



SPECIFICATIONS FOR APPROVAL

All data in this report only represent the data when the sample antenna is correctly installed in the designated test object. Replacing the test object or changing the installation method and position of the antenna will render the data in the report invalid.

Antenna manufacturer: Shenzhen Lejin radio frequency technology Co., LTD

Company Address: 3rd Floor, Building A4, No. 176 Chongqing Road, Fuhai Street, Bao'an District, Shenzhen, Guangdong Province. (Phone number: 13603098741)

Customer Name: 智纬

Product Name: MP21

Product Model: WIFI MAIN ANT

Part Number: LJF02-240808002M-R0A

Write By : 李明进

Issued Date: 2024/8/8

CUSTOMER

ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY	DATE	Edition/Part number

LEJIN

R&D DEPT	ENGINEER R&D DEPT	APPROVAL	DATE	Edition/Part number

ECN/ECR			

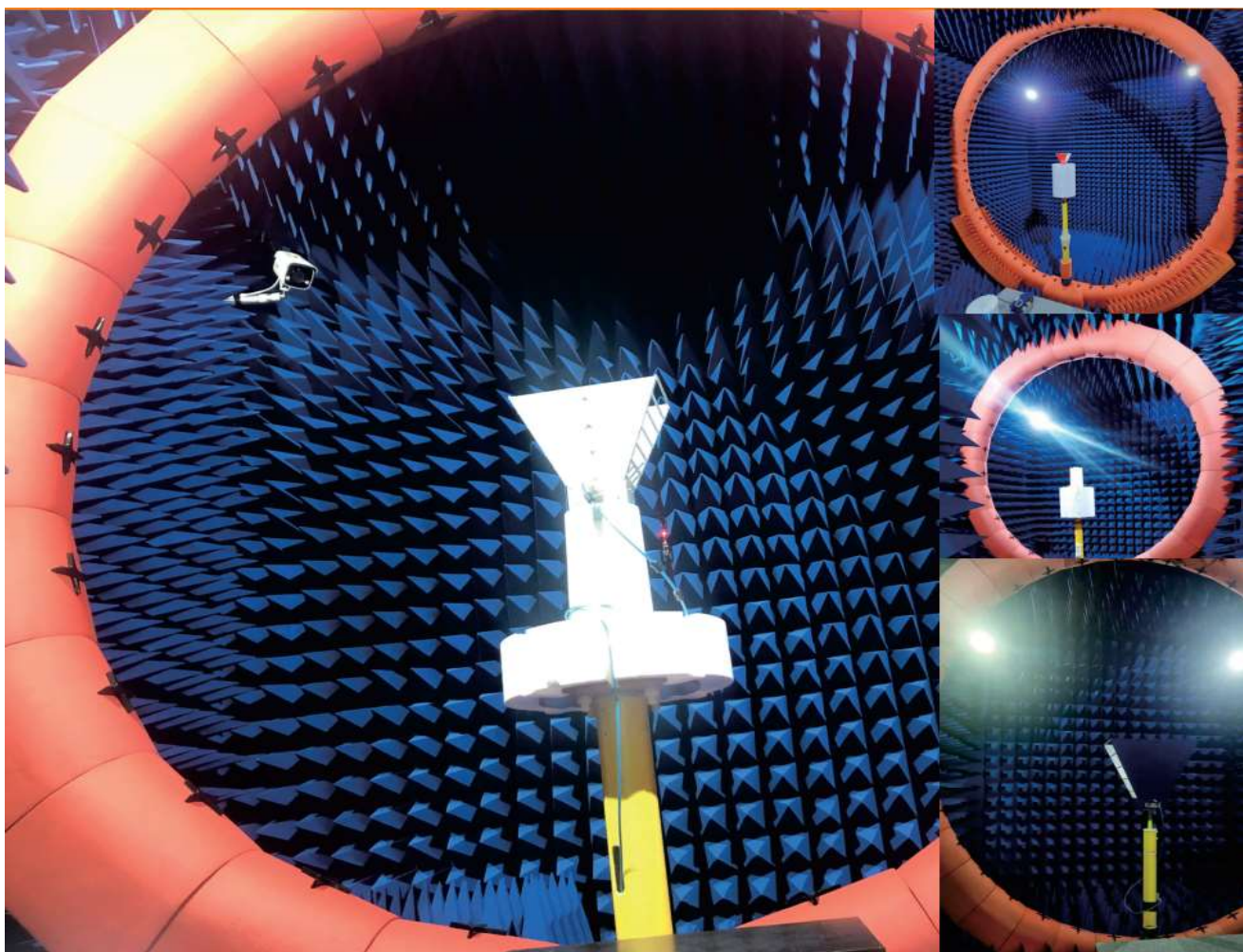
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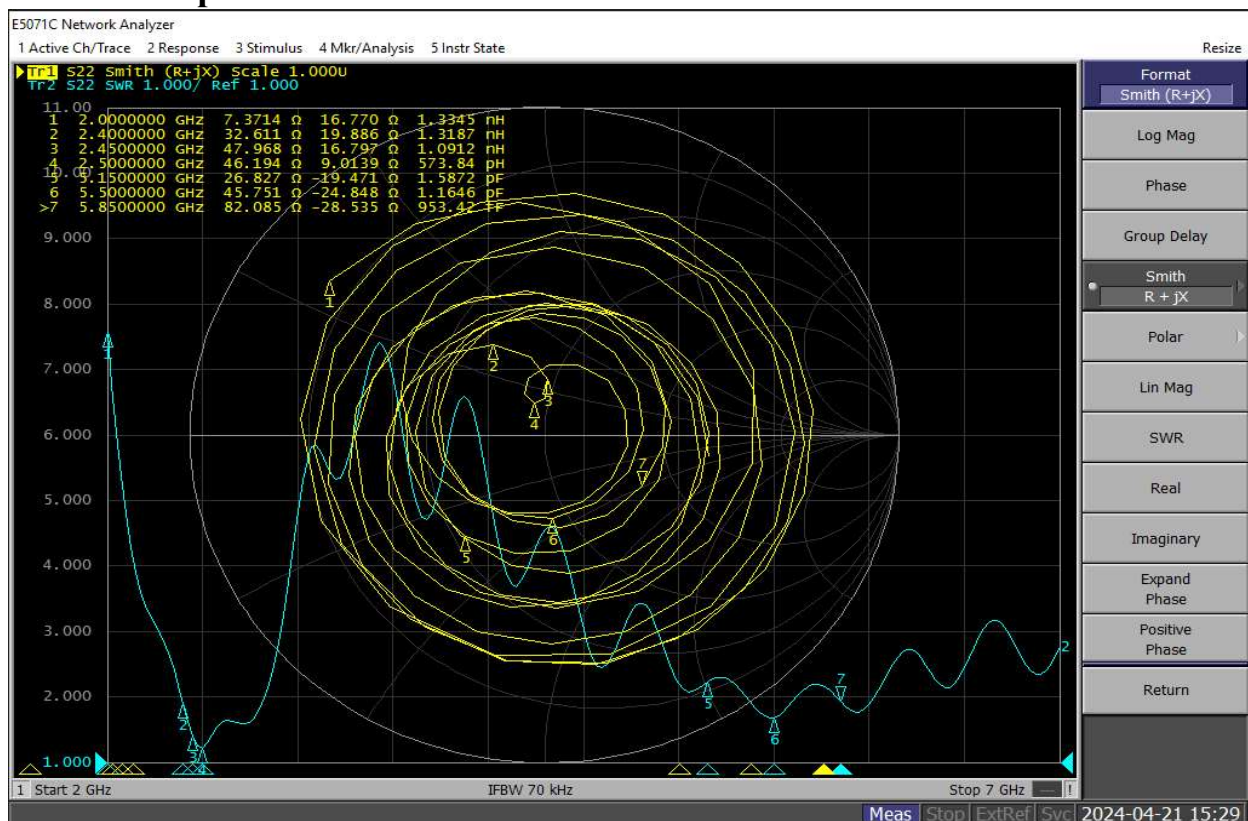
Electrical Characteristics					
Frequency	VSWR	Efficiency	Impedance	Polarization	Gain
2400 MHz ~2500 MHz	<2	>25%	50 Ohm	Linear	≥1 DB
5100MHZ--5900 MHZ	<2.5	>30%	50 Ohm	Linear	≥1 DB
Material & Mechanical Characteristics			Environmental		
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
FPC black/YELLOW	113黑色	KCC451-140		- 20 °C ~ + 50 °C	- 30 °C ~ + 80 °C

Test Equipment & Conditions

1. Network Analyzers :Agilent 8753SE 5071C
2. Communications Test Set:Agilent E5515C/CMW500
3. 3D Chamber Test System(ETS743)

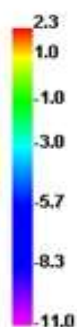
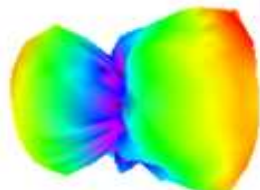


Antenna Impedance: WIFI ANT M:

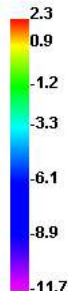
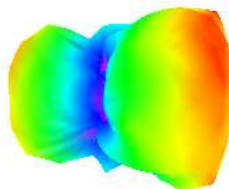


2.4G (Wifi and BT)	Freq (MHz)	2400	2410	2420	2430	2450	2460	2470	2480	2490	2500	ANT M
	Effi (%)	24.55	28.55	30.12	30.75	33.45	29.98	32.57	33.45	33.41	29.58	
	Gain (dBi)	2.12	2.34	2.46	2.88	2.99	1.98	2.45	2.27	2.25	2.12	
5G WIFI	Freq (MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950	6000	
	Effi (%)	30.35	33.25	35.46	37.58	39.29	35.47	33.56	36.58	34.74	33.11	
	Gain (dBi)	2.57	2.88	2.02	2.15	2.08	2.15	1.88	2.27	2.15	2.02	

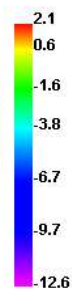
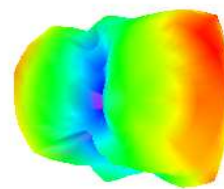
2400.000MHz



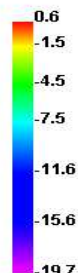
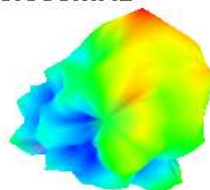
2450.000MHz



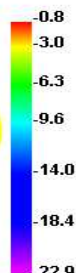
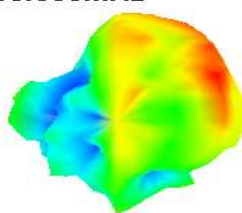
2480.000MHz



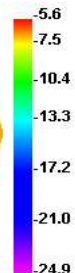
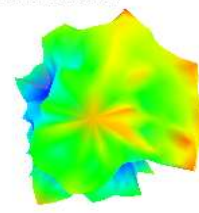
5150.000MHz



5350.000MHz



5850.000MHz

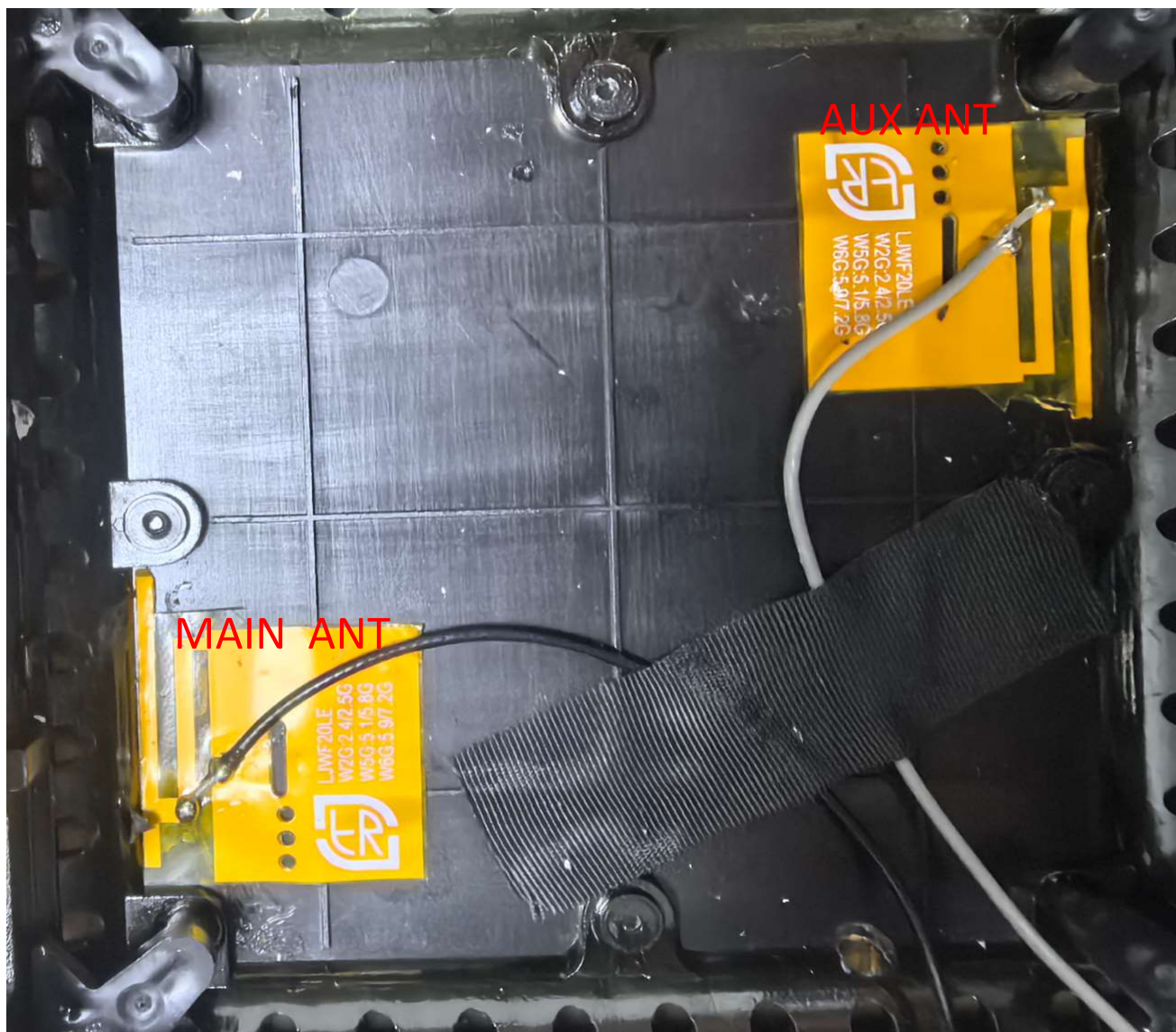


OTD_DATA:(以下OTD_DATA是在本规格书中的天线所测试得来,更换天线或更改天线的安装方式,以下OTD_DATA将会失效)以下数据配合WIFI AUX天线一起测得。

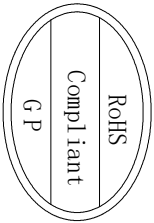
2.4G 802.11.B @11Mbit		
Frequency	TRP (dBm)	TIS (dBm)
1 (2412MHz)	11.23	-71.95
6 (2437MHz)	10.95	-71.33
13 (2472MHz)	10.11	-70.56

5G 802.11 A @54MBPS		
Frequency	TRP (dBm)	TIS (dBm)
36 (5180MHz)	12.77	-73.33
60 (5300MHz)	13.15	-74.56
161 (5805MHz)	12.56	-74.11

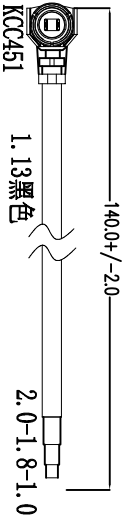
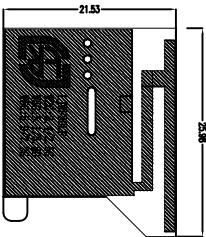
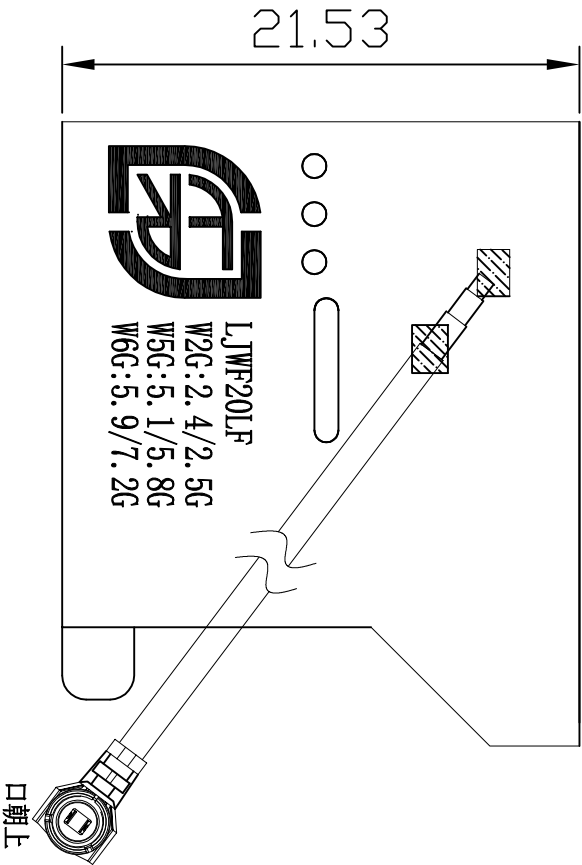
天线安装与工艺处理要求与说明:



Drwing:



26.04



深圳乐进射频科技有限公司
SHEN ZHEN LEJIN RADIO FREQUENCY CO.,LTD

Project: MP21 Part Name: WIFI MAIN ANT Date: 2024-08-08

Part No: JYT0918A Checked by: MD

Material: L.JF01-18091801-R0A RF

Location: 40~ ±0.15 Angle: ±0.04 Treatment: L.JF02-240808002M-R0A

Unit: mm Scale: FIT Rev: A

Rev			Description		Date	Remark	Location		Third Angle		Project	Part Name	Date	Designed by	Checked by	MD	RF	Scale	FIT	Rev	A
1											0~10	±0.05	○	0.02							
											10~18	±0.10	◎	0.03							
											18~30	±0.12	⊥	0.02							
											30~40	±0.15	∠	0.04							
											40~	±0.20	Angle	±0.5°							
2			Description		Date	Remark	Location		Third Angle		Project	Part Name	Date	Designed by	Checked by	MD	RF	Scale	FIT	Rev	A
3											MP21	WIFI MAIN ANT	2024-08-08								
											JYT0918A										
											L.JF01-18091801-R0A										
											L.JF02-240808002M-R0A										
1																					