



2023

深圳祥博一科技有限公司

Shenzhen Xiangboyi Technology Co. Ltd

天线测试报告 Antenna report



TEST REPORT

01 客户名称/Customer : 路知音

02 项目名称/Project : W1

03 立项编号/Project NO :

04 工程师/Engineer : 杨小文
电话/Phone : 15820795642

PART 1

测试报告版本/Report version

日期 Date	天线版本 Antenna version	主板版本 PCB version	变更描述 Description of Change
2023-5-8			天线无源测试数据 The Antenna has no passive test data

PART 2

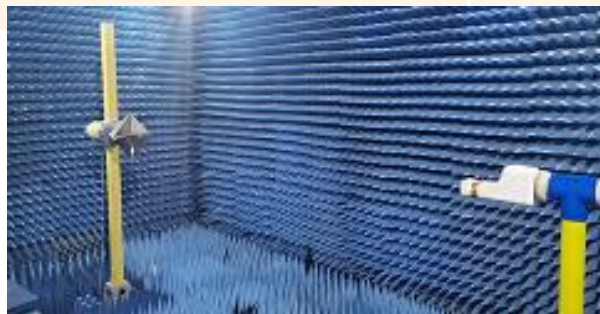
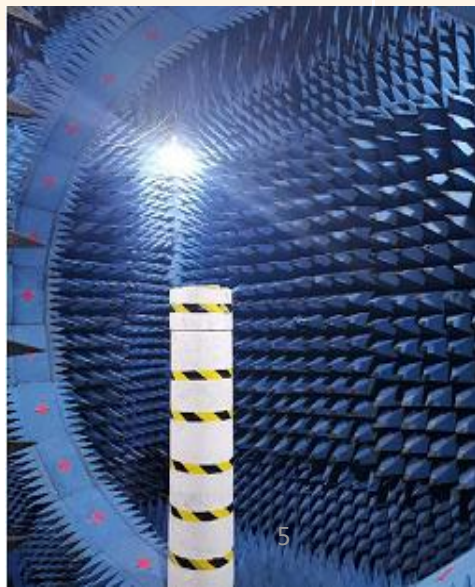
项目信息/Project brief

NO	ITEMS	DETAILS
1	工作频段 Operating band	WIFI:2.4G/5G
2	频率范围 Frequency band	2400-2500Mhz ;5150-5850Mhz
3	天线类型 Antenna type	monopole
4	天线材质及实现形状 Material and implementation shape	板载天线 Onboard antenna

PART 3

Test system and equipment

	测试项目/Test items	设备/equipment
1 : S参数 S parameter	1. 回波损耗 Return loss 2. 驻波比 VSWR	网络分析仪/Network analyzer: A338/A333
2 : 耦合功率测试 Active test		综合测试仪/Comprehensive test instrument: Agilent 8960/ CMW500
3 : 辐射模式与增益 Radiation mode and gain	1. 效率, 增益 Efficiency, gain 2. 辐射模式 radiation mode	1. 暗室/Shielding room : 7x4x3 m (ETS-3D) 2. 网络分析仪/Network analyzer : HP 8753D



天线匹配未做改动。 Antenna match is not changed

2.4G天线效率，增益。2.4G antenna efficiency, and gain

Freq (MHz)	Effi (%)	Gain (dBi)
2400	10.15	-8.15
2450	10.14	-8.51
2500	11.76	-7.03

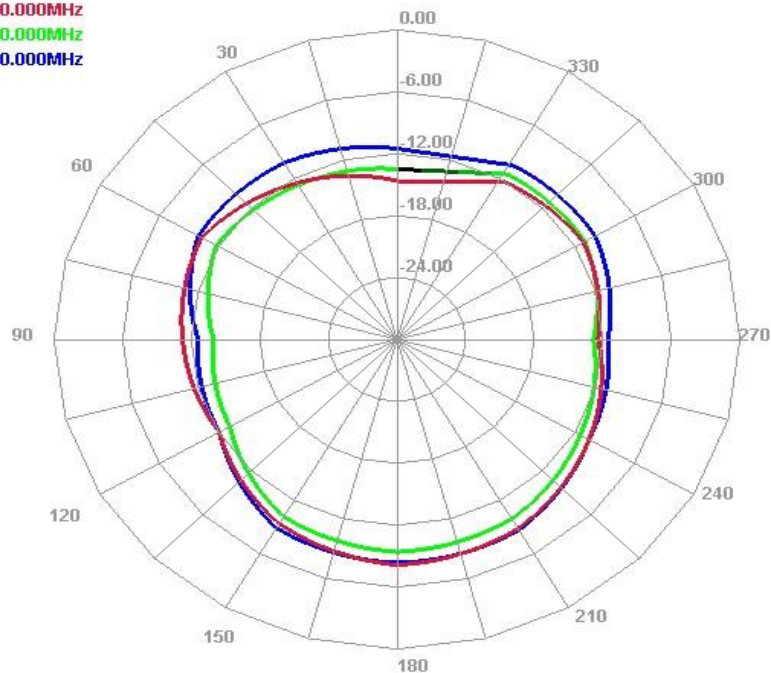
5G天线效率，增益。5G antenna efficiency, and gain

Freq (MHz)	Effi (%)	Gain (dBi)
5150	27.5	-2.36
5250	16.92	-4.59
5350	27.28	-1.79
5450	24.75	-2.04
5550	45.07	1.29
5650	43.56	1.18
5750	37.65	0.5
5850	32.81	-0.64

天线辐射方向图。 radiation pattern

Horizontal

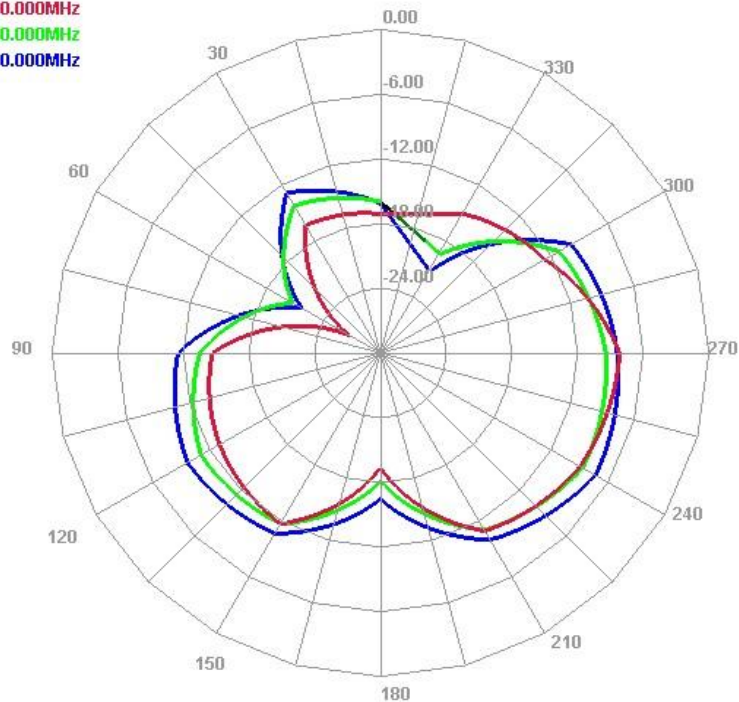
2400.000MHz
2450.000MHz
2500.000MHz



天线辐射方向图。 radiation pattern

E1 Face

2400.000MHz
2450.000MHz
2500.000MHz



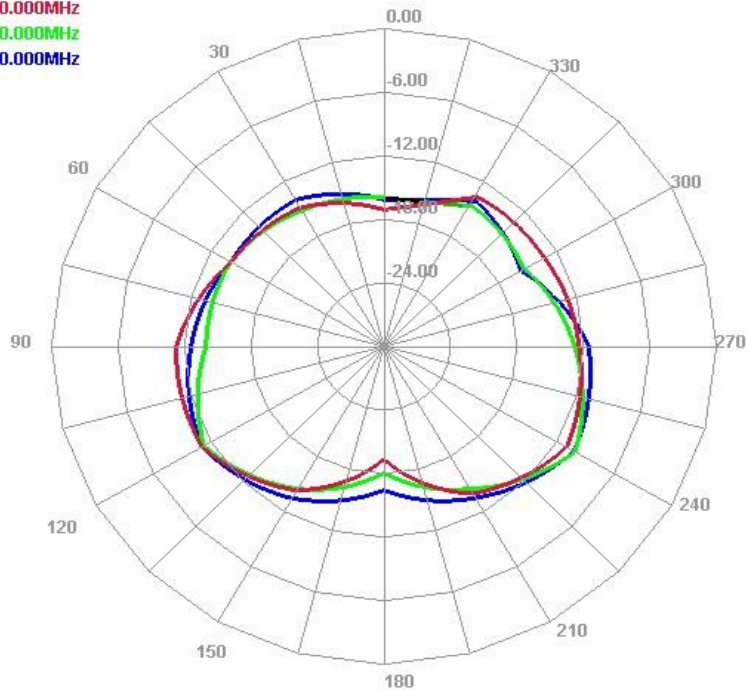
PART 5

测试数据/RFReport

天线辐射方向图。 radiation pattern

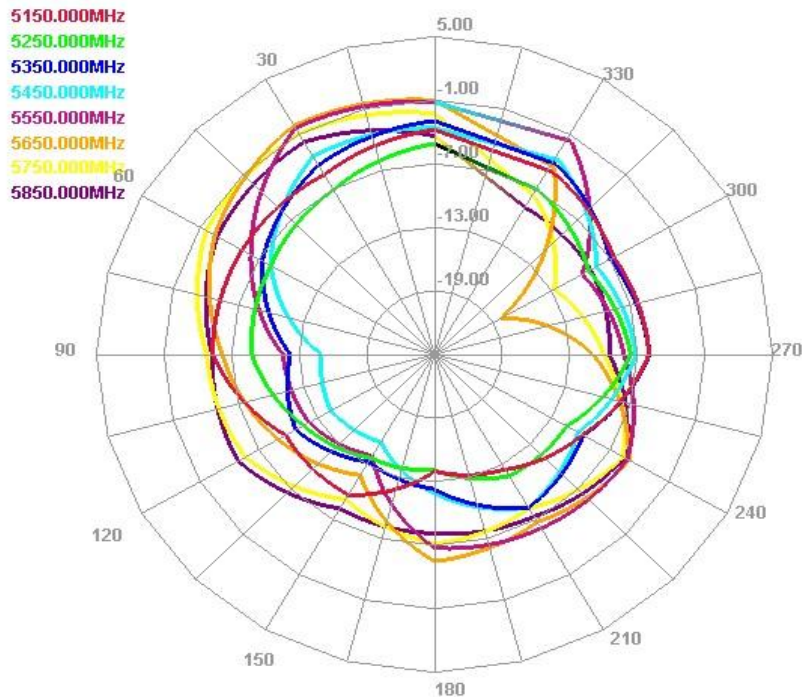
E2 Face

2400.000MHz
2450.000MHz
2500.000MHz



天线辐射方向图。radiation pattern

E1 Face

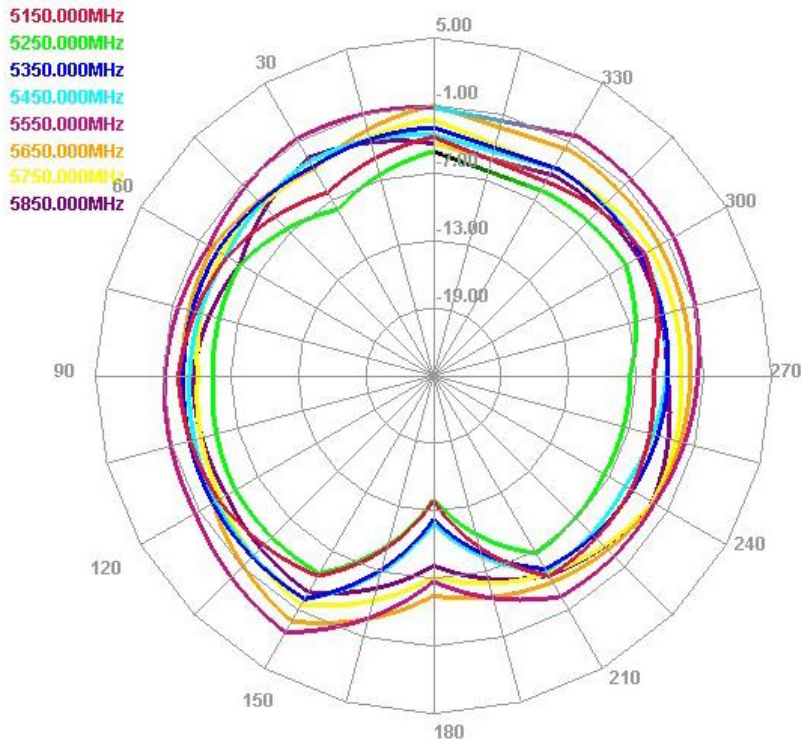


PART 5

测试数据/RFReport

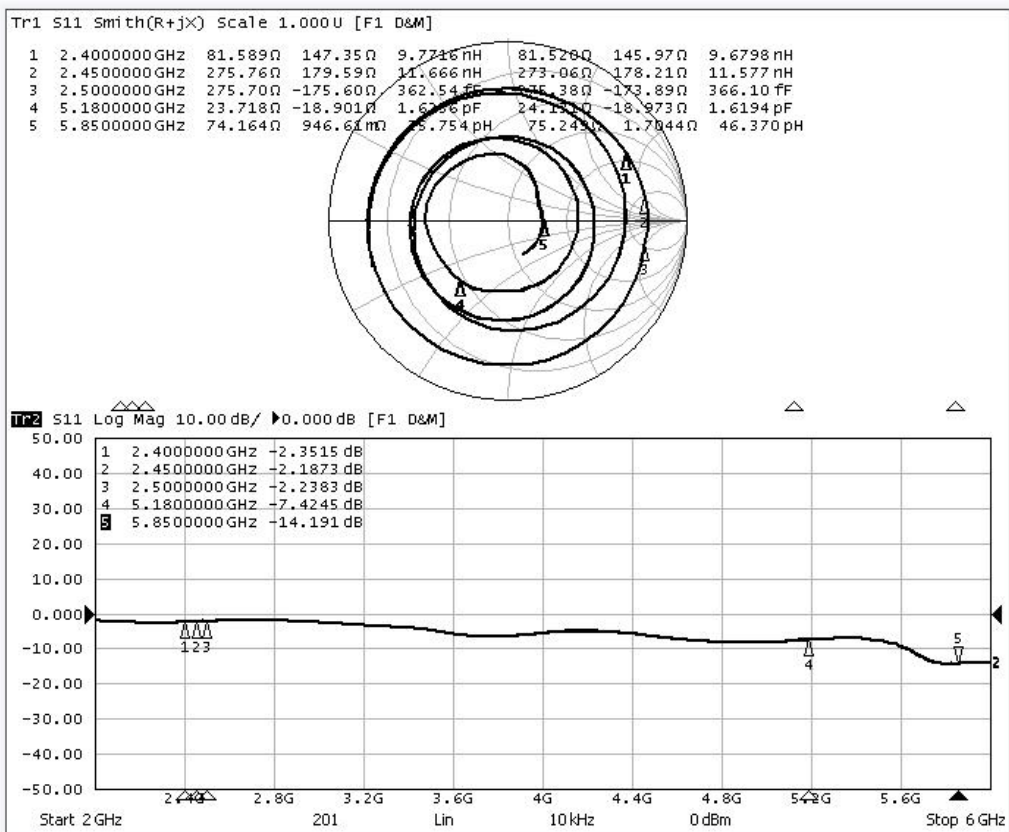
天线辐射方向图。radiation pattern

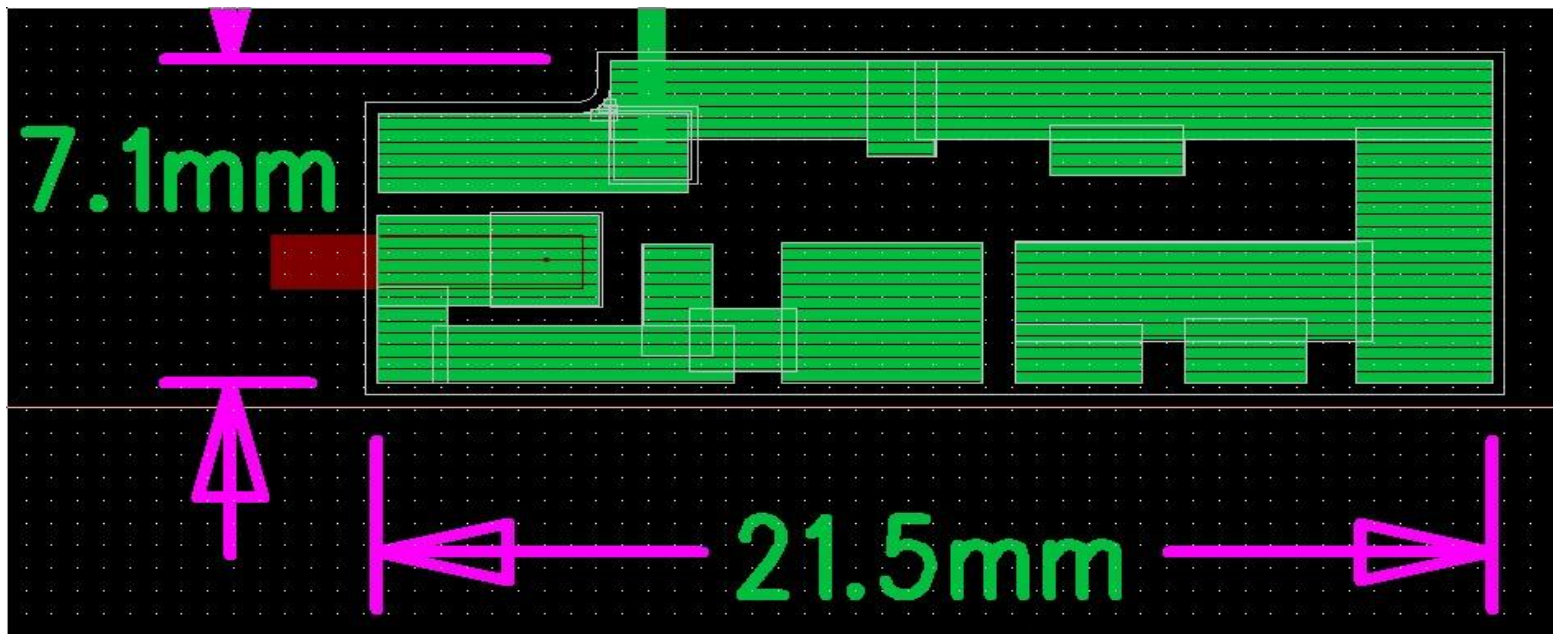
E2 Face



PART 6

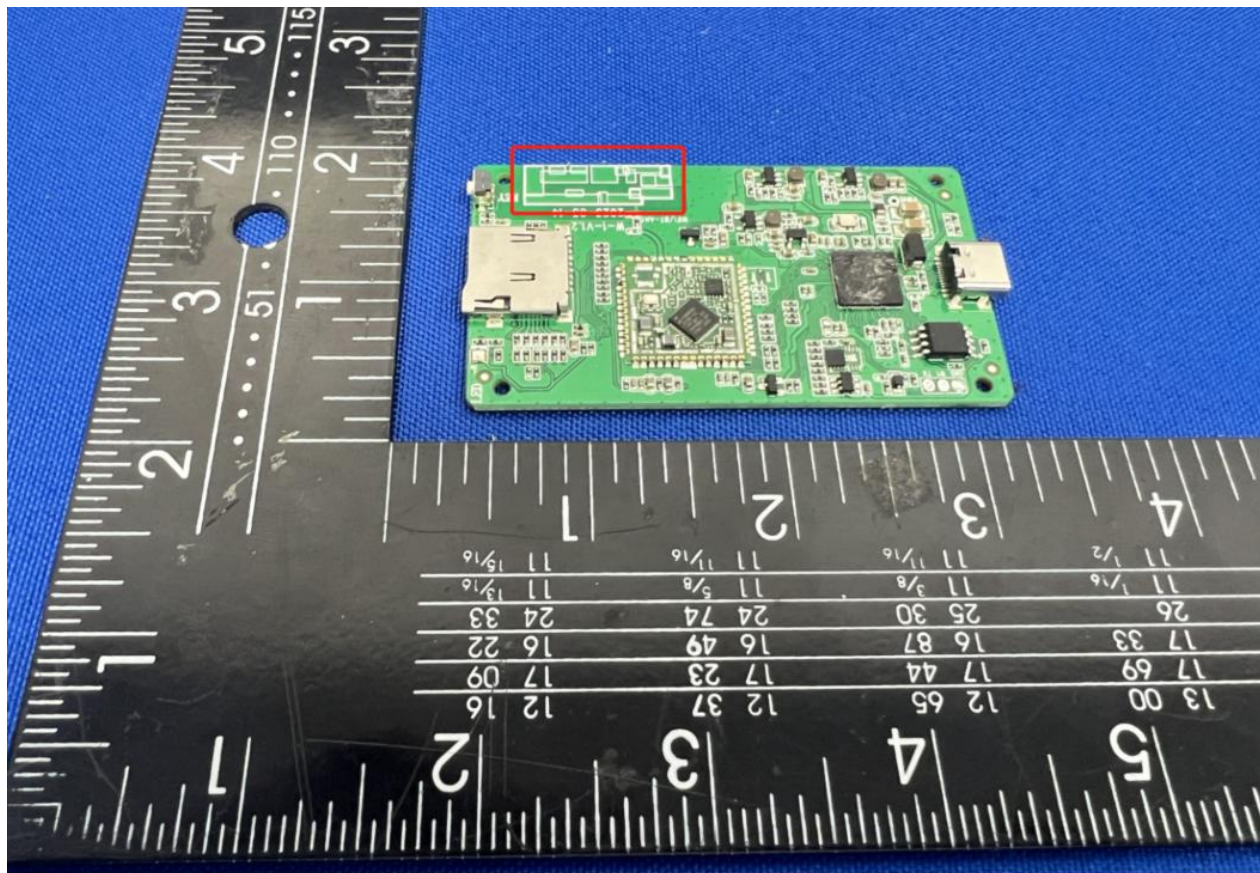
测试数据/RF Report





PART 8

天线图片 Antenna pictures



PART 9

测试整机 Test the machine





2023

Thanks!

Your content to play here, or through your copy, paste in this box, and select only the text. Your content to play here, or through your copy, paste in this box, and select only the text.