

天 线 测 试 报 告

客户名称：长虹网络

项目型号：GH104

评估日期：2023-09-15

版本	内容	更新原因	日期
1.0	天线测试	首次发行	2023-09-15

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客户名称:	长虹网络
项目名称	GH104
天线数量	2
天线频段	2400-2500/5150-5850 MHz
结构形式	板载天线

天线及结构形式



WiFi-2天线

WiFi-1天线

WIFI-1 天线 S11 测试性能图

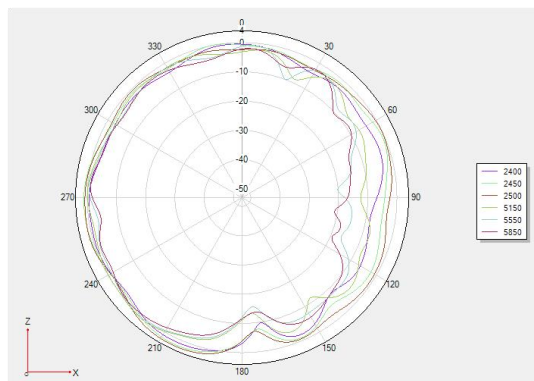


WIFI-1 天线无源测试数据

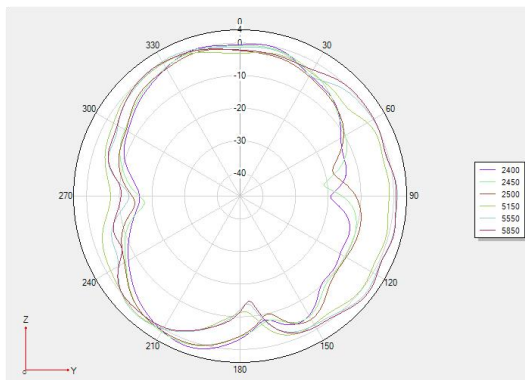
Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	63.48	2.46
2410	56.71	2.67
2420	61.89	2.95
2430	57.63	1.92
2440	61.23	2.40
2450	60.08	2.42
2460	62.28	2.35
2470	62.54	2.02
2480	60.21	2.23
2490	61.49	2.02
2500	62.28	2.81
5150	57.12	2.70
5250	52.42	2.85
5350	53.19	2.02
5450	54.77	2.82
5550	53.19	2.40
5650	51.88	2.88
5750	50.83	2.3
5850	50.35	2.33

WIFI-1 天线无源 2D\3D 图

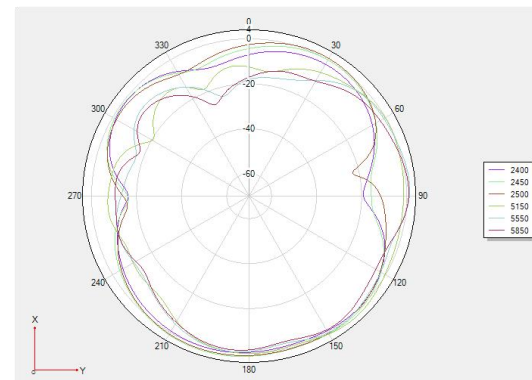
Phi 0 2D图



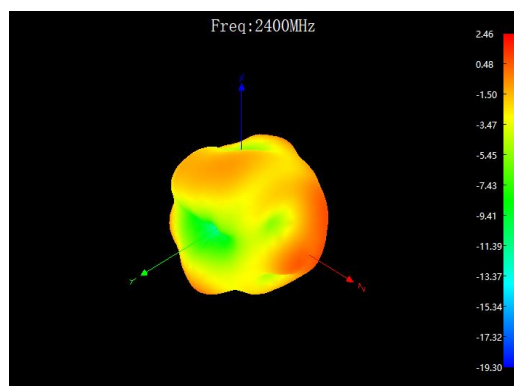
Phi 90 2D图



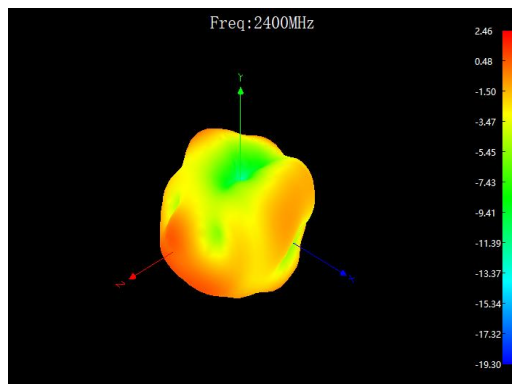
Theta 90 2D图



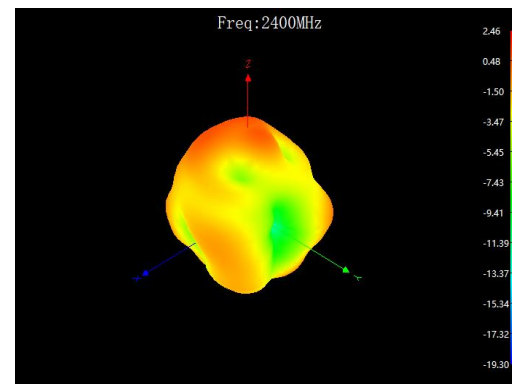
2400MHz



2400MHz

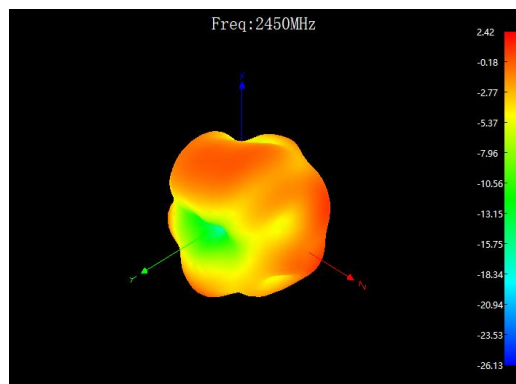


2400MHz

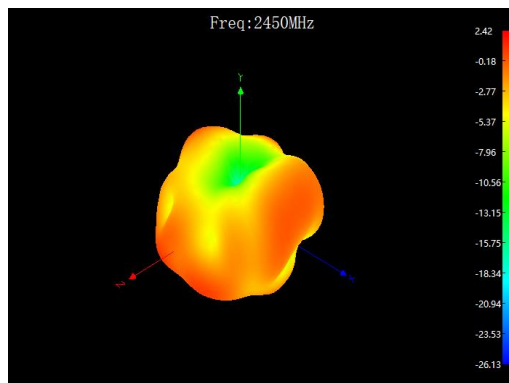


WIFI-1 天线无源 2D\3D 图

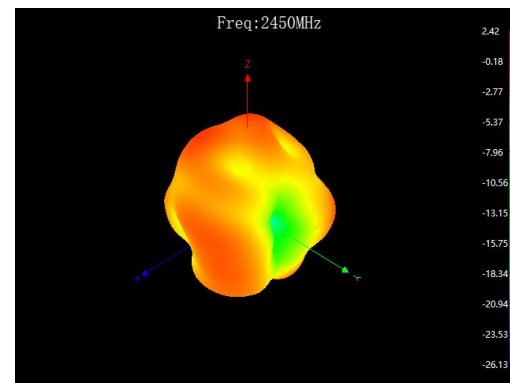
2450MHz



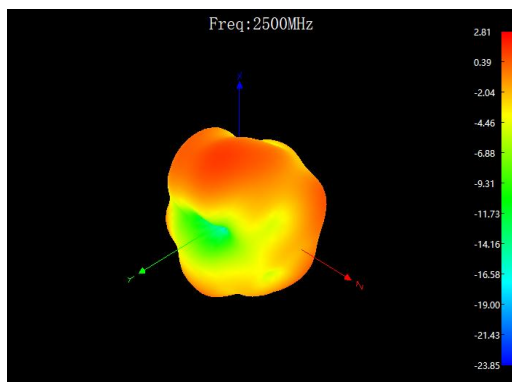
2450MHz



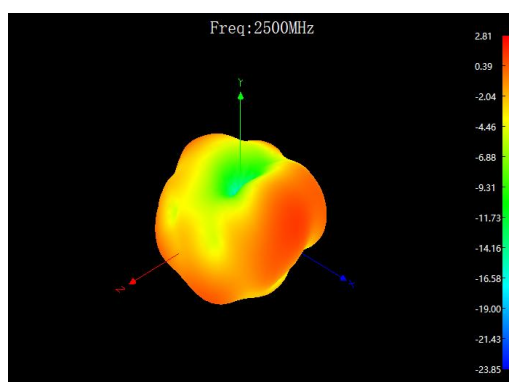
2450MHz



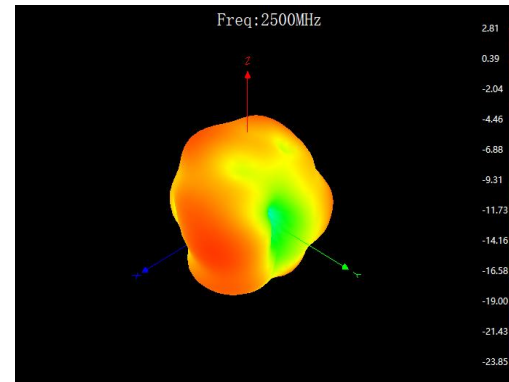
2500MHz



2500MHz

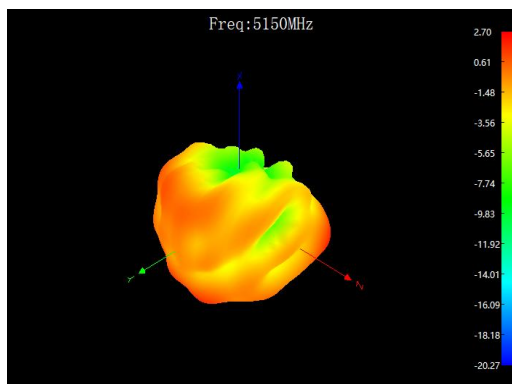


2500MHz

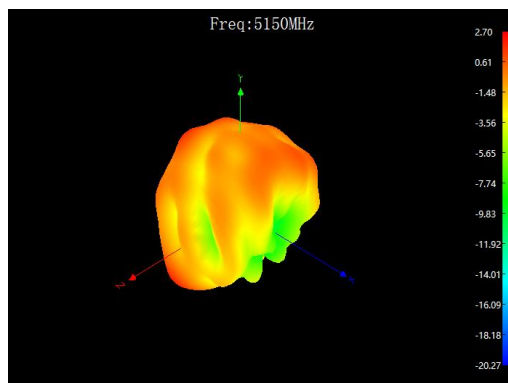


WIFI-1 天线无源 2D\3D 图

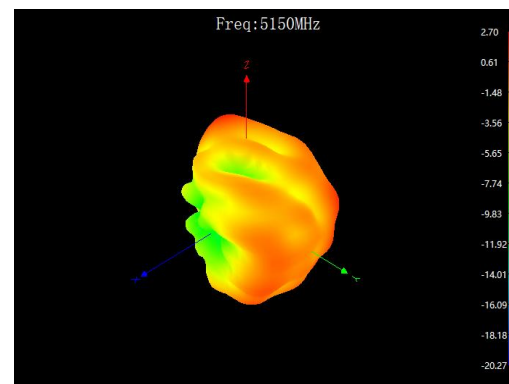
5150MHz



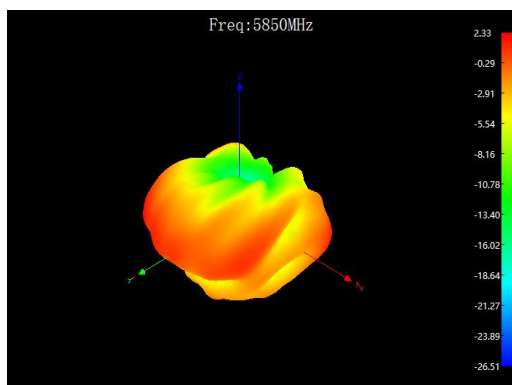
5150MHz



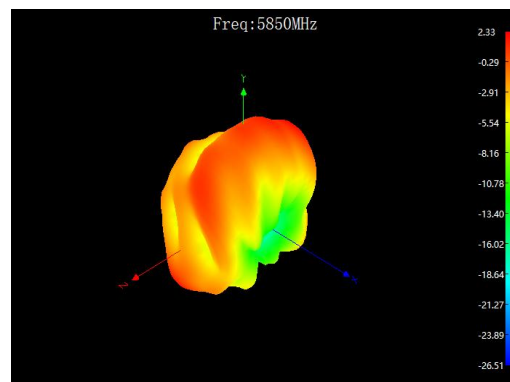
5150MHz



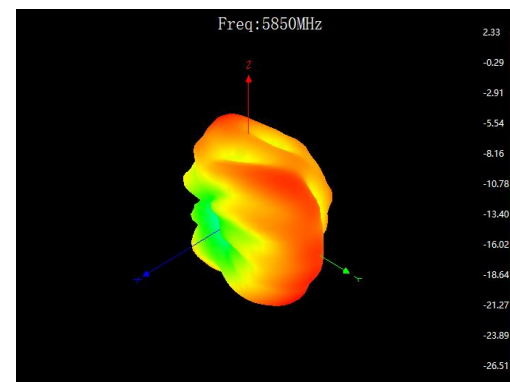
5850MHz



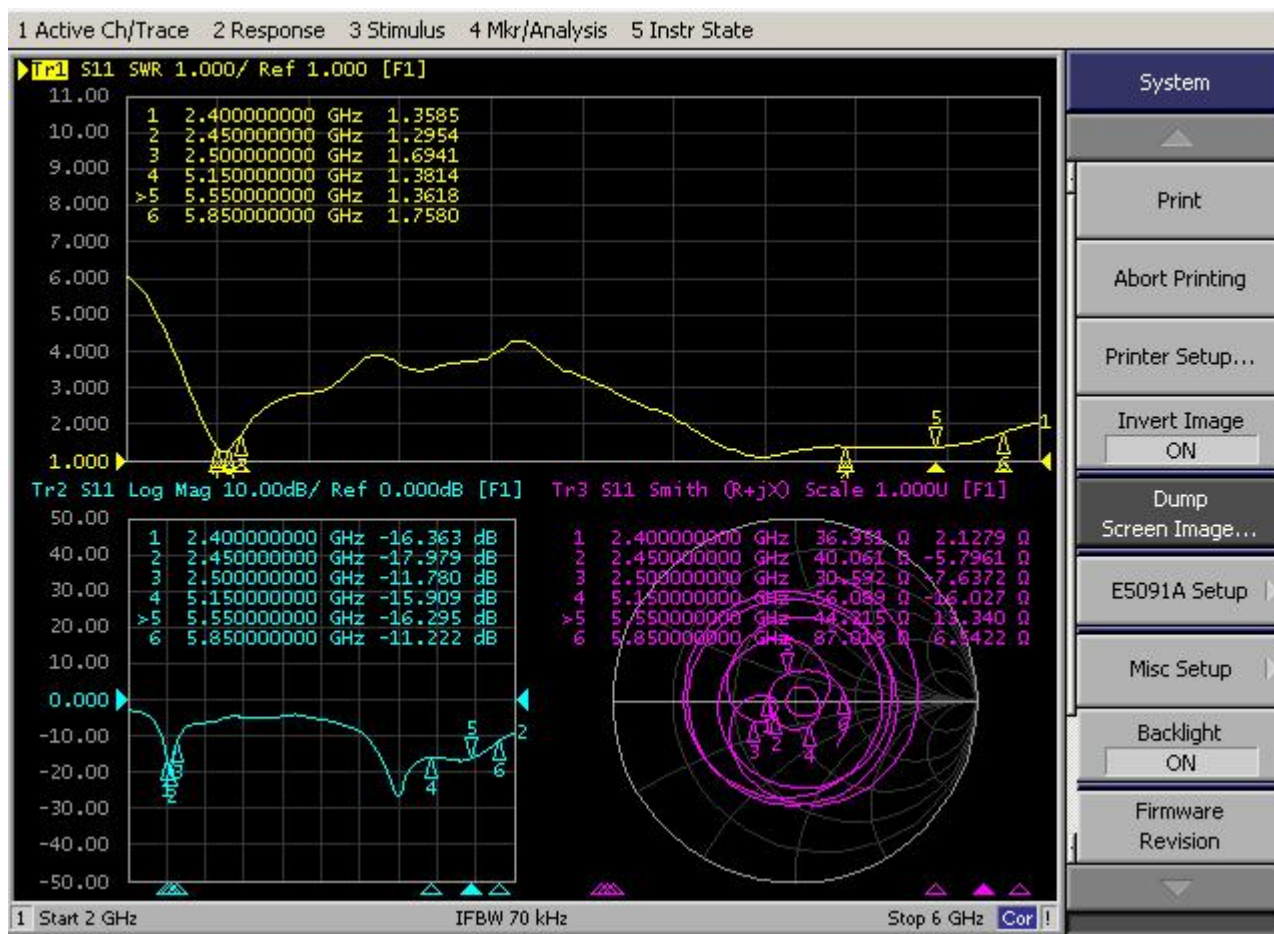
5850MHz



5850MHz



WIFI-2 天线 S11 测试性能图

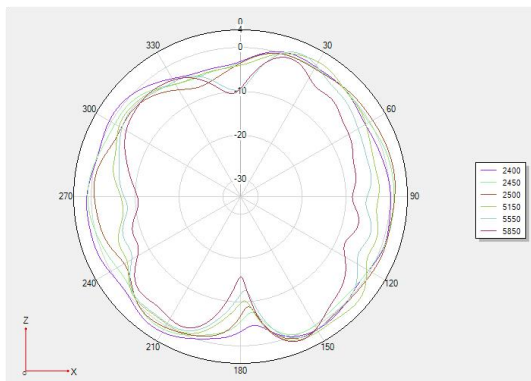


WIFI-2 天线无源测试数据

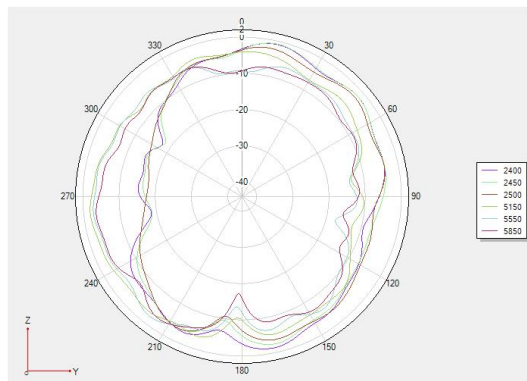
Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	61.78	2.3
2410	57.76	1.54
2420	61.02	2.23
2430	58.11	2.43
2440	60.18	2.14
2450	56.81	2.60
2460	56.22	2.11
2470	55.24	2.16
2480	54.99	2.32
2490	54.21	2.46
2500	55.81	2.31
5150	52.43	2.10
5250	51.98	2.25
5350	50.64	2.02
5450	50.21	2.63
5550	53.86	2.11
5650	52.99	2.27
5750	51.77	2.50
5850	50.92	2.43

WIFI-2 天线无源 2D\3D 图

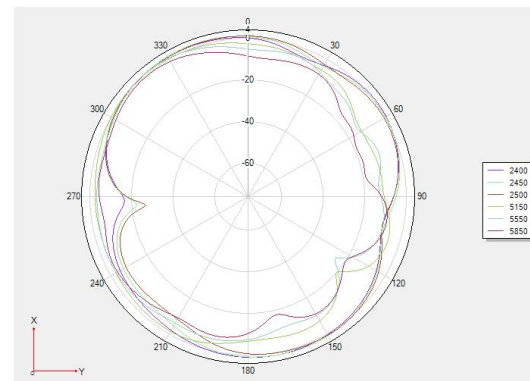
Phi 0 2D图



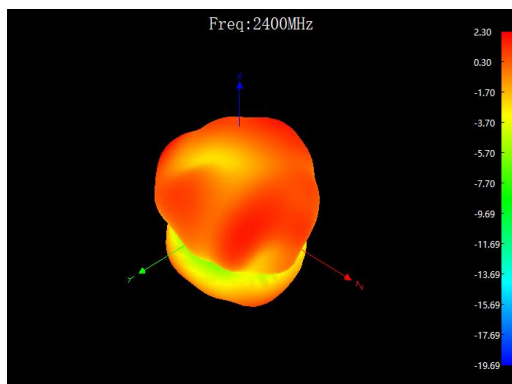
Phi 90 2D图



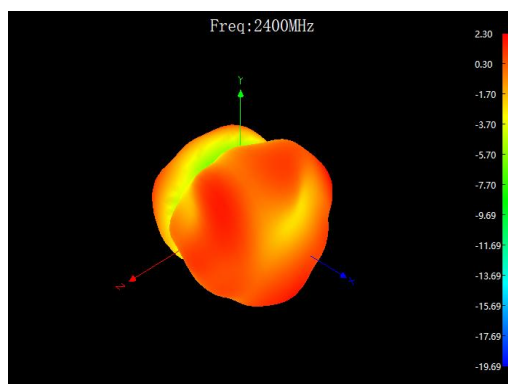
Theta 90 2D图



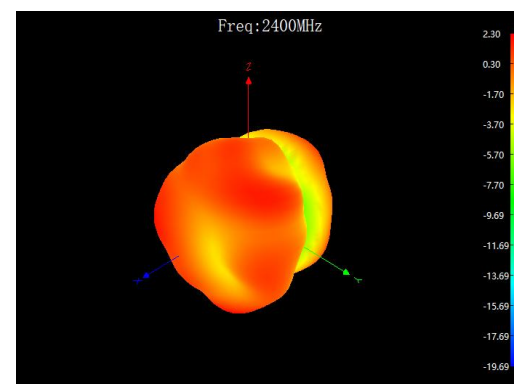
2400MHz



2400MHz

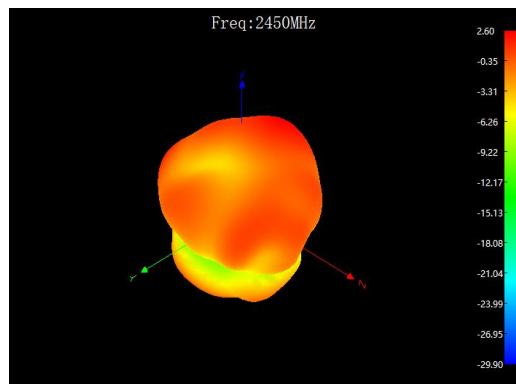


2400MHz

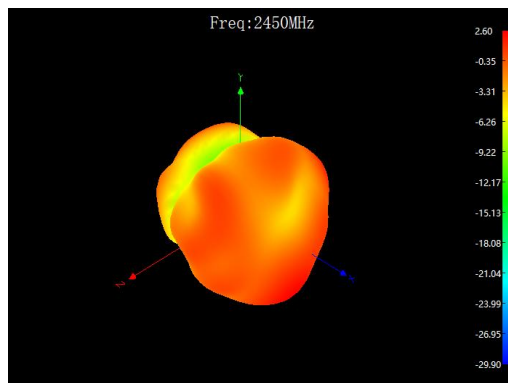


WIFI-2 天线无源 2D\3D 图

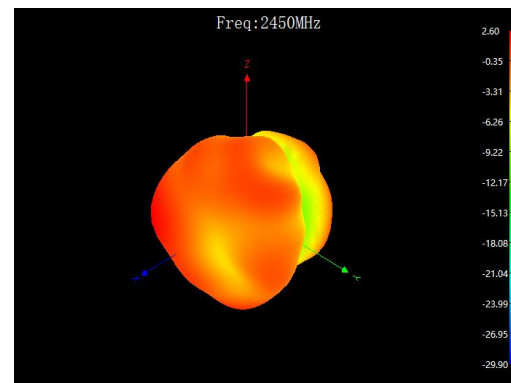
2450MHz



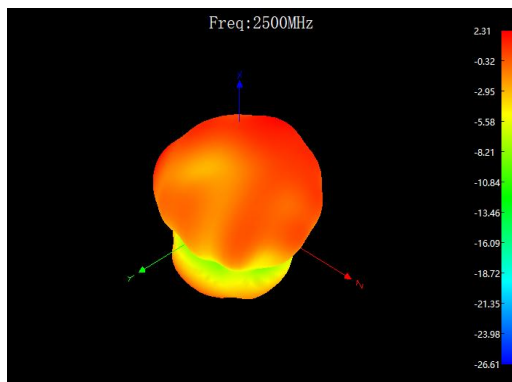
2450MHz



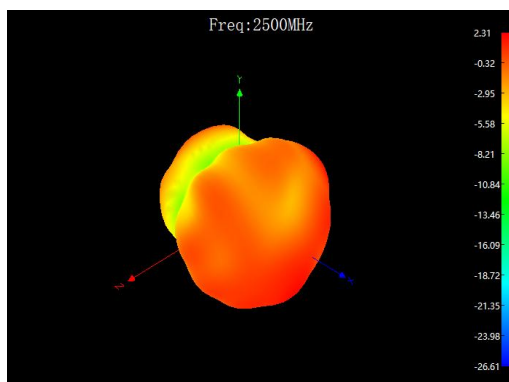
2450MHz



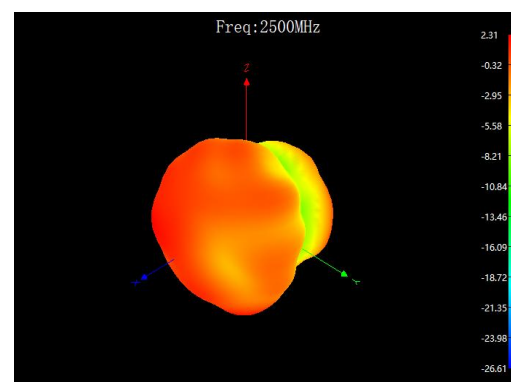
2500MHz



2500MHz

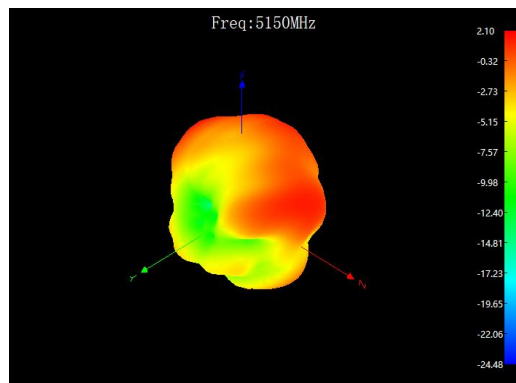


2500MHz

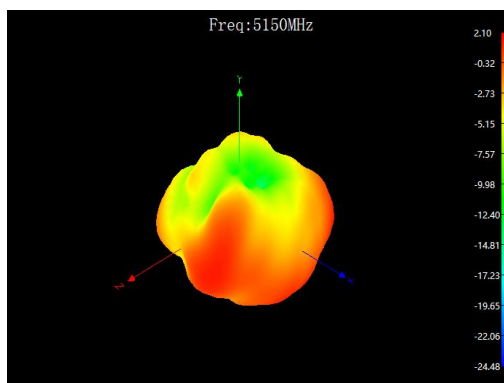


WIFI-2 天线无源 2D\3D 图

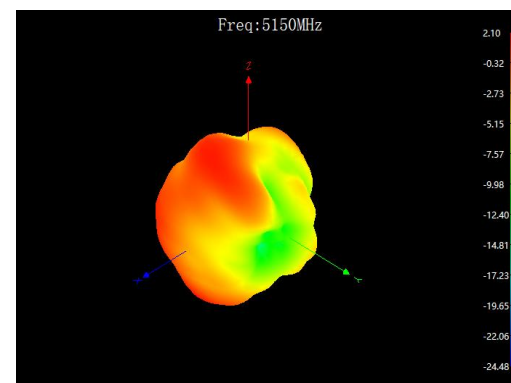
5150MHz



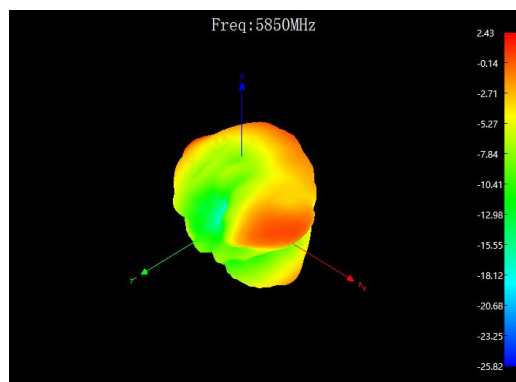
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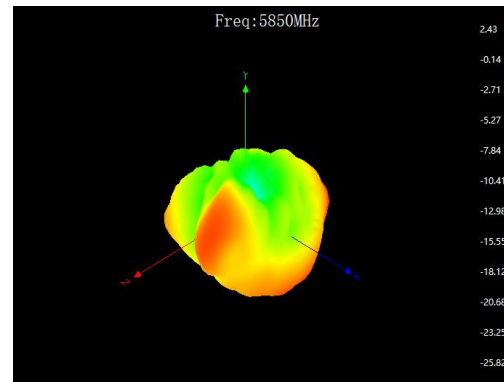
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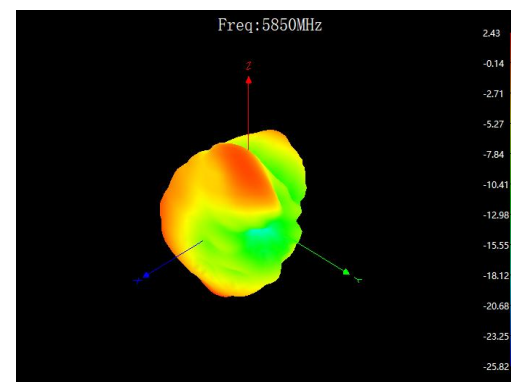
5850MHz



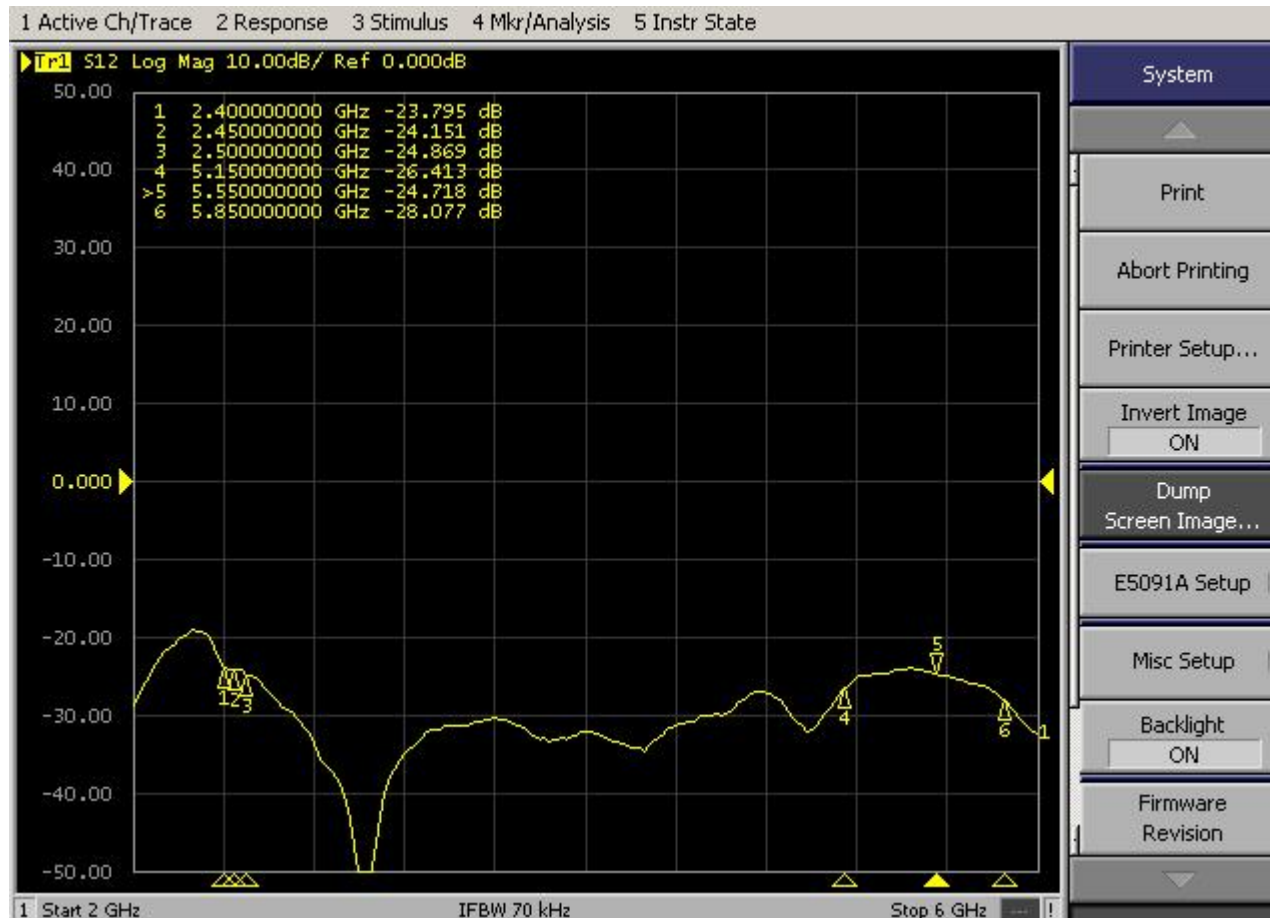
5850MHz



5850MHz



WIFI-1/2 天线隔离度性能测试图



OTA测试数据

Item	Measurement	Azimuths	Elevations	Standard	Band	Channel	Frequency	Max	Min	Total
1	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	19.27	-5.17	13.62
2	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	6	2437	17.55	-5.47	13.78
3	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	11	2462	17.95	0.92	14.25
4	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	-63.07	-82.09	-78.23
5	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	6	2437	-62.03	-81.14	-77.88
6	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	11	2462	-61.68	-80.92	-76.22
7	TRP	Every30	Every30	WIFI (AP)	WIFI_G (54M)	1	2412	16.89	-2.57	12.88
8	TRP	Every30	Every30	WIFI (AP)	WIFI_G (54M)	6	2437	17.03	-3.88	13.01
9	TRP	Every30	Every30	WIFI (AP)	WIFI_G (54M)	11	2462	17	-0.31	13.14
10	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_G (54M)	1	2412	-59.2	-77.76	-73.79
11	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_G (54M)	6	2437	-57.12	-76.59	-72.03
12	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_G (54M)	11	2462	-57.6	-76.1	-72.16
13	TRP	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	1	2412	14.25	-6.33	10.75
14	TRP	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	6	2437	15.59	2.01	11.61
15	TRP	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	11	2462	15.92	4.52	11.71
16	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	1	2412	-59.22	-73.16	-68.6
17	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	6	2437	-58.63	-72.51	-67.57
18	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	11	2462	-58.55	-72.39	-67.94
19	TRP	Every30	Every30	WIFI (AP)	WIFI_A (54M)	36	5180	19.86	3.36	15.64
20	TRP	Every30	Every30	WIFI (AP)	WIFI_A (54M)	149	5745	19.76	4.16	16.03
21	TRP	Every30	Every30	WIFI (AP)	WIFI_A (54M)	165	5825	22.07	3.06	16.78
22	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_A (54M)	36	5180	-62.56	-79.27	-74.86
23	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_A (54M)	149	5745	-61.8	-80.83	-75.8
24	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_A (54M)	165	5825	-59.49	-80.18	-75.62



谢谢！

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杭州研发中心：杭州市滨江区物联网街369号大华江虹国际创新园B栋212

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