

Shenzhen Jiexuntong Wireless Technology Co., Ltd

Antenna Recognition Letter

customerName: Lingdu

projectmodel: P610

our part number:20007000014

Antenna specifications: shrapnel antenna

Date of issuance: June 30, 2023

Manufacturer recognition column:

Project Preparation	RF	structure	ratify	data
姜溪号	陈坤坤	吴健雄	刘永明	

customer recognition column:

confirm	to examine	ratify	data

Confirmation Letter Change History

version	data	Change description	Remarks
R/A	2023-6-30	first edition	

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Address:Room409,423,425-426,BuildingA,NO. 30sanweiAviation
Road,sanweicommunity,Hangchengstreet,Bao'anDistrict,shenzhen

Telephone: 0755-23731203



website: <http://www.jxtant.com>

一、Antennaimage

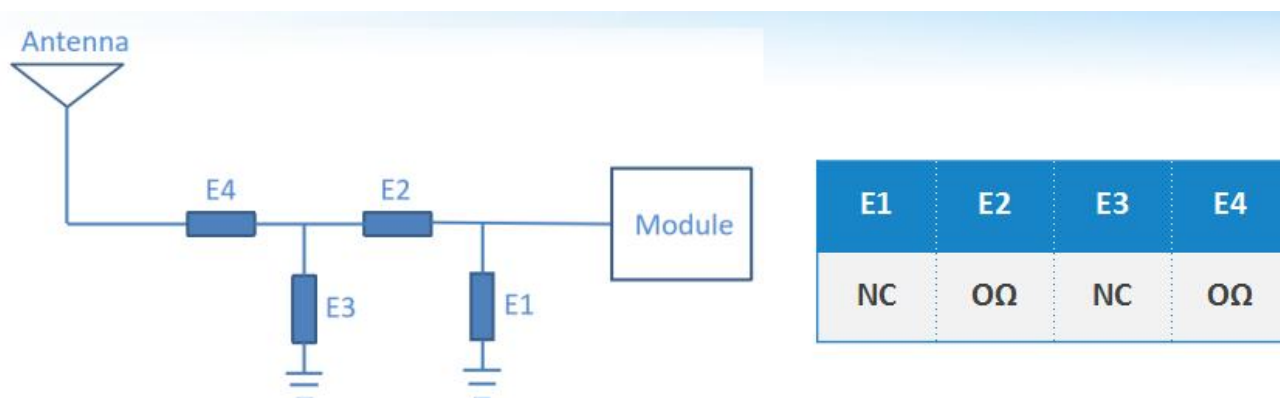


二： . testing environment

2.1. Environmental treatment

nothing

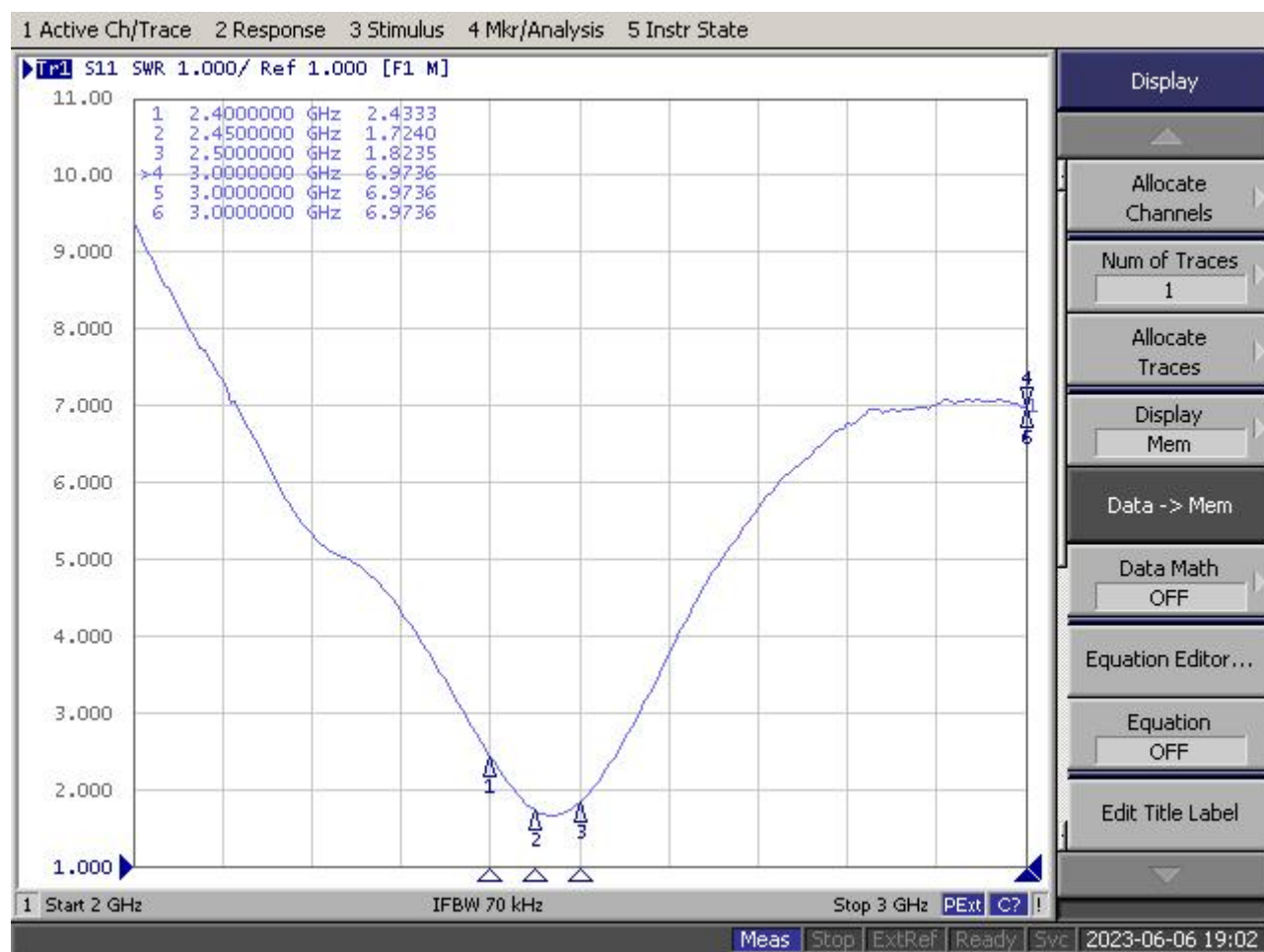
3、 Antenna matching



*****:我司未对原有天线前端匹配做更改。

四、 Electrical performance report

VSWR



Frequency (MHz)	2400	2450	2500
VSWR	2.4	1.7	1.8

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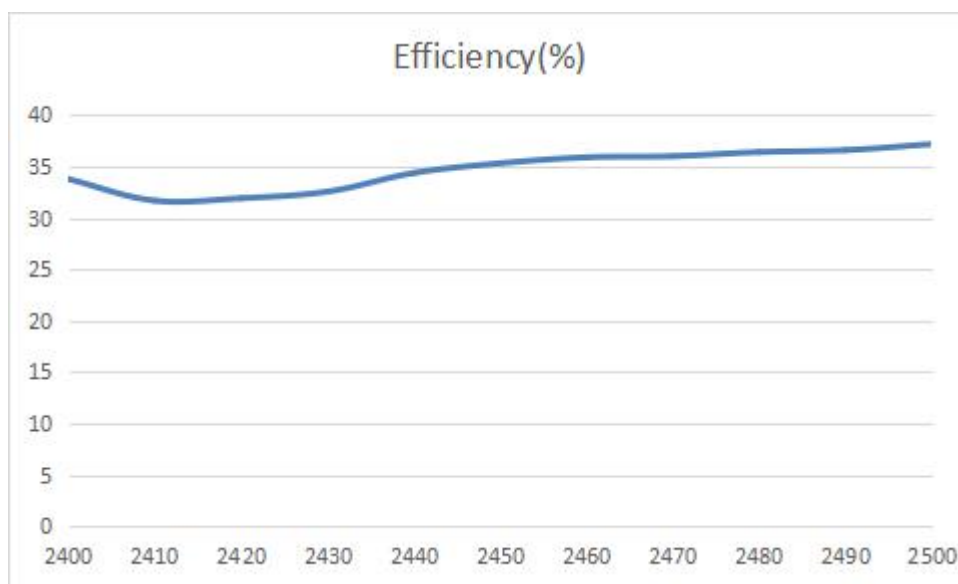
passivetestdata:

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	0.458567199	-4.71240698	33.78775232
2410	0.461252889	-4.990728044	31.69036166
2420	0.55037962	-4.958724531	31.92475308
2430	0.984128577	-4.87163128	32.57143345
2440	1.374551577	-4.635674543	34.39002929
2450	1.743833419	-4.518553636	35.33008127
2460	1.880251934	-4.447845643	35.91000252
2470	2.050066108	-4.434364769	36.02164344
2480	2.143768683	-4.386785716	36.41844753
2490	2.257159606	-4.364014513	36.60990051
2500	2.367914878	-4.295023615	37.19611986

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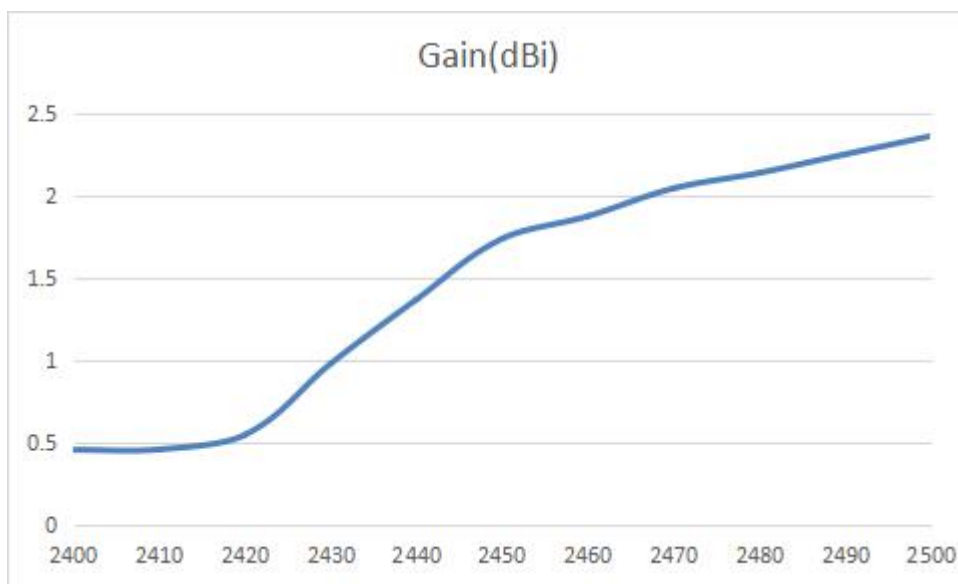


Efficiency line chart:



Frequency (MHz)	2400	2450	2500
Efficiency(%)	33.78	35.33	37.19

Gain line chart:

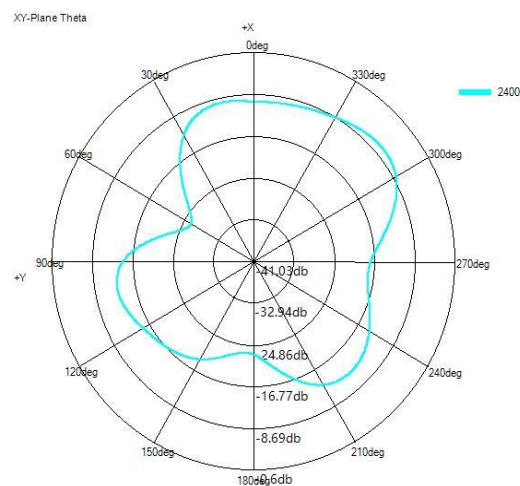
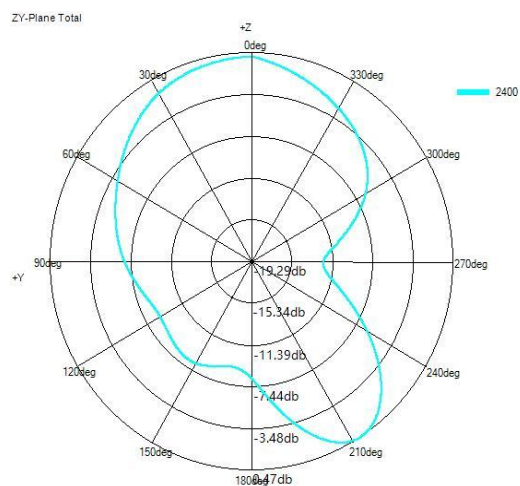
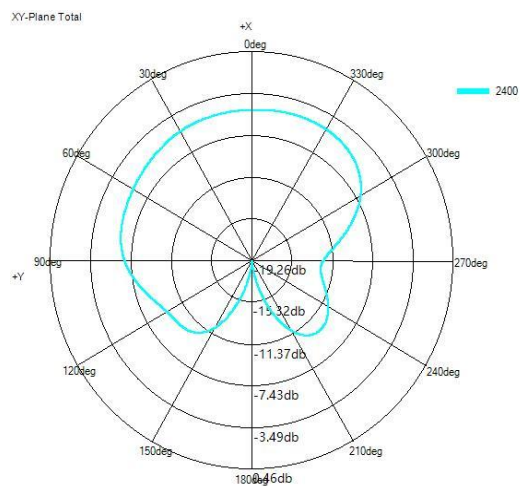
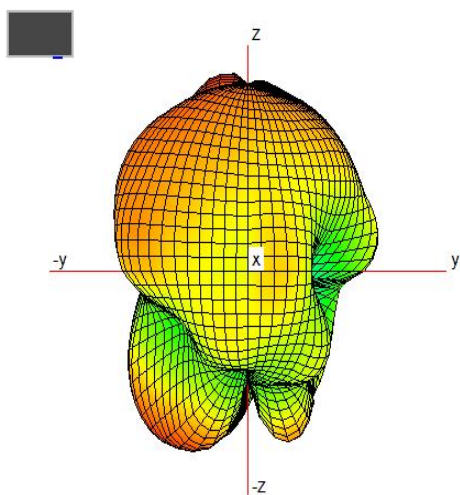


Frequency (MHz)	2400	2450	2500
Gain(dbi)	0.45	1.74	2.36

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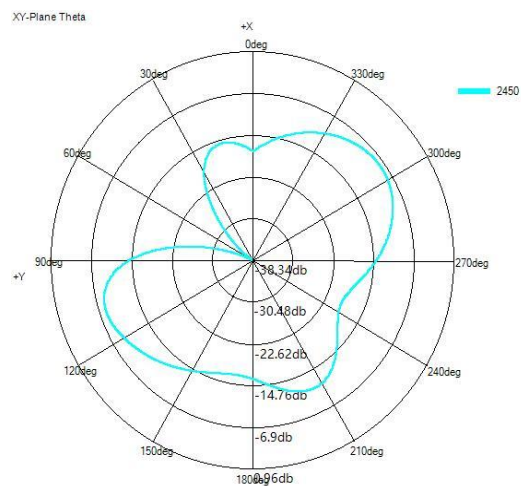
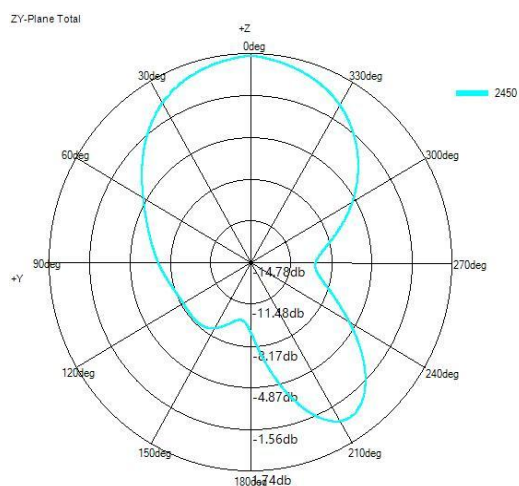
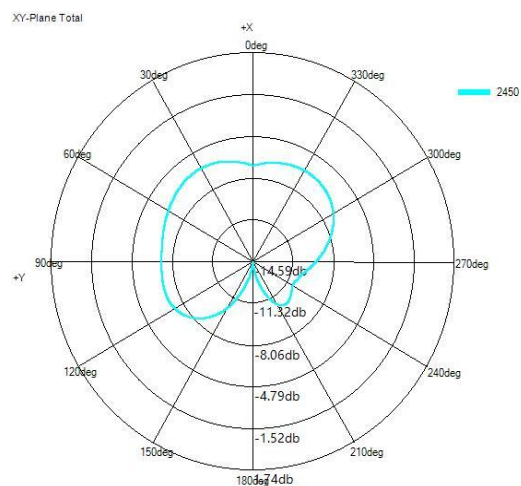
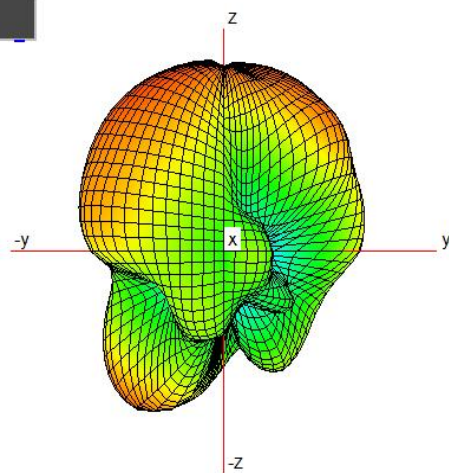
Field diagram :

2400MHZ

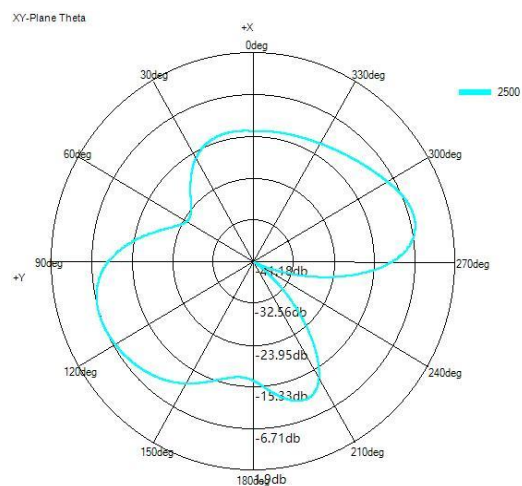
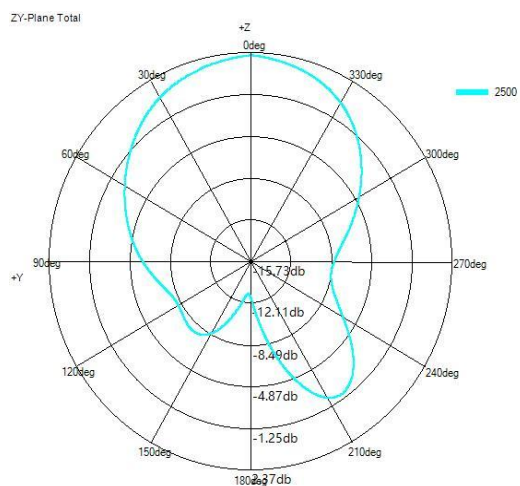
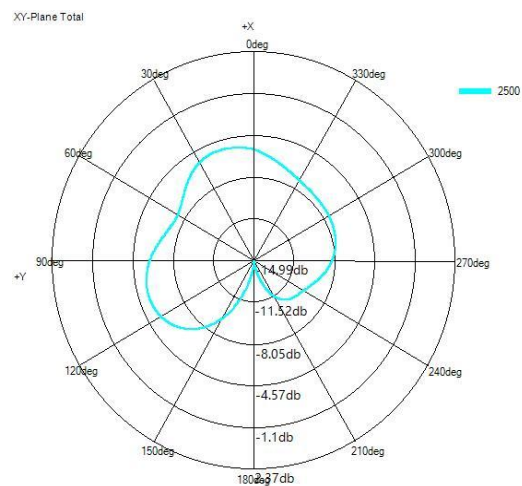
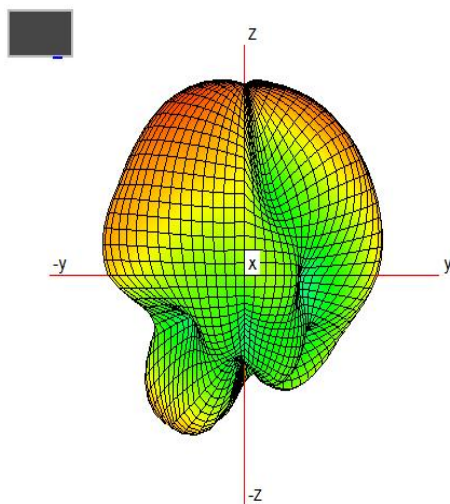


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2450MHZ



2500MHZ



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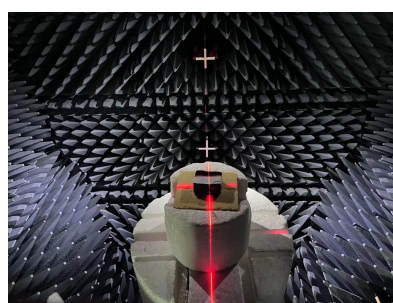
五、Reliabilitytestreport

5.1. saltspraytestreport

Customers	Ling Du	Part Name	P610	Completion date	2023-6-25
Testing items	Testing requirements			Actual measurement results	evaluate
Neutral salt spray experiment	Test process : conduct neutral salt spray test on the hardware on the antenna. In a closed environment of $35^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 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.			After the experiment, the surface of the product has no rust, no discoloration, and no peeling of the coating.	qualified
Experiment: Wang Ming			Approved by: Wang Ming		



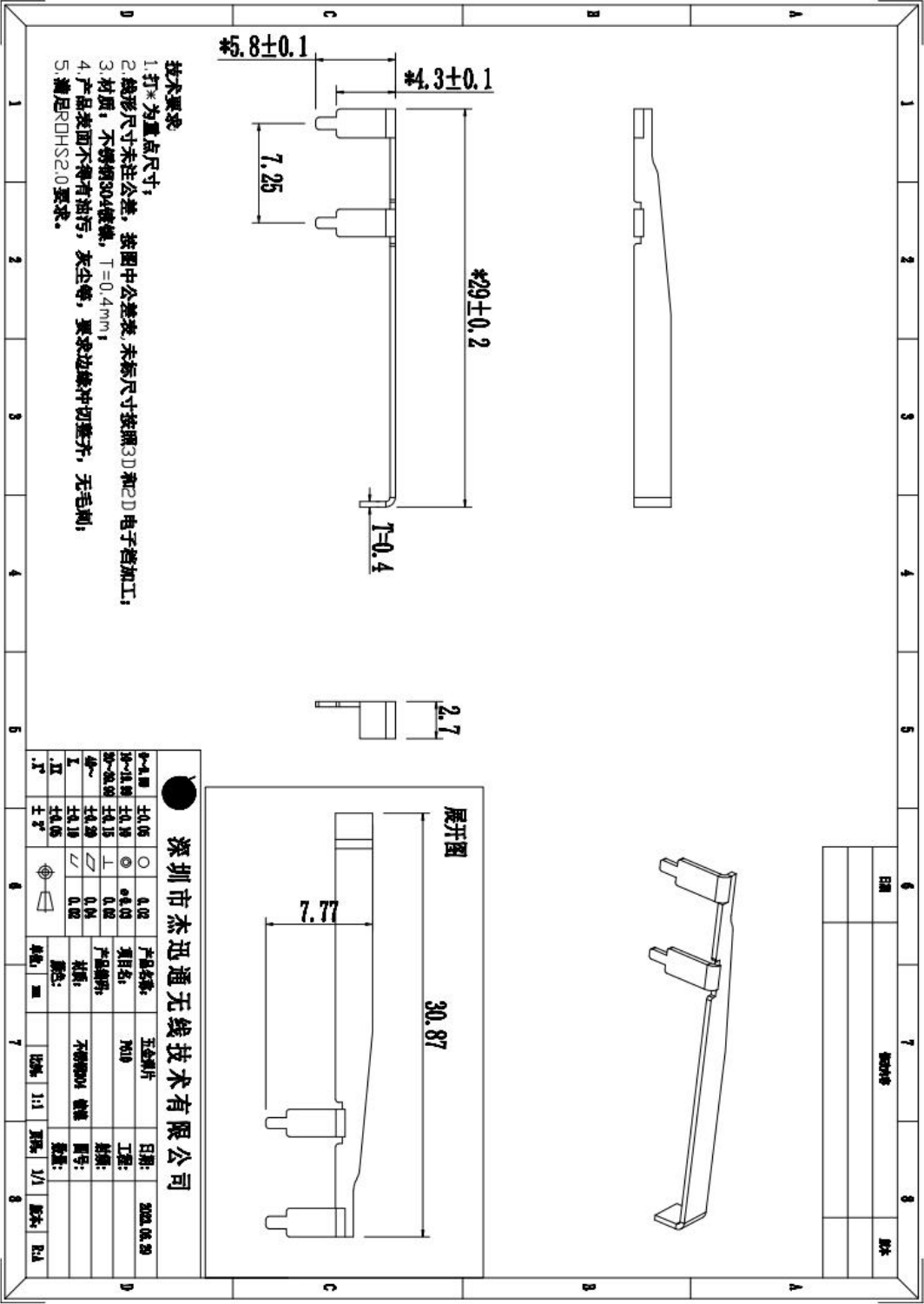
Antenna testing instrument



Darkroom testing environment

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六 Engineering drawings



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