

样品承认书

Confirmation of products

客户名称 Customer	Sharge Technology (Shenzhen) Co.,LTD				
项目名称 Project Name	A2	版本 Version	A. 1	日期 Date	2026-6-5
项目料号 Project NO.	36.01.10.001	客户料号 Customer NO.			
频段 Frequency Range	2400~2500MHz 5100~5800MHz	备注 Notes	LDS (Version V3)		
设计 Designed By	Tian Qiukui	Zhang Haiyan	Wang Yu		
审核 Approved By	Tang Chunyan				
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

Index

1. Specifications	3
2. VSWR Testing	3
2-1 Testing connection	3
2-2 VSWR	4
2-3 Testing data	4
3.Power、 Sensitivity Testing	4
3-1 Testing field	4
3-2 Testing results	5
3.3 Active testing	6
4、 Environmental treatment	6
5. Mechanical Dimension Drawing	7
6. Mechanical Dimension Testing report	8
7、 Packaging standard	10

1、Specification

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ----A2 Picture 1 shows the antenna designed by LR.



2、 VSWR Testing

2.1 Testing connection

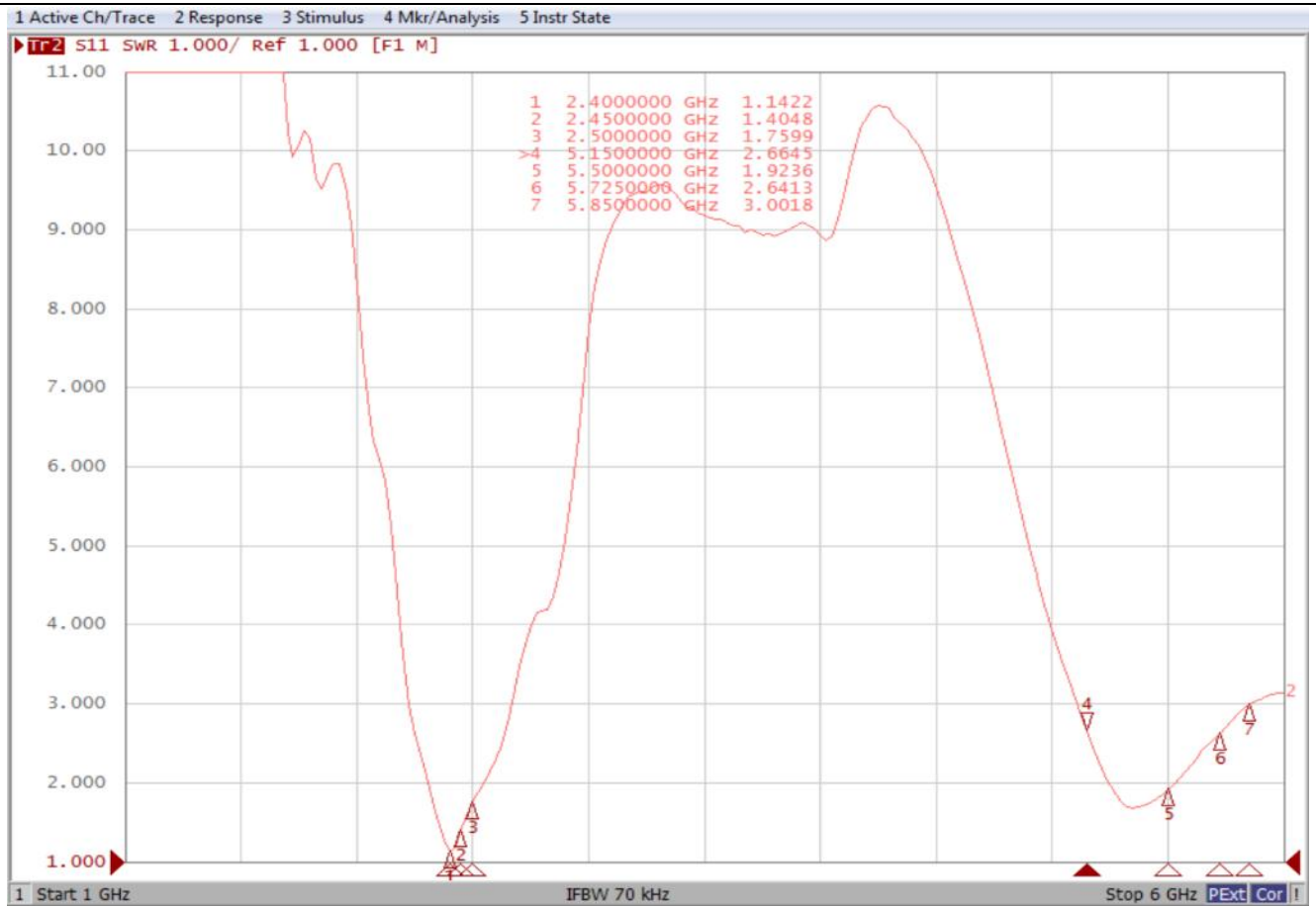
The Return Loss testing devices are connected in sequence: Agilent5071C Network Analyzer →Testing Cable → Customer-providing Devices.

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

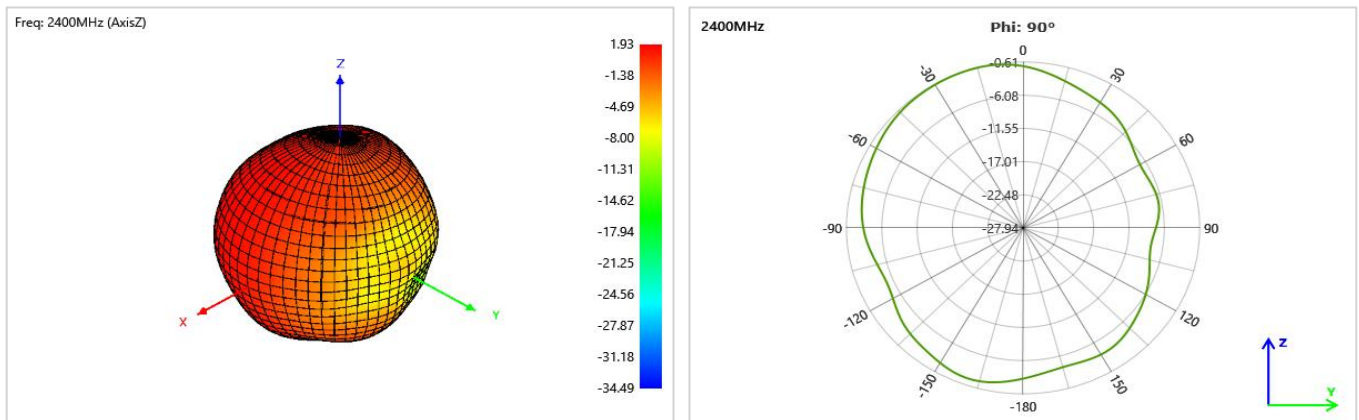
A2 WIFI VSWR						
Frequency (MHz)	2400	2450	2500	5150	5500	5850
VSWR	1.14	1.40	1.75	2.66	1.92	3.00

2.3 Testing data



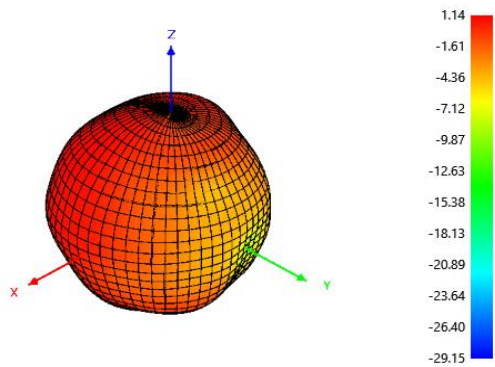
2.4+5.8G WIFI antenna VSWR

2400MHz

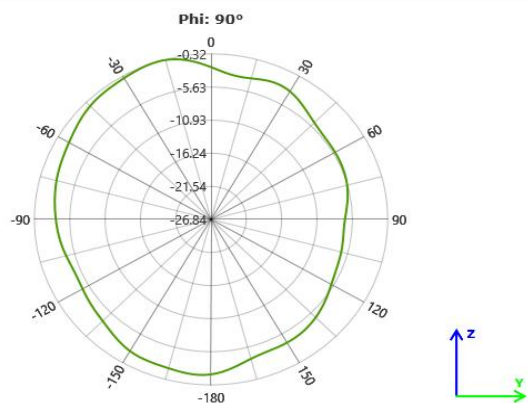


2450MHz

Freq: 2450MHz (AxisZ)

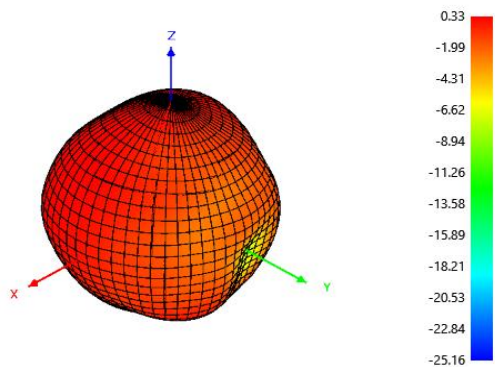


2450MHz

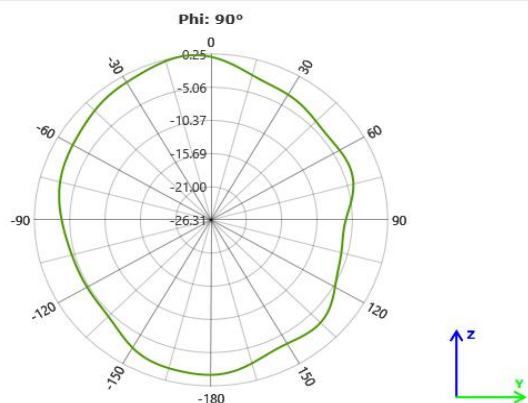


2500MHz

Freq: 2500MHz (AxisZ)

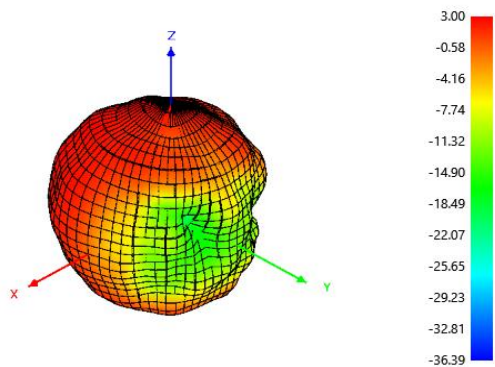


2500MHz

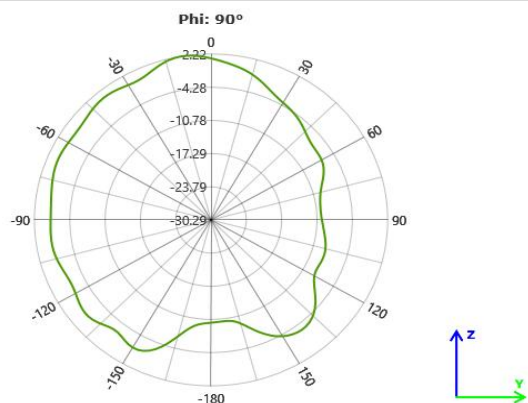


5100MHz

Freq: 5100MHz (AxisZ)

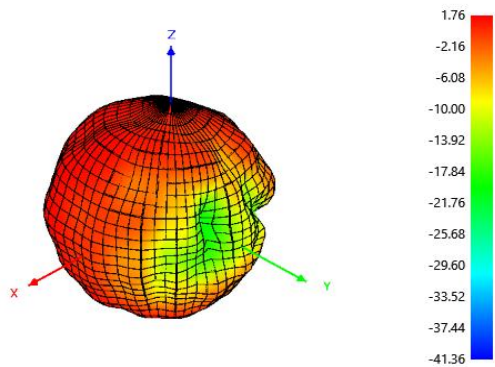


5100MHz

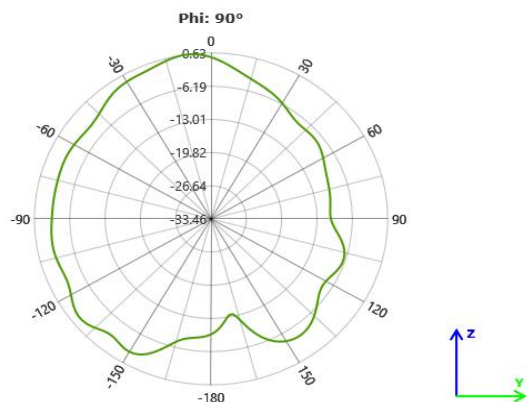


5500MHz

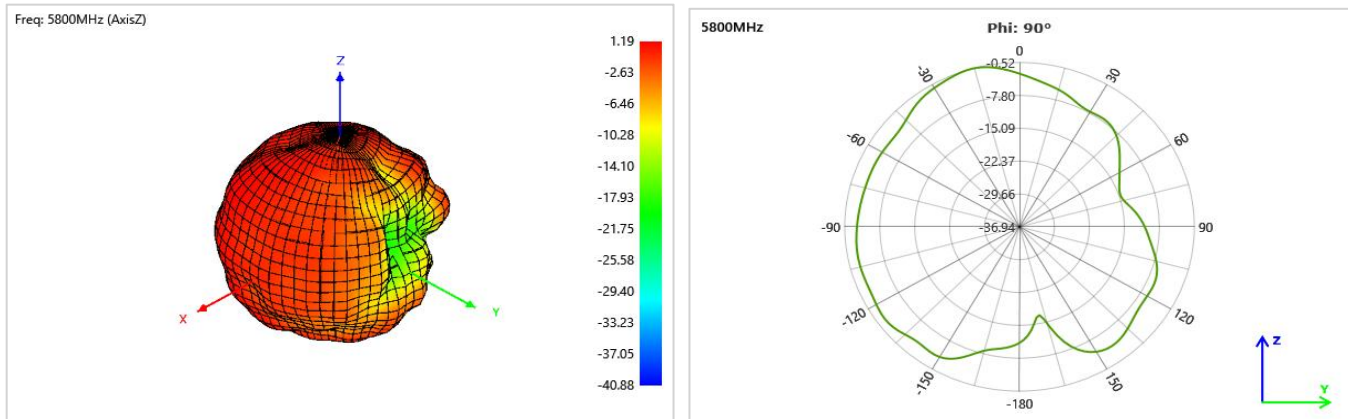
Freq: 5500MHz (AxisZ)



5500MHz



5800MHz



3、 Power、 Sensitivity Testing

3.1 Testing field

LR Microwave Anechoic Chamber : testing frequency ranges from 400MHz to 6GHz and the 40cm diameter spherical quiet 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.

A2 Antenna efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)
2300	0.74	38.45	5200	2.74	49.30
2310	0.92	40.46	5220	2.67	49.05
2320	1.08	41.04	5240	2.55	48.00
2330	1.26	42.10	5260	2.44	47.12
2340	1.48	43.52	5280	2.22	45.86
2350	1.53	43.84	5300	2.00	45.59
2360	1.64	44.66	5320	2.07	44.56
2370	1.81	46.12	5340	1.91	43.52
2380	1.86	46.25	5360	1.73	43.99
2390	1.89	46.39	5380	1.86	42.61
2400	1.93	47.47	5400	2.04	44.11
2410	1.91	48.25	5420	1.92	45.08
2420	1.74	48.35	5440	1.68	44.65
2430	1.52	48.80	5460	1.69	45.16
2440	1.30	49.78	5480	1.61	44.14
2450	1.14	50.45	5500	1.76	45.29
2460	0.95	51.04	5520	1.64	44.44
2470	0.70	51.33	5540	1.41	42.55
2480	0.45	51.24	5560	1.45	42.62
2490	0.33	51.10	5580	1.36	41.30
2500	0.33	51.33	5600	1.29	40.55

2510	0.31	51.70	5620	1.27	39.95
2520	0.40	51.93	5640	1.19	39.22
2530	0.46	52.29	5660	1.07	38.96
2540	0.46	53.06	5680	1.05	38.39
2550	0.51	54.23	5700	1.01	37.96
2560	0.53	54.09	5720	0.93	38.29
2570	0.58	53.24	5740	0.82	37.98
2580	0.71	53.28	5760	0.77	38.49
2590	0.87	53.29	5780	0.87	39.47
2600	0.98	53.09	5800	1.19	41.76
5100	3.00	47.76	5820	1.38	43.28
5120	2.77	45.90	5840	1.05	41.43
5140	2.80	47.18	5860	1.12	43.08
5160	2.75	48.32	5880	0.93	41.74
5180	2.62	47.48	5900	0.79	40.73

A2 Active data

1#

	CH	TRP	TIS
11A-54M	36	13.53	-68.53
	56	15.88	-75.76
	165	12.10	-69.55

2#

	CH	TRP	TIS
11A-54M	36	12.03	-67.03
	56	13.38	-66.26
	165	11.60	-67.05

4、Environmental treatment

Original machine environment

5、 Mechanical Dimension Drawing

