

# EPC251-项目方案报告

## (EPC251—Project Proposal Report)

## 测试信息汇总 (Summary of testing information)

项目人员 (Project Personnel)			
射频(RF)	冯家能	结构 (structure)	覃乐
审核 (to examine)	韦进	业务 (business)	杨万里
公司地址 (Company Address)	深圳市宝安石岩石龙大道34号 (No. 34 Shilong Avenue, Shiyan, Bao'an, Shenzhen)		
项目信息 (project information)			
项目名称 (entry name)	EP-c251	机型版本 (Model version)	v2
天线类型 (Antenna type)	弹片 (shrapnel)	方案公司 (Solution Company)	中天迅
天线制式 (Antenna system)	2.4G+5G	日期 (date)	2023.06.30
备注：			

1

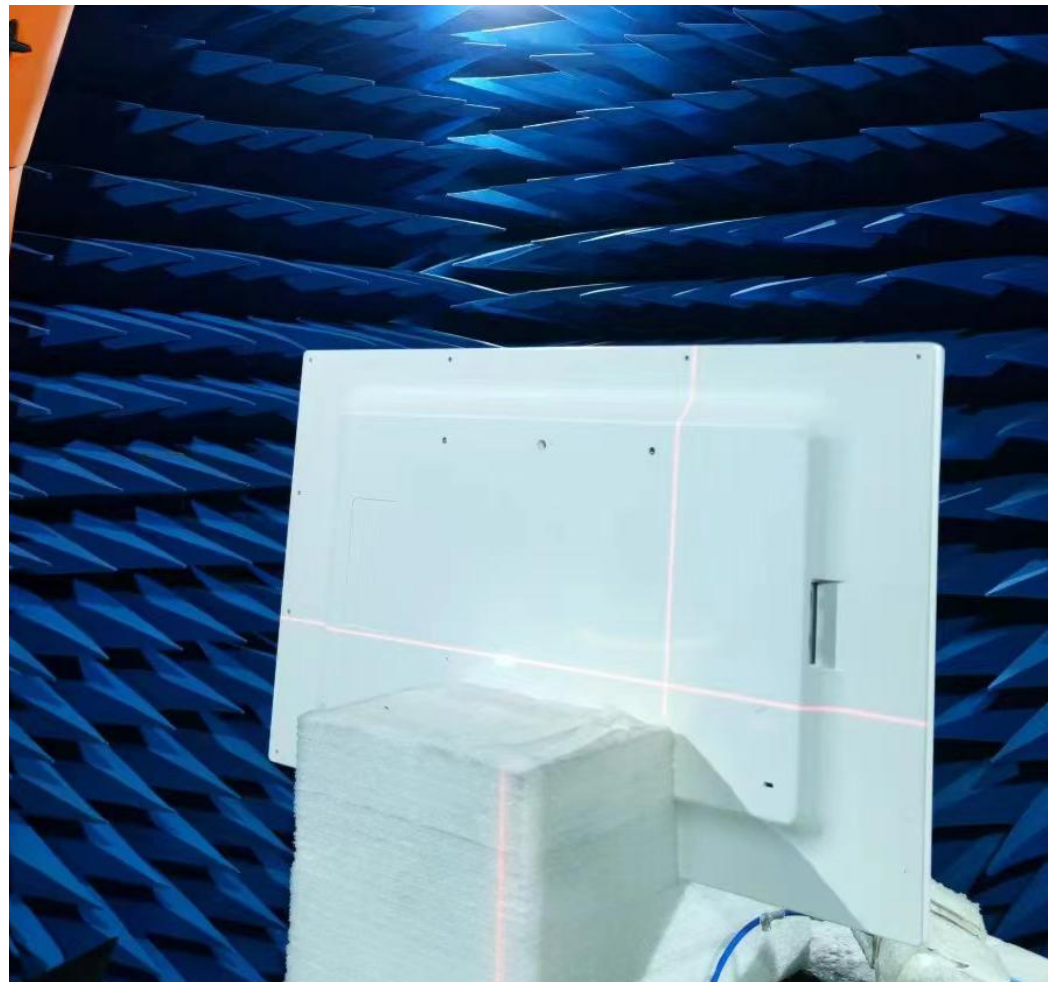
TEL:0755-27588360 /27572127 FAX:0755-27588320

Website:www.chinaztx.com

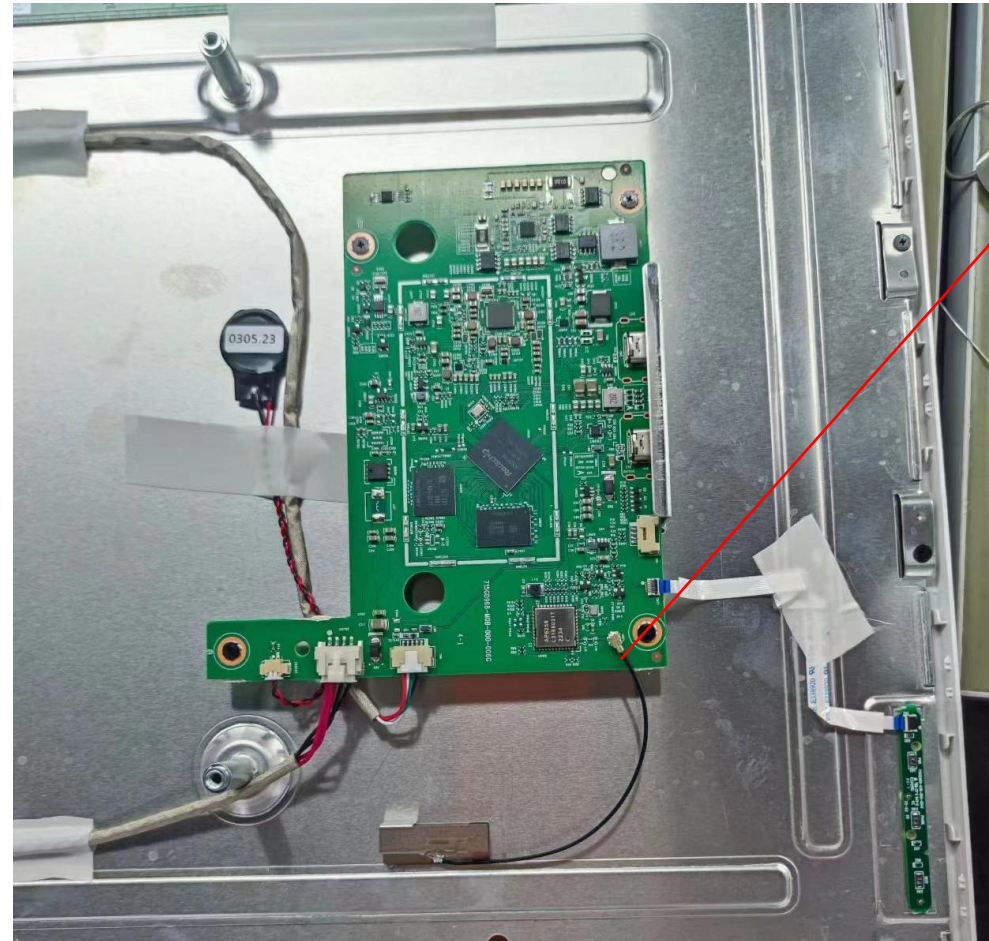
- ❑ 整体方案设计 ( overall scheme design )
- ❑ 天线调试数据 ( Antenna debugging data )

# 天线测试环境

## Antenna testing environment



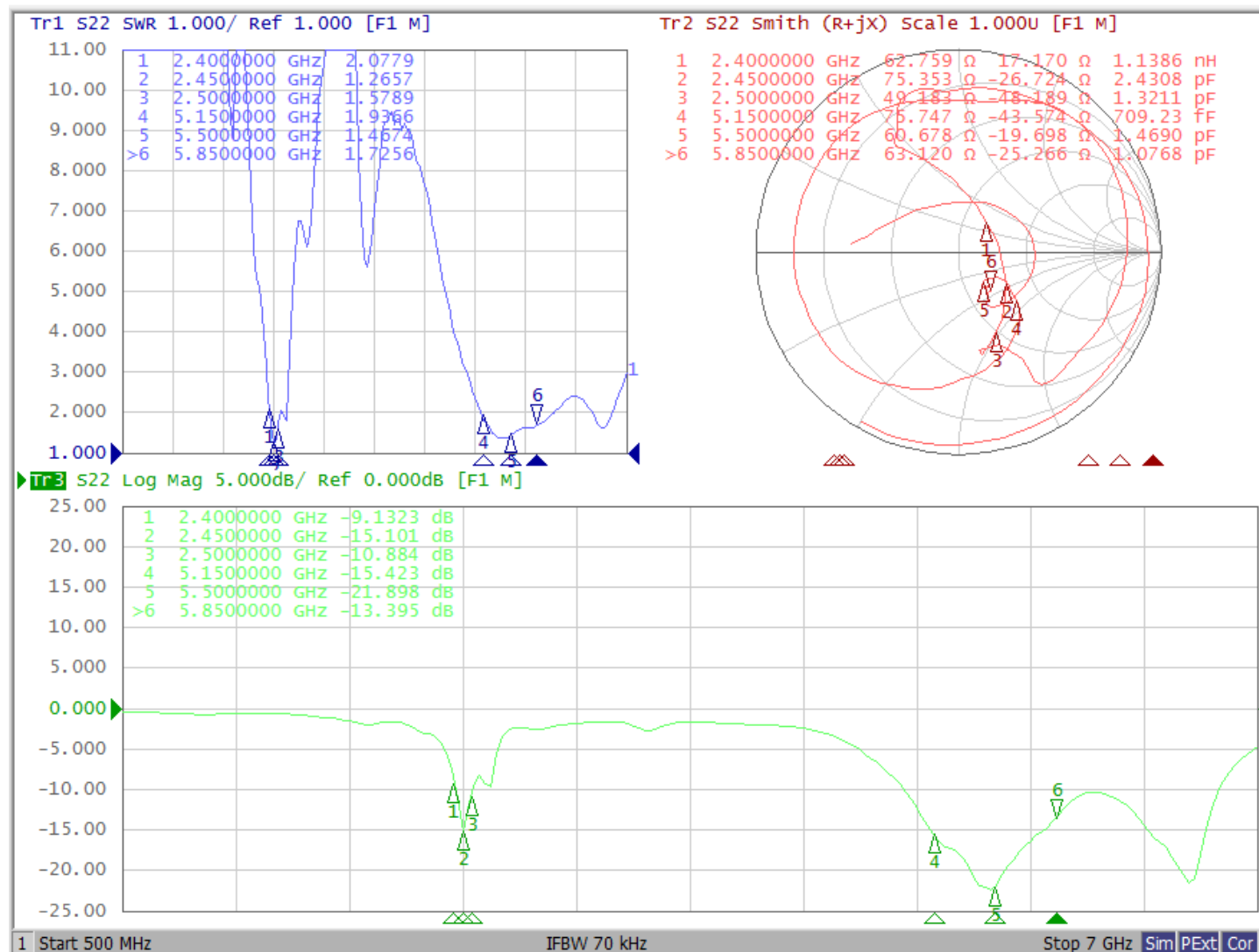
# 天线所在位置 (Location of antenna)



● ANT1

# 天线WiFi测试数据:VSWR

## (Antenna WiFi test data: VSWR)



# 天线WiFi测试数据:效率/增益

## (Antenna WiFi test data: efficiency/gain)

Frequency	Efficiency	Efficiency . dB	Gain . dB
2400	52%	-2.84	2.45
2410	53%	-2.76	2.54
2420	51%	-2.92	2.40
2430	52%	-2.84	2.42
2440	53%	-2.76	2.55
2450	54%	-2.68	2.67
2460	55%	-2.60	2.69
2470	55%	-2.60	2.41
2480	53%	-2.76	2.52
2490	53%	-2.76	2.42
2500	52%	-2.84	2.34

5150	52%	-2.84	1.50
5200	53%	-2.76	1.87
5250	53%	-2.76	1.41
5300	52%	-2.84	1.84
5350	53%	-2.76	2.28
5400	55%	-2.58	2.28
5450	55%	-2.57	2.37
5500	56%	-2.52	1.42
5550	52%	-2.84	2.28
5600	55%	-2.60	1.94
5650	54%	-2.68	1.45
5700	53%	-2.76	1.54
5750	54%	-2.68	1.67
5800	53%	-2.76	1.78
5850	52%	-2.84	2.22

# 天线WiFi2.4G OTA测试数据:TRP/TIS (Antenna WiFi2.4G OTA test data: TRP/TIS)



WIIF B(20M)	TRP (1M)	TIS (11M)
1	10.34	-84.21
6	10.55	-84.11
11	10.27	-83.41
WIIF G(20M)	TRP (6M)	TIS (54M)
1	11.33	-70.22
6	11.24	-70.47
11	11.28	-70.56
WIIF N(20M)	TRP (MCS0)	TIS (MCS7)
1	10.35	-67.21
6	11.02	-67.24
11	11.34	-67.4



# 天线WiFi 5G OTA测试数据:TRP/TIS (Antenna WiFi 5G OTA test data: TRP/TIS)

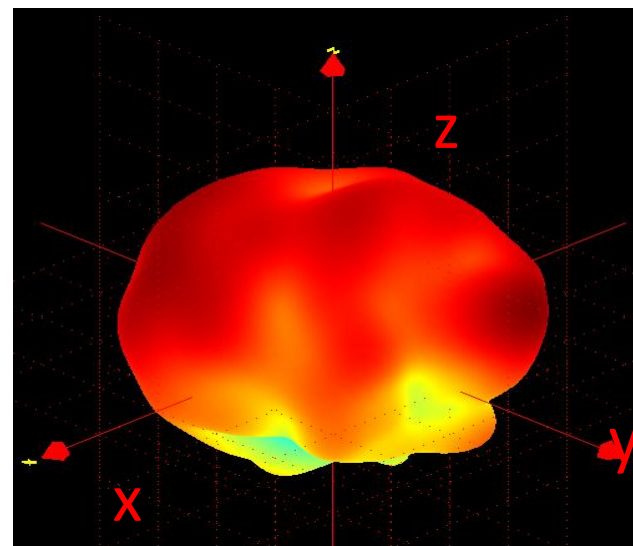
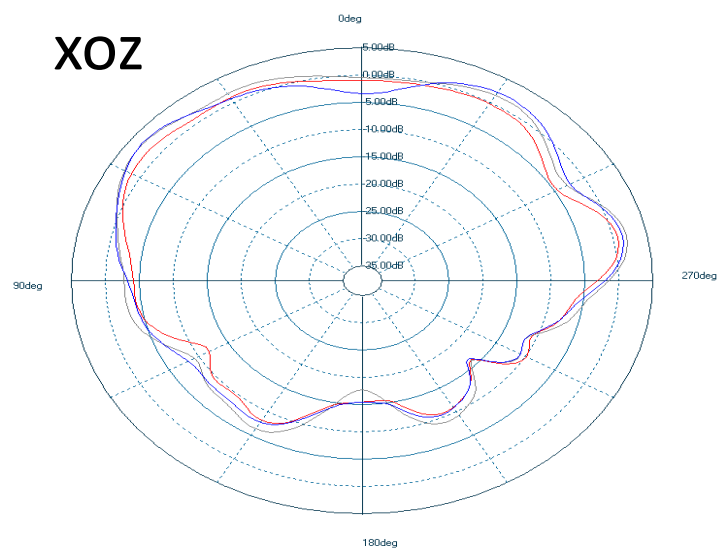
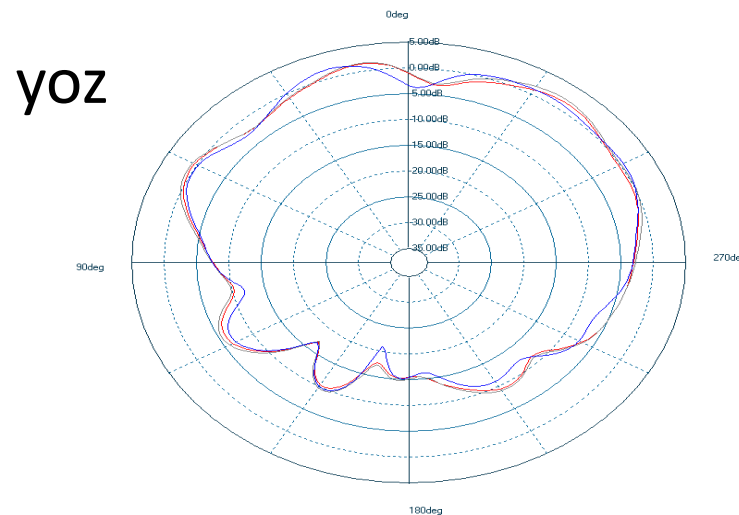
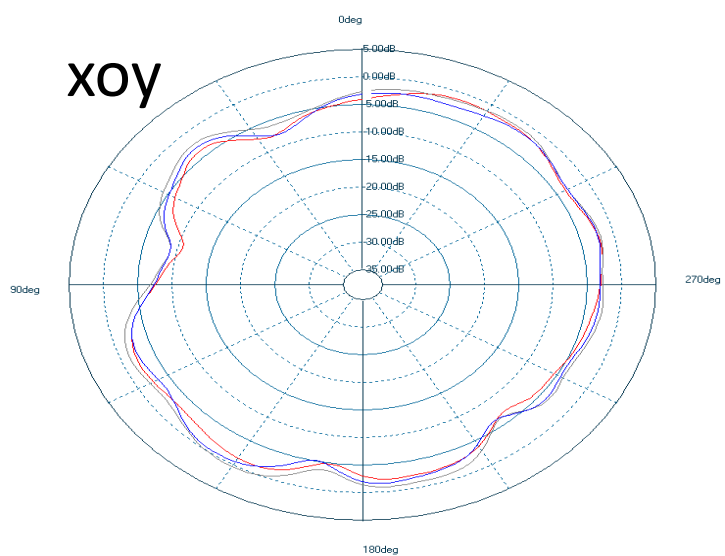
WIIF A(20M)	TRP(6M)	TIS(54M)
36	13.85	-70.82
64	14.02	-71.46
100	13.77	-71.55
WIIF N(20M)	TRP(MCS0)	TIS(MOS7)
36	13.57	-70.22
64	14.07	-70.34
100	13.74	-70.11
WIIF N(40M)	TRP(MCS0)	TIS(MCS3)
38	11.08	-75.14
62	11.21	-74.24
102	11.34	-74.33

# 天线WiFi 5G OTA测试数据:TRP/TIS (Antenna WiFi 5G OTA test data: TRP/TIS)

WIIF AC (20M)	TRP (MCS0)	TIS (MOS8)
36	12.98	-64.74
64	13.37	-64.58
100	13.09	-64.67
WIIF AC (40M)	TRP (MCS0)	TIS (MOS8)
38	10.84	-61.33
62	11.34	-62.09
102	10.79	-62.11
WIIF AC (80M)	TRP (MCS0)	TIS (MOS8)
42	9.88	-57.27
122	10.21	-58.07
155	10.42	-57.33

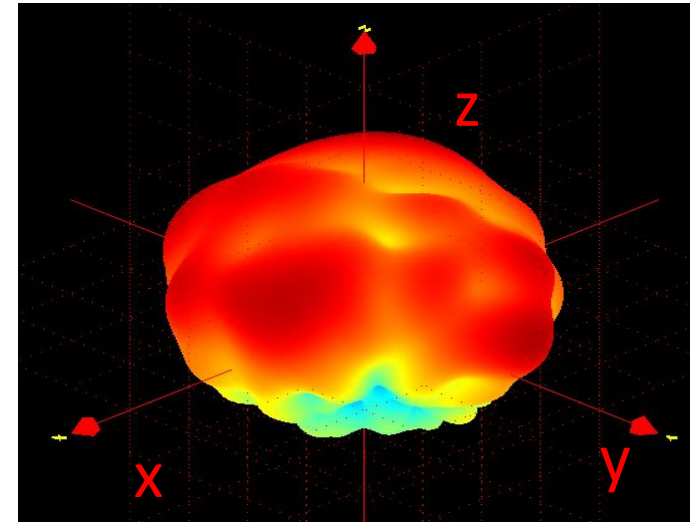
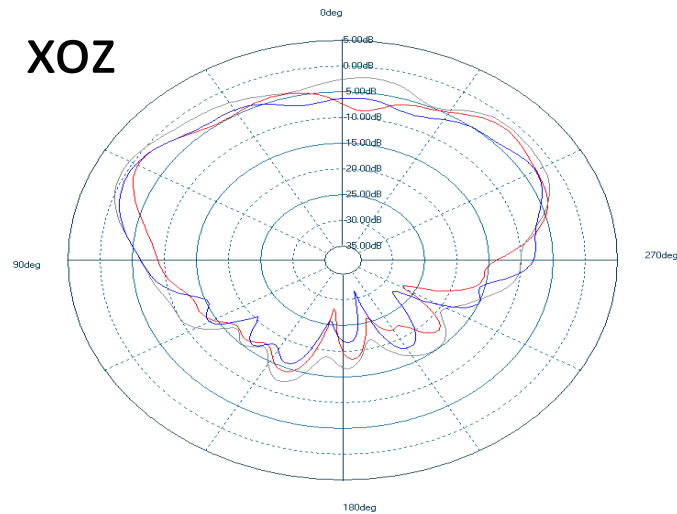
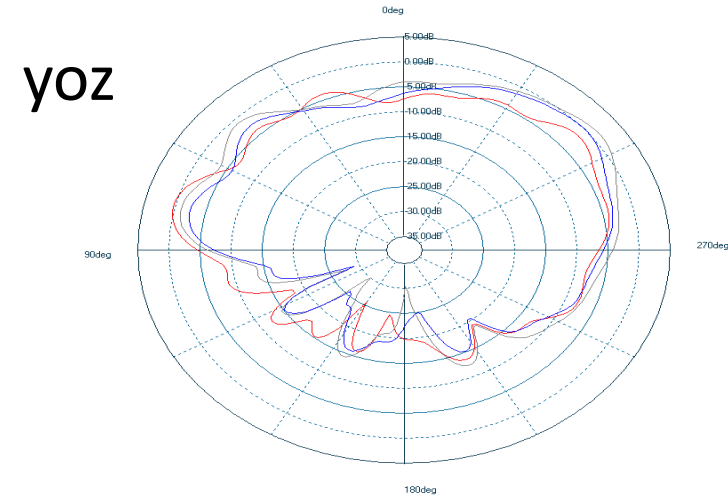
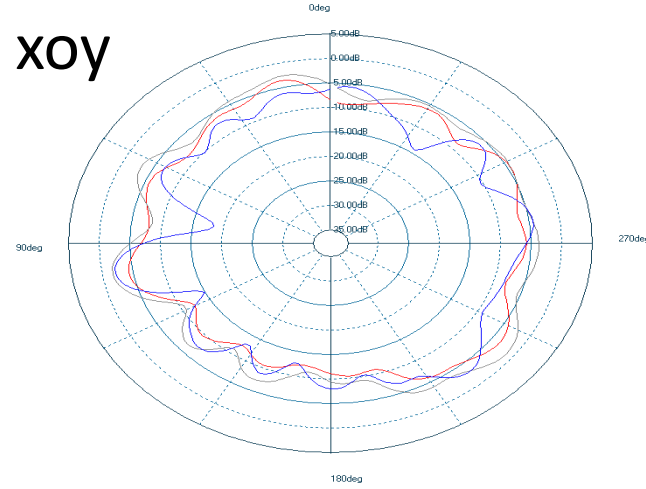
# 天线WiFi1 测试数据:2.4G方向图

(Antenna WiFi1 test data: 2.4G directional pattern)



# 天线WiFi1 测试数据:5G方向图

## (Antenna WiFi1 test data: 5G directional pattern)



# Thank You

