



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	2023/04/28
编号 File No	23042801
版本 Revision	1.0

客户
CUSTOMER: 商汤

客户料号
CUSTOMER NO: 下棋机器人

品名
PART NAME: WIFI Antenna L=65mm MHF

供方料号
SUPPLIER NO: YJT01.193.007.301A

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
add: Yuanfu Industrial Zone, 59 Muyu Road, Shatou Community, Changan Town, Dongguan



承认书项目表

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

RoHS

Compatible

CUSTOMER

PART NO

REV.

DESCRIPTION

DATE

A

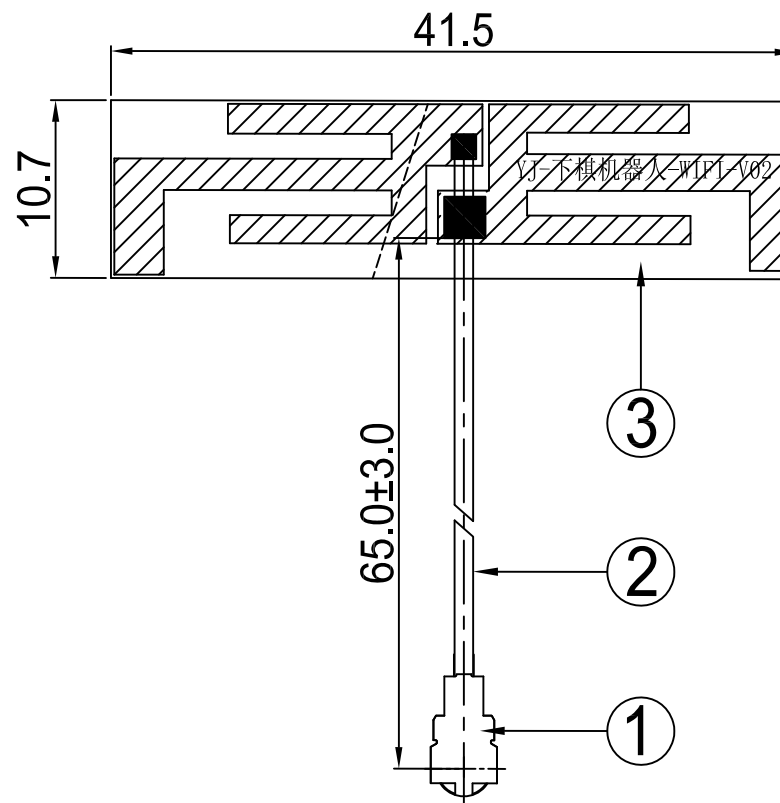
首次发行

2023-03-24

B

修改线长

2023-04-28



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

PART NAME: WIFI Antenna L=65mm MHF

PART NO.: YJT01.193.007.301A

DATE: 2023-04-28

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

陆明兰

周颖杰

廖光喜

UNITS: mm

SCALE: 1/1

REVISION: B

X.X ±0.50

X.XX±0.15

X° ±3°

3	FPC	41.5*10.7mm	FPC	FPC11XXA.P01	1
2	Coaxial Cable	O.D.1.13 Black	O.D.1.13	COA100XXA.P01	1
1	Mini Connector	Au Plated 1代	Cu	TER100XXA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



天线规格

Antenna Specification

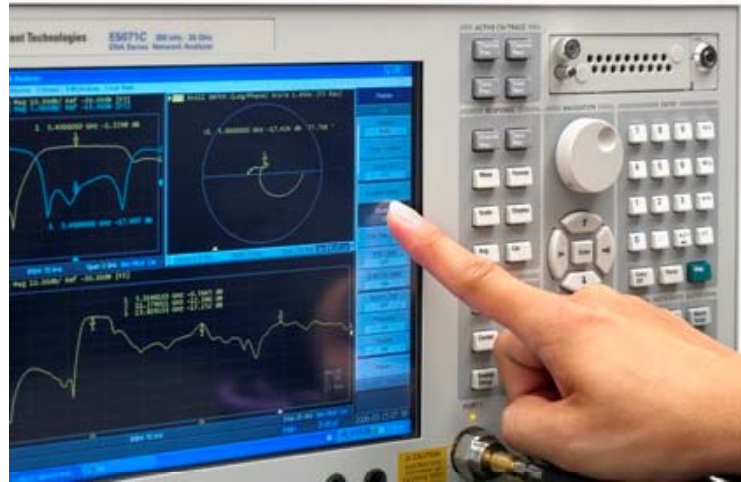
Electrical Properties	
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	4.2 dBi@2.4-2.5GHz 7.5 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	1代IPEX
Cable Type	O.D.1.13mm
Cable Length	65mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

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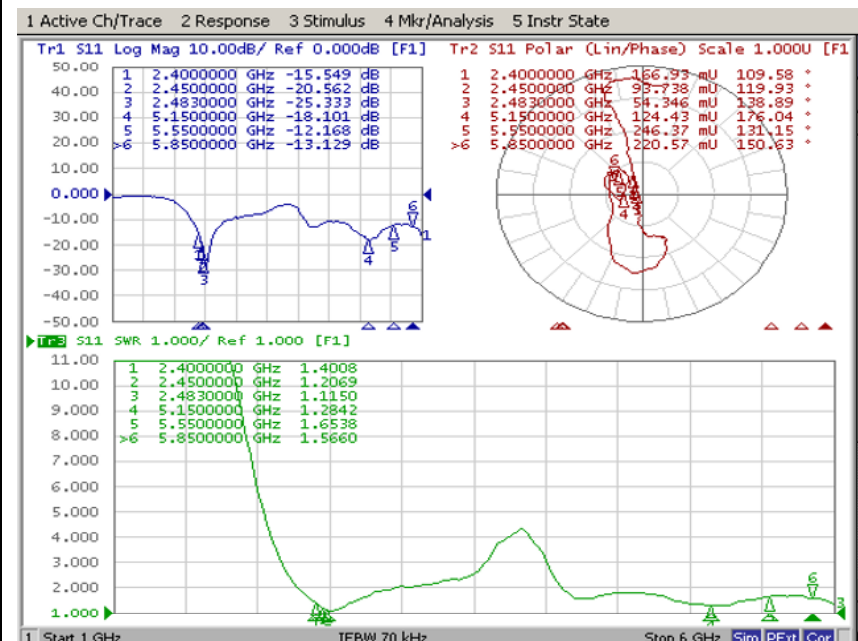


Antenna Performance Test

**Agilent
E5071B**



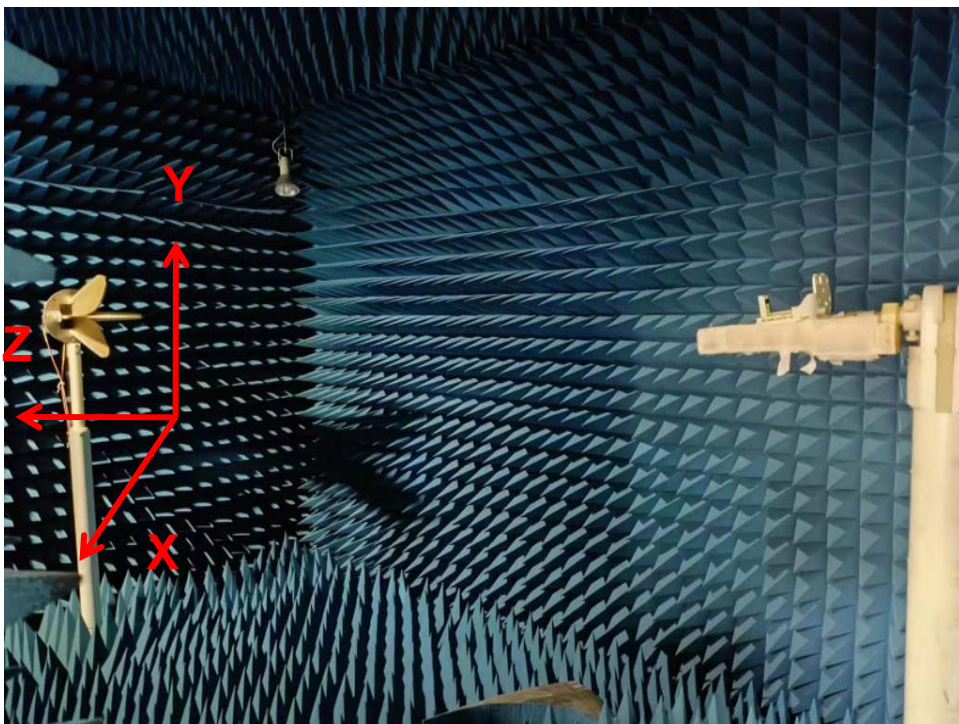
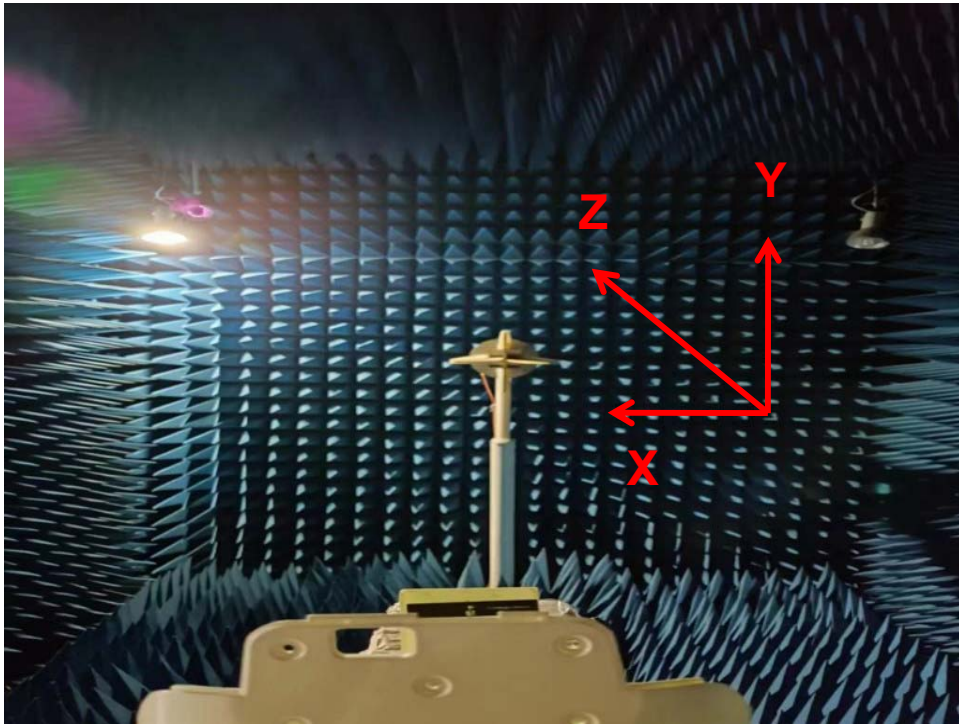
**S
Parameter
Test //
WIFI
Antenna**



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Antenna Passive Test





Passive Test For WIFI Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	73.0	-1.4	4.1
2410	72.0	-1.4	4.0
2420	72.4	-1.4	4.1
2430	73.4	-1.4	4.0
2440	74.7	-1.3	4.2
2450	75.3	-1.2	4.2
2460	74.8	-1.3	4.2
2470	78.3	-1.1	4.1
2480	73.8	-1.3	4.1
2490	73.7	-1.3	4.0
2500	75.6	-1.2	4.1



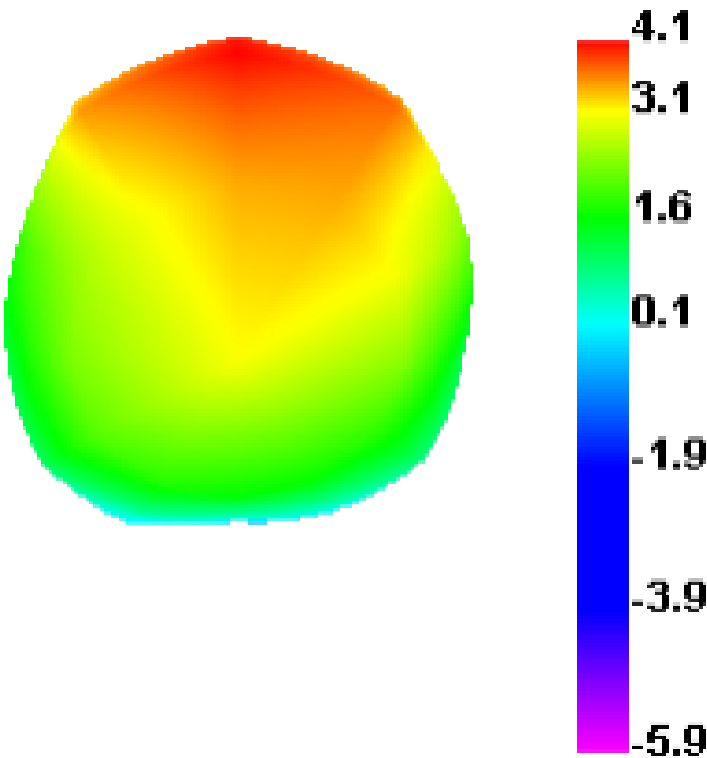
Passive Test For WIFI Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	50.0	-3.0	4.9
5200	51.6	-2.9	5.1
5250	50.2	-3.0	5.1
5300	54.3	-2.7	5.5
5350	58.6	-2.3	5.7
5400	60.3	-2.2	5.7
5450	58.9	-2.3	5.5
5500	62.1	-2.1	5.9
5550	61.9	-2.1	6.0
5600	65.4	-1.8	6.2
5650	87.8	-0.6	7.5
5700	72.7	-1.4	6.3
5750	68.8	-1.6	6.1
5800	63.9	-2.0	5.8
5850	67.6	-1.7	5.8



Radiation Pattern For WIFI Antenna(2400MHz)

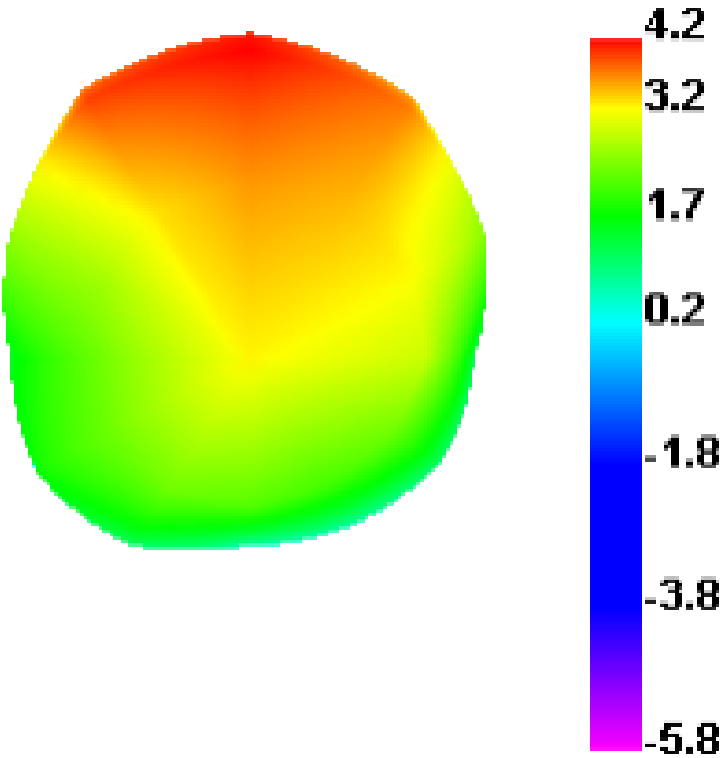
2400.000MHz





Radiation Pattern For WIFI Antenna(2450MHz)

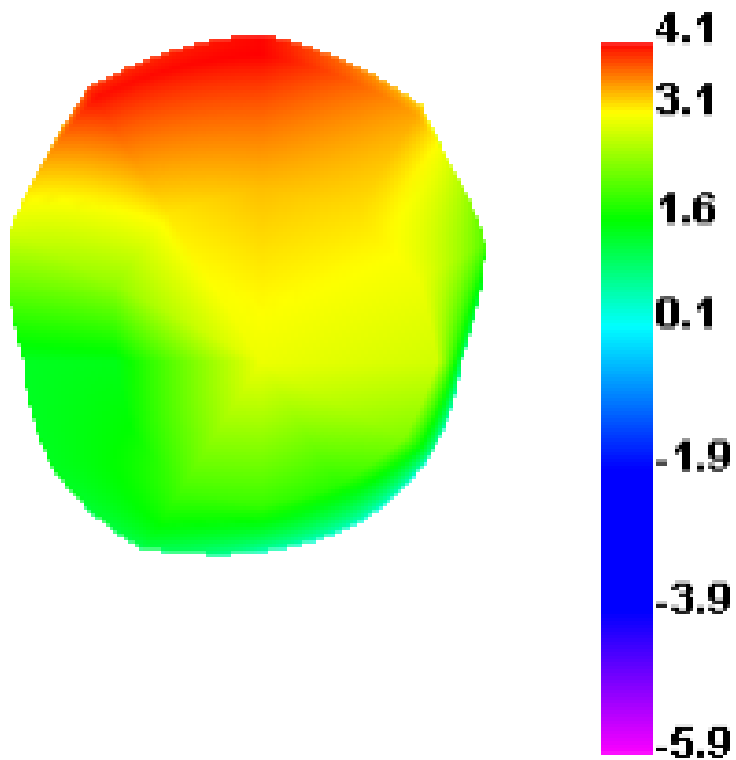
2450.000MHz





Radiation Pattern For WIFI Antenna(2500MHz)

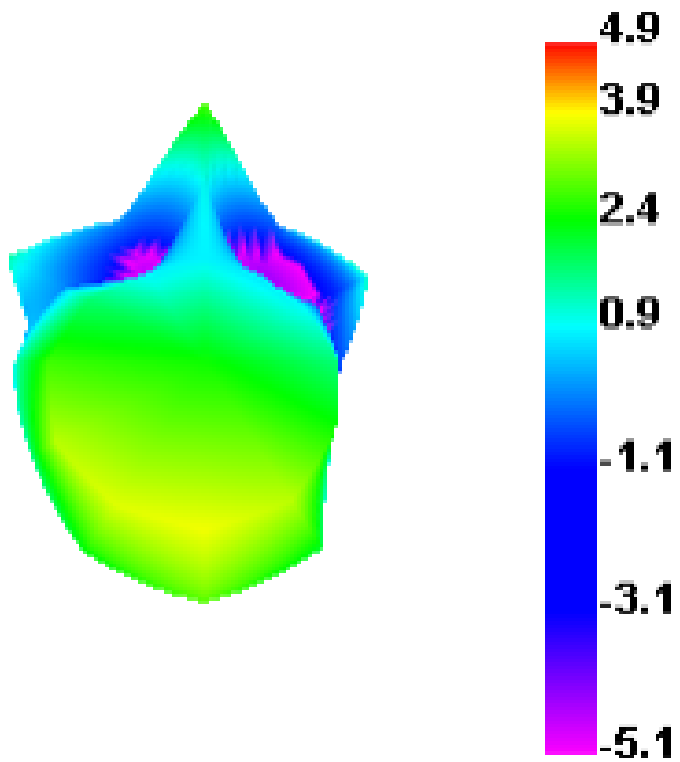
2500.000MHz





Radiation Pattern For WIFI Antenna(5150MHz)

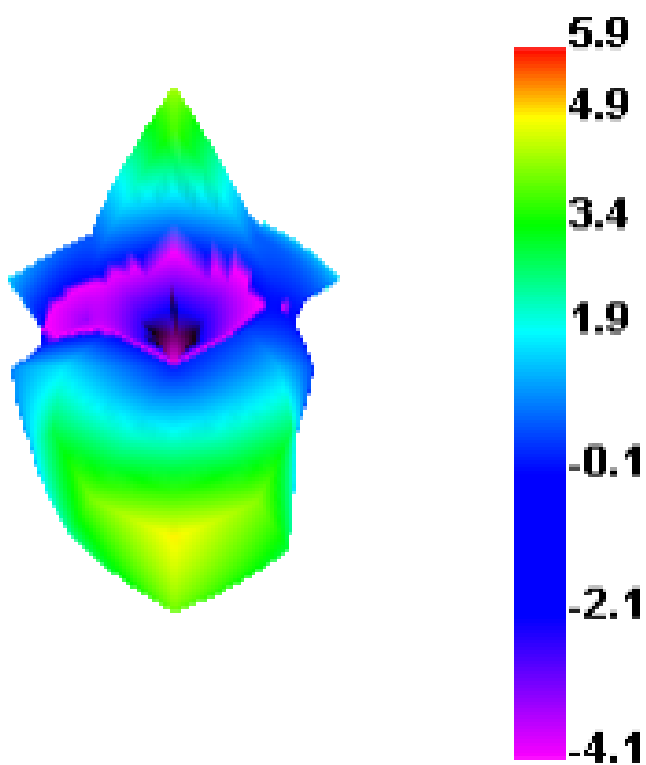
5150.000MHz





Radiation Pattern For WIFI Antenna(5500MHz)

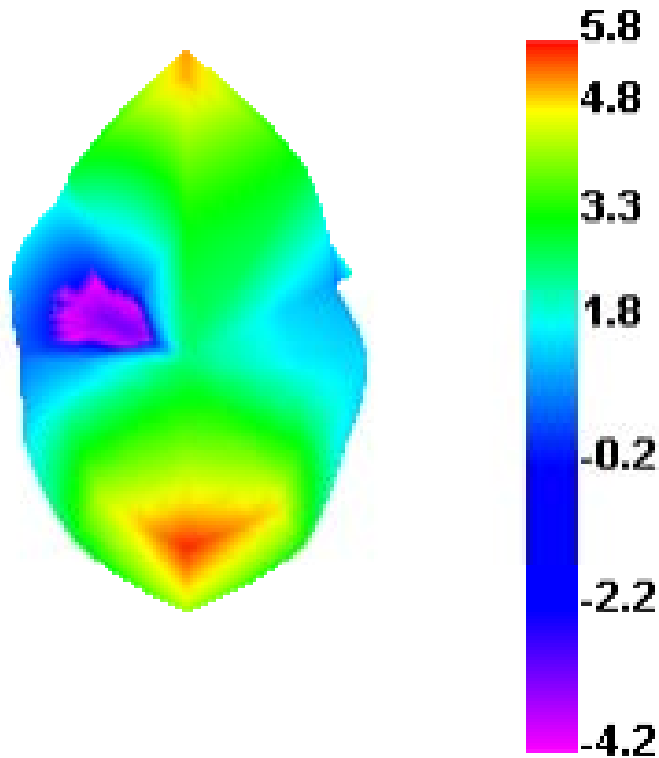
5500.000MHz





Radiation Pattern For WIFI Antenna(5850MHz)

5850.000MHz





Active Test For WIFI Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	16.3	11Mbps	-89.1
	6		16.6		-90.3
	11		16.9		-90.0
WIFI 5G 802.11a	36	6Mbps	14.4	6Mbps	-89.5
	149		14.9		-89.0
	165		14.2		-88.5
WIFI 5G 802.11a	36	54Mbps	14.4	54Mbps	-74.2
	149		15.0		-72.3
	165		14.3		-72.2