



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	2023/11/13
编号 File No	23111303
版本 Revision	1.0

客户
CUSTOMER: 方位

客户料号
CUSTOMER NO: LEADA100047A0

品名
PART NAME: WIFI Antenna L=180mm MHF

供方料号
SUPPLIER NO: YJL01.106.059.303A

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



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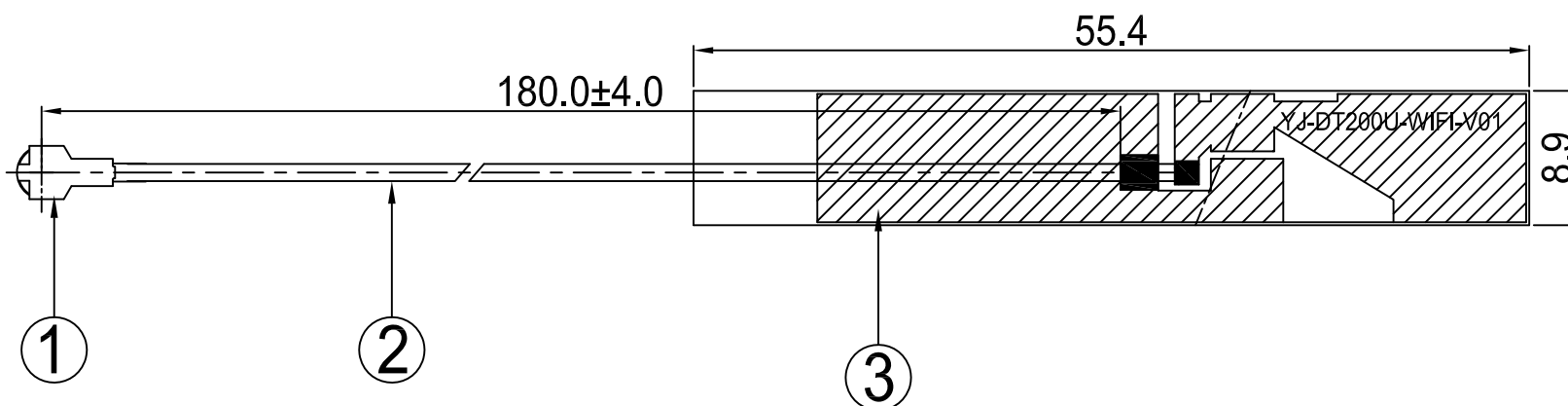
Compatible

PART NO

DATE _____

2023-07-19

2023-07-20



3	FPC	55.4*8.9mm	FPC	FPC11XXXA.P01	1
2	Coaxial Cable	O.D.0.81 Black	O.D.0.81	COA100XXA.P01	1
1	Mini Connector	Au Plated 3代	Cu	TER100XXA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



Tel:0769-82586086
Fax:0769-82586086

PART NAME: WIFI Antenna L=180mm MHF

PART NO.: YJL01.106.059.303A

DATE: 2023-07-20

DESIGNED BY



廖光喜

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
Gain	5.7 dBi@2.4-2.5GHz 5.3 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

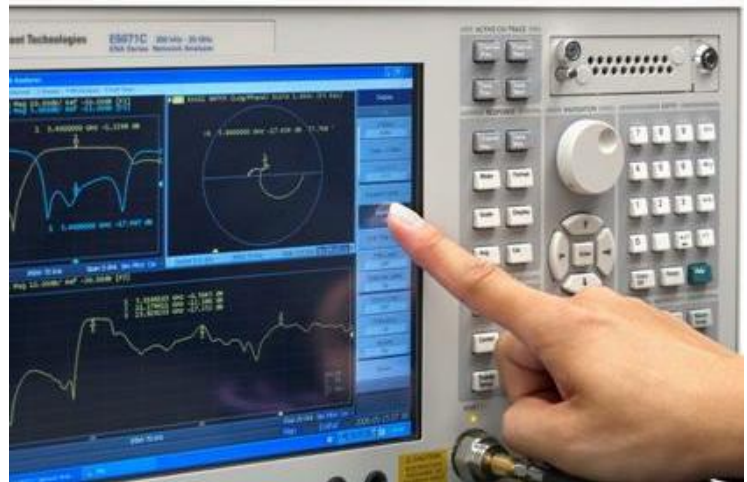
Physical Properties

Connector	3代IPEX
Cable Type	O.D.0.81mm
Cable Length	180mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

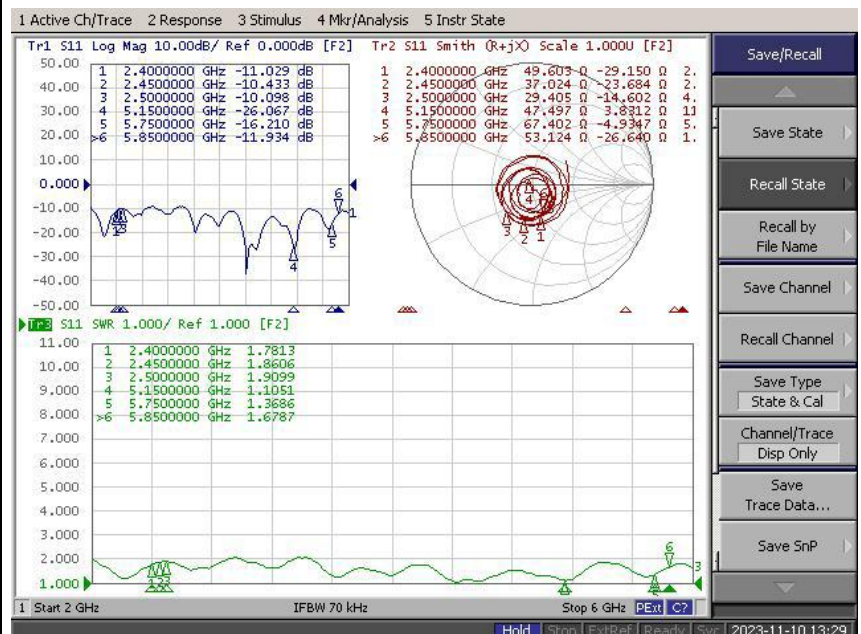


Antenna Performance Test

**Agilent
E5071B**

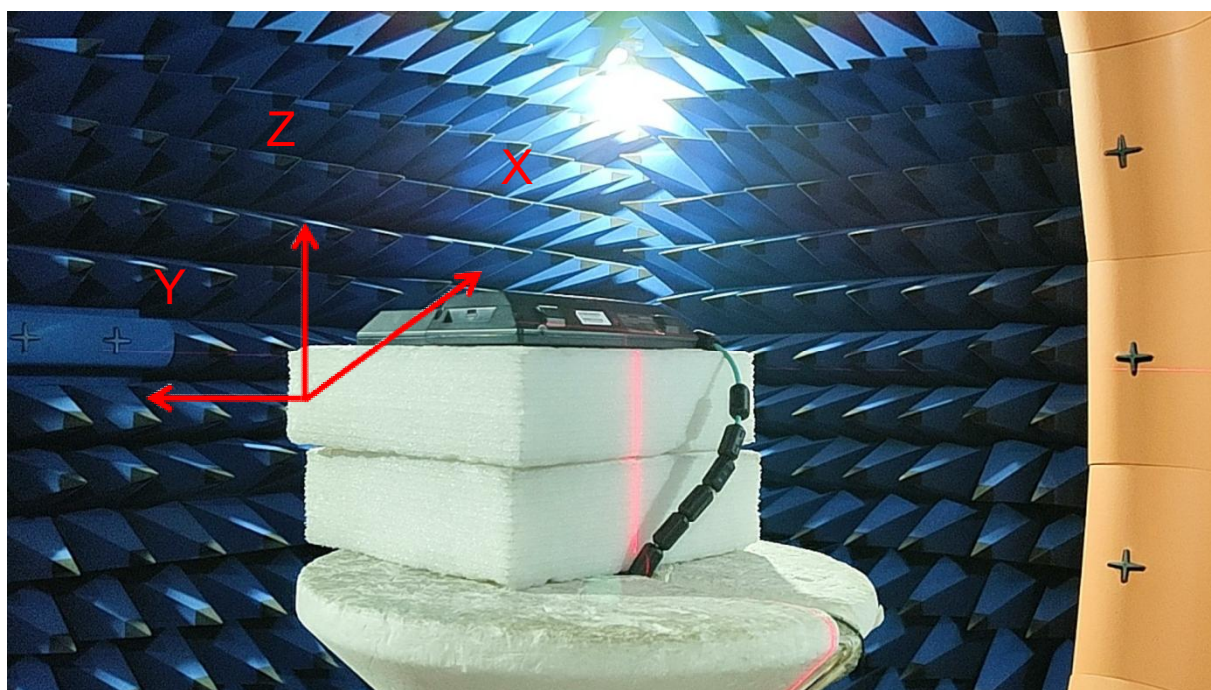
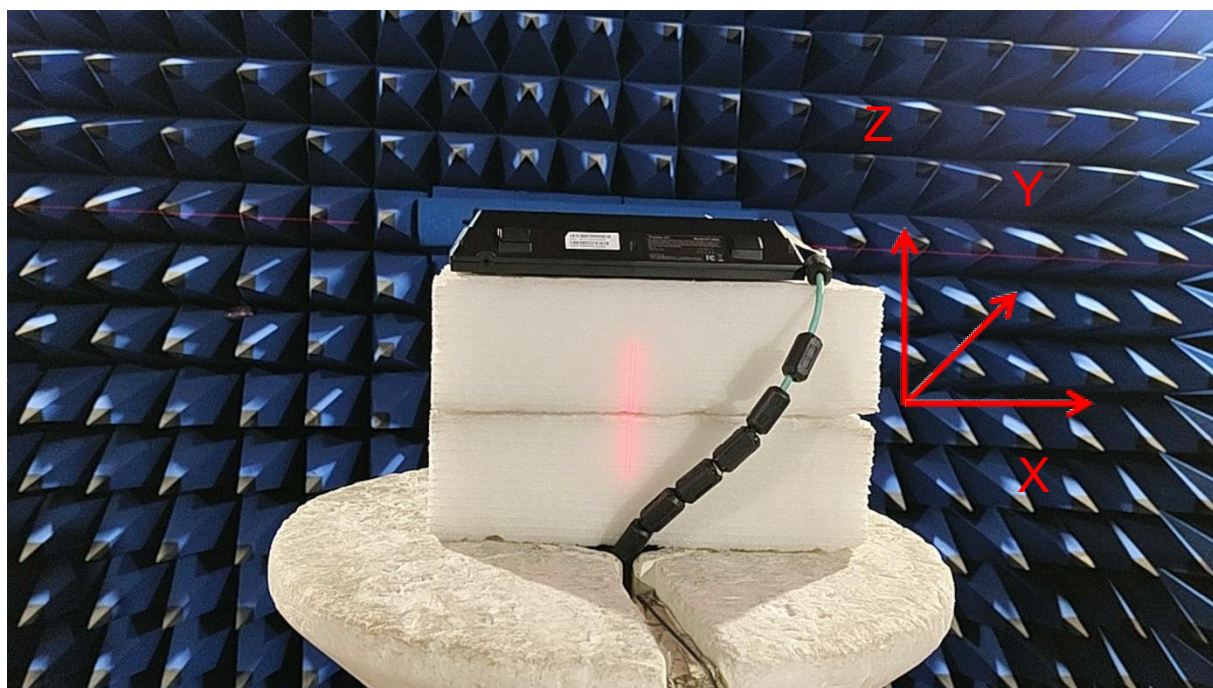


**S
Parameter
Test //
WiFi
Antenna**





Antenna Passive Test





Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	61.2	-2.1	5.0
2410	61.4	-2.1	4.9
2420	60.5	-2.2	4.8
2430	61.4	-2.1	4.9
2440	61.8	-2.1	4.9
2450	64.6	-1.9	5.3
2460	61.8	-2.1	5.1
2470	65.3	-1.9	5.7
2480	63.1	-2.0	5.5
2490	64.6	-1.9	5.7
2500	61.2	-2.1	5.4

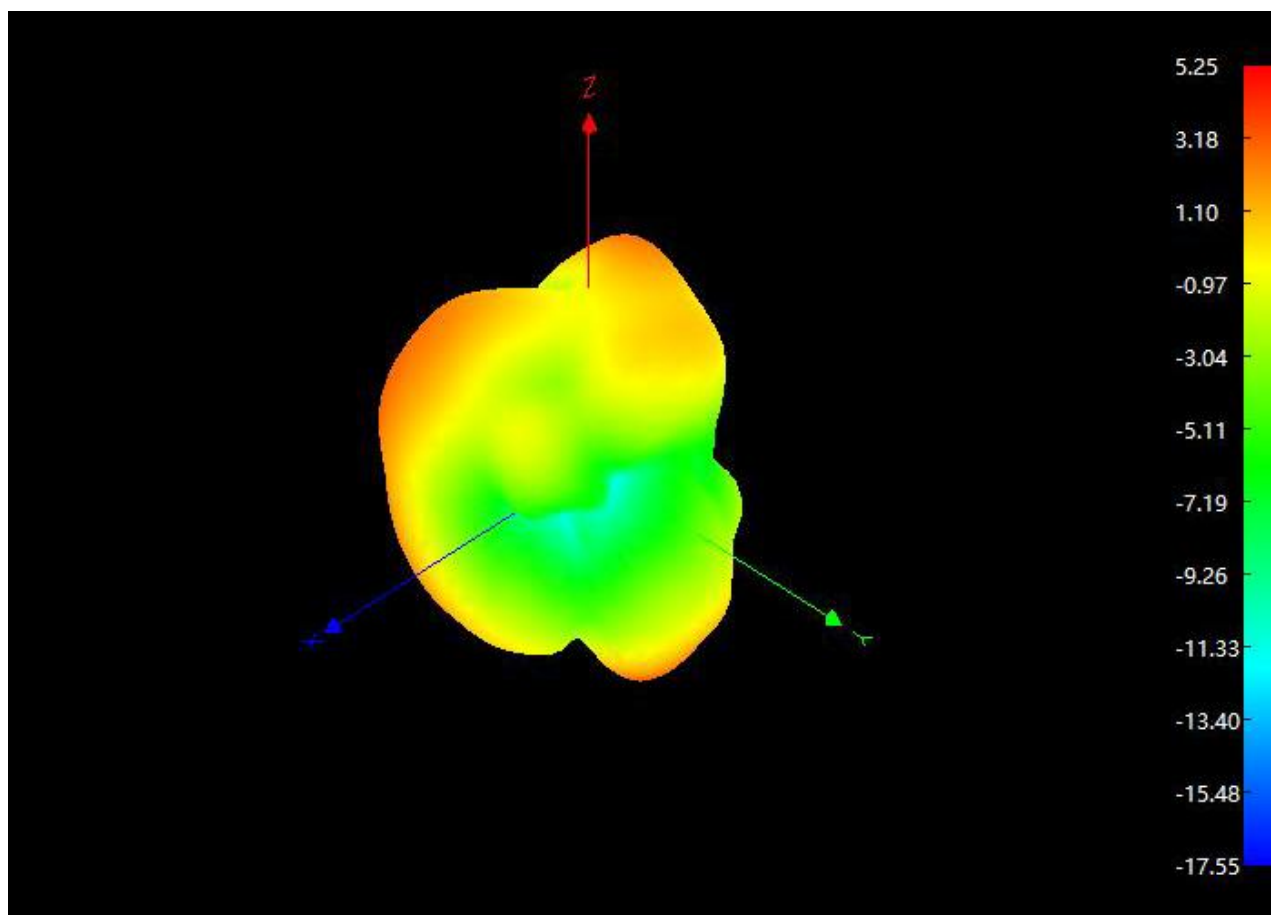


Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	61.7	-2.1	3.6
5200	62.7	-2.0	3.8
5250	63.2	-2.0	4.1
5300	61.7	-2.1	4.0
5350	59.4	-2.3	4.0
5400	62.8	-2.0	4.3
5450	59.2	-2.3	4.2
5500	53.6	-2.7	3.8
5550	61.5	-2.1	4.9
5600	65.8	-1.8	5.1
5650	59.8	-2.2	5.1
5700	64.1	-1.9	5.3
5750	65.9	-1.8	5.2
5800	58.5	-2.3	4.4
5850	60.0	-2.2	4.4

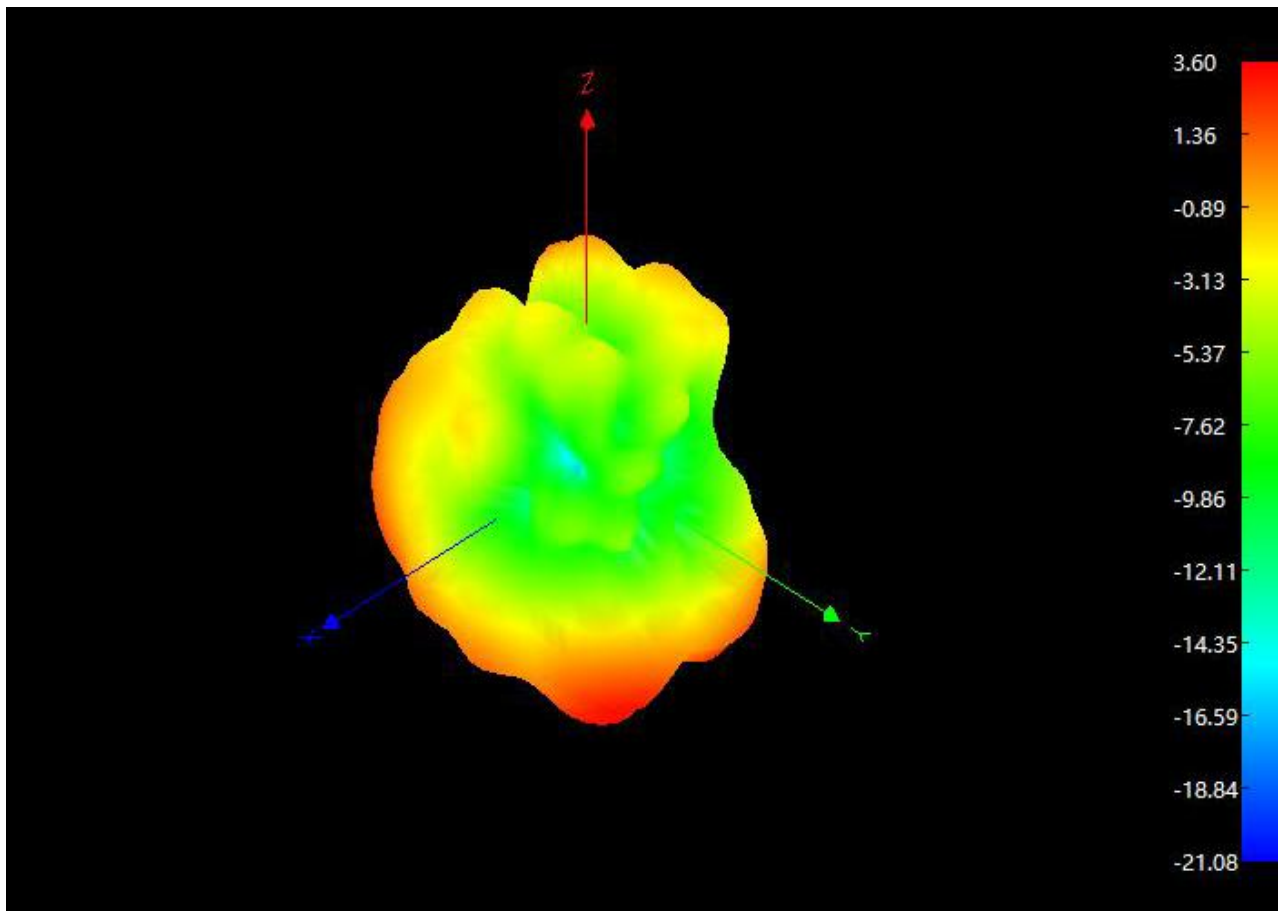


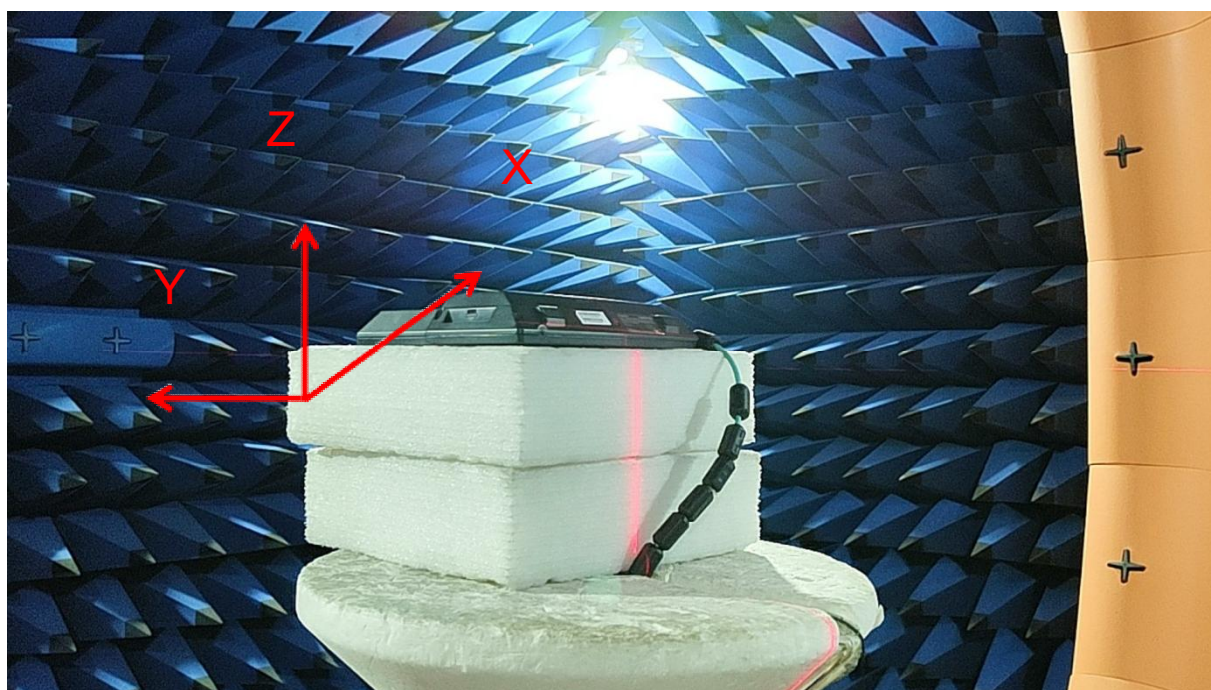
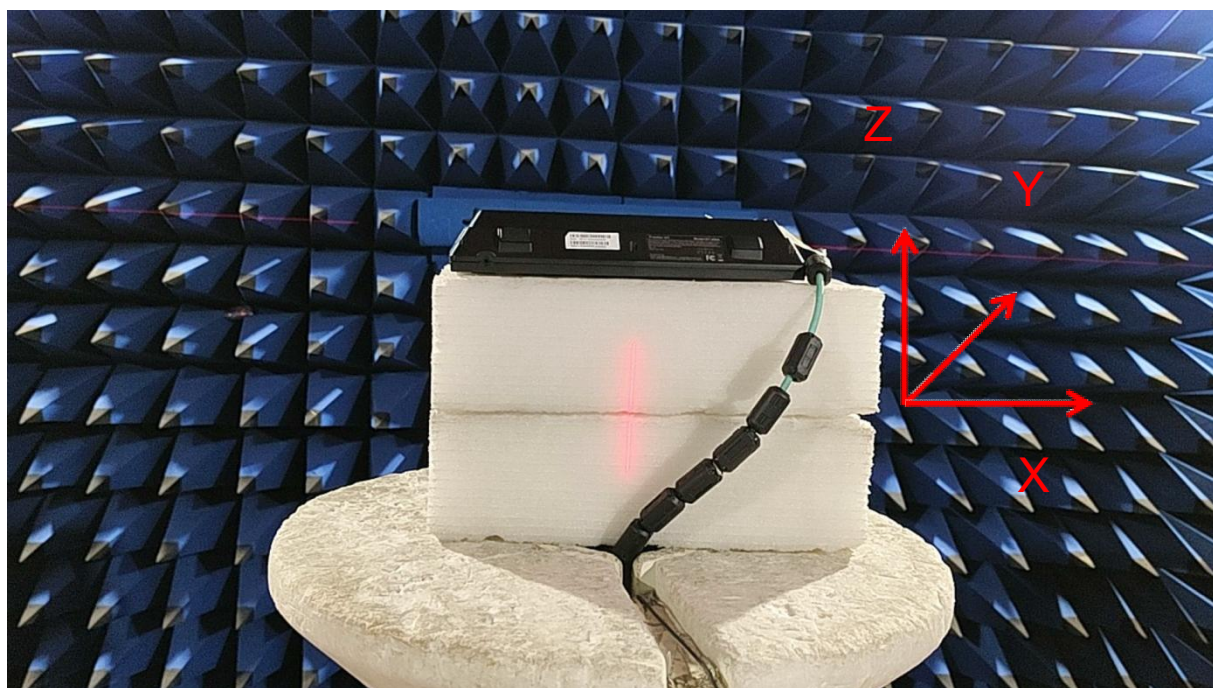
Radiation Pattern For WiFi Antenna(2450MHz)





Radiation Pattern For WiFi Antenna(5150MHz)







Active Test For WiFi Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	12.7	11Mbps	-84.4
	6		12.8		-84.0
	11		13.4		-84.0
WIFI 5G 802.11a	36	6Mbps	11.2	54Mbps	-71.9
	64		11.0		-70.6
	165		11.4		-70.2

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Device





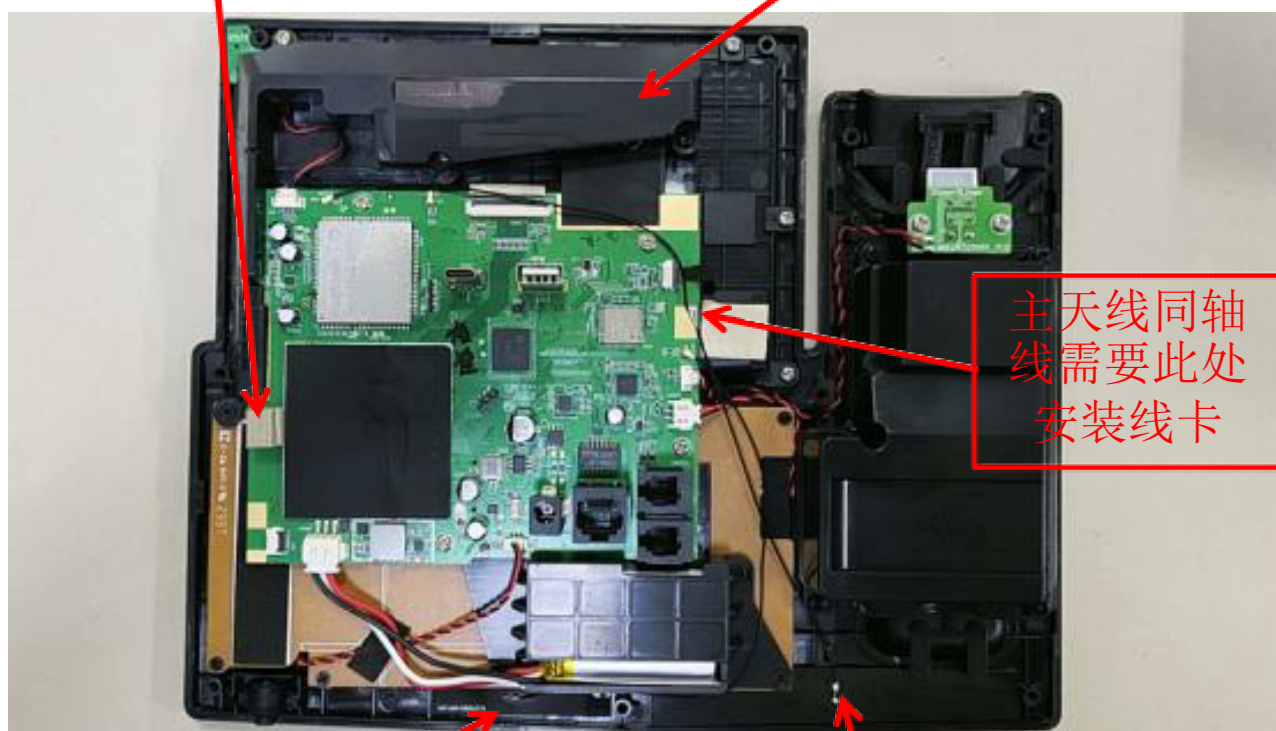
WiFi Antenna





主板需要使用导电海绵与卡座接地

4Gdiv天线



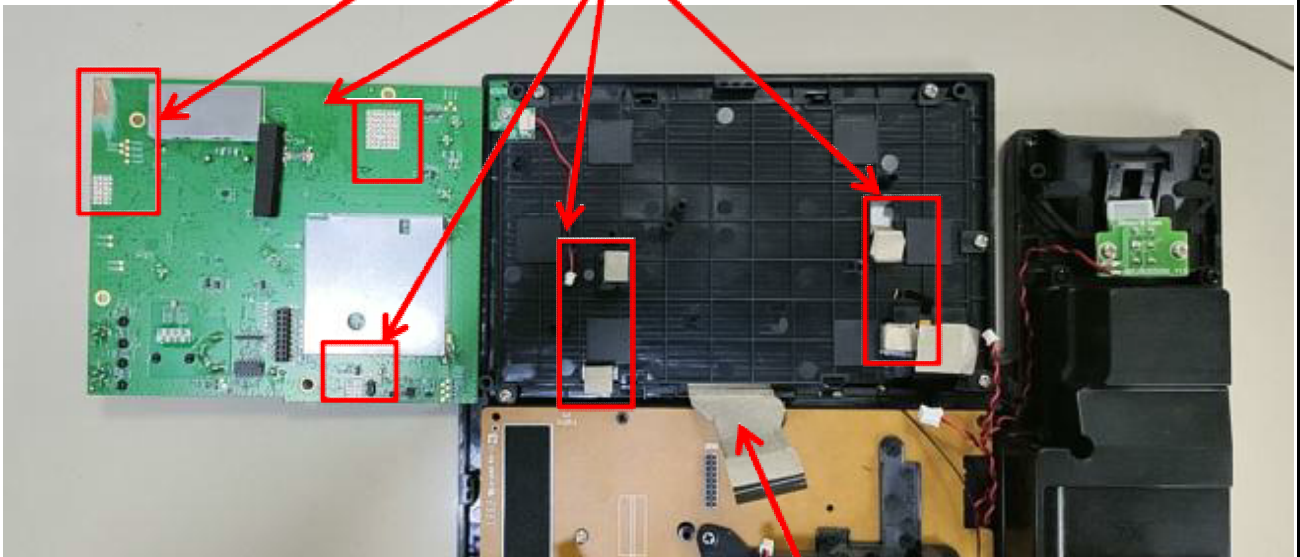
主天线同轴线需要此处安装线卡

WiFi天线

4Gmain天线



主板需要使用导电泡棉
与屏幕接地



屏排线需要导电
布屏蔽