



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

Customer Name:吉祥星

Product Name:R1568 (AX101)WIFI AUX ANT

Product Model:

Part Number:LJF02-24031808A-R0A

Write By :Star Li

Issued Date:2024/3/21

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			

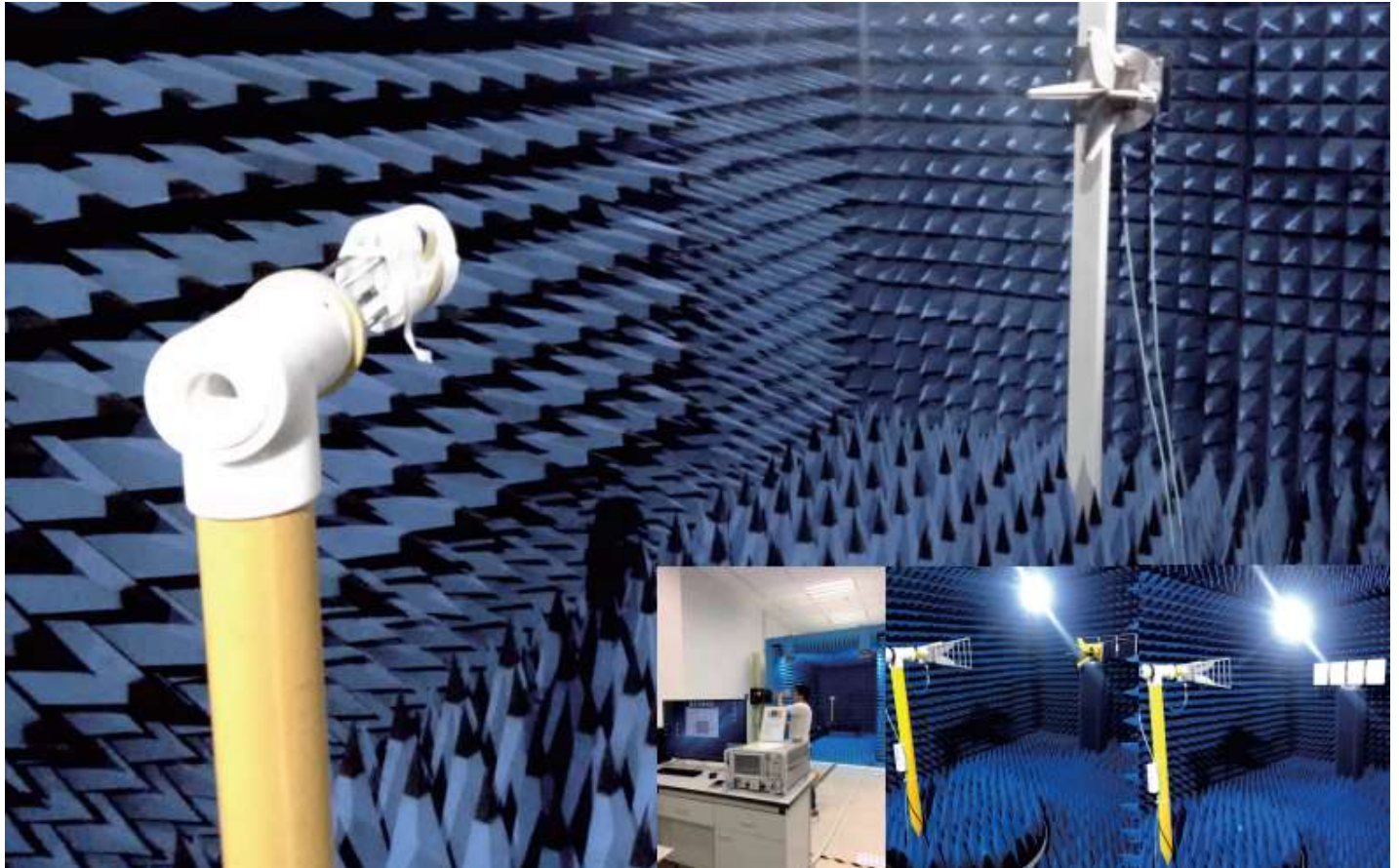
Index

- 1、Cover
- 2、Index
- 3、Product Specification
- 4、est Equipment & Conditions
- 5、Test Report
- 6、Antenna Picture
- 7、Transmission line Specification
- 8、Product Drawing



Test Equipment & Conditions

1. Network Analyzers :Agilent 8753SE 5071C
2. Communications Test Set:Agilent E5515C/CMW500
3. 3D Chamber Test System(ETS743)/Satimo(433)





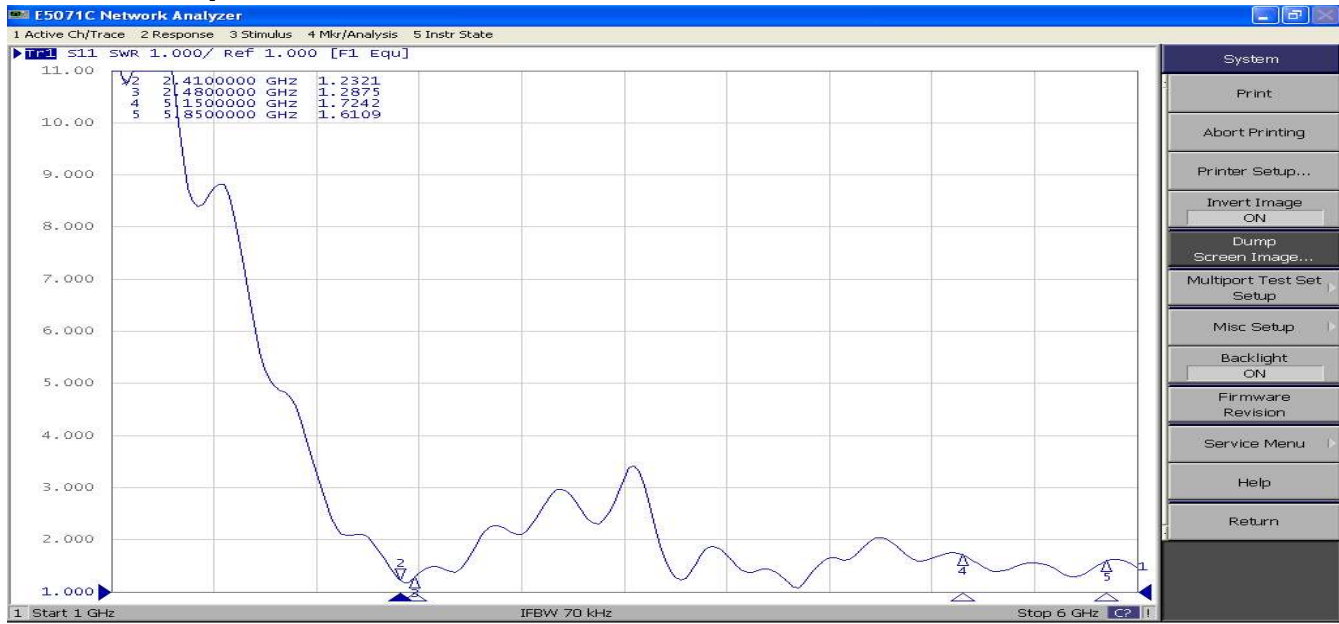
共用 (LJF02-230421001-A-ROA)

Ant. Type	Frequency (MHz)	VSW R	Efficiency	Impedance (Ohm)	Polarization	Gain (Peak gain with cable loss)(dBi)	Cable Loss(dB)
Dipole	2400 ~2500	<2	>40%	50	Linear	1.44	0.25
	5100 -5900	<2.5	>40%	50	Linear	1.26	0.37
Cable Type		Cable Length (mm)	Connector Type		Operation Temperature		Storage Temperature
SY113/50-001-C		355mm	Cocentra ANC01131-451		- 20 °C ~ + 70 °C		- 30 °C ~ + 80 °C

WIFI Antenna Performance Table

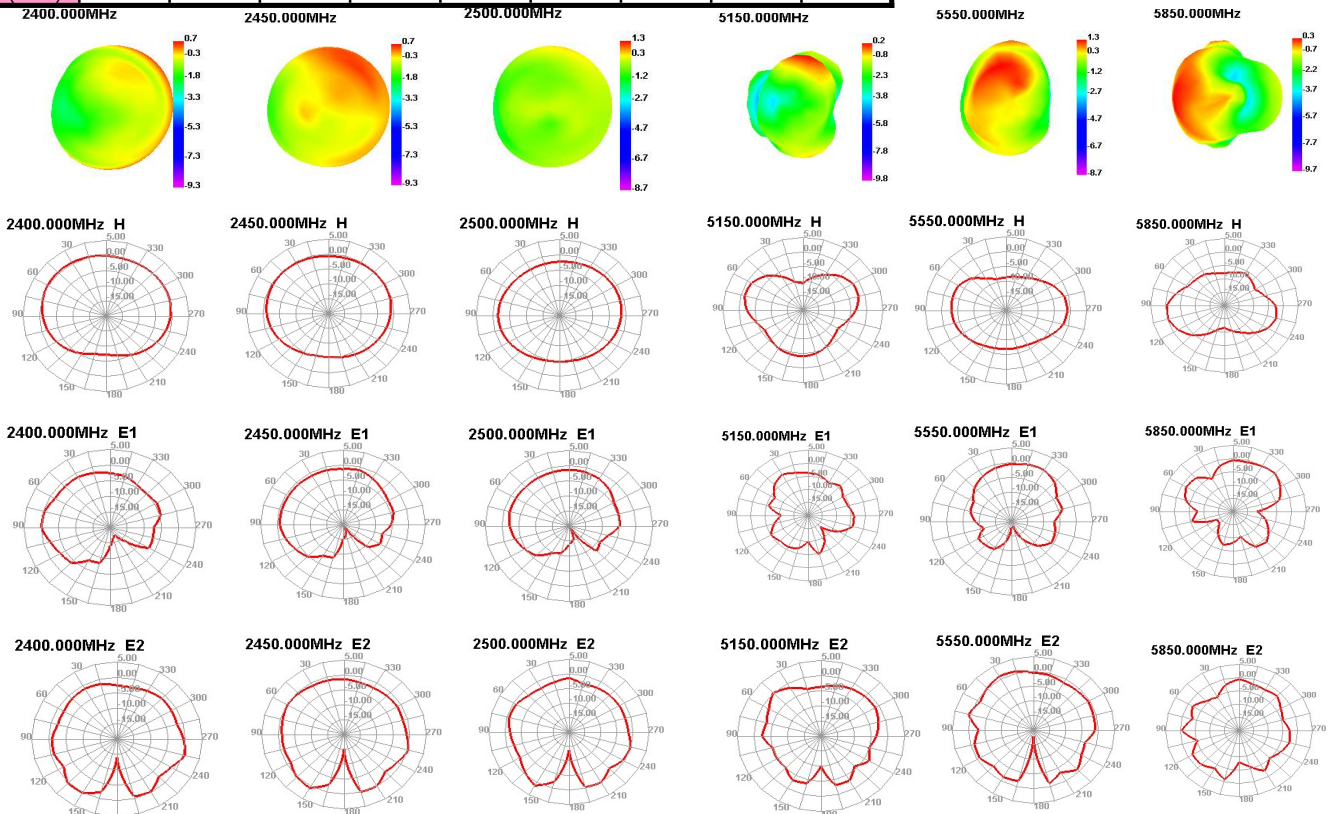
Band TRP /TIS(dBm)		11.42	-81.41	Band TRP /TIS(dBm)		10.30	-68.93	Band TRP /TIS(dBm)		11.64	-70.59	Band TRP /TIS(dBm)		11.08	-68.70
802.11B	Channel No.	TRP (dBm)	TIS (dBm)	802.11G	Channel No.	TRP (dBm)	TIS (dBm)	802.11A	Channel No.	TRP (dBm)	TIS (dBm)	802.11AC	Channel No.	TRP (dBm)	TIS (dBm)
Tx_11M / Rx_11M	1	11.97	-81.19	Tx_6M / Rx_54M	1	10.57	-68.47	Tx_54M / Rx_54M	36	11.43	-70.49	Tx_MCS7 / Rx_MCS7	36	10.93	-68.27
	6	11.28	-82.21		6	10.22	-69.45		149	11.67	-69.89		149	10.96	-68.68
	11	11.01	-80.83		11	10.12	-68.87		165	11.83	-71.40		161	11.34	-69.15
Band TRP /TIS(dBm)		9.30	-68.93									Band TRP /TIS(dBm)		9.74	-66.37
802.11AX	Channel No.	TRP (dBm)	TIS (dBm)									802.11AX	Channel No.	TRP (dBm)	TIS (dBm)
Tx_MCS7 / Rx_MCS7	1	9.57	-68.47									Tx_MCS8 / Rx_MCS8	36	9.93	-66.27
	6	9.22	-69.45										149	9.96	-66.68
	11	9.12	-68.87										161	9.34	-66.15

Antenna Impedance: VSWR

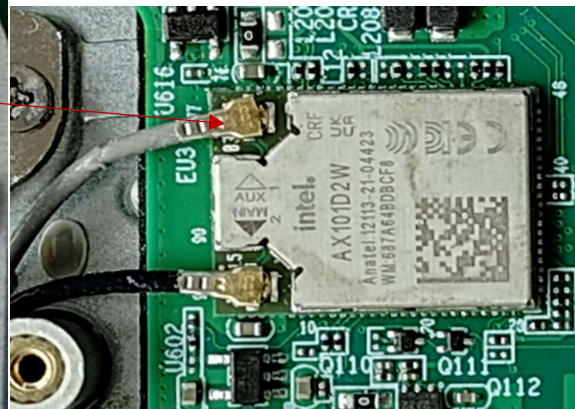


Freq (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Effi (%)	49.56	45.84	50.35	45.78	51.07	53.51	48.31	47.82	48.84	46.1	45.24
Gain (dBi)	0.65	0.38	0.61	0.06	0.34	0.69	0.74	1.04	1.44	1.25	1.28

Freq (MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950
Effi (%)	42.67	44.85	46.73	50.87	49.88	43.83	43.15	42.57	41.79
Gain (dBi)	0.23	0.34	0.21	0.45	1.26	0.5	0.39	0.29	0.05



Antenna installation method:



射频线布线到其它连接线的下方，贴近金属框，避免射频线上扬到主板上二影响WiFi灵敏度

射频线走电池支架下面，防止射频线移动到硬盘周围，影响产品WiFi灵敏度

