Product specification acknowledgement
Mobile communication terminal antenna
Product design and manufacturing

产品名称： **H1 投影仪 H1 Projector**
Product name

客户名称： **志源zhiyuan**
Customer name

客户料号： /

客户	客户		Shenzhen AIHUI Technology Co., LTD	
客户确认	品　质	研 发 部	结 构	核 准
		李路	陈益初	曹杨
日期：　年　月　日	日期：　2022 年 09 月 09 日			

深圳市艾汇科技有限公司
Shenzhen AIHUI Technology Co., LTD
地址：深圳市宝安区西乡固戍南昌路 58 号钜鑫科技产业园 C 栋 4 楼 TEL：0755-23203435
FAX：0755-23203435

深圳市艾汇科技有限公司
Shenzhen AIHUI Technology Co., LTD

Work out	Yang Cao	specification	edition	A
Issuing department	R&D		Issue date	18.05.04

1. AIM

The product specifications and test methods of mobile communication terminal antennas produced by Shenzhen Aihui Technology Co., Ltd. are standardized to avoid errors caused by different test conditions and methods.

2. Product category and product model overview

2.1 Product model overview

This report provides an overview of the electrical results of the antennas designed for the H1 Projector project. This antenna design frequency band Is: 2.4/5G WIFI segment.

3. Description of basic parameters and experimental equipment

3.1 Basic parameter

Product electrical performance index	
工作频率范围 Operating frequency range	2400-2500MHz 4900-5850MHz
驻波比 Standing-wave ratio	2400-2500 MHz: < 1.5 4900-5850MHz
天线增益 Gain	2400-2500 MHz: 1.5dBi ± 0.5dBi 4900-5850MHz
辐射效率 Radiation efficiency	2400-2500 MHz: > 50% 4900-5850MHz
阻抗impedance	50 ohm
Product material description	
FPC	Electrolytic copper**+PI**
Coaxial line	Braided wire
Product environment description	
Operating temperature	- 30˚C ~ + 85 ˚C
Storage temperature	- 30˚C ~ + 85 ˚C

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

4.1 Antenna data

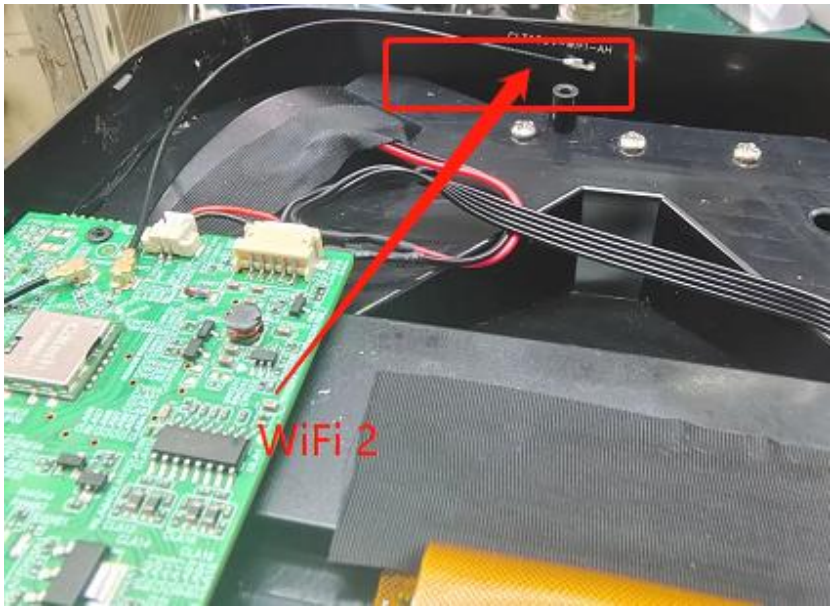
频率（MHZ）	效率（%）	增益（dbi）
2400	50.13	1.16
2410	50.15	1.16
2420	50.67	1.19
2430	51.18	1.25
2450	52.34	1.67
2460	51.73	1.31
2470	51.47	1.28
2480	51.19	1.25
2490	50.38	1.18
2500	50.19	1.19

WIFI测试数据：

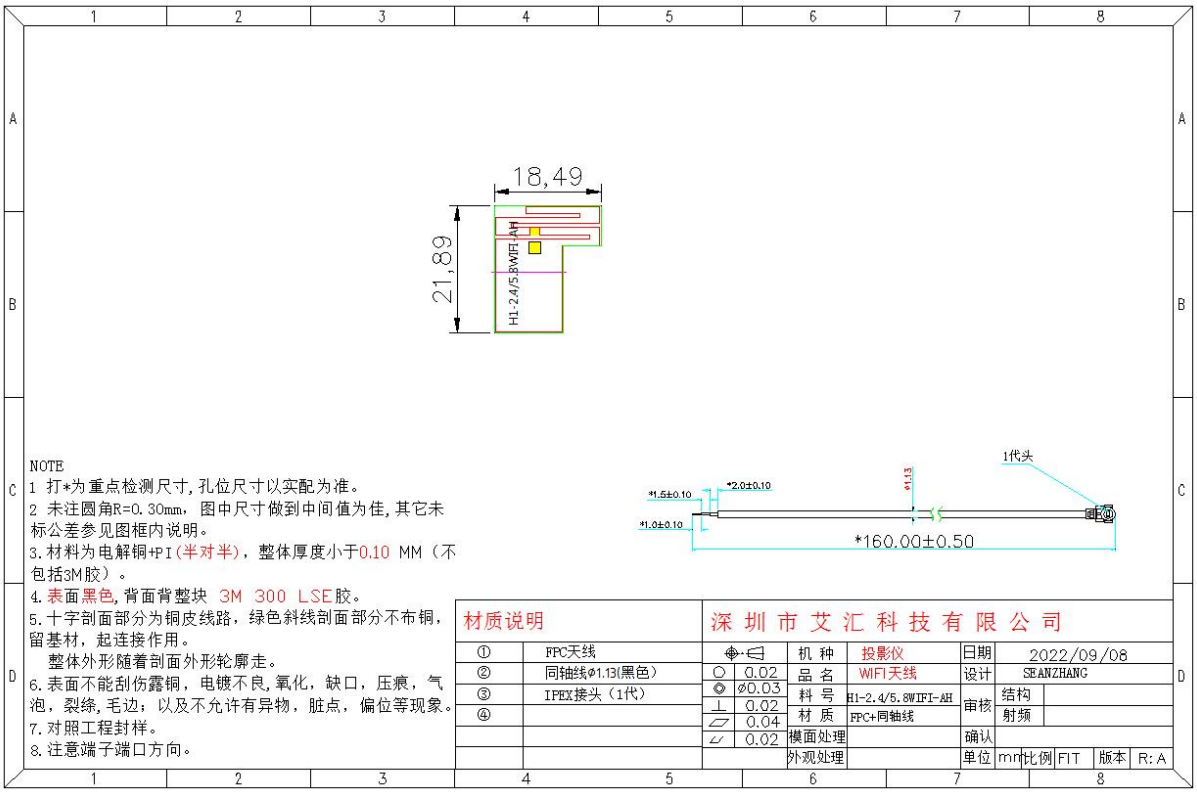
WIFI: 5.8G

频率（MHZ）	效率（%）	增益（dbi）
4900	52.3	1.13
4950	54.2	1.05
5150	53.8	1.30
5200	53.5	1.30
5250	56.3	1.55
5300	55.8	1.43
5350	56.7	1.58
5400	57.9	1.65
5450	60.3	1.88
5500	61.5	2.05
5550	60.8	1.95
5600	60.8	1.91
5650	61.5	2.08
5700	62.3	2.19
5750	59.8	1.78
5800	58.7	1.68
5850	59.9	1.85

5.1 Antenna assembly drawing



6. Antenna structure drawing



Work out	Yang Cao	specification	edition	A
Issuing department	R&D		Issue date	18.05.04