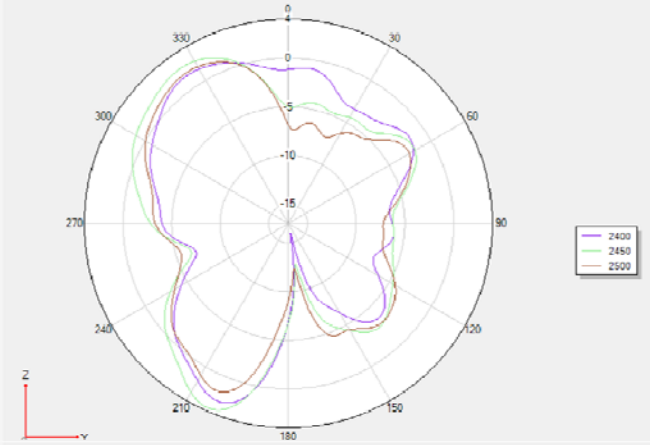
Radiation Pattern For WiFi0 Antenna

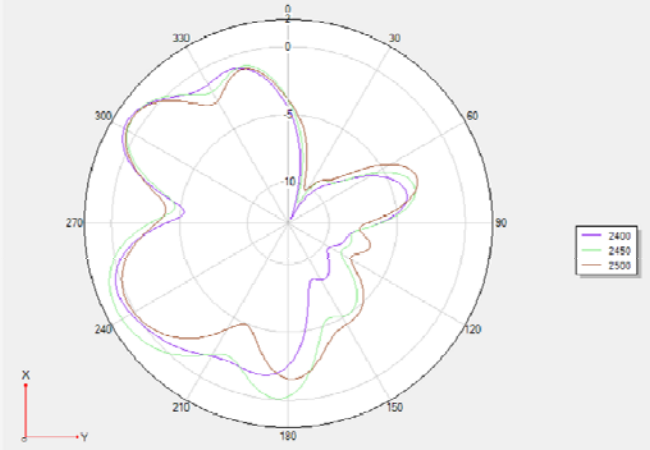
Phi 0°



Phi 90°



Theta 90°



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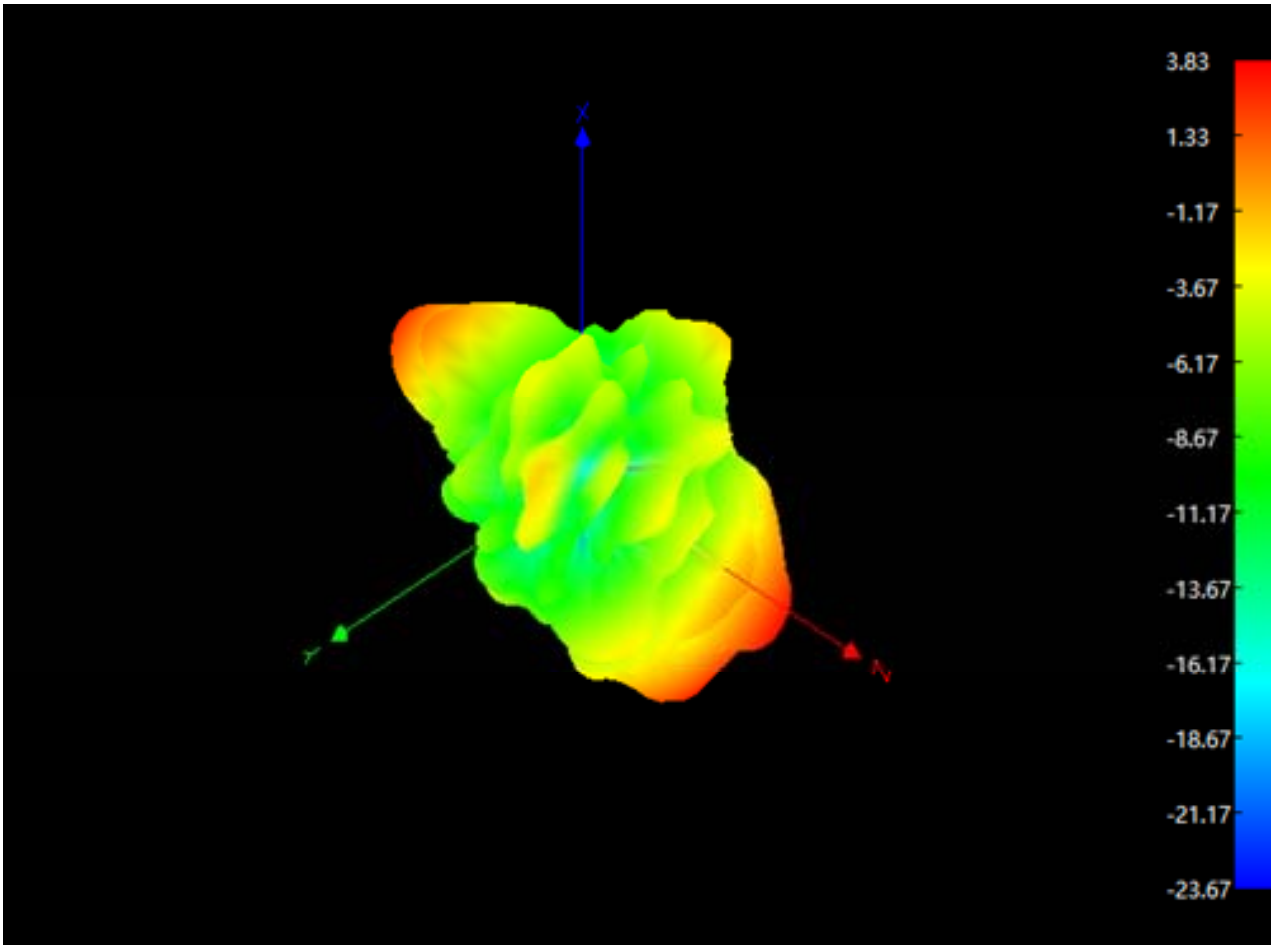
Radiation Pattern For WiFi0 Antenna（5150MHz）



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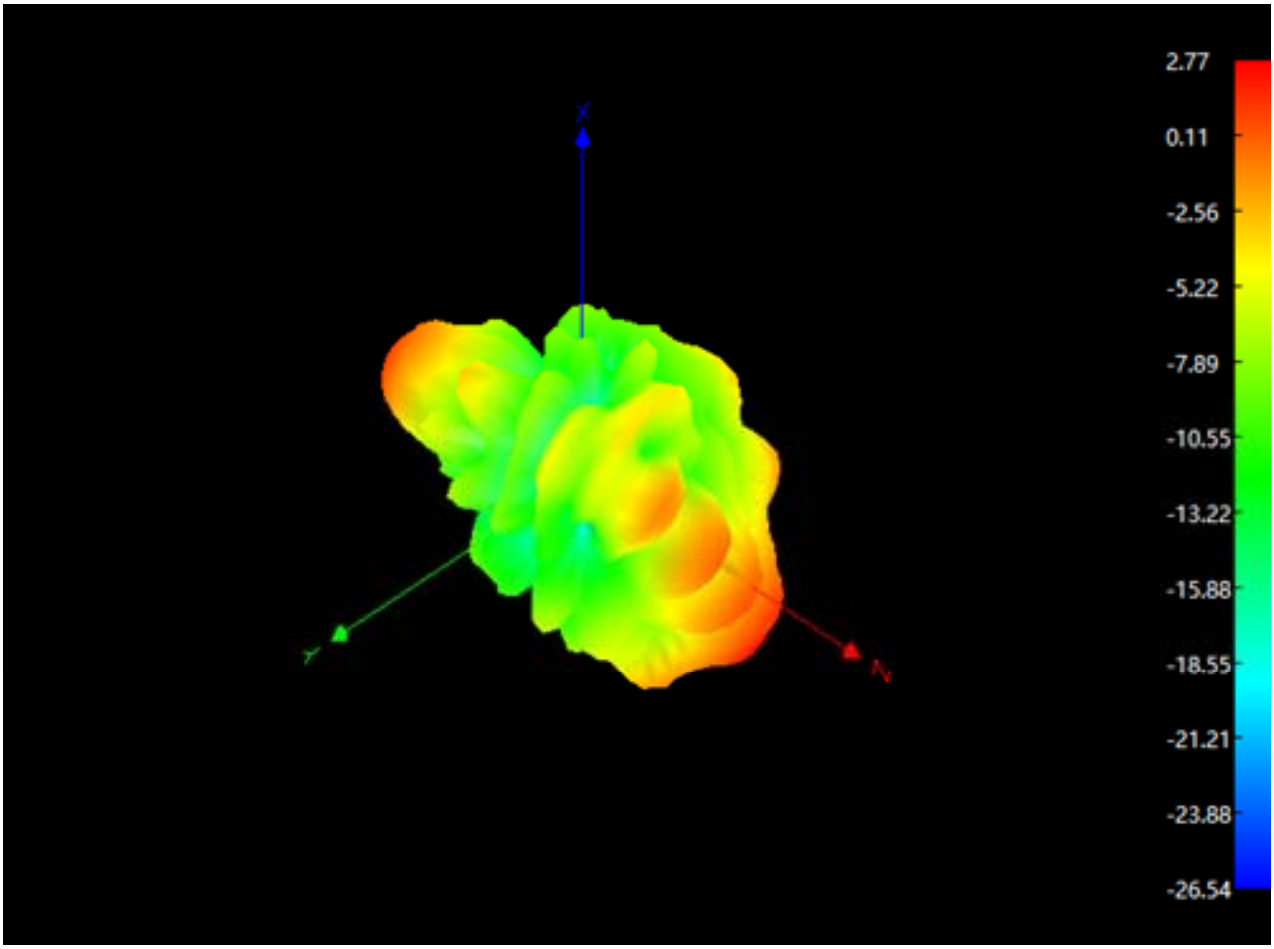
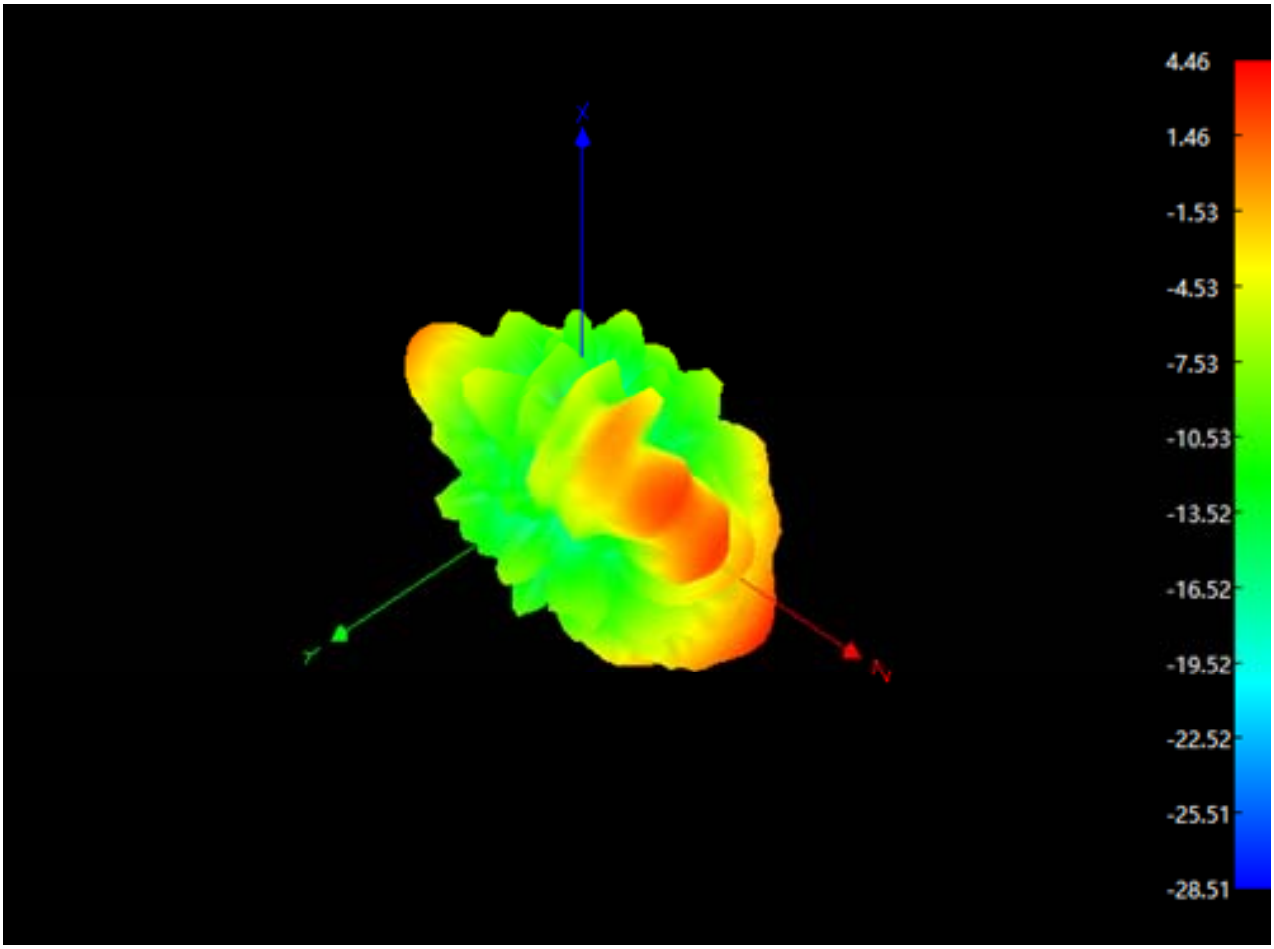
Radiation Pattern For WiFi0 Antenna（5500MHz）

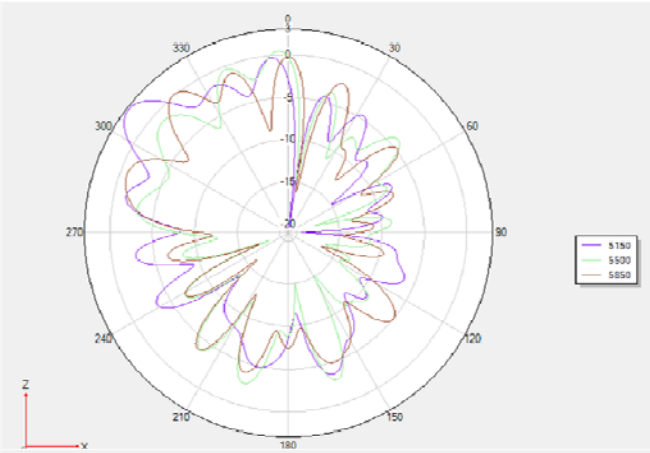


Radiation Pattern For WiFi0 Antenna（5850MHz）

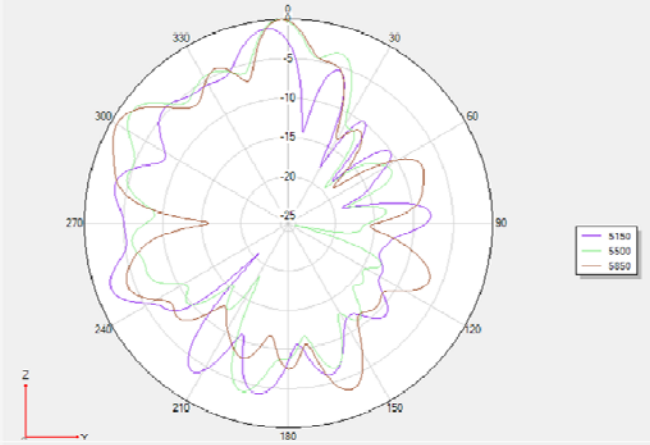


Radiation Pattern For WiFi0 Antenna

Phi 0°



Phi 90°



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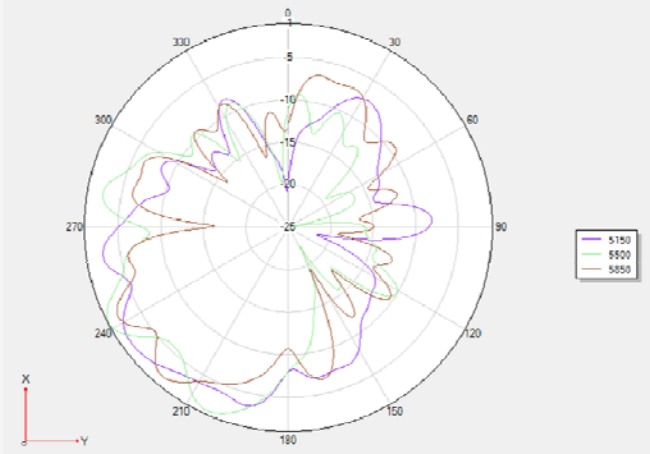

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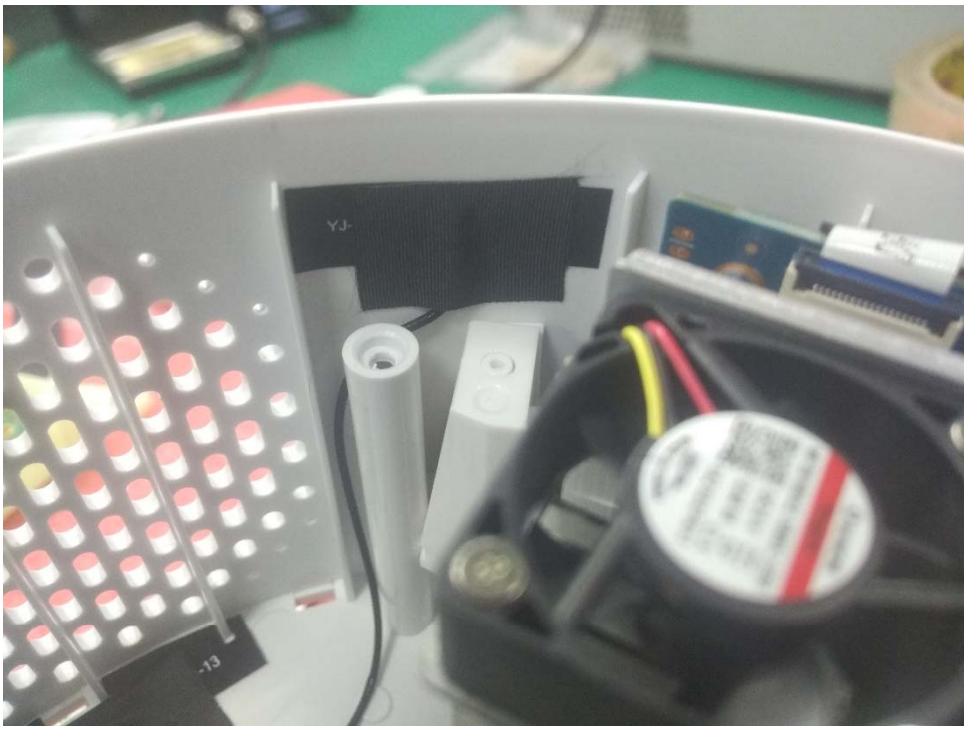
Active Test For WIFI0							
Band	**Channel**	**Data Rate**	**TRP**	**EIRP**	**Data Rate**	**TIS**	**EIS**
WIFI 802.11a	36	6Mbps	14.8	18.8	54Mbps	-78.1	-82.1
	149		15.3	19.6		-77.2	-81.3
	165		15.1	19.3		-76.5	-80.5
WIFI 802.11b	1	11Mbps	15.5	19.4	11Mbps	-84.0	-87.9
	6		16.0	20.4		-85.5	-90.1
	11		16.3	21.0		-87.9	-92.5
WIFI 802.11g	1	6Mbps	14.8	19.0	54Mbps	-71.9	-76.5
	6		15.2	20.1		-74.0	-78.8
	11		15.8	20.8		-74.7	-79.9

Device	

WiFi0 Antenna	

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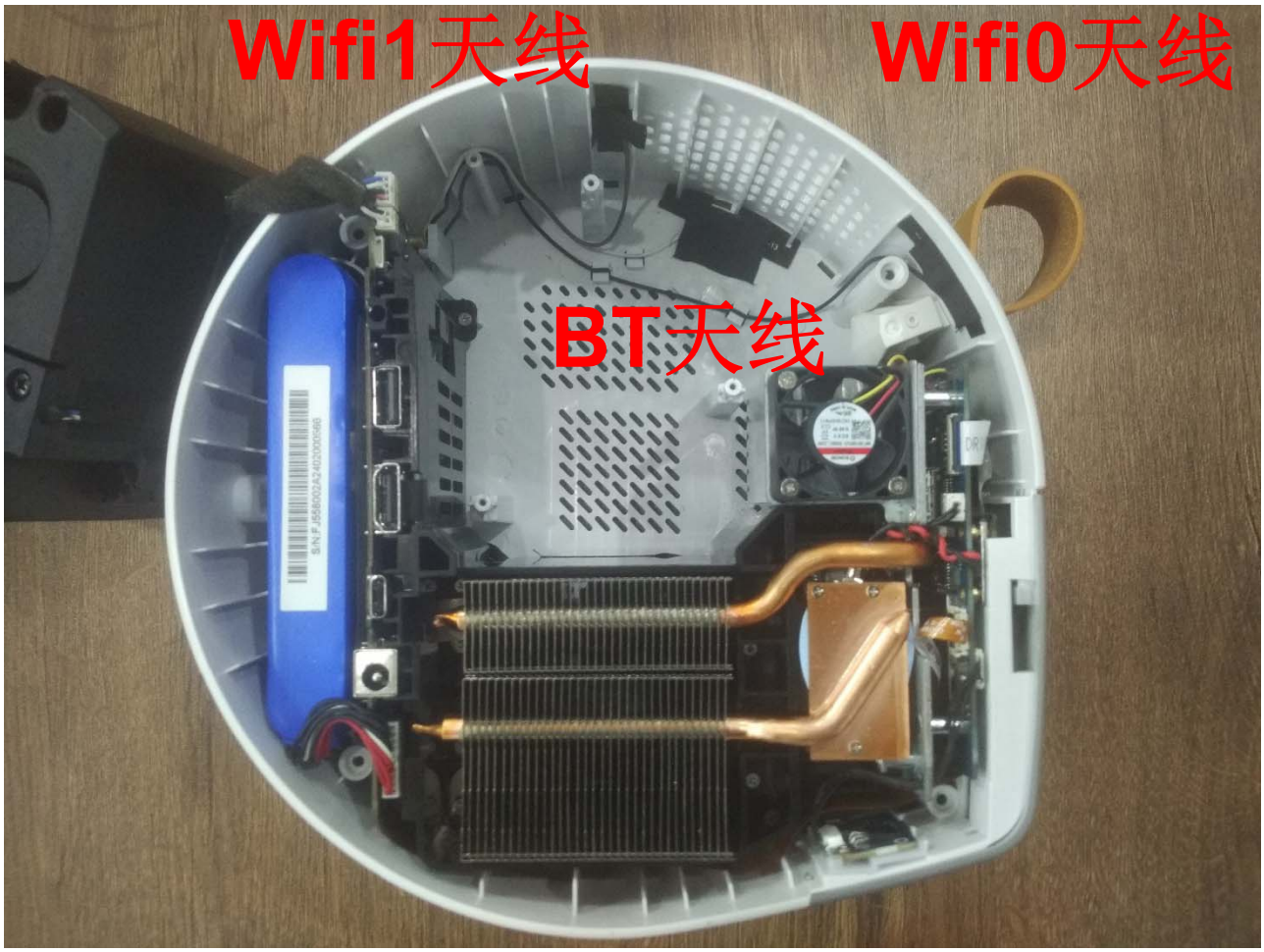

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