

样品承认书

Confirmation of products

客户名称 Customer					
项目名称 Project Name	SD11	版本 Version	A. 2	日期 Date	2023-03-25
项目料号 Project NO.	03. 08. 03. 001	客户料号 Customer NO.	54. 07. 001. 0085A		
频段 Frequency Range	2400~2500MHz 5100~5800MHz	备注 Notes			
设计 Designed By					
审核 Approved By					
客户确认 Clients' Approval					

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1、 Specification

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ----SD11 Picture 1 shows the antenna designed by LR.



2、 VSWR Testing

2.1 Testing connection

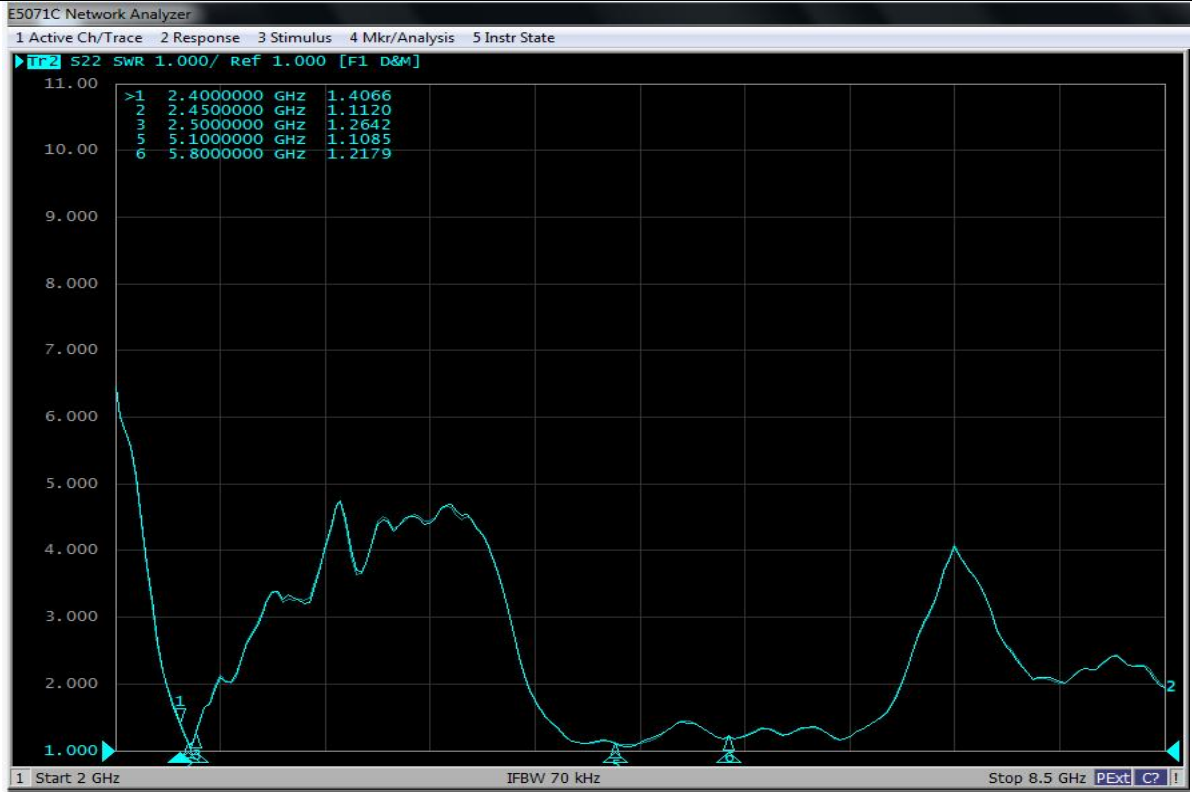
The Return Loss testing devices are connected in sequence: Agilent5071C Network Analyzer → Testing Cable → Customer-providing Devices.

2.2 VSWR

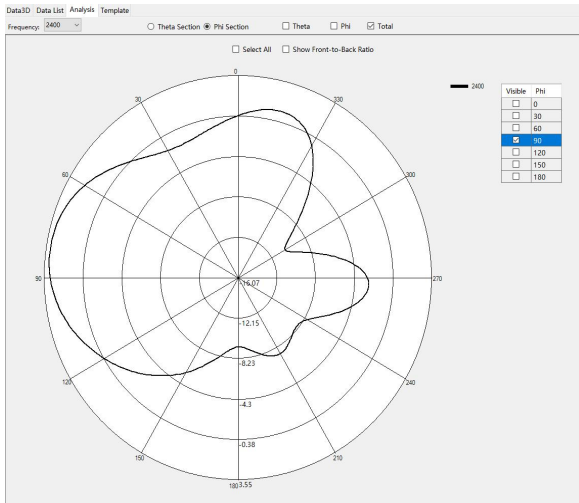
The following table expresses the VSWR value of antenna's two edges of its frequency range. With regard to the relevant diagram of VSWR

SD11 WIFI VSWR					
Frequency (MHz)	2400	2450	2500	5100	5800
VSWR	1.49	1.11	1.26	1.100	1.21

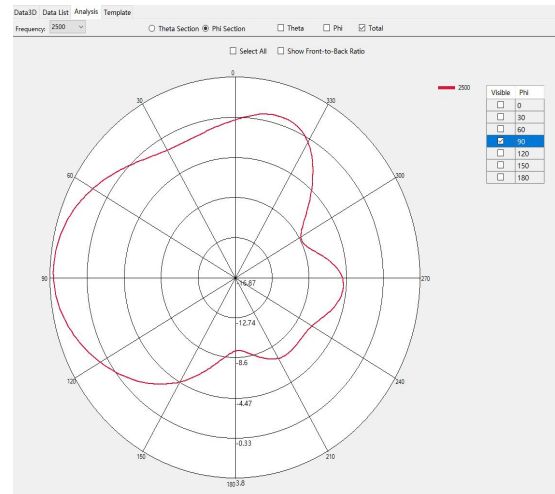
2.3 Testing data



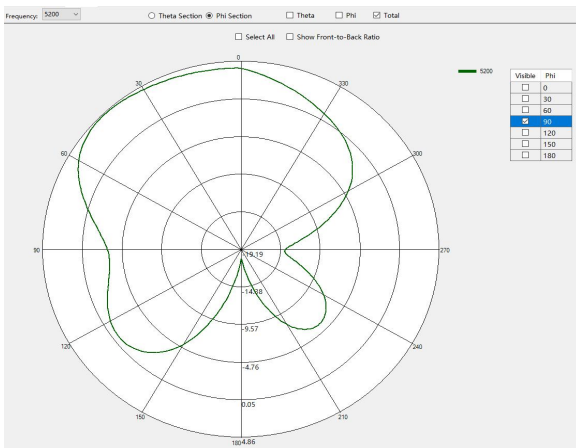
2.4+5.8G WIFI antenna VSWR



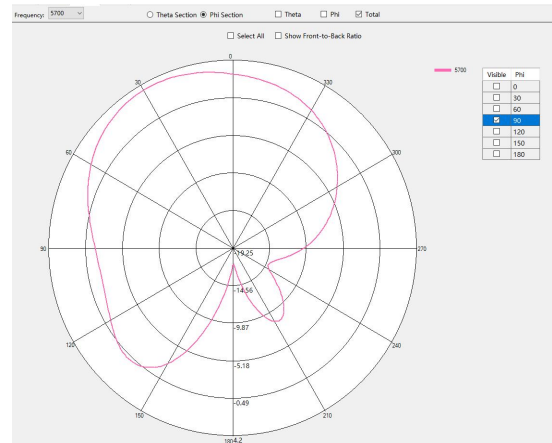
2400MHz



2500MHz

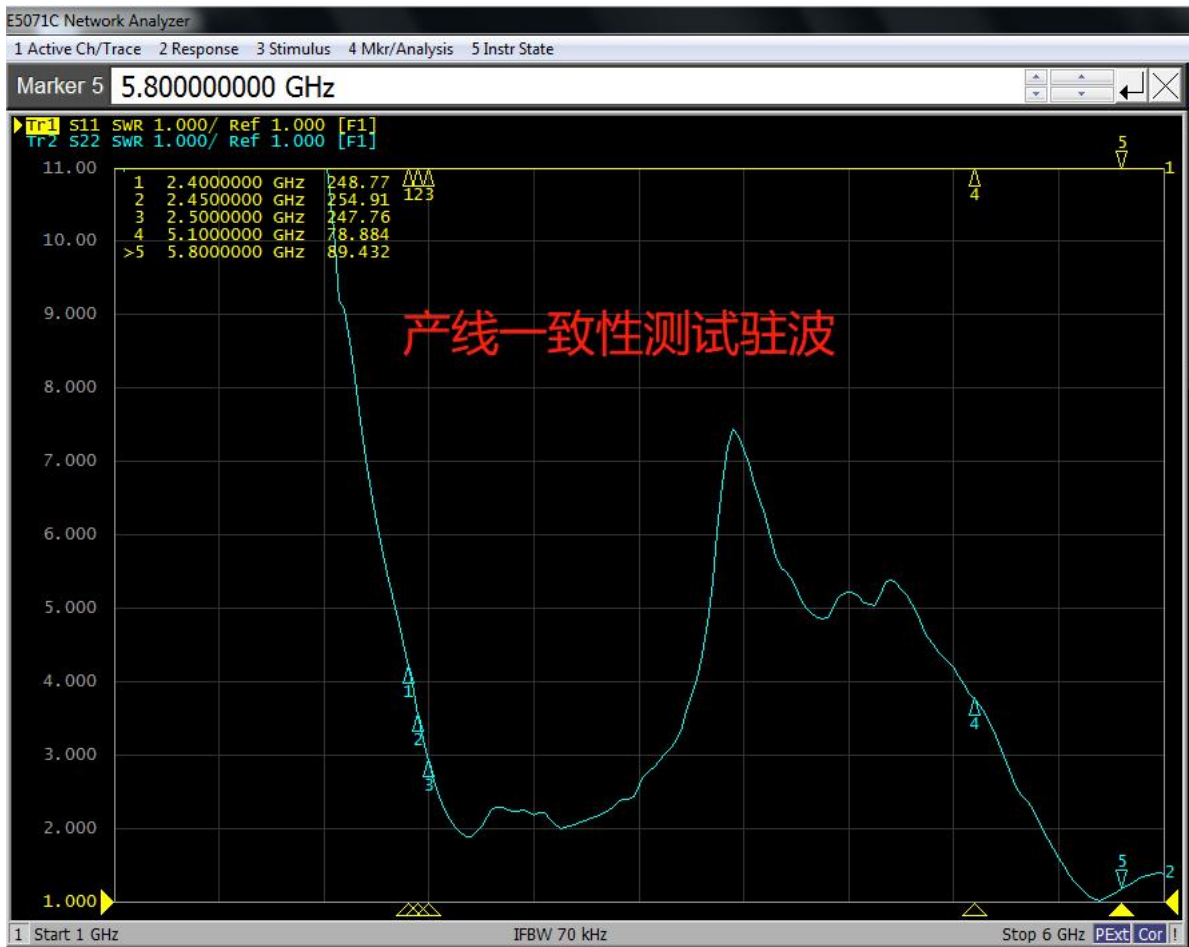


5200MHz



5700MHz

2.4 Single antenna test VSWR



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.

天线无源效率 Antenna passive efficiency

Freq MHz	Gain dBi	Efficiency	Freq MHz	Gain dBi	Efficiency
2400	3.4	61.9	5360	4.7	60.5
2410	3.6	62.0	5380	4.8	62.6
2420	3.6	62.3	5400	4.9	62.5
2430	3.7	62.6	5420	4.9	62.8
2440	3.7	64.0	5440	4.9	61.8
2450	3.9	64.9	5460	4.9	61.1
2460	3.7	65.6	5480	5.0	60.9

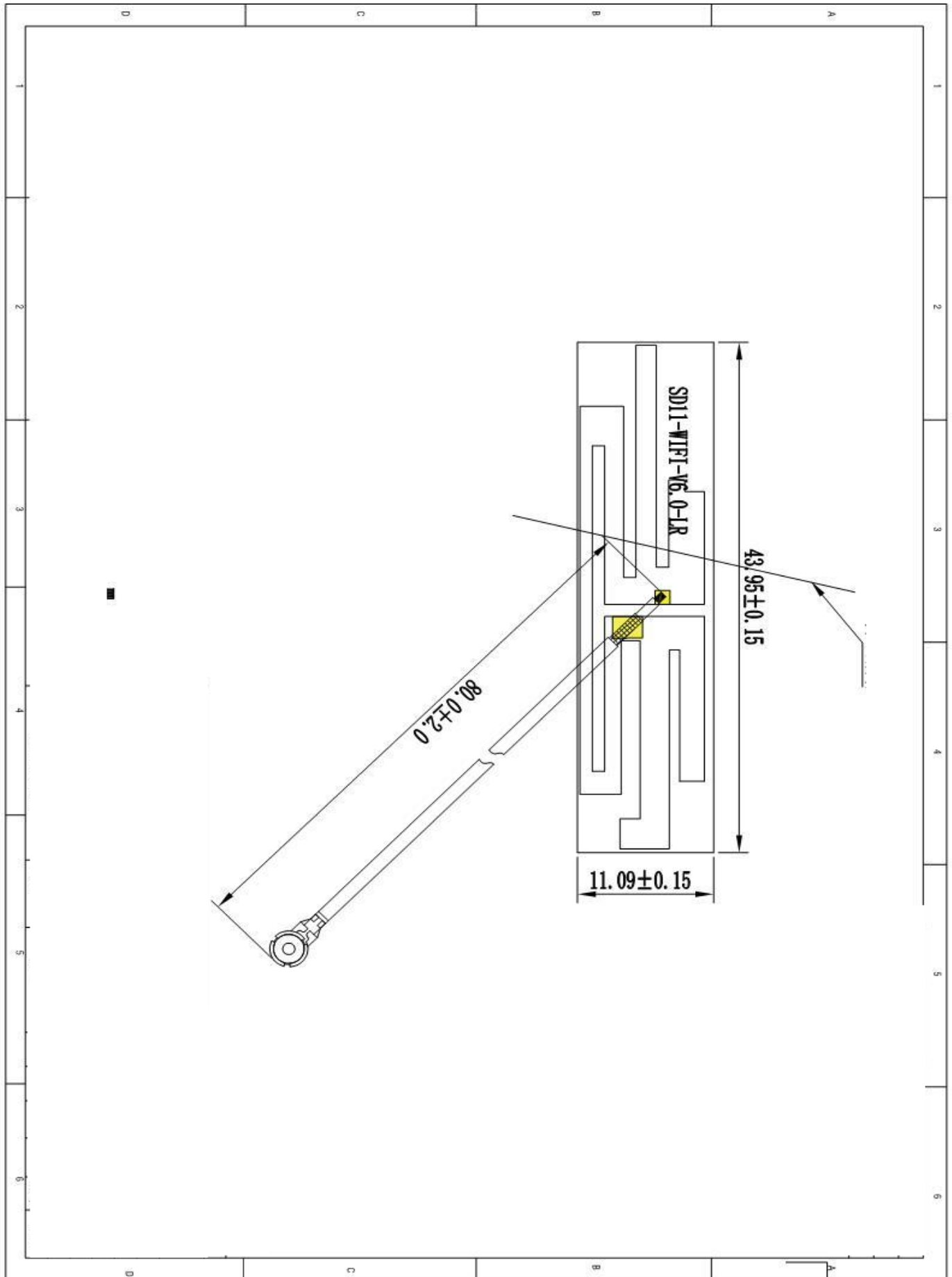
2470	3.9	66.1	5500	4.9	60.0
2480	3.8	67.1	5520	4.7	58.2
2490	3.9	68.2	5540	4.8	59.2
2500	3.8	67.7	5560	5.1	62.7
5100	4.3	59.4	5580	5.0	62.7
5120	4.2	58.5	5600	4.9	63.1
5140	4.3	58.6	5620	4.7	61.3
5160	4.5	60.3	5640	4.3	58.9
5180	4.4	58.2	5660	4.2	57.6
5200	4.5	60.0	5680	4.3	58.5
5220	4.6	61.7	5700	4.2	57.5
5240	4.5	60.1	5720	5.1	57.0
5260	4.5	59.7	5740	3.9	54.8
5280	4.6	60.6	5760	3.9	57.0
5300	4.6	59.6	5780	3.9	56.5
5320	4.4	57.6	5800	3.8	56.1
5340	4.7	61.1			

4、 Environmental treatment

Antenna mounting diagram



5、Mechanical Dimension Drawing



6. 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



纸箱用胶带封口

Carton sealing with duct tape



包装箱整箱外观 ()

Cases appearance