



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 :

02 项目名称/Project: 华一精品

03 立项编号/Project NO: XBY210553

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
2023-10-14			样品天线测试数据

PART 2

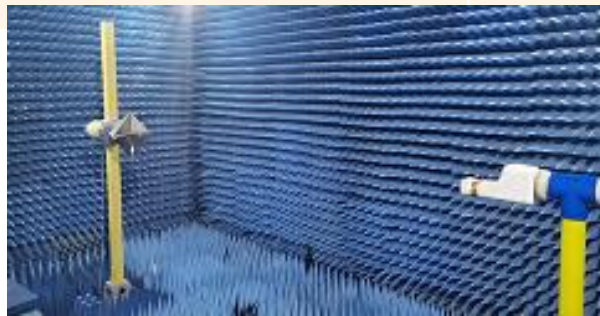
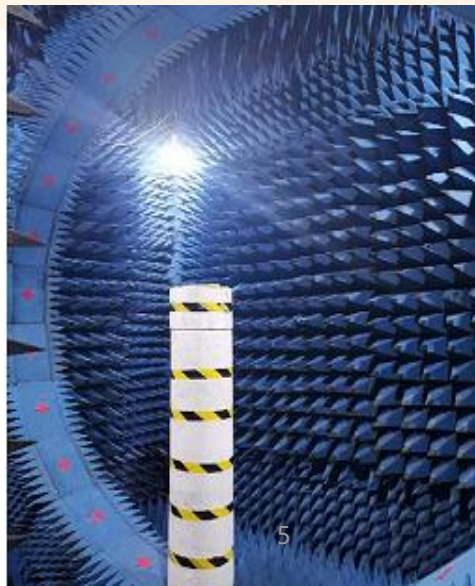
项目信息/Project brief

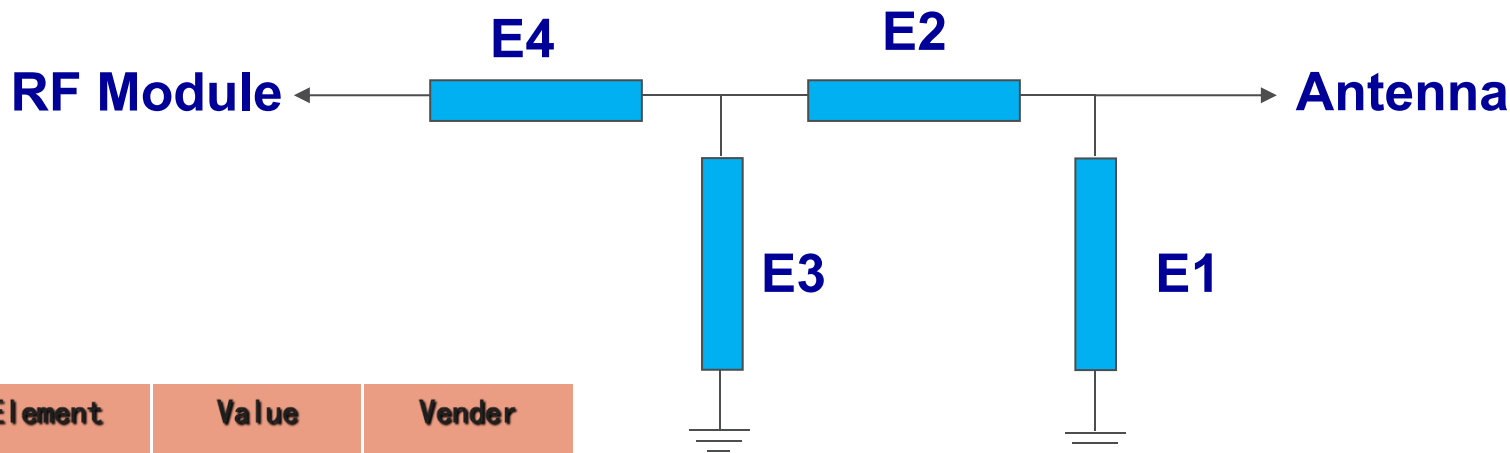
NO	ITEMS	DETAILS
1	工作频段 Operating band	WIFI:2.4G
2	频率范围 Frequency band	WIFI:2400-2500Mhz
3	天线类型 Antenna type	WIFI:PIFA
4	天线材质及实现形状 Material and implementation shape	FPC+焊线

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	1. 发射功率 Transmitting power 2. 接收灵敏度 Receiving sensitivity	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 gain 1. 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





Element	Value	Vender
E1 (0402)	NA	
E2 (0402)	0 0hm	
E3 (0402)	NA	
E4 (0402)	0 0hm	

Original match unchanged.

PART 5

测试数据/RFReport

WIFI BAND	802.11b : 11MBps			802.11g : 54MBps		
Channel	CH1	CH6	CH11	CH1	CH6	CH11
TRP	13.04	13.15	12.43	13.28	13.04	11.96
TIS			-82.6			-70.67

WIFI BAND	802.11n : MCS7					
Channel	CH1	CH6	CH11			
TRP	11.35	11.64	10.04			
TIS			-70.74			

PART 5

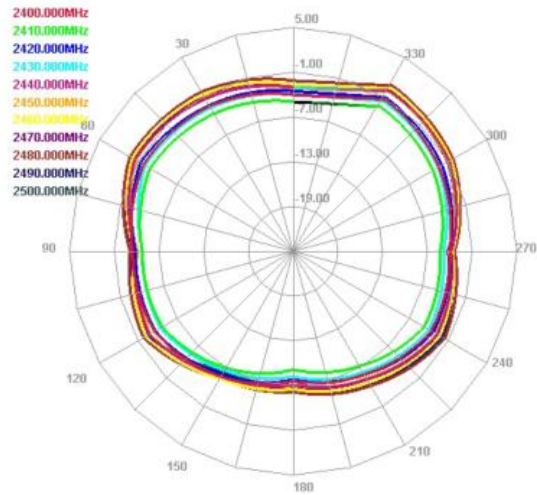
测试数据/RFReport

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.70	2.45	2.45	2.58	3.00	2.46	2.89	2.99	2.76	2.42	2.31
Efficiency (%)	49.45	50.27	50.52	50.78	50.29	51.09	52.22	51.99	50.42	49.80	49.29

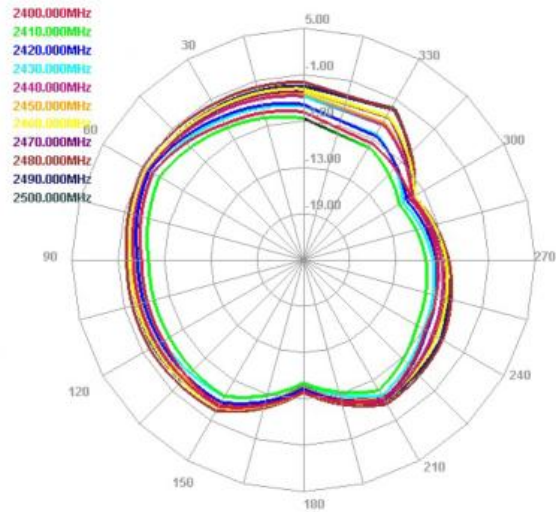
PART 5

测试数据/RFReport

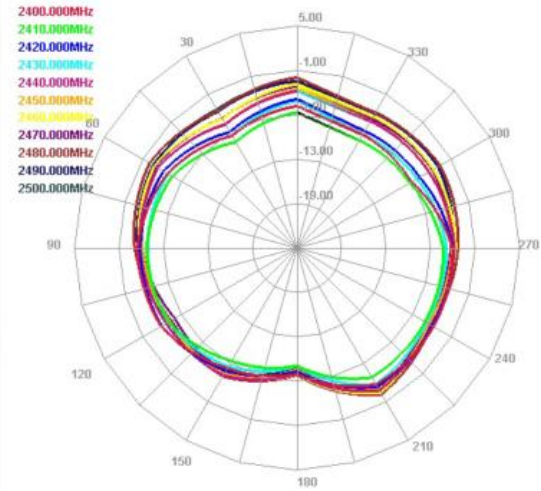
Horizontal



E1 Face



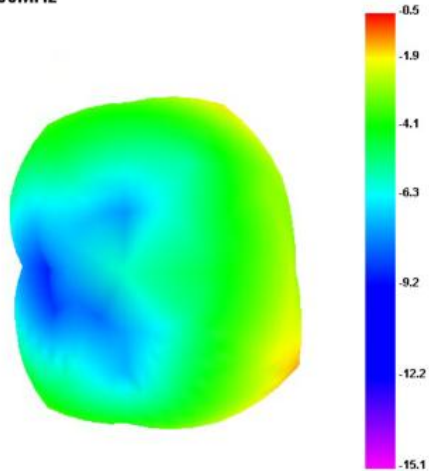
E2 Face



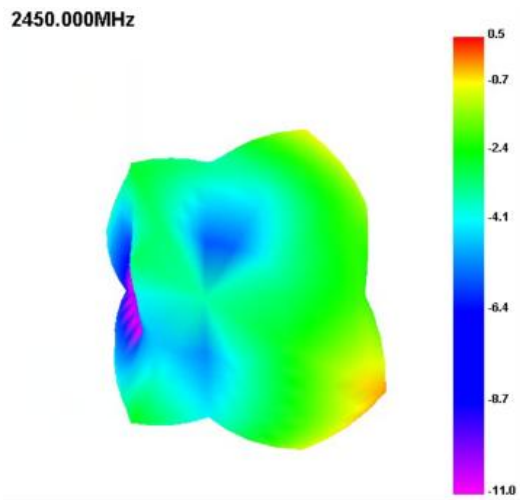
PART 5

测试数据/RFReport

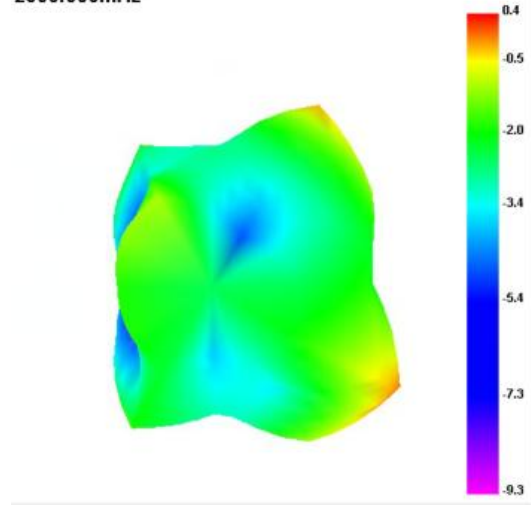
2400.000MHz



2450.000MHz

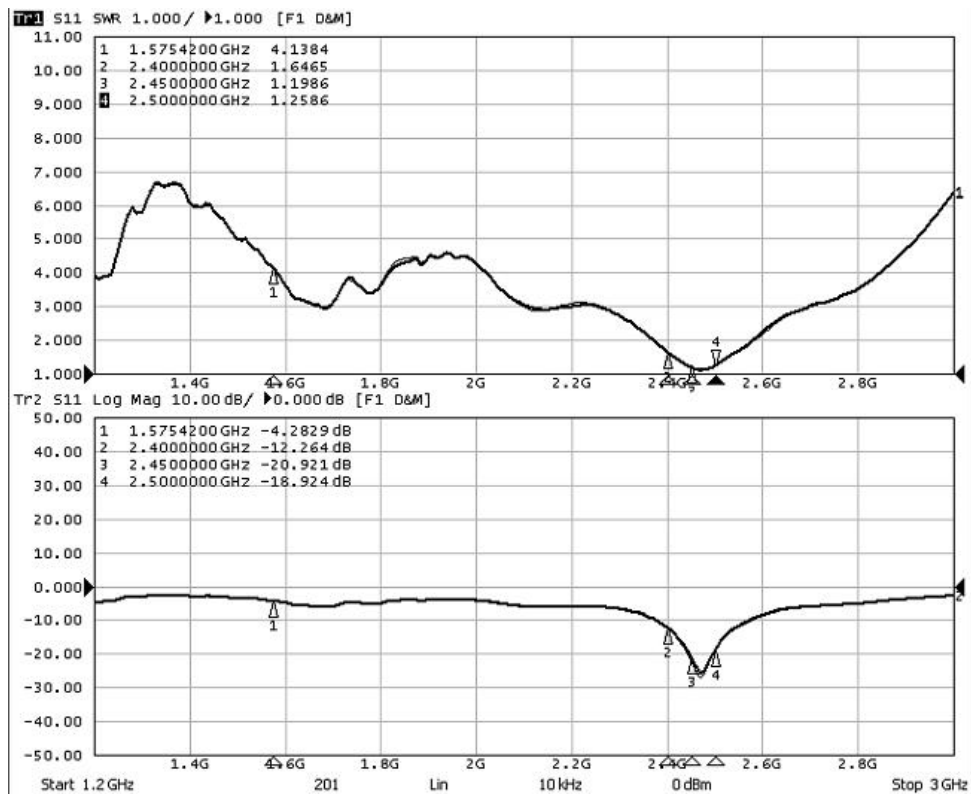


2500.000MHz



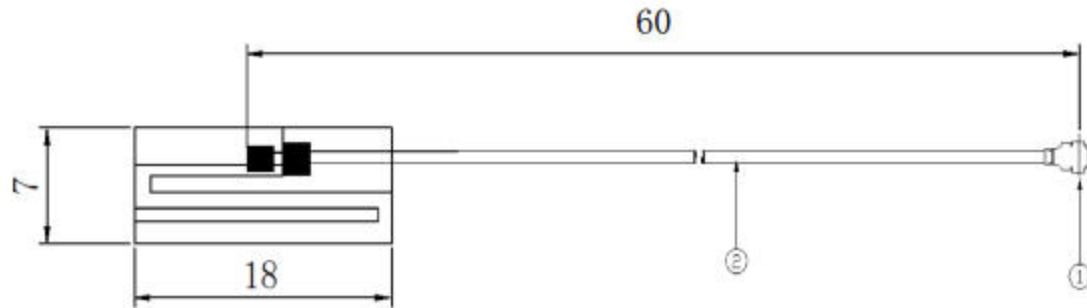
PART 6

测试数据/RFReport



PART 9

Antenna Dimensions





2023

Thanks!

Shenzhen Xiangboyi Technology Co., Ltd

1st Floor, Building 2, Haochuang Longhua Industrial Park, No. 95 Yousong Road, Fukang Community,
Longhua Street, Longhua District, Shenzhen, China

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