



2024

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：沸石

02 项目名称/Project：D22

03 立项编号/Project NO：XBY230497

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
2023-12-08		国内全网通版本	样品天线测试数据
2023-12-09		国内全网通版本	增加2G/3G测试数据
2024-8-05		国内全网通版本	机子更改物料共用天线测试数据

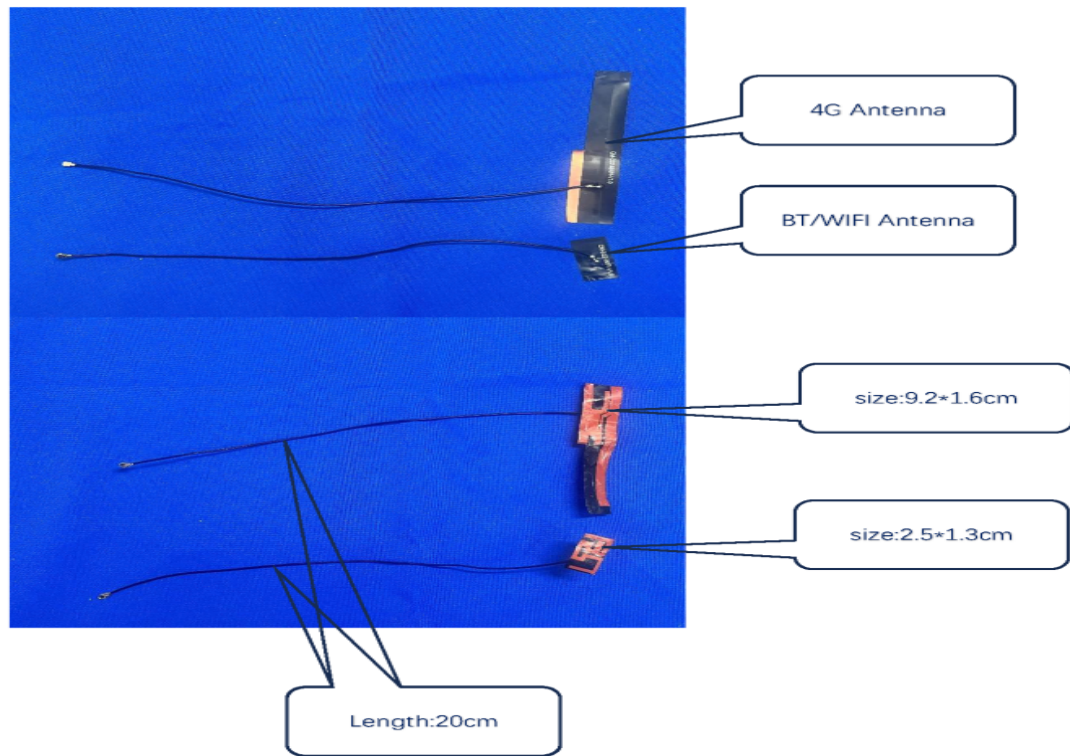
PART 2

项目信息/Project brief

NO	ITEMS	DETAILS
1	工作频段 Operating band	WCDMA:B2/B5 LTE:B2/B4/B5/B12/B66 BT:2.4G WIFI:2.4G 5.1G
2	频率范围 Frequency band	WCDMA B2:1850-1910MHz B5:824-849MHz LTE B2:1850-1910MHz B4:1710-1755MHz B5:824-849MHz LTE B12:699-716MHz B66:1710-1780MHz BT:2402-2480MHz WIFI:2412-262MHz 5180-5240MHz
3	天线类型 Antenna type	MAIN: monopole
4	天线材质及实现形状 Material and implementation shape	FPC+焊线 FPC welding wire

PART 2

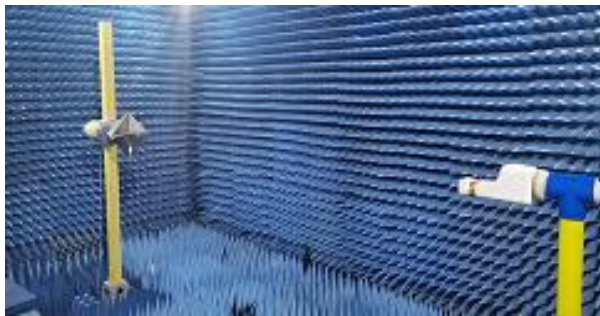
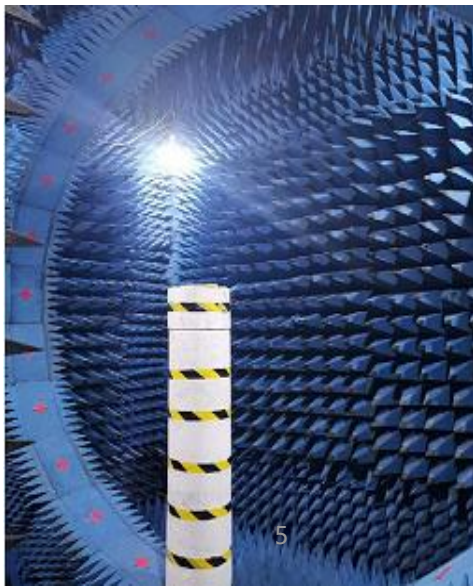
项目信息/Project brief

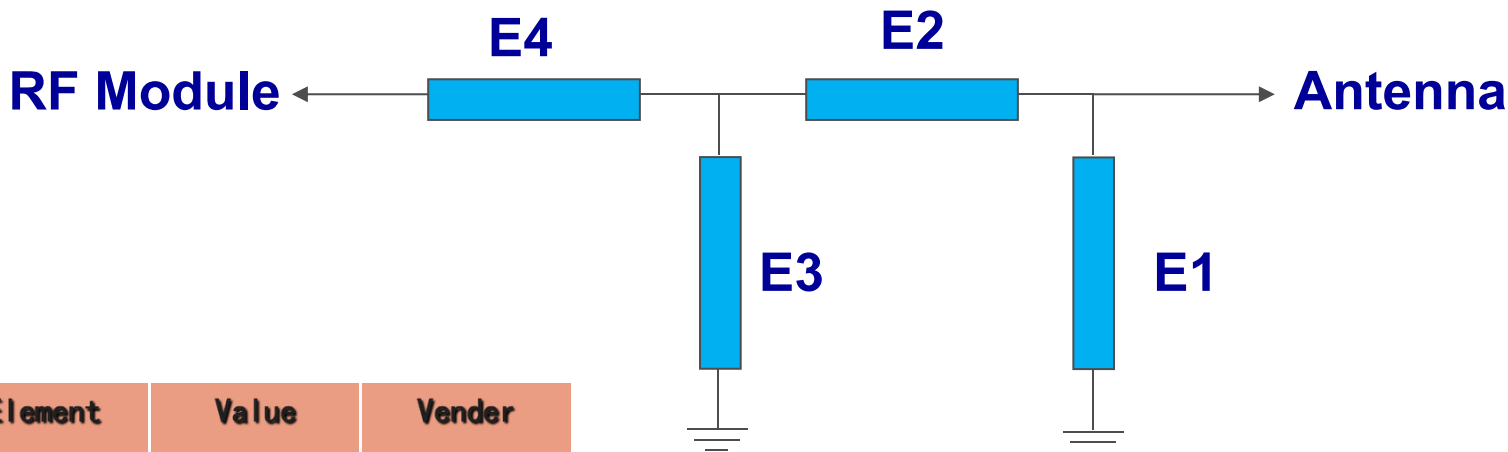


PART 3

Test system and equipment

	测试项目/Test items	设备/equipment
1: S参数 S parameter		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. 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.

GSM BAND	EGSM850			DCS1900		
Channel	L	M	H	L	M	H
TRP	26.89	28.13	27.54	25.43	25.84	24.69
Gain(dBi)	-3.27	-2.89	-3.97	1.31	1.30	1.27

WCDMA BAND	WCDMA-B2			WCDMA-B5		
Channel	L	M	H	L	M	H
TRP	18.53	18.42	17.94	17.14	17.69	17.43
Gain(dBi)	1.27	1.31	1.29	-3.54	-2.89	-3.65

LTE BAND	LTE-B1			LTE-B2		
Channel	L	M	H	L	M	H
TRP	18.51	18.09	17.68	18.43	17.12	17.09
Gain(dBi)	1.31	1.30	1.27	1.31	1.30	1.27

LTE BAND	LTE-B4			LTE-B5		
Channel	L	M	H	L	M	H
TRP	16.59	16.84	17.23	17.12	16.48	16.57
Gain(dBi)	1.26	1.31	1.28	-3.54	-2.89	-3.65

LTE BAND	LTE-B8			LTE-B12		
Channel	L	M	H	L	M	H
TRP	16.59	16.44	16.28	18.45	18.17	17.29
Gain(dBi)	-1.87	-1.86	-2.43	-1.59	-1.38	-2.15

LTE BAND	LTE-B40			LTE-B66		
Channel	L	M	H	L	M	H
TRP	17.45	17.94	18.27	17.29	16.84	16.49
Gain(dBi)	1.06	0.95	1.11	1.31	1.30	1.27

PART 5

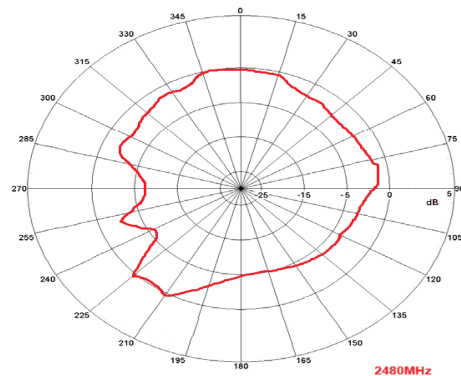
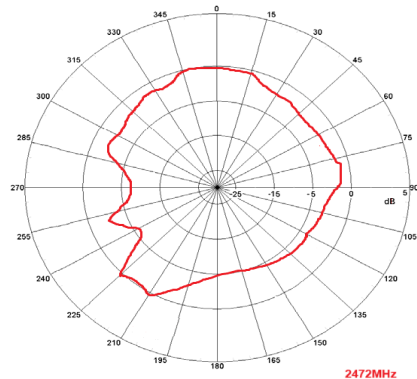
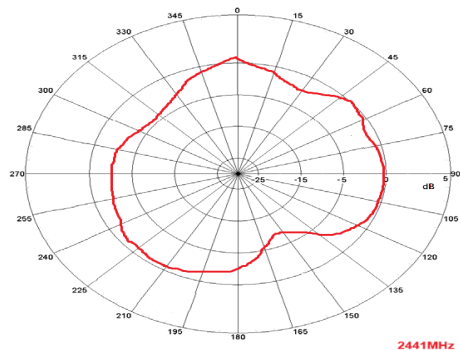
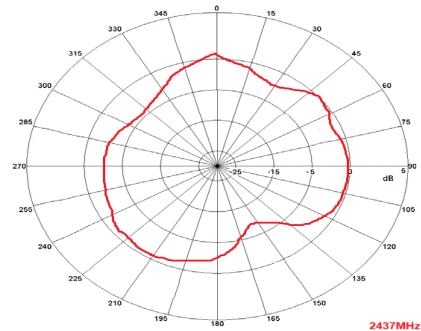
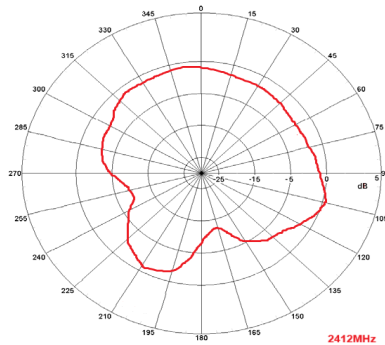
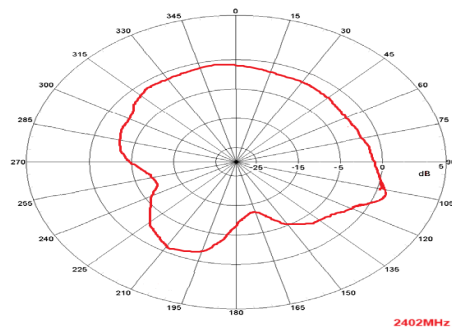
测试数据/RFReport

2.4GHz BAND						
Frequency(MHz)	2402	2441	2480	2412	2437	2472
TRP	13.41	12.78	12.58	12.32	11.65	11.29
TIS			-80.85			-69.29
Gain(dBi)	1.00	0.86	0.26	0.98	0.87	0.32

5GHz BAND						
Frequency(MHz)	5100	5250	5250	5350	5550	5750
TRP	12.03	11.42	10.87	10.74	10.03	10.59
TIS			-70.51			-68.81
Gain(dBi)	1.32	2.00	1.89	1.68	1.79	1.88

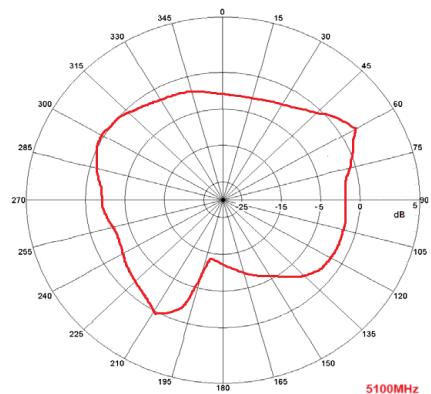
PART 5

测试数据/RFReport

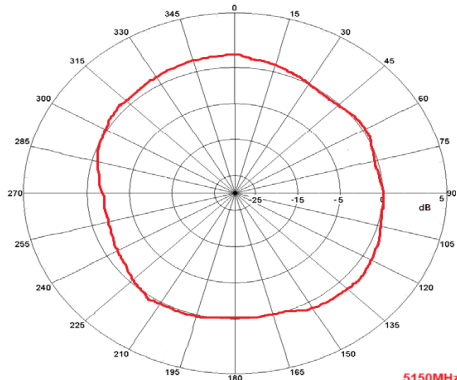


PART 5

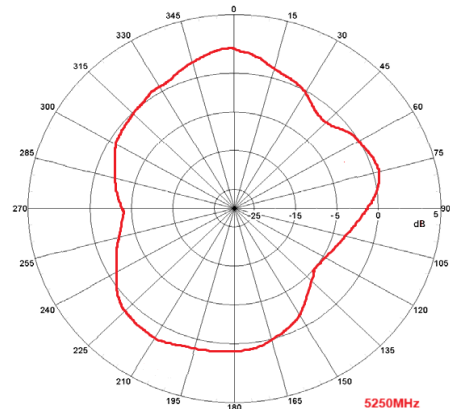
测试数据/RFReport



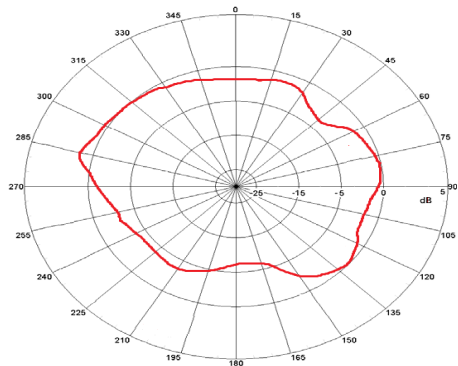
5100MHz



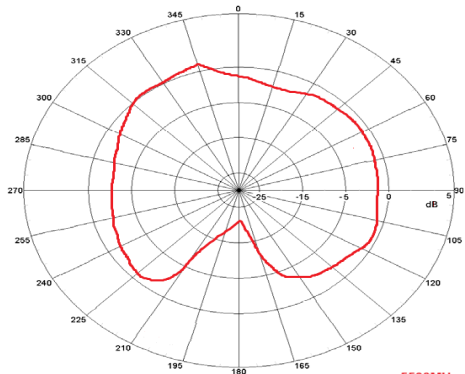
5150MHz



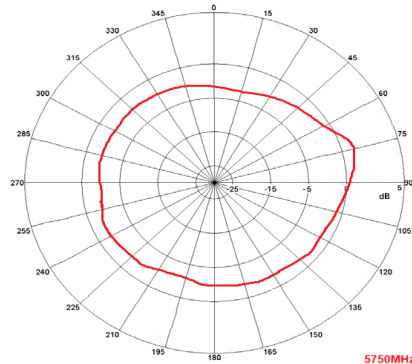
5250MHz



5350MHz



5500MHz



5750MHz



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Thanks!

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