



深圳市凯普深通讯科技有限公司

Shenzhen Kaipushen Communication Technology Co., Ltd

天线调试报告

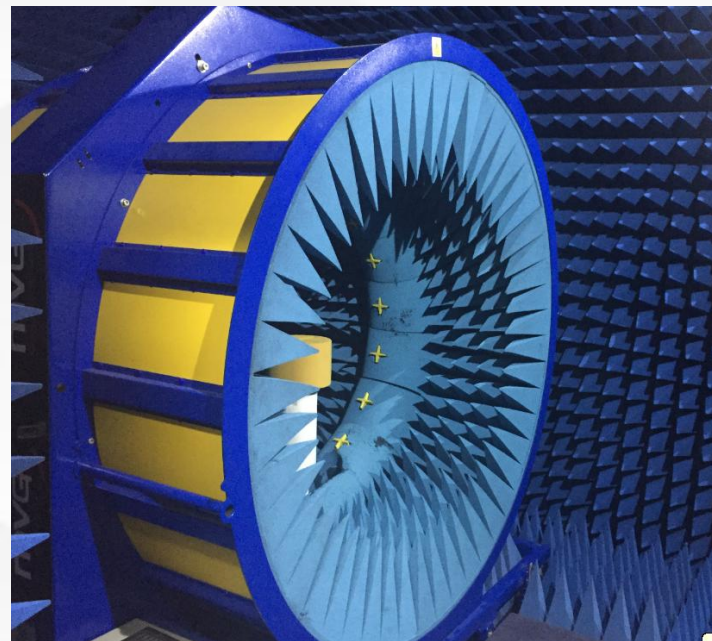
Antenna debugging report

客 户 customer : 智多鲸科技
项目名project name: GT4S
射 频 RF: 庞工 Pang Gong
日 期 Date: 2024.06.25
版 本version: 01



实验室测试环境及设备

Laboratory testing environment and equipment



测试项目 Test items	测试设备 Test equipment
S11、S12、VSWR、LOSS	网络分析仪network analyzer E5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16暗室darkroom、GP7*4*3暗室darkroom、E5071B
TRP、TIS	Satimo SG16暗室darkroom、GP7*4*3暗室darkroom、8960、CMW500、MT8820C、E4438C、



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项目调试简介

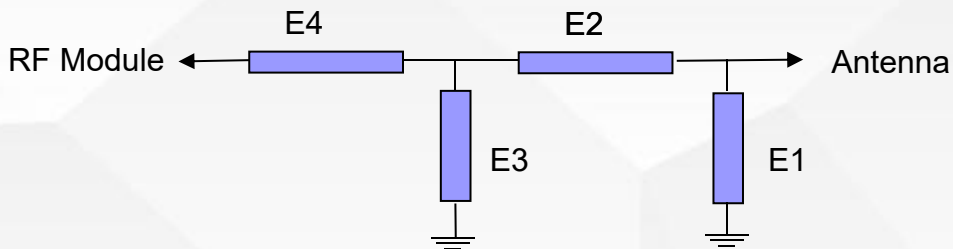
Introduction to Project Debugging

整机类型 Machine type			
		频段信息 Frequency band information	天线形式 Antennaform
天线种类及频段信息 Antenna type and frequency band information			
	WIFI/BT	2400-2480MHZ 2400-2500MHZ 5100-5800MHZ	PIFA
天线材质 Antenna material	FPC		



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WIFI天线匹配电路

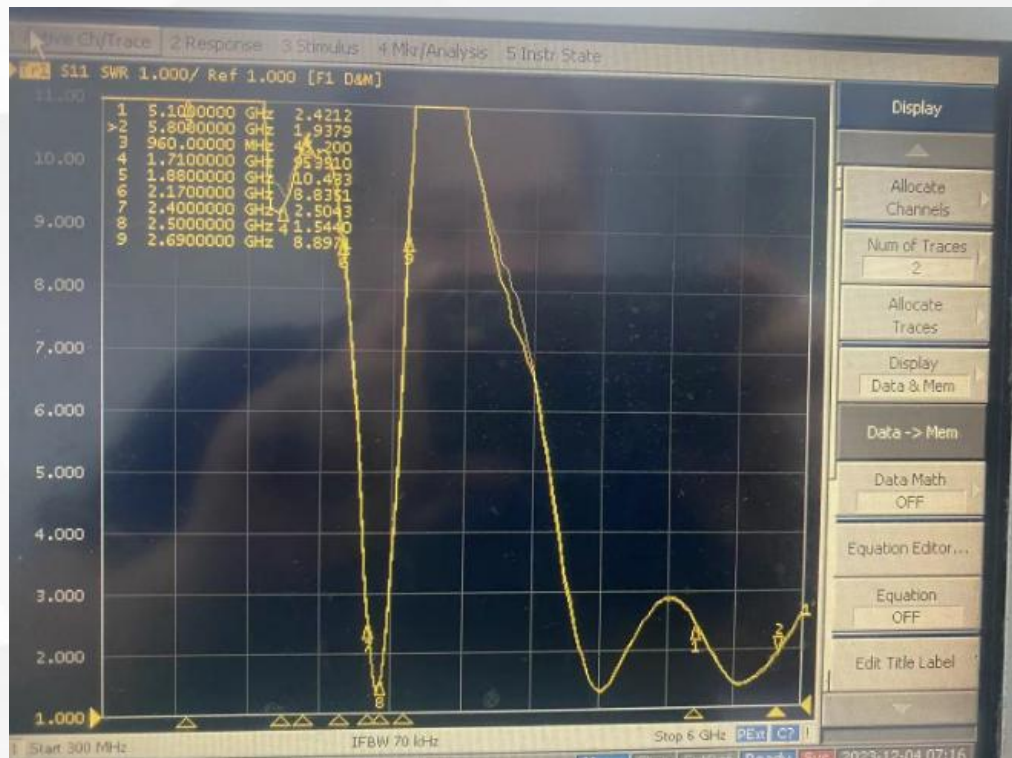


	Element	Value	
	E1(0201)		主板原有匹配
	E2(0201)		
	E3(0201)		



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WiFi 无源图 WiFi passive map





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WIFI效率测试数据

WIFI efficiency test data

WIFI2.4/BT

Passive Test For WIFI2.4			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	36.4	-4.39	1.1
2410	35.09	-4.55	0.9
2420	36.56	-4.37	0.87
2430	39.92	-3.99	1.22
2440	41.53	-3.82	1.17
2450	40.5	-3.93	0.8
2460	39.87	-3.99	0.5
2470	38.08	-4.19	0.28
2480	39.23	-4.06	0.39
2490	44.04	-3.56	0.91
2500	44.46	-3.52	1.12

5.8G

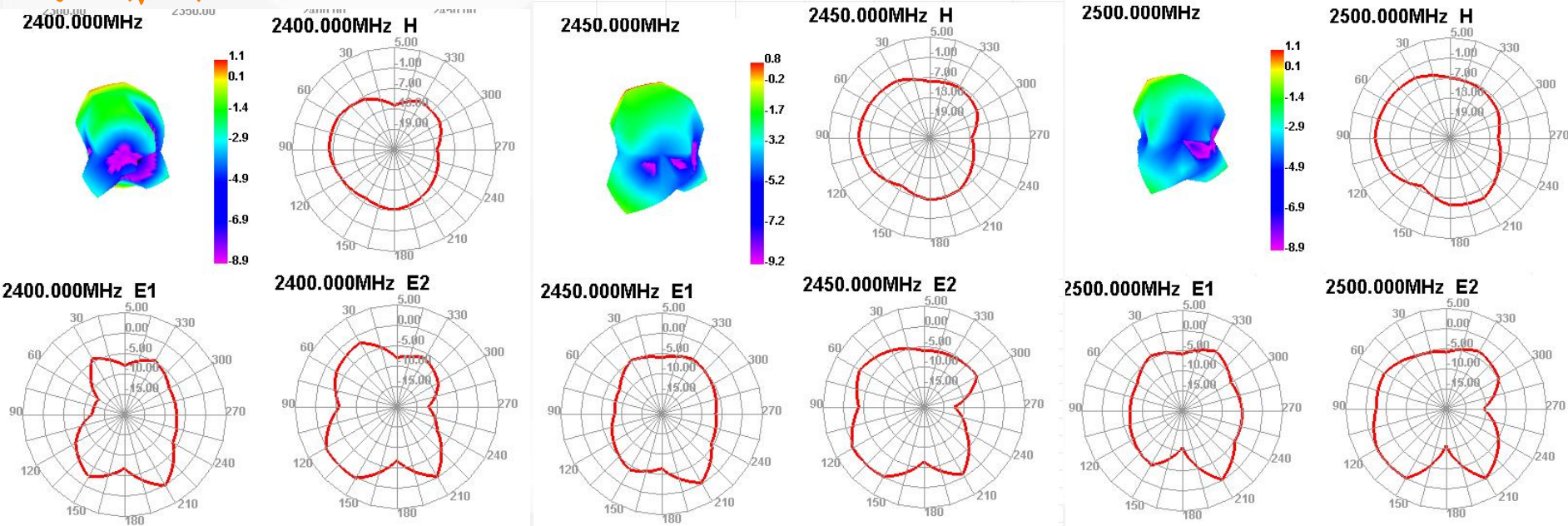
Passive Test For WIFI5.8			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	49.43	-3.06	1.67
5200	44.87	-3.48	1.67
5250	50.7	-2.95	1.98
5300	52.99	-2.76	0.51
5350	56.87	-2.45	1.06
5400	54.61	-2.63	2
5450	46.98	-3.28	0.87
5500	53	-2.76	1.78
5550	50.83	-2.94	-0.88
5600	45.25	-3.44	-0.07
5650	50.81	-2.94	0.91
5700	60.34	-2.19	-0.07
5750	67.4	-1.71	1.81
5800	34	-4.69	0.38
5850	64.52	-1.9	0.72



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天线无源方向图 Passive directional pattern

2.4G/BT



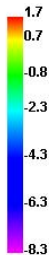
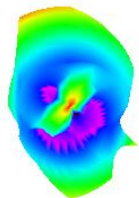


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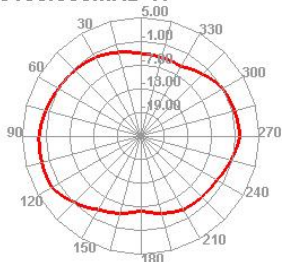
天线无源方向图 Passive directional pattern

5.8G

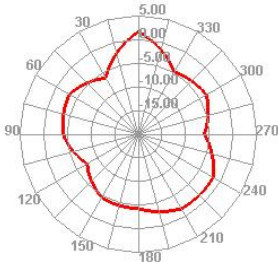
5150.000MHz



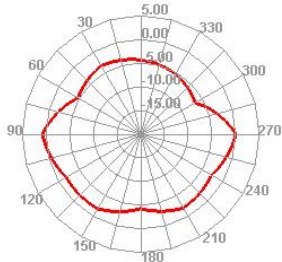
5150.000MHz H



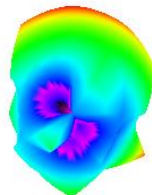
5150.000MHz E1



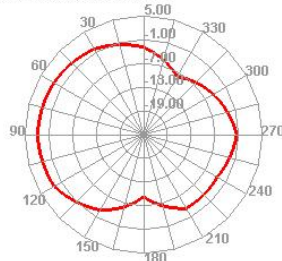
5150.000MHz E2



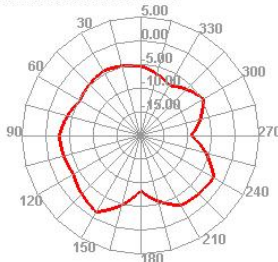
5500.000MHz



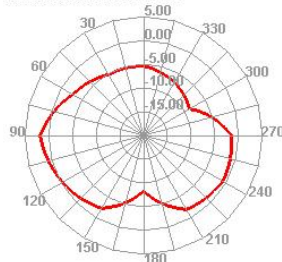
5500.000MHz H



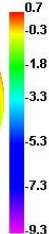
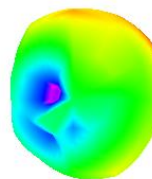
5500.000MHz E1



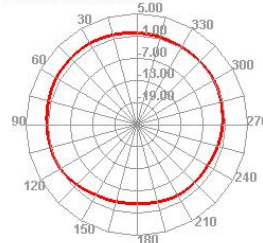
5500.000MHz E2



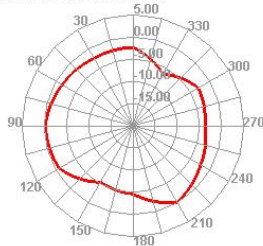
5850.000MHz



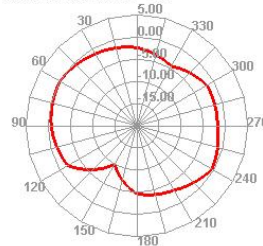
5850.000MHz H



5850.000MHz E1



5850.000MHz E2

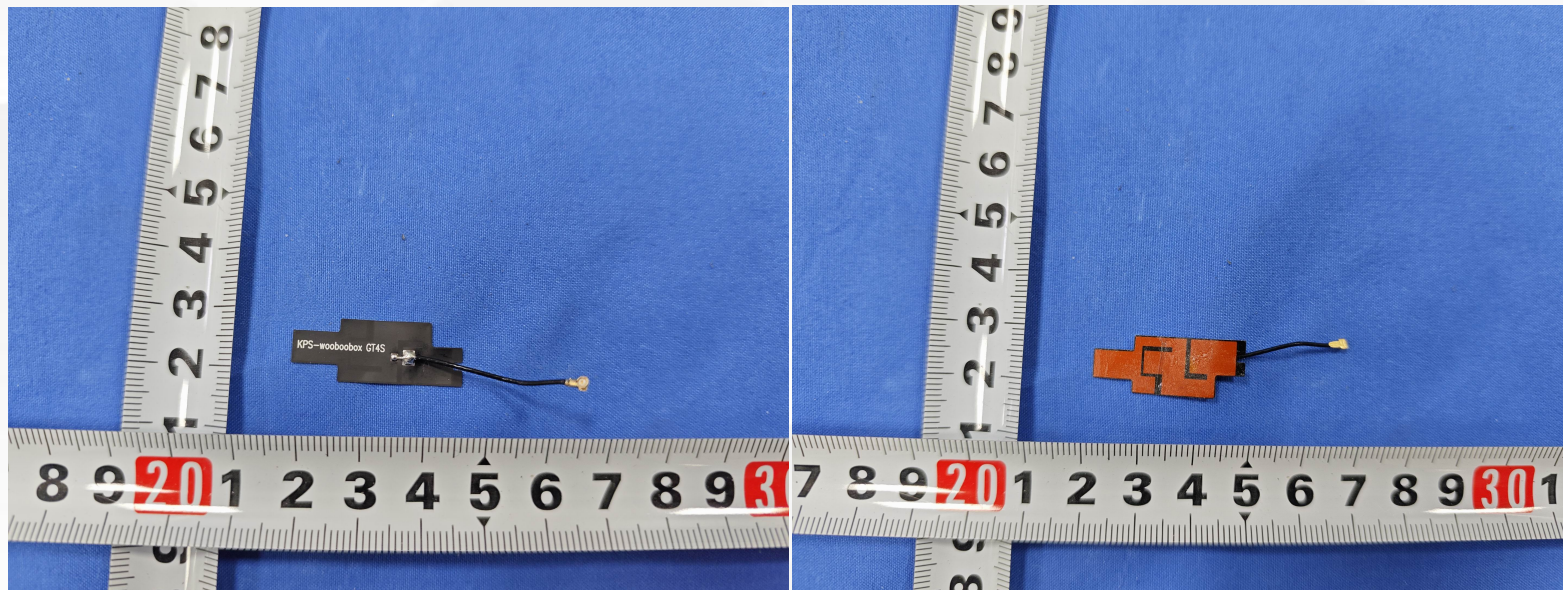




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天线位置图

Antenna position diagram



天线采用FPC+同轴线方式
The antenna adopts FPC+coaxial line mode



联系方式

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THE END

**感谢您的宝贵意见！
Thank you for your
valuable feedback !**