



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	2024/06/20
编号 File No	24062002
版本 Revision	1.0

客 户
CUSTOMER: Fanvil

客户料号
CUSTOMER NO: H603

品 名
PART NAME: WIFI 1 Antenna L=140mm MHF

供方料号
SUPPLIER NO: YJL01.106.068.302A

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



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12	N/A	N/A	N/A
13	-	-	-

RoHS

Compatible

CUSTOMER

PART NO

REV.

DESCRIPTION

DATE

A

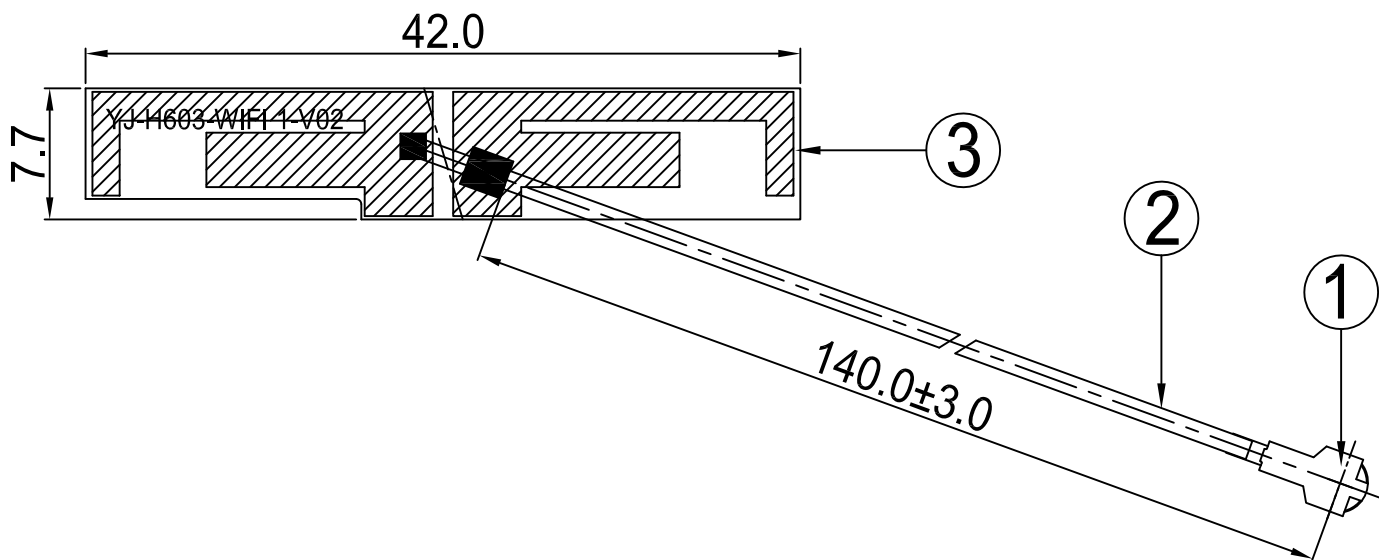
首次发行

2024-05-09

B

修改FPC

2024-06-14



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Dongguan YiJia Electronics Communication Technology Co.,Ltd. Fax:0769-82586086

Tel :0769-82586086

PART NAME: WIFI 1 Antenna L=140mm MHF

PART NO.: YJL01.106.068.302A

DATE: 2024-06-14

APPROVED BY

CHECKED BY

DESIGNED BY



UNITS: mm

SCALE: 1/1

REVISION: B

Tolerance

X.X ±0.50

X.XX±0.15

X° ±3°

何清军

邓磊

廖光喜

3	FPC	42.0*7.7mm	FPC	FPC11XXXA.P01	1
2	Coaxial Cable	O.D.0.81 Black Low Loss	O.D.1.13	COA100XXA.P01	1
1	Mini Connector	Au Plated 3代	Cu	TER100XXA.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	2.9 dBi@2.4-2.5GHz 2.7 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

Physical Properties

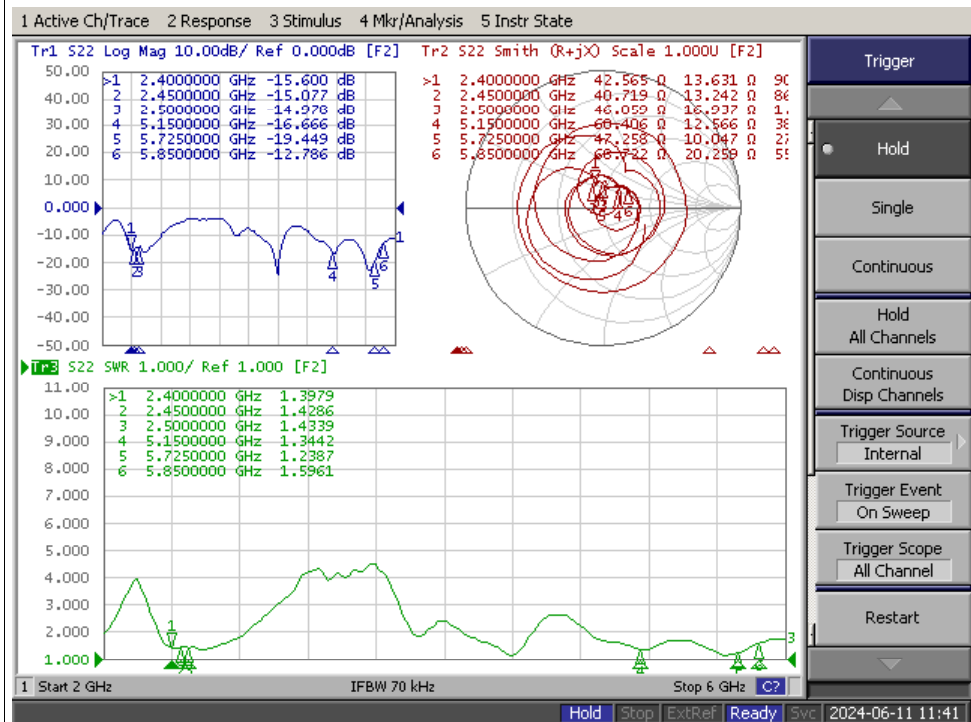
Connector	3代IPEX
Cable Type	O.D.0.81mm低损耗
Cable Length	140mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

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Antenna Performance Test

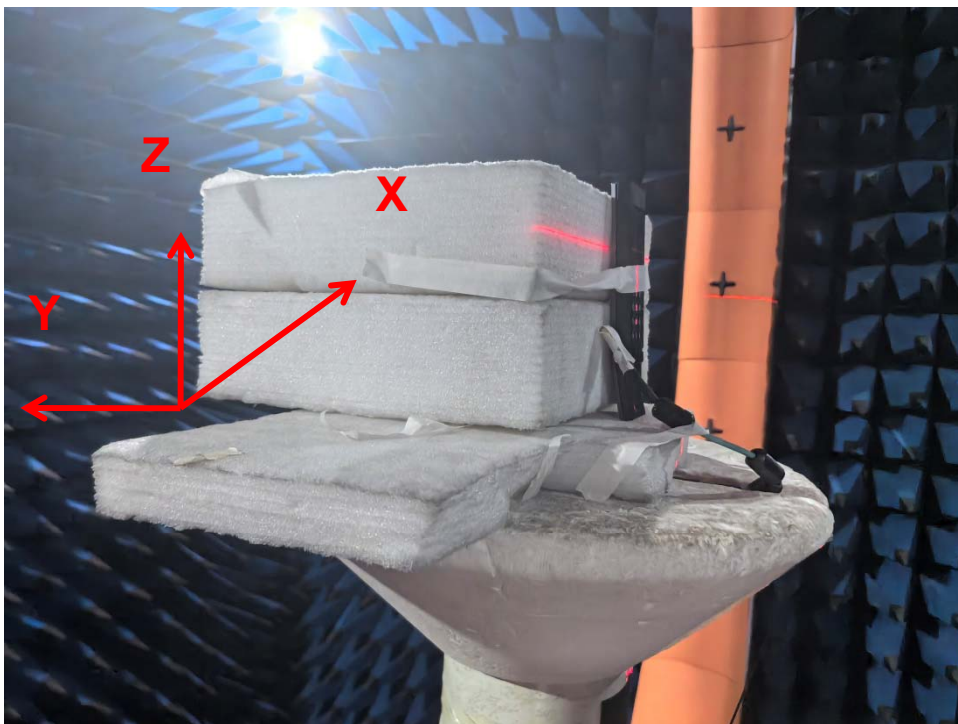
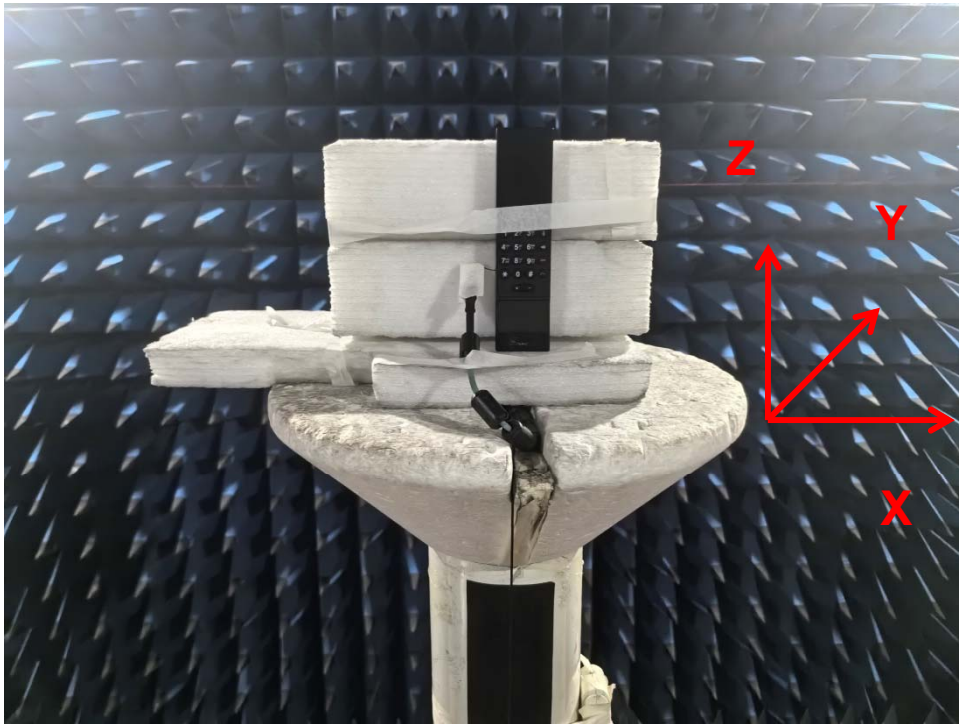
**Agilent
E5071B
S11
Parameter
Test //
WiFi 1
Antenna**



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Antenna Passive Test



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Passive Test For WiFi 1 Antenna (2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	57.2	-2.4	2.2
2410	57.4	-2.4	2.1
2420	57.3	-2.4	2.0
2430	58.1	-2.4	2.3
2440	58.2	-2.4	2.3
2450	60.5	-2.2	2.7
2460	58.9	-2.3	2.5
2470	60.7	-2.2	3.1
2480	58.1	-2.4	2.8
2490	58.3	-2.3	2.9
2500	56.0	-2.5	2.6

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Passive Test For WiFi 1 Antenna (5.8G)

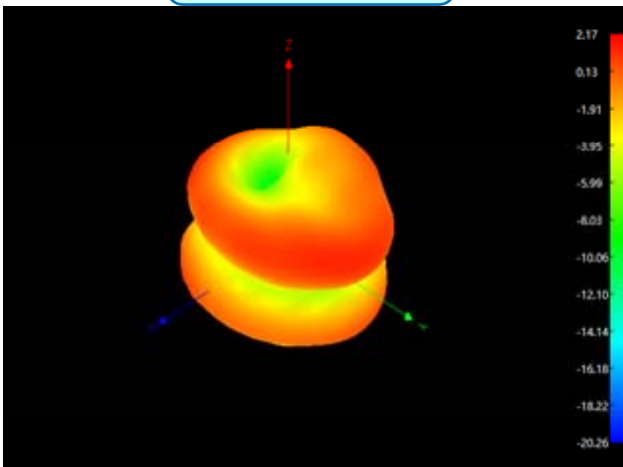
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	45.5	-3.4	0.7
5200	47.1	-3.3	0.9
5250	42.5	-3.7	0.3
5300	39.9	-4.0	-0.4
5350	39.8	-4.0	-0.1
5400	43.6	-3.6	0.7
5450	44.2	-3.6	0.8
5500	41.8	-3.8	0.6
5550	48.8	-3.1	1.5
5600	53.7	-2.7	1.7
5650	47.4	-3.2	1.3
5700	52.0	-2.8	1.6
5750	60.5	-2.2	2.4
5800	51.3	-2.9	2.1
5850	56.0	-2.5	2.7

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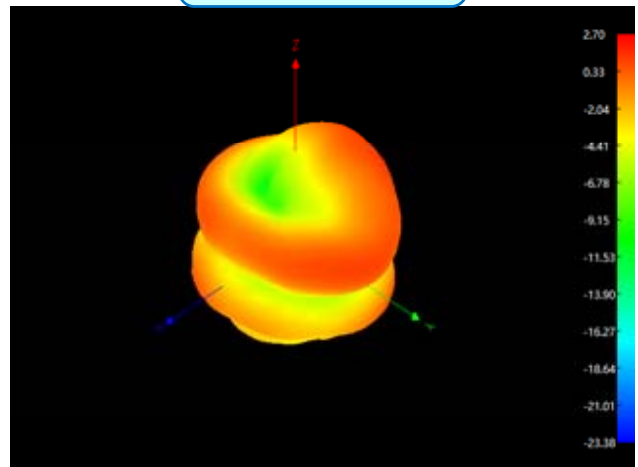


Radiation Pattern For WIFI 1 Antenna

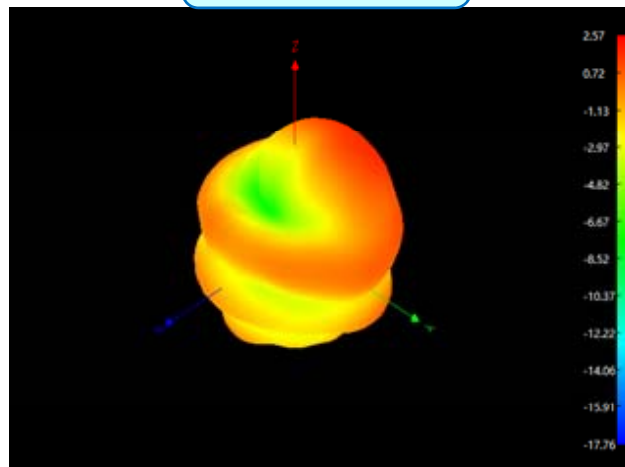
2400MHz



2450MHz

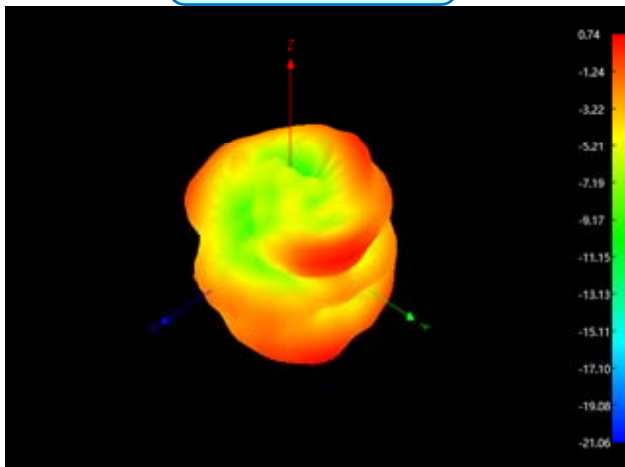


2500MHz

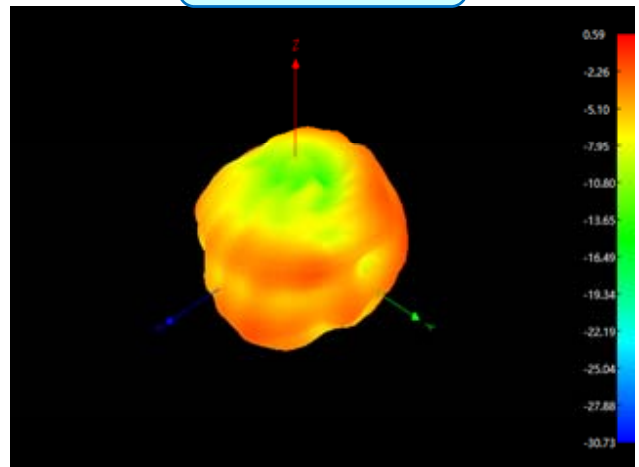




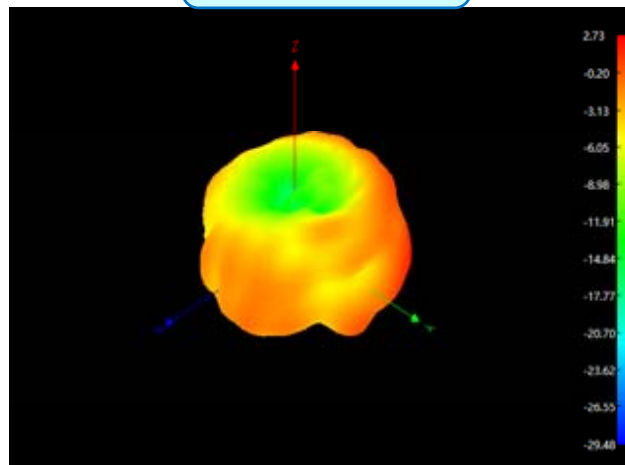
5150MHz



5500MHz



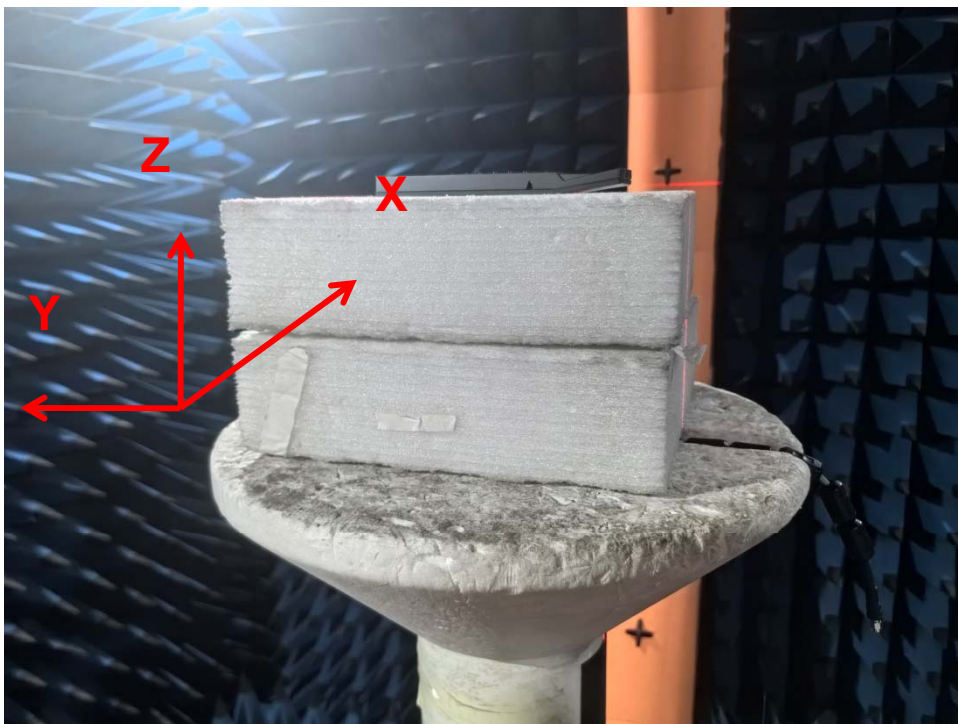
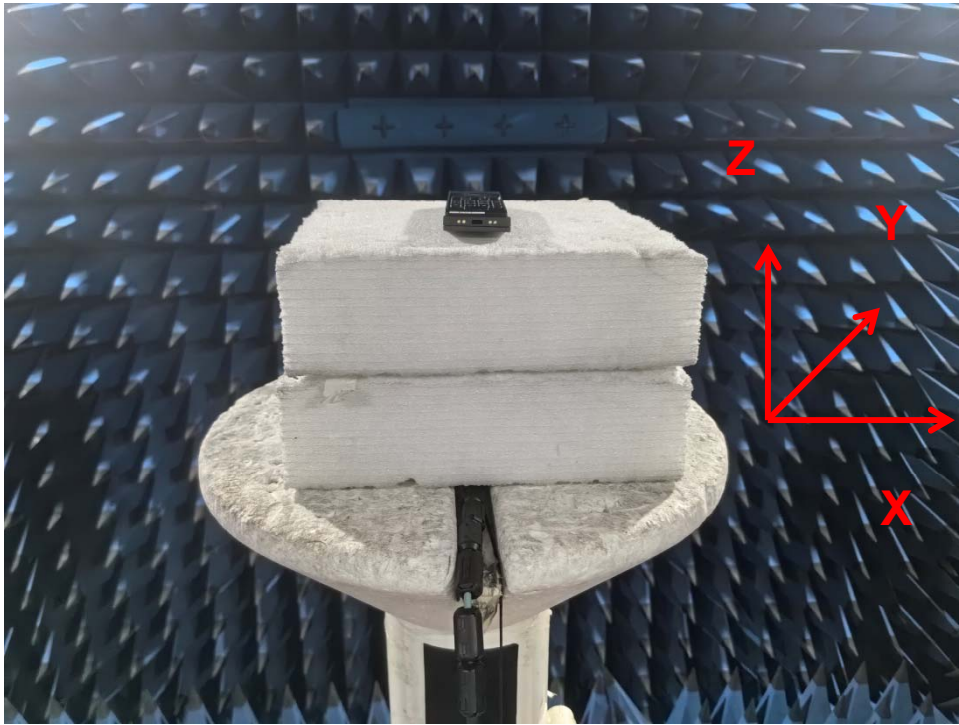
5850MHz



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Antenna Active Test

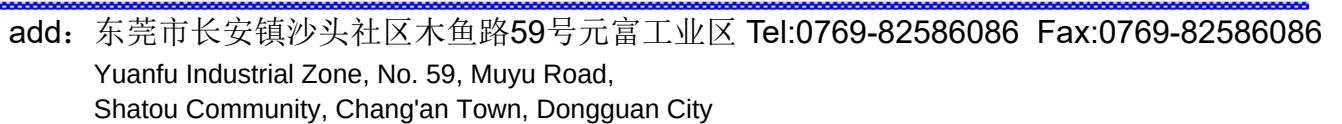


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Active Test For WIFI							
Band	Channel	Data Rate	TRP	EIRP	Data Rate	TIS	EIS
WIFI 2.4G 802.11b	1	11Mbps	12.0	14.9	11Mbps	-85.6	-88.5
	7		12.9	16.7		-85.2	-88.7
	13		12.3	16.7		-85.3	-88.1
WIFI 5G 802.11a	36	6Mbps	12.6	17.7	54Mbps	-75.1	-79.3
	100		13.7	19.4		-74.8	-79.6
	165		13.2	18.3		-74.3	-79.5

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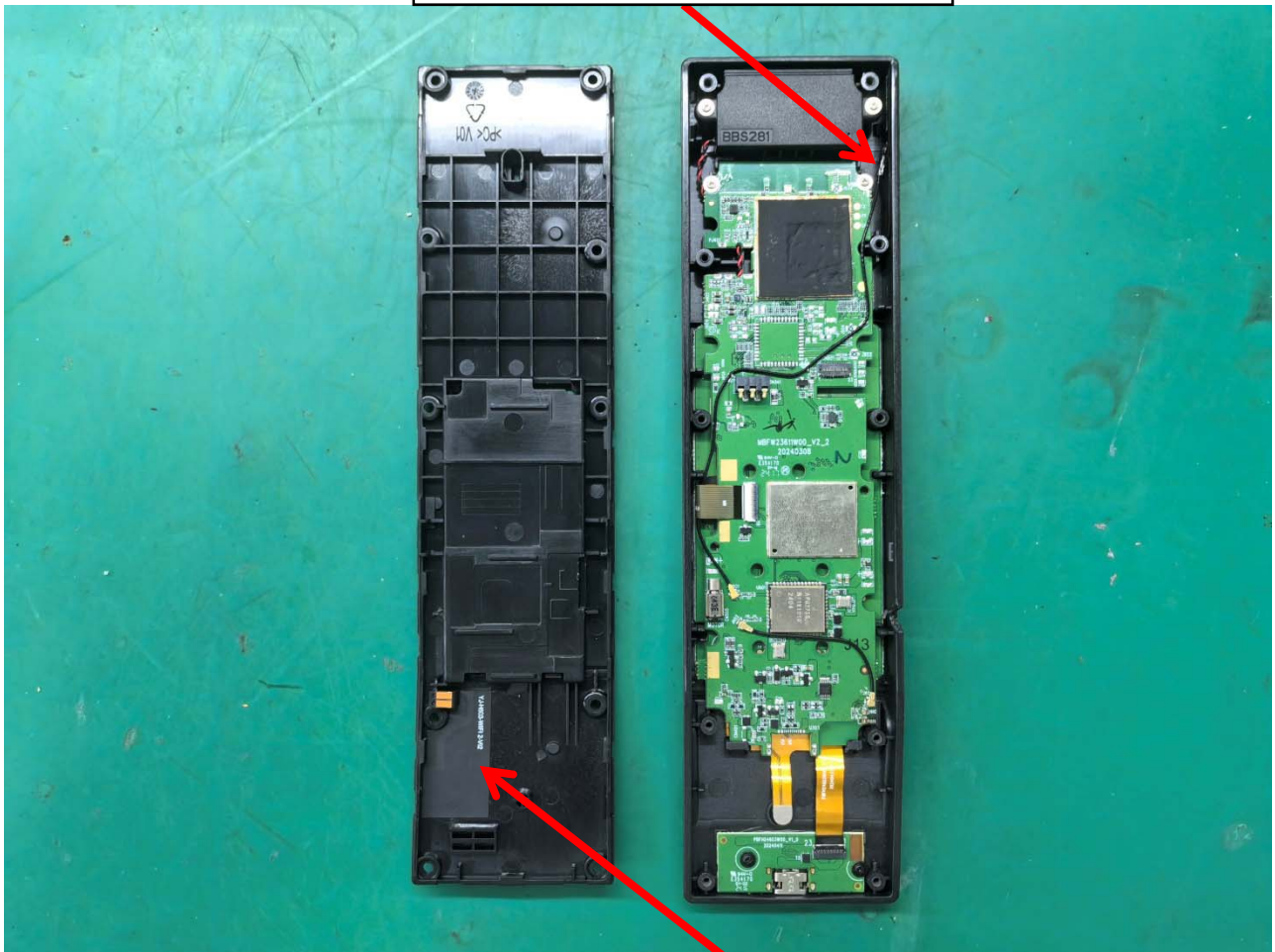


WiFi 1 Antenna





WiFi 1 Antenna



WiFi 2 Antenna