

深圳南硅科技有限公司

SPECIFICATION FOR APPROVAL

承認書

Customer Name	赛多米
Product name	无线投屏盒天线，RF0.81 黑色单银线 L=39mm,P2 端打 4 代端子
Product number	YY-20260305-02
Prepared By	Tony-Men
Checked By	
Approved By	
Apply Date	2026 年 3 月 5 日

CUSTOMERSIGNATURE		
Prepared By	Checked By	Approved By
PLEASE RETURN TOUSONE COPYOF”SPECIFICATION FOR APPROVAL”WITHYOUR APPROVEDSIGNATURES.		

Shenzhen Nangui Technology Co., Ltd.

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Bao'an District, Shenzhen City, China

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FPC 贴上机器

频率范围 Frequencyrange	5150~ 5250MHz
增益 Gain	3.99 dBi/Max@5150 ~ 5250MHz
驻波比系数 VSWR	2.0/Max@5150 ~ 5250MHz
输入阻抗 InputImpedance	50±5 (Ω)
极化方式 Polarization	垂直极化 Vertical Polarization
半功率波束 (3dB) HPW	180°H-plane 120°E-plane

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Revision History

Date	Revision	Description of Changes
2026-3-5	RA	Measured with 5GHz antenna sample.

1 Technical Summary

This report summarizes the electrical results of the proposed antenna to support the 5GHz antenna 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

VSWRmeasurements (S11) were performed using anAgilent 8753D NetworkAnalyzer 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

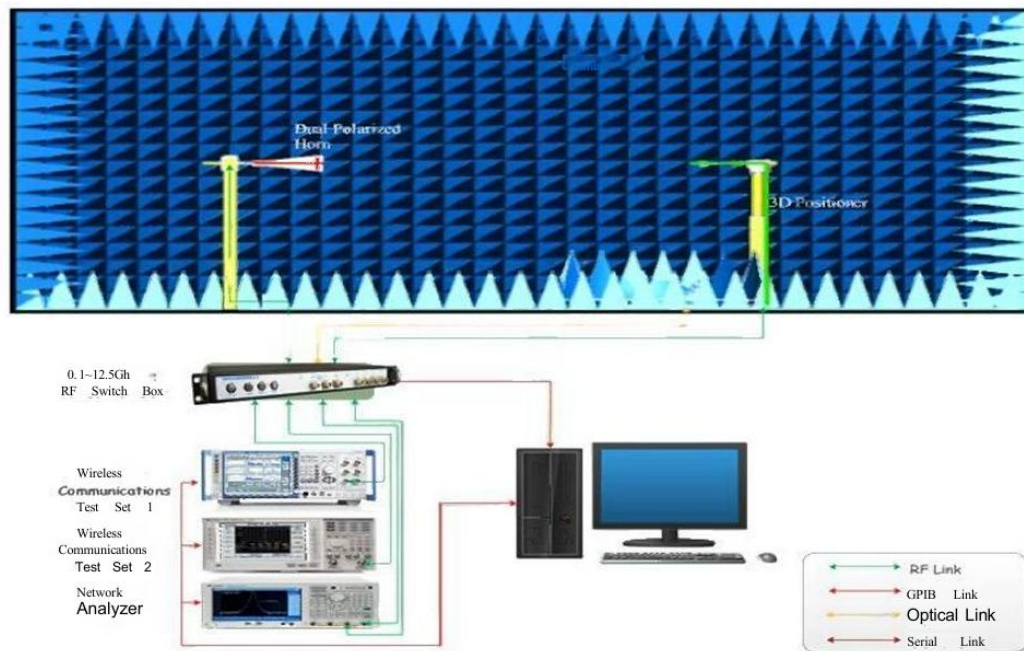
The gain of the antenna was measured in the Lxc's anechoic chamber. Coaxial chokes on the feed cable were used to mitigate surface currents. The chamber provides less than-30 dB reflectivity from 300 MHzthrough 6 GHz and an 18" diameter spherical quite zone. The measurement results are calibrated using both dipole and leaky wave horn standards.

4.1.3 Matching Circuit Description

No changed..

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Facility description Measurement procedure

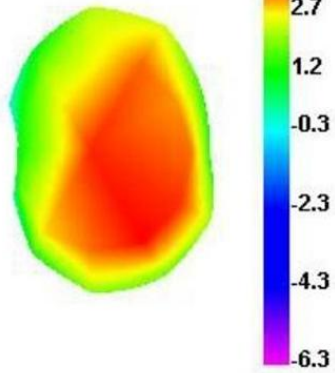


4.2 Antenna- Radiation Pattern Test Data

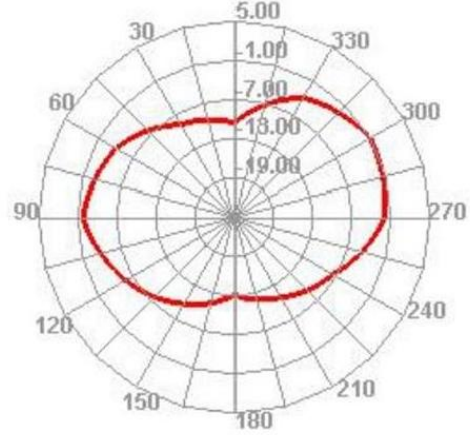
Passive Test For WIFI5.8										
Freg (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)
5150	48.15	-3.17	3.75	1.6	39.084	9.067	3.75	-19.27	6.92	30
5160	48.87	-3.11	3.87	1.72	39.74	9.129	3.87	-19.27	6.98	30
5170	48.23	-3.17	3.77	1.62	39.156	9.078	3.77	-20.17	6.94	30
5180	47.33	-3.25	3.58	1.43	38.528	8.806	3.58	-19.46	6.83	30
5190	45.88	-3.38	3.58	1.43	37.429	8.456	3.58	-21.6	6.96	30
5200	45.99	-3.37	3.59	1.44	37.421	8.567	3.59	-21.49	6.97	30
5210	48.26	-3.16	3.78	1.63	39.338	8.92	3.78	-22.46	6.94	30
5220	49.06	-3.09	3.82	1.67	39.993	9.067	3.82	-22.43	6.91	30
5230	50.28	-2.99	3.99	1.84	41.016	9.265	3.99	-21.96	6.98	30
5240	49.47	-3.06	3.85	1.7	40.364	9.106	3.85	-20.89	6.91	30
5250	47.26	-3.25	3.66	1.51	38.572	8.688	3.66	-21.5	6.92	30

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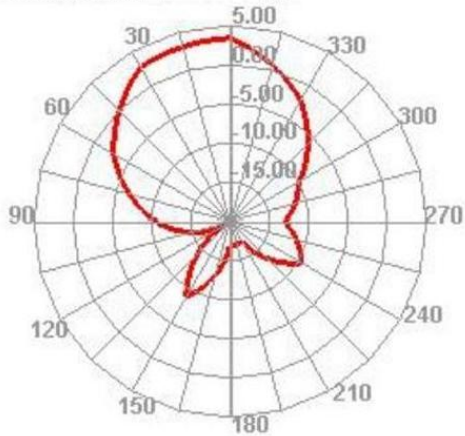
5150.000MHz



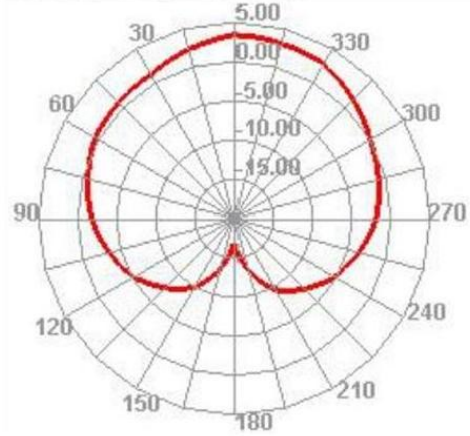
5150.000MHz H



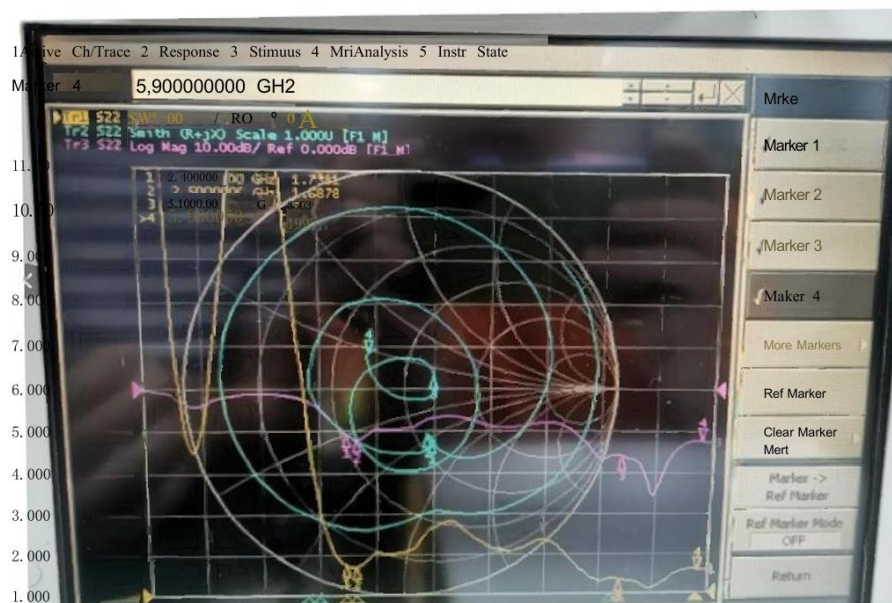
5150.000MHz E1



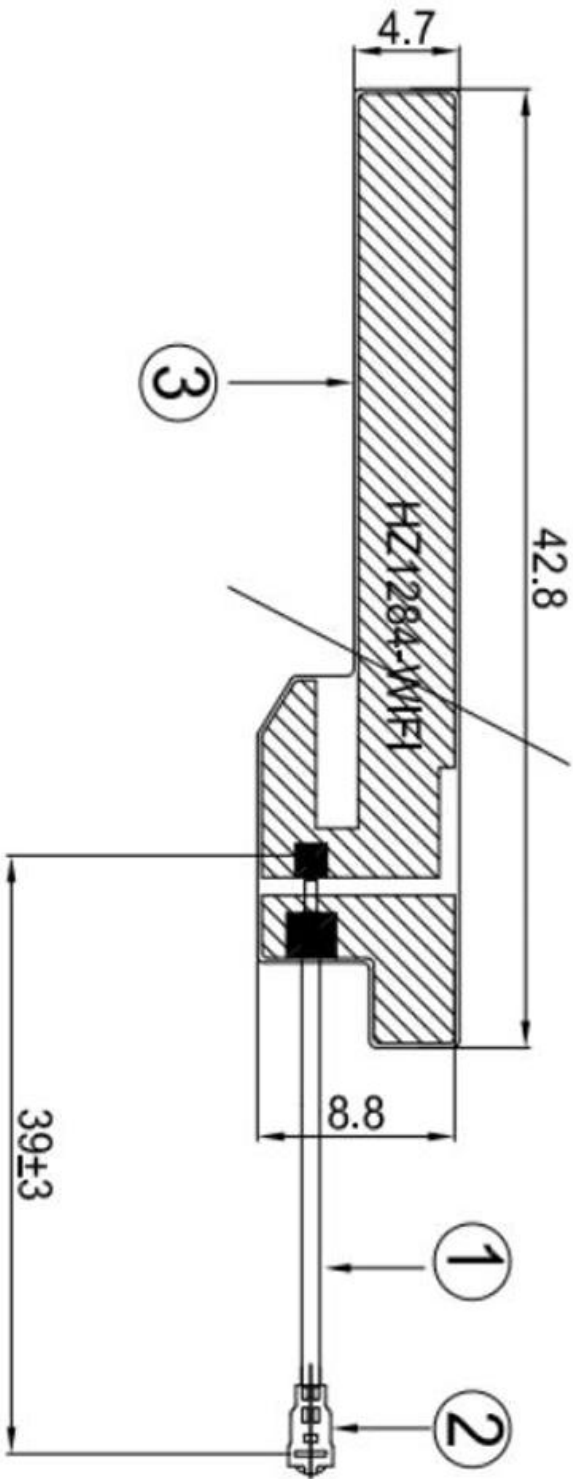
5150.000MHz E2



5.Plots VSWR



6.Mechanical drawing



3	FPC	L42.8*W8.8,表面作黑油	1
2	Connector	IPEX 4代仿厂端子或相当品	1
1	RF Cable	RF0.81 黑色单银线 L= 39mm	1
序号	组装部件	材料规格描述	用量

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7 Reliability tests

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 24HR	不能有变色, 歪 (变形) 脱落 等的缺点 腐蚀面积不能 过大

8 Conclusion

以上数据表明此 5GHz 天线参数均已达标。性能以装机后的实际使用效果为准。

From the above test results, we can know the electrical performance of the antenna is seems good. Shenzhen Yangyue Electronic Communication Technology Co., Ltd, look forward to your confirmation, thank you for your cooperation!