



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	2024/08/01
编号 File No	24080102
版本 Revision	1.0

客户
CUSTOMER:

Fanvil

客户料号
CUSTOMER NO:

LEADA100057A0

品名
PART NAME:

WIFI Antenna

供方料号
SUPPLIER NO:

YJL01.106.071.302A

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
Add: Yuanfu Industrial Zone, No. 59, Muyu Road, Shatou Community, Chang'an Town, Dongguan City



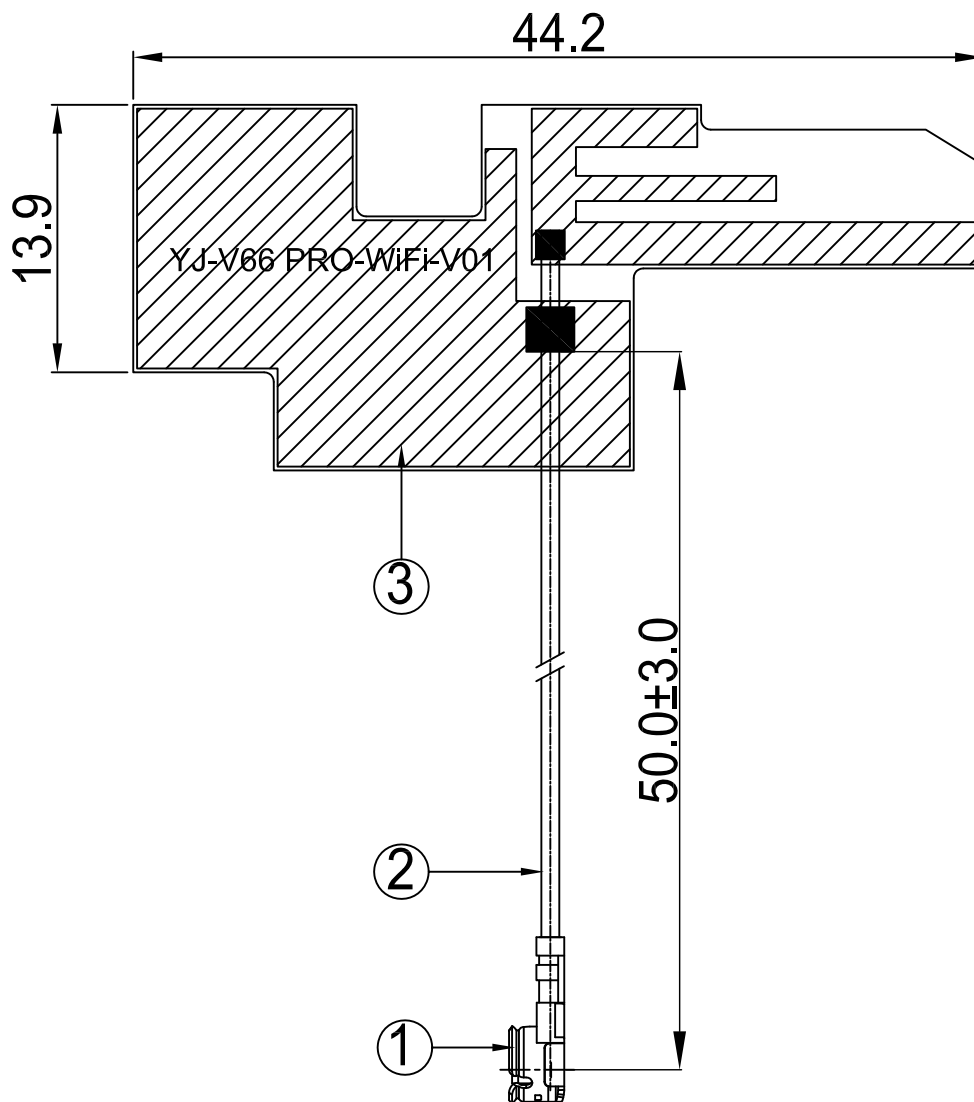
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RoHS
Compatible

CUSTOMER

PART NO



3	FPC Black	44.2*13.9mm	FPCB	FPC10XXXA.P01	1
2	Coaxial Cable	O.D.1.13 Black	O.D.1.13	COA10XXXA.P01	1
1	Mini Connector	Au Plated 1代	Cu	TER10XXXA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



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	4.2 dBi@2.4-2.5GHz 5.2 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

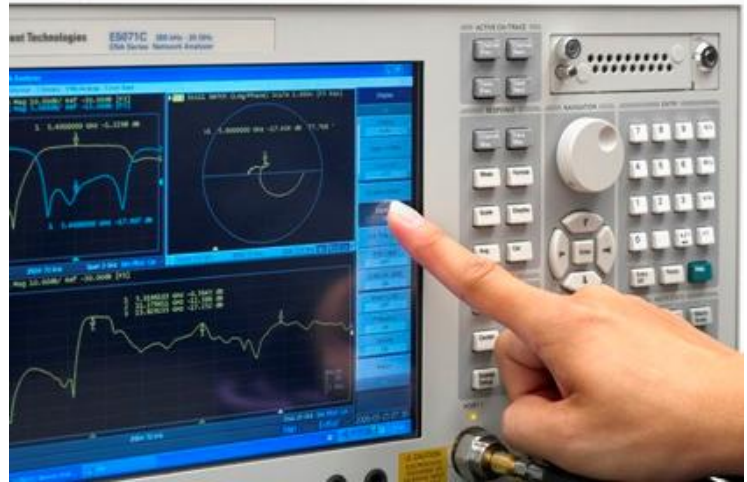
Physical Properties

Connector	IPEX
Cable Type	O.D.1.13mm
Cable Length	50mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

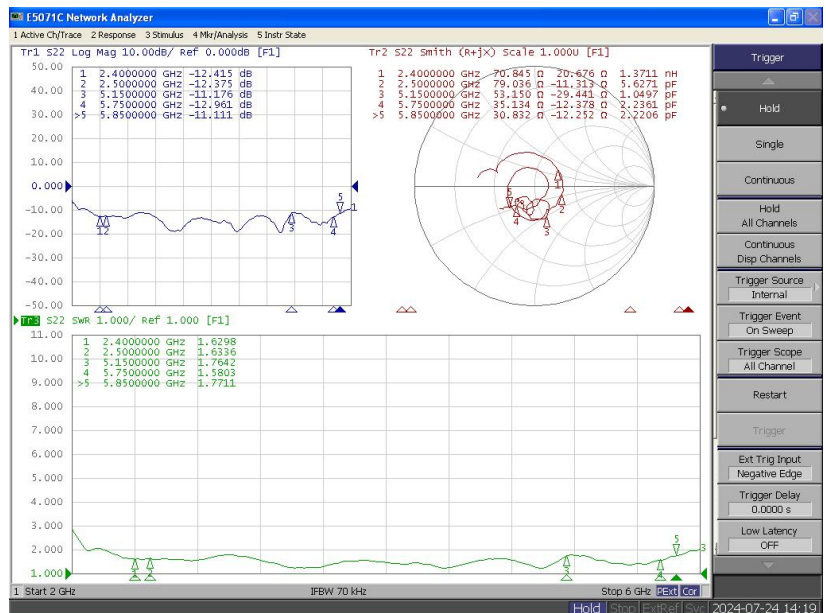


Antenna Performance Test

**Agilent
E5071B**

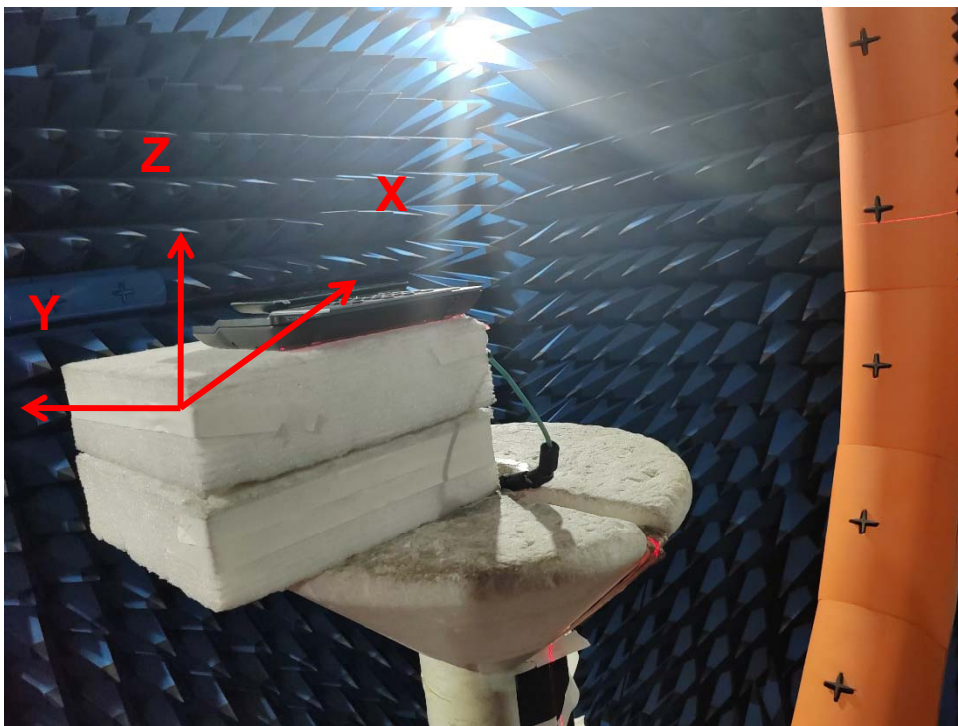
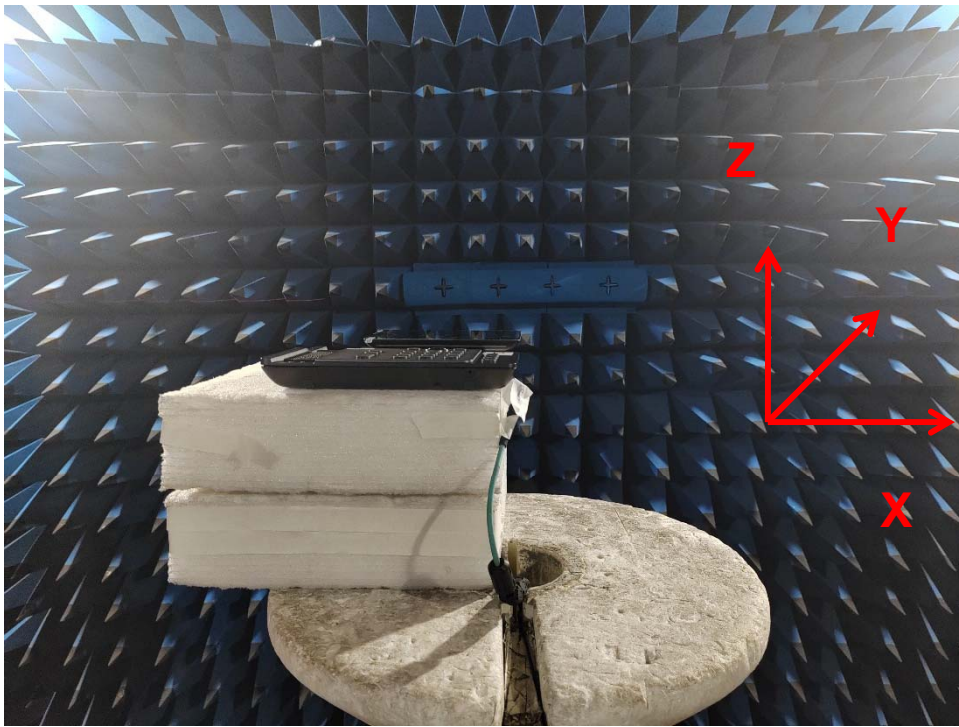


**S
Parameter
Test //
WiFi
Antenna**





Antenna Passive Test





Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	61.0	-2.2	4.2
2410	60.8	-2.2	4.1
2420	57.5	-2.4	3.9
2430	54.8	-2.6	3.8
2440	55.0	-2.6	3.8
2450	58.1	-2.4	4.1
2460	56.0	-2.5	3.8
2470	57.3	-2.4	4.1
2480	57.2	-2.4	4.0
2490	59.3	-2.3	4.2
2500	57.2	-2.4	3.8

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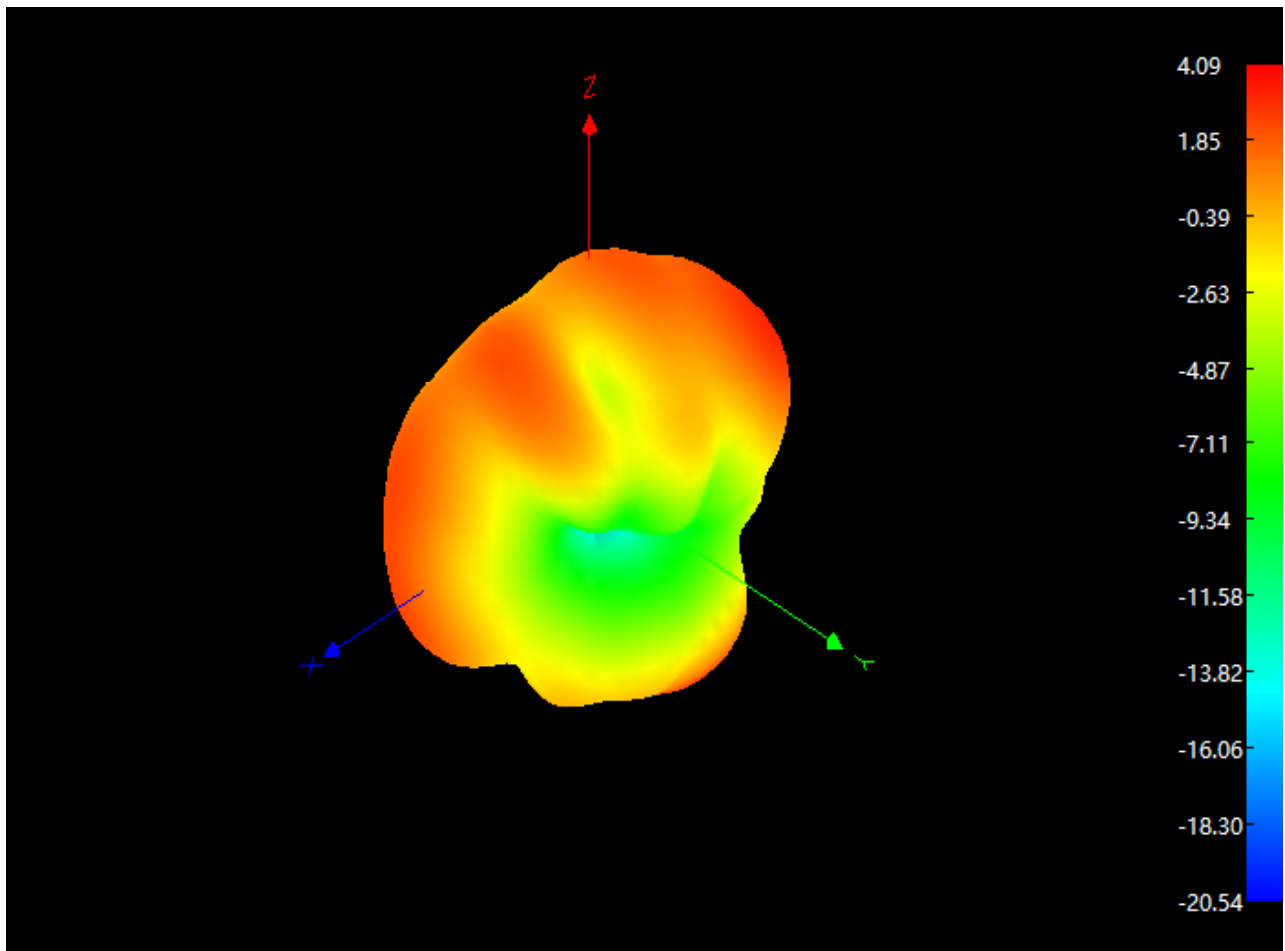
Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	56.9	-2.5	5.2
5200	52.5	-2.8	4.8
5250	56.0	-2.5	4.5
5300	54.7	-2.6	4.3
5350	54.2	-2.7	3.8
5400	59.5	-2.3	3.9
5450	56.3	-2.5	3.5
5500	50.5	-3.0	3.1
5550	50.0	-3.0	4.0
5600	51.6	-2.9	4.0
5650	52.3	-2.8	3.6
5700	54.7	-2.6	3.9
5750	53.0	-2.8	4.3
5800	55.0	-2.6	3.9
5850	53.7	-2.7	4.0

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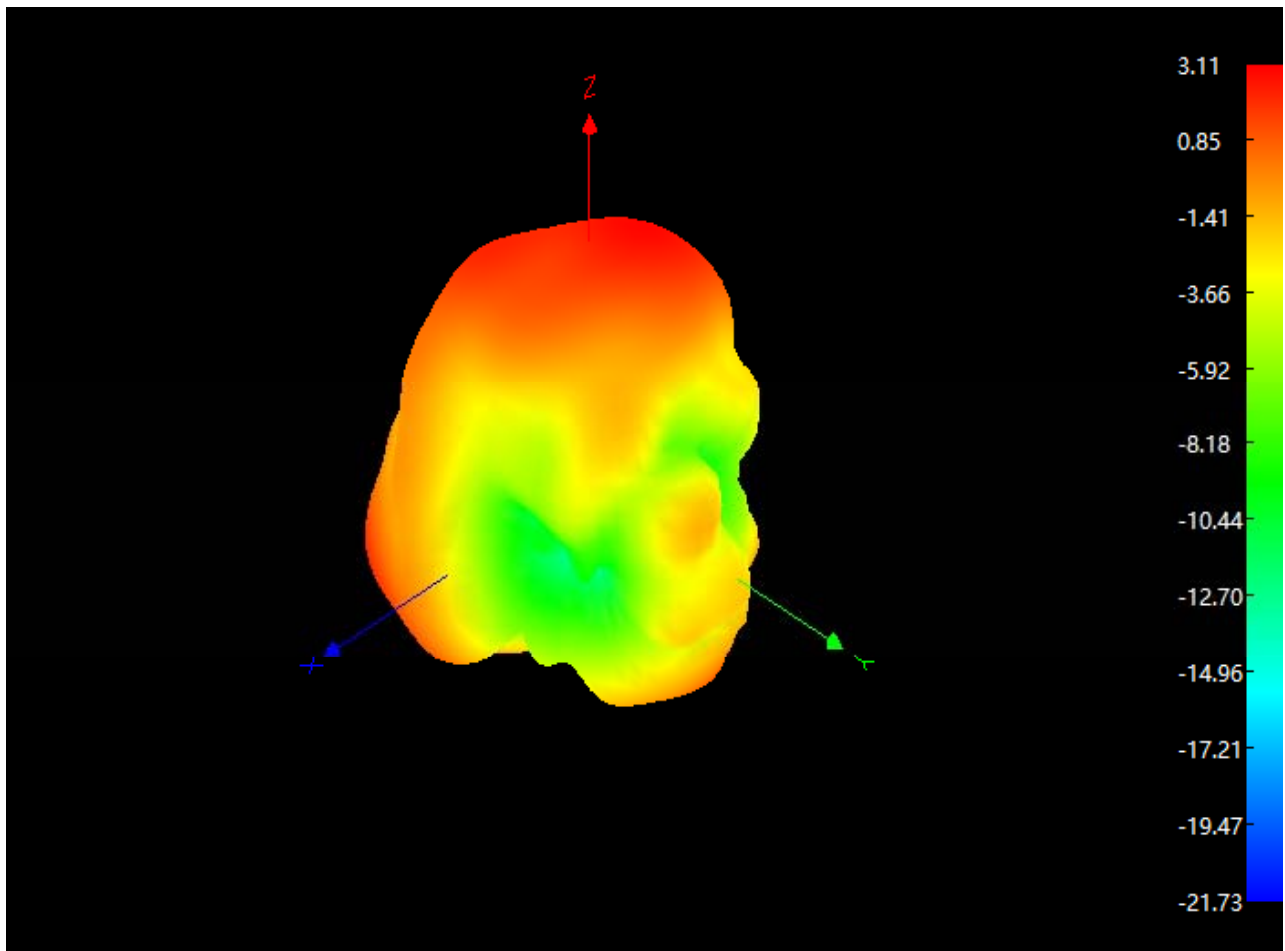


Radiation Pattern For WiFi Antenna(2450MHz)





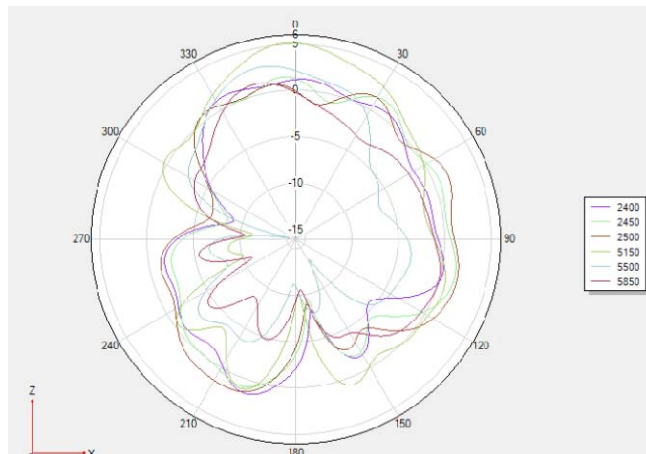
Radiation Pattern For WiFi Antenna(5500MHz)



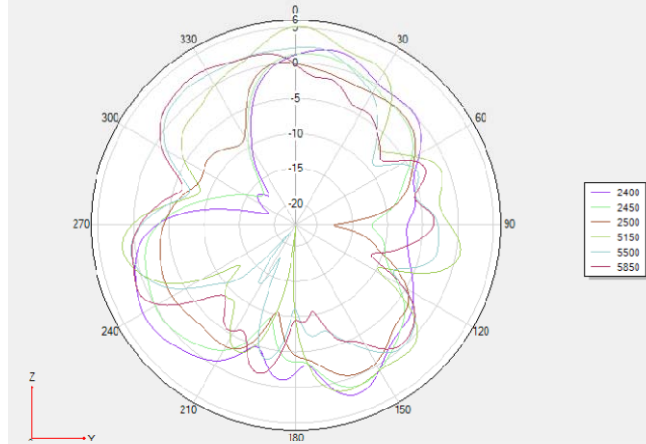


Radiation Pattern For WiFi Antenna

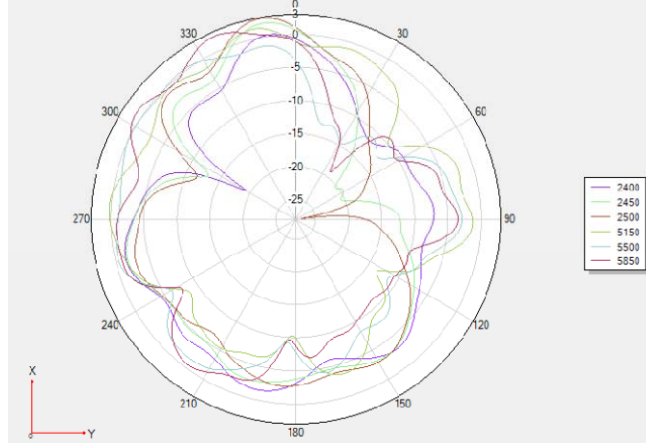
Phi 0°



Phi 90°

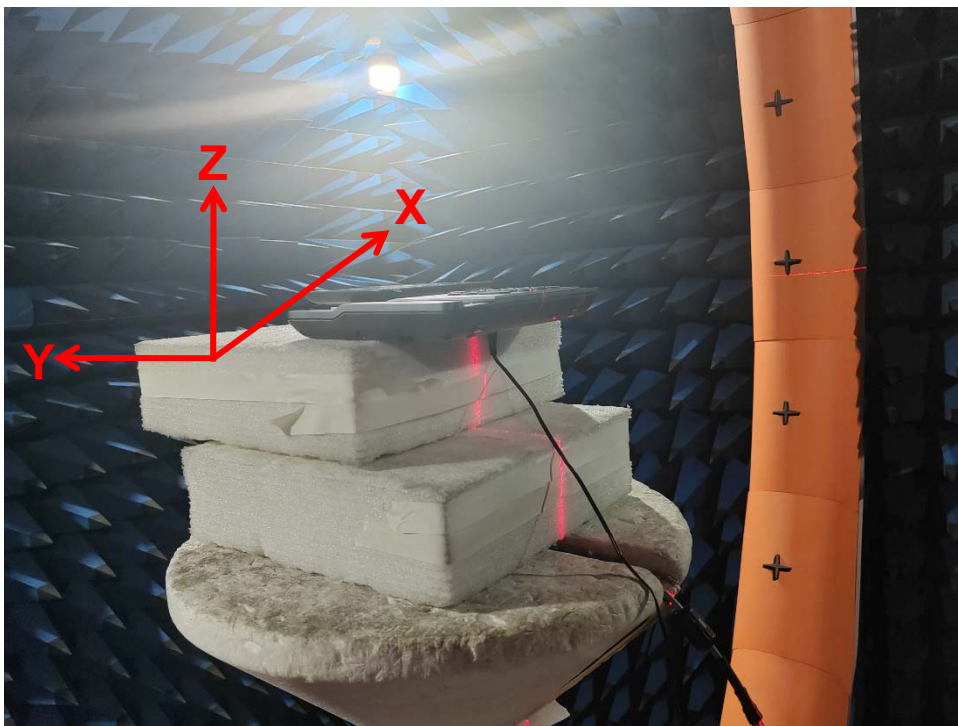
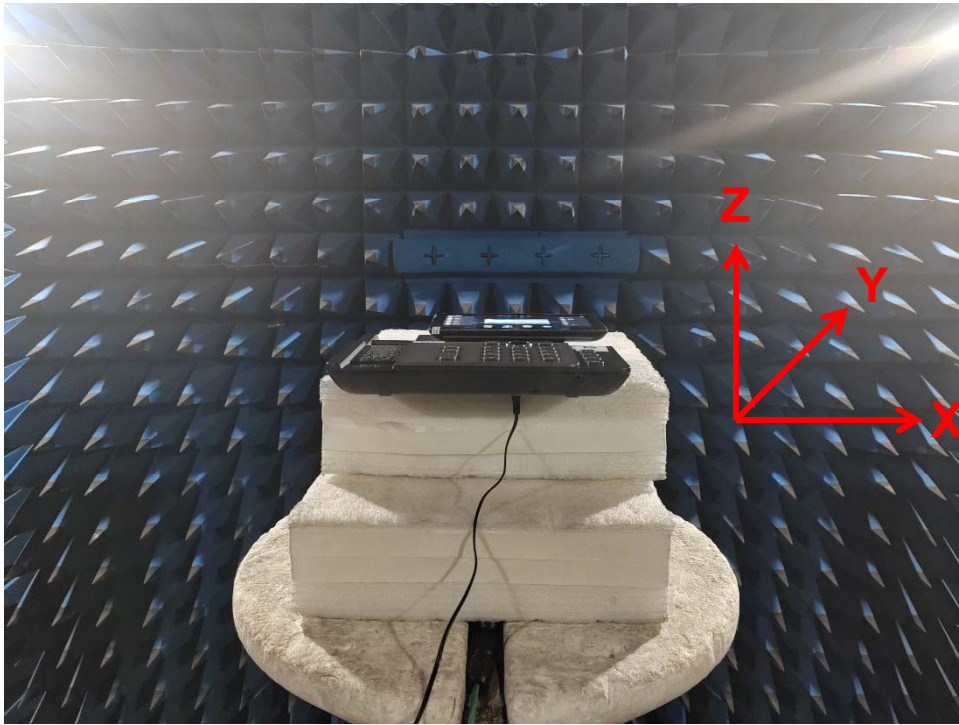


Theta 90°





Antenna Active Test



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Active Test For WIFI Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	14.5	11Mbps	-82.8
	6		15.5		-83.3
	11		14.8		-82.3
WIFI 5G 802.11a	36	54Mbps	12.3	54Mbps	-71.1
	100		13.5		-71.4
	165		13.7		-70.8



Device





WiFi Antenna

