

SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT: **X SOLAX**

CUSTOMER P.N: **311601000600**

PRODUCT NAME: **WIFI ANT**

MODEL NO: **15K003A**

SUPPLIER AUTHORIZED SIGNATURE		
PREPARED	CHECKED	APPROVED
Jenny	Steven	Alex

CUSTOMER AUTHORIZED SIGNATURE			
PM	Jenny	QE	sun

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

ADD: No.358 Liuyuan RD., Baoshan Urban Industrial District.,Shanghai,PR.China.

TEL: +86-21-66276925(26/29/35) - 615

Content

content	1
1 Noun explanation	4
2 Test equipment	4
3 Working frequency band	4
4 Test project	5
4.1 VSWR plot	5
4.2 Simth plot	5
4.3 Radiation pattern	5
4.4 Gain & 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	8-9
5.4 UGain & Efficiency	10
6 Environmental treatment suggestions	10
7 Impedance matching	10
8 Antenna plan	11
8.1 Antenna dimensional drawing	11
8.2 Coaxial cable length drawing	11



8.3_Connector drawing.....	11
----------------------------	----

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

network analyzer
Agilent8960
SATIMO64 chamber

3 Working frequency band

The yellow Identification is the using band

Band	
(2. 4G)	2400MHz~2500MHz
5. 8G	5150MHz~5850MHz

4 Test project

4.1 VSWR plot

4.2 Simth plot

4.3 Radiation pattern

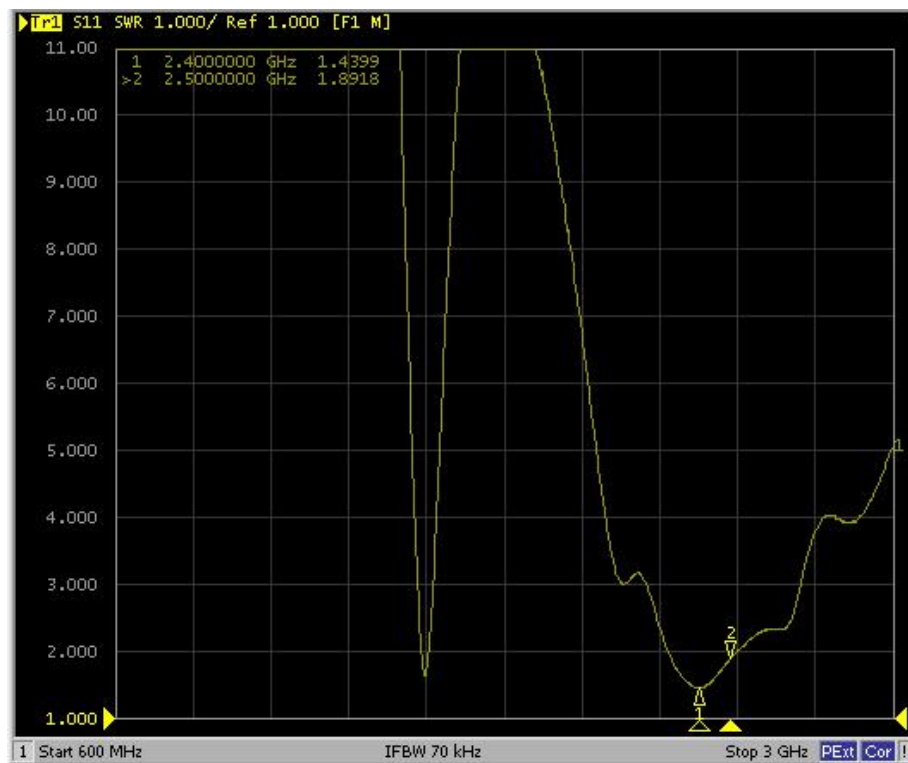
4.4 Gain & Efficiency

4.5 TRP&TIS

5 Antenna parameter

5.1 VSWR

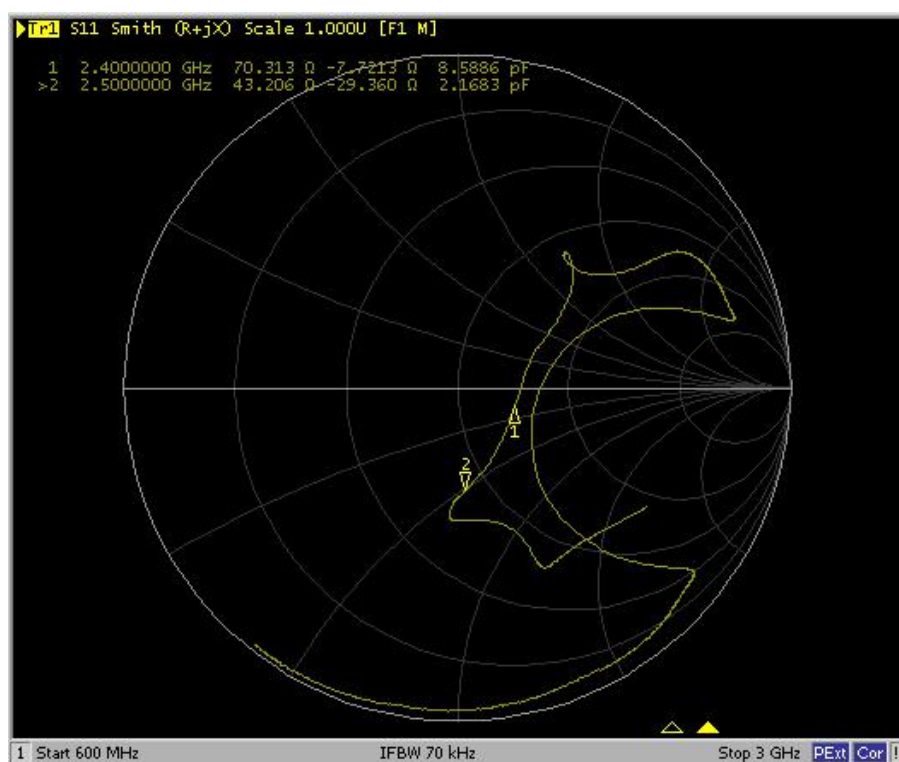
5.1.1 VSWR plot



5.1.2 VSWR data

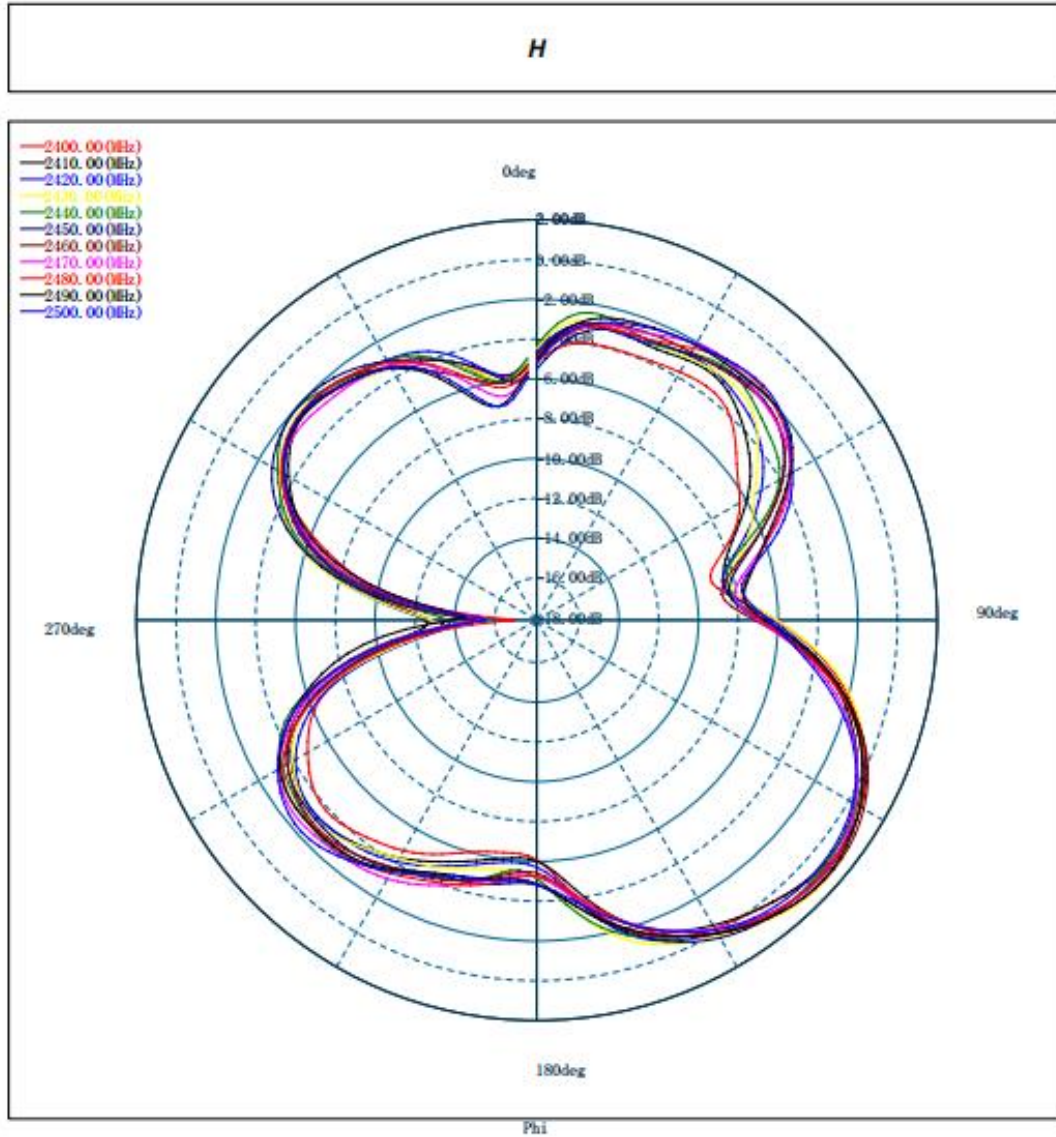
Freq/MHz	2400	2500
VSWR	1.4	1.8

5.2 Smith plot



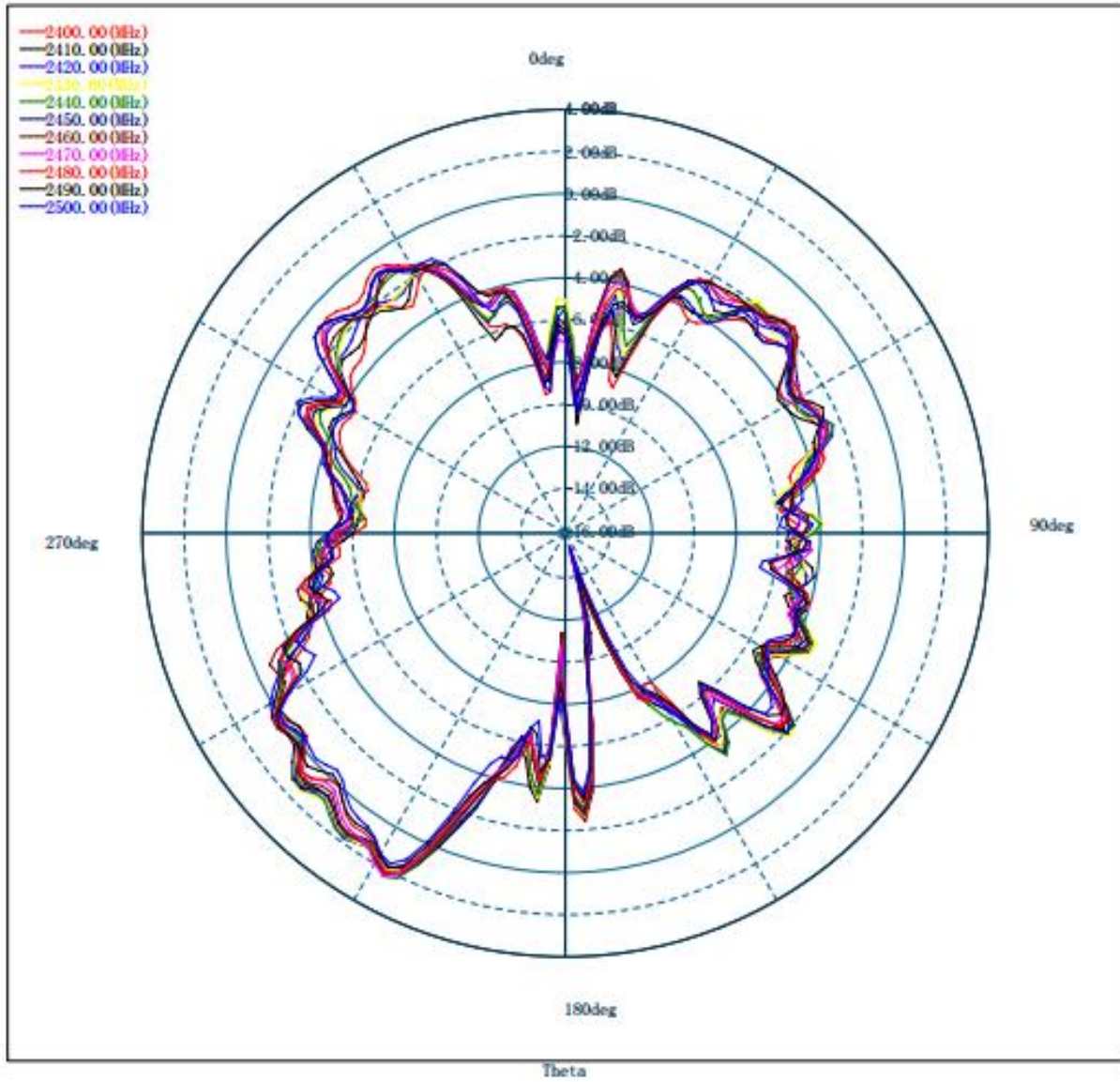
5.3 Radiation pattern

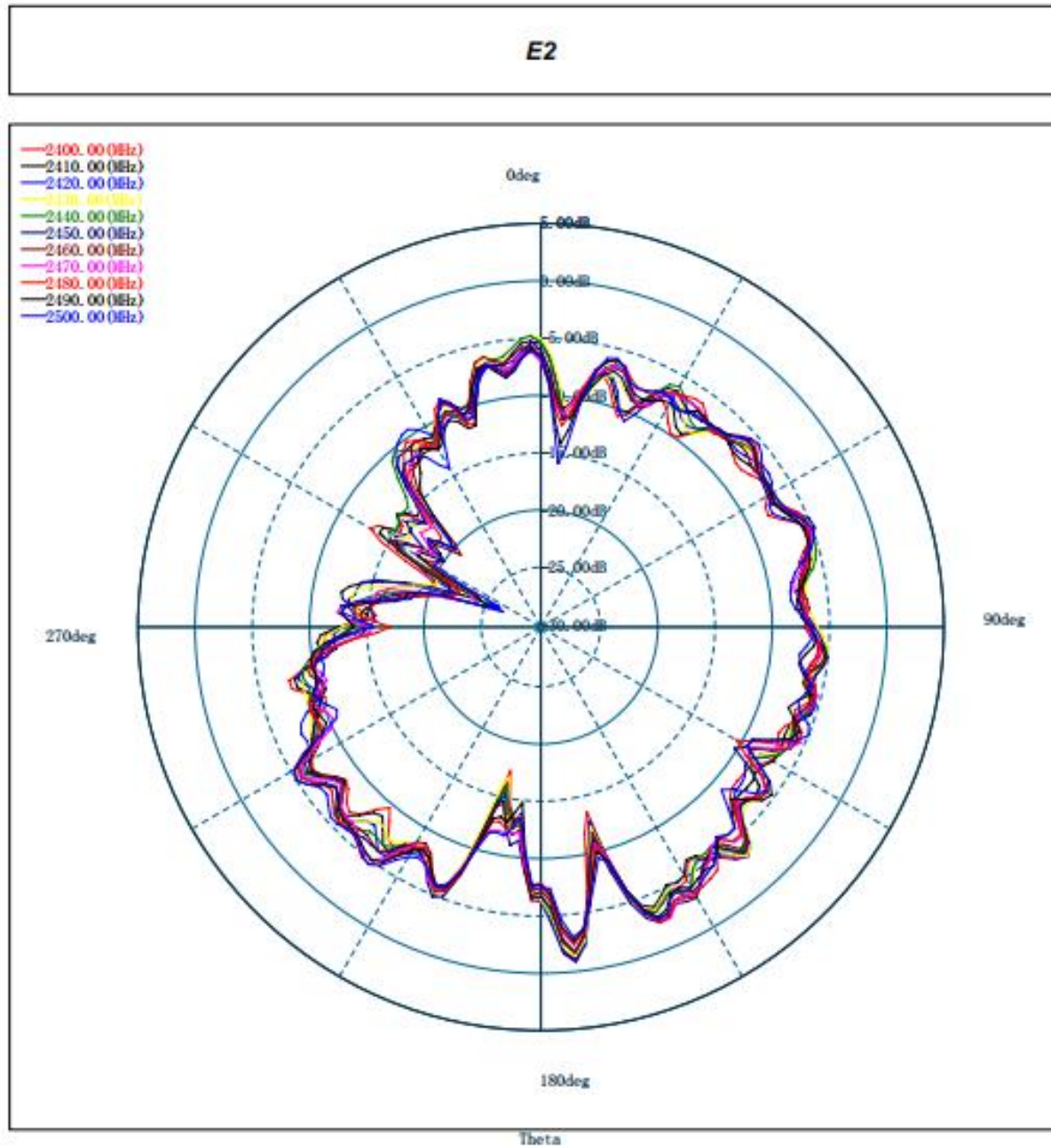
5.3.1 H-plane



5.3.2 E-plane

E1





5.4 UGain & Efficiency

Frequency [Hz]	Efficiency	Gain [dBi]
----------------	------------	------------

2400000000	46%	3.328330282
2410000000	47%	3.166213031
2420000000	50%	3.394949211
2430000000	51%	3.637590036
2440000000	53%	3.407480388
2450000000	53%	3.465102035
2460000000	54%	3.407844042
2470000000	54%	3.171319114
2480000000	54%	3.298410001
2490000000	54%	3.147985841
2500000000	52%	2.925550042

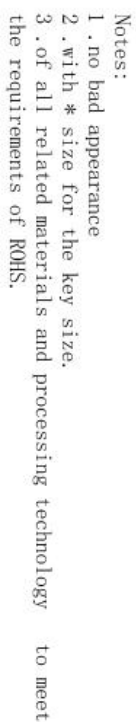
6 Environmental treatment suggestions

Environment does not need treatment

7 Impedance matching

The matching circuit has not been changed

8 Antenna plan



 JESONCOM	PROJECTION 		DESIGN: Steven
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN mm GENERAL TOLERANCE:		
± 0.3 ± 0.20 ± 0.10 $\Delta \pm 0.5^1$ MINOR	Model No: 15K003A Edition: T : A Material: Surface Treatment: Color :	Checked : Approved : Unit: mm Scale : 1 : 1 Date : 2020. 04. 20	Name : Antenna
Shanghai Jesoncom Communication Engineering Co.,Ltd			