



样品规格书

Antenna Part Specification

客户名称: Customer name:	深圳市杉川机器人有限公司 Shenzhen PICEA Robotics Co., Ltd.
项目名称: Project name:	DM2
天线类型: Material category:	WIFI 天线 WIFI antenna
制造商: Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
制造商地址: Manufacturer Address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
天线版本: Antenna version:	V3
规格书版本: Specification version	V1
日期: Date:	2024.07.02



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变更记录栏 Change record			
编制/变更日期 Compile / change date	变更理由 Reason for change	变更内容 Changed content	版本 Version
2024.07.02	first edition 初版	Initial certification specification sheet 初版认证规格书	V1.0



一：无源测试报告

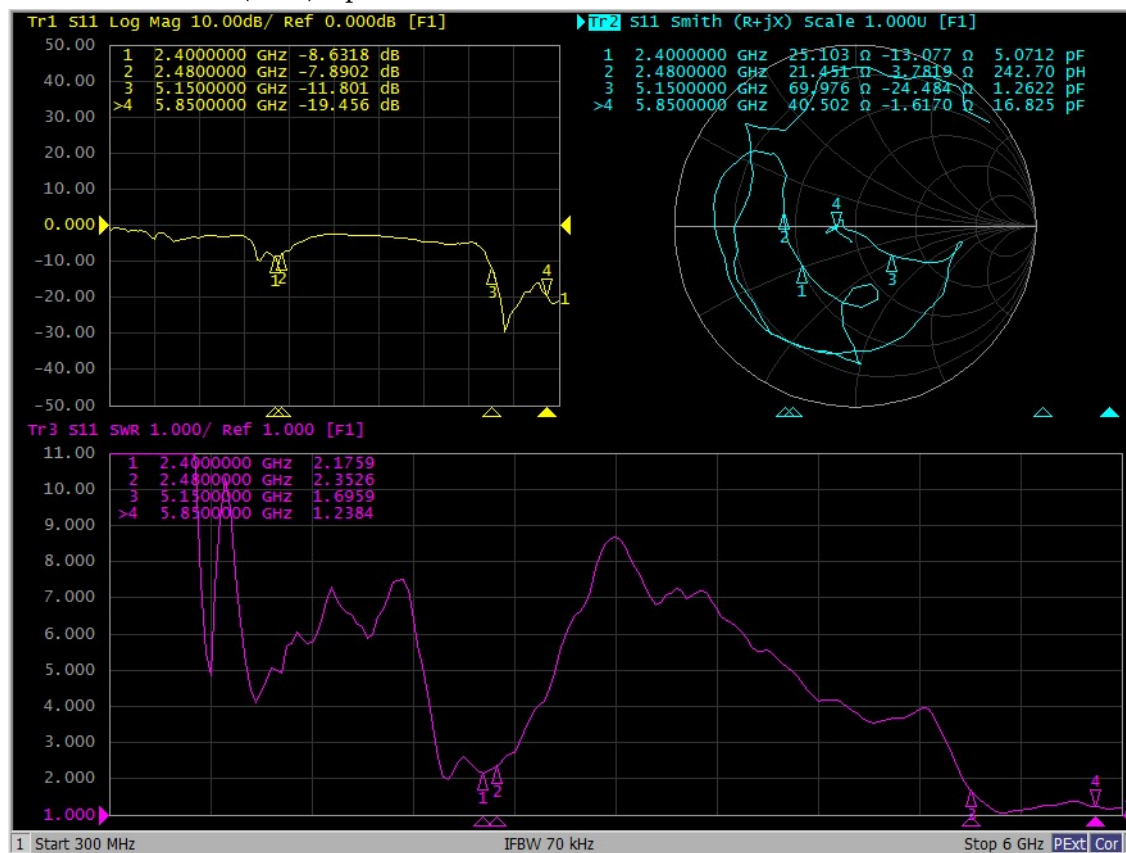
I: The report of passive data



Agilent E5071C

天线 S 参数

Antenna VSWR(S11) parameter





天线无源效率与增益

Passive efficiency and gain of antenna

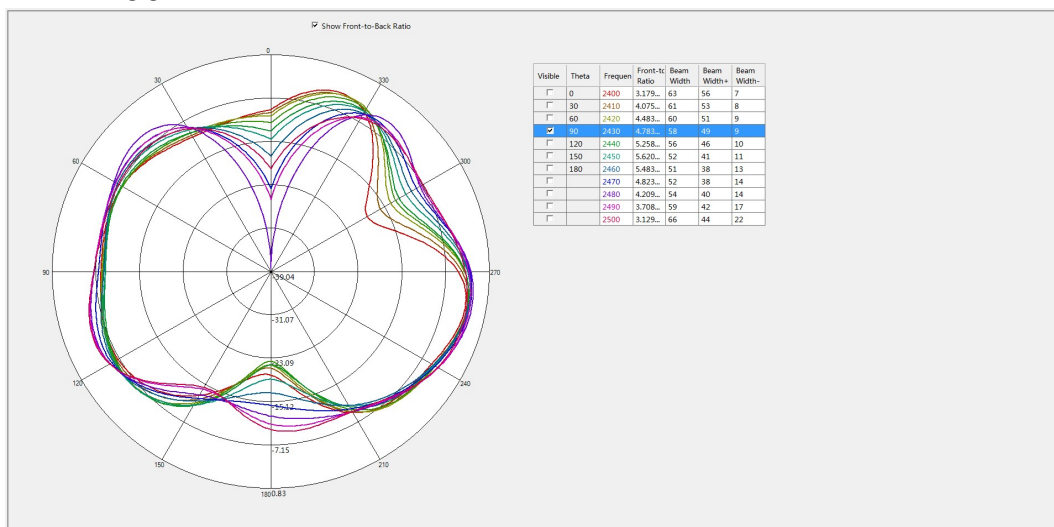
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	2.48	-2.63	55%
2410	2.62	-2.53	56%
2420	2.76	-2.43	57%
2430	2.81	-2.49	56%
2440	2.67	-2.60	55%
2450	2.64	-2.51	56%
2460	2.52	-2.59	55%
2470	2.89	-2.27	59%
2480	3.14	-1.96	64%
5150	1.36	-3.97	40%
5200	2.38	-3.31	47%
5250	3.10	-2.81	52%
5300	3.79	-2.19	60%
5350	3.58	-2.32	59%
5400	2.98	-2.68	54%
5450	2.24	-3.06	49%
5500	1.83	-2.61	55%
5550	1.78	-2.48	56%
5600	2.52	-2.33	58%
5650	4.18	-2.39	58%
5700	4.61	-2.27	59%
5750	4.36	-1.87	65%
5800	3.07	-2.10	62%
5850	2.11	-2.17	61%



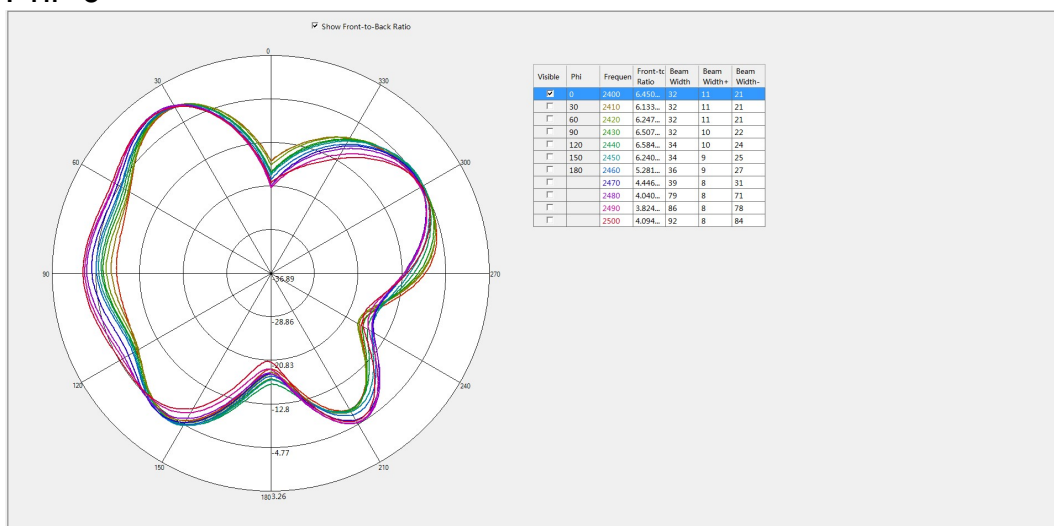
2. 4G 天线无源 2D 方向图

Passive 2D pattern of 2.4G antenna

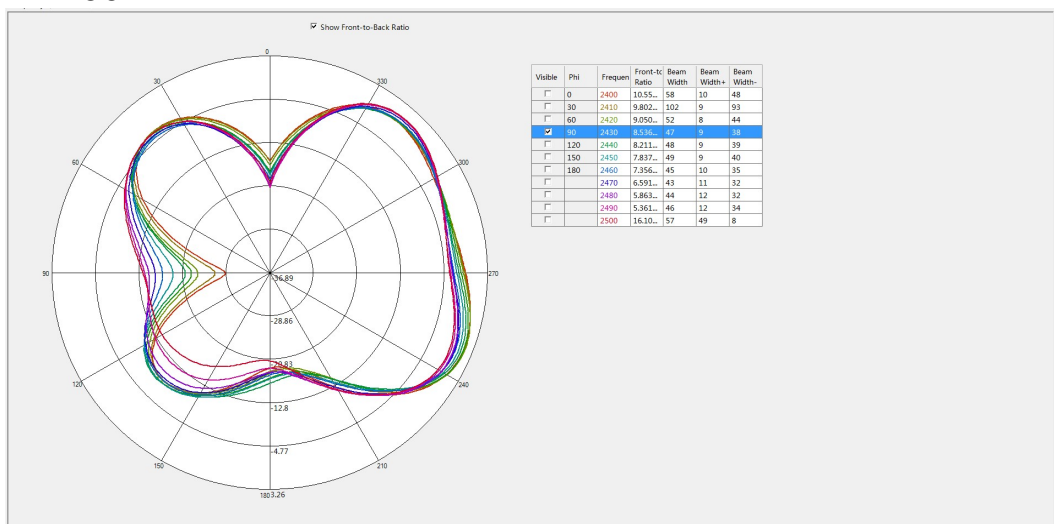
Theta=90°



Phi=0°



Phi=90°

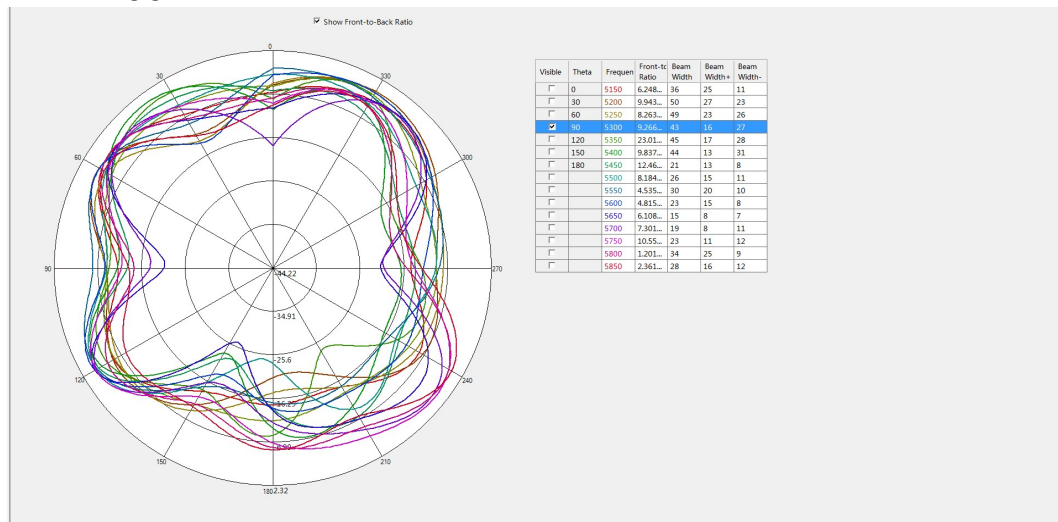




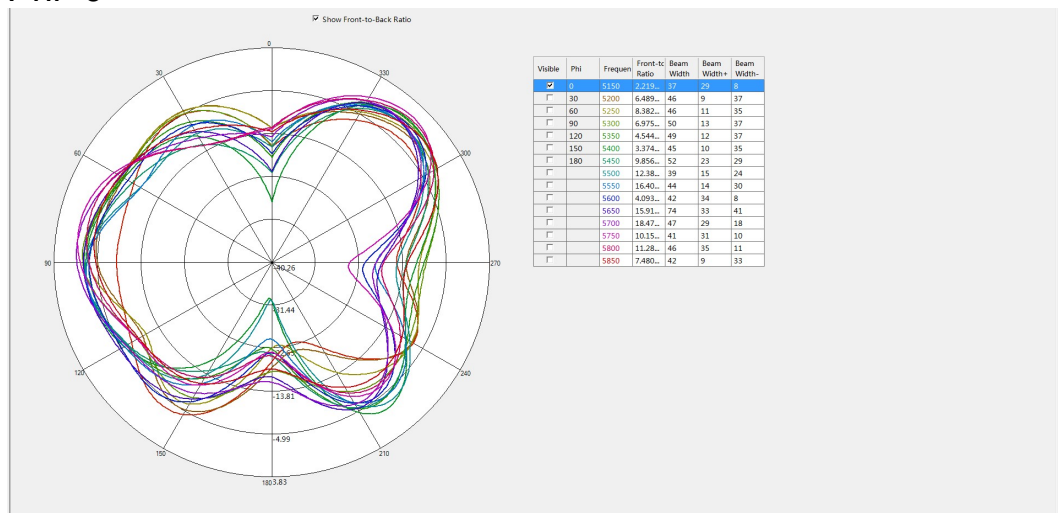
5G 天线无源 2D 方向图

Passive 2D pattern of 5G antenna

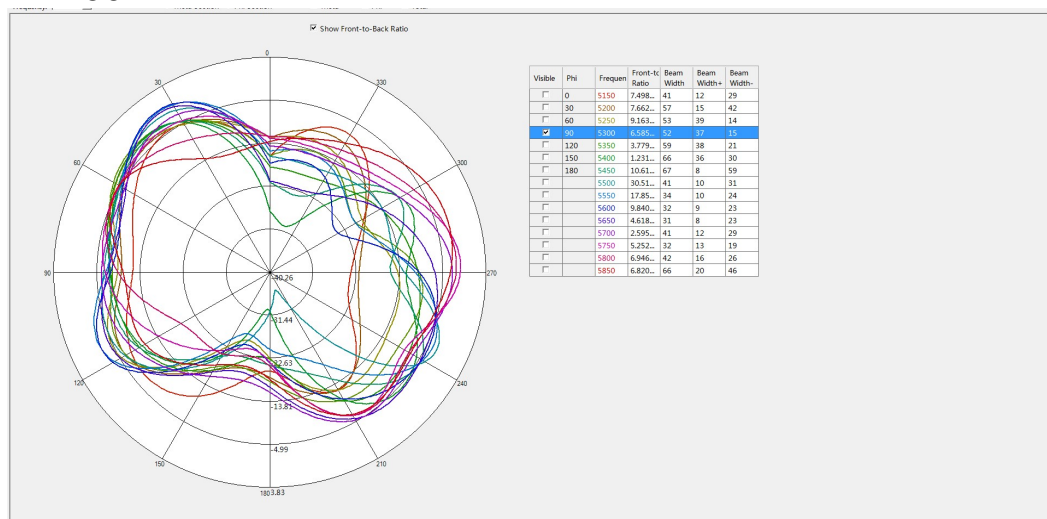
Theta=90°



Phi=0°



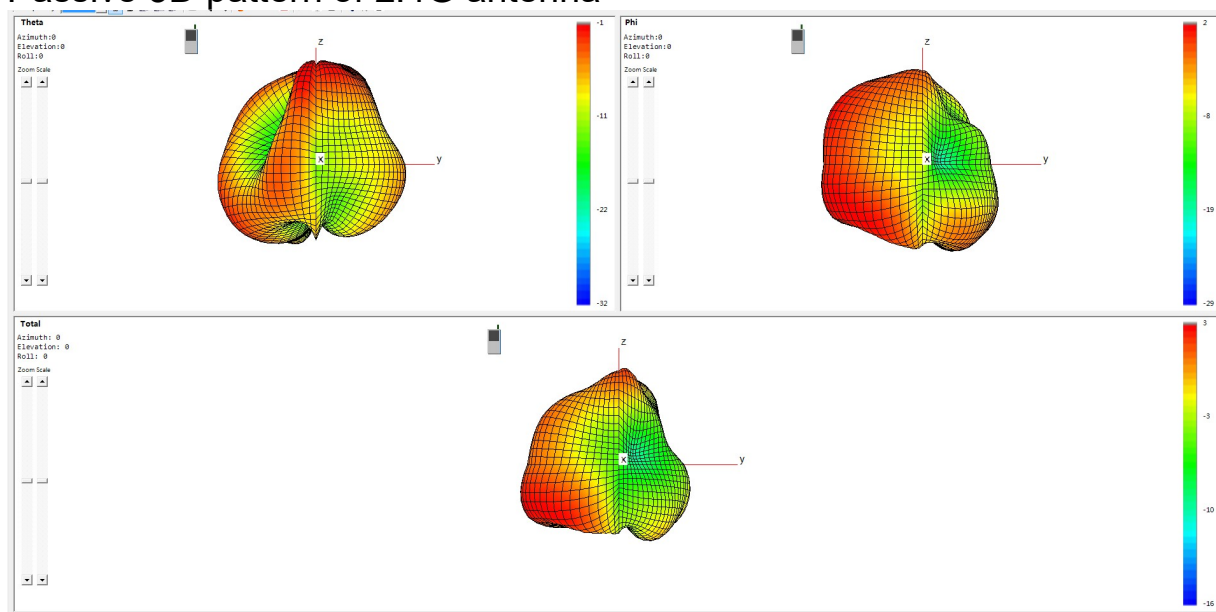
Phi=90°





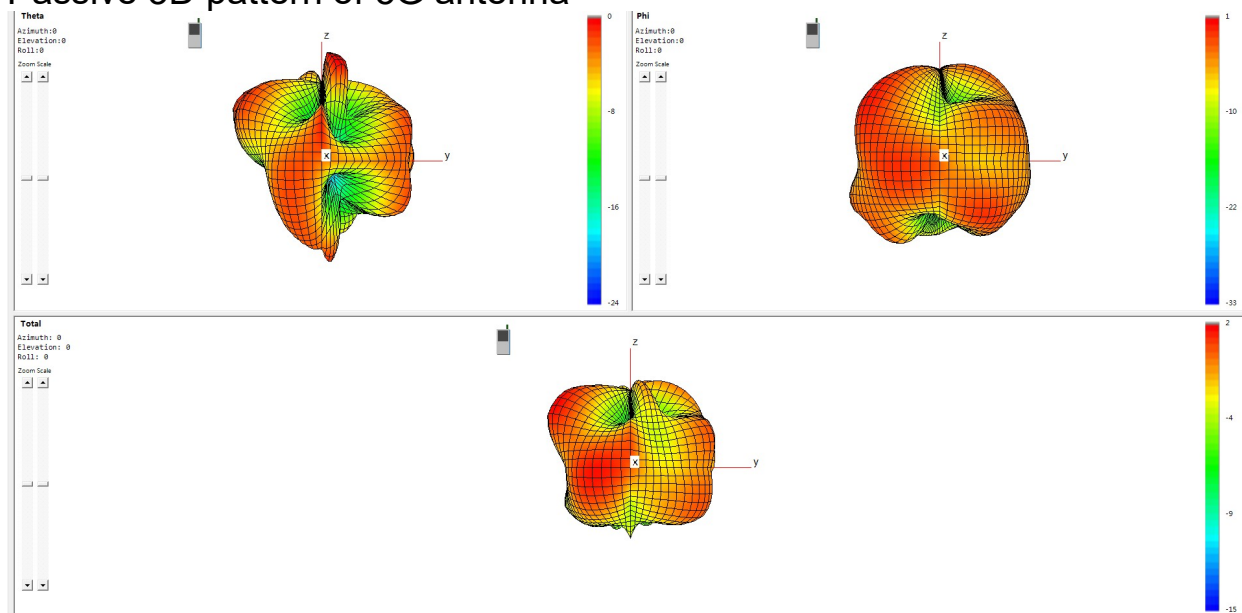
2.4G 天线无源 3D 方向图

Passive 3D pattern of 2.4G antenna



5G 天线无源 3D 方向图

Passive 3D pattern of 5G antenna





二：暗室有源测试数据

II: 3D Active test report of antenna

11M	Channel	TRP (dBm)	TIS (dBm)
WIFI B	CH 1	16.6	-72.8
	CH 6	16.8	-73.8
	CH 11	17.3	-78.1

54M	Channel	TRP (dBm)	TIS (dBm)
WIFI A	CH 36	17.1	-68.9
	CH 100	17.5	-70.7
	CH 165	17.4	-68.7

54M	Channel	TRP (dBm)	TIS (dBm)
WIFI G	CH 1	11.8	-66.5
	CH 6	12.0	-67.6
	CH 11	12.4	-70.1



OTA Standard Chamber

III: Structure file



