

产品承认书 PART SPECIFICATION

料号 PART NO. : W7-3000YK-ZT02

物料描述 PART DESCRIBE: 5.8G-WIFI 天线 L:300MM

机型名称 MODEL NO. : 天线

客户签核栏 CUSTOMER SIGNATURE

概特力（东莞）科技有限公司

GTL (Dongguan) Electric Technology Co., Ltd

研发 (RD SIGNATURE)	研发审核 VERIFY

供应商签核栏 SUPPLIER SIGNATURE

XXXXXXXXXX

业务部 (SALES)	品质部 (QC)	产品开发部 (RD)

Project:		Author:Wang	File Name: 5G 天线
Date: 2023-05-26			
TEST:	Language:	Check: Zhong	
A	English		
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Revision History

Date	Revision	Description of Changes
2023-05-26	RA	Measured with SUS301 sample.

错误！未定义书签。

5G 天线 PROJECT 错误！未定义书签。

ANTENNA COMPONENTST 错误！未定义书签。

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1 Technical Summary

This report summarizes the electrical results of the proposed antenna to support the **5G 天线** program. We test the antenna with the latest version handset. And it seems to be acceptable.

2 General Description

2.1 Components/Part revisions

VSWR: Voltage Standing Wave Rate.

3 Mechanical Description

4 Electrical Performance

4.1 Set-up

4.1.1 VSWR

VSWR measurements (S11) were performed using an Agilent 8753D Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

4.1.2 Gain & Radiation Patterns

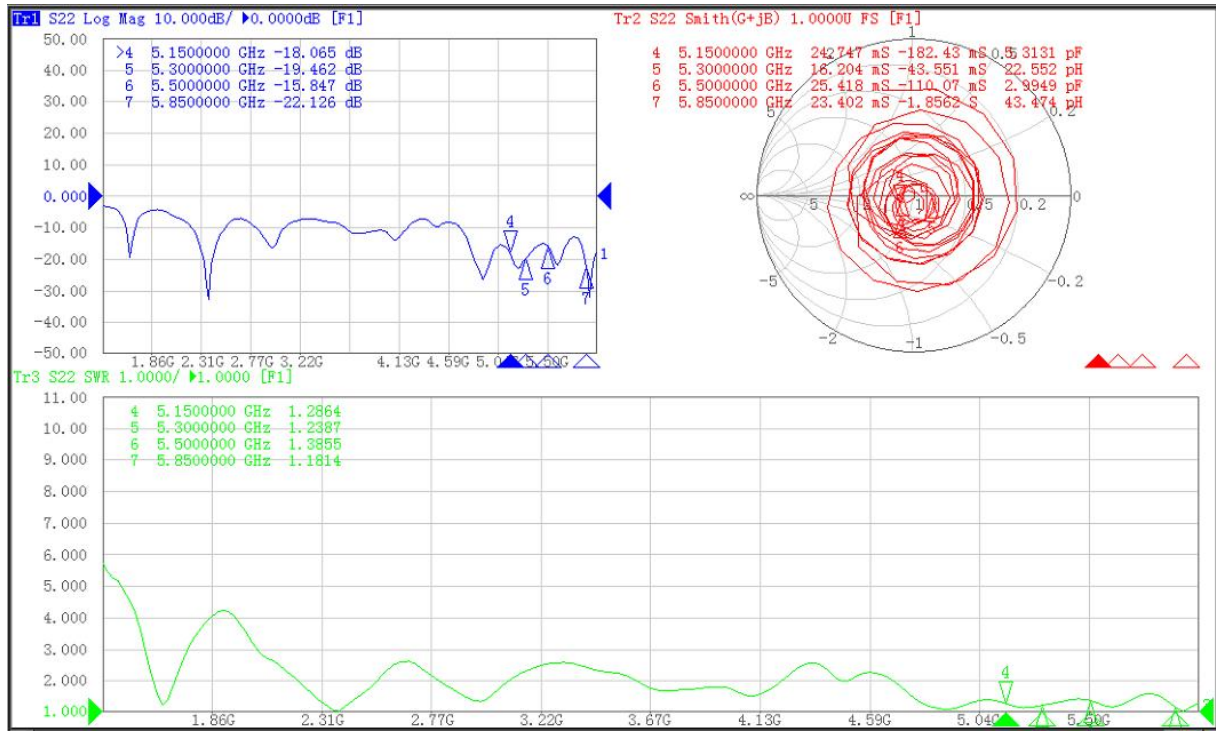
The gain of the antenna was measured in the Lxc's anechoic chamber. Coaxial chokes on the feed cable were used to mitigate surface currents. The chamber provides less than -30 dB reflectivity from 800 MHz through 3 GHz and an 18" diameter spherical quiet zone. The measurement results are calibrated using both dipole and leaky wave horn standards.

4.1.3 Matching Circuit Description

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4.2 Measurement Data

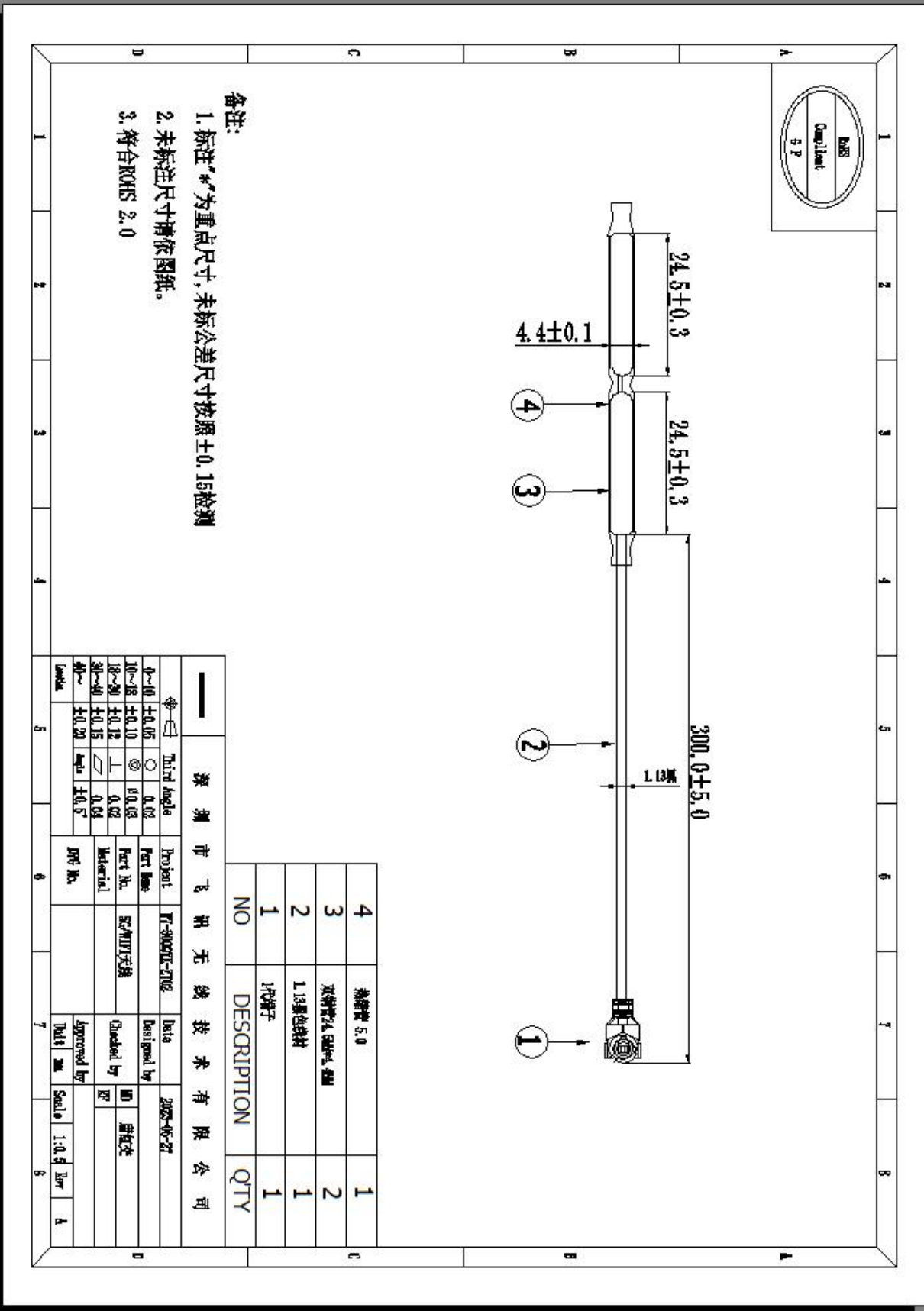
4.2.1 Active result (5.8GWIFI)



Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5150	62.53	-2.04	4.57	2.42	28.869	33.661	4.57	-26	59.31	58.15
5200	58.53	-2.33	4.87	2.72	27.175	31.352	4.87	-18.69	59.54	58.32
5250	40.1	-3.97	3.39	1.24	18.399	21.704	3.39	-19.79	58.75	57.3
5300	41.51	-3.82	2.99	0.84	19.762	21.752	2.99	-18.91	58.29	56.79
5350	50.54	-2.96	3.89	1.74	24.279	26.262	3.89	-15.94	59.98	58.48
5400	68.07	-1.67	4.8	2.65	32.898	35.175	4.8	-19.85	59.93	58.53
5450	60.8	-2.16	4.49	2.34	29.687	31.117	4.49	-18.86	59.5	58.14
5500	56.04	-2.52	3.78	1.63	27.926	28.112	3.78	-17.41	60.21	58.94
5550	61.5	-2.11	4.54	2.39	30.681	30.822	4.54	-19.48	61.46	59.44
5600	66.12	-1.8	4.71	2.56	34.379	31.744	4.71	-21.67	61.91	59.98
5650	71.99	-1.43	5.23	3.08	36.56	35.427	5.23	-25.36	61.98	60.21
5700	65.92	-1.81	5.5	3.35	33.039	32.876	5.5	-20.59	62.03	60.67
5750	69.39	-1.59	4.39	2.24	35.511	33.883	4.39	-21.23	61.76	60.48
5800	70.7	-1.51	3.4	1.25	36.043	34.656	3.4	-15.88	61.58	60.04
5850	70.7	-1.51	3.06	0.91	35.414	35.283	3.06	-15.92	62.21	60.78

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6 Mechanical drawing



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7 Reliability tests

7.1 Test content

No	试验项目	试验方法	判定基准
1	盐水喷雾试验	把盐浓度 5%的溶液喷雾 48HR	不能有变色, 歪 (变形) 脱落等的缺点 腐蚀面积不能过大

7.2 Test results

NO	样品数	试验期间	实验结果	备注
1	50	24 小时	OK	技术等级为 9 级 腐蚀<0.4mm
2	50	48 小时	OK	技术等级为 9 级 腐蚀<0.4mm

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Conclusion

From the above test results, we can know the electrical performance of the antenna is seems good.

Shenzhen Lxc Electronics Technology Co ., Ltd ,look forward to your confirmation, thank you for your cooperation !

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