



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	2022/12/29
编号 File No	22122902
版本 Revision	1.0

客户
CUSTOMER:

Fanvil Technology Co., LTD.

客户料号
CUSTOMER NO:

EADA100032A0

品名
PART NAME:

WIFI双频Antenna L=90mm

供方料号
SUPPLIER NO:

YJL01.106.040.302A

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



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RoHS
Compatible

CUSTOMER

PART NO

REV.

DESCRIPTION

DATE

A

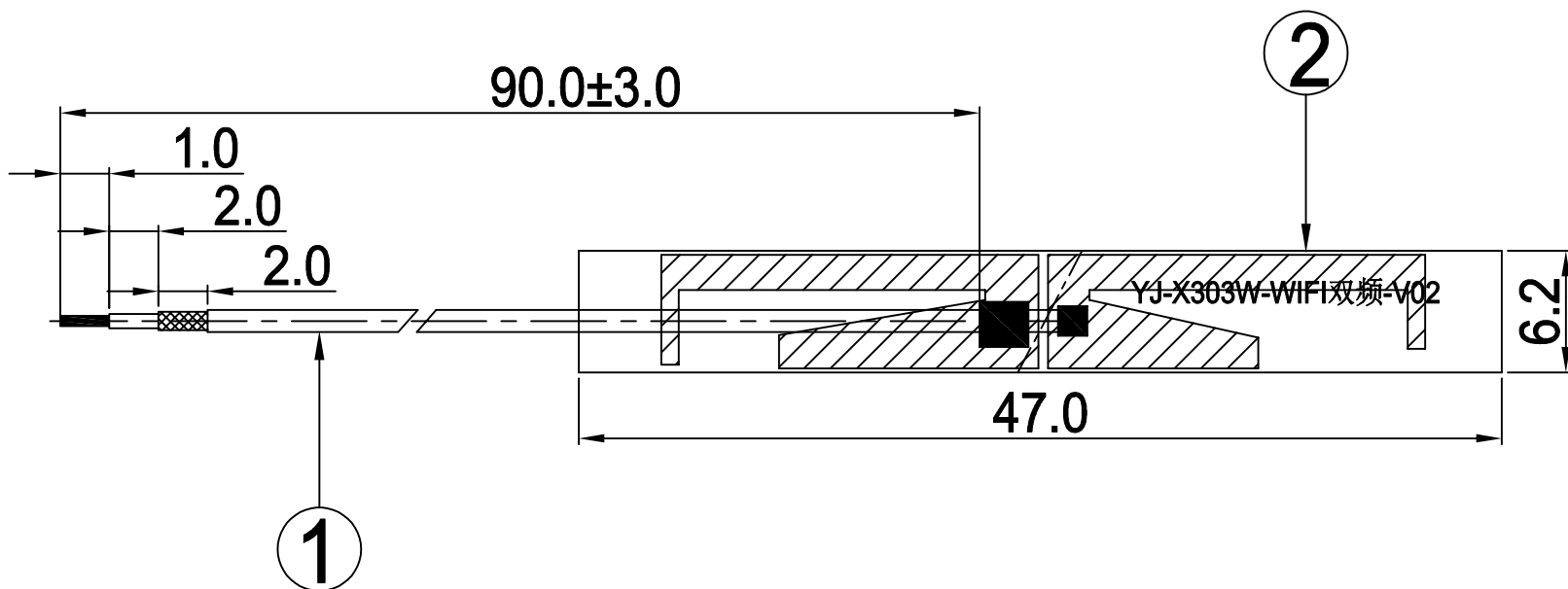
首次发行

2022-11-21

B

修改线长

2023-01-03



东莞市一佳电子通讯科技有限公司

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

PART NAME: WIFI双频 Antenna L=90mm

PART NO.: YJL01.106.040.302A

DATE: 2023-01-03

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance
X.X ±0.50
X.XX±0.15
X° ±3°

何清军

周颖杰

廖光喜

UNITS: mm

SCALE: 1/1

REVISION: B

2	FPC	47.0*6.2mm	FPC	FPC11XXA.P01	1
1	Coaxial Cable	O.D.1.13 Black	O.D.1.13	COA100XXA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY

1

2

3

4

5

6

7

8



天线规格

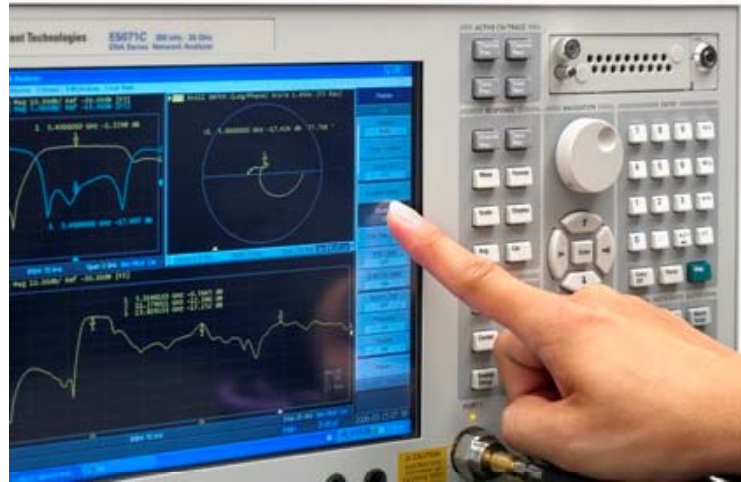
Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max@2.4-2.5GHz 2.5 Max@5.15-5.85GHz
Gain	3.1 dBi@2.4-2.5GHz 4.7 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	None
Cable Type	O.D.1.13mm
Cable Length	90mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

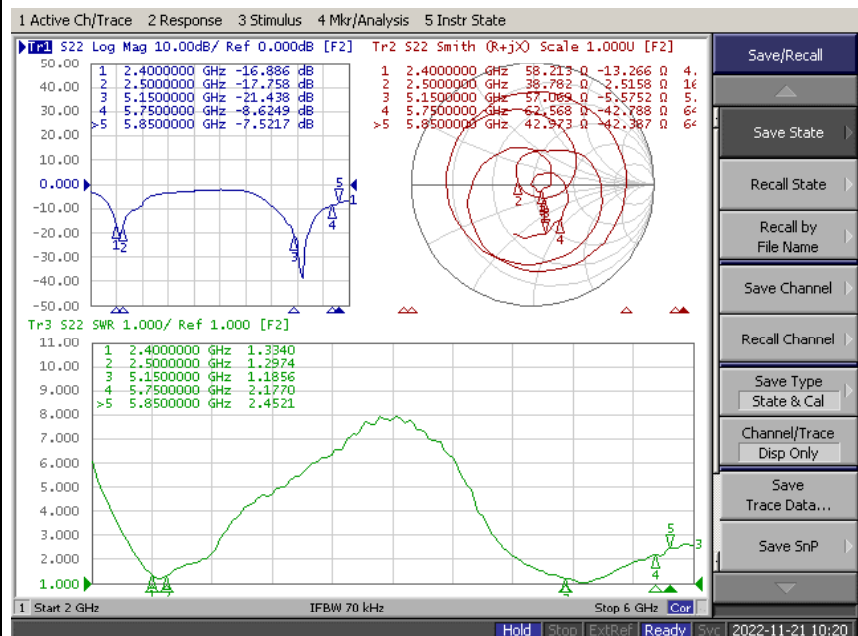


Antenna Performance Test

**Agilent
E5071B**

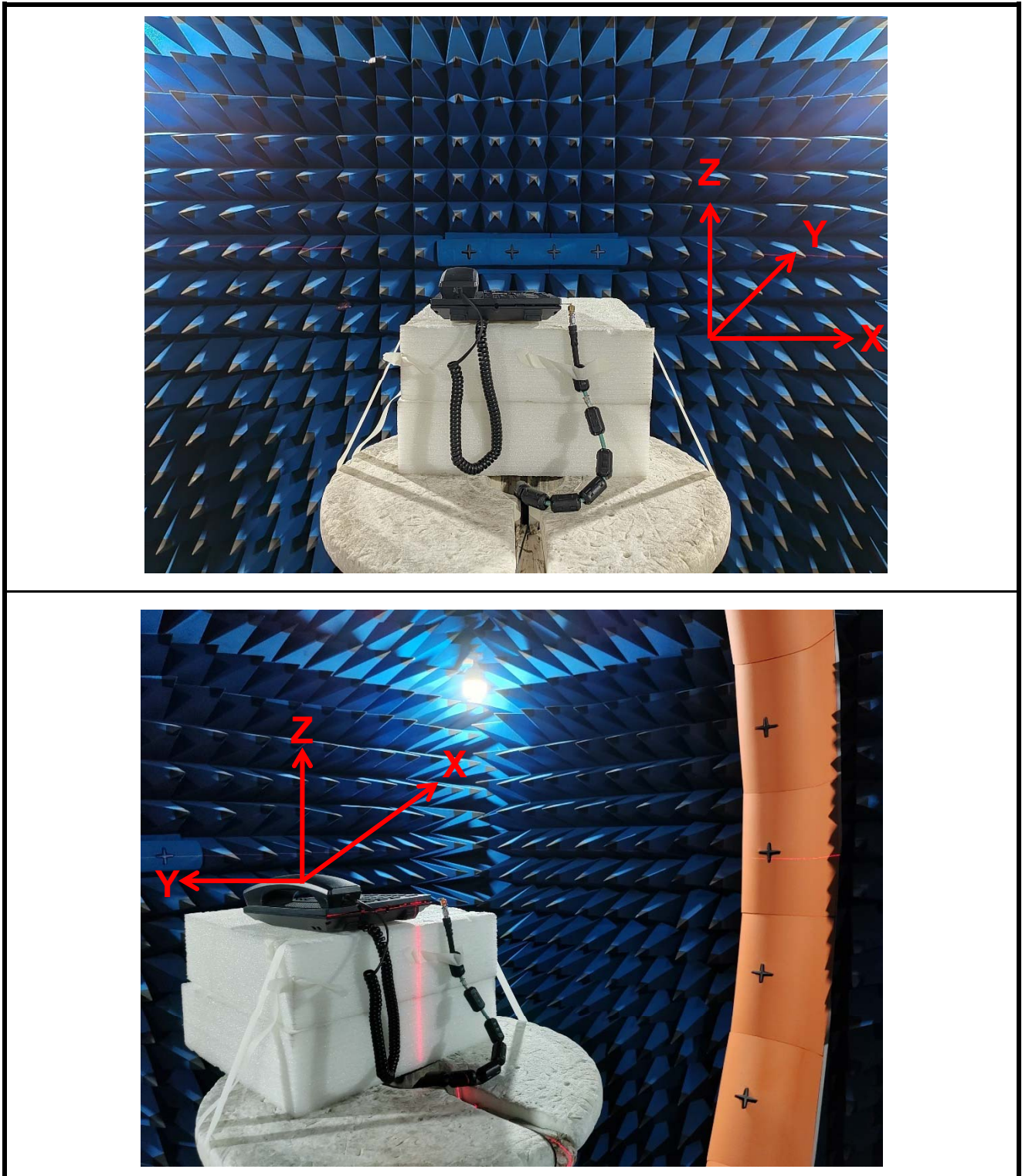


**S
Parameter
Test //
WIFI
Antenna**





Antenna Passive Test





Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	49.7	-3.0	2.8
2410	50.0	-3.0	2.9
2420	49.8	-3.0	2.8
2430	49.4	-3.1	2.8
2440	48.5	-3.1	2.6
2450	50.6	-3.0	3.0
2460	48.8	-3.1	2.6
2470	50.5	-3.0	3.1
2480	48.9	-3.1	2.7
2490	49.8	-3.0	3.0
2500	47.8	-3.2	2.5

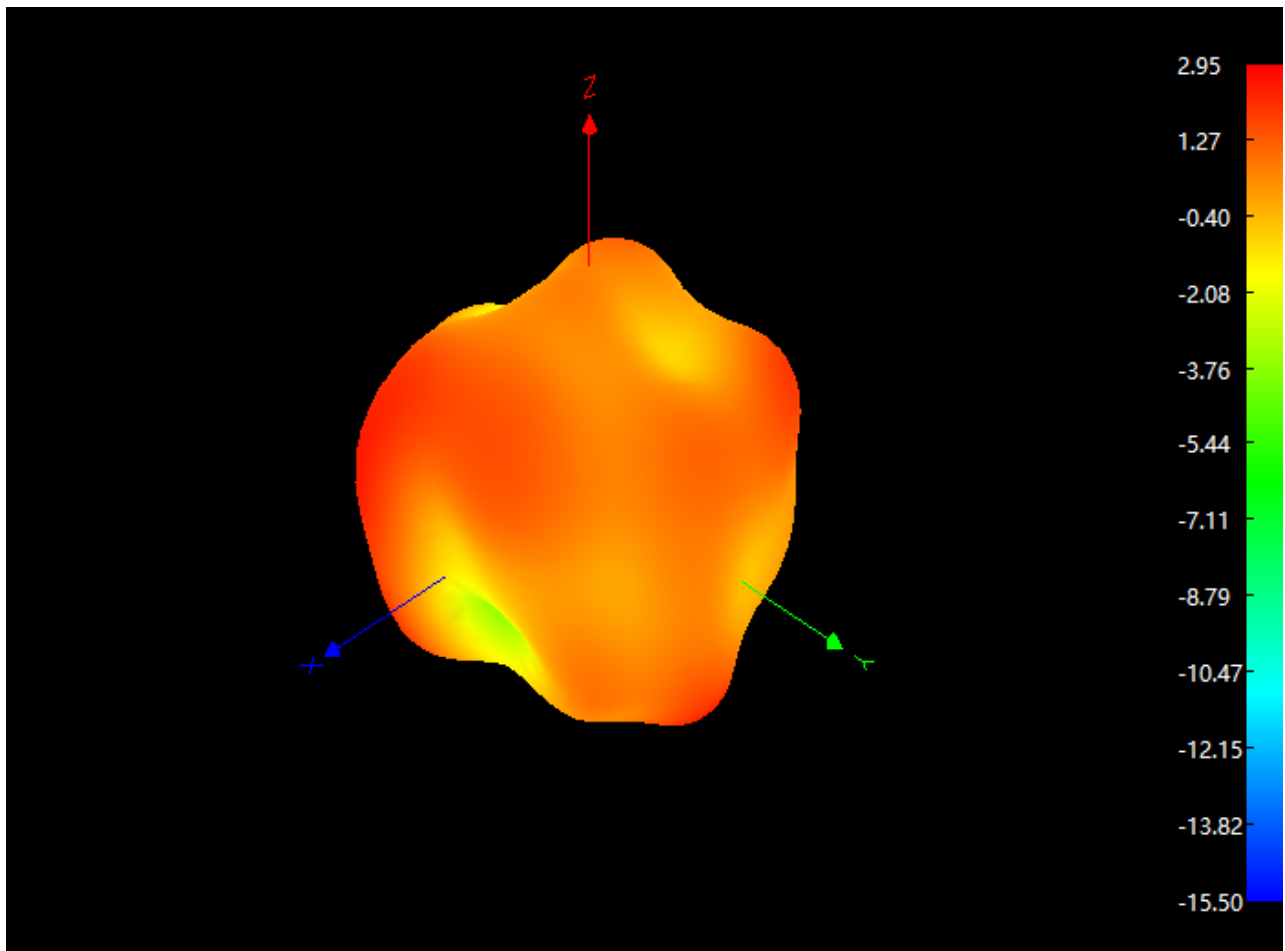


Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	57.9	-2.4	4.2
5200	57.9	-2.4	4.5
5250	56.9	-2.5	4.7
5300	54.3	-2.7	4.4
5350	50.5	-3.0	4.1
5400	53.2	-2.7	4.2
5450	50.4	-3.0	3.8
5500	44.5	-3.5	3.3
5550	49.1	-3.1	3.8
5600	50.9	-2.9	3.9
5650	42.5	-3.7	3.2
5700	44.9	-3.5	3.4
5750	55.7	-2.5	4.2
5800	50.5	-3.0	4.0
5850	42.3	-3.7	3.3

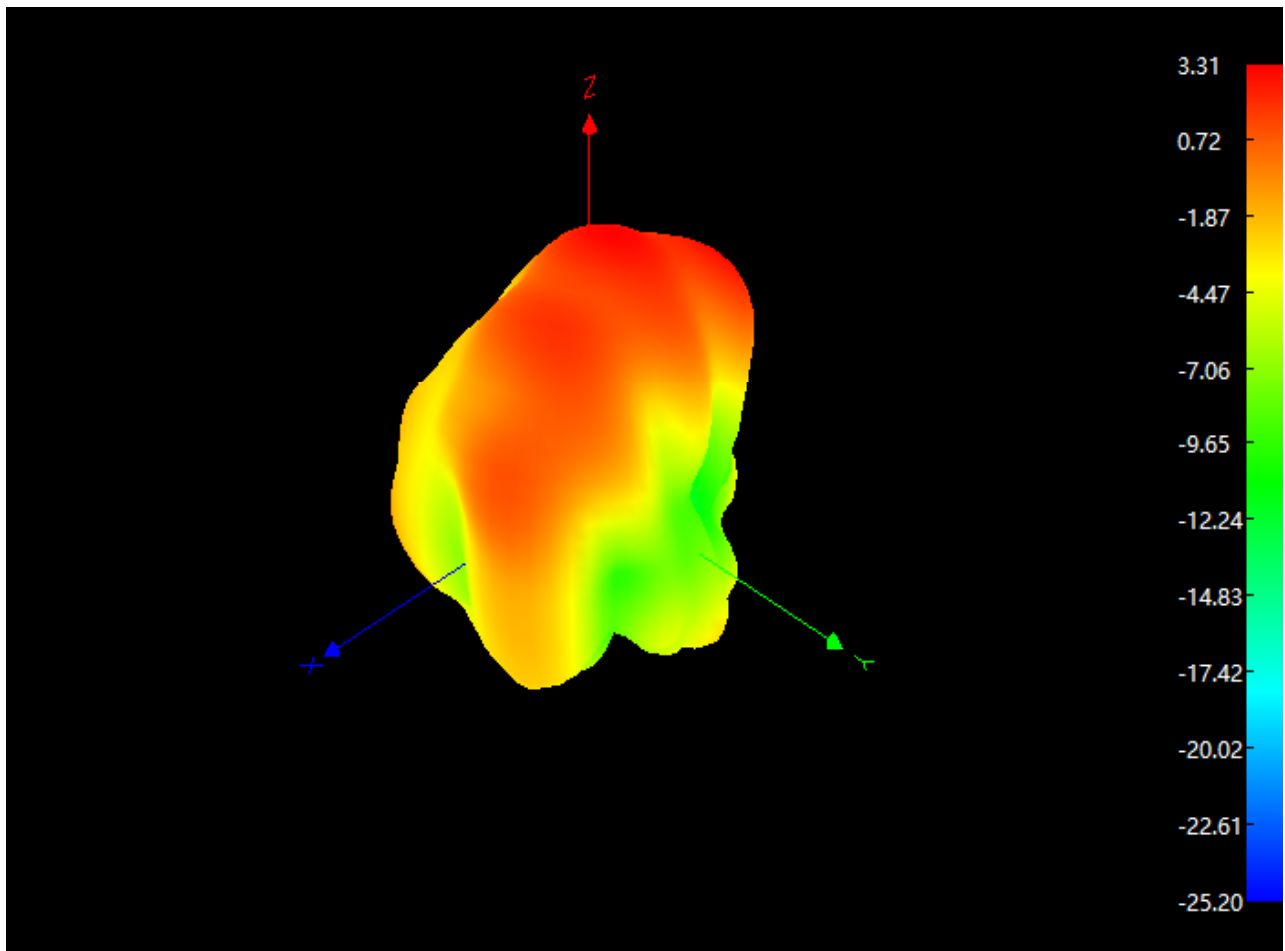


Radiation Pattern For WIFI Antenna(2450MHz)





Radiation Pattern For WIFI Antenna(5500MHz)





Antenna Active Test

Active Test For WIFI Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	13.8	11Mbps	-82.3
	6		14.5		-82.5
	11		14.7		-82.9
WIFI 2.4G 802.11g	1	54Mbps	13.0	54Mbps	-69.9
	6		13.9		-70.1
	11		14.2		-70.7
WIFI 2.4G 802.11n	1	MCS7	12.0	MCS7	-65.5
	6		12.7		-65.8
	11		13.2		-66.6
WIFI 5G 802.11a	149	54Mbps	17.0	54Mbps	-70.1
	157		16.9		-70.3
	165		16.7		-70.0