

Shenzhen Jiexuntong Wireless Technology Co., Ltd

Antenna specification sheet

Customer Name: Lingdu

Project model: AL601

Our part number:

Antenna specifications: FPC antenna

Date of issuance: June 27, 2024



深圳市杰讯通无线技术有限公司

Confirmation Letter Change History

version	data	Change description	Remarks
R/A	2024-6-27	First edition	

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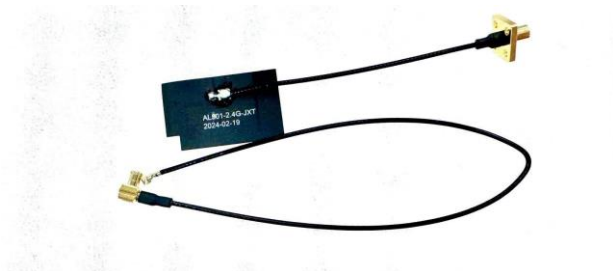
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、 Antenna image

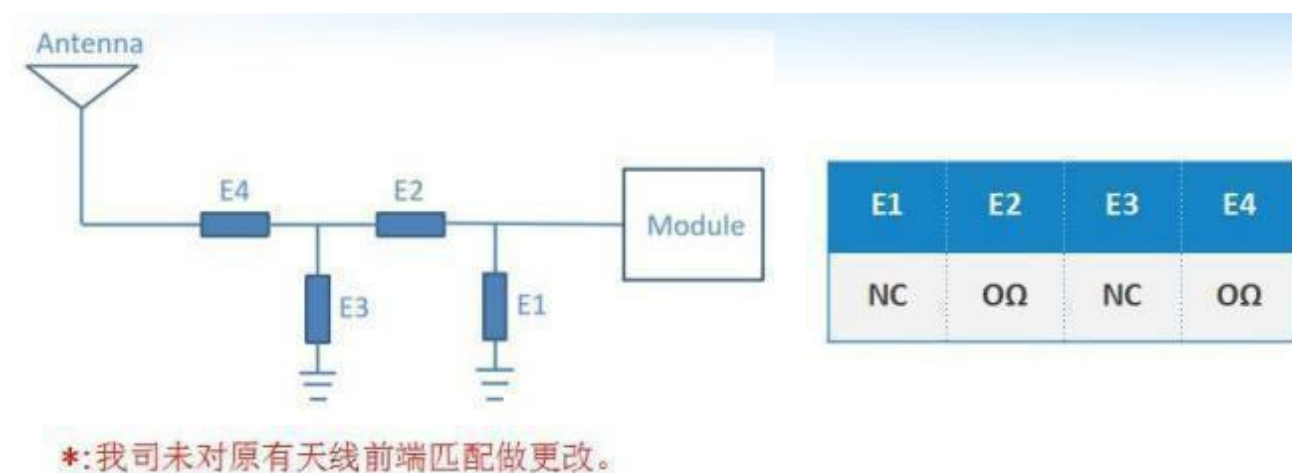


二. testing environment

2.1. Environmental treatment

无

3、 Antenna matching



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三：Products Specification

无源电性能指标 Passive Electrical Specifications

频率范围 Frequency Range (MHz)	2400-2500
输入阻抗 Input Impedence (Ω)	50
电压驻波比 VSWR	≤ 2.0
极化形式 Polarization Type	线极化

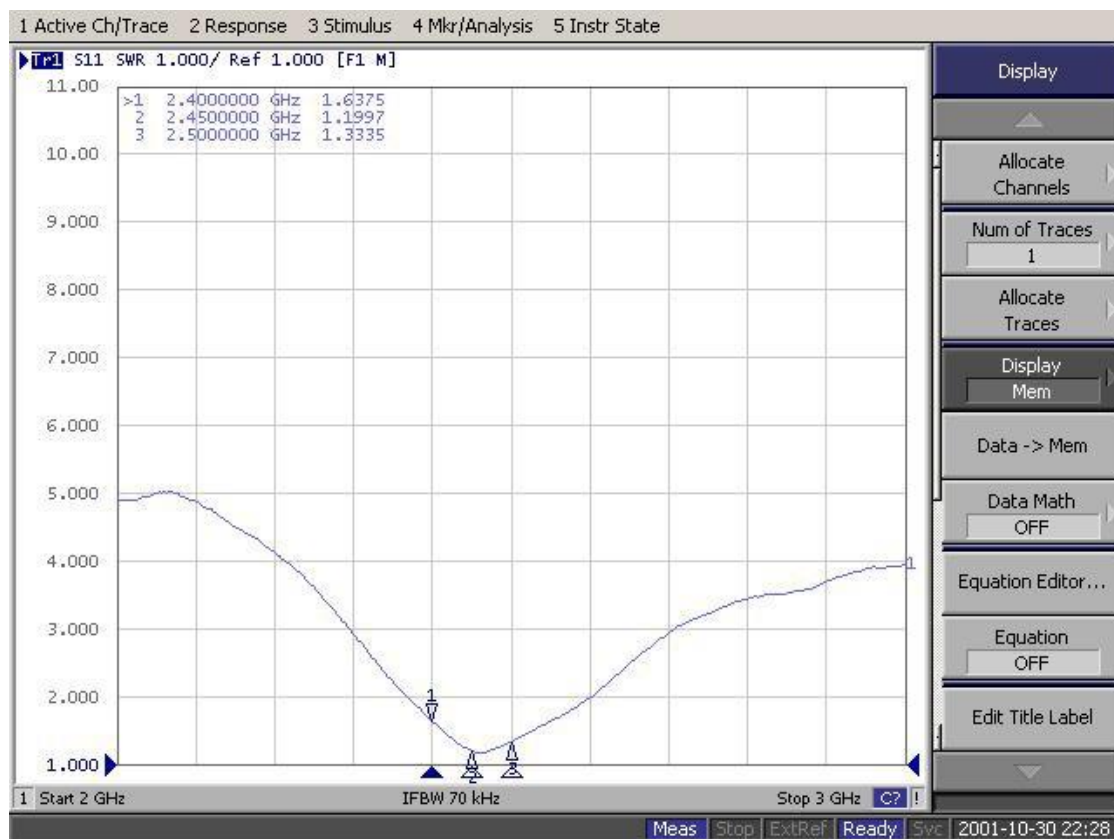
机械指标 Mechanical Specifications

天线形式 (Antenna form)	WIFI
天线尺寸 Antenna Size (mm)	33.9*22.3*0.12
馈线长度 Cable Length (mm)	93mm+230mm
辐射体 Radiator	铜 Cuprum
连接器型号 Connect Type	MCX flange female seat + MCX male elbow
工作温度 Working Temperature ($^{\circ}\text{C}$)	-40 ~ +85
颜色 Radome Color	/



4、Electrical performance report

VSWR



Frequency (MHz)	2400	2450	2500
VSWR	1.63	1.19	1.33

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Passive test data:

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	1.8095853	-3.071203414	49.30371662
2405	1.780421107	-3.093012808	49.05674393
2410	1.762621263	-3.128327386	48.65945736
2415	1.775128772	-3.097245337	49.00895771
2420	1.80919848	-3.075836677	49.25114509
2425	1.764586742	-3.086181961	49.13396407
2430	1.795380376	-3.047786599	49.57027636
2435	1.803717695	-2.996672239	50.15714132
2440	1.726658654	-3.020143519	49.88680013
2445	1.722409826	-3.0056273	50.0538249
2450	1.795507003	-2.991759433	50.21391194
2455	1.907543811	-2.942070919	50.79171861
2460	2.003231279	-2.848191043	51.90161785
2465	2.025719109	-2.805871614	52.40984057
2470	1.996210447	-2.783703089	52.67805011
2475	2.057625864	-2.712367311	53.55046778
2480	2.070574159	-2.678968885	53.96387299
2485	2.023263458	-2.689768148	53.82985193
2490	2.06749258	-2.636430691	54.49503438
2495	2.068787113	-2.605966182	54.87864527
2500	2.035471347	-2.627700035	54.60469636

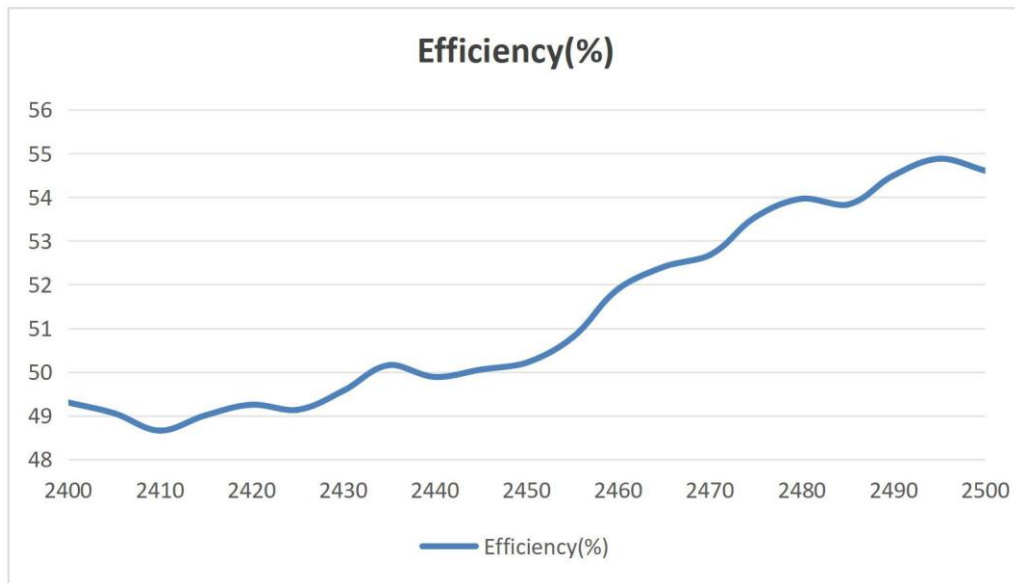
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Active data:

b 模			g 模			gn 模		
信道	TRP	TIS	信道	TRP	TIS	信道	TRP	TIS
1	17.77	-84.12	1	14.72	-71.13	1	14.64	-69.35
6	18.7	-85.46	6	15.21	-72.2	6	15.13	-69.74
11	18.9	-84.29	11	15.34	-71.09	11	15.45	-69.39

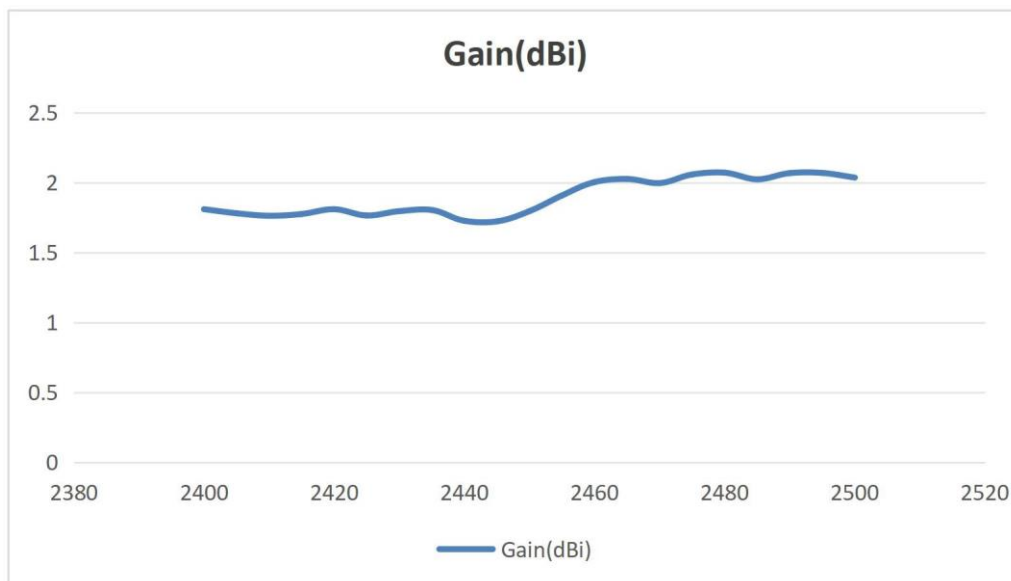
Efficiency line chart:



Frequency (MHz)	2400	2450	2500
Efficiency(%)	49.3	50.21	54.6

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Gain line chart:

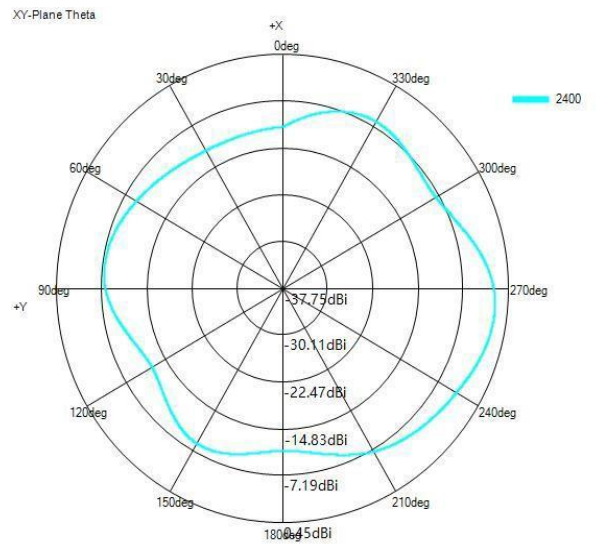
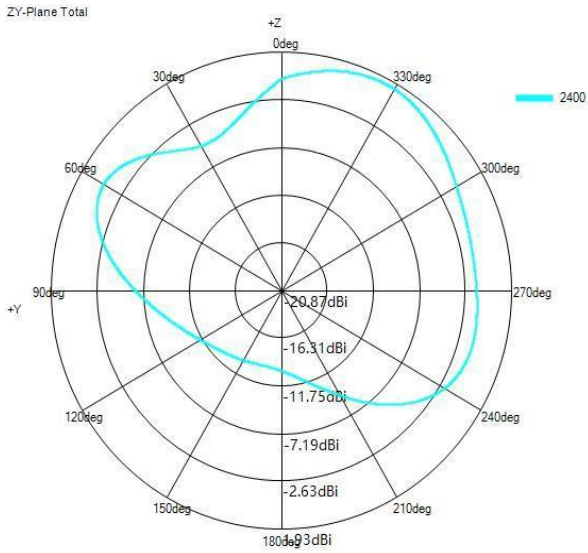
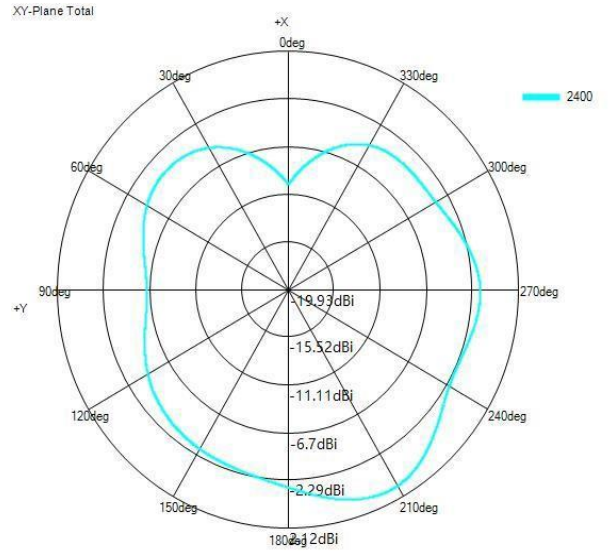
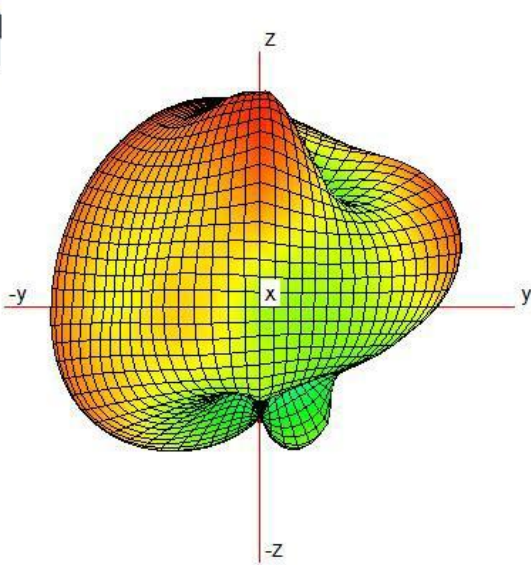


Frequency (MHz)	2400	2450	2500
Gain(dbi)	1.8	1.79	2.03

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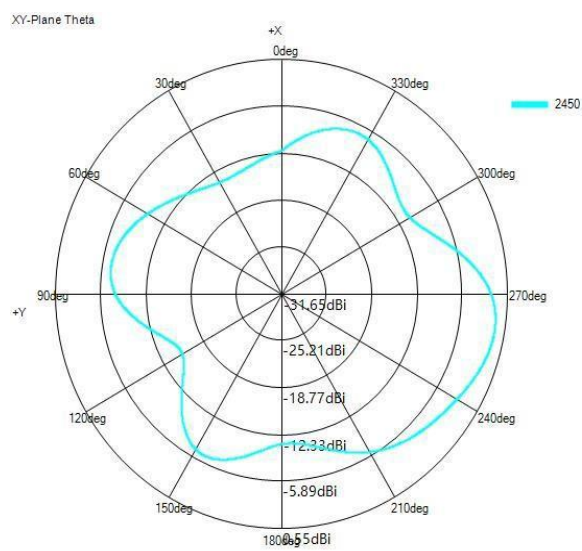
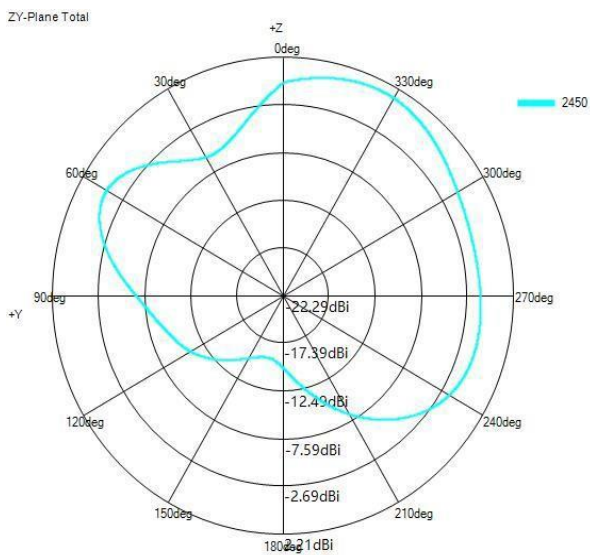
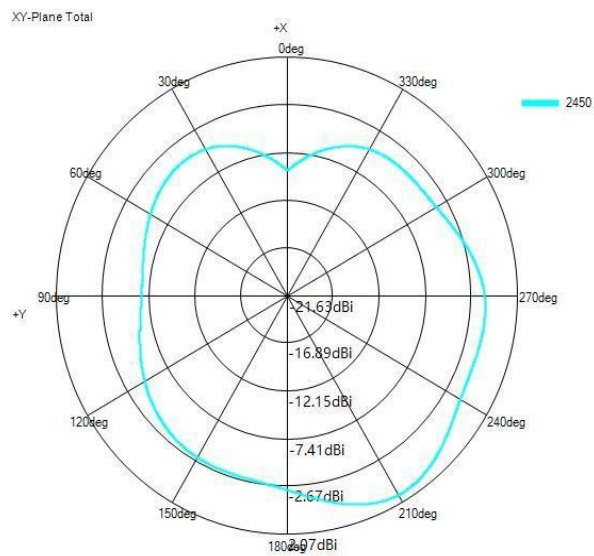
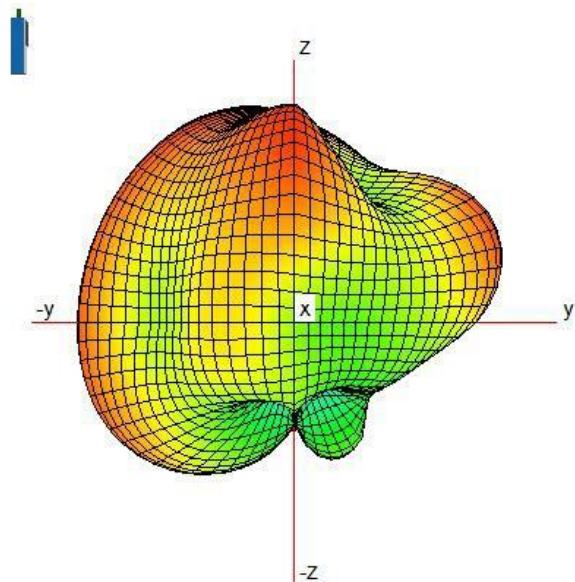
Field diagram:

2400MHZ



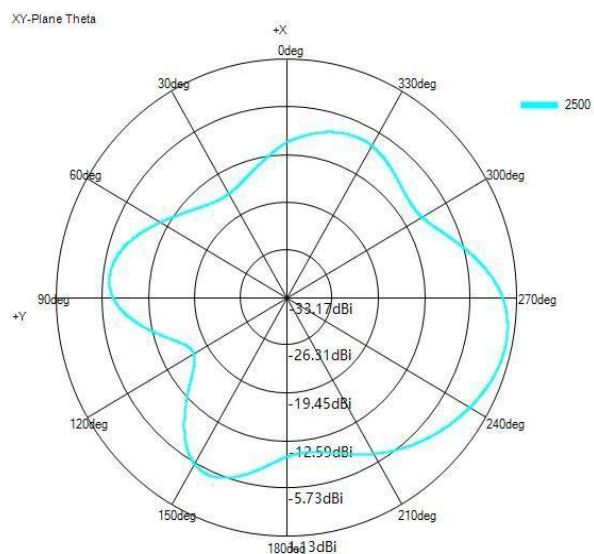
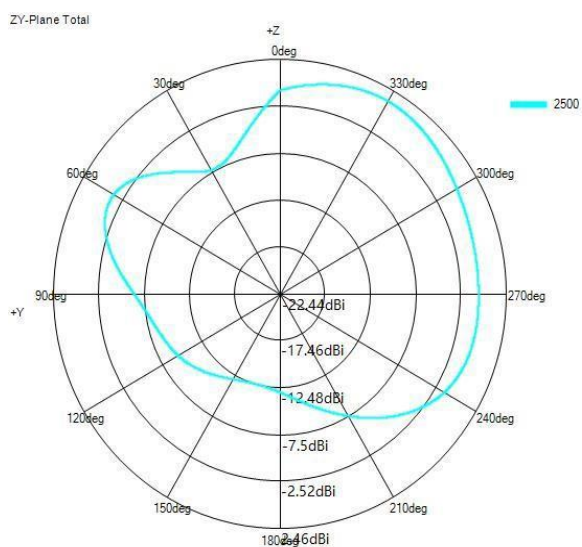
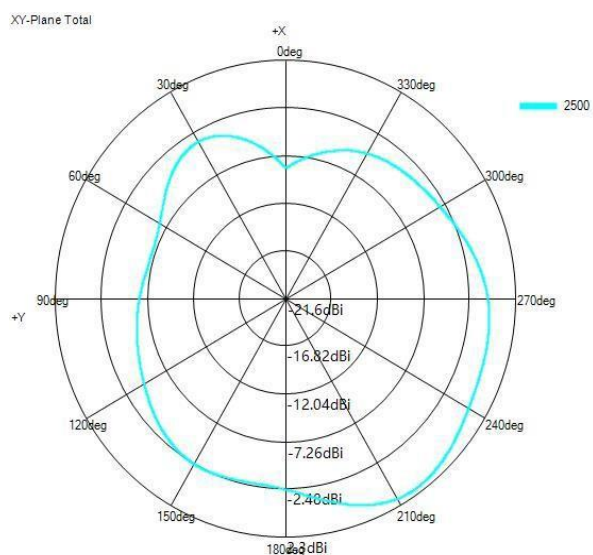
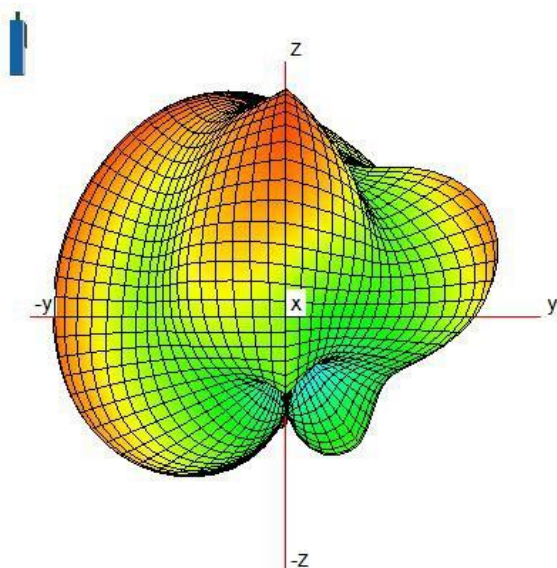
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2450MHZ



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2500MHZ



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五、Reliability test report

5.1. Salt spray test report

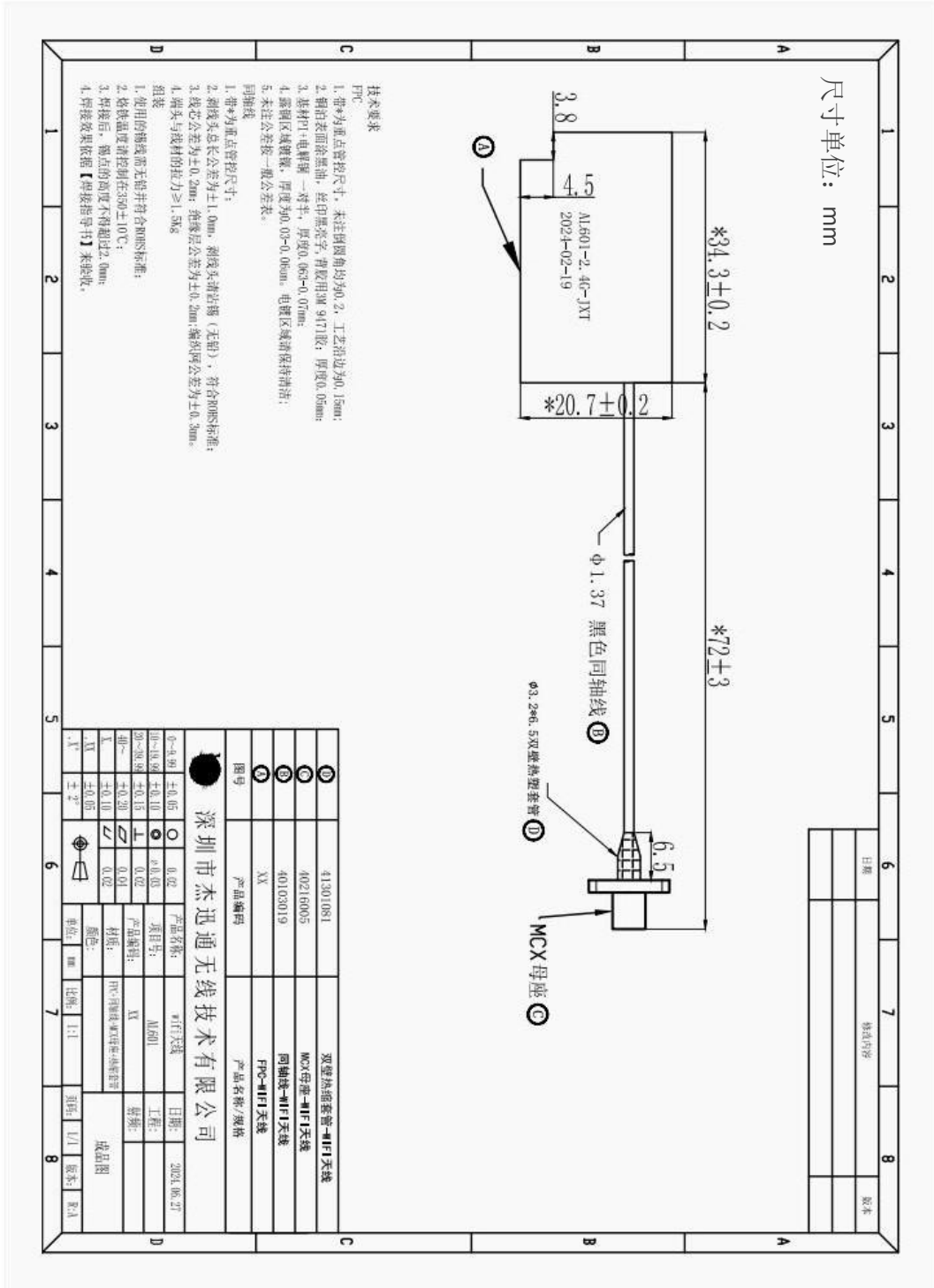
Customers	Ling Du	Part Name	AL601	Completion date	2024- 4- 27
Testing items	Testing requirements			Actual measurement results	evaluate
Neutral salt spray experiment	<p>Test process: conduct neutral salt spray test on the hardware on the antenna. In a closed environment of $35\text{ }^{\circ}\text{C}\pm 2\text{ }^{\circ}\text{C}$, the humidity is more than 85%, and the PH value is within the range of 6.5-7.2. After using $5\% \pm 1\%$ Nacl solution and continuous 24h saline spray, the product surface should be free of rust, discoloration, and coating peeling.</p>			<p>After the experiment, the surface of the product has no rust, no discoloration, and no peeling of the coating.</p>	qualified
Experiment: Wang Ming			Approved by: Wang Ming		



Antenna testing instrument



六. Engineering drawings



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