

SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT : LANDI IL001

CUSTOMER P.N./ : _____

PRODUCT NAME./ : WIFI Antenna

MODEL NO./ : 5U081F

SPECIFICATION/ : _____

VERSION	DATE	REVISION DESCRIPTION
T:A	2025-04-08	newly added
T:B	2025-05-22	Update drawings

SUPPLIER AUTHORIZED SIGNATURE		
PREPARED	CHECKED	APPROVED
XUHAIJUN		

CUSTOMER AUTHORIZED SIGNATURE			
Project		Quality	

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content

Directory	2
1 Noun explanation	4
2 Test equipment	4
3 Working frequency band	4
4 Test project	4
4.1 VSWR plot	5
4.2 Simth plot	5
4.3 Radiation pattern	5
4.4 Gain and efficiency	5
5 Antenna parameter	5
5.1 VSWR	5
5.1.1 VSWR plot	5
5.1.2 VSWR data	6
5.2 Simth plot	6
5.3 Radiation pattern	7
5.3.1 H-plane	7
5.3.2 E-plane	8
5.4 Gain & Efficiency	10
5.5 TRP&TIS	10
6 Environmental treatment suggestions	11
7 Impedance matching	11
8 Antenna plan	12



8.1	Antenna dimensional drawing	12
8.2	Coaxial cable length drawing	12
8.3	Connector drawing	12
9	Antenna installation guide	13
9.1	Antenna installation instructions	13
9.2	Coaxial routing	13
10	Other	13

1 Noun explanation

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 Working frequency band

The yellow Identification is the using band

System	up	down
GSM850	824MHz~849MHz	869MHz~894MHz
GSM900	890MHz~915MHz	935MHz~960MHz
DCS1800	1710MHz~1785MHz	1805MHz~1880MHz
PCS1900	1850MHz~1910MHz	1930MHz~1990MHz
CDMA800	825MHz~835MHz	870MHz~880 MHz
CDMA2000	824MHz ~849MHz	869MHz ~894MHz
WCDMA2100	1920MHz~1980MHz	2110MHz~2170MHz
WIFI (2.4G/5G)	2400MHz~5850MHz	2400MHz~5850MHz
LTE	700MHz ~2690MHz	700MHz ~2690MHz

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4 Test project

4.1 VSWR plot

4.2 Simth plot

4.3 Radiation pattern

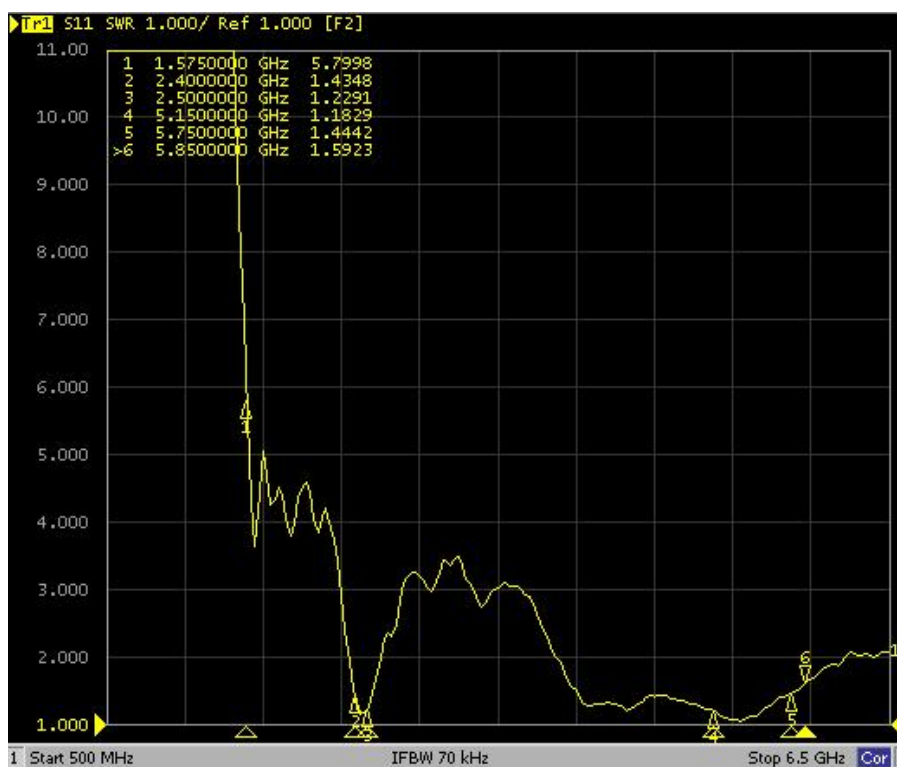
4.4 Gain & Efficiency

4.5 TRP&TIS

5 Antenna parameter

5.1 VSWR(LTE Antenna)

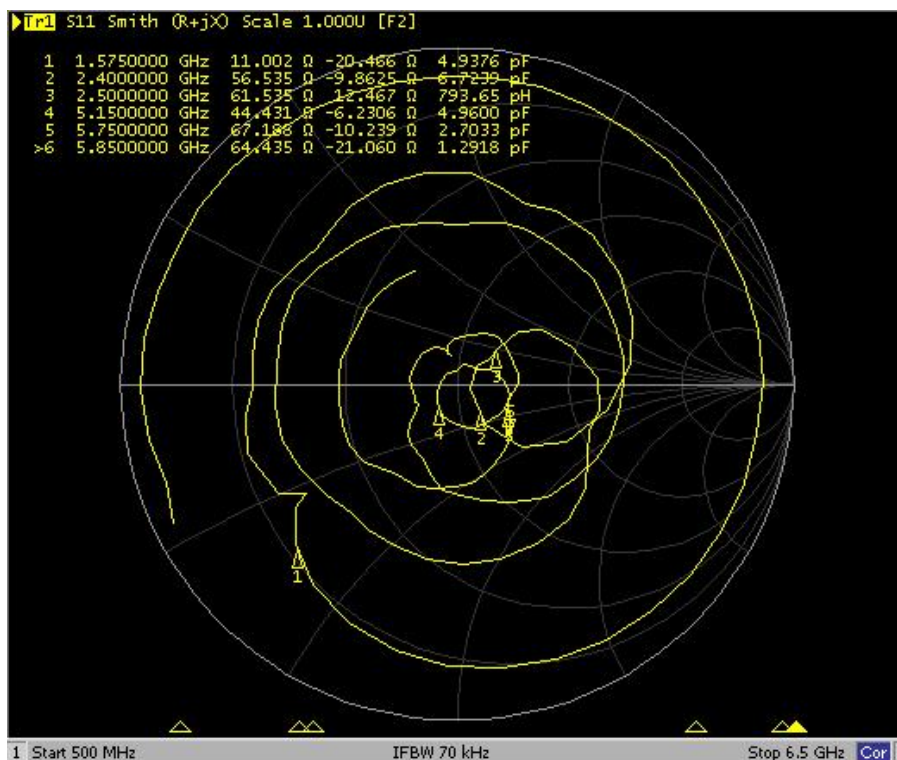
5.1.1 VSWR plot



5.1.2 VSWR data

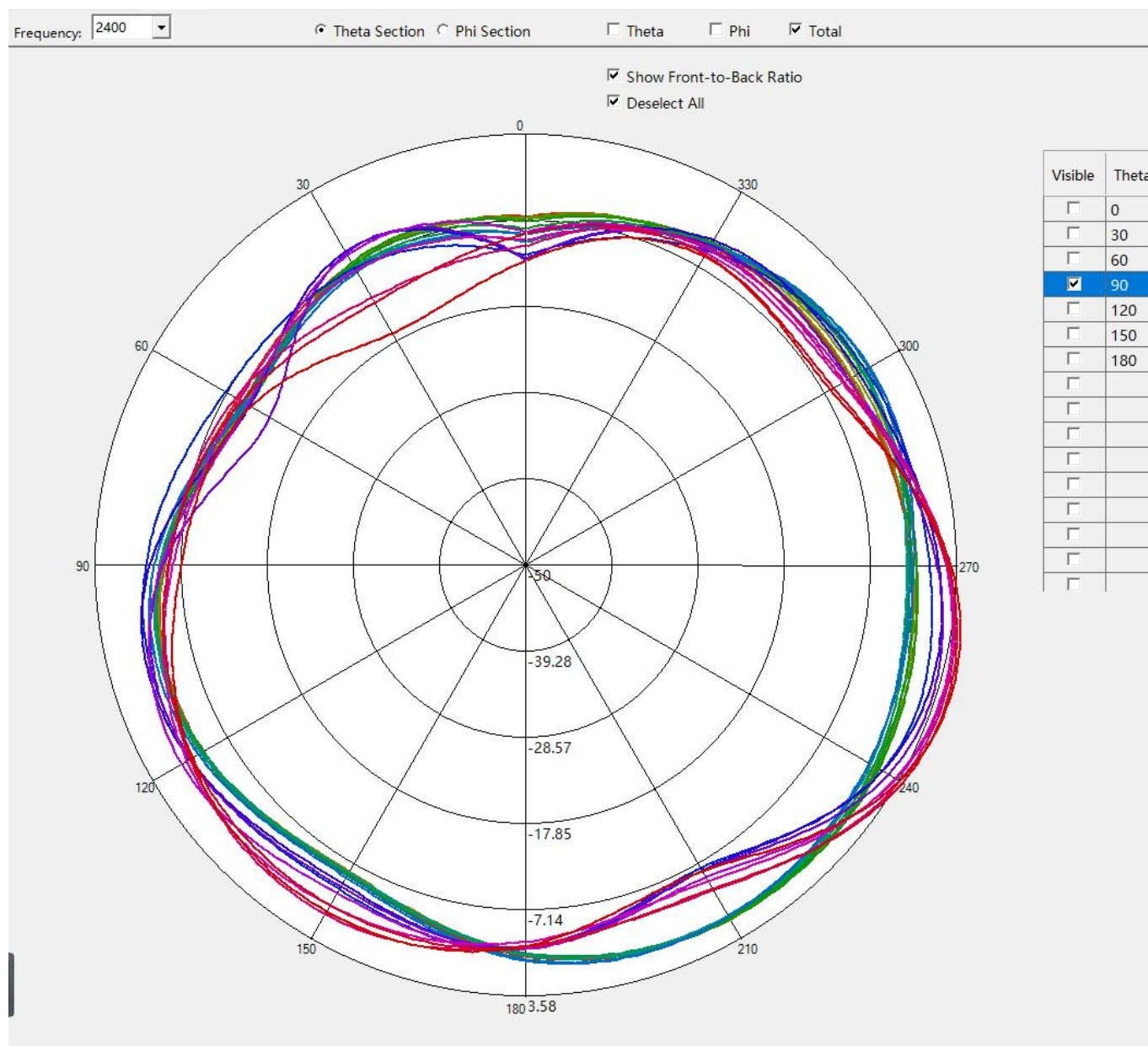
Freq/MHz	2400	2500	5150	5750	5850
VSWR	1.4	1.2	1.1	1.4	1.5

5.2 Smith impedance circle diagram

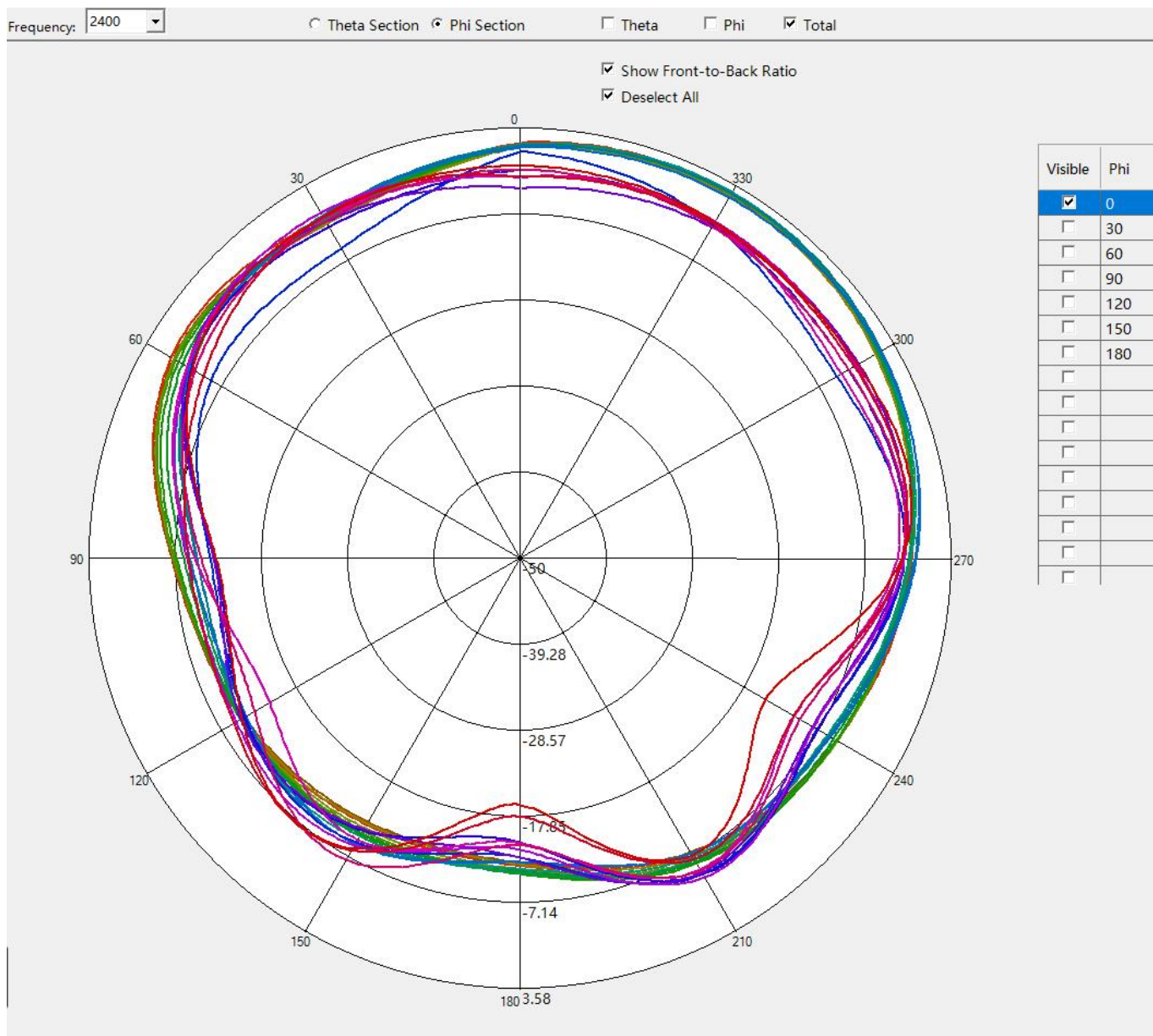


5.3 Radiation pattern

5.3.1 H-plane



E1



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5.4 Gain & Efficiency

Freq (MHZ)	Eff (%)	GAIN (DB i)		Freq (MHZ)	Eff (%)	GAIN (DB i)
2400	59.88	2.96		5150	47.76	1.82
2410	55.56	2.83		5250	49.65	3.06
2420	53.32	2.80		5350	46.11	3.05
2430	54.95	3.11		5450	46.54	3.63
2440	54.83	3.27		5550	43.79	2.48
2450	54.01	3.30		5650	43.63	1.78
2460	51.59	3.24		5750	41.53	1.50
2470	49.28	3.04		5850	42.65	2.32
2480	50.83	3.24				
2490	52.22	3.36				
2500	50.85	3.25				

5.5 TRP&TIS

	CH	TRP	TIS
11B	1	15.15	-78.13
	6	16.34	-81.95
	11	15.96	-79.39
11A	36	13.80	-72.79
	64	13.46	-72.38
	165	12.20	-71.80

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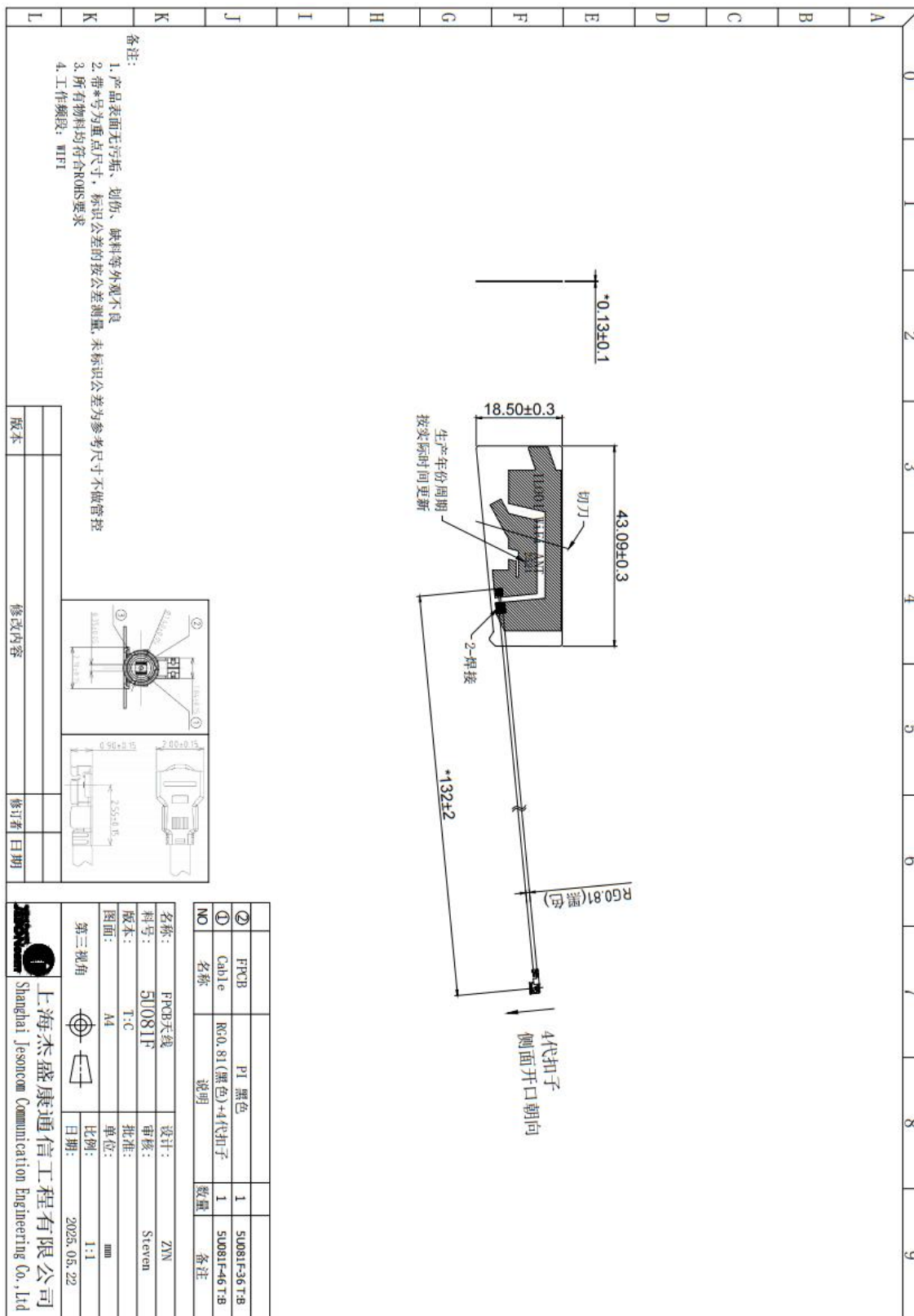
6 Environmental treatment suggestions



7 Impedance matching

8 Antenna plan

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9 Antenna installation guide

9.1 Antenna installation instructions



10 Other