

产品规格书

Product Specification

产品名称: WIFI Antenna

PRODUCT NAME

客户名称: 深圳市新玛电子有限公司

CUSTOMER NAME Shenzhen Xinma Electronics Co., Ltd.

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1. Purpose

Standardize the specifications and testing methods for mobile communication terminal antenna products produced by Shenzhen Xinma Electronics Co., Ltd., to avoid errors caused by differences in testing conditions and methods.

2. Overview of product categories and product models

2.1 Product Model Overview This report mainly provides an overview of the electrical results of the antenna designed for the project.

The frequency band of this antenna design is: WiFi (2.4G)。

3. Technical Specifications and Experimental Equipment

3.1 技术指标

Product Electrical Performance Indicators	
Operating frequency range	2412~2472 MHz:
Standing wave ratio	2412~2472 MHz: ≤1.5
Antenna Gain	2412~2472 MHz: ≥-1.5dbm
Radiation efficiency	2412~2472 MHz: ≥25%
Impedance	50 ohm
Product Material Description	
FPC	Electrolytic copper +PI
Product Environment Description	
Operating temperature	- 30℃ ~ + 85 ℃
Storage Temperature	- 30℃ ~ + 85 ℃

3.2 Description of Experimental Equipment

List	Testing project	Equipment
1. S Parameters	1.Return loss 2. VSWR at	Network analyzer: Agilent 8753ES
2. Coupling power test	1. Transmission power 2. Receiving sensitivity	Comprehensive tester: Agilent 8960 E5515C
3. Radiation pattern and gain	1. Radiation pattern 2. Antenna gain	1. Darkroom: 7x4x3 m (3D) 2. Network analyzer : Agilent 8753ES

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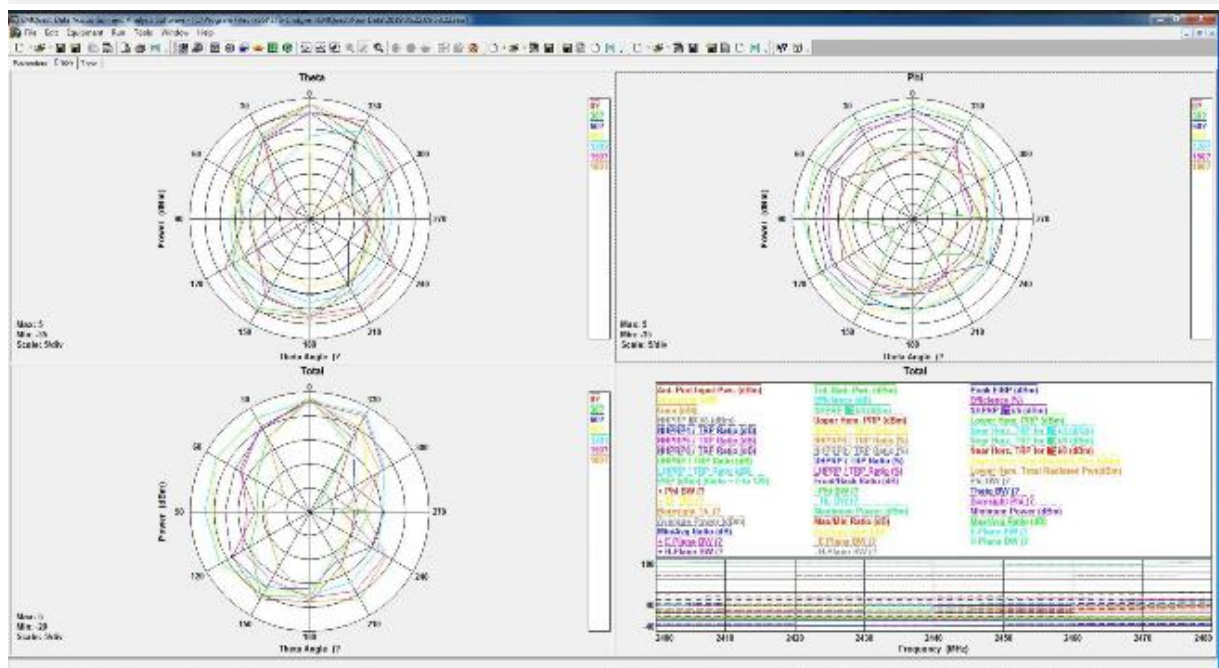
5.产品测试报告

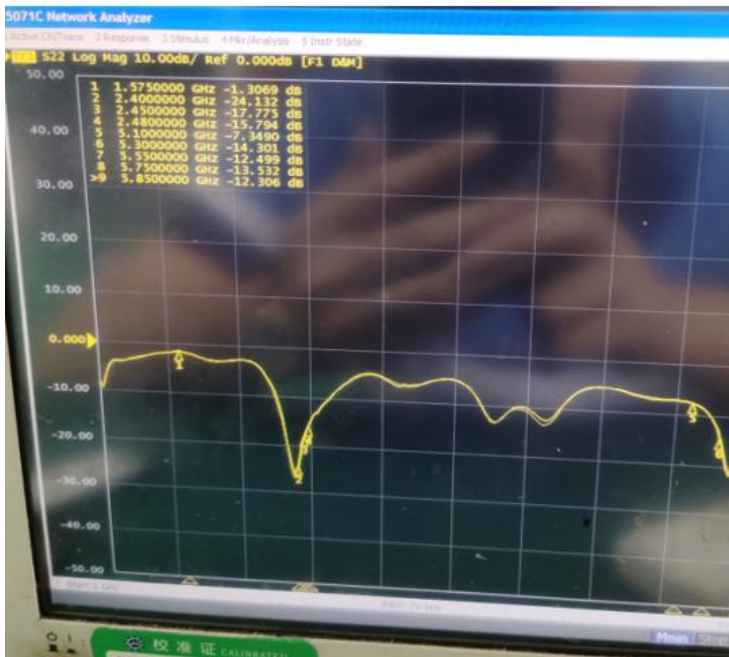
5.1 WIFI Antenna test data

频率 (MHZ)	效率 (%)	增益 (dbi)
2412	35.6	1.56
2422	36.8	1.28
2432	36.9	1.22
2442	38.2	1.15
2452	32.1	1.08
2462	30.2	1.42
2472	30.1	1.5

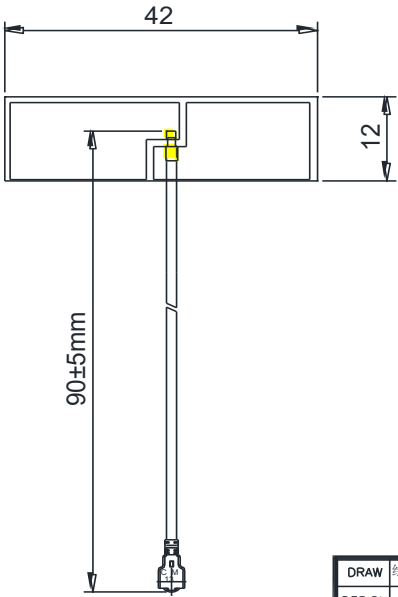
5.2BT Antenna test data

频率 (MHZ)	效率 (%)	增益 (dBi)
2420	36.5	1.49
2430	37.2	1.19
2440	38.6	1.15
2450	33.5	1.32
2460	31.5	1.43
2470	31.1	1.39
2480	30.5	1.47





BOM					
ITEM	COMPONENT	DESCRIPTION	Q'TY	P/N	VENDOR
1	CABLE	RF1.13 黑色 L=90mm	1PCS		
2	端子	CM-113-BU	1PCS		
3	FPC	40*12mm 哑黑	1PCS		



黑油 3M300LSE

DRAW	绘图员		
DESIGN	设计		
CHECK	校阅		
APPRO	承认		

深圳市新玛电子有限公司			
E	名称	2.4G天线	
	TITLE:		
	料号 PART NO.	BW2.4FNX42-12B1L90	
	客户料号 CUS. P/N		
	图号 DRAWING NO.		
	SCALE	UNIT	mm A4