



深圳麒鑫通达科技有限公司



天线测试数据报告

Antenna test data report

客户: 联永科技
项目: S545
频段: G4+W2/W4/W5+LTE-FDD-
B2/B4/B5/B12/B17/B66/B71
天线: 马斐 (134 1821 8312)
日期: 2023年03月23日

	测试项目	设备
1. S参数	1. 回损(RL) 2. 驻波比(VSWR)	网络分析仪: Agilent 5071B
2. 耦合功率测试	1. 发射功率 (power) 2. 接收灵敏度(level)	综测仪: CMW500/8960 暗室: 6*4*3微波暗室

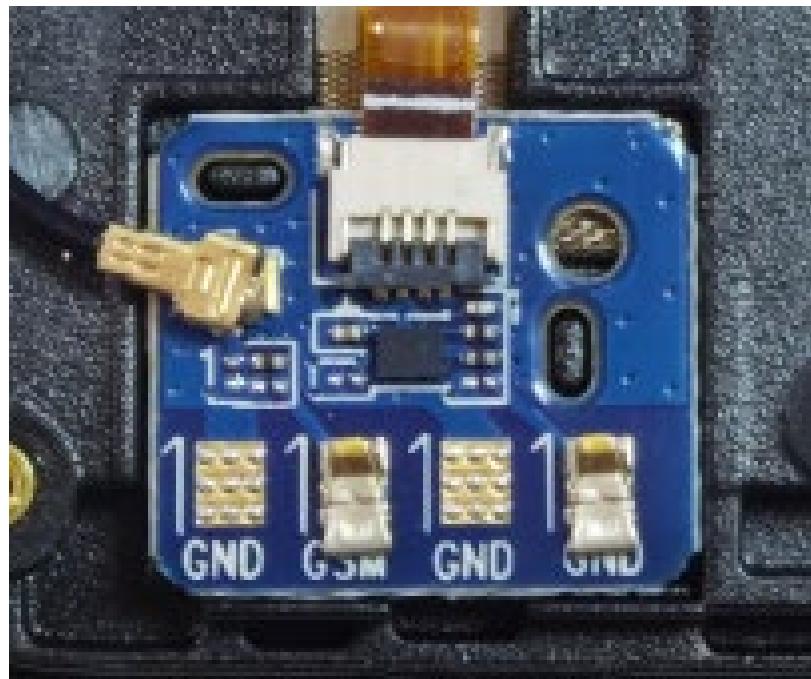




调试版本记录

整机及主板型号图示

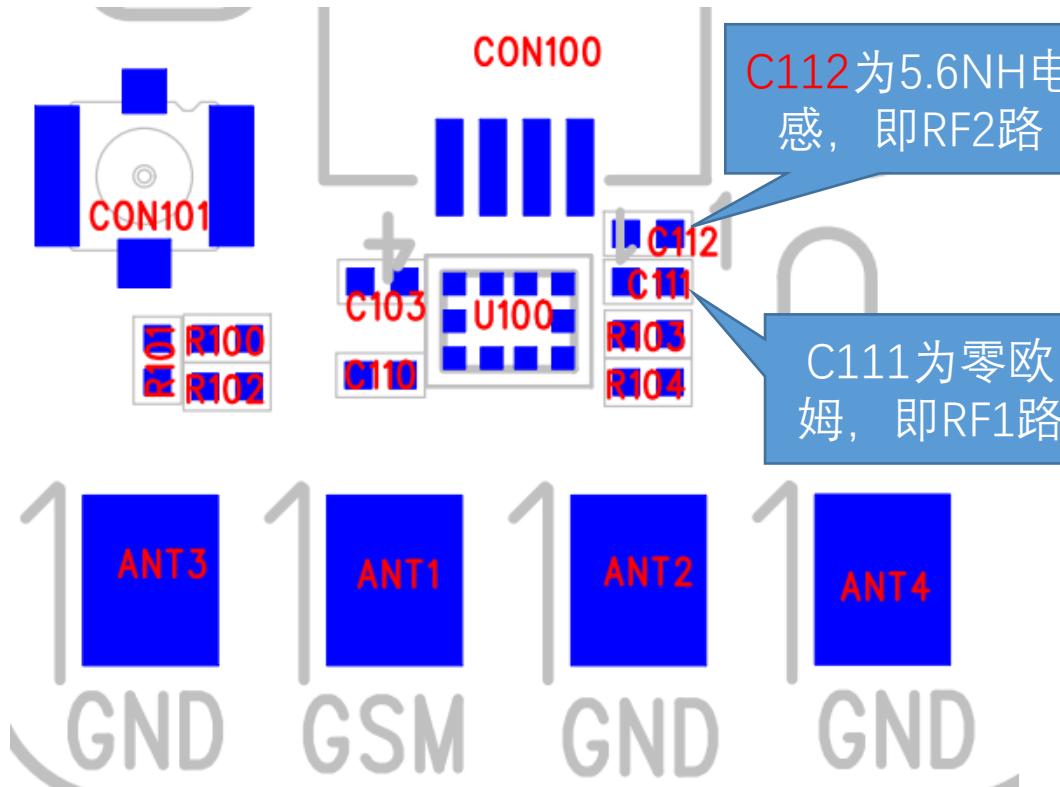




开关逻辑：

RF1路： GSM850/900/1800/1900+W2/4/5+LTE-FDD-B2/B4/B5/B66 (零欧姆)

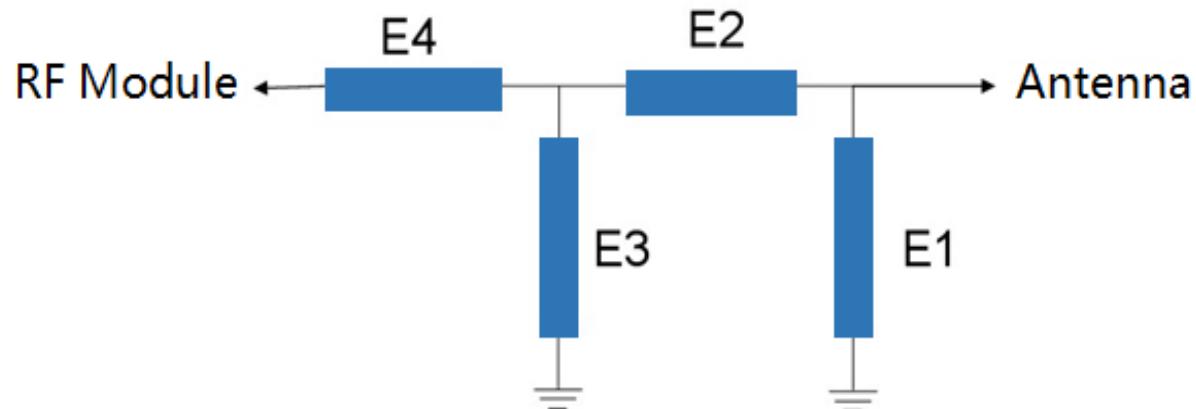
RF2路： LTE-FDD-B12/B17/B71 (5.6NH)



调谐电路

RF1: 主馈角保持不变。
调谐馈角与地短接状态
(C111为零欧姆)。该通路
除了B12/B17/B71以外
其他频段正常使用。

RF2: 主馈角上保持不变,
调谐馈脚处用5.6NH电
感调谐B12/B17/B71用
(C112)。该通路
B12/B17/B71正常使用。



Element	Value
E1	未更改
E2	未更改
E3	未更改
E4	未更改

天线辐射测试数据 (有源)

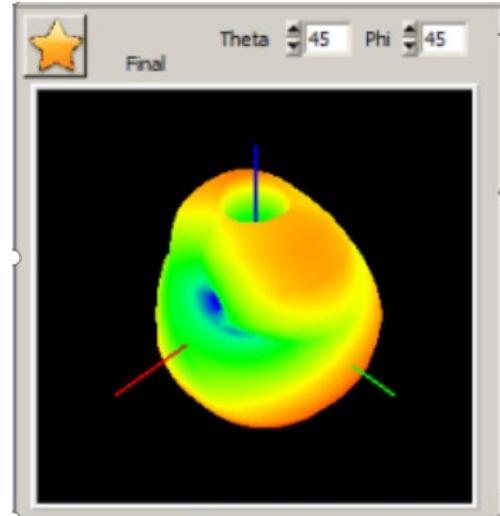


手机型号	1#	备注说明				
测试项目		GSM900测量数值			DCS1800测量数值	
信道	1	62	120	512	698	885
TRP (dBm)	25. 04	25. 28	26. 18	25. 21	26. 4	26. 53
TIS (dBm)			-103. 44			-104. 46
测试项目		GSM850测量数值			PCS1900测量数值	
信道	128	190	251	512	661	810
TRP (dBm)	26. 09	26. 03	25. 87	25. 45	25. 11	25. 35
TIS (dBm)			-103. 55			-105. 28
测试项目		WCDMA850测量数值			WCDMA1700测量数值	
信道	4357	4400	4458	1537	1618	1738
TRP (dBm)	15. 32	15. 14	15. 48	17. 81	17. 84	17. 95
TIS (dBm)			-102. 3			-105. 23

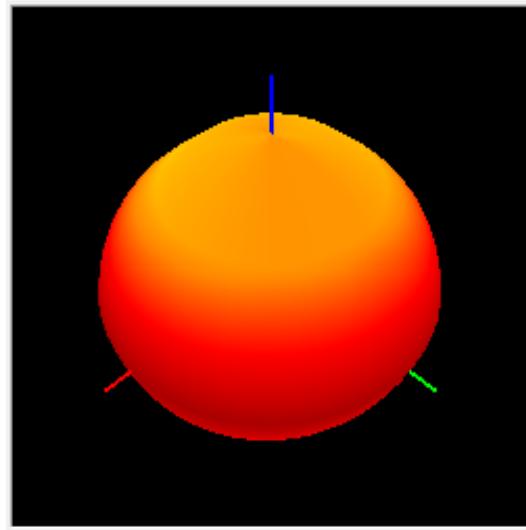
手机型号	1#	备注说明				
测试项目		WCDMA1900测量数值				
信道	9662	9800	9938			
TRP (dBm)	18. 43	19. 22	19. 6			
TIS (dBm)			-105. 65			
测试项目		LTE-FDD-B2			LTE-FDD-B4	
信道	650	900	1150	2000	2175	2350
TRP (dBm)	18. 66	18. 74	18. 69	18. 12	17. 76	17. 75
TIS (dBm)			-93. 35			-93. 65
测试项目		LTE-FDD-B5			LTE-FDD-B12	
信道	2450	2525	2600	5780	5790	5800
TRP (dBm)	15. 45	15. 13	15. 22	14. 6	15. 12	15. 03
TIS (dBm)			-91. 71			-92. 43

手机型号	1#	备注说明				
测试项目		LTE-FDD-B17			LTE-FDD-B66	
信道		9260	9420	9600	L	M
TRP (dBm)		15.32	15.57	15.64	17.98	17.49
TIS (dBm)				-91.75		-92.98
测试项目		LTE-FDD-B71				
信道		L	M	H		
TRP (dBm)		12.28	14.26	15.06		
TIS (dBm)				-89.52		

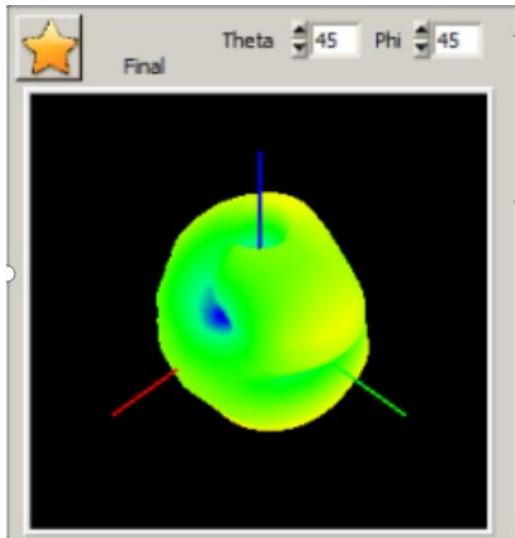
GSM850
-TRP



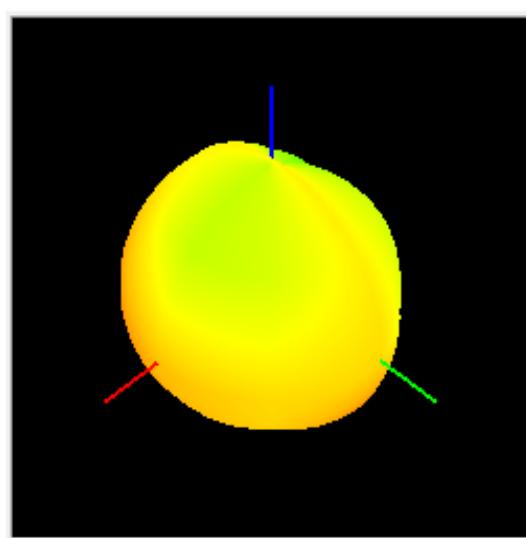
GSM850
-TIS



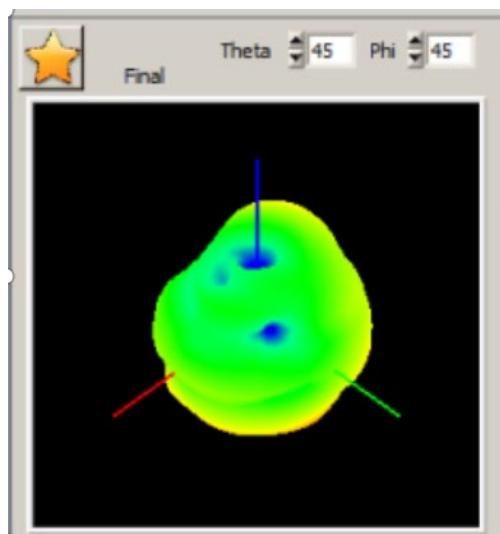
GSM900
-TRP



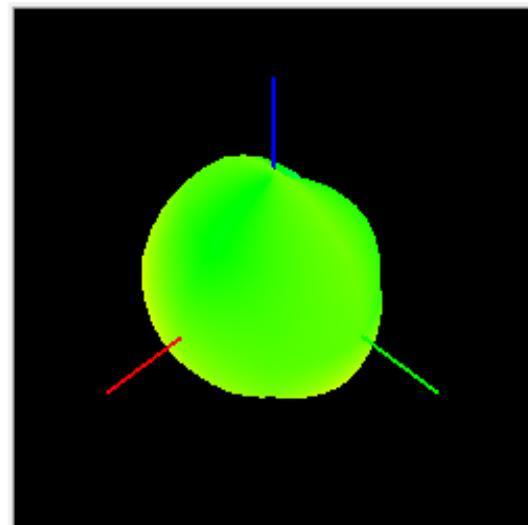
GSM900
-TIS



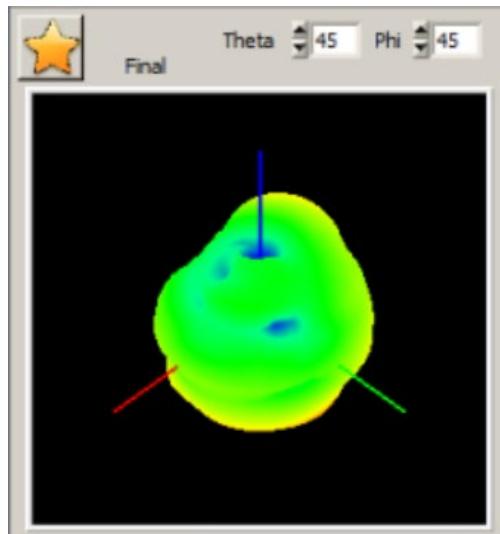
DCS1800
-TRP



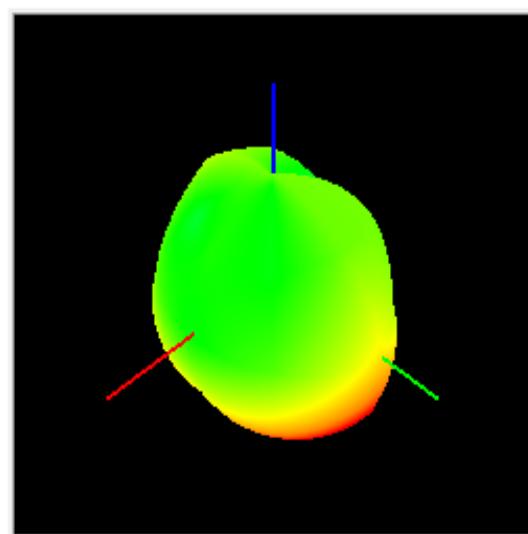
DCS1800
-TIS



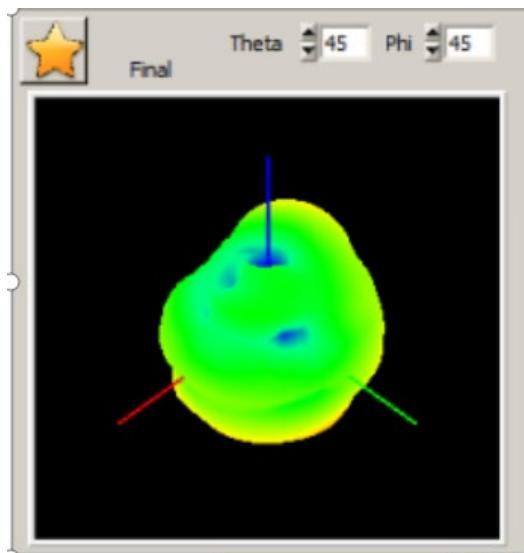
PCS1900
-TRP



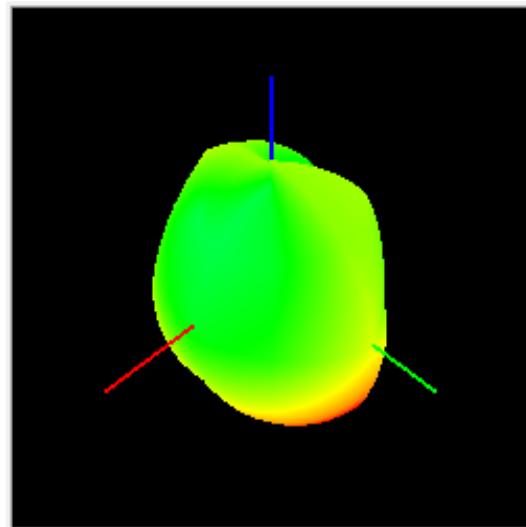
PCS1900
-TIS



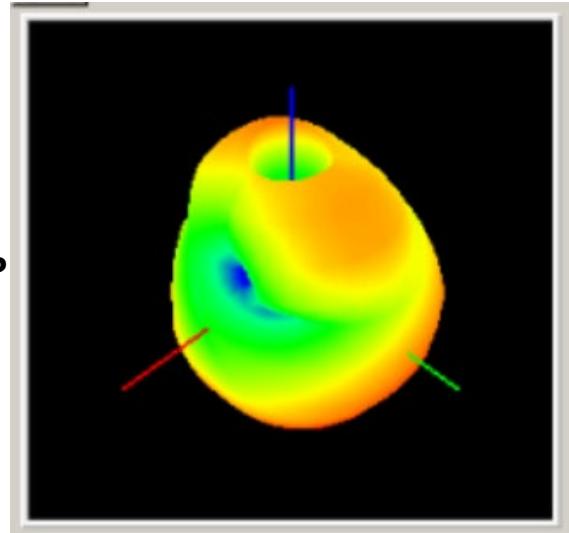
W2-TRP



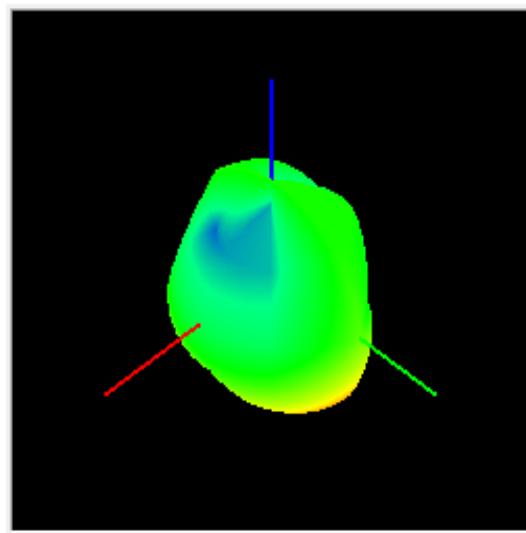
W2-TIS



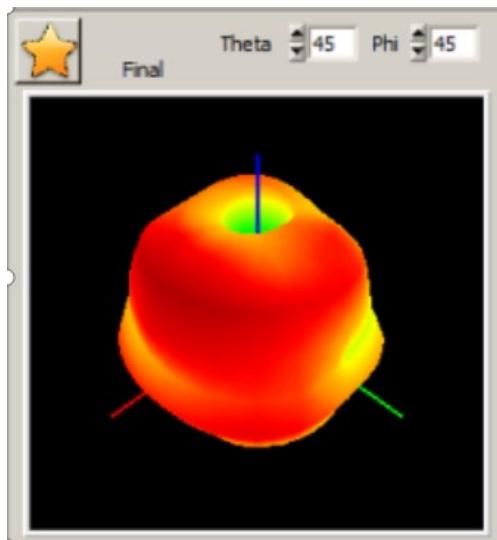
W5-TRP



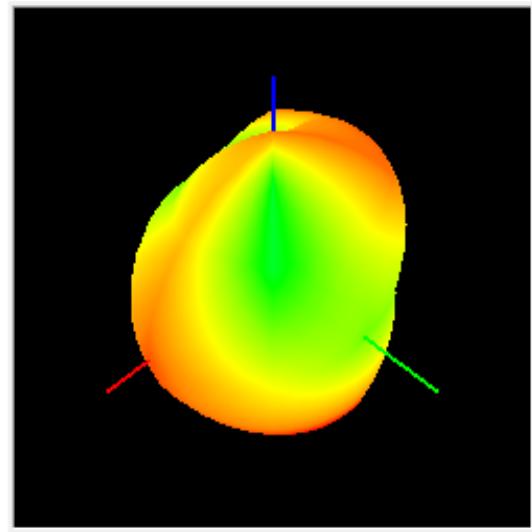
W5-TIS



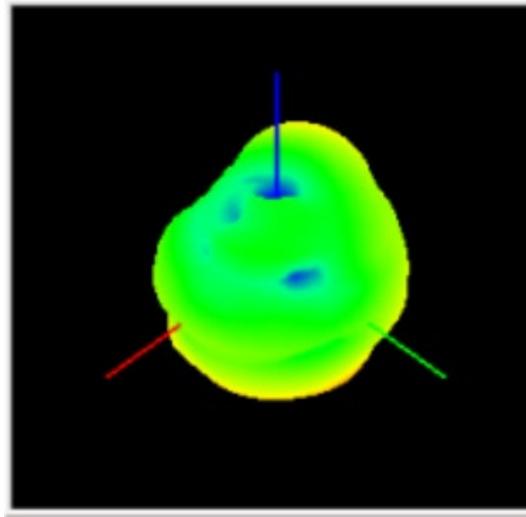
W4-TRP



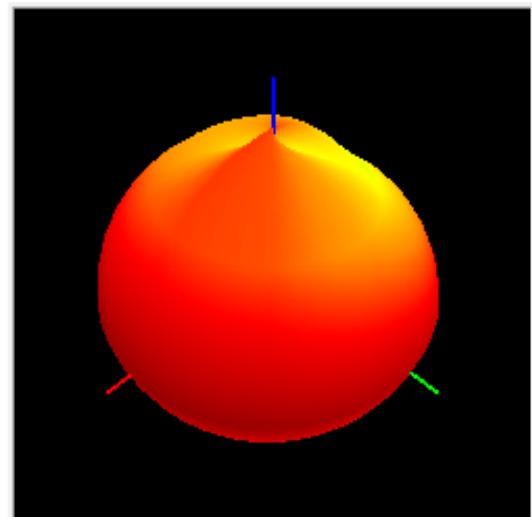
W4-TIS



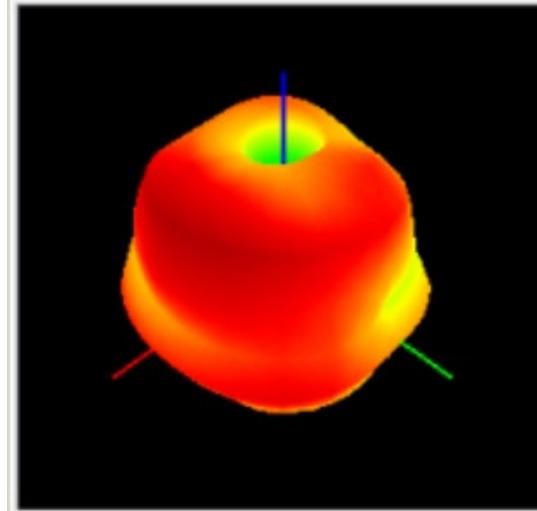
FDD-B2-
TRP



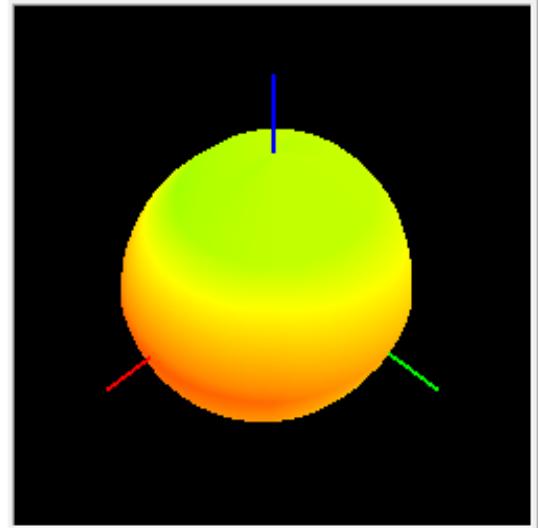
FDD-B2-
TIS



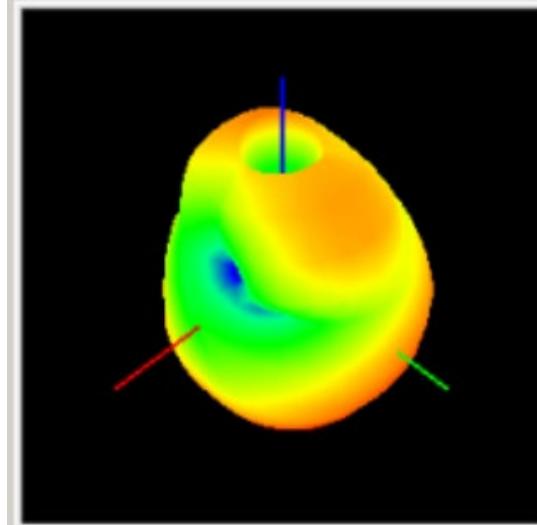
FDD-B4-
TRP



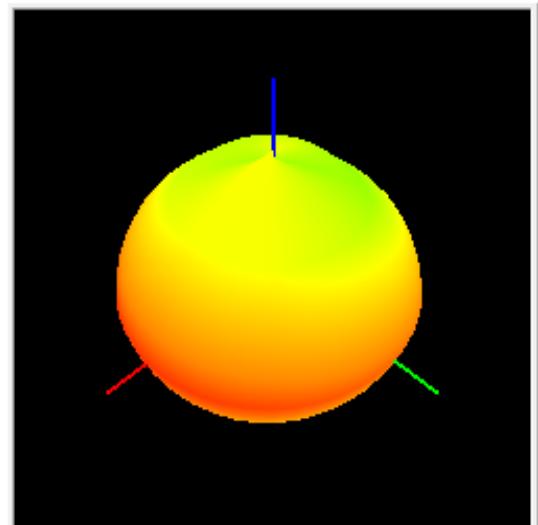
FDD-B4-
TIS



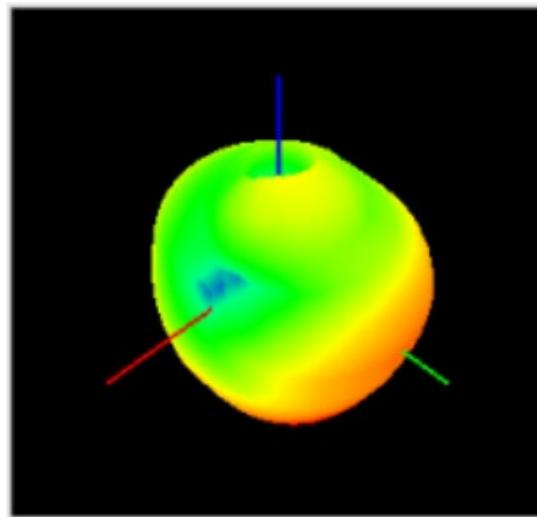
FDD-B5-
TRP



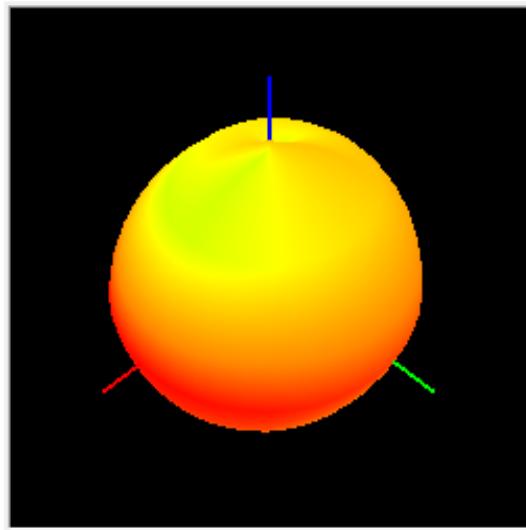
FDD-B5-
TIS



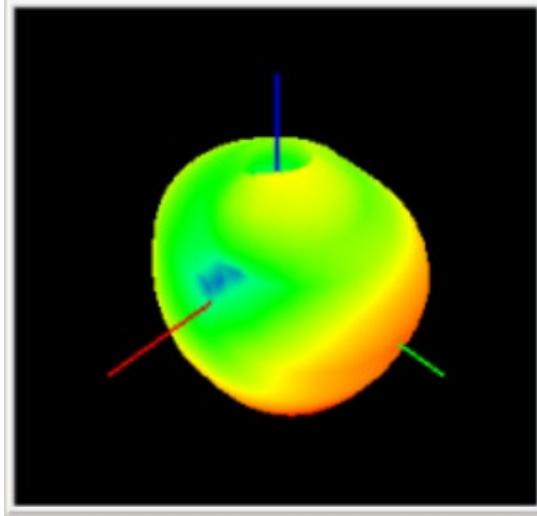
FDD-
B12-TRP



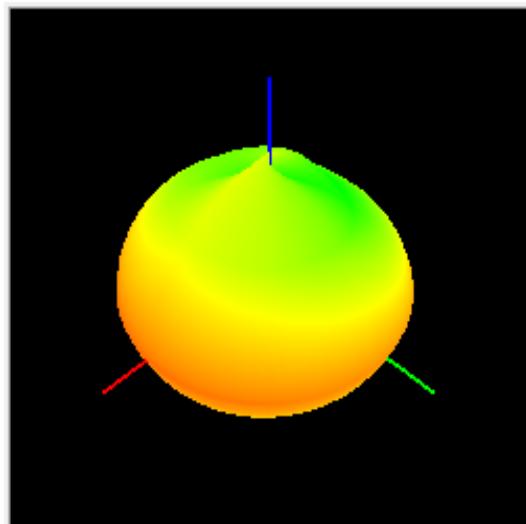
FDD-
B12-TIS



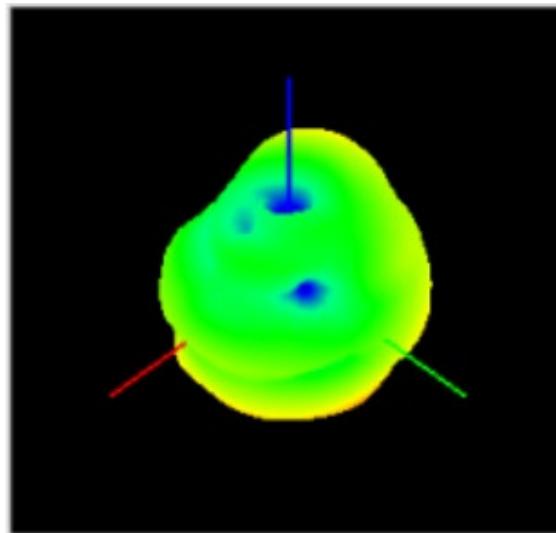
FDD-
B17-TRP



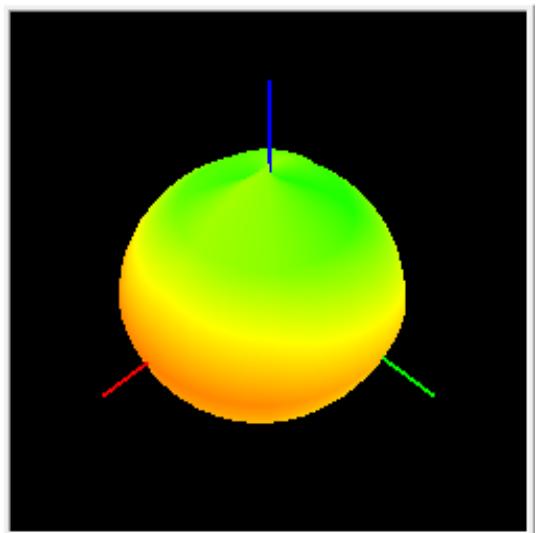
FDD-
B17-TIS



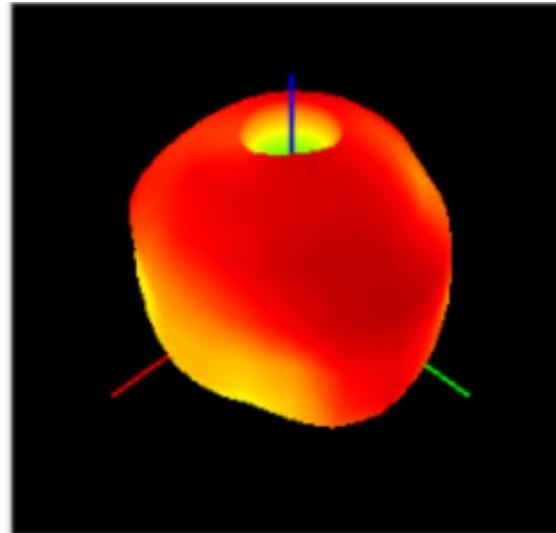
FDD-
B66-TRP



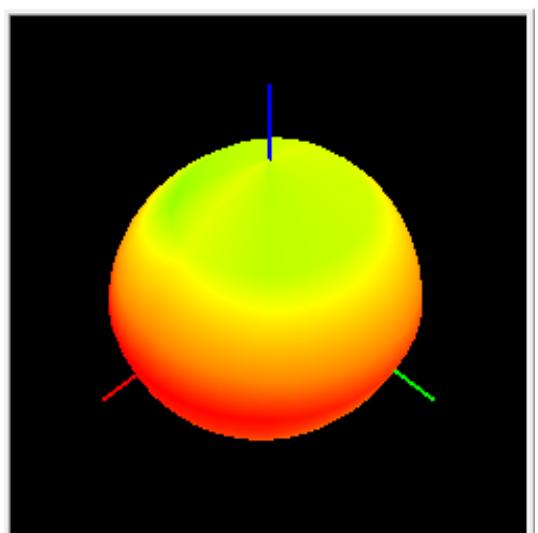
FDD-
B66-TIS



FDD-
B71-TRP



FDD-
B71-TIS



R53天线增益

Band	Max Gain
GSM850	0. 2dBi
GSM900	0. 23dBi
DCS1800	0. 5dBi
PCS1900	0. 57dBi
WCDMA1900	0. 57dBi
WCDMA1700	0. 5dBi
WCDMA850	0. 2dBi
BAND 2	0. 57dBi
BAND 4	0. 5dBi
BAND 5	0. 2dBi
BAND 12	0. 15dBi
BAND 17	0. 15dBi
BAND 66	0. 55dBi
BAND 71	0. 1dBi
GPS	0. 46dBi
Bluetooth/WiFi	0. 9dBi



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地址：深圳市福田区车公庙泰然工业区泰然九路211栋503室

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