



Antenna Test Report

天线调试报告

Customer Name(客户名称) : Anker

Project Name (项目名称) : D2342

Date (日期) : 2024. 07. 23

办公地址: 深圳市宝安区石岩街道塘头一号路创维创新谷5C栋201

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Directory(目录)

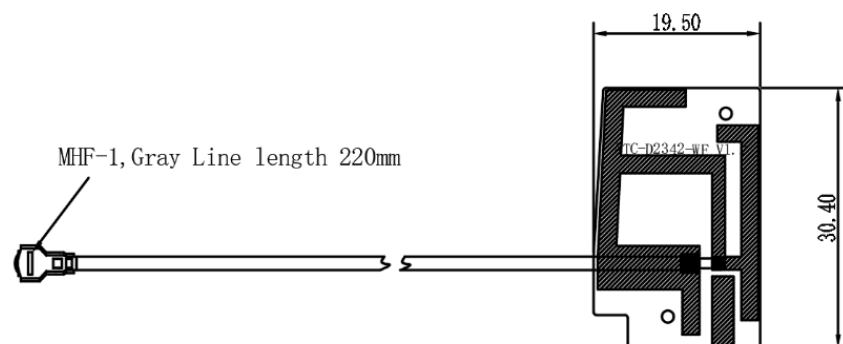
1.Project Overview(项目概况)	----- 3p
2.Antenna Information(天线信息)	----- 4p
3.Antenna Impedance Matching(天线阻抗匹配)	----- 5p
4.Antenna Passive(天线无源相关数据)	----- 6-9p
5.Antenna Radiation Pattern(天线辐射方向图)	----- 10p
6.Summary总结	----- 11p

● D2342_Project Overview(项目概况)

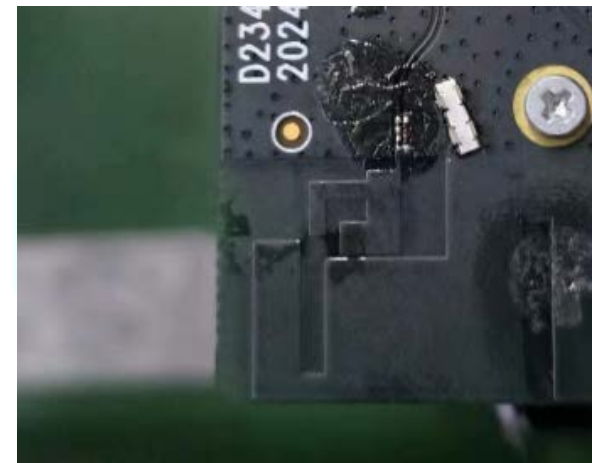
Prototype status (样机状态)	DVT
product type (产品类型)	Projector(投影仪)
Number of antennas (天线数量)	3pcs
Antenna frequency band (天线频段)	WIFI 0 802.11 a/b/g/n/ac
	WIFI 1 802.11 a/b/g/n/ac
	BT
structural style (结构形式)	FPC+CABLE线\PCBA antenna(板载天线)
environmental treatment (环境处理)	No changes (未做改动)
matching circuit (匹配电路)	No changes (未做改动)

● D2342_Antenna Information(天线信息)

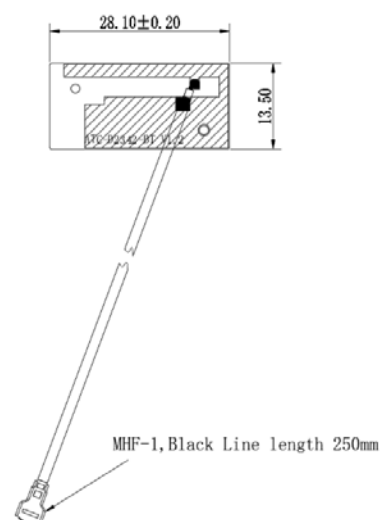
WIFI 0



WIFI 1

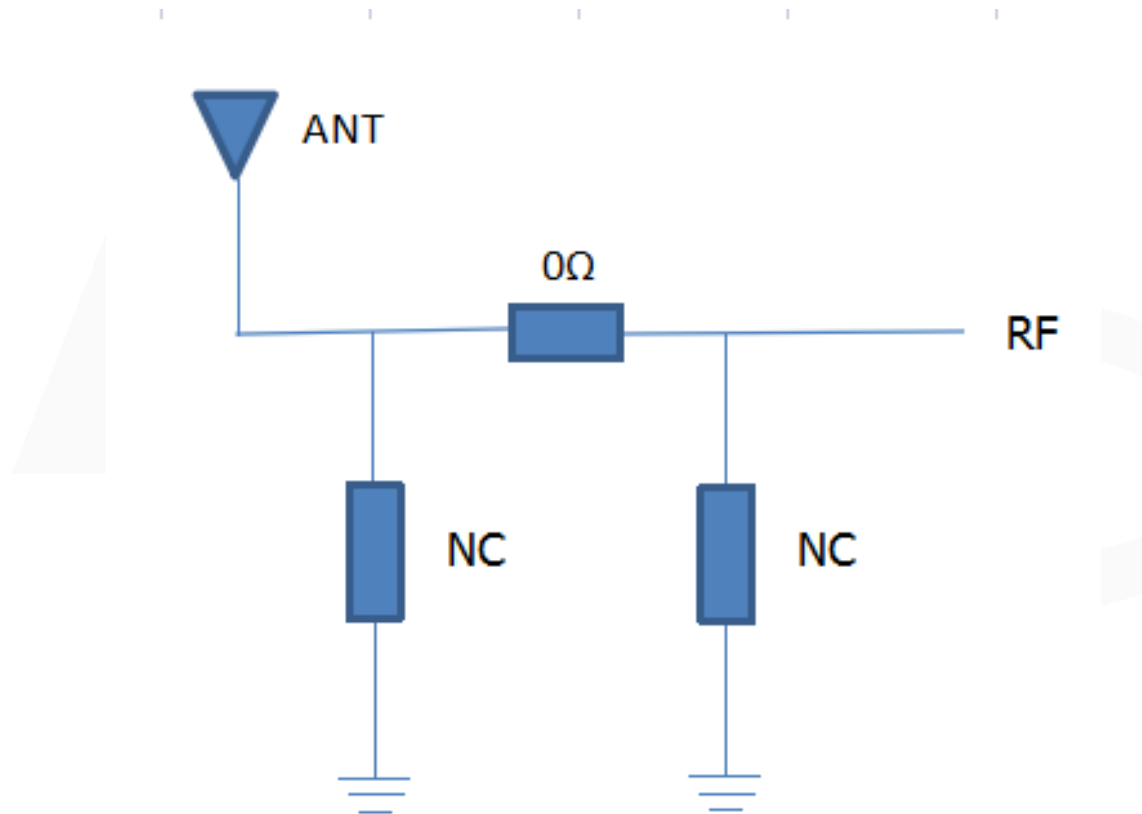


BT



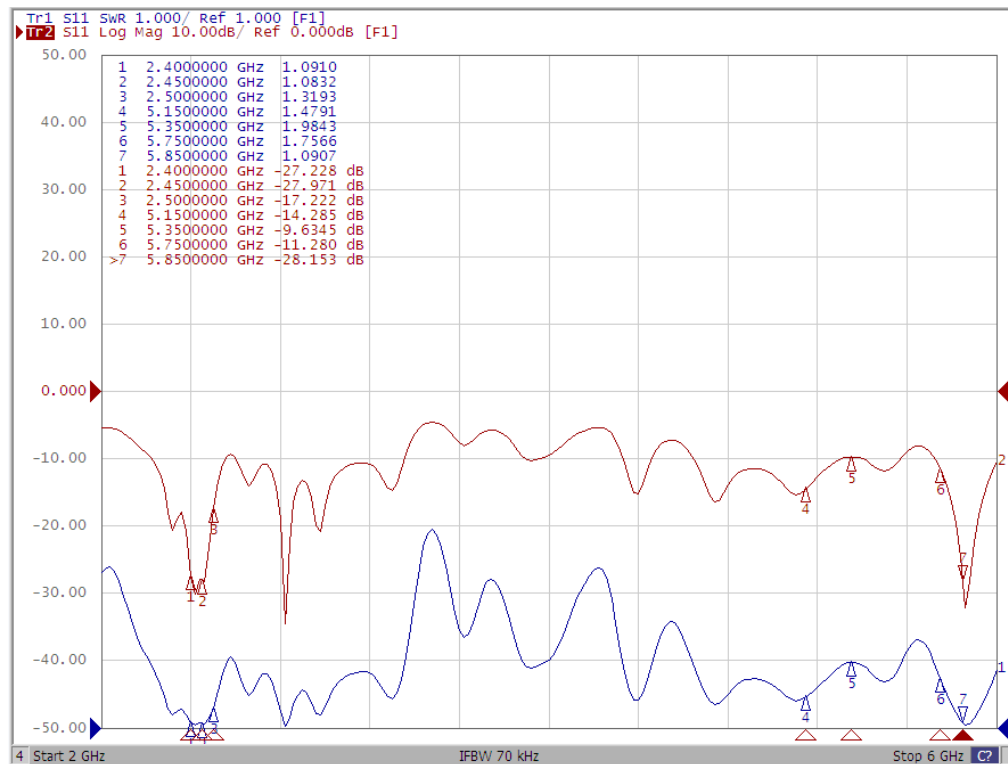
● D2342_Antenna Impedance Matching(天线阻抗匹配)

1. No changes were made to the matching of the three antennas(三个天线匹配均无更改)。

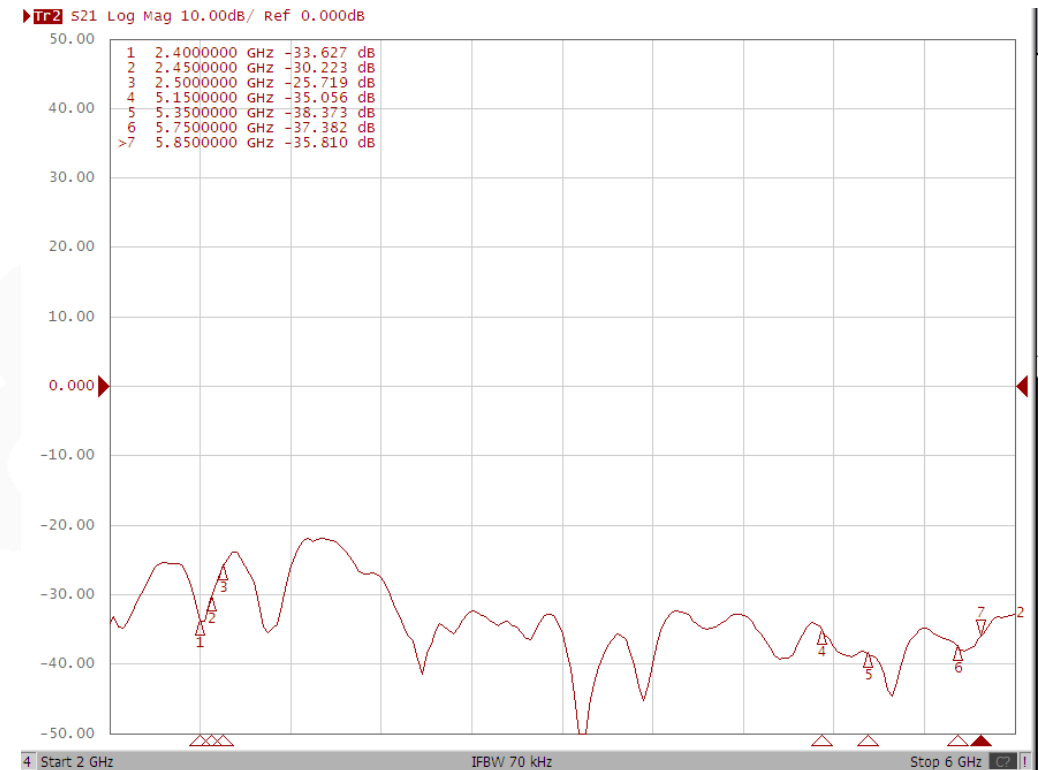


● D2342_WIFI 0_S11/VSWR (无源驻波比)

WIFI 0 antenna_VSWR (WIFI 0天线_VSWR)

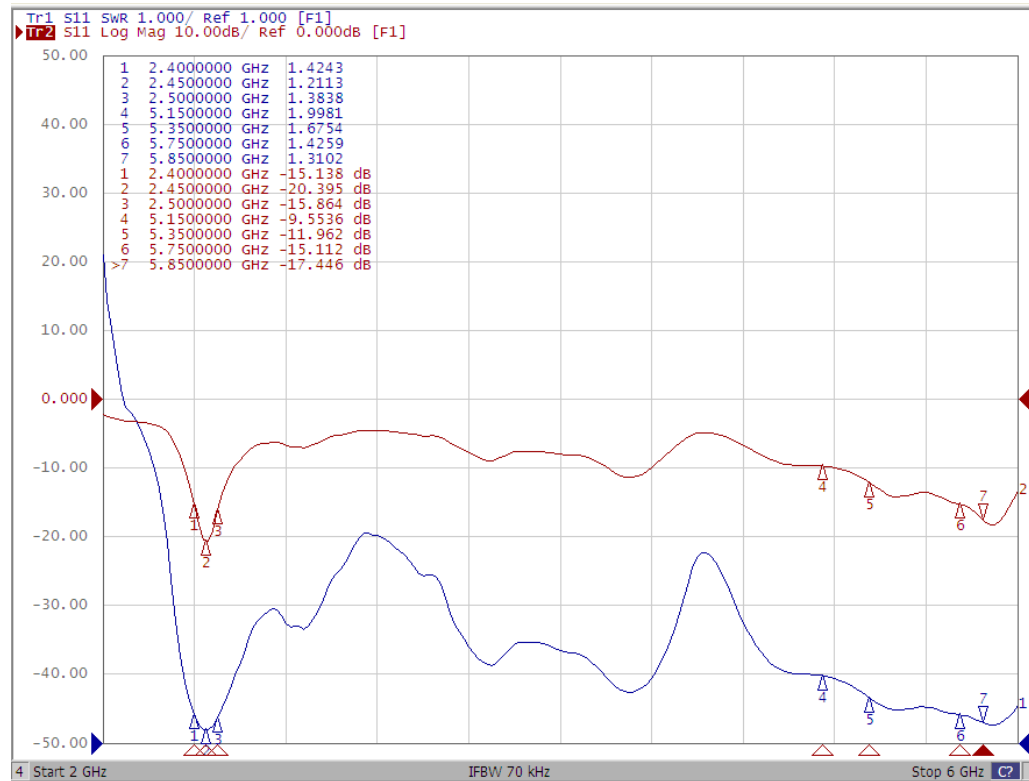


Isolation between WIFI 0 antenna and WIFI 1 antenna (WIFI 0天线与WIFI 1天线隔离度)

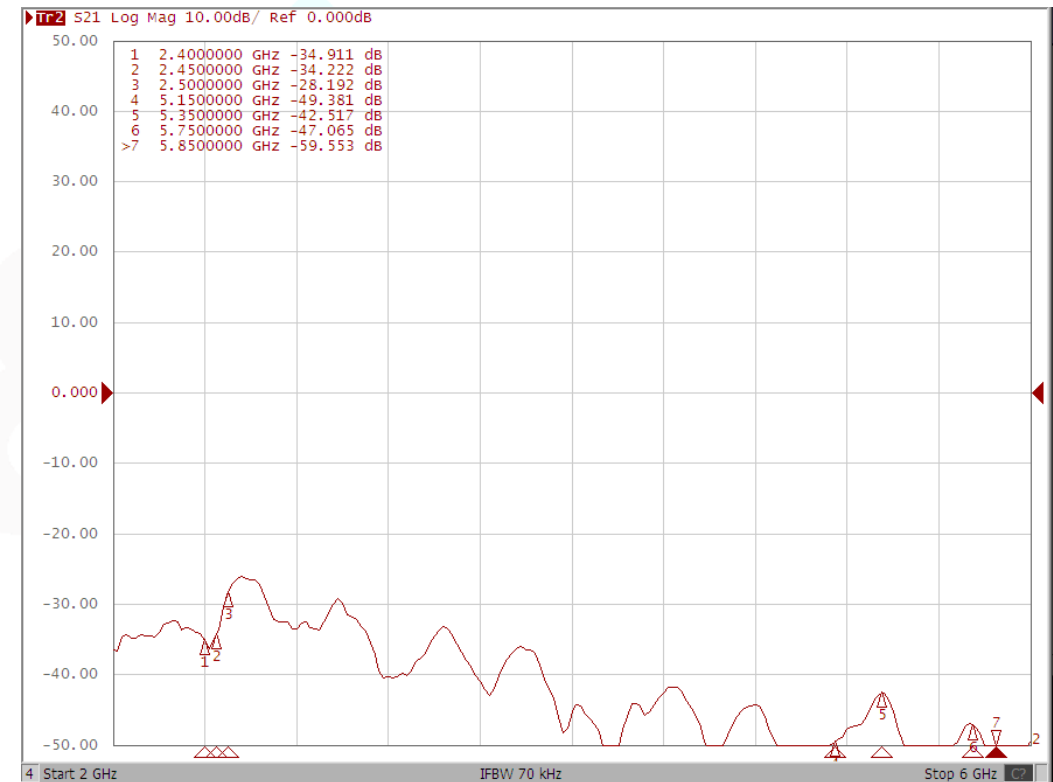


● D2342_WIFI 1_S11/VSWR (无源驻波比)

WIFI 1 antenna_VSWR (WIFI 1天线_VSWR)

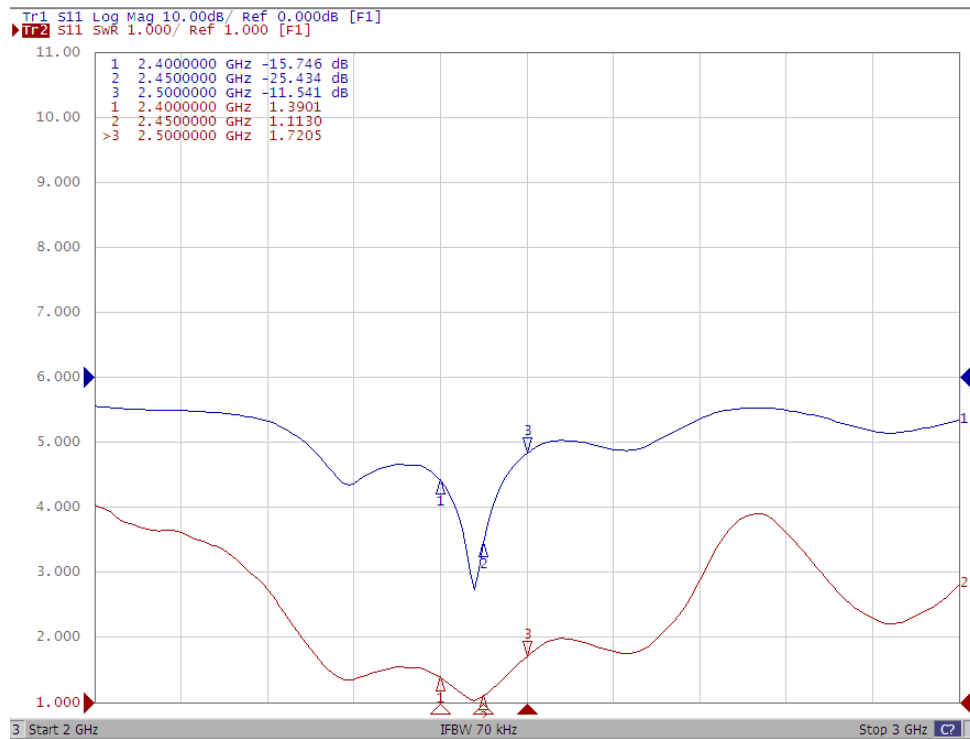


Isolation between WIFI 1 antenna and BT antenna (WIFI 1天线与BT天线隔离度)

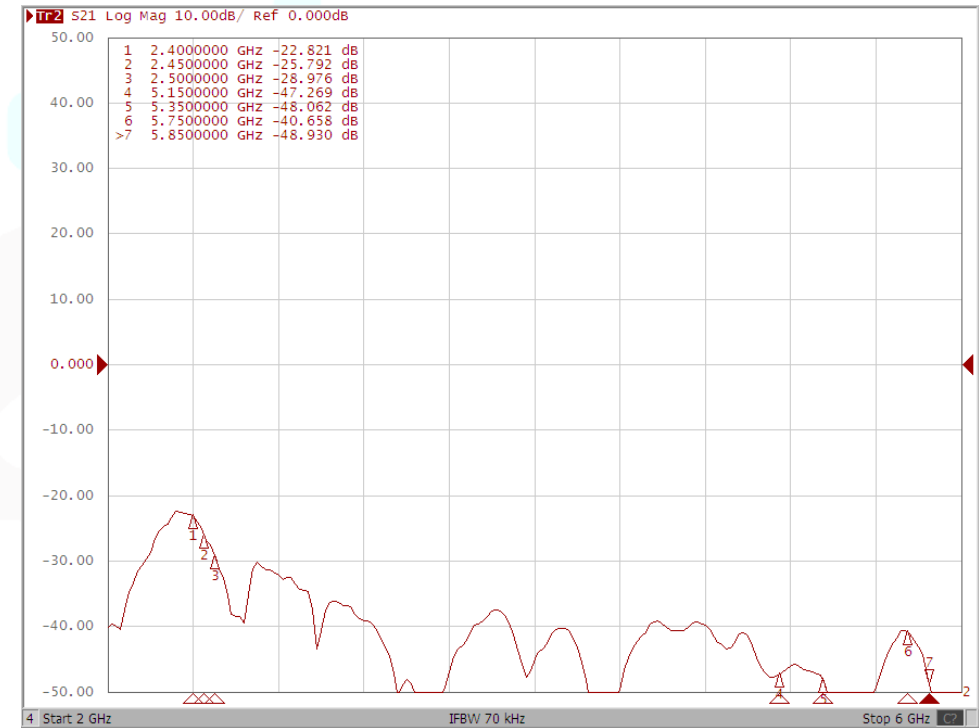


● D2342_BT_S11/VSWR (无源驻波比)

BT antenna_VSWR (BT天线_VSWR)



Isolation between WIFI 0 antenna and BT antenna (WIFI 0天线与BT天线隔离度)



● D2342 _Efficiency & Gain (无源效率和增益)

WIFI 1		
Frequency	Efficiency	Gain. dBi
2400	58%	5.55
2420	60%	5.56
2440	60%	5.59
2460	60%	5.63
2480	62%	5.59
2500	62%	5.94
5150	54%	4.69
5200	55%	4.66
5250	57%	4.51
5300	56%	4.95
5350	59%	4.88
5400	57%	3.77
5450	57%	3.78
5500	59%	4.10
5550	58%	4.08
5600	56%	3.89
5650	59%	4.34
5700	62%	4.56
5750	62%	4.83
5800	58%	4.30
5850	58%	3.90
5900	57%	4.43

WIFI 0		
Frequency	Efficiency	Gain. dBi
2400	51%	2.36
2420	52%	2.89
2440	52%	3.09
2460	53%	3.27
2480	54%	3.45
2500	54%	3.88
5150	41%	4.24
5200	41%	4.30
5250	42%	4.44
5300	43%	4.97
5350	42%	5.17
5400	40%	5.32
5450	40%	5.55
5500	40%	5.47
5550	37%	4.95
5600	34%	4.46
5650	36%	4.14
5700	37%	3.71
5750	38%	3.99
5800	38%	4.39
5850	42%	4.86
5900	40%	4.79

BT		
Frequency	Efficiency	Gain. dBi
2400	51%	4.69
2410	53%	4.83
2420	53%	4.85
2430	53%	4.77
2440	52%	4.64
2450	52%	4.61
2460	51%	4.45
2470	51%	4.23
2480	51%	3.95
2490	51%	3.76
2500	49%	3.42

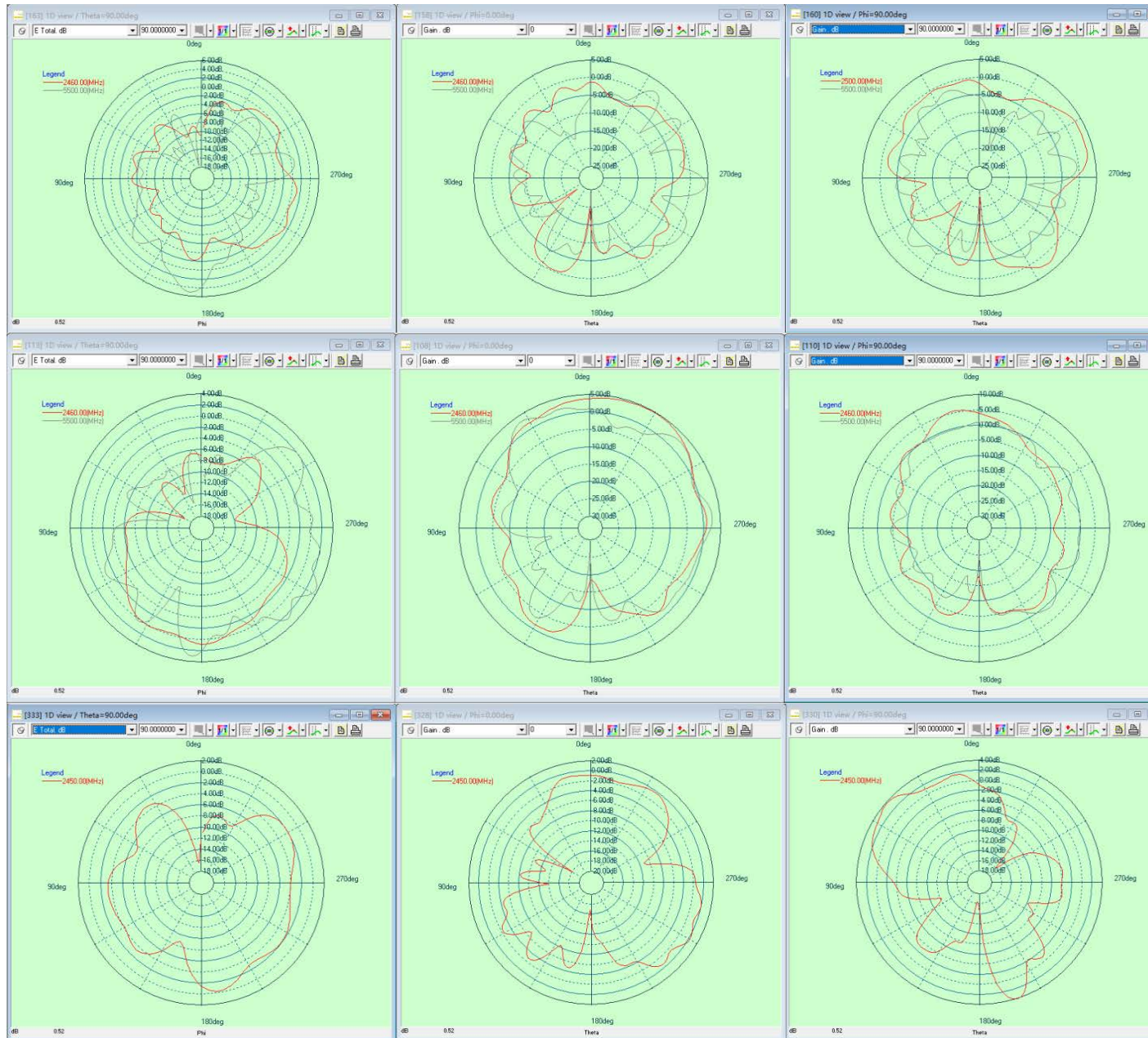
● D2342_2D Antenna Radiation Pattern(2D 天线辐射方向图)

1. The horizontal direction is the X-Y plane of the legend(水平方向为图例X-Y面)。

WIFI 0

WIFI 1

BT



● D2342 _Summary(总结)

- 1.The antenna matching has not changed, and the antenna performance is basically up to standard(天线匹配无更改, 天线性能基本达标)。
2. During assembly, pay attention to the position of the FPC sticker and follow the instructions, as well as ensure consistency in the placement of the coaxial line and good grounding(组装时注意FPC贴的位置按标示进行作业, 以及注意同轴线摆放一致性和接地的良好)。

*****If there are any changes to the machine, please notify our company; if there are any problems, please communicate promptly)*****

***** (如果机器有变化, 请通知我司; 如果有任何问题, 请及时沟通) *****

Thank You!!