SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT： LANDI C20 LITE

CUSTOMER P.N. ：

PRODUCT NAME. ： WIFI Antenna

MODEL NO. ： 5U062A

VERSION	DATE	REVISION DESCRIPTION
T:A	2022/12/28	newly added
T:C	2023/04/26	Update drawings
T:D	2023/07/06	Update drawings

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Directory

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。

	Frequency
WIFI(2.4G)	2412MHz～2483MHz
WIFI(5G)	5150MHz～5850MHz

4 Basic testing items

4.1 Standing wave ratio diagram

4.2 Smith impedance diagram

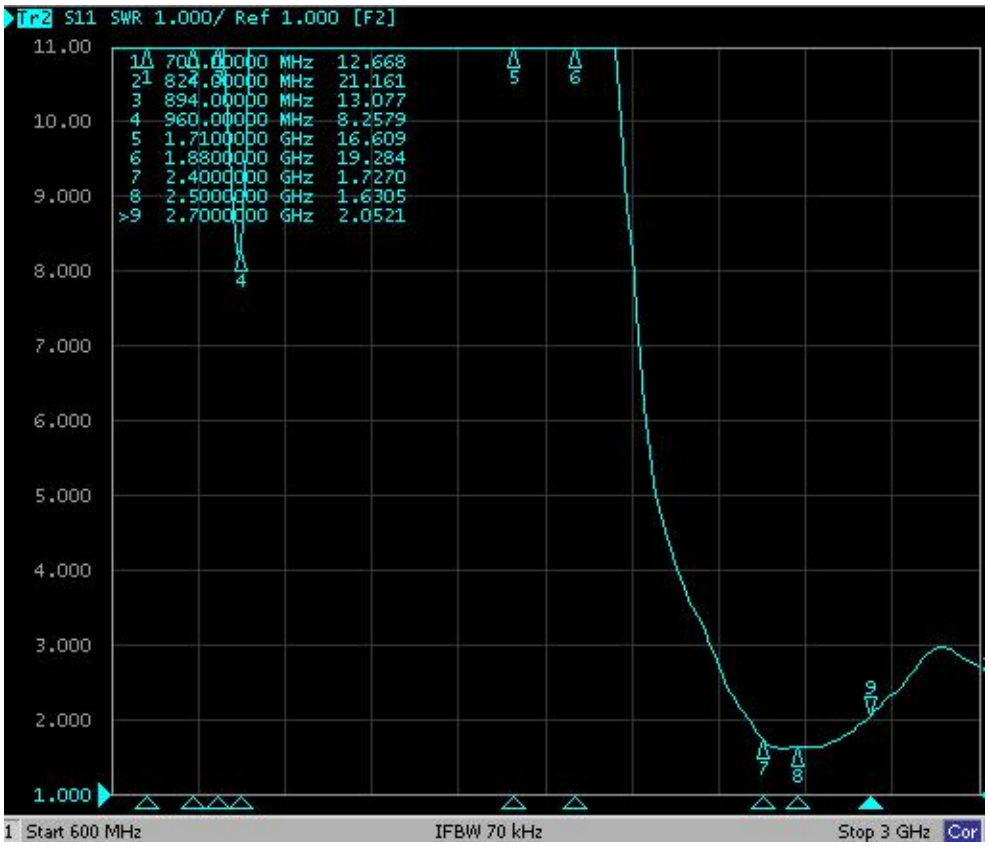
4.3 Radiation pattern

4.4 Gain and efficiency

5 Test indicators and data charts

5.1 standing-wave ratio

5.1.1 Standing wave ratio diagram



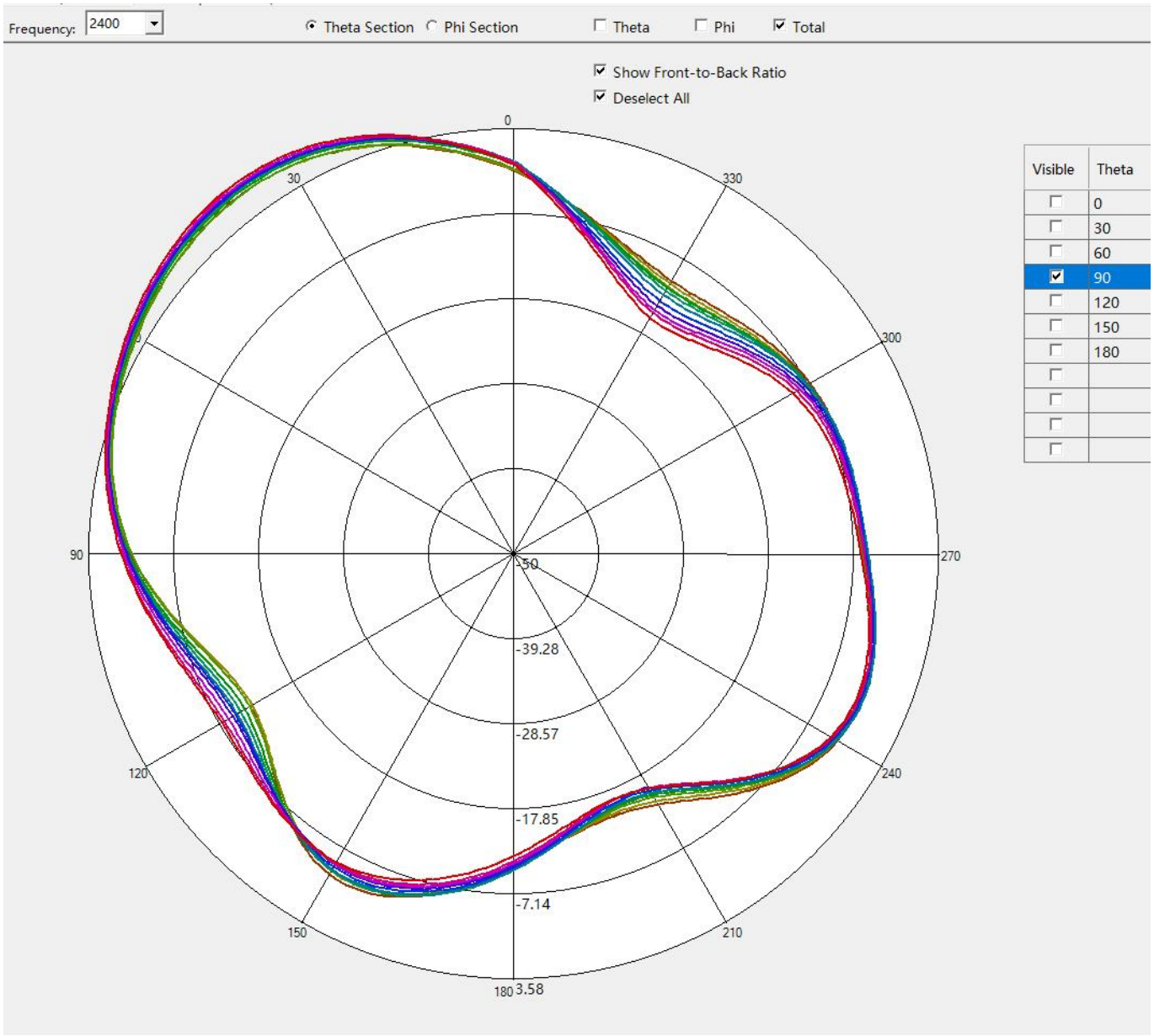
5.1.2 Standing wave ratio data

Freq/MHz	2400	2500
VSWR	1.7	1.6

5.2 Smith impedance circle diagram

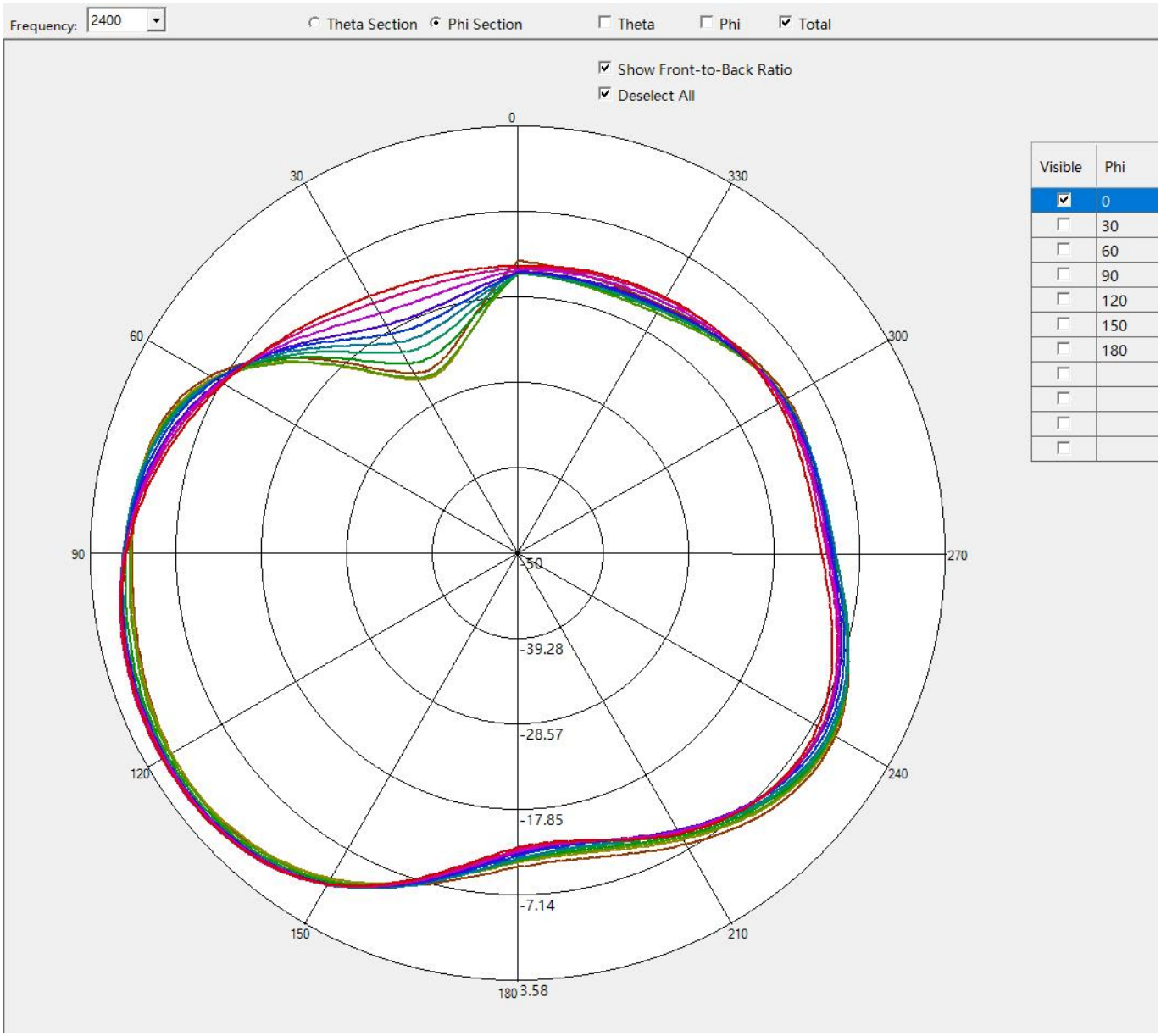
5.3 Radiation pattern

5.3.1H-plane

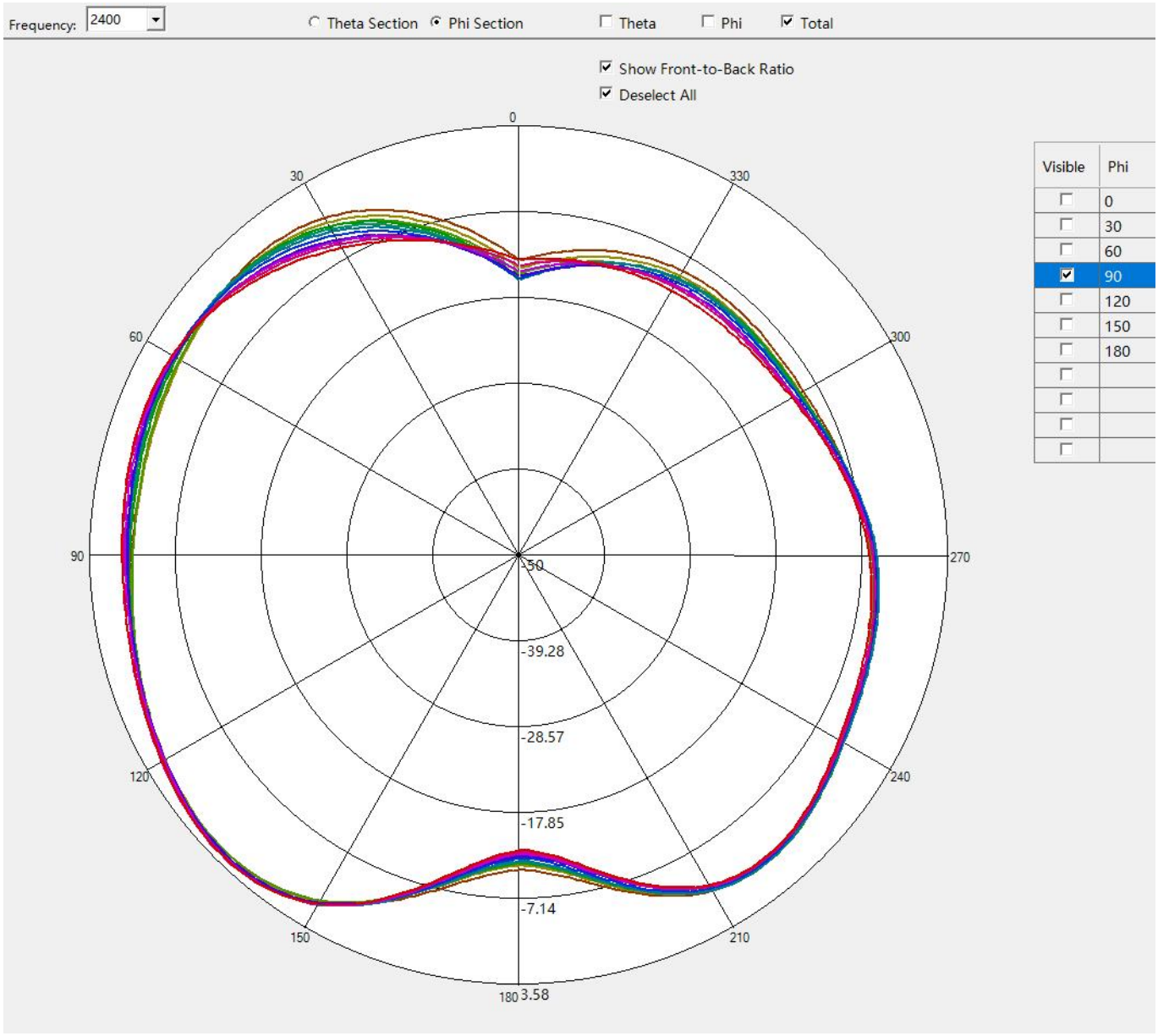

Frequency: 2400
Theta Section
Phi Section
Theta
Phi
Total
Show Front-to-Back Ratio
Deselect All
Visible
Theta
0
30
60
90
120
150
180
0
30
330
300
270
240
210
180
150
120
90
-39.28
-28.57
-17.85
-7.14
3.58

5.3.2 E-plane

E1



E2


Frequency: 2400
Theta Section
Phi Section
Theta
Phi
Total
Show Front-to-Back Ratio
Deselect All
Visible
Phi
0
30
60
90
120
150
180
0
30
330
60
300
90
270
120
240
150
210
180
-50
-39.28
-28.57
-17.85
-7.14
3.58

5.4 Gain and efficiency&TRP/TIS

Freq（MHZ）	Eff(%)	GAIN(DBi)
2400	73.82	5.47
2420	70.61	5.84
2440	75.96	6.14
2450	77.46	6.37
2460	74.86	6.31
2470	73.42	6.45
2480	75.28	6.38
2490	78.33	6.58
2500	76.63	6.60

Single screen

	CH	TRP		TIS	
11B	1	16.82		-82.46	
	6	17.14		-82.14	
	11	16.95		-82.47	
11G	1	15.35		-68.19	
	6	15.29		-68.22	
	11	15.26		-68.28	
11GN	1	13.67		-63.17	
	6	13.51		-63.18	
	11	13.43		-63.09	

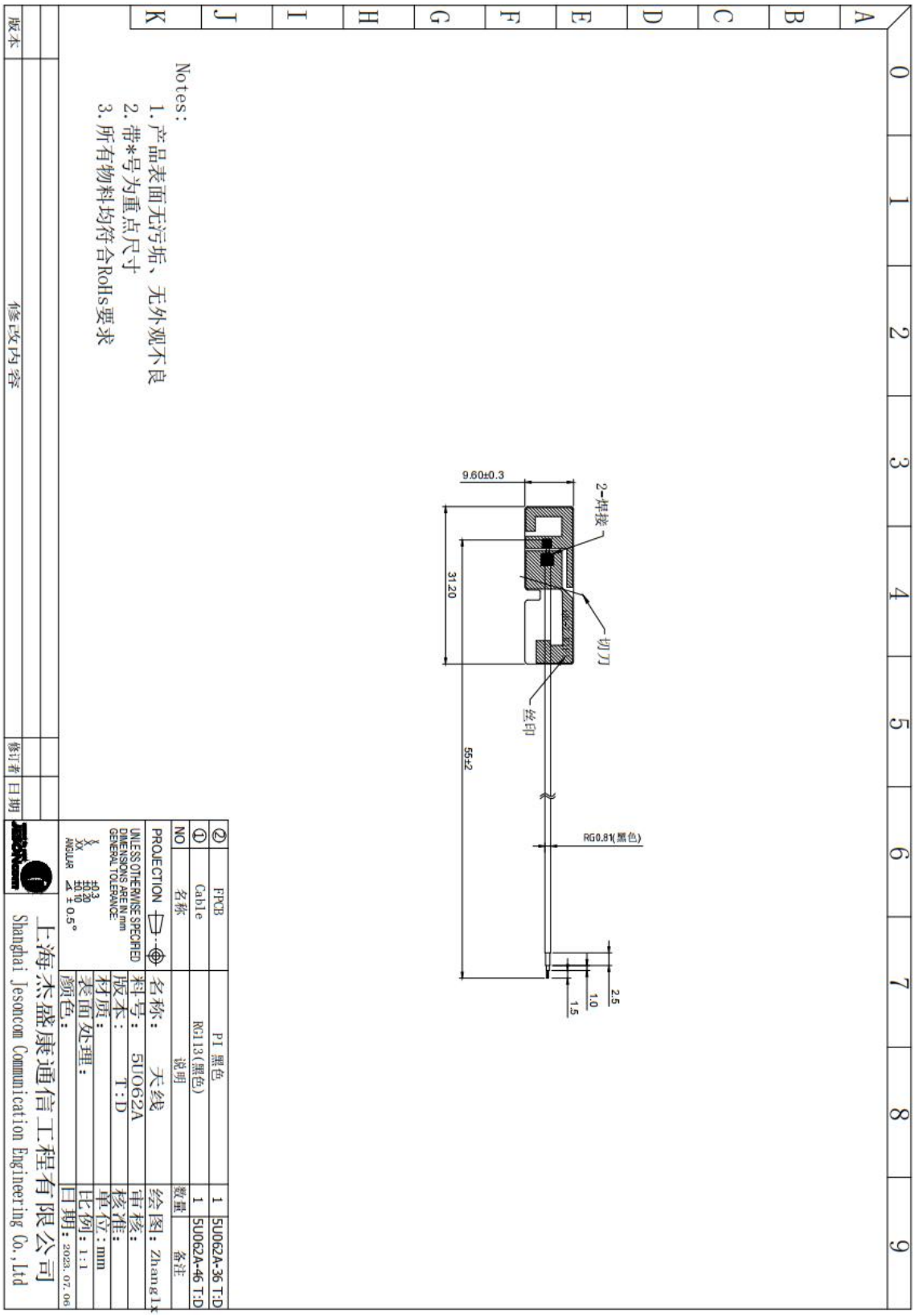
Dual screen

	CH	TRP		TIS	
11B	1	15.79		-81.89	
	6	16.01		-81.08	
	11	15.63		-82.51	
11G	1	15.07		-68.05	
	6	15.18		-68.09	
	11	14.86		-68.58	
11GN	1	14.37		-64.45	
	6	14.29		-64.34	
	11	13.86		-64.17	

6 Environmental treatment suggestions

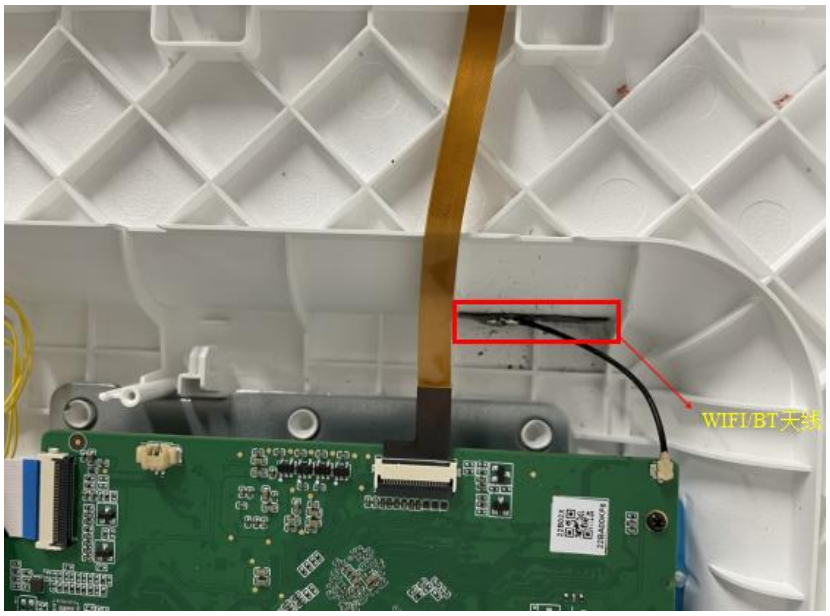
7 Impedance matching requirements

8 Antenna Outline Drawing


Notes:
1. 产品表面无污垢、无外观不良
2. 带*号为重点尺寸
3. 所有物料均符合RoHs要求
9.60±0.3
2-焊接
31.20
切刀
丝印
55±2
RG0.81(黑色)
2.5
1.0
1.5
FPCB
PI 黑色
1
5U062A-36 T:D
Cable
RG113(黑色)
1
5U062A-46 T:D
NO
名称
说明
数量
备注
PROJECTION
名称：天线
绘图：Zhang1x
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN mm
GENERAL TOLERANCE
料号：5U062A
审核：
版本：T:D
核准：
材质：
单位：mm
表面处理：
比例：1:1
颜色：
日期：2023.07.06
上海杰盛康通信工程有限公司
Shanghai Jesoncom Communication Engineering Co.,Ltd
版本
修改内容
修订者
日期

9 Antenna Installation Guide

9.1 Antenna installation and feeder routing instructions



10 Other