



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: Zwide

Product Name: MP21

Product Model: WIFI AUX ANT

Part Number: LJF02-240808002A-R0A

Write By : Star_Li

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			

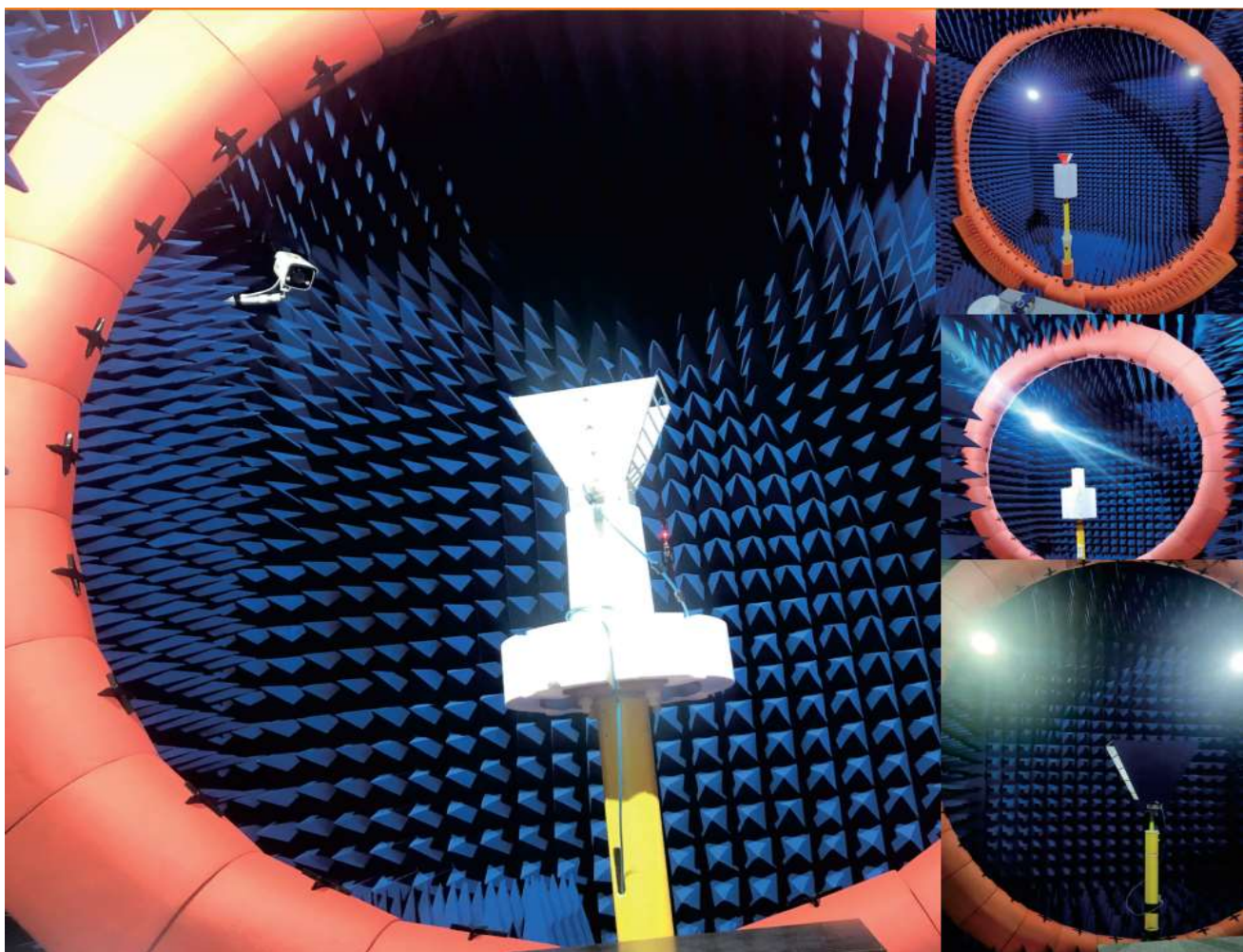
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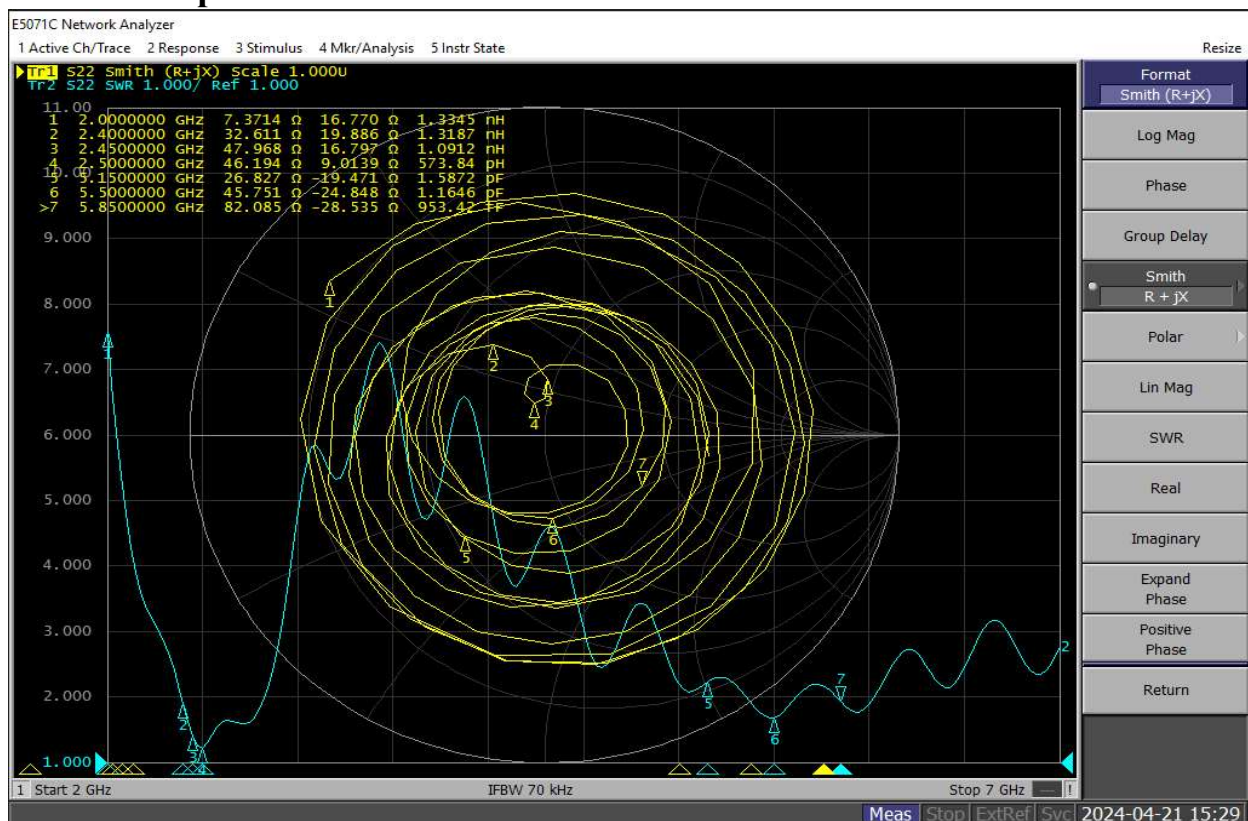
Electrical Characteristics					
Frequency	VSWR	Efficiency	Impedance	Polarization	Gain
2400 MHz ~2500 MHz	<2	>25%	50 Ohm	Linear	≥1 DB
5100MHZ--5900 MHZ	<2.5	>30%	50 Ohm	Linear	≥1 DB
Material & Mechanical Characteristics			Environmental		
Material of Radiator	Cable Type	Connector Type	Dimension	Operation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

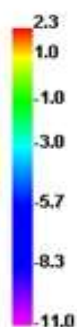
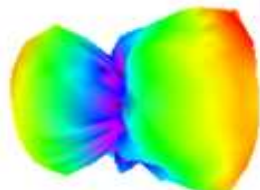


Antenna Impedance: WIFI ANT A:

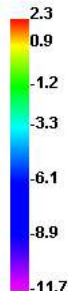
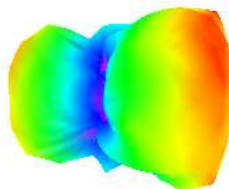


2.4G (Wifi and BT)	Freq (MHz)	2400	2410	2420	2430	2450	2460	2470	2480	2490	2500	ANTA
	Effi (%)	25.37	27.68	31.25	32.77	35.46	31.95	30.69	32.74	32.56	38.82	
	Gain (dBi)	2.12	2.34	2.46	2.88	2.99	1.98	2.45	2.27	2.25	2.12	
5G WIFI	Freq (MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950	6000	
	Effi (%)	35.99	40.41	39.59	41.23	42.77	44.56	42.02	43.77	44.65	43.47	
	Gain (dBi)	2.57	2.88	2.02	2.15	2.08	2.15	1.88	2.27	2.15	2.02	

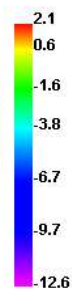
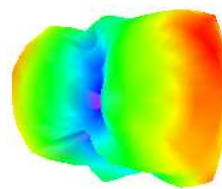
2400.000MHz



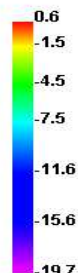
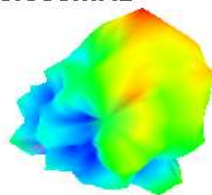
2450.000MHz



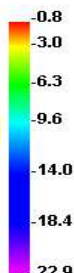
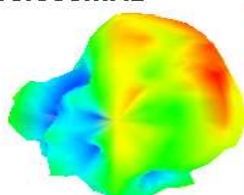
2480.000MHz



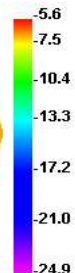
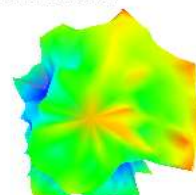
5150.000MHz



5350.000MHz



5850.000MHz

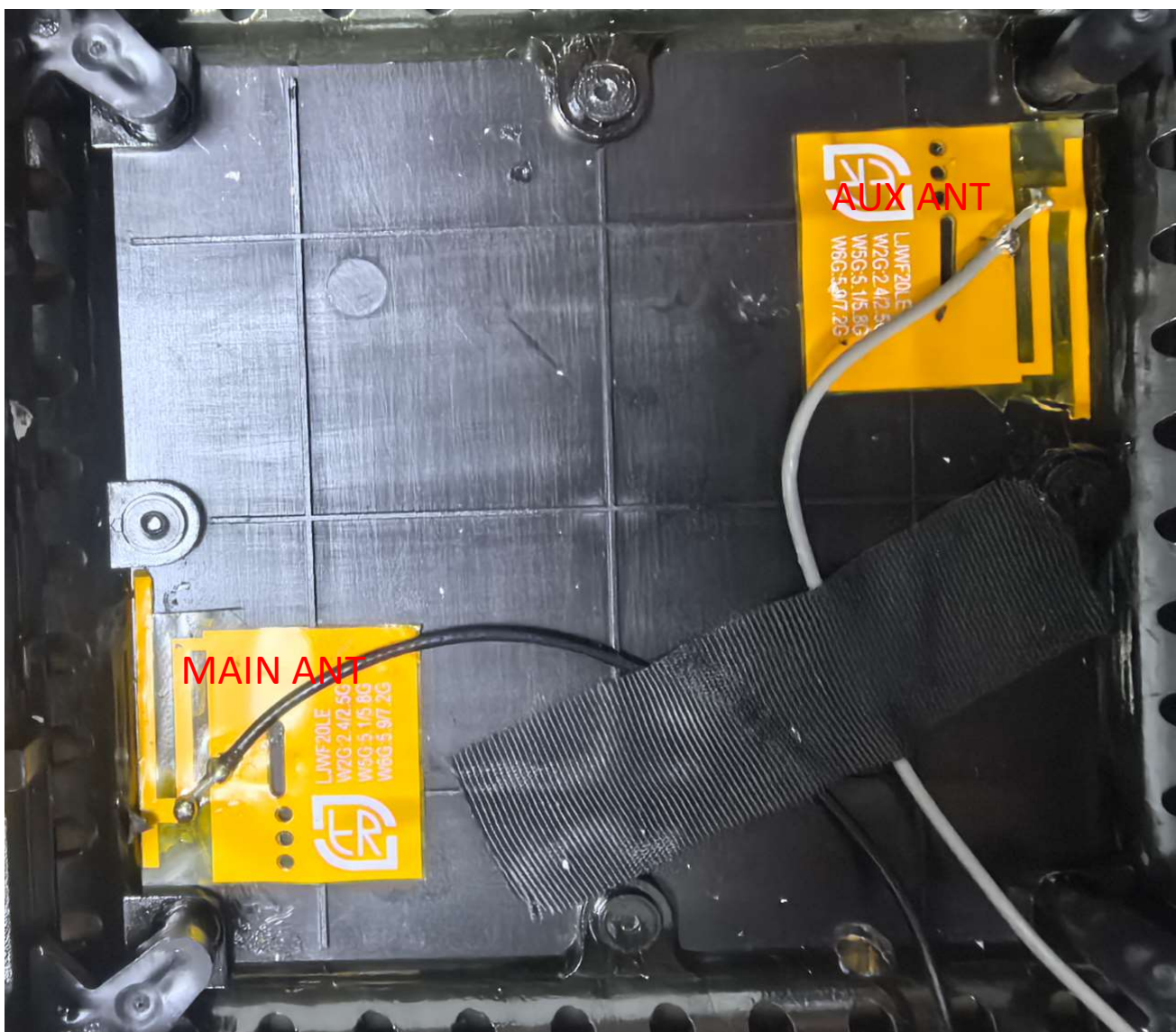


OTD_DATA: The following OTD_DATA was obtained from testing the antenna in this specification document. If the antenna is replaced or the installation method is changed, the following OTD_DATA will become invalid. The following data was measured together with the WIFI Main antenna.

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:



Driving:

THESE MINUTE RECORDS, IN