

样品承认书 Confirmation of products

客户名称 Customer	深圳妇	麦创新技术有[限公司		
项目名称	M001	版本	A 1	日期	2024 02 02
Project Name	MO01	Version	A. 1	Date	2024-08-02
项目料号		客户料号			
Draigat NO	30.01.10.01	Customer	H	M-M001-0	002-090
Project NO.		NO.			
频段	$2400^2 2500 \mathrm{MHz}$	备注		ТХ	
Frequency Range	2400 2300miiz	Notes		ΙΛ	
设计	张海燕 田秋奎	王宇			
Designed By	水 海州 口朳主	工士			
审核	解瑞洁				
Approved By	胜场行				
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 ----M001 Picture 1 shows the antenna designed by LR.



2、 VSWR Testing

2.1 Testing connection

The **Return Loss** testing devices are connected in sequence: Agilent5071C Network Analyzer \rightarrow Testing Cable \rightarrow Customer-providing Devices.

2.2 VSWR

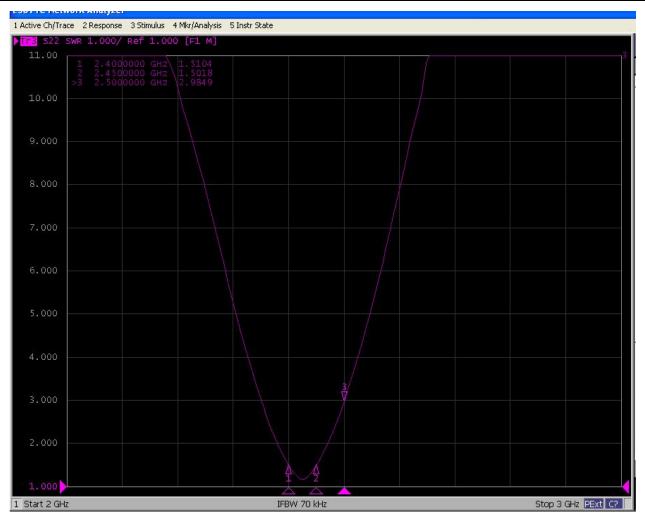
The following table expresses the VSWR value of antenna's two edges of its frequency range. With regard to the relevant diagram of VSWR

	M001 TX V	/SWR	
Frequency (MHz)	2400	2450	2500
VSWR	1.51	1.50	2.98

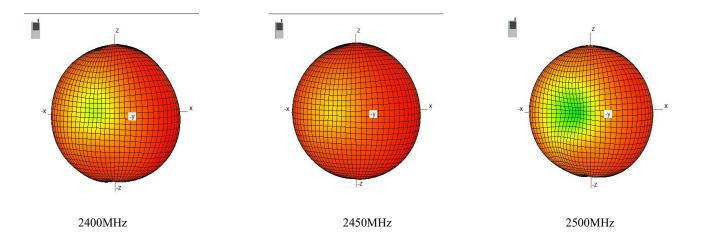
2.3 Testing data



深圳市林荣科技有限公司



2.4G BT antenna VSWR



3. Power, Sensiticity Testing

3.1 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.

3.2 Testing results



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

3.3 Active testing.

M001	Antenna	efficiency
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Freq(MHz)	Gain	Efficiency(%)
2400	-1.82	31.09
2410	-1.51	34.22
2420	-1.27	37.13
2430	-1.15	41.00
2440	-1.32	44.23
2450	-1.05	46.86
2460	-1.41	47.69
2470	-0.90	48.51
2480	-0.96	48.63
2490	-1.10	48.21
2500	-1.34	45.81

M001 Active data

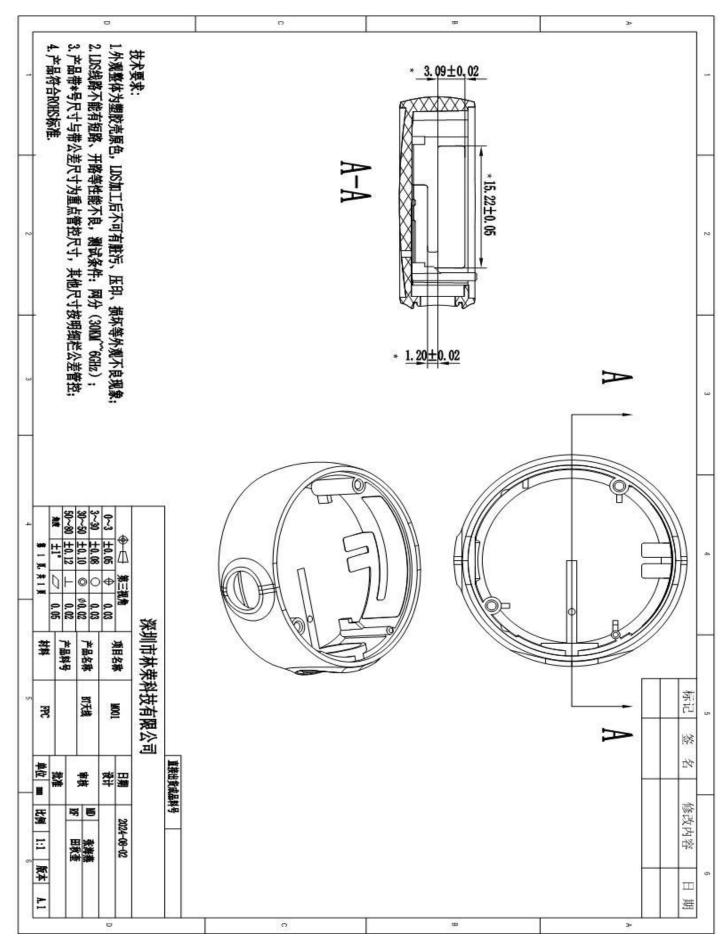
	chNO	Freq (MHz)	TRP	TIS
	0	2402	10.37	-93.79
7#	39	2441	9.09	-93.21
	78	2480	7.18	-92.23
	0	2402	10.35	-93.65
10#	39	2441	8.42	-92.54
	78	2480	6.55	-91.09

4、Environmental treatment

Original assembly of the entire machine



5、 Mechanical Dimension Drawing





6. Mechanical Dimension Testing report

Vendor(供应商) 材质名称	谷株	LDS		Part NO(料号)	(特号)	3	30.01.10.01		Tool Number	Cav. Number(大教)	er()	1				5	Unit(单位)	19			Qual	Quality(品质签字)
林荣科技 材质牌号	李	-		Part Name	lame		157 天线。		(機号)					< A	LIME	TERS	_	-	INCH	MILLIMETERS TINCHES		5744 ()
ALL PERMIT				(零件名称)	名奏)		10 / Vor		1	Rev(版本)		A.1						1				
E A	2024-8-2	-8-2		MEA	SURED [DIMENSI	MEASURED DIMENSION(实测尺寸)	ह च)	% TOLERANCE USED (公差使用百分比)	NCE USED]百分比)		ŵ		DISP	SPO	OSITION	z	· ·)(8	ACCEPT	ACCEPTABLE VARIANCE
DIM. #	+ 10L.	. TOL	NOTE	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 1 SAMPLE 2 SAMPLE 3 SAMPLE 4 SAMPLE 5	SAMPLE 5	UPPER	LOWER	0%-25%	25%-50%	50%-75%	75%-100%	100%+	Re-Measure		Accept	Accept Fix Tool		Fix Tool	Fix Tool Accept With Variance
	0.05	(0.05)		15.23	15.21	15.23	15.25	15.21	15%	-20%	×										15.22	15.22 15.25
2 3.09	0.02	(0.02)		3.09	3.10	3.09	3.08	3.09	50%	-50%	×		×								3.09	3.09 3.10
3 1.20	0.02	(0.02)		1.21	1.20	1.19	1.21	1.20	50%	-50%	×		×								1.20	1.20 1.21
4 以下空白																						
5																						
6																	-					
7							20 - 10 2															
8													_				-					
9																				-		
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12				24. 52			2.) 2				2	~						Ĩ				
13	ļ										_				_		_	_	_			

ac.ex.xc18187(5179)馬店留起尺寸,要做Cpk! c. 瀕量工具代号Weasure No.; A=callipers(0,00) B=micrometer(0,000) (0,000) C=Pin Guage (0,000) D=High Guage (0,000) E=CAM(0,000) F=Plug Guage(0,00) G=R Guage (0,0) I=Deep Guage



7. 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,放于纸箱或胶筐内 Moistureproof waterproof PET bag packaging, Put in the cartons
新報用胶帶封口 Carton sealing with duct tape	をしていたいです。 を実績整箱外观() Cases appearance