SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT： HaiXin- HS330R

CUSTOMER P.N. ：

PRODUCT NAME. ： WIFI Antenna

MODEL NO. ： 1Y030E

SPECIFICATION ：

VERSION	DATE	REVISION DESCRIPTION
T:A	2025-1-10	newly added

SUPPLIER AUTHORIZED SIGNATURE		
PREPARED	CHECKED	APPROVED
JENNY		

CUSTOMER AUTHORIZED SIGNATURE			
Project		Quality	

Please return to us one copy of "SPECIFICATION FOR APPROVAL"with your approved signature.

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Content

1 DEFINITION

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
TRP	Total Radiated Power
TIS	Total Isotropic Sensitivity
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access

2 Test equipment

Can be increased or decreased according to actual situation

vector network analyzer

Comprehensive test instrument

GTS darkroom

3 Applicable frequency band

Mark the applicable frequency bands with other colors。

System	Frequency band
WIFI(2.4G)	2412MHz～2483MHz
5.8G	5725MHz～5850MHz

4 Basic testing items

4.1 Standing wave ratio diagram

4.2 Smith impedance diagram

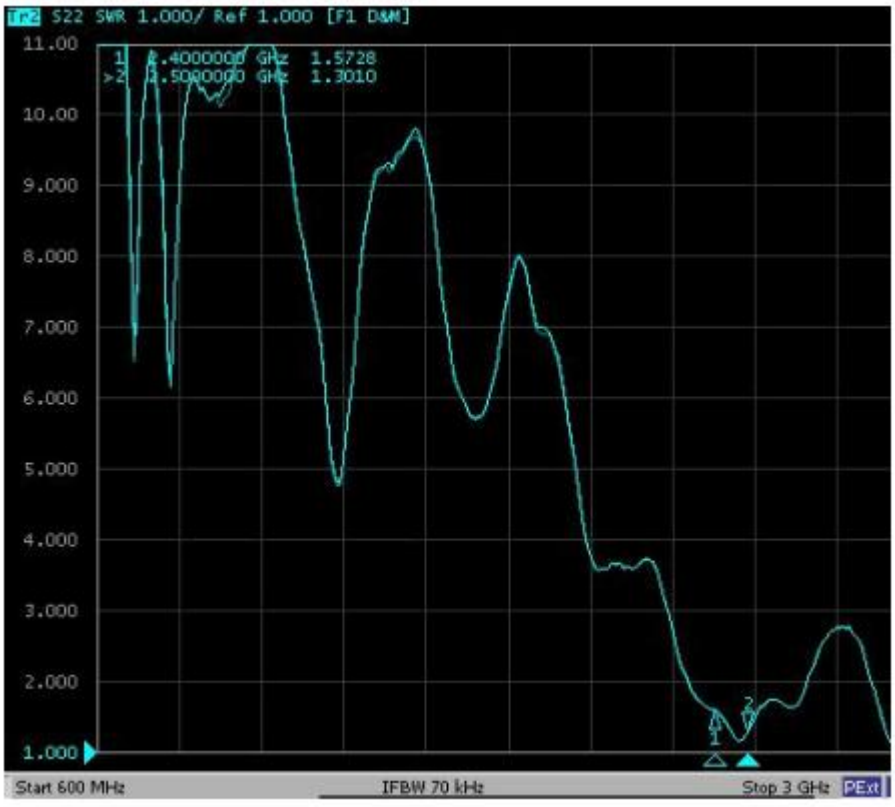
4.3 Radiation pattern

4.4 Gain and efficiency

5 Test indicators and data charts

5.1 standing-wave ratio

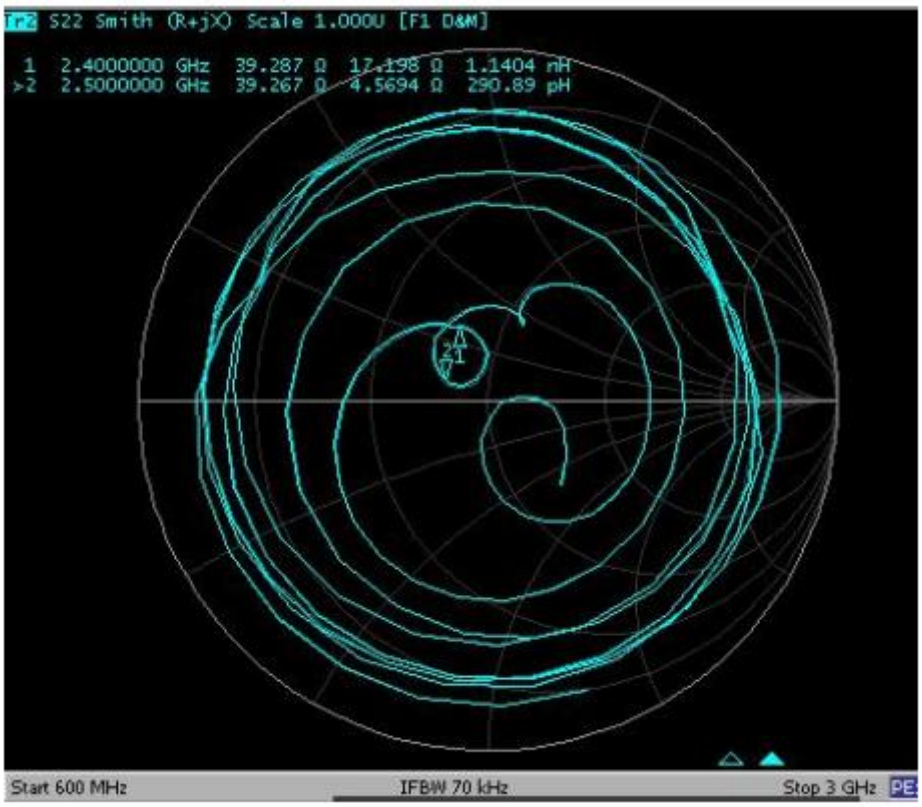
5.1.1 Standing wave ratio diagram



5.1.2 Standing wave ratio data

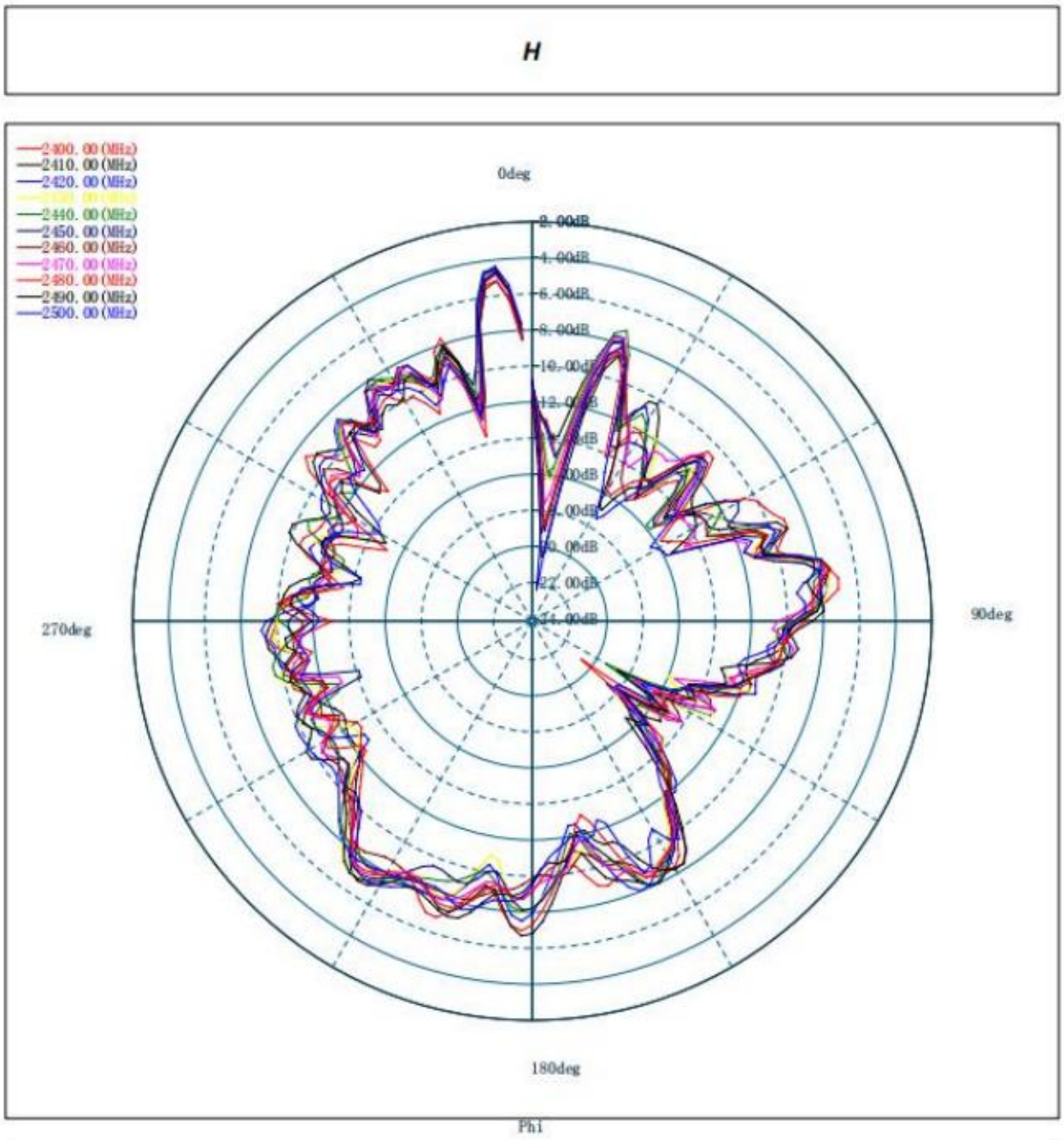
Freq/MHz	2400	2500
VSWR	**1.5**	**1.3**

5.2 Smith impedance circle diagram

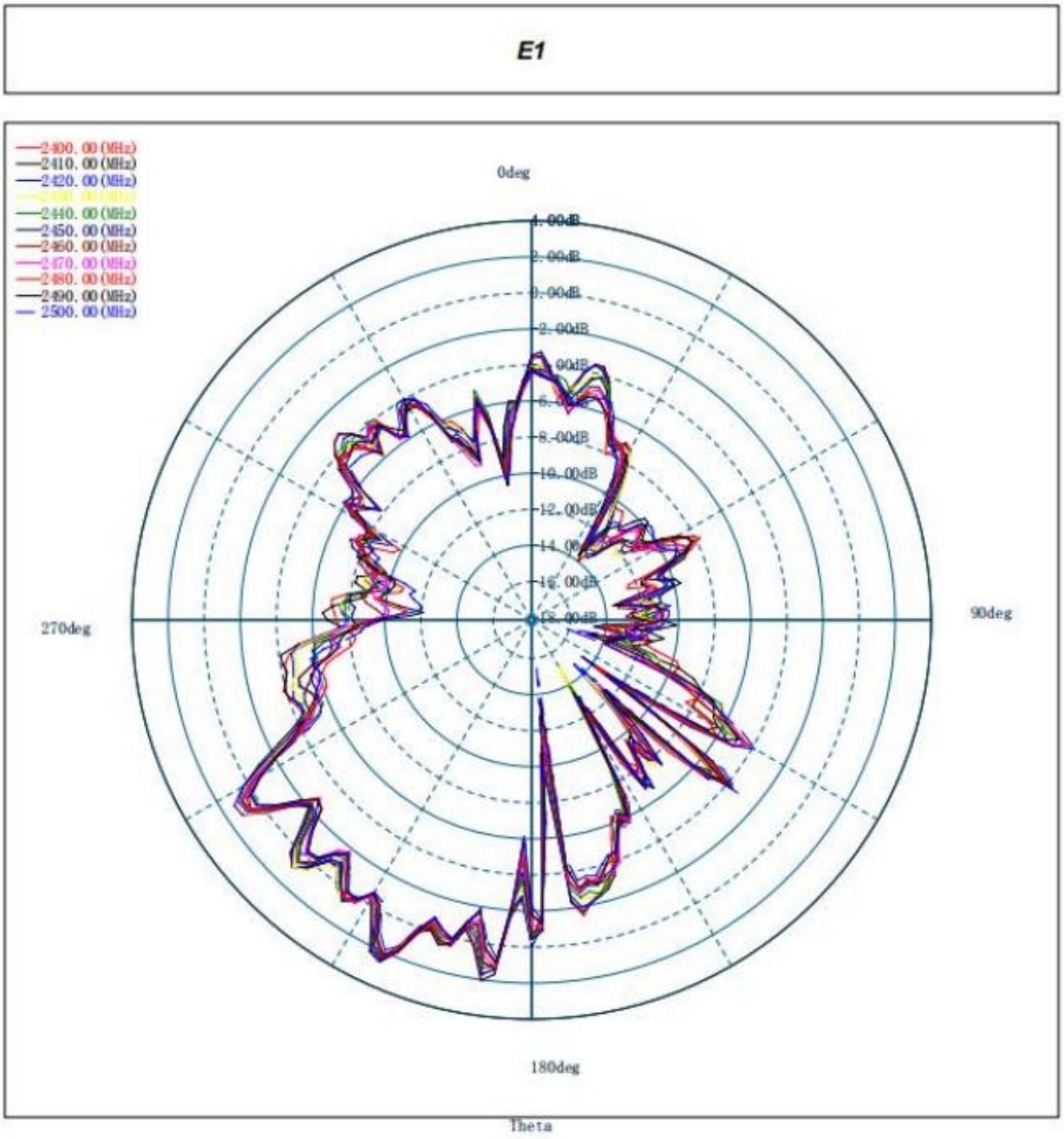


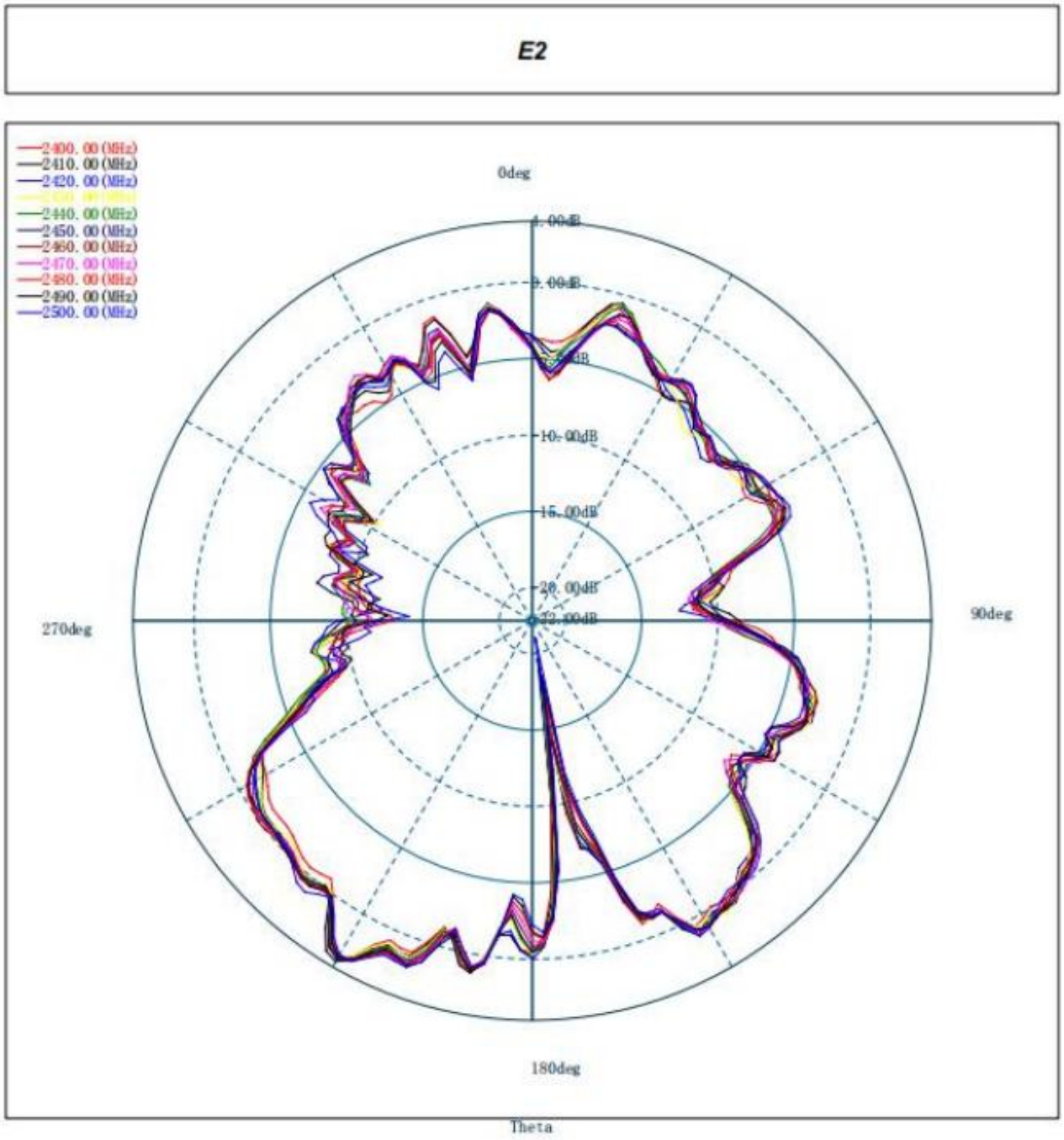
5.3Radiation pattern

5.3.1H-plane



5.3.2E-plane


E1
2400.00 (MHz)
2410.00 (MHz)
2420.00 (MHz)
2440.00 (MHz)
2450.00 (MHz)
2460.00 (MHz)
2470.00 (MHz)
2480.00 (MHz)
2490.00 (MHz)
2500.00 (MHz)
0deg
90deg
180deg
270deg
Theta


E2
2400.00 (MHz)
2410.00 (MHz)
2420.00 (MHz)
2440.00 (MHz)
2450.00 (MHz)
2460.00 (MHz)
2470.00 (MHz)
2480.00 (MHz)
2490.00 (MHz)
2500.00 (MHz)
0deg
90deg
180deg
270deg
10.00dB
15.00dB
20.00dB
Theta

5.4 Gain and efficiency

Freq （MHZ）	Eff(%)	GAIN(dB)
2400	33%	4.22
2410	34%	4.23
2420	34%	3.96
2430	34%	3.74
2440	34%	3.77
2450	34%	3.72
2460	34%	3.92
2470	33%	3.78
2480	33%	3.74
2490	33%	3.62
2500	32%	3.55

11B

		TRP		TIS
WIFI	1	13.32		-77.1
	6	13.57		-79.54
	11	13.40		-79.69

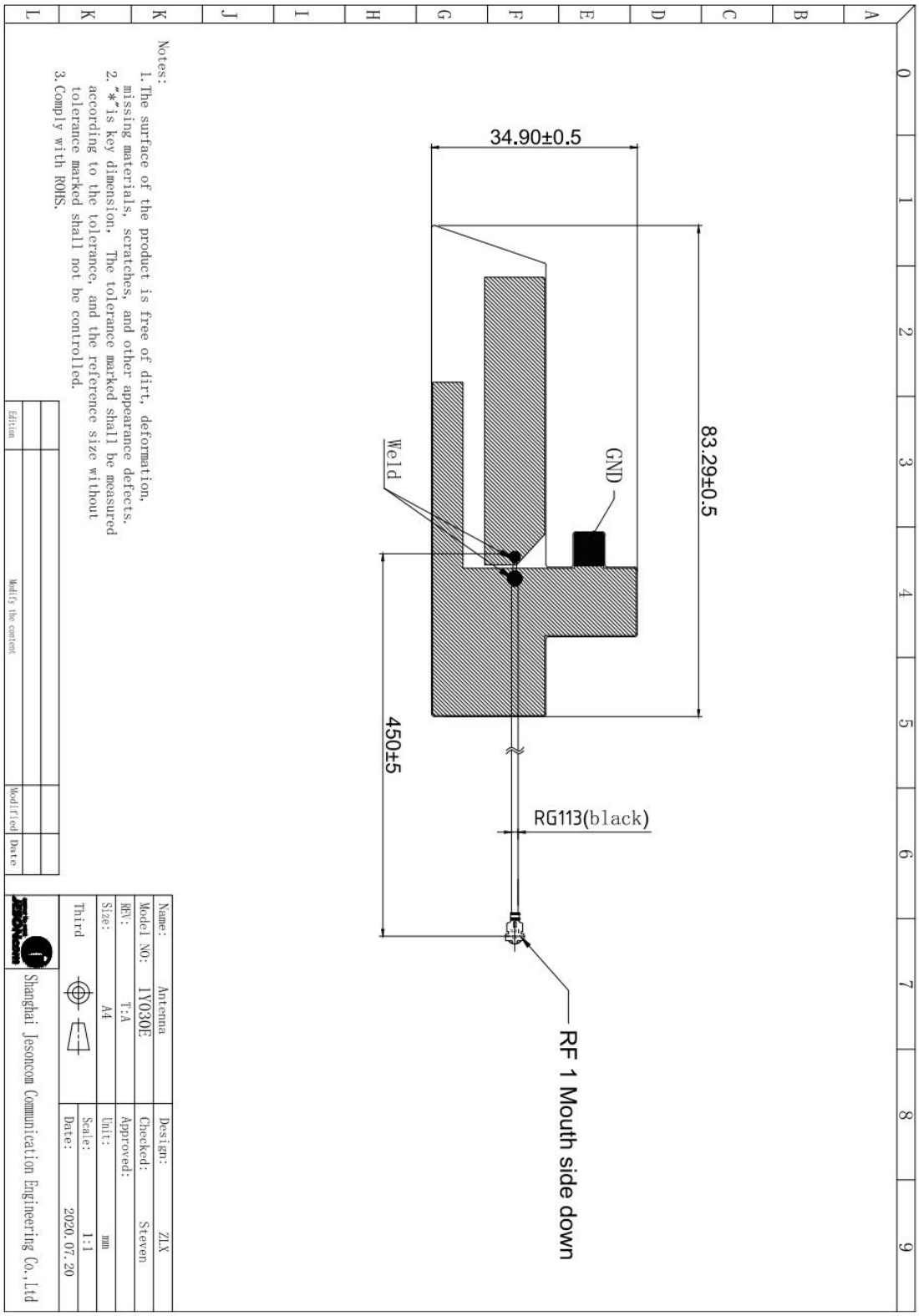
6 Environmental treatment suggestions

Environment does not need treatment

7 Impedance matching requirements

The matching circuit has not been changed

8 Antenna Outline Drawing



9 Antenna Installation Guide

9.1 Antenna installation and feeder routing instructions

10 Other