



Shen zhen Golden-Resource Electronic Co.,Ltd.

SPECIFICATION FOR APPROVAL

Date 2023/08/02

File No 23080201

Revision 1.0

CUSTOMER : Shenzhen Suichen Technology Co.,Ltd

CUSTOMER NO: 1.SD.3711.700172/1.SD.3711.700173/1.SD.3711.700174

PART NAME: WiFi 1 Antenna / WiFi 2 Antenna / BT Antenna

Antenna type: FPC Antenna

SUPPLIER NO: YJWO1.029.064.301A/YJWO1.029.064.302A/YJWO1.029.064.303A

Date:

Q"TY: PCS

CUSTOMER APPROVED BY

APPROVAL

CHIEF

SUPERVISOR

SUPPLIER SIGNATURE

APPROVAL

CHECK

DESIGN

ChenGuoqiang

XieLi

ChenXingcheng

YJ-RD-F04-A

add: 17A-03A, Block B, Nanxian Commercial Plaza, Meilong Road, Longhua New District, Shenzhen



Spec Item

NO .	内 容 (Contents)	Number of Page	Page Code
1	Spec Cover	1	1
2	Spec Item	1	2
3	Drawing	3	3 ~ 5
4	Antenna Specification	3	6 ~ 8
5	S Parameter	3	9 ~ 11
6	Passive Test	6	12 ~ 17
7	Active Test	1	18
8	Antenna Profile	5	19 ~ 23
9	Material Certificate	34	24 ~ 57
10	RoHS Test Report	**	**
11	N/A	N/A	N/A
12	-	-	-
13	-	-	-

CUSTOMER
PART NO

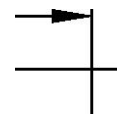
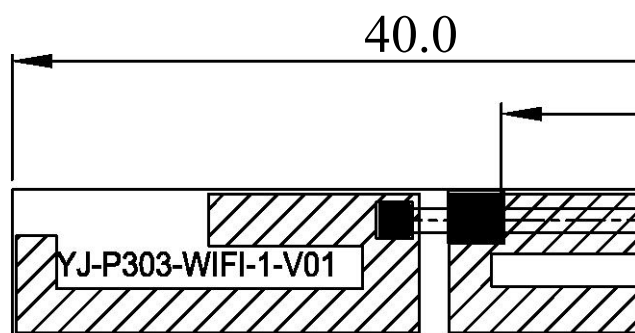
β
LW

DESCRIPTION
Initial Issue
Modify Line Length And Color

DATE
2021-03-23
2021-04-09

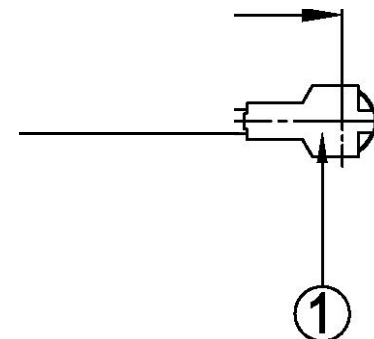
EI

E



150.0 ± 4.0

2



1

3

回

日

3	FPCB	40.0*7.3MM	FPCB	FPC1000XA.P01
2	Coaxial Cable	Coaxial Cable	Coaxial Cable	Coaxial Cable
	Mini Connector	Au Plated 3代	Cu	TER1000XA.P01
NOI	PART NAME	DESCRIPTION	Material	Pa 此 Number

Q.TY

Shen zhen Golden-Resource Electronic Co.,Ltd.

PARTNAME: WiFi 1 Antenna

PART NO.: YJW01.029.064.301A

DATE: 2021-04-09

APPROVED BY

CHECKED BY

DESIGNED BY

G 再司

Tolerance

YinTao

LiaoMingyu

LvSenhua

SCALE: 1/1

REVISION: A

X.X ±0.50
X.XX±0.15
X" ±

RoHS

CUSTOMER
PART NO

DESCRIPTION

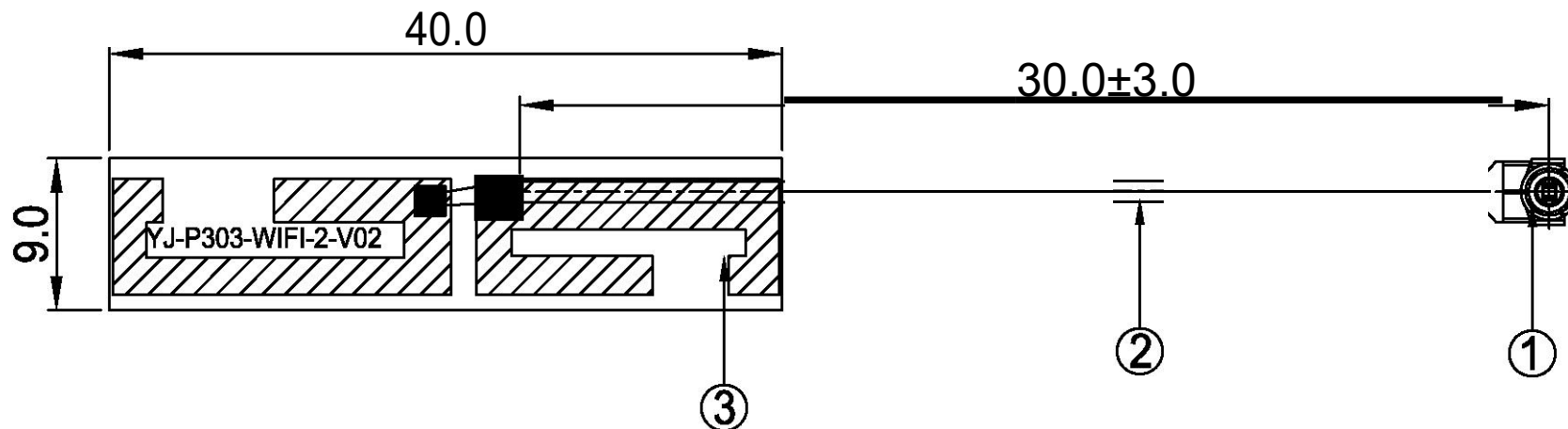
DATE

Initial Issue

2021-03-23

Modify Line Colo

2021-04-09



Shen zhen Golden-Resource Electronic Co.,Ltd.

PART NAME: WiFi 2 Antenna

PARTNO.: YJW01 III 9.064.302A

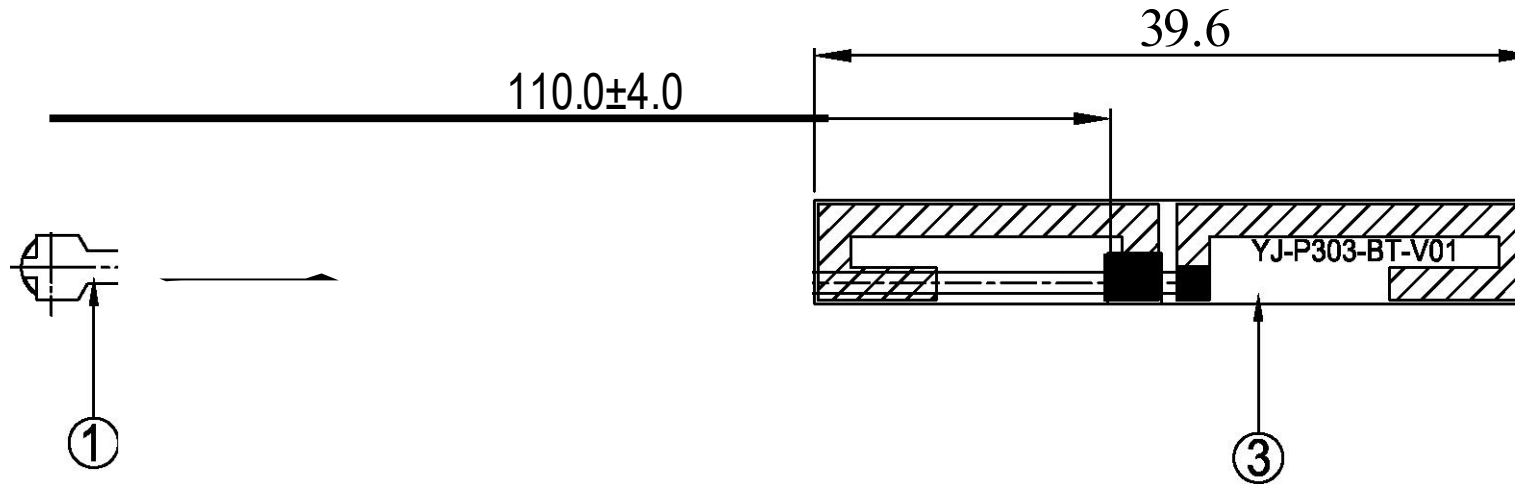
DATE: 2021-04-09

APPROVED BY	CHECKED BY	DESIGNED BY
YinTao	LiaoMingyu	LvSenhua

@ 司
UNIT mm
SCALE: 1/1
REVISION: A

File name
XX ±
0.50
X.XX±0.15
X' ± 3'

3	FPCB	40.0*9.0MM	FPCB	FPC1000XA.P01
2	Coaxial Cable	O.D.0.81 Black	O.D.0.81	GOA1000XA.P01
	Mini Connector	Au Plated 3代	Cu	TER1000XA.P01
NO I	PART NAME	DESCRIPTION	Material	Part Number



B

AL 3	FPCB	39.6*5.7MM	FPCB	FPC1000XA.P01	
2	Co 创 al Cable	0.D.0.81 Black	0.D.0.81	COA1000XA.P01	
	Mini Connecto r	Au Pl 鍍 d 3 代	Cu	TER1000XA.P01	
NO	PARTNAME	DESCRIPTION	Material	Part Number	Q.TY

Shen zhen Golden-Resource Electronic Co.,Ltd.

PART NAME: BT Antenna

PART NO.: YJW01.029.064.303A

DATE:2021-04-09

APPROVED BY

CHECKED BY

DESIGNED BY

@ 司

Tolerance
X.X

YinTao

LiaoMingy

LvSenhua

Tolerance
X.X

SCALE: 1月

X.XX ± 0.15

±0.50

X ± 3



Antenna Specification **WiFi1**

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 3.0 Max@5.15-5.85GHz
Gain	1.6dBi@2.4-2.5GHz 2.1dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

Physical Properties

Connector	3 Generation IPEX
Cable Type	O.D.0.81mm
Cable Length	150mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

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Antenna Specification **WiFi2**

Electrical Properties

Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	3.0 Max@2.4-2.5GHz 4.5 Max@5.15-5.85GHz
Gain	1.8dBi@2.4-2.5GHz 2.3dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

Physical Properties

Connector	3 Generation IPEX
Cable Type	O.D.0.81mm
Cable Length	30mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

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Antenna Specification BT

Electrical Properties

Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	2.3dBi
Radiation	Omni-directional
Polarization	Linear

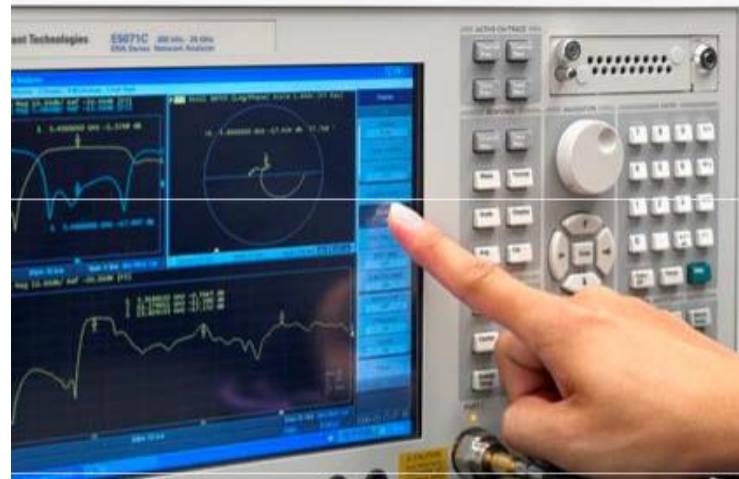
Physical Properties

Connector	3 Generation IPEX
Cable Type	O.D.0.81mm
Cable Length	110mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

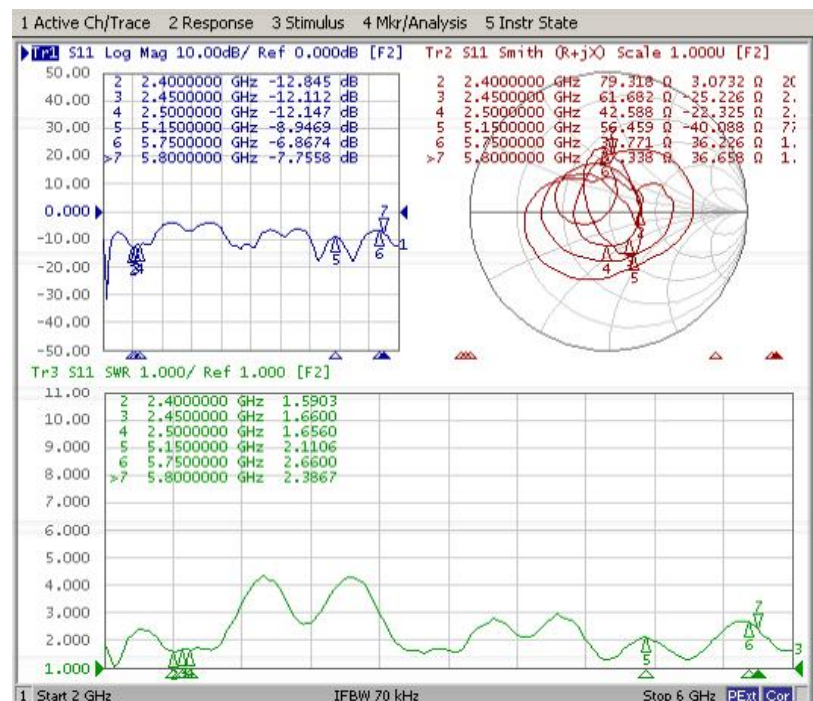
add: 17A-03A, Block B, Nanxian Commercial Plaza, Meilong Road, Longhua New District, Shenzhen



Agilent E5071B

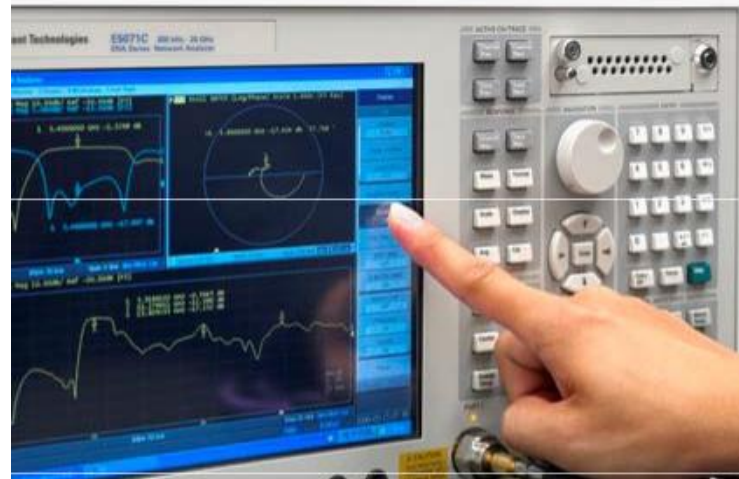


S Parameter Test // WIFI(1) Antenna

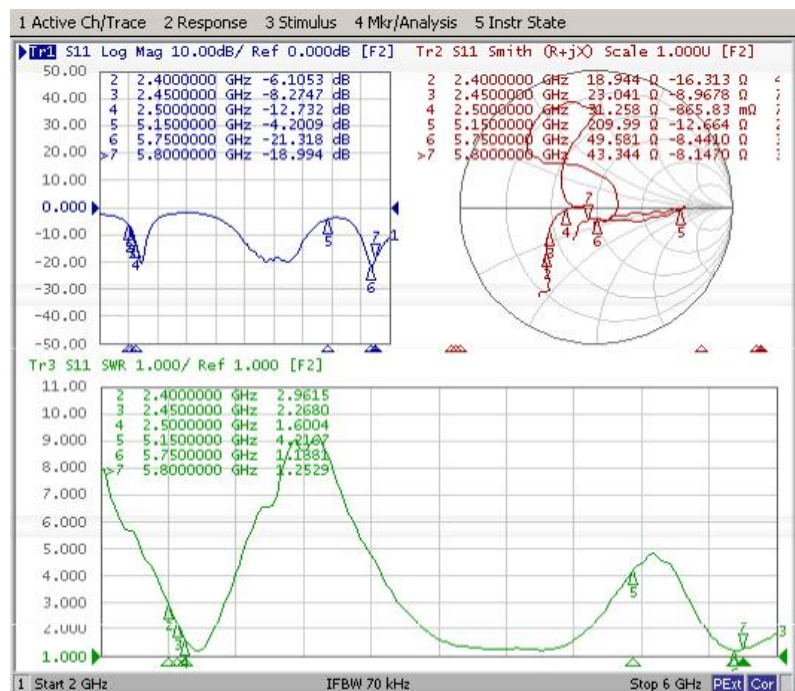




Agilent E5071B

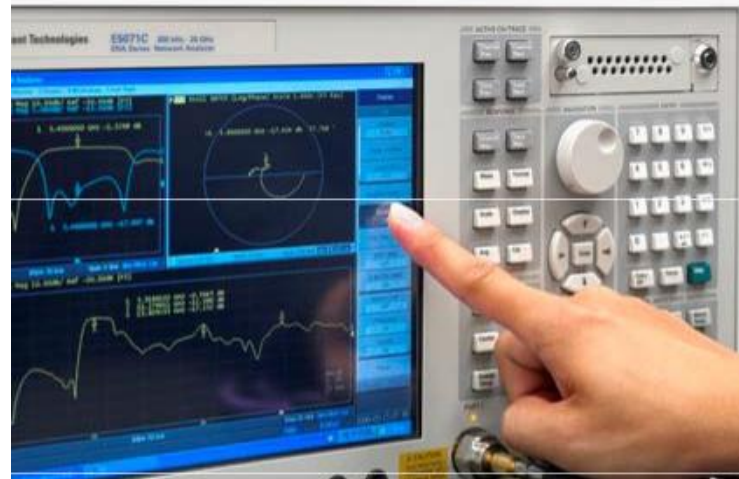


S Parameter Test // WIFI(2) Antenna

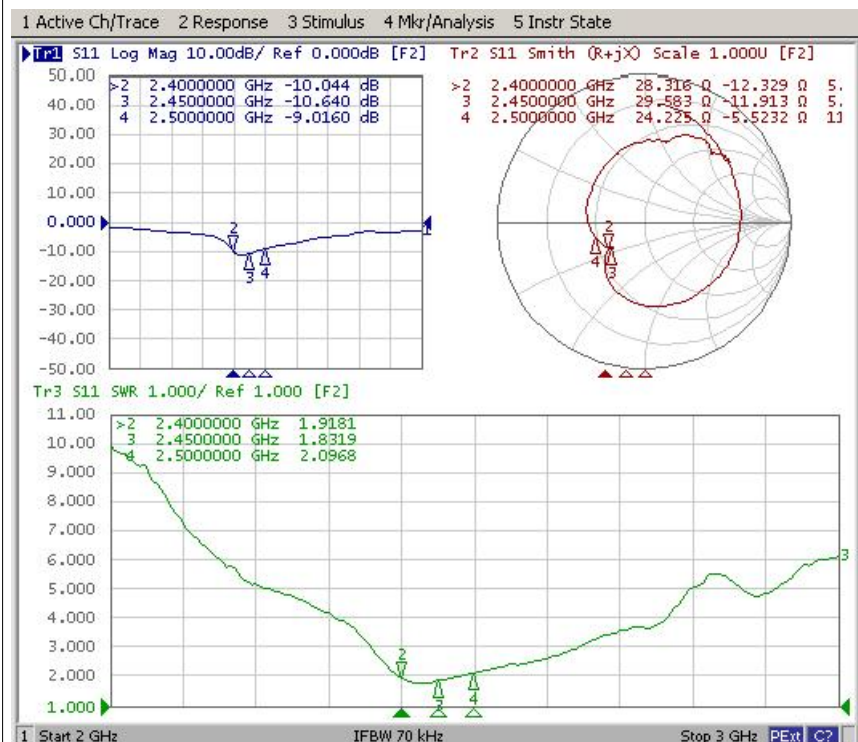




Agilent E5071B

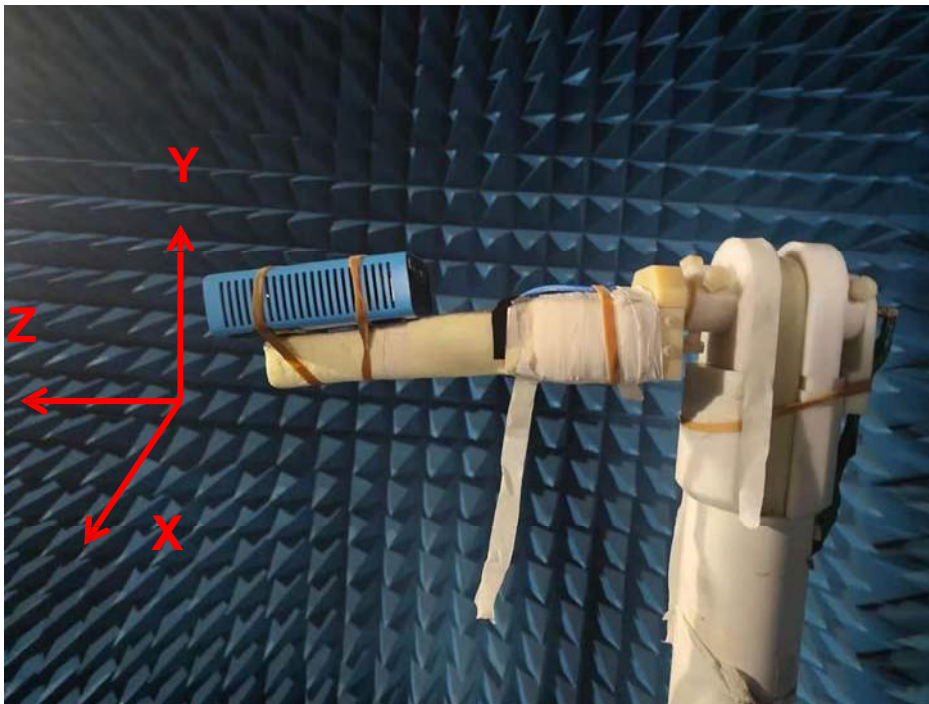
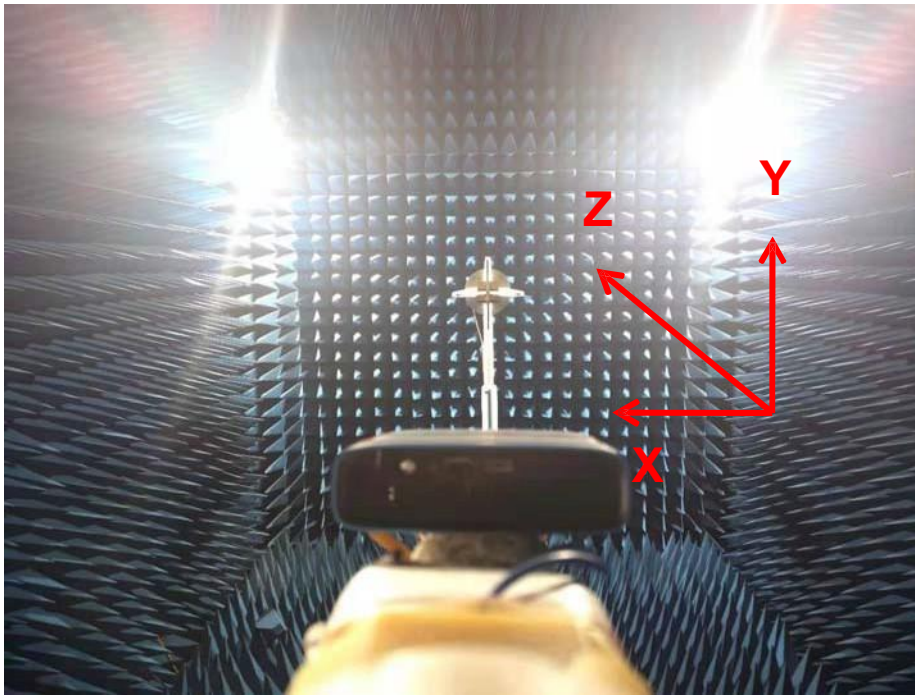


S Parameter Test // BT Antenna





Antenna Passive Test



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Passive Test For WIFI(1)2.4G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	47.3	-3.3	1.2
2410	48.5	-3.1	1.3
2420	48.5	-3.1	1.4
2430	50.0	-3.0	1.5
2440	50.3	-3.0	1.5
2450	52.5	-2.8	1.6
2460	52.7	-2.8	1.6
2470	51.7	-2.9	1.6
2480	51.4	-2.9	1.6
2490	48.6	-3.1	1.4
2500	48.5	-3.1	1.4

add: 17A-03A, Block B, Nanxian Commercial Plaza, Meilong Road, Longhua New District, Shenzhen



Passive Test For WiFi (1) 5.8G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	34.4	-4.6	0.1
5200	36.3	-4.4	0.2
5250	37.2	-4.3	0.5
5300	39.9	-4.0	1.7
5350	40.3	-3.9	1.8
5400	41.2	-3.9	2.1
5450	40.3	-3.9	1.9
5500	39.1	-4.1	1.5
5550	38.5	-4.1	0.9
5600	35.7	-4.5	0.1
5650	34.9	-4.6	0.1
5700	34.4	-4.6	0.1
5750	34.9	-4.6	0.1
5800	35.7	-4.5	0.1
5850	36.3	-4.4	0.2

add: 17A-03A, Block B, Nanxian Commercial Plaza, Meilong Road, Longhua New District, Shenzhen



Passive Test For WIFI(2)2.4G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	37.2	-4.3	0.4
2410	38.5	-4.1	0.7
2420	39.4	-4.0	0.8
2430	40.7	-3.9	1.2
2440	40.7	-3.9	1.4
2450	42.5	-3.7	1.7
2460	42.9	-3.7	1.8
2470	41.7	-3.8	1.6
2480	41.1	-3.9	1.6
2490	40.6	-3.9	1.0
2500	40.5	-3.9	0.9

add: 17A-03A, Block B, Nanxian Commercial Plaza, Meilong Road, Longhua New District, Shenzhen



Passive Test For WiFi (2) 5.8G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	31.2	-5.1	-0.1
5200	36.2	-4.4	1.0
5250	36.7	-4.4	1.5
5300	38.9	-4.1	1.8
5350	39.9	-4.0	2.0
5400	40.4	-3.9	2.3
5450	40.3	-3.9	2.1
5500	37.7	-4.2	1.7
5550	37.3	-4.3	1.6
5600	35.4	-4.5	0.5
5650	34.4	-4.6	0.1
5700	31.2	-5.1	-0.1
5750	34.4	-4.6	0.1
5800	35.4	-4.5	0.5
5850	36.2	-4.4	1.0

add: 17A-03A, Block B, Nanxian Commercial Plaza, Meilong Road, Longhua New District, Shenzhen



Passive Test For BT2.4G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	33.3	-4.8	0.6
2410	34.8	-4.6	1.0
2420	35.4	-4.5	1.1
2430	37.3	-4.3	1.4
2440	37.8	-4.2	2.0
2450	38.6	-4.1	2.1
2460	38.6	-4.1	2.3
2470	38.0	-4.2	2.0
2480	37.8	-4.2	2.0
2490	36.7	-4.4	1.4
2500	35.8	-4.5	1.3

add: 17A-03A, Block B, Nanxian Commercial Plaza, Meilong Road, Longhua New District, Shenzhen



Active Test For WIFI

Band	Channel	Data Rate	TRP	EIRP	Data Rate	TIS	EIS
WIFI 2.4G 802.11b	1	11Mbps	15.2	20.0	11Mbps	-70.9	-75.7
	7		14.5	19.2		-69.7	-74.5
	13		13.9	19.2		-72.2	-77.5
WIFI 5G 802.11a	36	6Mbps	10.5	15.3	54Mbps	-70.5	-75.3
	149		12.1	17.6		-67.5	-72.5
	165		15.3	19.5		-69.1	-73.3

add: 17A-03A, Block B, Nanxian Commercial Plaza, Meilong Road, Longhua New District, Shenzhen



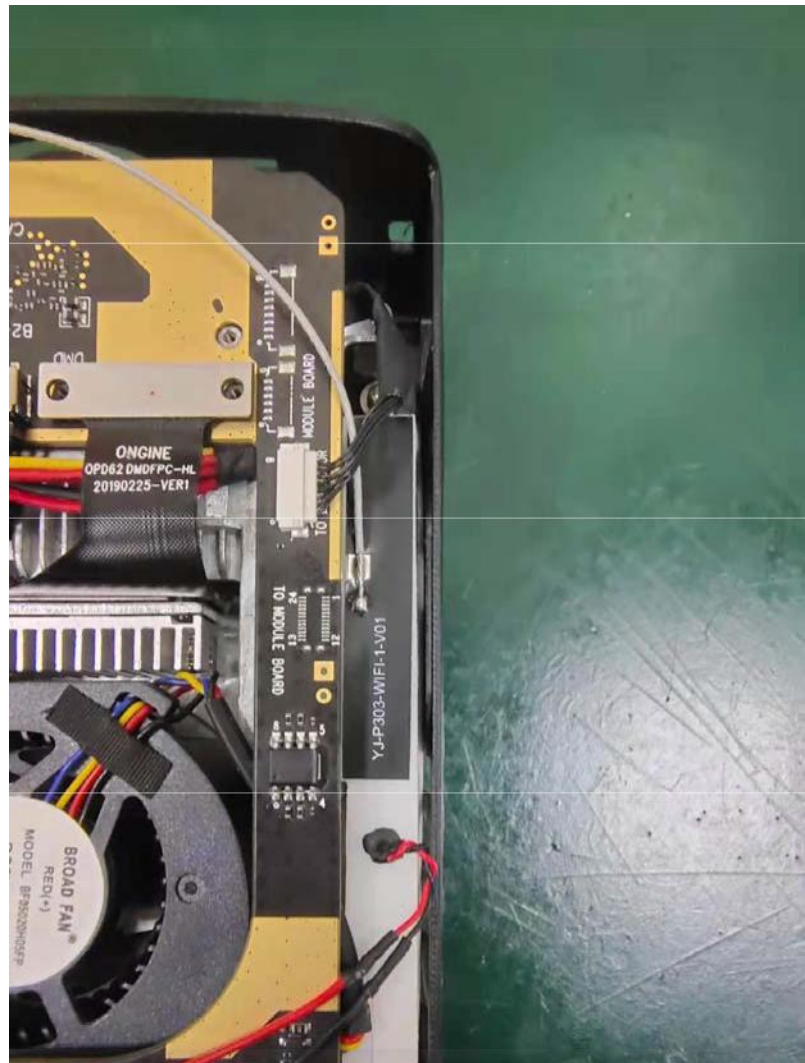
Device



add: 17A-03A, Block B, Nanxian Commercial Plaza, Meilong Road, Longhua New District, Shenzhen

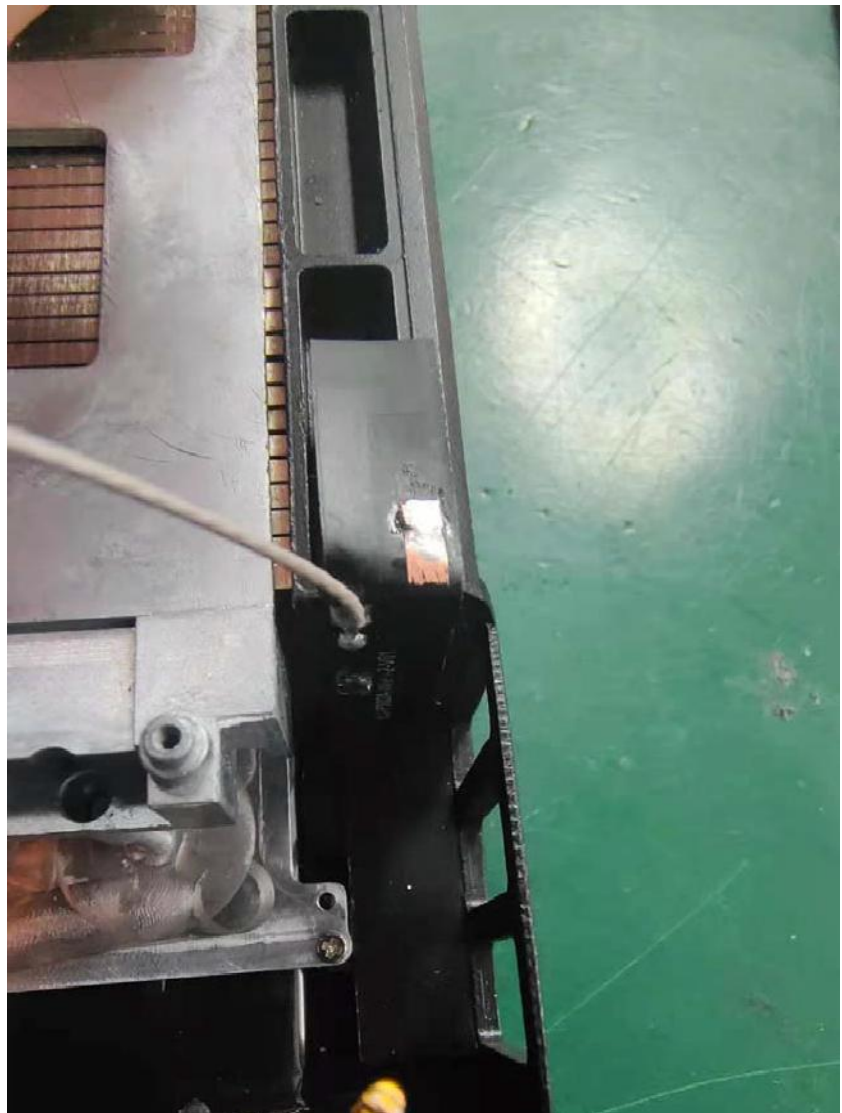


WIFI(1) Antenna





WIFI(2) Antenna





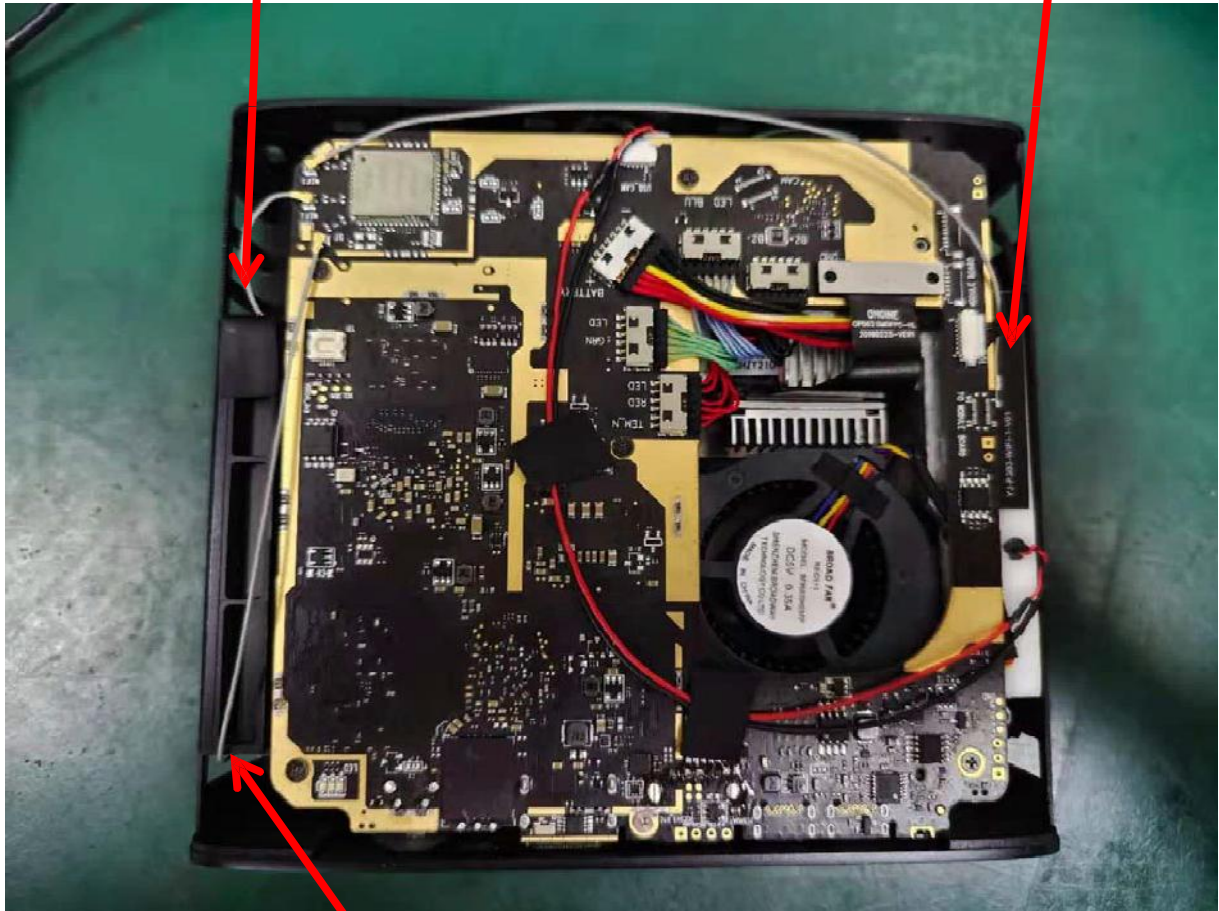
BT Antenna





WIFI(2)

WIFI(1)



BT

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