



河源市迅维通讯技术有限公司

联合天通KC2403

天线测试报告

射频工程师:李振领

测试日期: 2024.09.10

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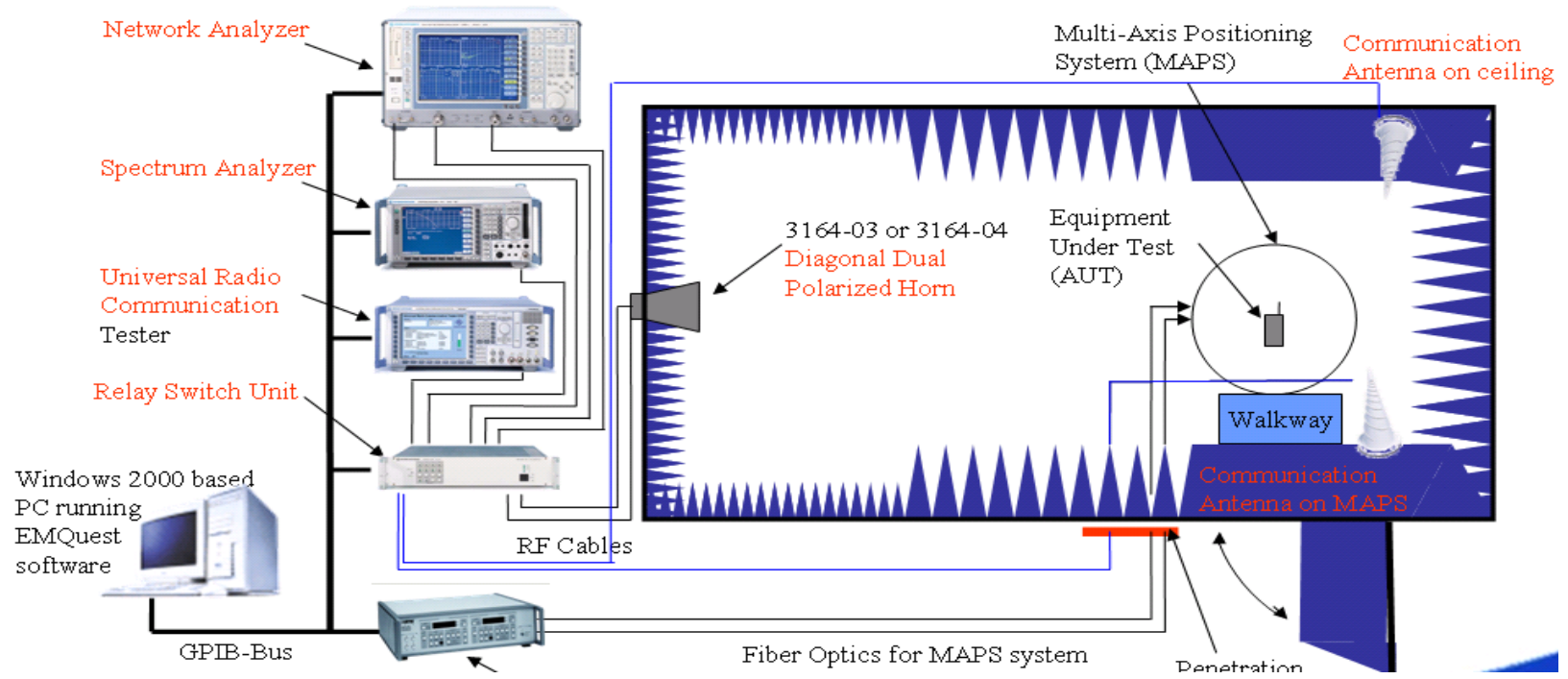
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1、测试设备

综测仪: Agilent 8960

网络分析仪: Agilent 8753ES

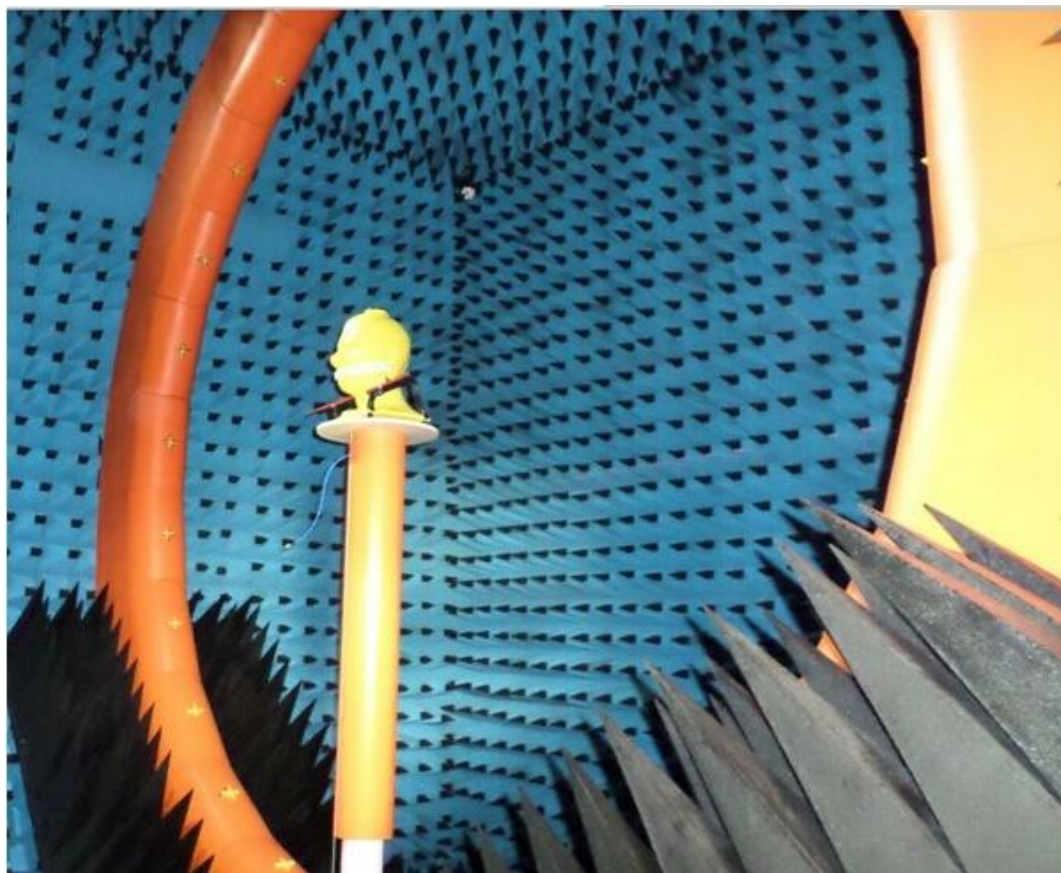
3D暗室: 7x4x3m



综测仪: CMW500

网络分析仪: Agilent 5071B

3D暗室: SATIMO SG24



2、项目基本信息

客户名称	联合天通
项目名称	KC2403
手机类型	4G功能机
主板型号	FF615-MB-V3.2
小板型号	无
版本	V1.0

3、项目变更记录表

报告版本	日期	变更内容描述
V1.0	2024.09.10	优化天线

4、天线匹配电路

天线名称	匹配是否更改	备注
主天线	是	4.1

5、有源测试数据

GSM 3D测试数据

Band	Ch	自由空间	
		TRP	TIS
G850	128	27.32	
	190	27.87	
	251	27.95	-103.66
G900	975	28.14	
	38	28.42	
	124	28.36	-103.2
G1800	512	24.77	
	699	24.48	
	885	24.36	-103.55
G1900	512	24.87	
	661	24.64	
	810	24.5	-104.74

WCDMA 3D测试数据

Band	Ch	自由空间	
		TRP	TIS
W-B2	9660	17.3	
	9800	17.25	
	9938	17.41	-104.84
W-B5	4357	17.65	
	4408	18.58	
	4458	18.23	-105.67
W-B8	2937	18.93	
	3013	18.35	
	3088	18.2	-105.74

LTE 3D测试数据

Band	Ch	自由空间	
		TRP	TIS
LTE-2 (10M)	18650	17.33	
	18900	17.35	
	19150	17.37	-92.43
LTE-3 (10M)	19250	16.69	
	19575	17.61	
	19900	17.23	-92.64
LTE-4 (10M)	20000	16.59	
	20175	17.2	
	20350	17.11	-93.22
LTE-7 (10M)	20800	17.34	
	21100	17.49	
	21400	17.82	-90.93

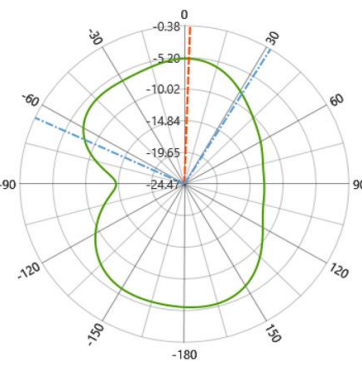
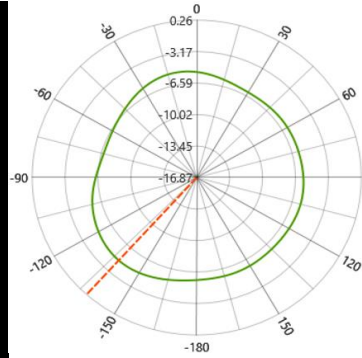
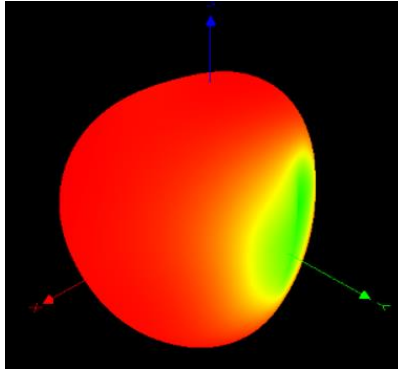
Band	Ch	自由空间	
		TRP	TIS
LTE-8 (10M)	21500	18.25	
	21625	18.66	
	21750	18.36	-93.68
LTE-28 (10M)	27260	16.49	
	27435	17.85	
	27610	18.14	-93.68

天线无源增益效率测试

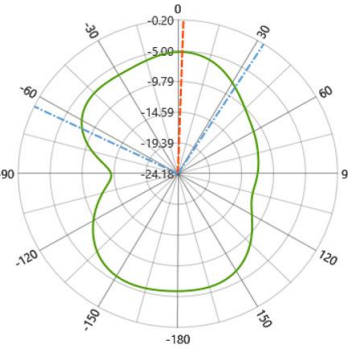
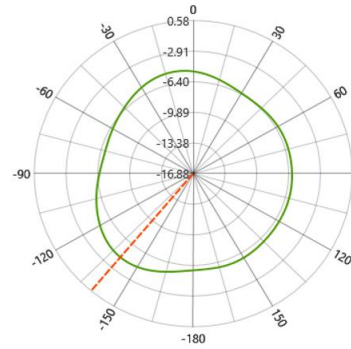
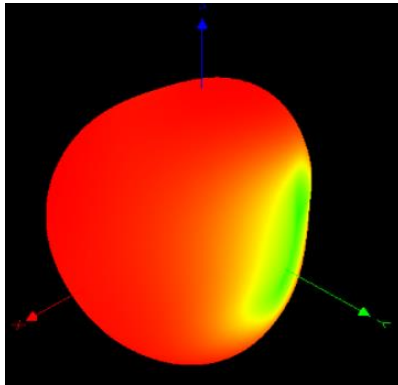
Band	Max Gain	Efficiency
GSM850	-0.87	33%
GSM900	-0.76	34%
DCS1800	-0.36	35%
PCS1900	-0.28	35%
WCDMA1900	-0.28	35%
WCDMA850	-0.77	33%
WCDMA900	-0.76	34%
BAND 2	-0.31	35%
BAND 3	-0.36	35%
BAND 4	-0.35	34%
BAND 7	-0.47	32%
BAND 8	-0.76	34%
BAND 28A	-1.19	29%
BAND 28B	-1.21	29%
BT	-2.53	30%

天线无源2D图

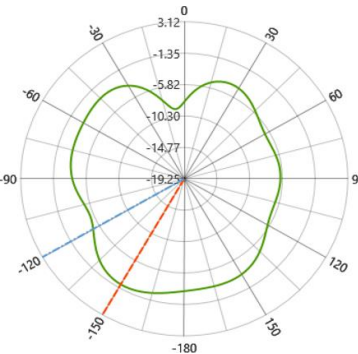
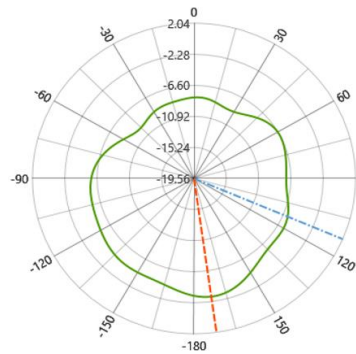
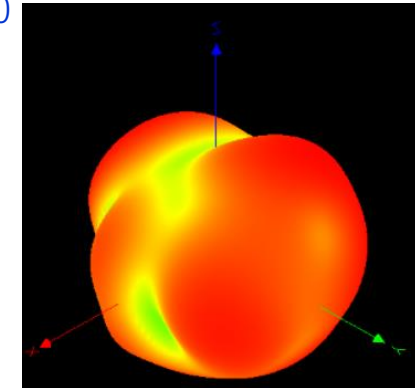
GSM850



GSM900

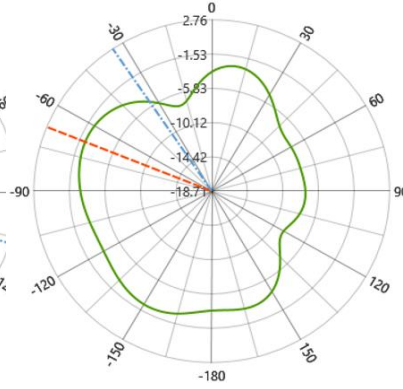
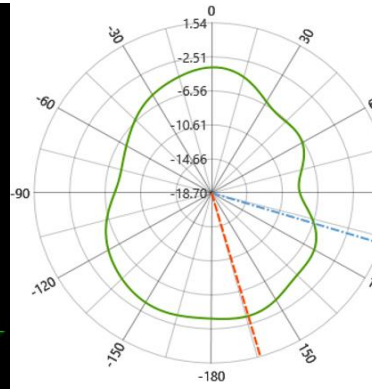
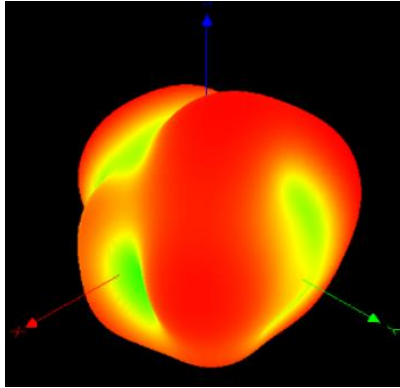


DCS1800

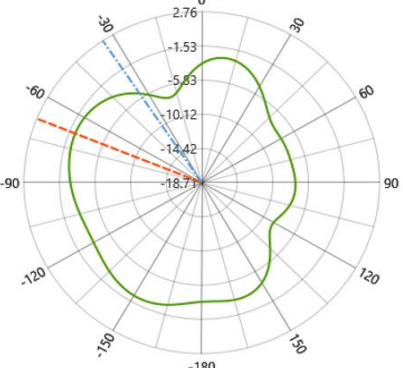
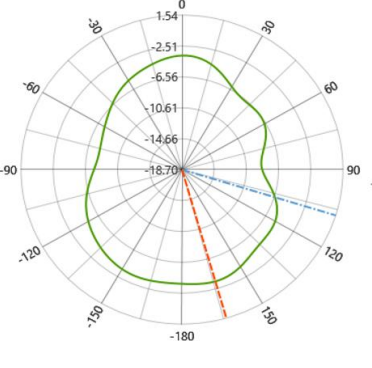
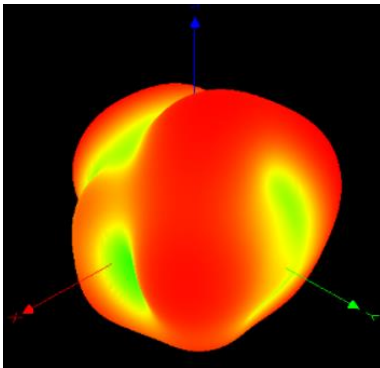


天线无源2D图

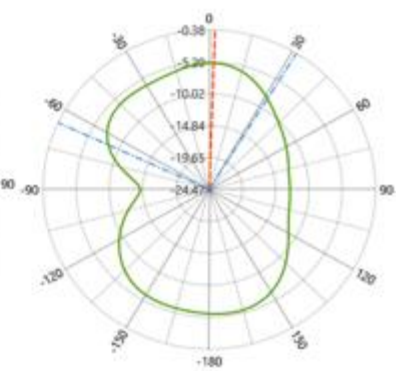
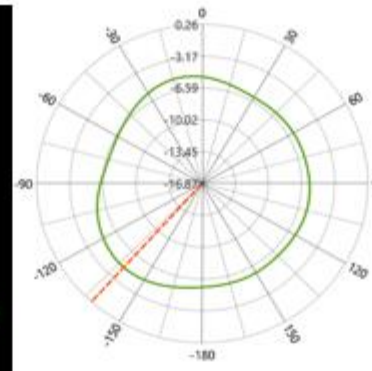
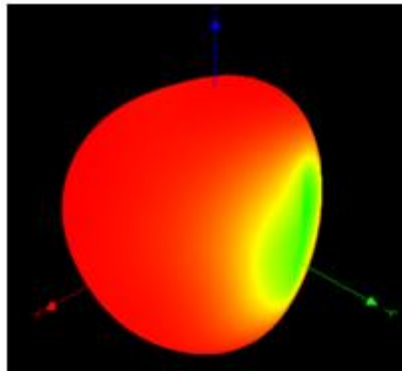
PCS1900



WCDMA
1900

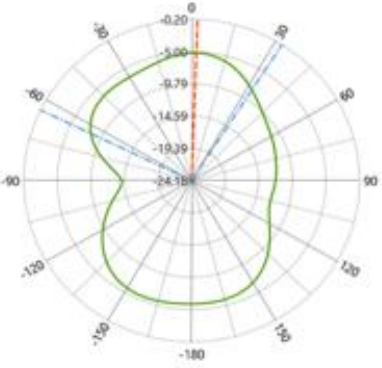
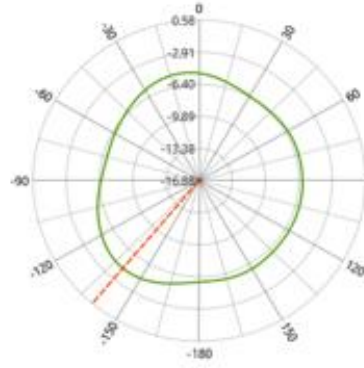
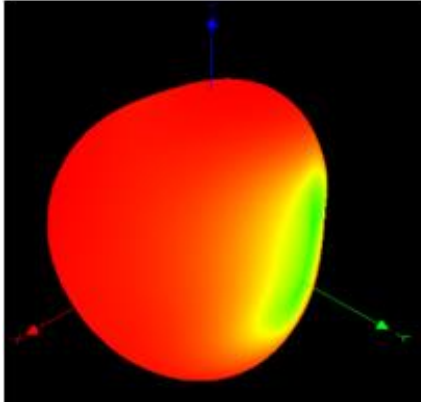


WCDMA
850

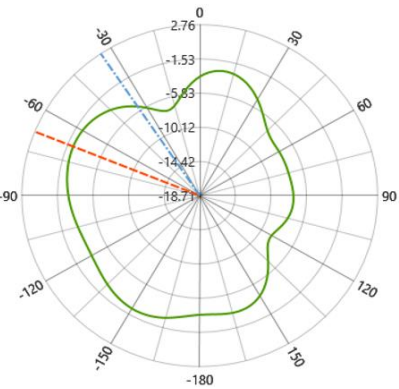
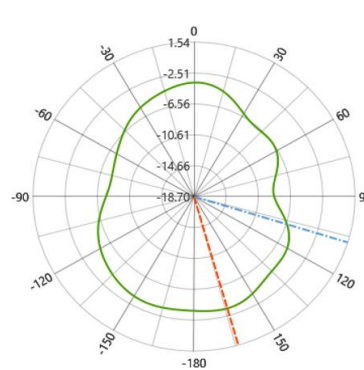
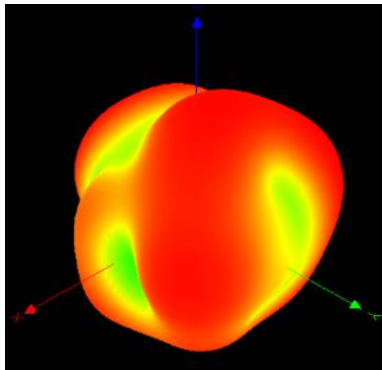


天线无源2D图

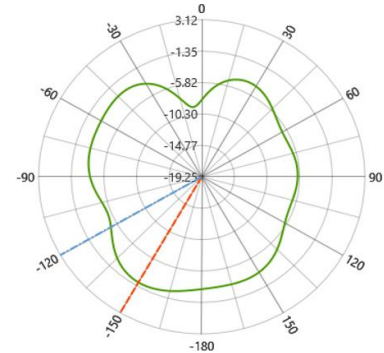
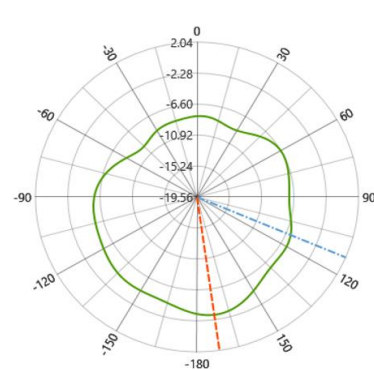
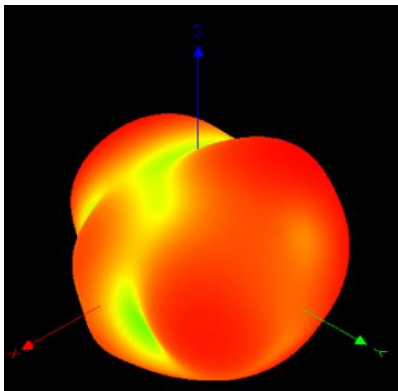
WCDMA
900



FDD-B2

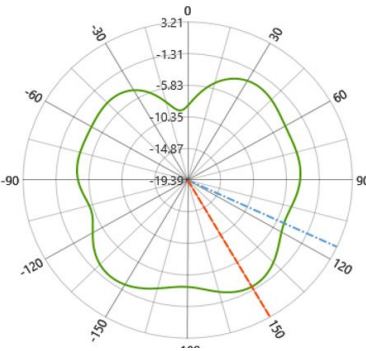
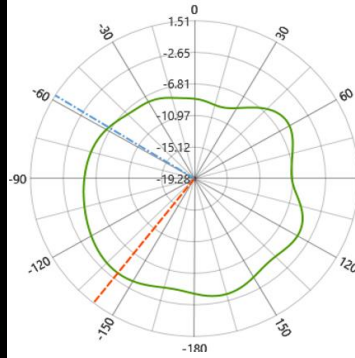
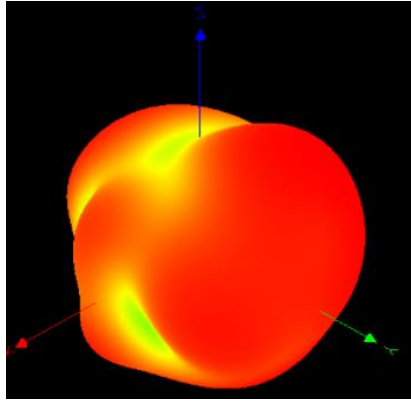


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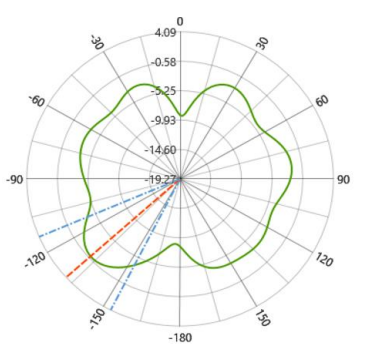
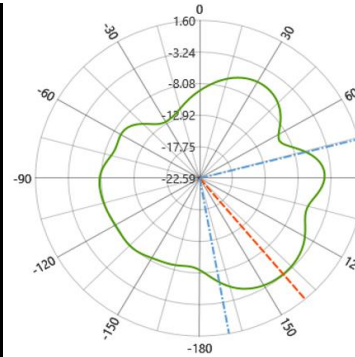
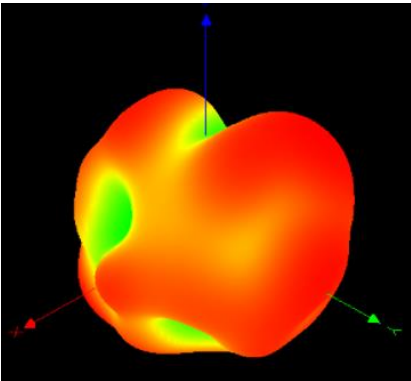


天线无源2D图

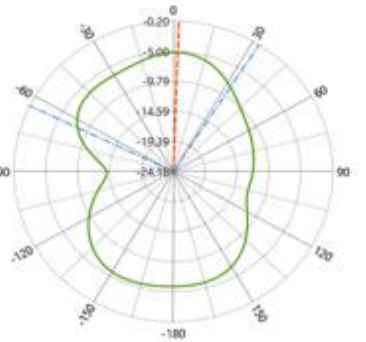
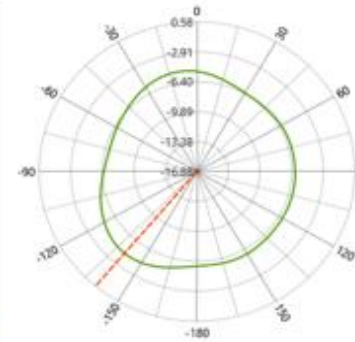
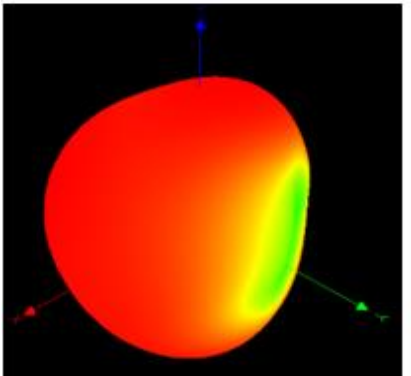
FDD-B4



FDD-B7

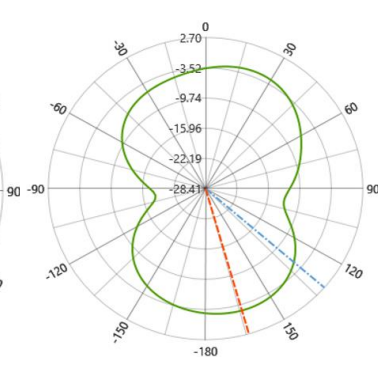
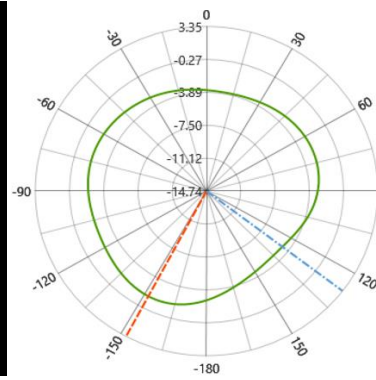
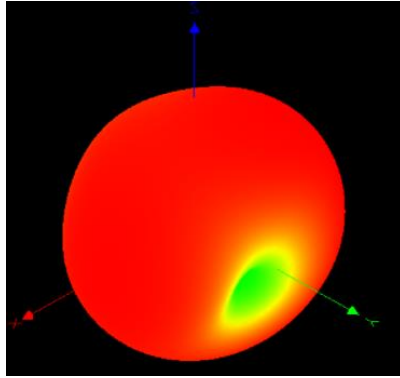


FDD-B8

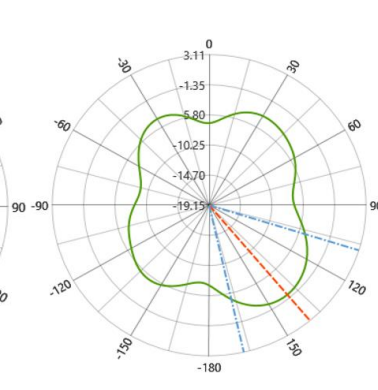
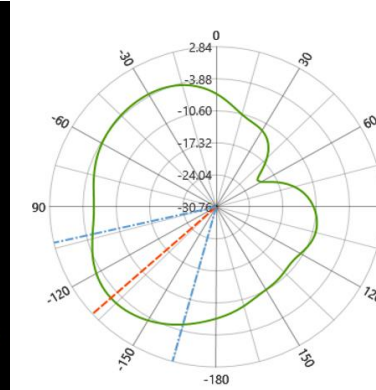
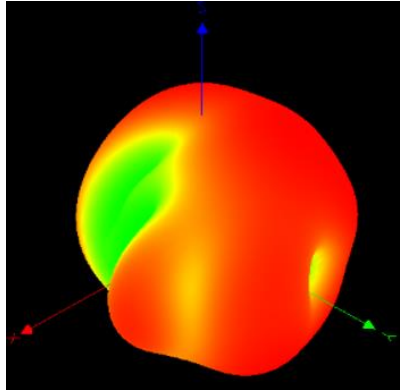


天线无源2D图

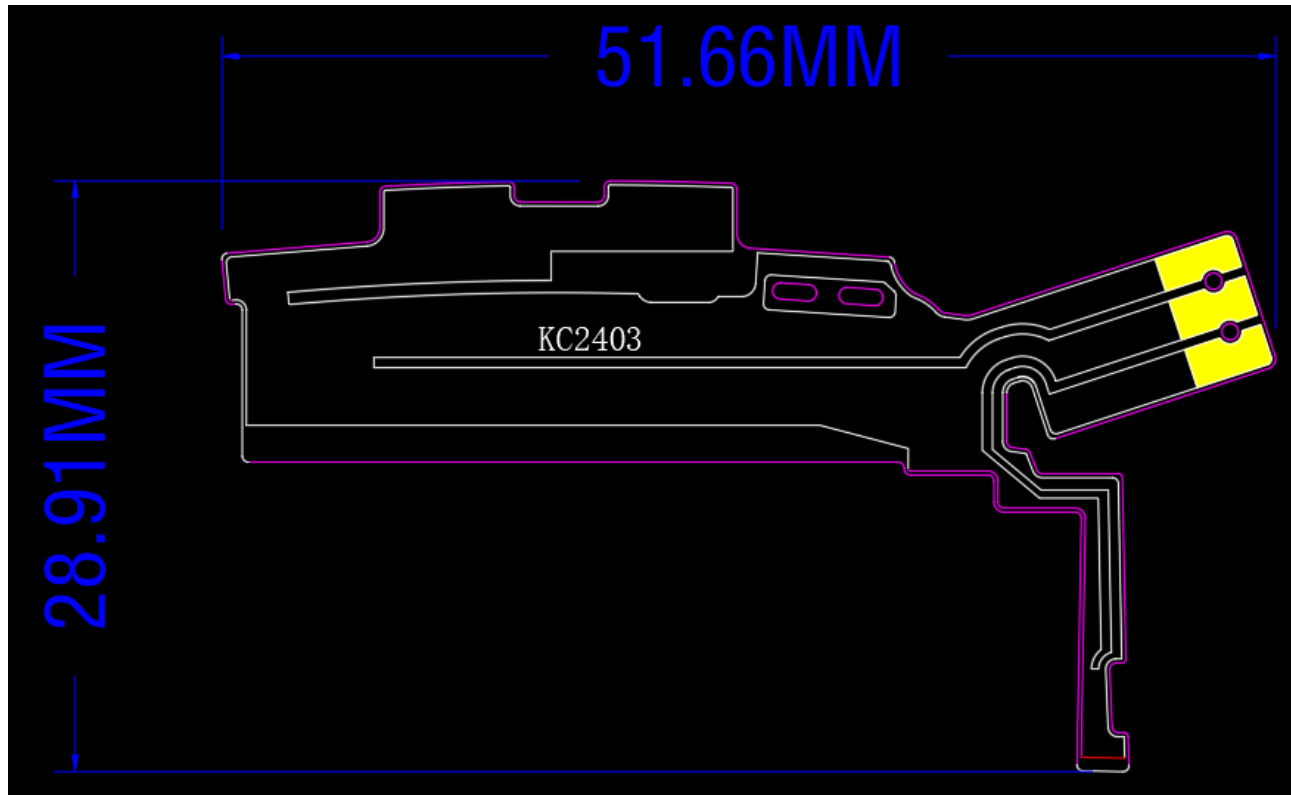
FDD-B28



BT



天线外观图



6、环境处理（试产机环境处理不变）：



7、联系方式

业务：乐庸德

电话：15072046607
邮箱：yueyd@xunweitx.com

射频：李振领

电话：13632804621
邮箱：lizl@xunweitx.com

结构：李文波

电话：15919806329
邮箱：liwb@xunweitx.com



Thanks and best regards!

办公地址：深圳市南山区沙河西路3011号白沙新兴产业园1栋8楼M区
工厂地址：河源市高新区兴业大道西边科技十路南边（华汇智谷厂房C栋5层西）