



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 2023/09/13

编号  
File No 23091301

版本  
Revision 1.0

客户  
CUSTOMER:

道通

客户料号

CUSTOMER NO:

501006528

品名

PART NAME:

2.4/5.8G Antenna

供方料号

SUPPLIER NO:

YJI01.005.067.301A


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



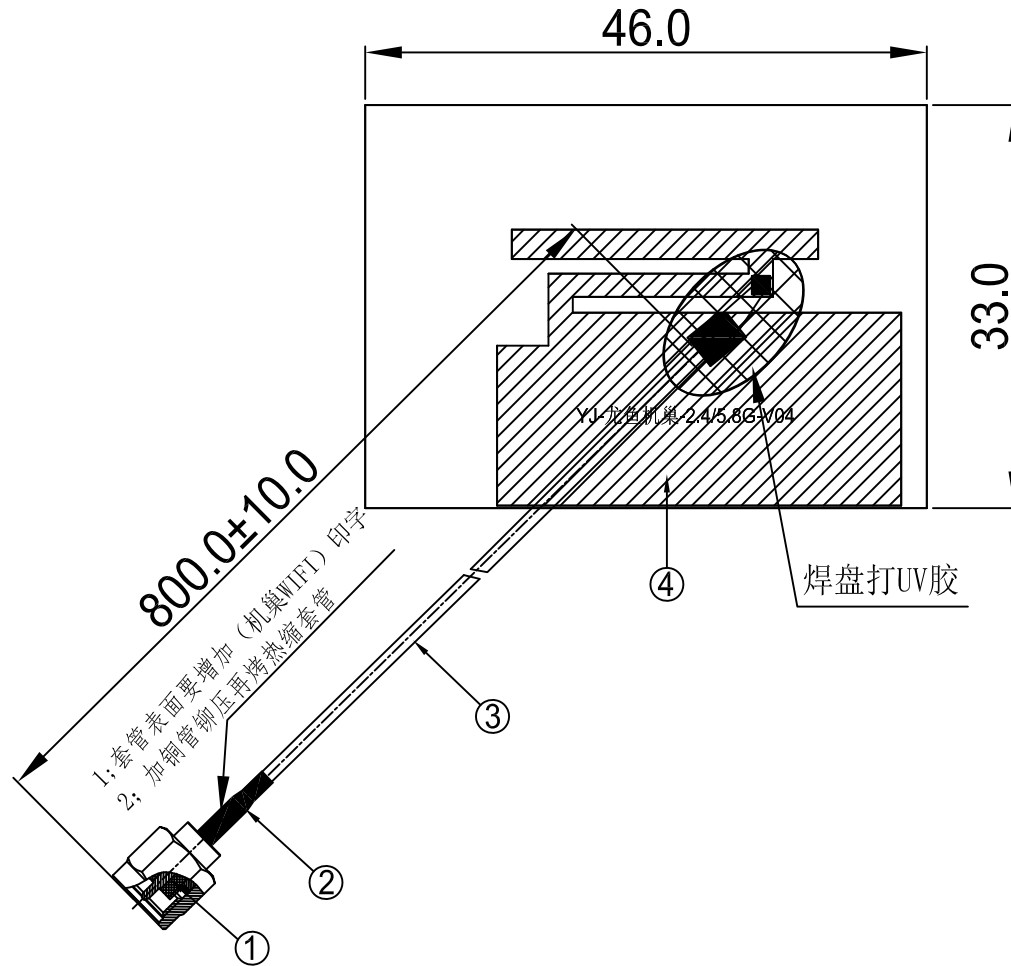
# 承认书项目表

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**RoHS**  
Compatible

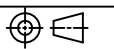
CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
△	首次发行	2022-11-08
△	套管表面增加WIFI丝印	2022-11-15
△	修改焊盘尺寸	2022-11-16



4	FPCB	46.0*33.0MM	FPCB	FPC1000XA.P01	1
3	Coaxial Cable	O.D.1.8 Black Low loss 神宇	O.D.1.8	COA1000XA.P01	1
2	Hot Shrink Tube	L20.0mm/Ø3.0mm	EVA	TUB1000XA.P01	1
1	SMA Male	Cu Au Plated	Cu	CON10046A.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY


**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: 2.4/5.8G Antenna			
PART NO.: YJI01.005.067.301A		DATE: 2022-11-16	
APPROVED BY	CHECKED BY	DESIGNED BY	 Tolerance X.X ±0.50 X.XX±0.15 X° ±3°
殷涛	唐国浩	吕森桦	
UNITS: mm SCALE: 1/1 REVISION: A			



# 天线规格

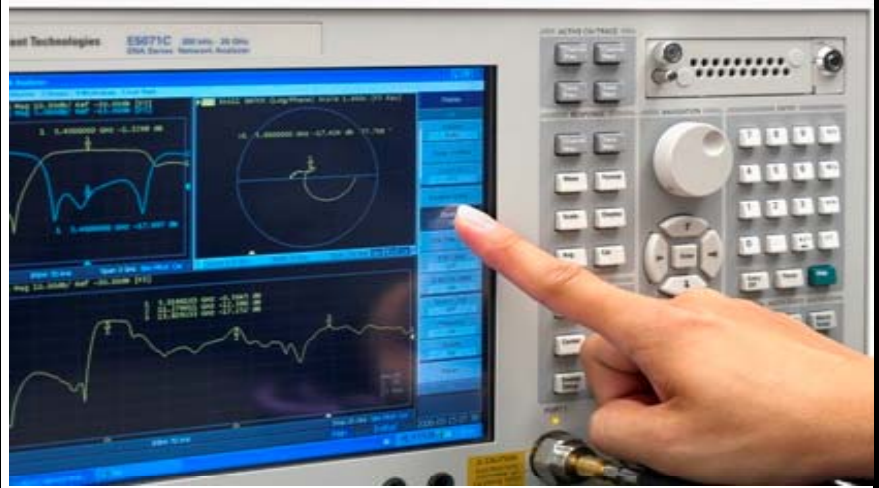
## Antenna Specification

<b>Electrical Properties</b>	
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	6.7 dBi@2.4-2.5GHz 4.0 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
<b>Physical Properties</b>	
Connector	SMA Male
Cable Type	O.D.1.8mm 低损耗神宇
Cable Length	800mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25 ± 5 °C / <70%

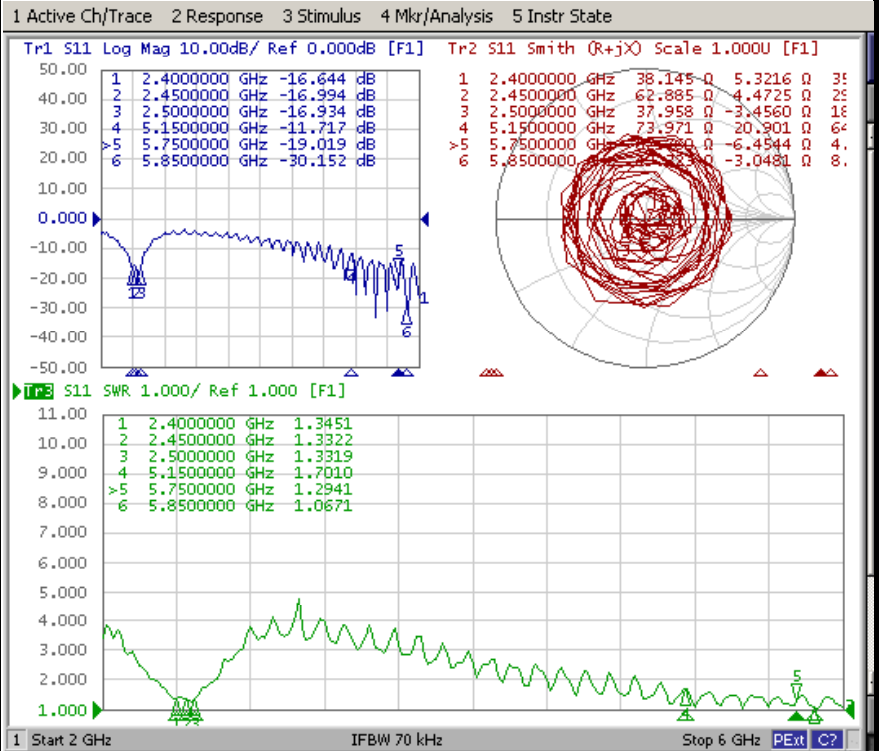


# Antenna Performance Test

**Agilent  
E5071B**

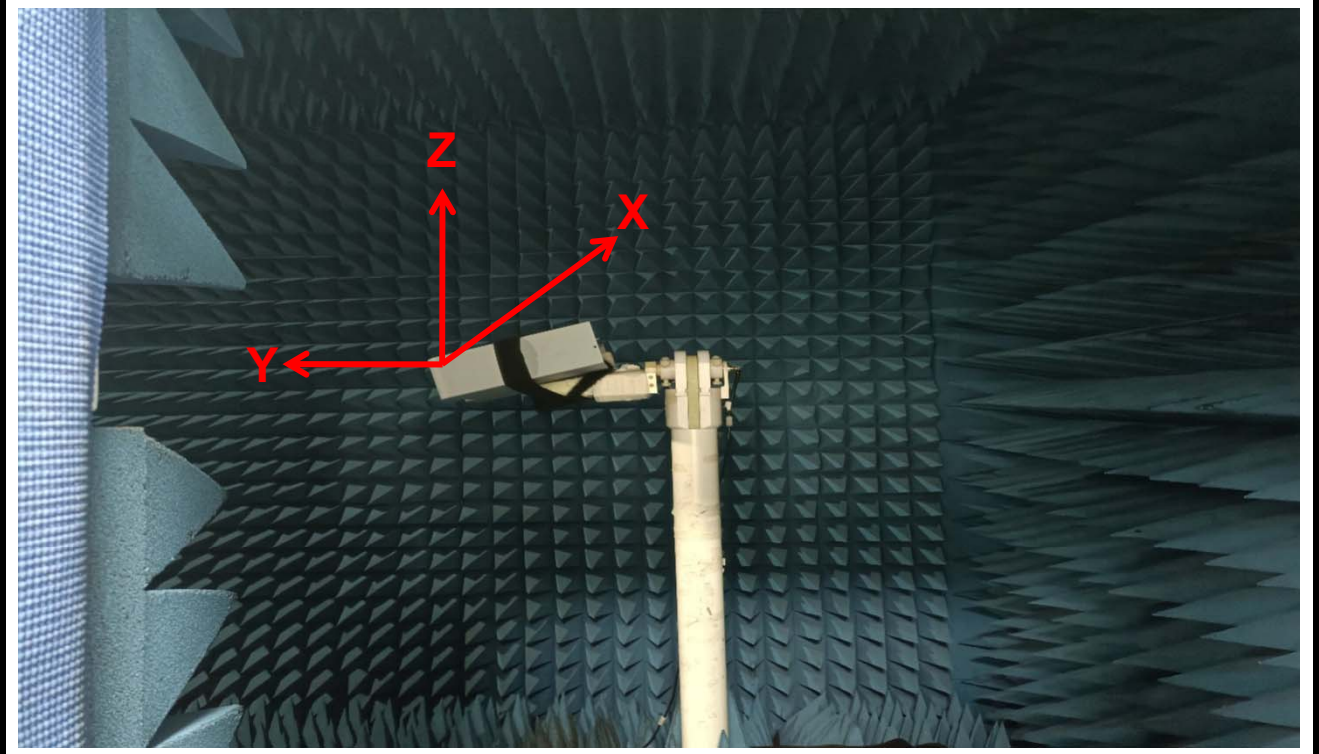
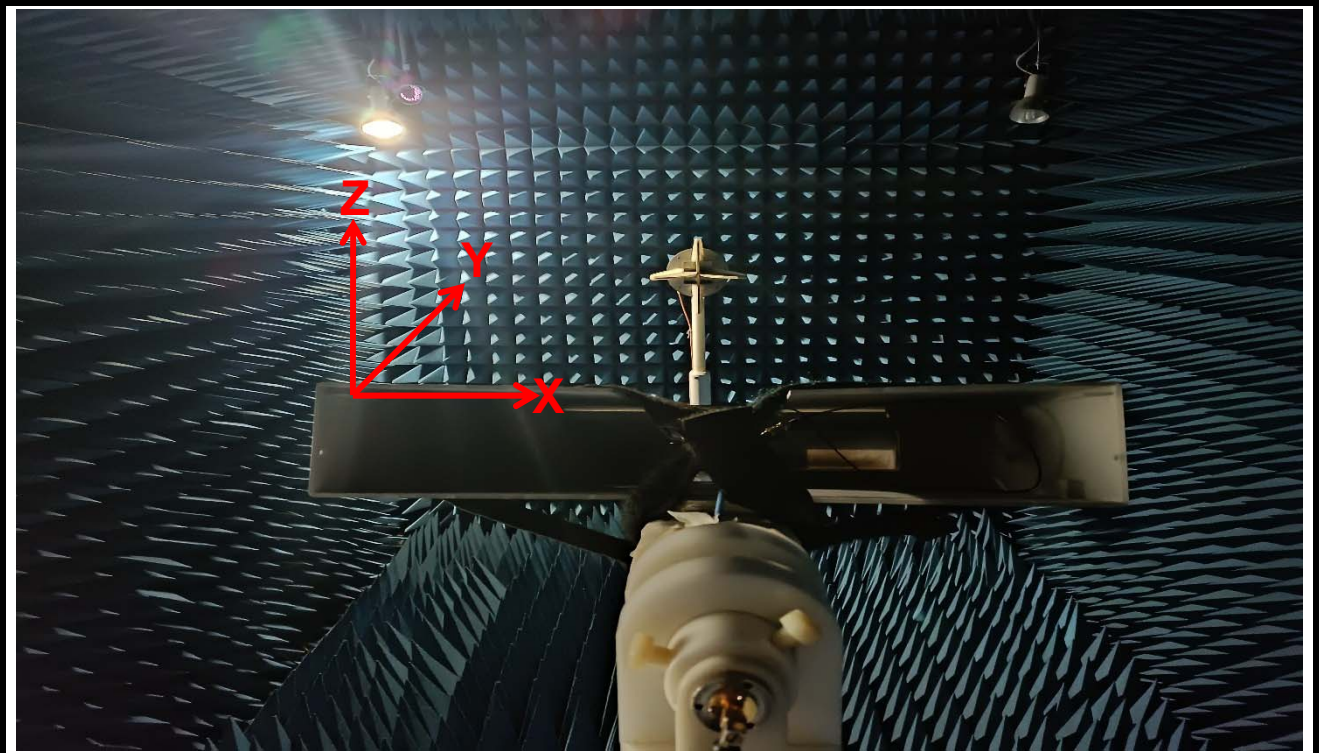


**S  
Parameter  
Test //  
WiFi  
Antenna**





## *Antenna Passive Test*





Passive Test For WiFi2.4G			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	67.0	-1.7	6.7
2410	65.2	-1.9	6.5
2420	62.5	-2.0	6.1
2430	61.8	-2.1	6.1
2440	59.2	-2.3	5.8
2450	58.8	-2.3	5.9
2460	57.7	-2.4	5.7
2470	62.8	-2.0	6.4
2480	62.8	-2.0	6.2
2490	67.0	-1.7	6.7
2500	65.2	-1.9	6.5



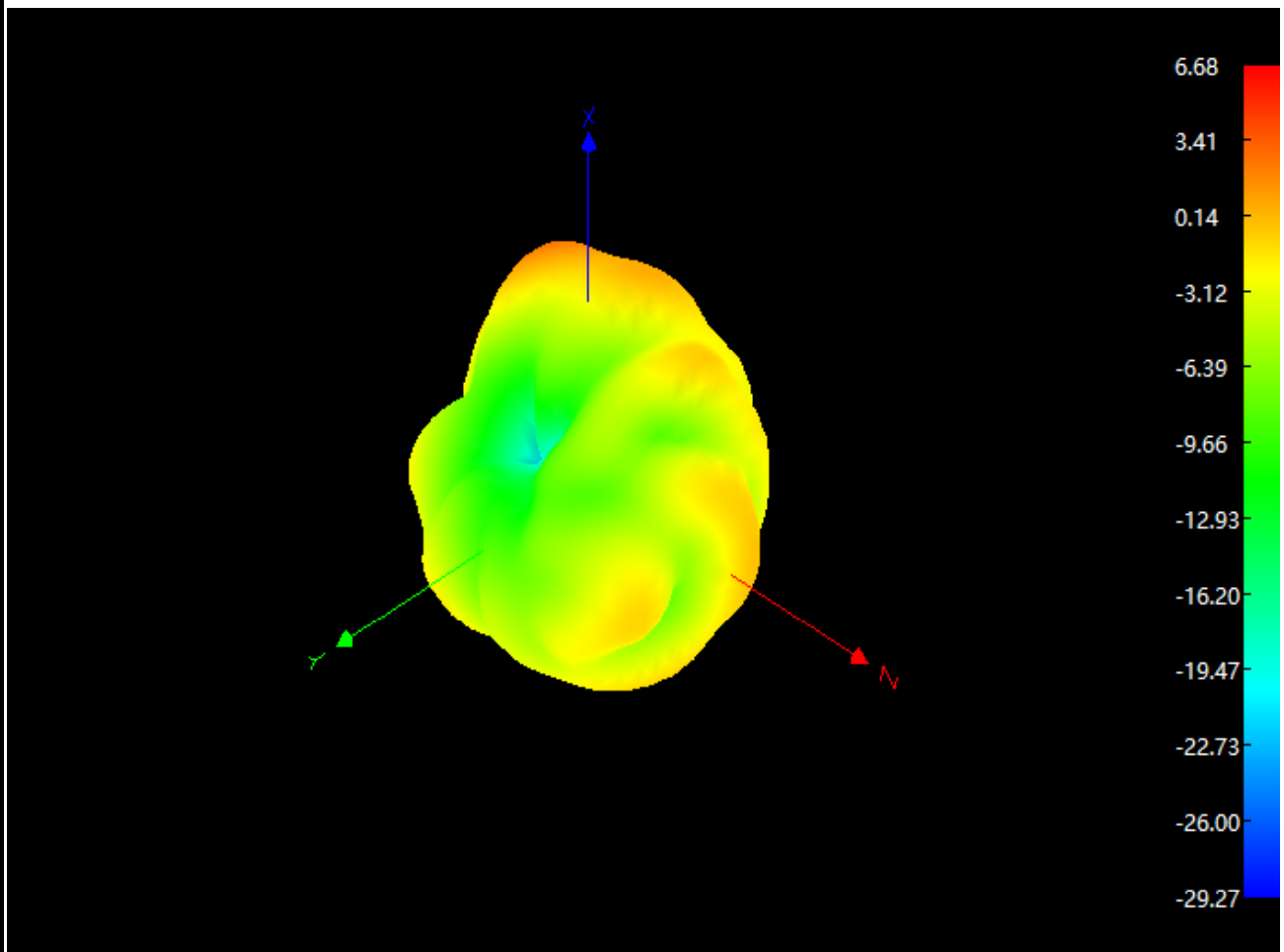
### Passive Test For WiFi5.8G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	62.8	-2.0	2.6
5200	61.5	-2.1	2.6
5250	59.8	-2.2	2.8
5300	58.2	-2.4	2.6
5350	57.2	-2.4	2.5
5400	60.3	-2.2	3.0
5450	58.8	-2.3	2.8
5500	52.7	-2.8	2.6
5550	59.3	-2.3	3.3
5600	57.8	-2.4	3.1
5650	50.8	-2.9	2.6
5700	51.5	-2.9	2.9
5750	57.3	-2.4	3.4
5800	58.6	-2.3	4.0
5850	50.0	-3.0	3.4



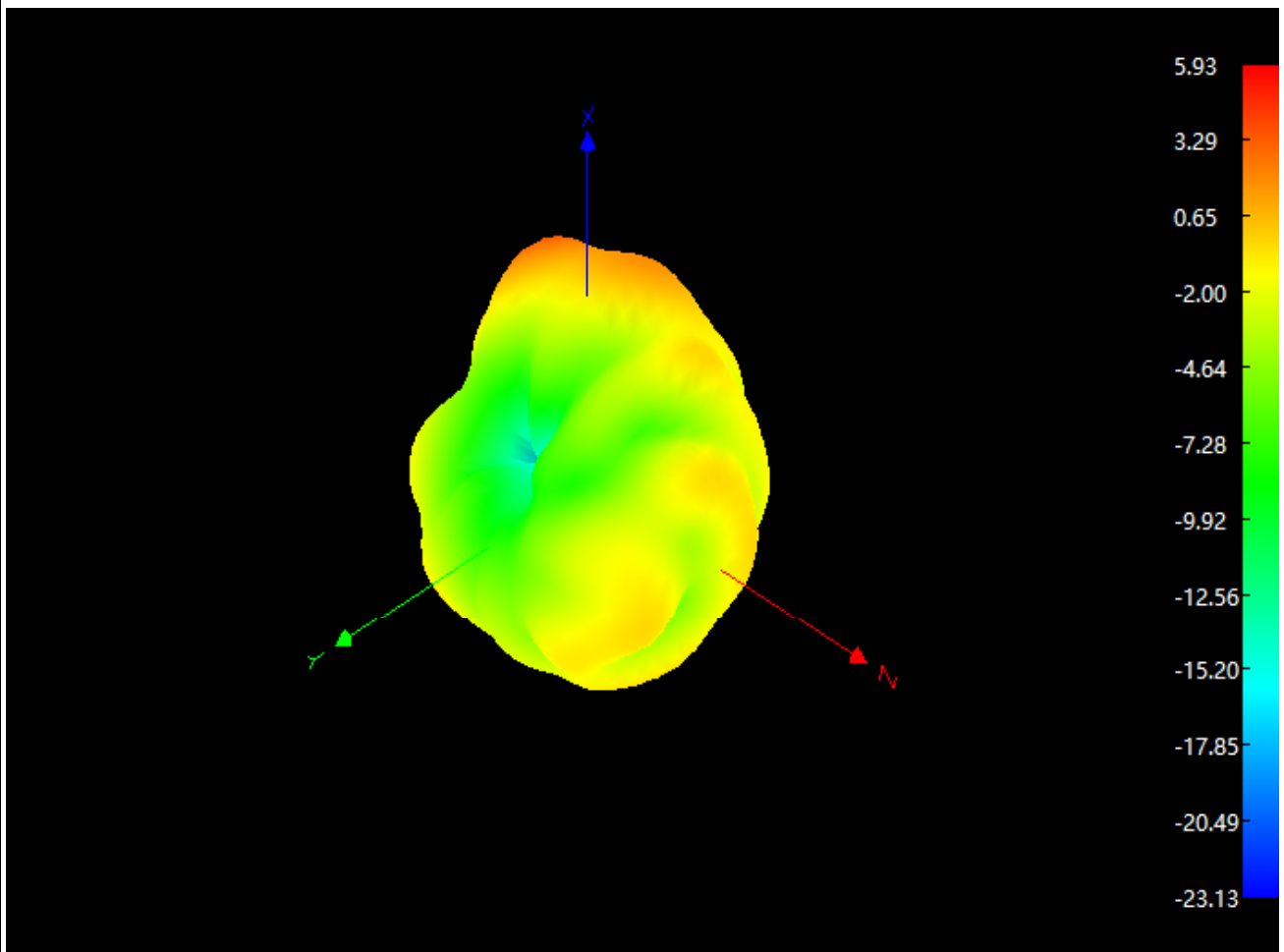


## Radiation Pattern For WiFi Antenna(2.4G)



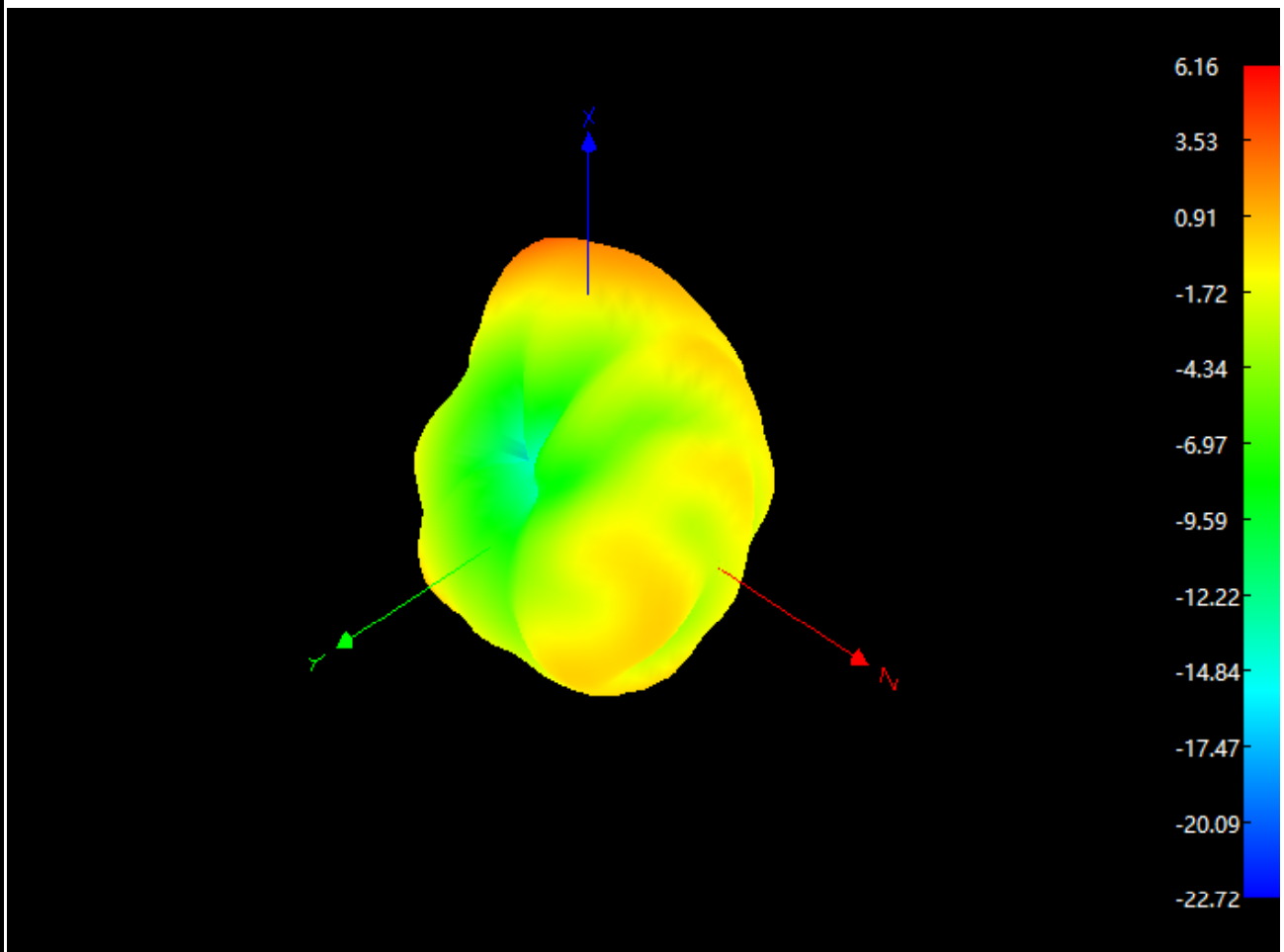


## Radiation Pattern For WiFi Antenna(2.45G)



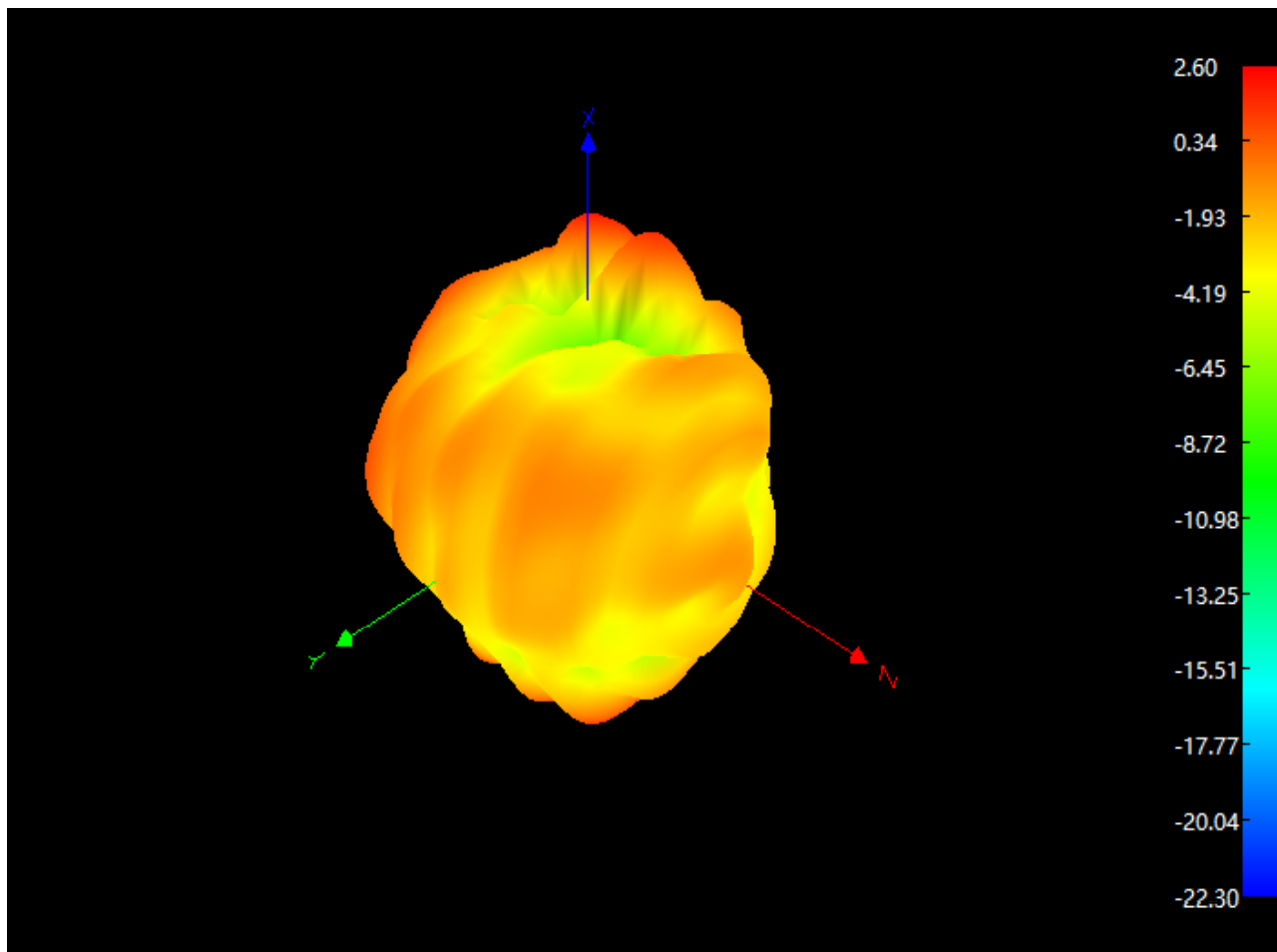


## Radiation Pattern For WiFi Antenna(2.48G)



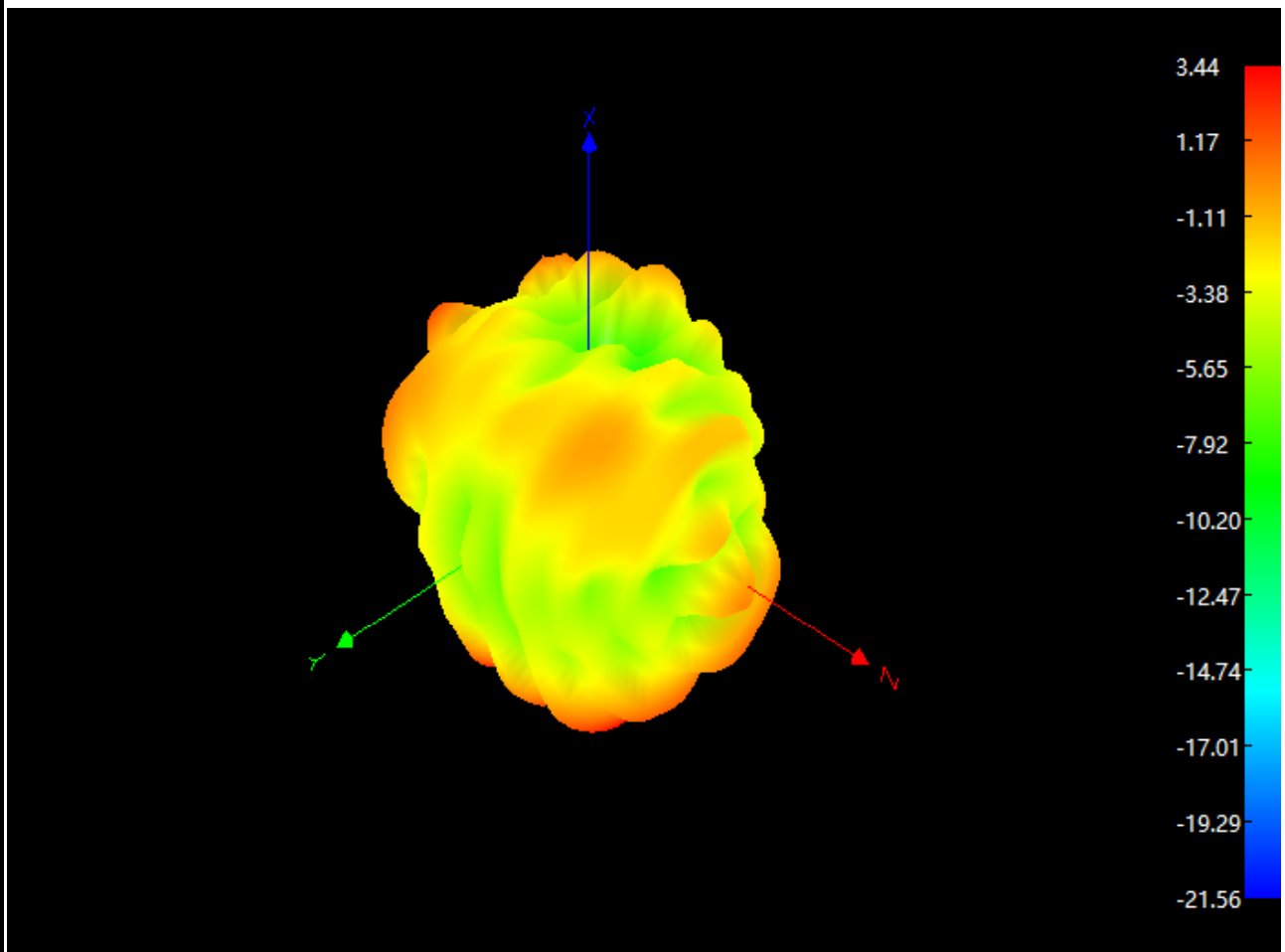


## Radiation Pattern For WiFi Antenna(5.15G)





## Radiation Pattern For WiFi Antenna(5.8G)





## Radiation Pattern For WiFi Antenna(5.85G)

