R1天线规格书

Confirmation of products

客户名称 Customer	Shenzhen Innioasis Technology Co.,Ltd				
项目名称 Project Name	R1	版本 Version	A.1	日期 Date	2024-04-02
项目料号 Project NO.	05.13.01.0001	客户料号 Customer NO.			
频段 Frequency Range	2400~2500MHz	备注 Notes	version number: V1.0		
设计 Designed By					
审核 Approved By					
客户确认 Clients' Approval					

公司名称：深圳市林荣科技有限公司
Designer：SHENZHEN LINRONG TECHNOLOGY CO.,LTD

地址：深圳市龙华区大浪街道华荣路联建工业园 1 栋 3 楼
ADD：Floor 3, building 1, LianJian Industrial Park, Huarong Road, Dalang street, Longhua District, Shenzhen

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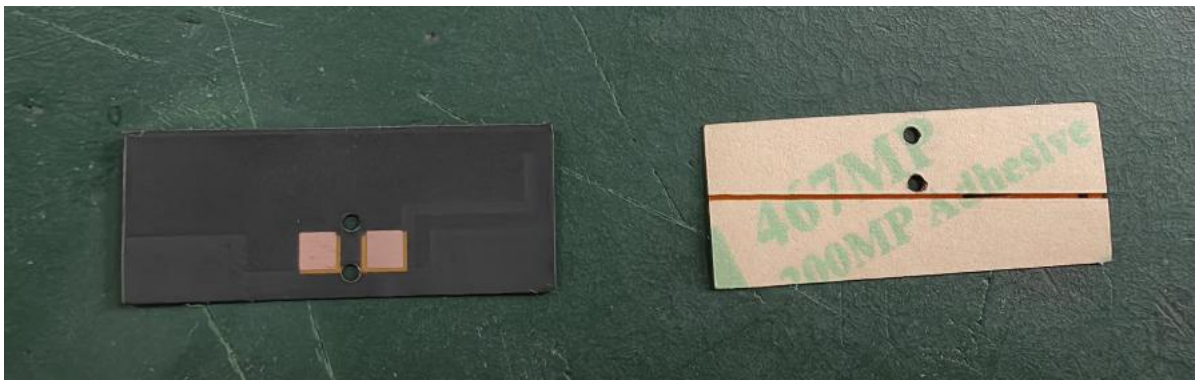
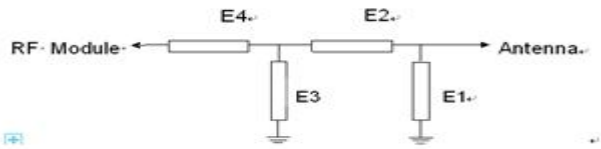
1、Specification

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ----R1 Picture 1 shows the antenna designed by LR.



2 、Matching circuit diagram



Element	Value
E1(0201)	
E2(0201)	0欧姆
E3(0201)	
E4(0201)	0欧姆

3、 VSWR Testing

3.1 Testing connection

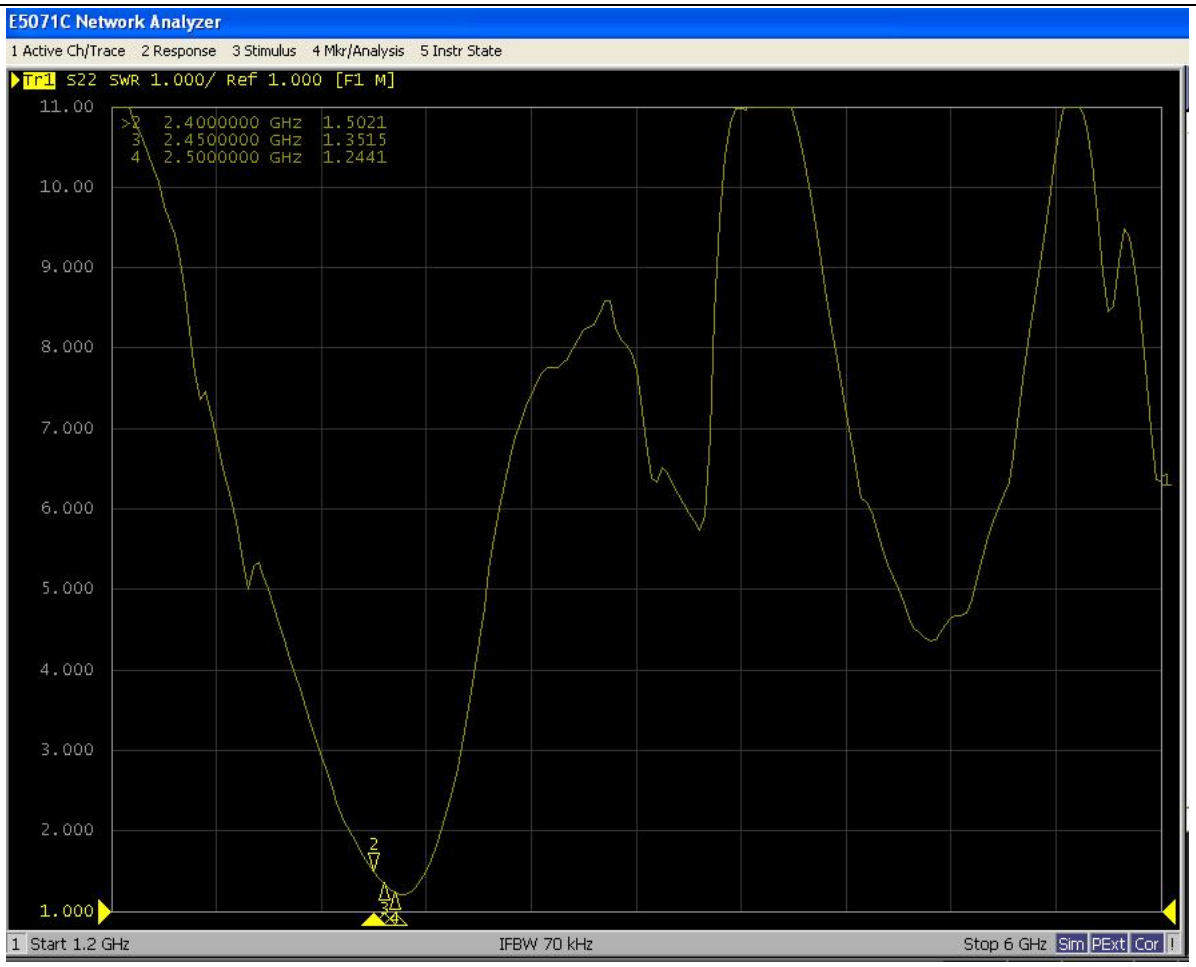
The VSWR testing devices are connected in sequence: Agilent5071C Network Analyzer →Testing Cable → Customer-providing Devices.

3.2 VSWR

The following table expresses the VSWR value of antenna's two edges of its frequency range. With regard to the relevant diagram of VSWR

R1 VSWR			
Frequency (MHz)	2400	2450	2500
VSWR	1.50	1.35	1.24

3.3 Testing data



R1 antenna VSWR

4、Test the efficiency of the antenna Testing

4.1 Testing field

LR Microwave Anechoic Chamber ： testing frequency ranges from 400MHz to 6GHz and the 40cm diameter spherical quite zone, the chamber provides less than －90dB reflectivity from 400MHz—6GHz.

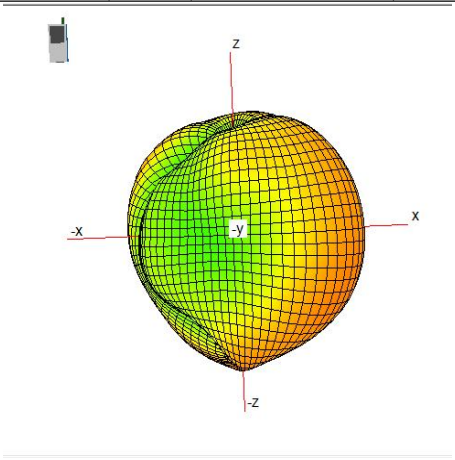
4.2 Testing results

The following table indicates the testing results related to Power and Sensitivity in Microwave Anechoic Chamber，concerning the relative diagram.

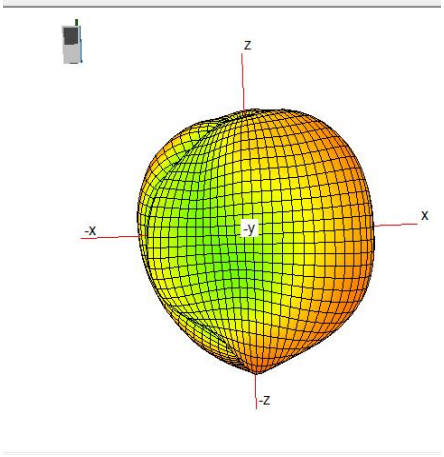
以下 R1 天线无源测试数据：

Freq(MHz)	Gain	Efficiency(%)	Freq(MHz)	Gain	Efficiency(%)
2300	0.99	42.99	2460	2.16	56.95
2310	0.97	43.57	2470	2.09	56.74
2320	1.03	43.84	2480	2.25	57.49
2330	1.23	45.79	2490	2.38	57.60
2340	1.39	48.06	2500	2.39	57.87
2350	1.61	50.64	2510	2.31	58.34
2360	1.88	53.29	2520	2.45	59.07
2370	2.14	54.86	2530	2.48	59.38
2380	2.15	55.42	2540	2.49	59.80
2390	2.23	55.14	2550	2.49	60.23
2400	2.17	54.78	2560	2.51	59.27
2410	2.05	53.47	2570	2.44	58.39

2420	2.05	53.74	2580	2.40	57.64
2430	2.01	54.26	2590	2.42	57.85
2440	2.00	55.37	2600	2.34	56.97
2450	2.02	55.86			



2400MHz

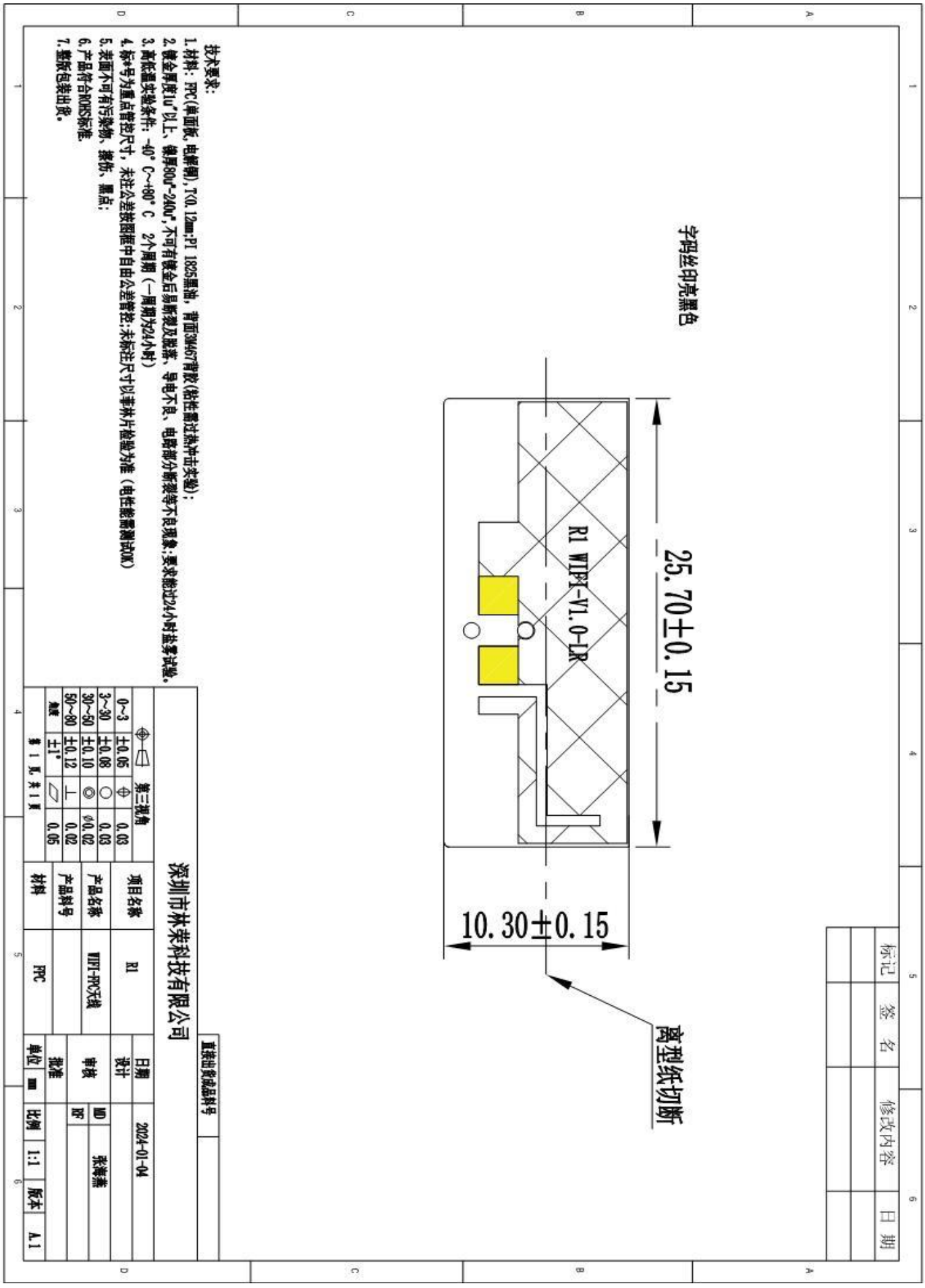


2500MHz

5、Environmental treatment

Original machine environment status

6、Mechanical Dimension Drawing



7. Mechanical Dimension Testing report

全尺寸测量报告

Vendor(供应商)	林荣科技	材质名称		FPC	/	Part NO(料号)	05.13.01.0001	Tool Number (模号)	/	Cav. Number(穴数)	/	Unit(单位)	☑ MILLIMETERS ☐ INCHES	Quality(品质签字)	万江华
		材质牌号				Part Name (零件名称)	R1 WIFI FPC天线			Rev(版本)	A.1				
日期	2024-4-2					MEASURED DIMENSION(实测尺寸)		% TOLERANCE USED (公差使用百分比)		DISPOSITION				ACCEPTABLE VARIANCE	

DIM. #	DIMENSION	DRAWING ZONE			NOTE	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	UPPER	LOWER	0%-25%	25%-50%	50%-75%	75%-100%	100%+	Re-Measure	Accept	Fix Tool	Accept With Variance	DIMENSION	+TOL.	-TOL.
1	25.70		0.15	(0.15)		25.74	25.72	25.77	25.68	25.70	47%	-13%	x	x								25.70	25.77	25.68
2	10.30		0.15	(0.15)		10.32	10.35	10.30	10.32	10.36	40%	0%		x								10.30	10.36	10.30
3	以下空白																							
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								

备注：除了上述标注的填写内容外，须输入的内容：

1. DIMENSION, +TOL, -TOL, SAMPLE1, SAMPLE2, SAMPLE3

2. 注意1中描述的内容输入时，请：

a. 在%TOLERANCEUSED(公差使用百分比)中无论是UPPER还是LOWER>100%，须：

(1)检查输入数据是否输入错误；(2)测量数据是否操作有误或是仪器测量不准确；(3)测量时间是否不适宜；(4)排除了(1)(2)(3)外，仍然>100%，请设计师对每个尺寸的后面作出选择即从"Re-measure, Accepet, Re Tool, Accept Virance"中选一，若是选Accept with virance，必须完成后面的Dimension, +TOL, -TOL；

b. DIMENSION栏中的即尺寸前一栏中的DIM.#必须与图面上的一致；同时注意，在作Cpk的尺寸的尺寸编号与FAI全尺寸测量报告中的尺寸的编号必须是相同的，且Cpk尺寸必须被用符号标注，此标注号必须表示的意思是指该尺寸为重点管控尺寸，要做Cpk！

c. 测量工具代号Measure No.: A=calipers(0.00) B=micrometer(0.000) C=Pin Guage(0.000) D=High Guage(0.000) E=CMM(0.000) F=Plug Guage(0.00) G=R Guage (0.0) I=Deep Guage (0.000)

8、 Packaging standard

包装说明：具体包装数量以实物为准，图片只显示包装的方式，并非此项目实物。

Packaging Description: the specific packaging quantity is subject to the physical object. The picture only shows the way of packaging, not the physical object of the project

 天线用 PE 袋包装 The top cover board, with PE film packaging	 防潮防水 PET 袋封装，放于纸箱内 Moistureproof waterproof PET bag packaging， Put in the cartons
 纸箱用胶带封口 Carton sealing with duct tape	 包装箱整箱外观（） Cases appearance