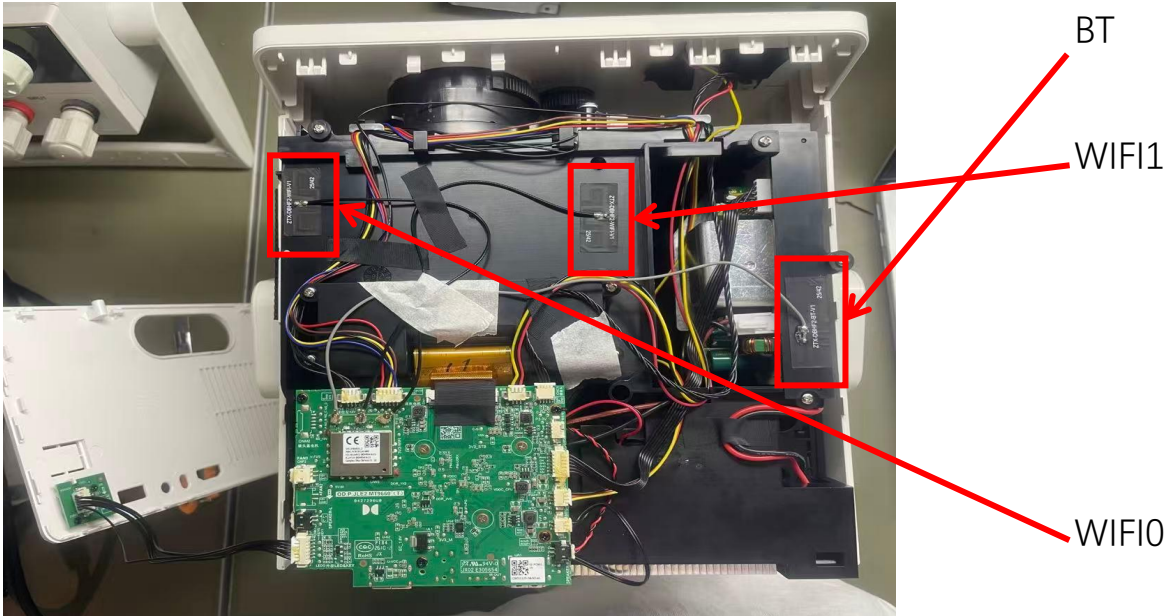


目录	
一：项目信息	
二：无源数据	
三：有源数据	
四：总结建议	

一：项目信息

版本信息			
版本	修改时间	修改人	更改内容
V1.0	2026/4/20	江博厚	

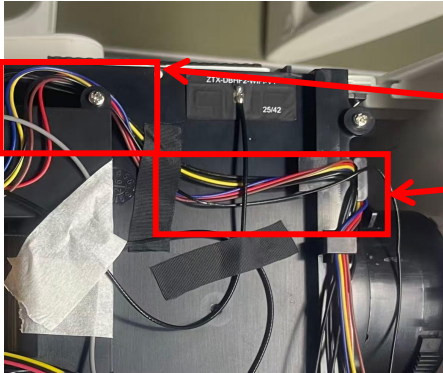
天线布局与方案设计



天线信息			
ANT	ANT nubrmer	Band	标准
WIFI	2	2400-2500 MHz 5150-5850 MHz	
BT	1	2400-2500 MHz	

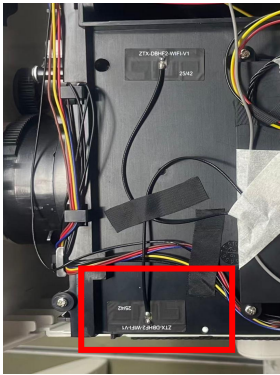
Two antenna are fully same.

天线环境处理

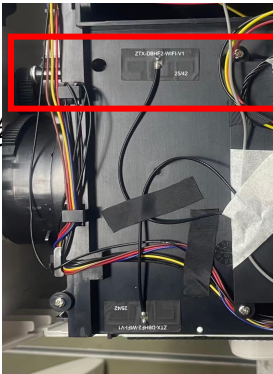


WIFI0附近线缆需胶带固定远离天线

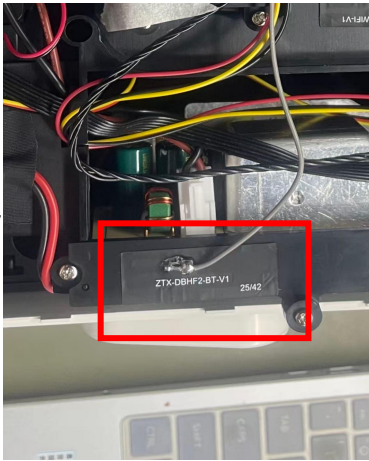
天线安装说明



WIFI0
目前使用DBHF2-WIFI-V1天线



WIFI1
目前使用DBHF2-WIFI-V1天线

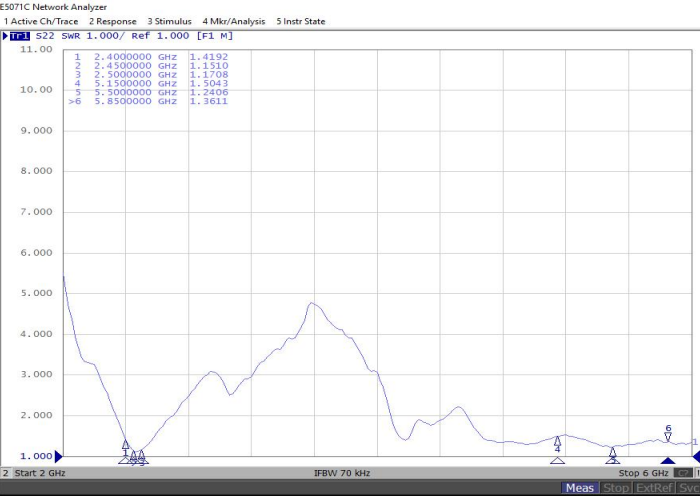


BT
目前使用DBHF2-BT-V1天线

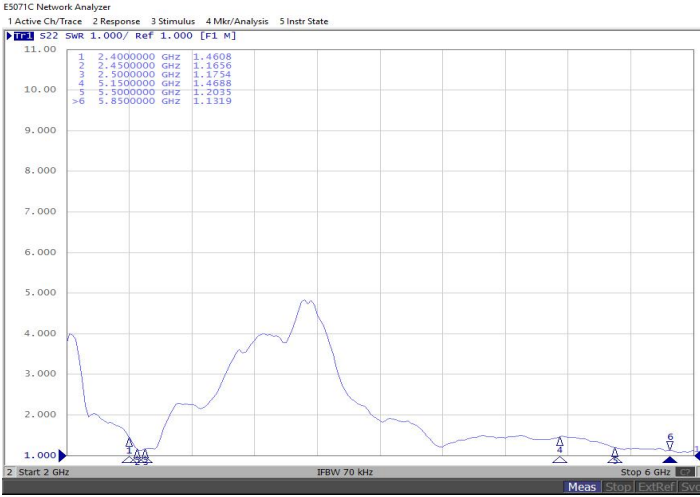
二：无源数据

VSWR

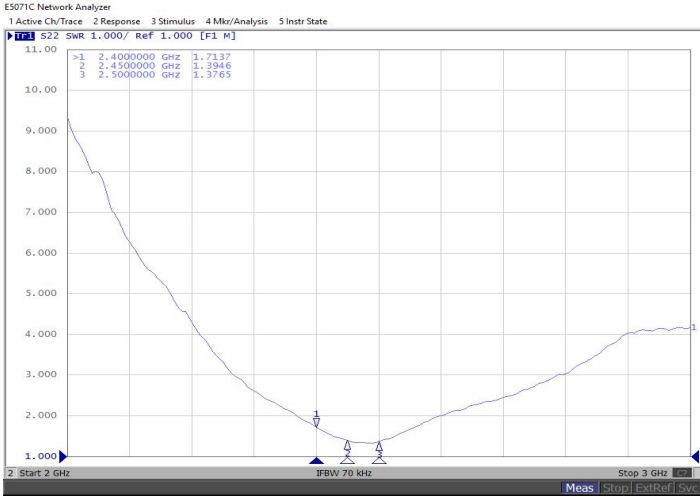
WIFI0



WIFI1



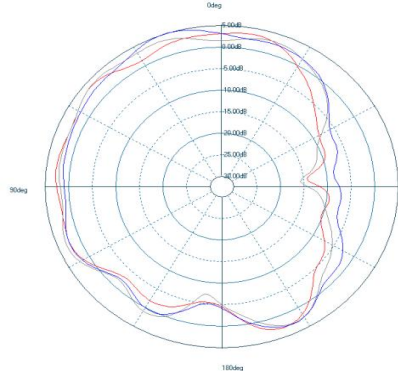
BT



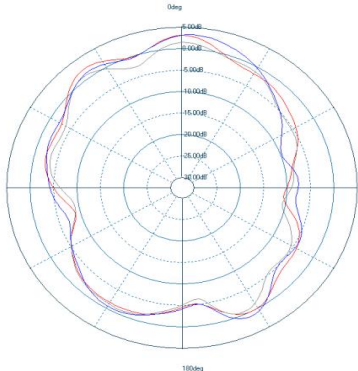
2D/3D test plots

WIFI0
2.4G

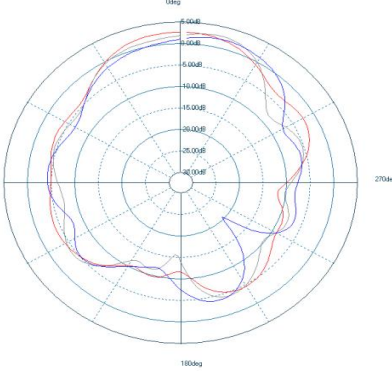
XOZ phi0°



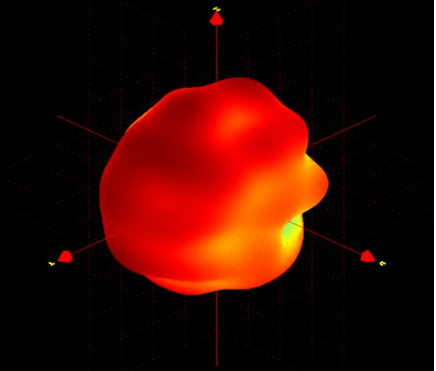
YOZ phi90°



XOY theta90°

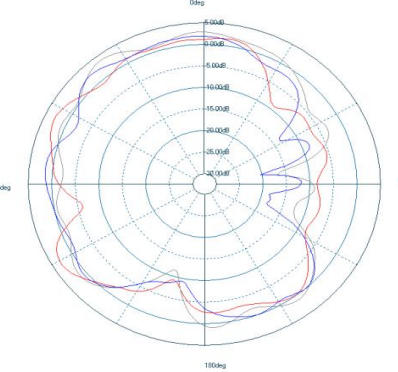


3D

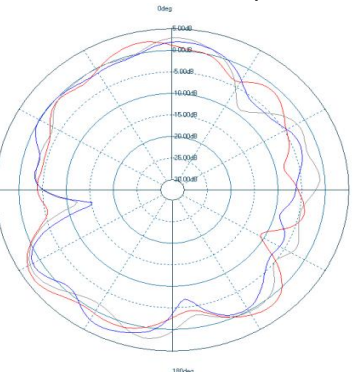


WIFI0
5G

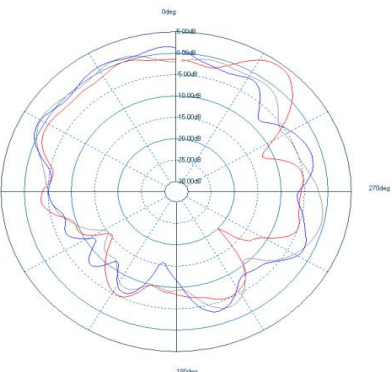
XOZ phi0°



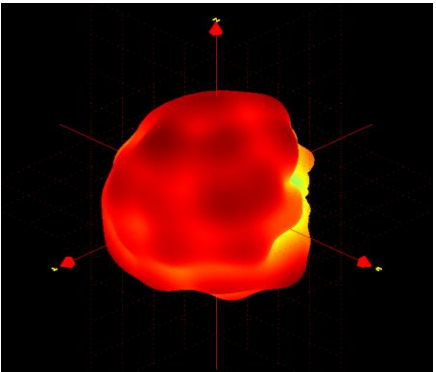
YOZ phi90°



XOY theta90°

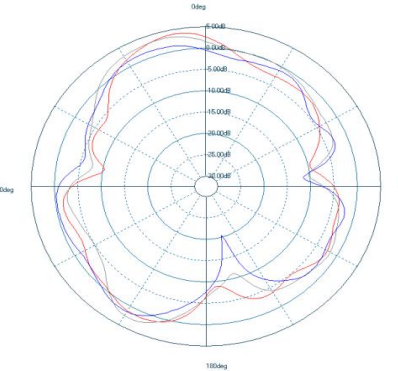


3D

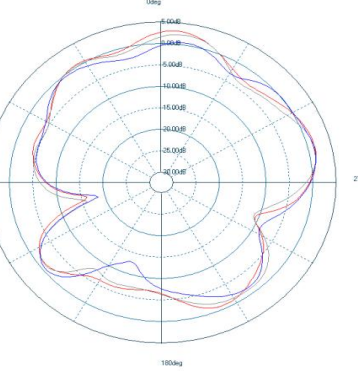


WIFI1
2.4G

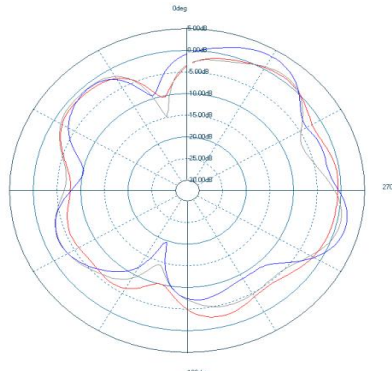
XOZ phi0°



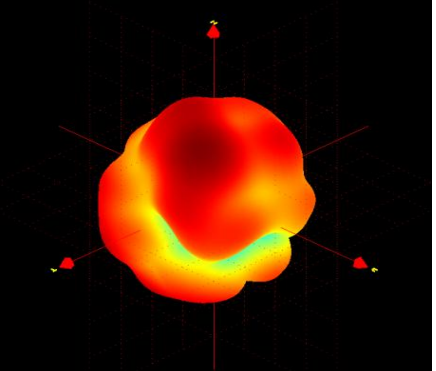
YOZ phi90°



XOY theta90°

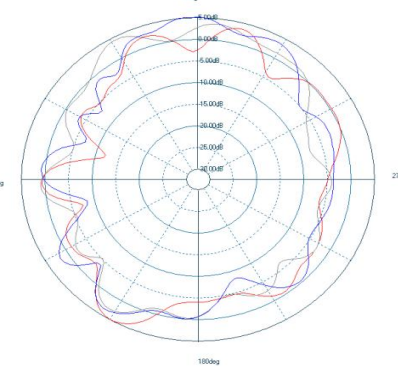


3D

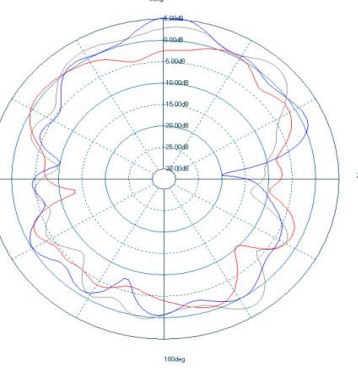


WIFI1
5G

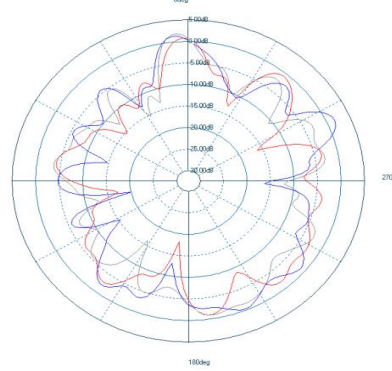
XOZ phi0°



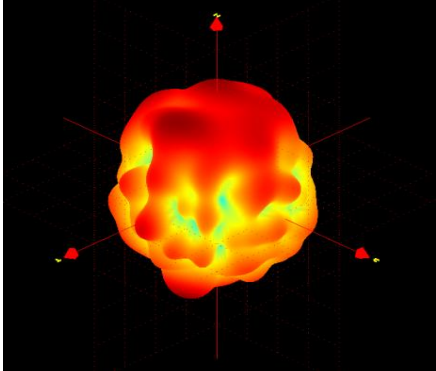
YOZ phi90°



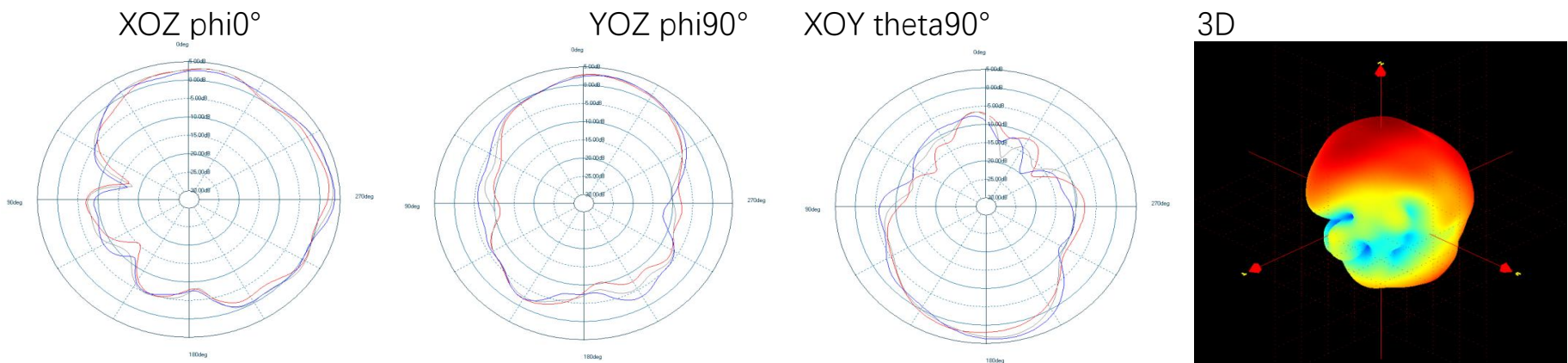
XOY theta90°



3D



BT
2.4G



Gain and Efficiency

WIFI0

Frequency	Efficiency	Efficiency . dB	Gain . dB
2400MHz	69%	-1.62	3.86
2410MHz	66%	-1.83	3.78
2420MHz	68%	-1.70	4.22
2430MHz	68%	-1.68	4.29
2440MHz	68%	-1.65	4.13
2450MHz	69%	-1.62	3.87
2460MHz	68%	-1.69	4.22
2470MHz	67%	-1.72	4.67
2480MHz	67%	-1.74	4.85
2490MHz	69%	-1.64	4.98
2500MHz	68%	-1.67	4.99
5150MHz	65%	-1.89	4.30
5200MHz	66%	-1.81	4.06
5250MHz	65%	-1.87	4.27
5300MHz	68%	-1.70	4.31
5350MHz	67%	-1.77	3.90
5400MHz	68%	-1.70	3.68
5450MHz	68%	-1.70	3.56
5500MHz	68%	-1.66	3.69
5550MHz	67%	-1.75	4.06
5600MHz	65%	-1.84	3.87
5650MHz	68%	-1.69	3.64
5700MHz	66%	-1.80	3.43
5750MHz	64%	-1.91	3.25
5800MHz	65%	-1.89	3.19
5850MHz	64%	-1.95	3.07

WIFI1

Frequency	Efficiency	Efficiency . dB	Gain . dB
2400MHz	58%	-2.38	4.89
2410MHz	57%	-2.48	4.58
2420MHz	59%	-2.29	4.58
2430MHz	61%	-2.17	4.70
2440MHz	62%	-2.08	4.94
2450MHz	62%	-2.06	4.99
2460MHz	60%	-2.21	5.08
2470MHz	61%	-2.16	5.22
2480MHz	60%	-2.19	5.06
2490MHz	61%	-2.13	4.94
2500MHz	62%	-2.10	4.80
5150MHz	57%	-2.48	5.68
5200MHz	56%	-2.53	5.28
5250MHz	55%	-2.63	4.22
5300MHz	58%	-2.37	4.75
5350MHz	57%	-2.46	5.35
5400MHz	59%	-2.27	5.66
5450MHz	59%	-2.30	5.33
5500MHz	60%	-2.24	4.91
5550MHz	59%	-2.29	5.14
5600MHz	59%	-2.27	5.33
5650MHz	57%	-2.41	5.76
5700MHz	57%	-2.41	5.51
5750MHz	58%	-2.33	5.00
5800MHz	60%	-2.25	5.39
5850MHz	60%	-2.20	5.50

BT

Frequency	Efficiency	Efficiency . dB	Gain . dB
2400MHz	51%	-2.96	3.36
2410MHz	51%	-2.97	3.25
2420MHz	52%	-2.82	3.08
2430MHz	53%	-2.72	3.08
2440MHz	53%	-2.76	3.34
2450MHz	54%	-2.69	3.61
2460MHz	54%	-2.69	3.79
2470MHz	55%	-2.64	3.63
2480MHz	55%	-2.62	3.70
2490MHz	55%	-2.56	4.00
2500MHz	55%	-2.61	3.86

三：有源数据

11B	TRP	TIS
1	17.18	-76.69
6	17.02	-76.22
11	17.08	-76.77
11G		
1	15.12	-67.38
6	15.07	-68.48
11	15.33	-68.61
11N		
1	15.19	-64.39
6	15.21	-63.65
11	15.28	-64.75
11A		
36	16.02	-77.94
149	16.9	-79.23
165	16.57	-79.05

BT	TRP	TIS
0	-0.9	-83.46
39	-1.02	-85.85
78	-1.01	-85.47

四：总结建议

天线无源、有源数据整体可以满足客户需求。

