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# **SPECIFICATION FOR APPROVAL**

**CUSTOMER/PROJECT:** \_\_\_\_\_

**CUSTOMER P.N.:** \_\_\_\_\_

**PRODUCT NAME:** **PCB ANT**

**MODEL NO.:** **2.4G**

**SPECIFICATION:** \_\_\_\_\_

<b>SUPPLIER AUTHORIZED SIGNATURE</b>		
<b>PREPARED</b>	<b>CHECKED</b>	<b>APPROVED</b>
<b>WDH</b>		

<b>CUSTOMER AUTHORIZED SIGNATURE</b>			
<b>PM</b>		<b>QE</b>	

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

## 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 .....	8-10
5.4_UGain & Efficiency .....	11
6 Environmental treatment suggestions.....	12
7 Impedance matching.....	12
8 Antenna plan.....	13
8.1_Antenna dimensional drawing.....	13

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8.2 Coaxical cable length drawing .....	13
8.3 Connecter drawing.....	13
9 Antenna installation guide.....	14
9.1 Antenna installation instructions.....	14
9.2 Coaxical routing.....	14
10 Other.....	14

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## 1 Noun explanation

dB <sub>i</sub>	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-2.5G	2400MHz~2483MHz

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## 4 Test project

4.1 VSWR plot

4.2 Simth plot

4.3 Radiation pattern

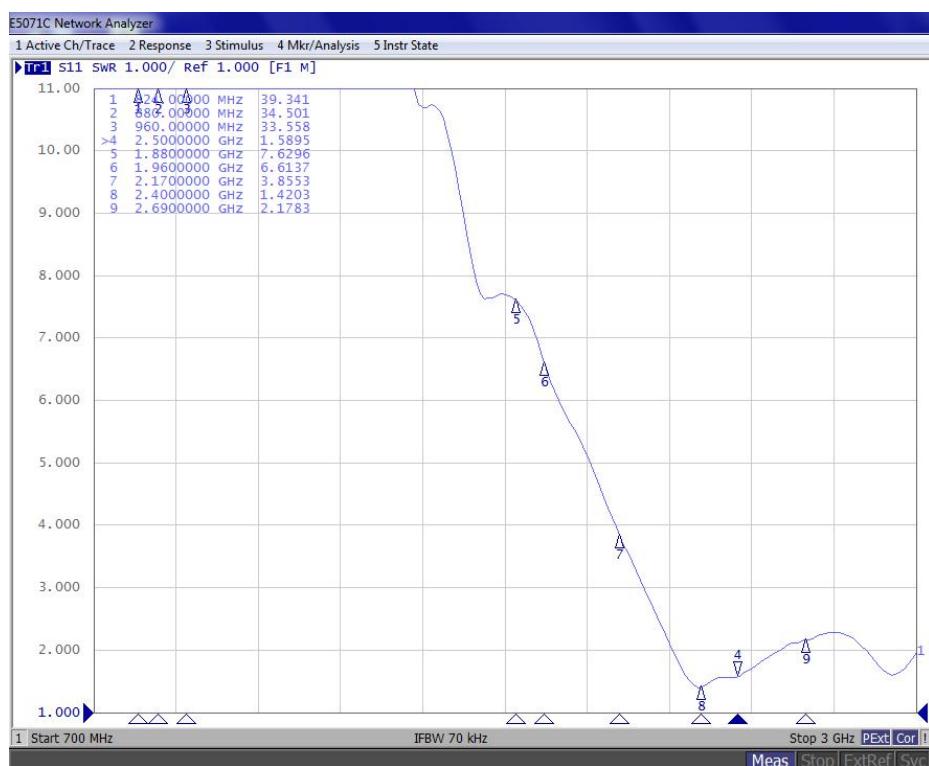
4.4 Gain & Efficiency

4.5 TRP&TIS

## 5 Antenna parameter

5.1 VSWR

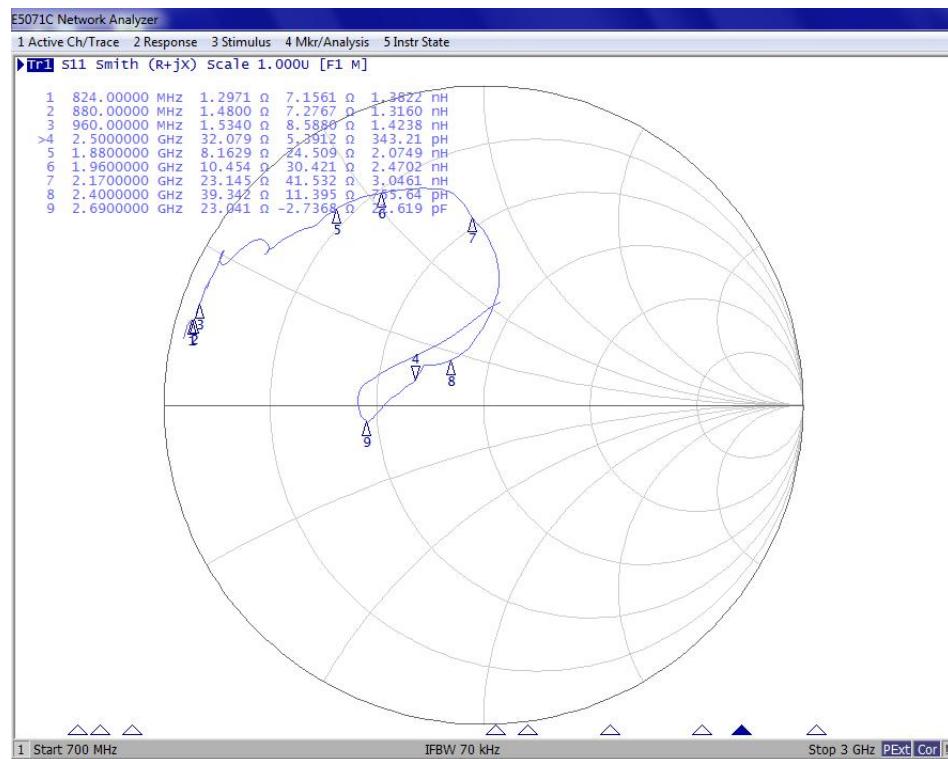
5.1.1 VSWR plot



### 5.1.2 VSWR data

Freq/MHz	2400	2500
VSWR	1.4	1.5

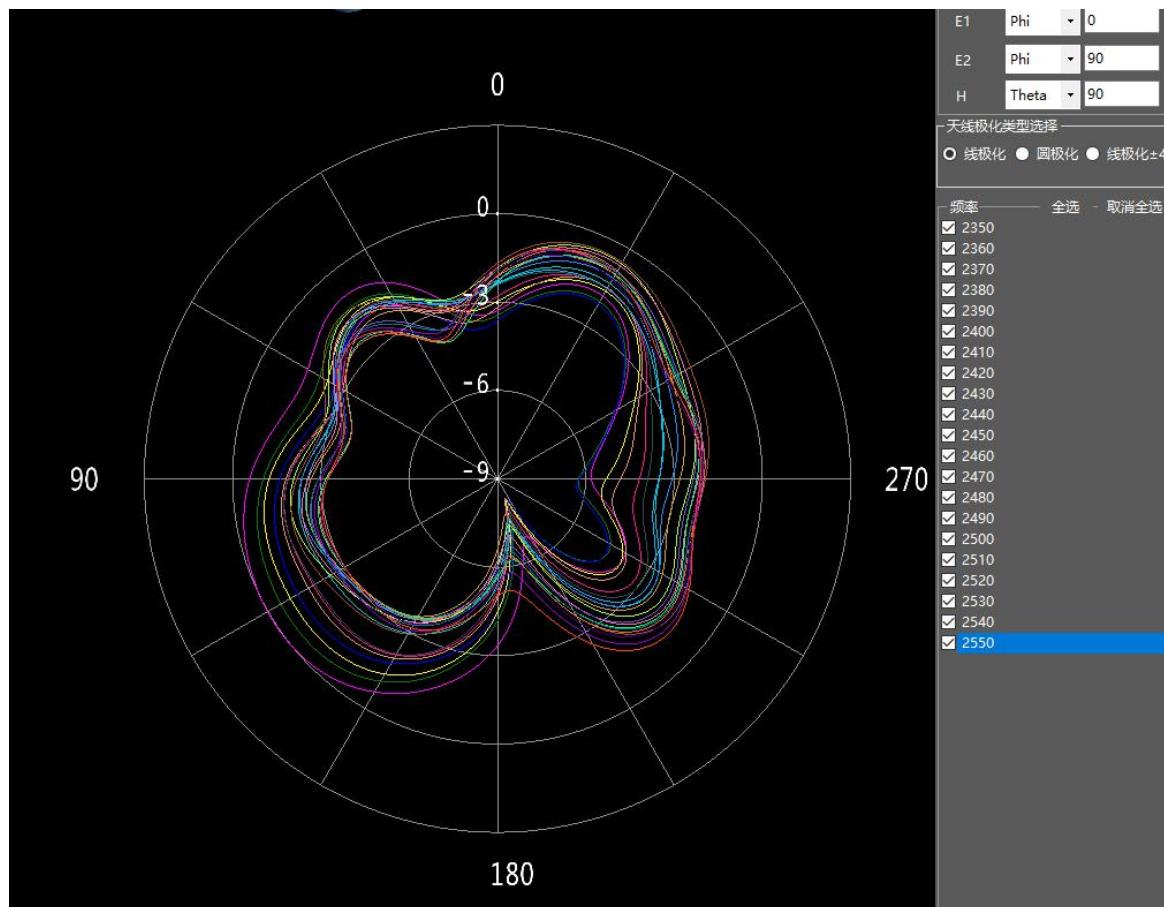
### 5.2 Simth plot



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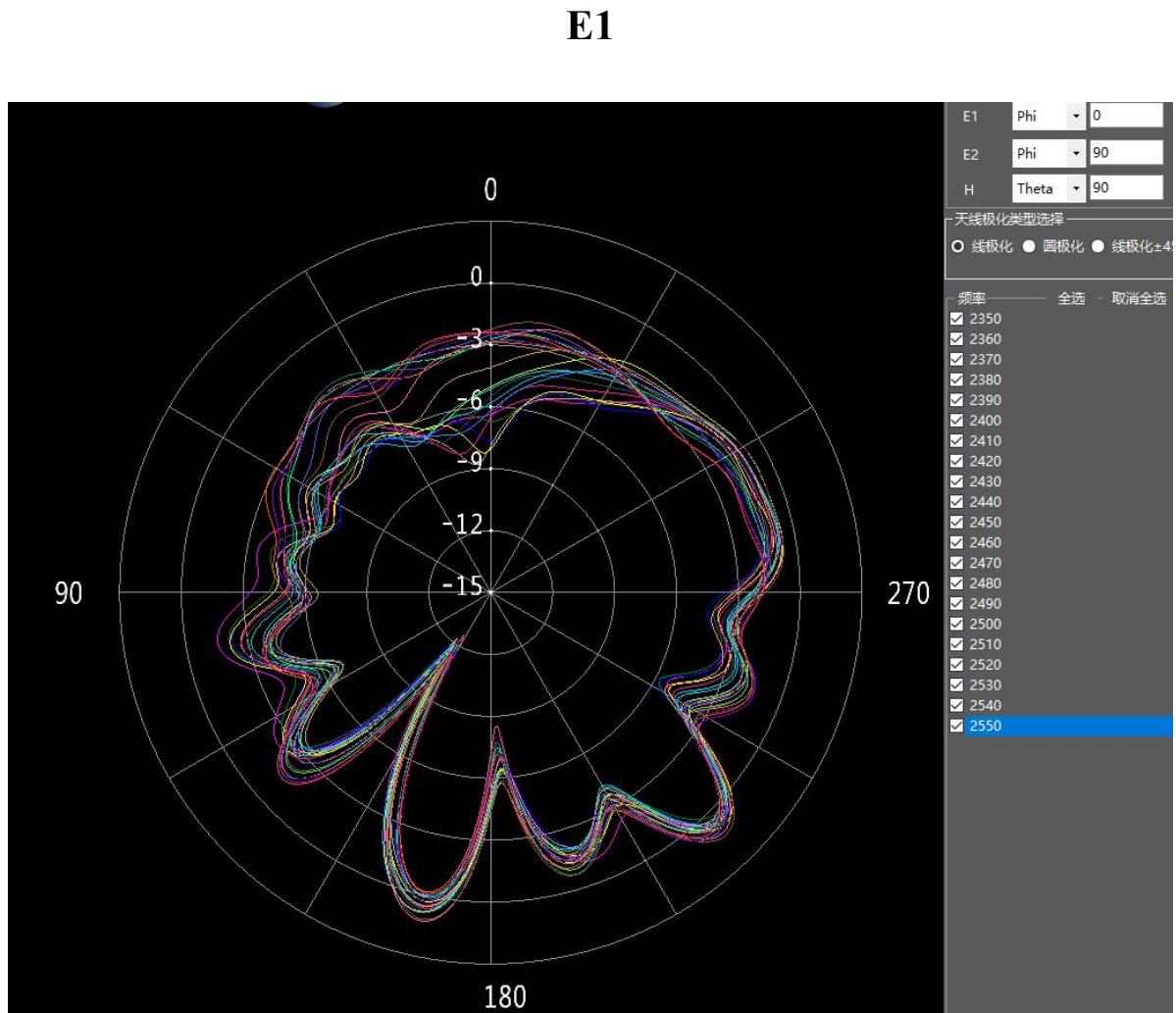
## 5.3 Radiation pattern

### 5.3.1 H-plane

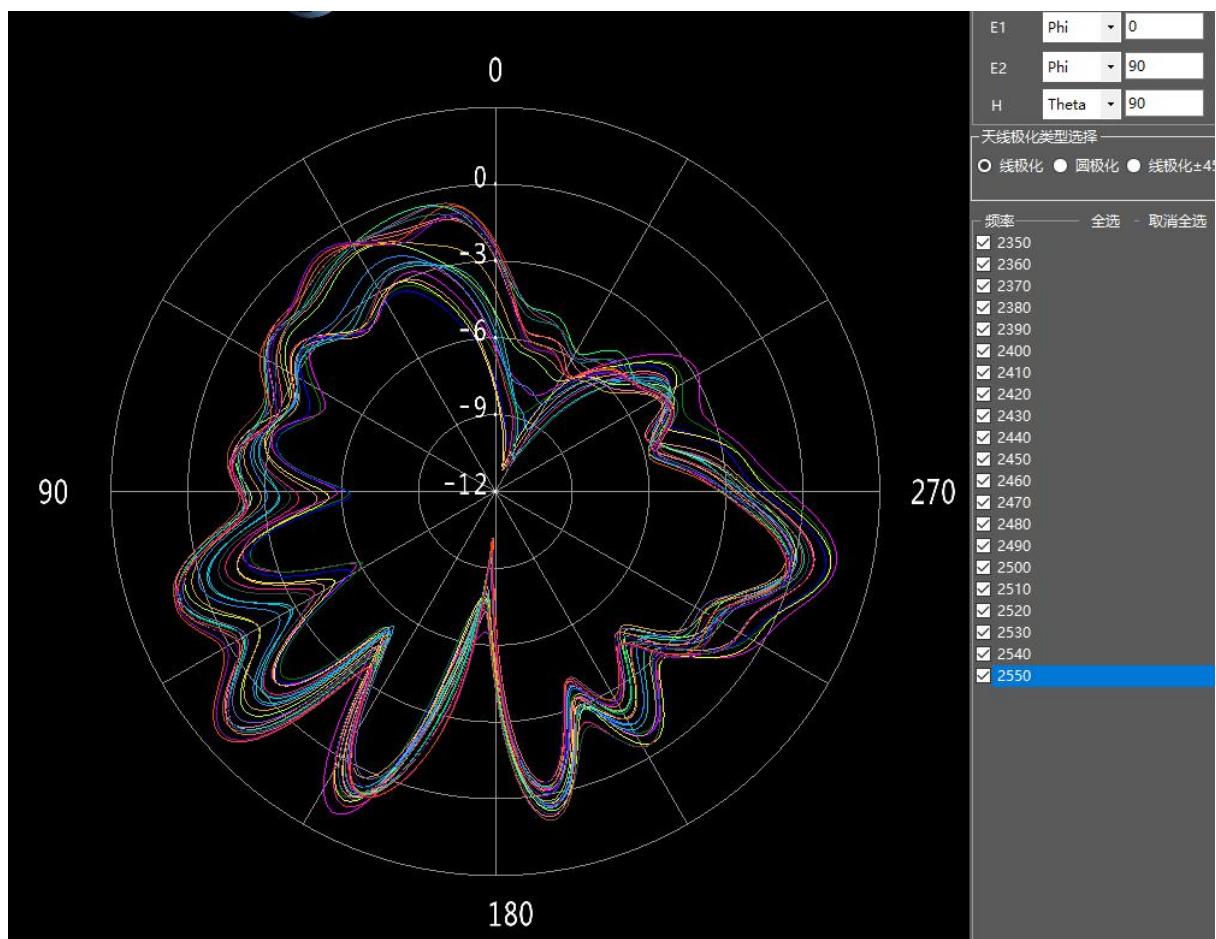


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### 5.3.2 E-plane



## E2



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## 5.4 UGain & Efficiency

频率(MHz)	增益(dBi)	效率(%)
2350	1.09	56.76
2370	1.04	50.93
2390	1.02	51.13
2400	1.14	54.60
2420	1.18	54.33
2450	1.06	58.65
2480	1.14	63.92
2500	1.10	59.85
2520	1.01	59.95
2550	1.09	62.31

<u>WIFI</u>	<u>TRP</u>		<u>T/S</u>	
	<u>UL_Channel</u>		<u>DL_Channel</u>	
<b><u>11b</u></b>	1	<b>16.01</b>	1	<b>-77.24</b>
	6	<b>15.83</b>	6	<b>-81.43</b>
	11	<b>15.41</b>	11	<b>-81.52</b>

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## 6 Environmental treatment suggestions

Environment does not need treatment

## 7 Impedance matching

E01	E02	E03
NC	1.2nH	2nH

