样品承认书

Confirmation of products

客户名称 Customer	CND Electronic Technology (shenzhen) Co.,Ltd				
项目名称 Project Name	C6	版本 Version	A.1	日期 Date	2023-11-13
项目料号 Project NO.	26.03.01.001	客户料号 Customer NO.			
频段 Frequency Range	2400~2500MHz/5100~5800MHz	备注 Notes	/		
设计 Designed By	/				
审核 Approved By	/				

设计单位：深圳市林荣科技有限公司

Designer：SHENZHEN 3GTX ANTENNA TECHNOLOGY CO.,LTD.

地　　址：深圳市龙华区大浪街道华荣路联建工业园 A1 栋

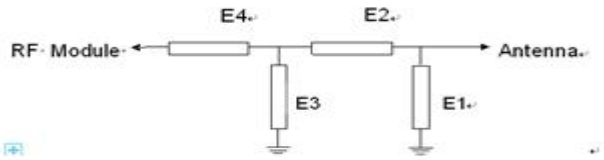
Building 1, 3 floors, Huarong Road, Dalang Street, Longhua District, Shenzhen

Index

1、Specification

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ----WIFI　　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

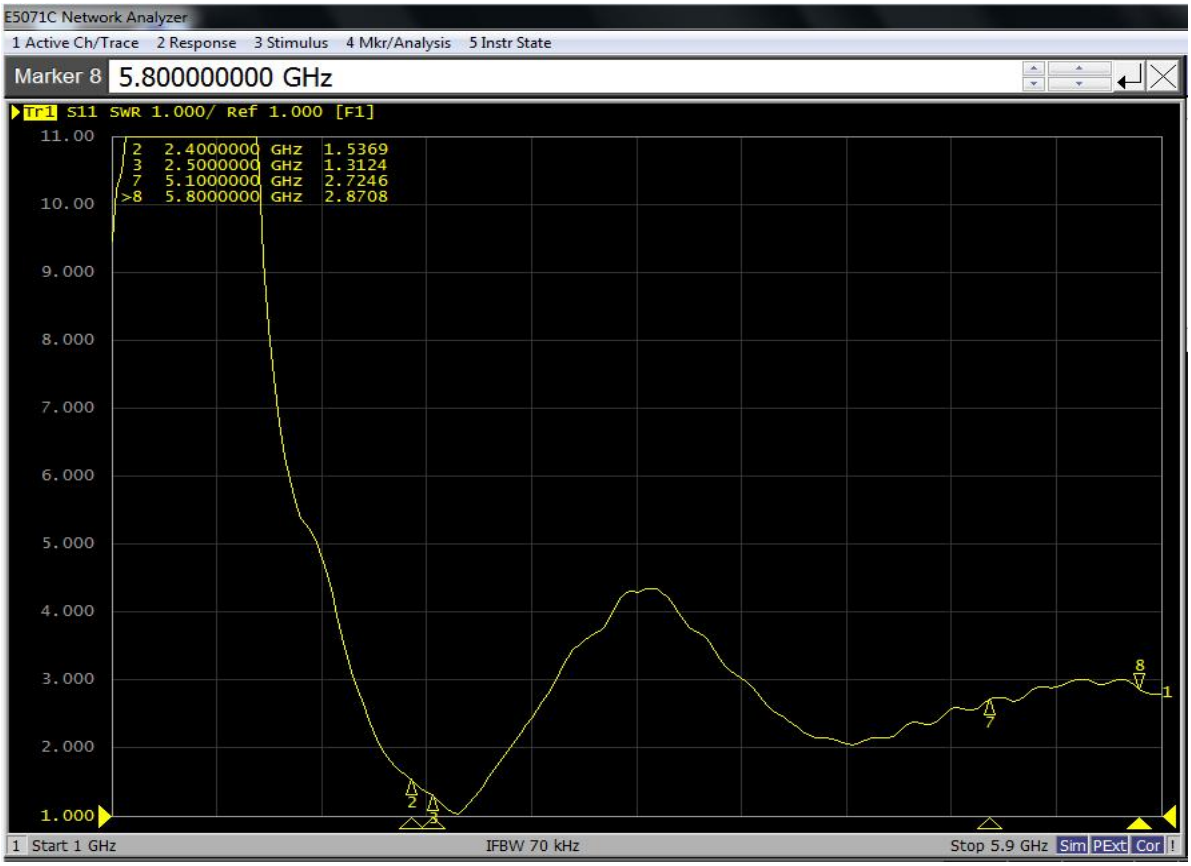
The **Return Loss** testing devices are connected in sequence: Agilent5071C Network Analyzer →Testing Cable → Customer-providing　Devices.

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

WIFI　VSWR				
Frequency (MHz)	2400	2500	5100	5800
VSWR	1.53	1.31	2.72	2.87

3.3 Testing data



WIFI antenna VSWR

4、 Power、Sensiticity 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

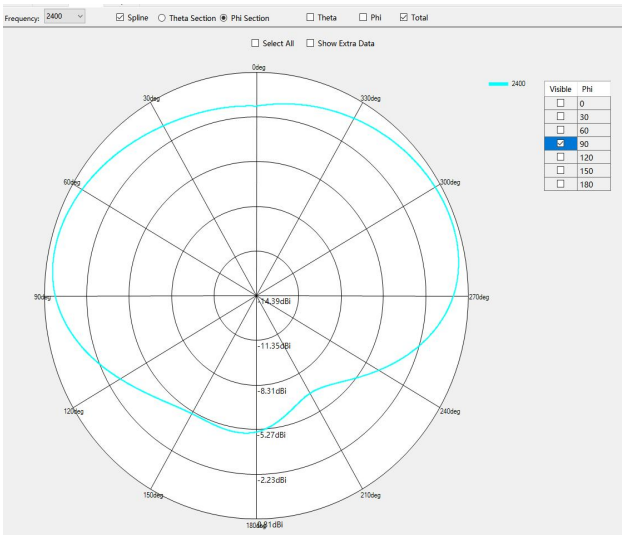
The following table indicates the testing results related to Power and Sensitivity in Microwave Anechoic Chamber，concerning the relative diagram.

4.3 Active testing.

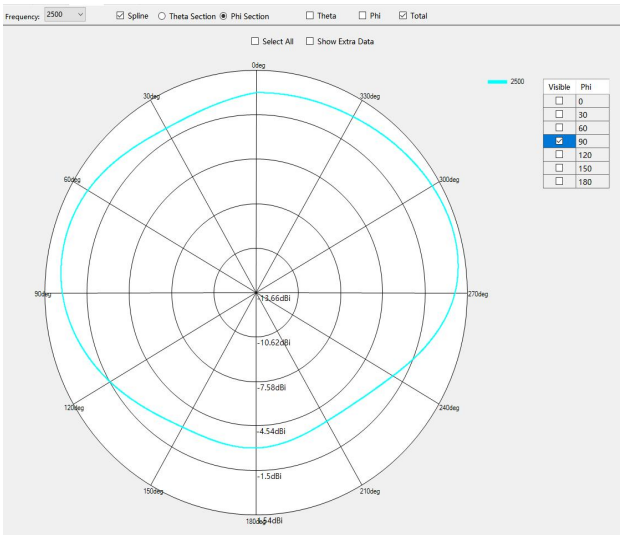
WIFI 天线无源效率：

Freq(MHz)	Gain	Efficiency(%)	Freq(MHz)	Gain	Efficiency(%)
2400	0.8	56.54	5360	3.0	54.92
2410	0.7	57.49	5380	3.1	54.88
2420	0.8	59.80	5400	2.6	53.05
2430	0.9	61.34	5420	2.7	55.93
2440	1.2	62.89	5440	2.5	55.10
2450	0.9	61.10	5460	2.5	55.11
2460	0.9	61.93	5480	2.5	53.84

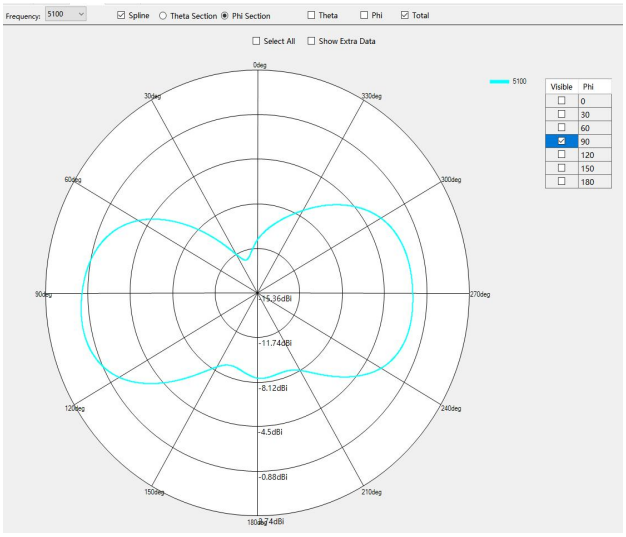
2470	1.1	62.66	5500	2.5	52.55
2480	1.4	64.87	5520	2.0	50.17
2490	1.2	66.38	5540	2.0	51.65
2500	1.4	68.55	5560	1.7	54.05
5100	2.5	47.73	5580	1.3	51.09
5120	2.7	50.77	5600	1.2	52.53
5140	2.7	51.00	5620	1.2	49.44
5160	2.6	50.39	5640	1.2	51.10
5180	2.7	50.98	5660	1.3	51.72
5200	2.8	51.01	5680	0.7	50.82
5220	2.7	51.94	5700	0.6	48.82
5240	2.8	52.53	5720	0.4	50.08
5260	2.9	52.40	5740	-0.1	45.36
5280	3.0	52.53	5760	0.0	46.88
5300	3.1	53.76	5780	0.2	49.64
5320	2.9	51.99	5800	0.1	49.23
5340	3.2	54.50			



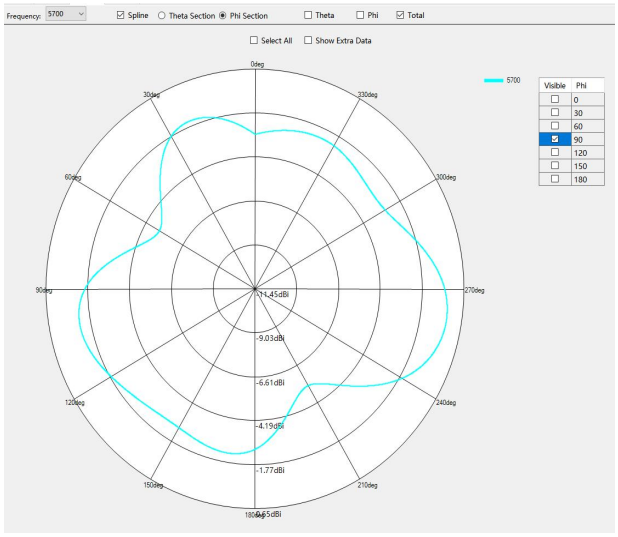
2400MHz



2500MHz



5100MHz



5700MHz

WIIF 天线有源数据：

WIFI			
11b-11M	1	16.32	
	6	16.21	
	11	16.19	-87.52
11a-54M	36	15.02	
	100	15.12	
	149	14.21	
	161	13.25	-70.35
11g-54M	1	15.84	
	6	15.86	
	11	15.69	77.68
11n-65M	1	15.23	
	6	15.34	
	11	15.32	76.85

5、Environmental treatment

The environmental treatment is as follows

6、Mechanical Dimension Drawing