



SPECIFICATIONS FOR APPROVAL

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: ELC

Product Name: LJF02-26040202M-R0A

Product Model: V3 AMP WIFI 0 ANT

Part Number:

Write By : 李明进

Issued Date: 2026/4/30

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
		李明进		数字签名者: 李明进 DN: cn=李明进, o=乐进射频, ou=研发, email=13603098741@163.com, c=无 日期: 2026.05.13 17:58:35 +08'00'

ECN/ECR			



Index

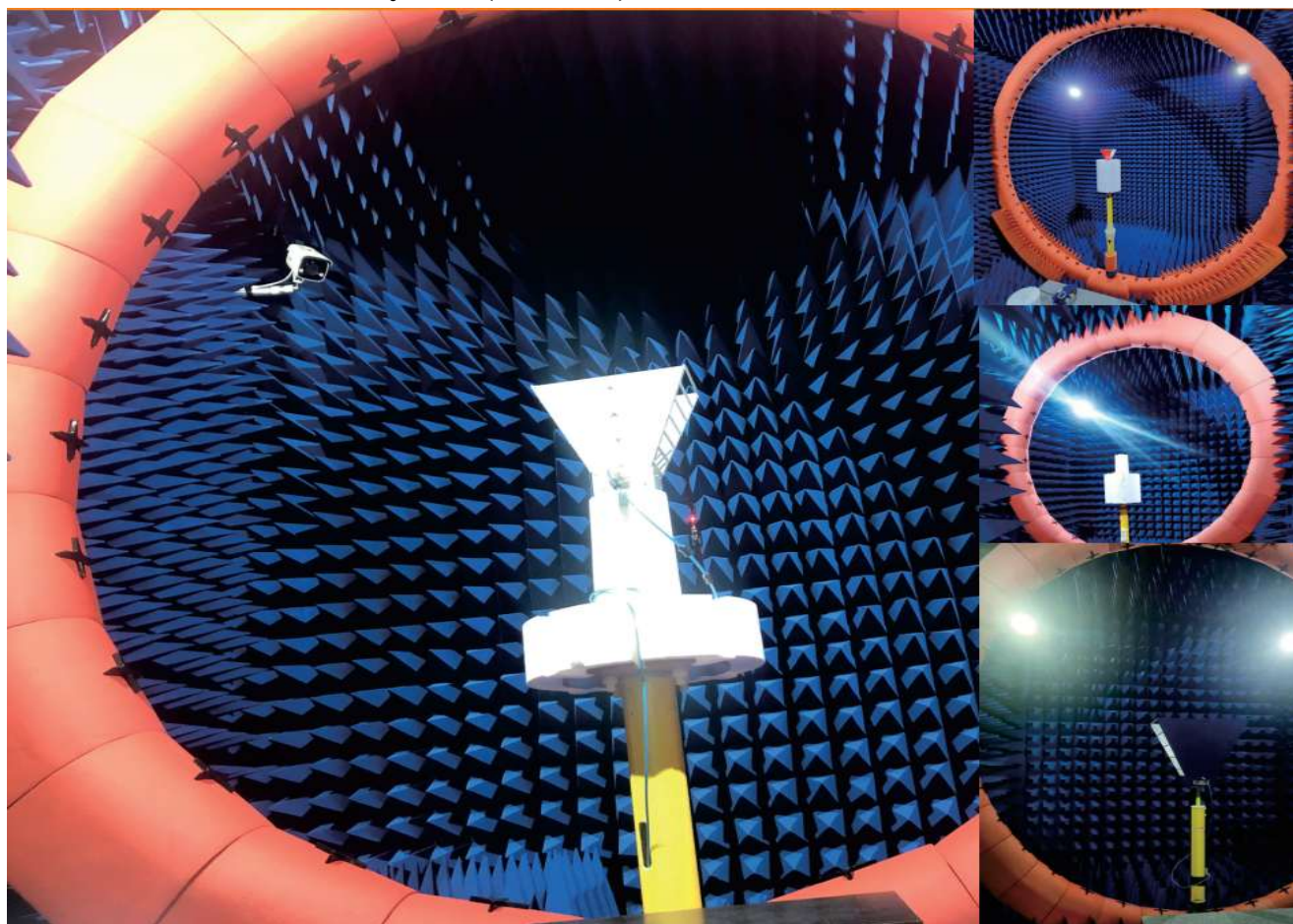
- 1、 (Cover)
- 2、 (Index)
- 3、 (Product Specification)
- 4、 (Test Equipment & Conditions)
- 5、 (Test Report)
- 6、 (Antenna Picture)

Summary of the basic data of the antenna:

Electrical Characteristics					
Frequency	VSWR	Efficiency	Impedance	Polarization	Gain
2400 MHz ~2500 MHz	<1.5	>40%	50 Ohm	Linear	$\geq 4.6\text{DB}$
5100MHz ~5900 MHz	<2.0	>45%	50 Ohm	Linear	$\geq 3.0\text{ DB}$
5900MHz ~7125 MHz	NA				
Material & Mechanical Characteristics				Environmental	
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
BL	1.13 BLACK	KCC1B1		- 20 °C ~ + 50 °C	- 30 °C ~ + 80 °C

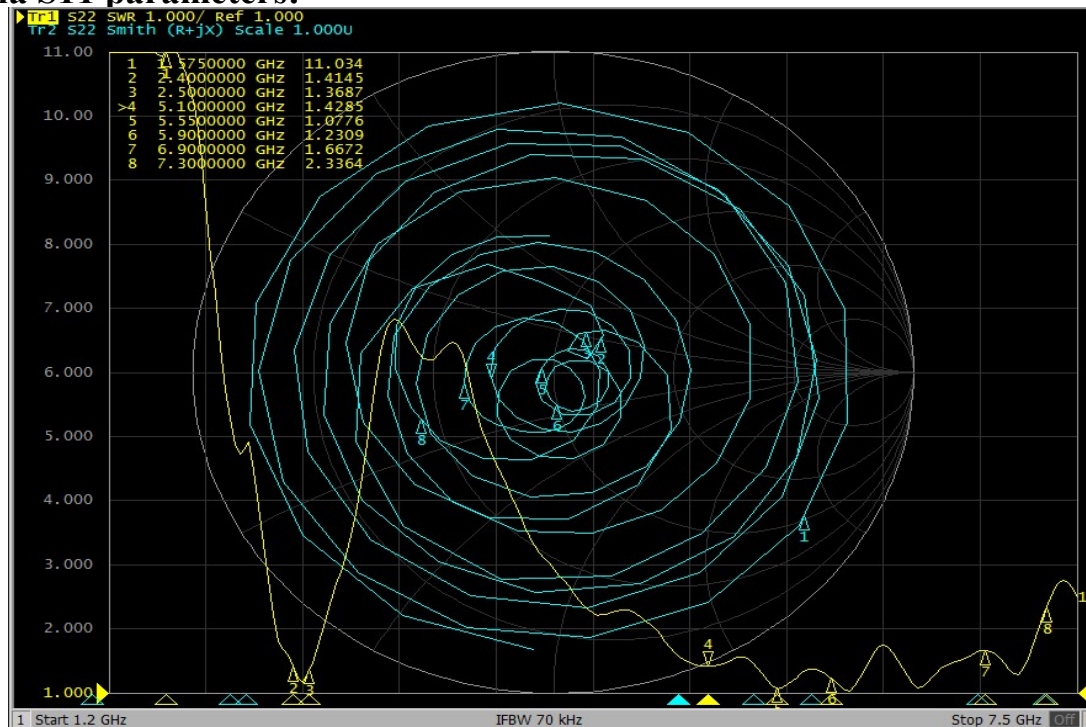
Test Equipment & Conditions

1. Network Analyzers :Agilent 5071C
2. Communications Test Set:Agilent E5515C/CMW500/AT8826
3. 3D Chamber Test System(ETS743)/STM23+1



Detailed data of antenna:

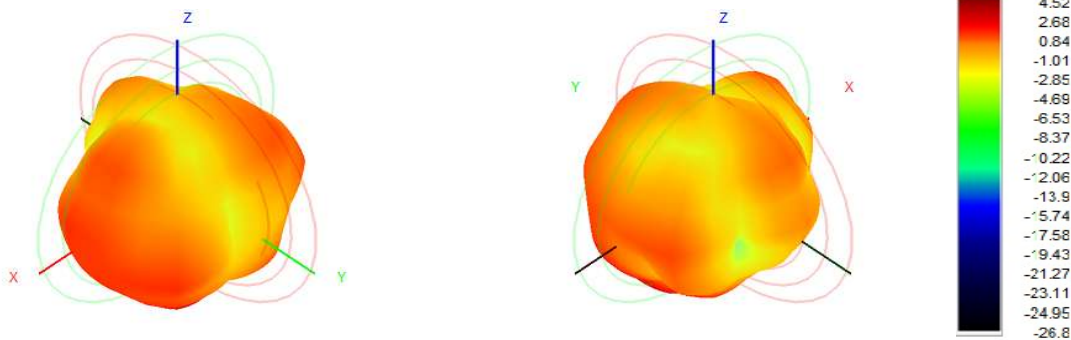
Antenna S11 parameters:



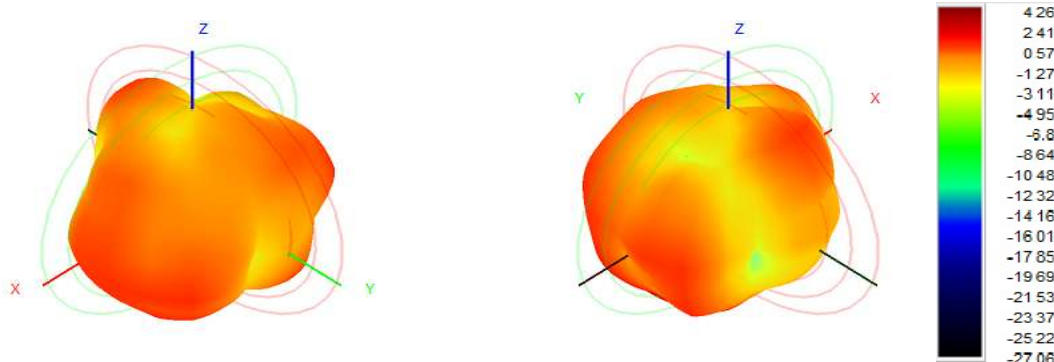
Antenna efficiency:

2.4G (Wifi/BT)	Freq	(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480		
	Effi	(%)	39.51	40.69	41.22	40.68	41.77	42.12	42.96	42.96	42.30		
	Gain	(dBi)	4.44	4.52	4.46	4.33	4.35	4.26	4.24	4.18	4.19		
5G WIFI	Freq	(MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950	6550	7150
	Effi	(%)	57.12	52.86	56.82	52.37	51.39	49.07	45.78	44.12	45.74	44.92	43.39
	Gain	(dBi)	1.54	1.68	2.16	2.37	2.67	2.09	2.80	2.17	1.69	2.37	2.71

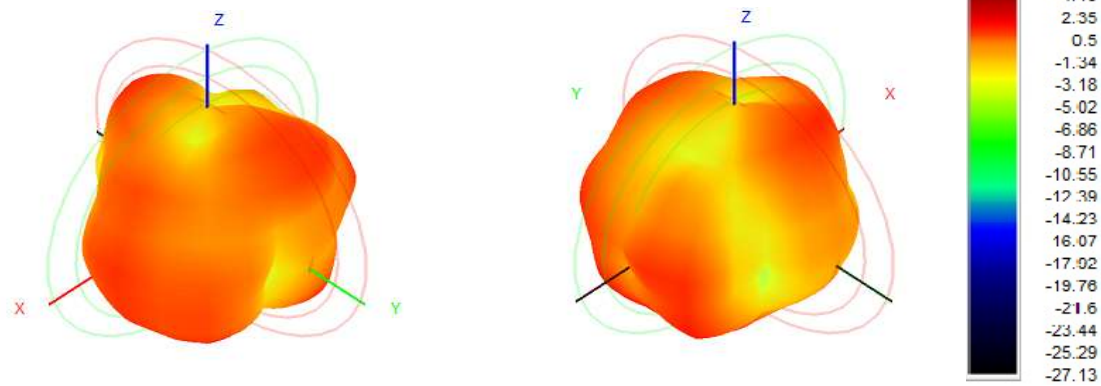
2410.0MHz H+V, Eff: 40.7%



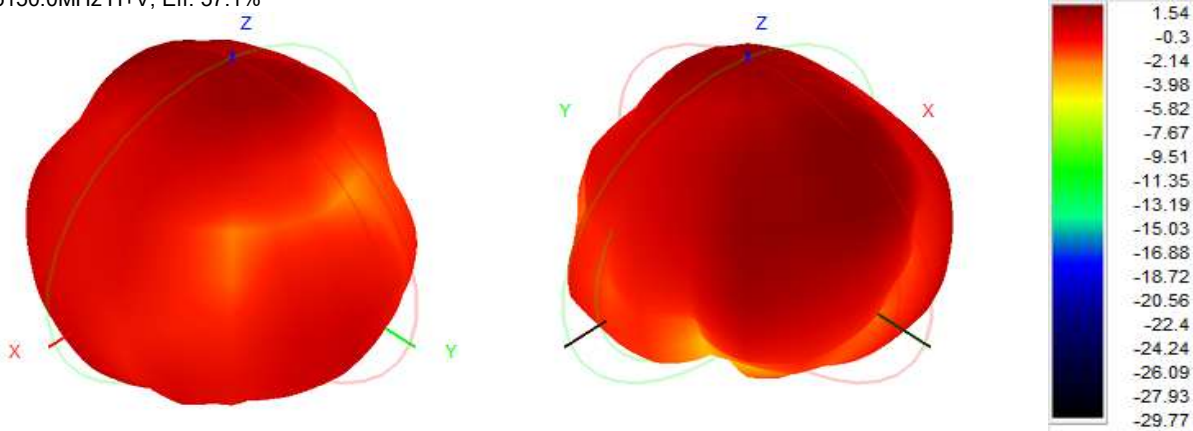
2450.0MHz H+V, Eff: 42.1%



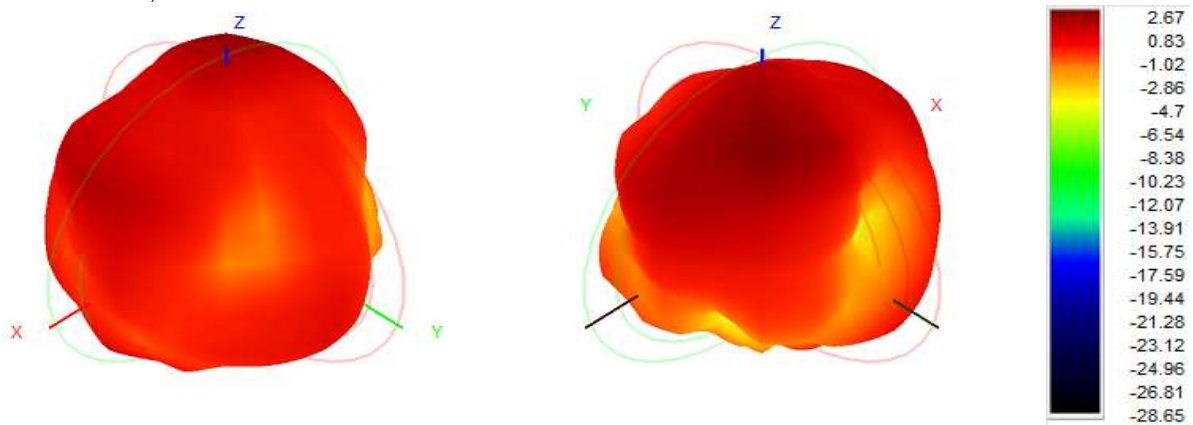
2480.0MHz H+V, Eff: 42.3%



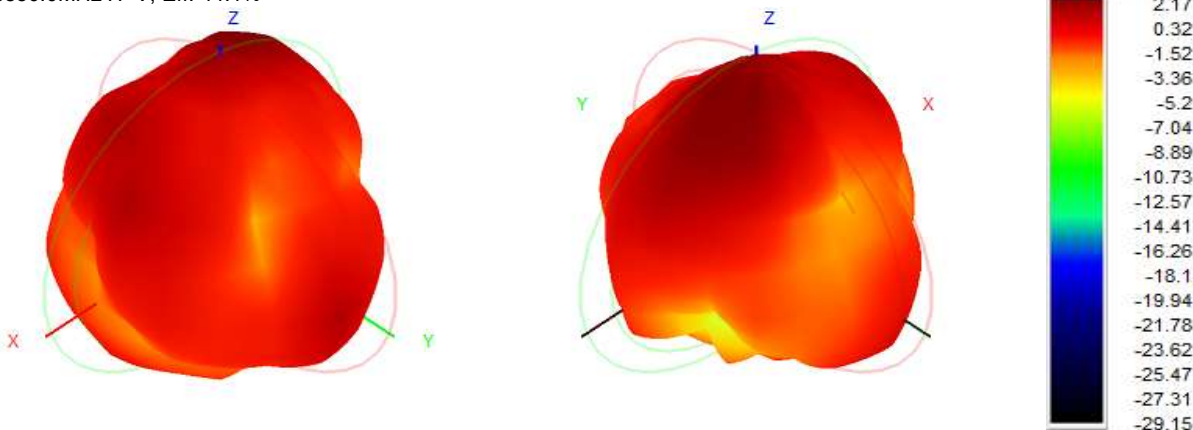
5150.0MHz H+V, Eff: 57.1%



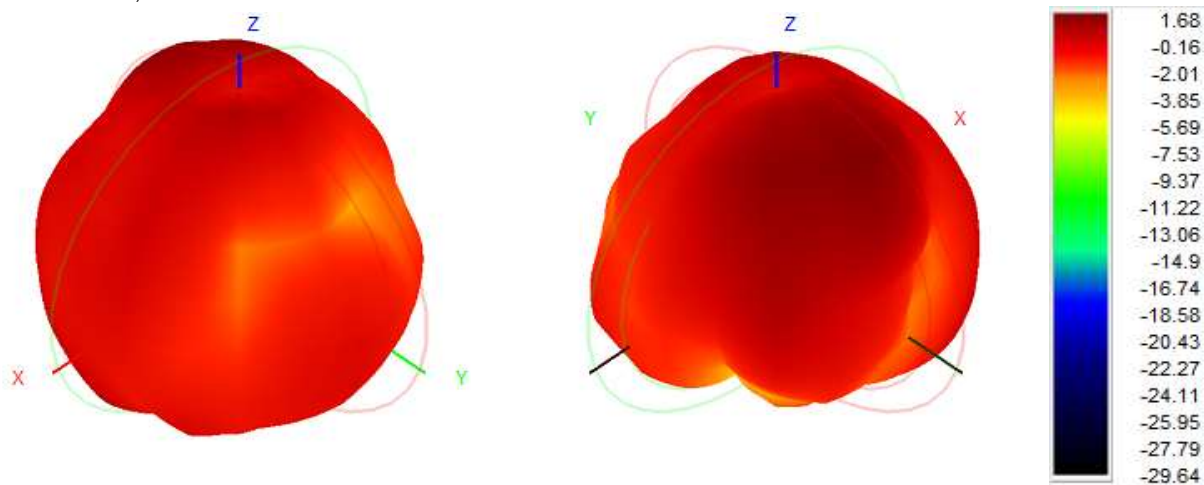
5550.0MHz H+V, Eff: 45.7%



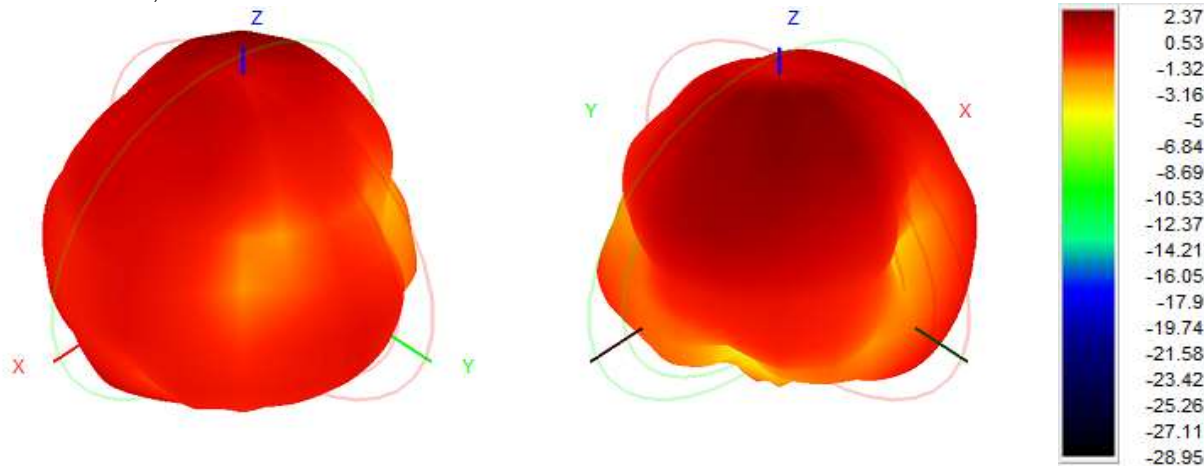
5850.0MHz H+V, Eff: 44.1%



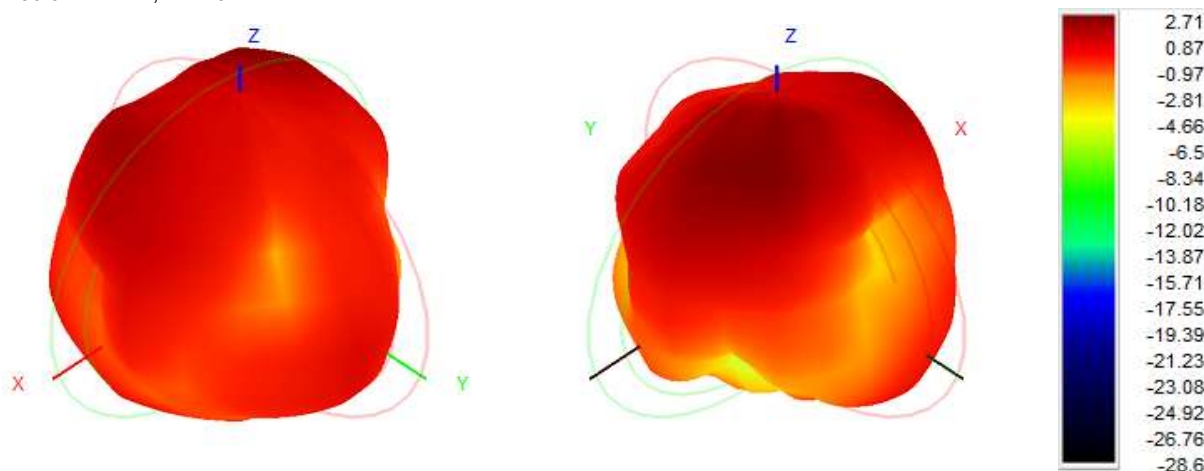
5950MHz H+V, Eff: 52.9%



6550.0MHz H+V, Eff: 44.9%



7150.0MHz H+V, Eff: 43.4%

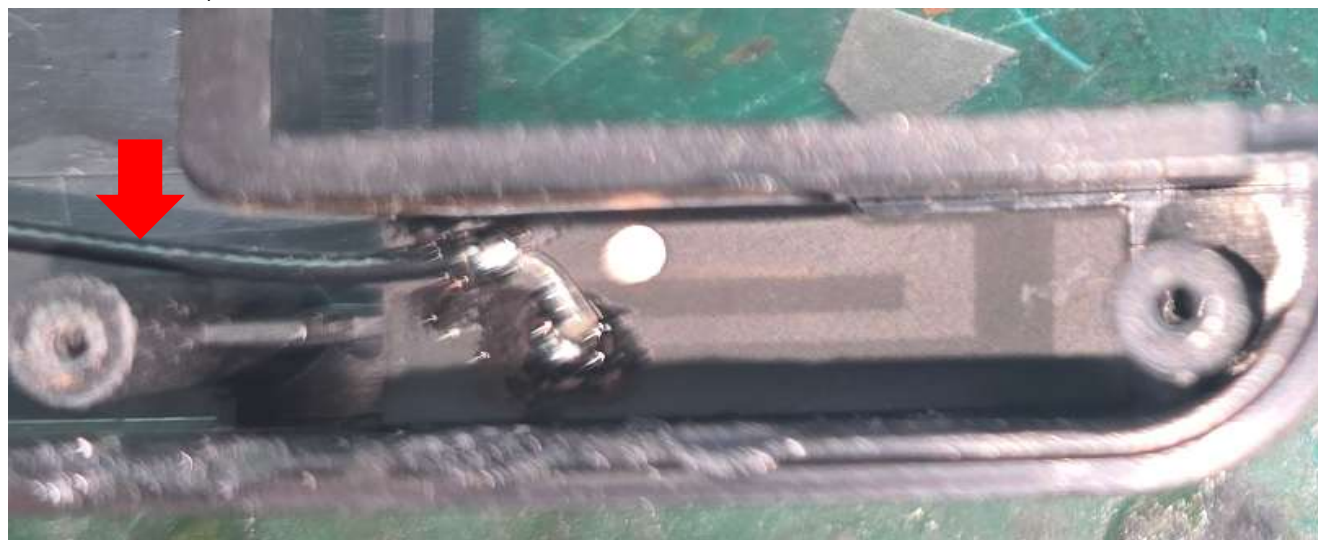


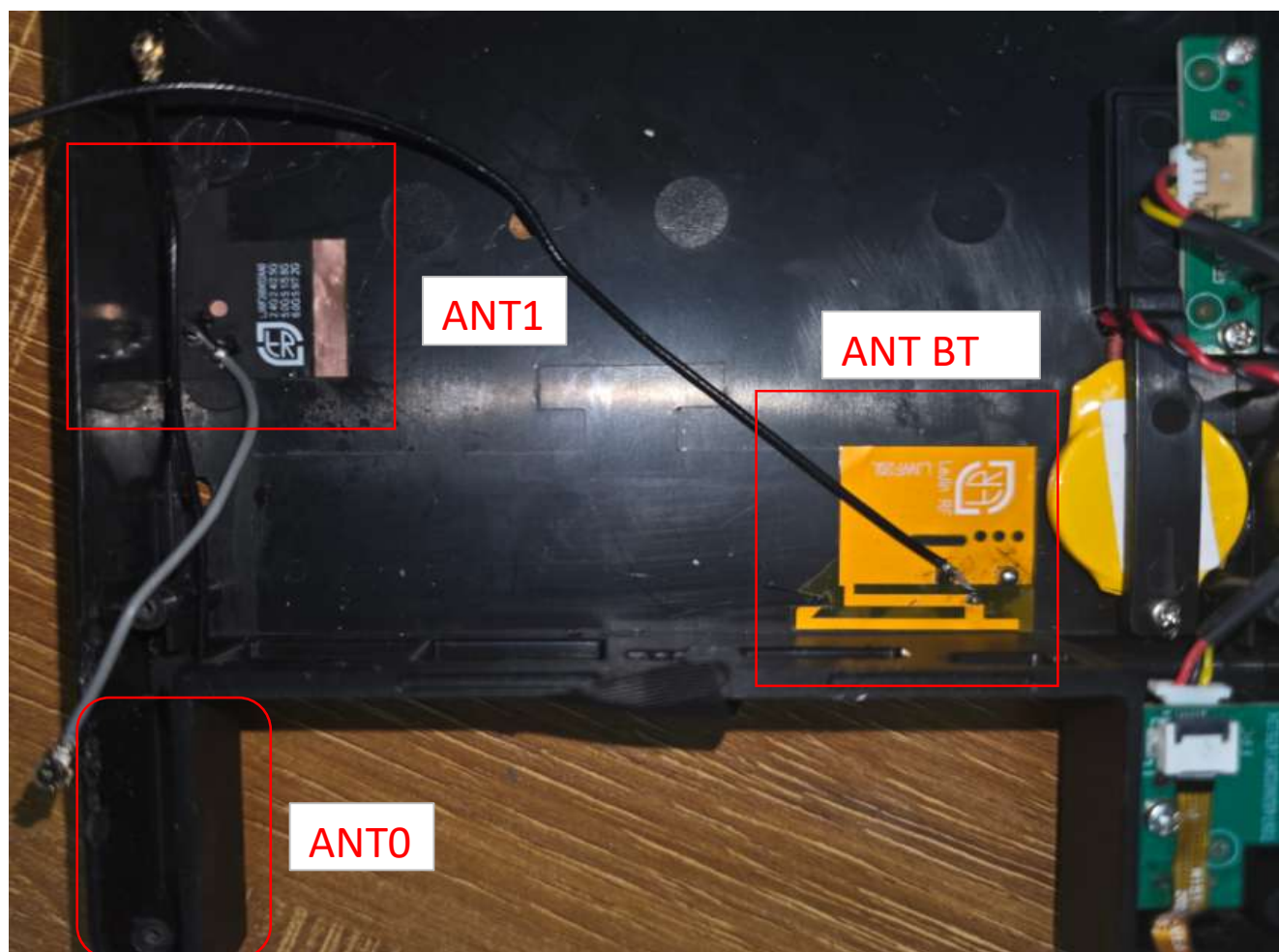
Active OTA: (Combined with wifi1 ANT measurement for composite data)

WIFI Antenna Performance Table														
TRP /TIS(dBm)			15.84	-81.13	TRP /TIS(dBm)			14.35	-72.99	TRP /TIS(dBm)			11.79	-67.99
802.11B	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)	802.11G	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)	802.11AX	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)
Tx_11M / Rx_11M	1	2412	15.55	-83.47	Tx_6M / Rx_54M	1	2412	14.13	-73.89	Tx / Rx MCS7 20MBIT	1	2412	11.23	-69.89
	6	2437	16.27	-80.56		6	2437	14.96	-72.75		6	2437	12.96	-66.75
	11	2462	15.69	-79.35		11	2462	13.97	-72.32		11	2462	11.17	-67.32
FI Whole Band TRP /TIS(dBm)			14.75	-71.23	FI Whole Band TRP /TIS(dBm)			13.61	-68.01	FI Whole Band TRP /TIS(dBm)			13.34	-66.58
802.11A	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)	802.11AC	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)	802.11AX	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)
Tx_6M / Rx_54M	36	5180	14.75	-72.16	Tx / Rx MCS7 20MBIT	36	5180	13.34	-68.25	Tx / Rx MCS7 20MBIT	36	5180	12.94	-67.11
	149	5745	14.96	-70.66		149	5745	13.51	-67.77		149	5745	13.72	-66.15
	165	5825	14.53	-70.87		165	5825	13.98	-68.02		165	5825	13.35	-66.47

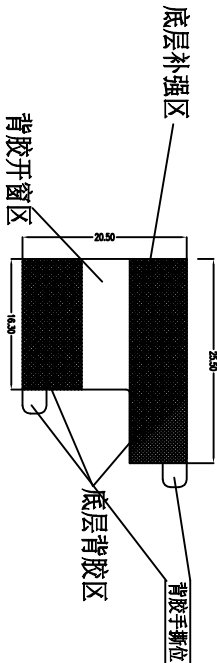
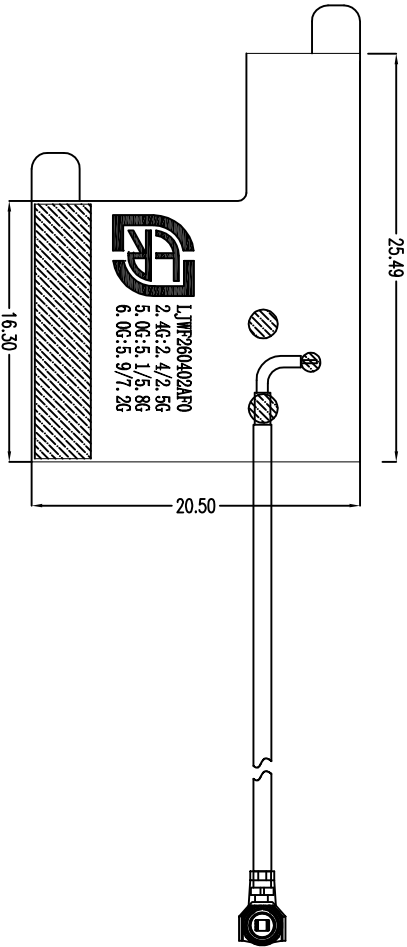
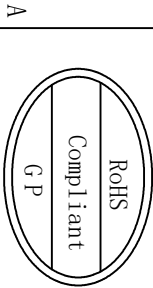
Antenna Installation:

This data is the parameter of this antenna.

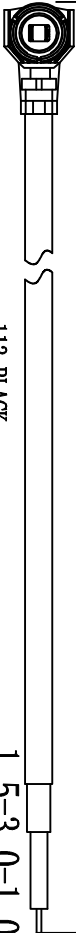




Drawing:



76.0+/-1.5



113-1代 (D)



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

Project: V3AMP ANT0 Date: 2026-04-02

Part Name: Part No. Checked by: MD

Material: L.JWF260402F0 RF

Location: 40~ ±0.20 Angle: ±0.5°

Treatment: L.JF02-26040202M-R0A

Unit: mm Scale: FIT Rev: A

1	2	3	4	5	6	7	8
Rev	Description	Date	Remark				
A	New drawing						
1							