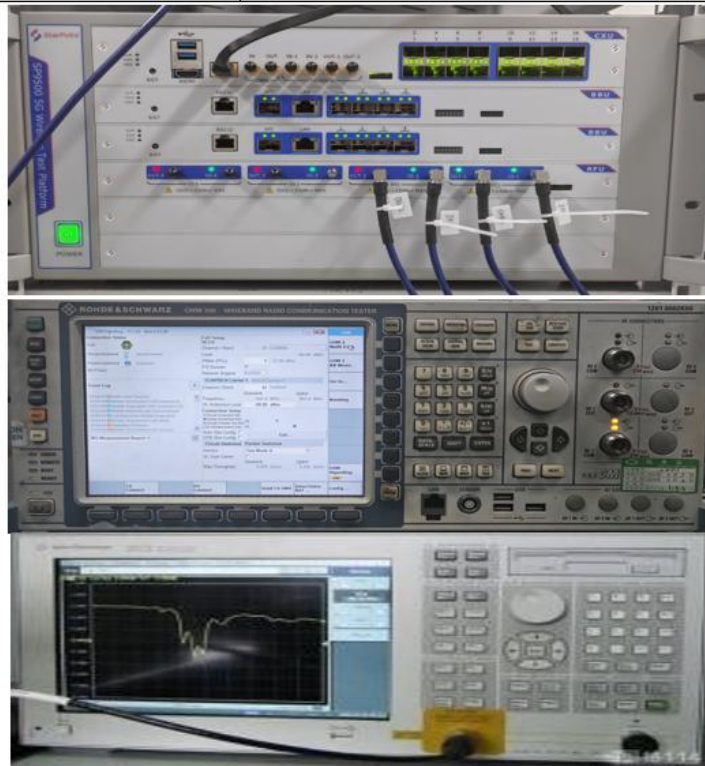
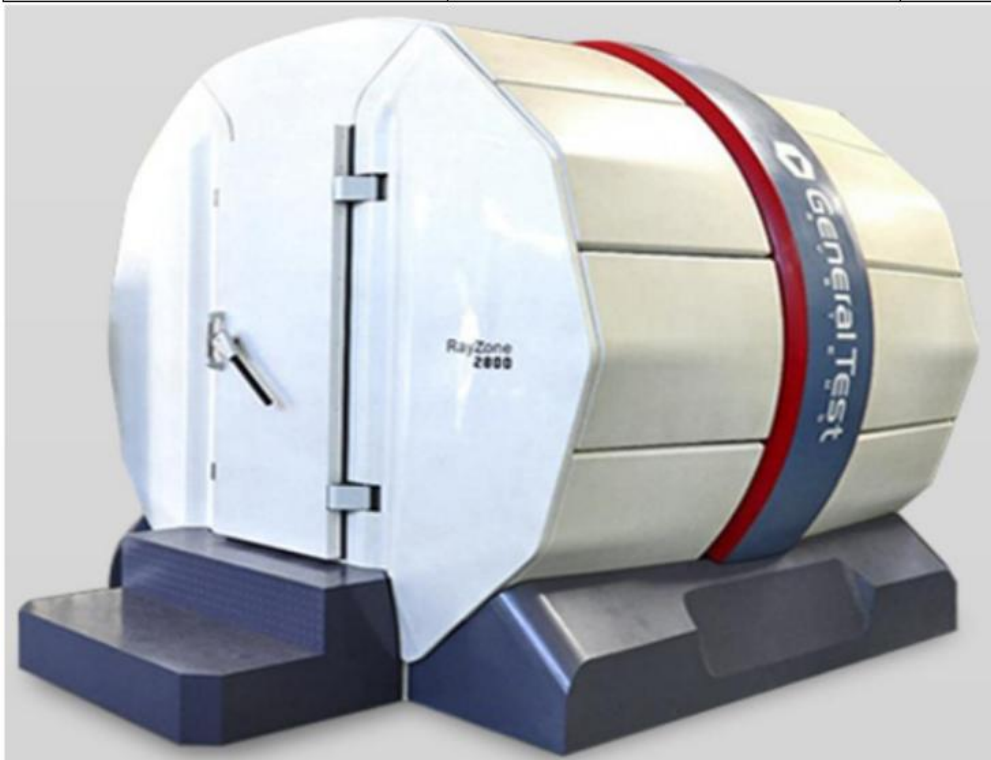




测试设备

无源及有源测试—5G微波暗室

◆ 测试系统	◆ 测试环境	◆ 有源测试	◆ 无源测试
GTS2800	温度：22℃±3℃ 湿度：50%±15%	支持5G/4G/3G/2G 支持BT/WIFI/GPS	600MHZ——6G



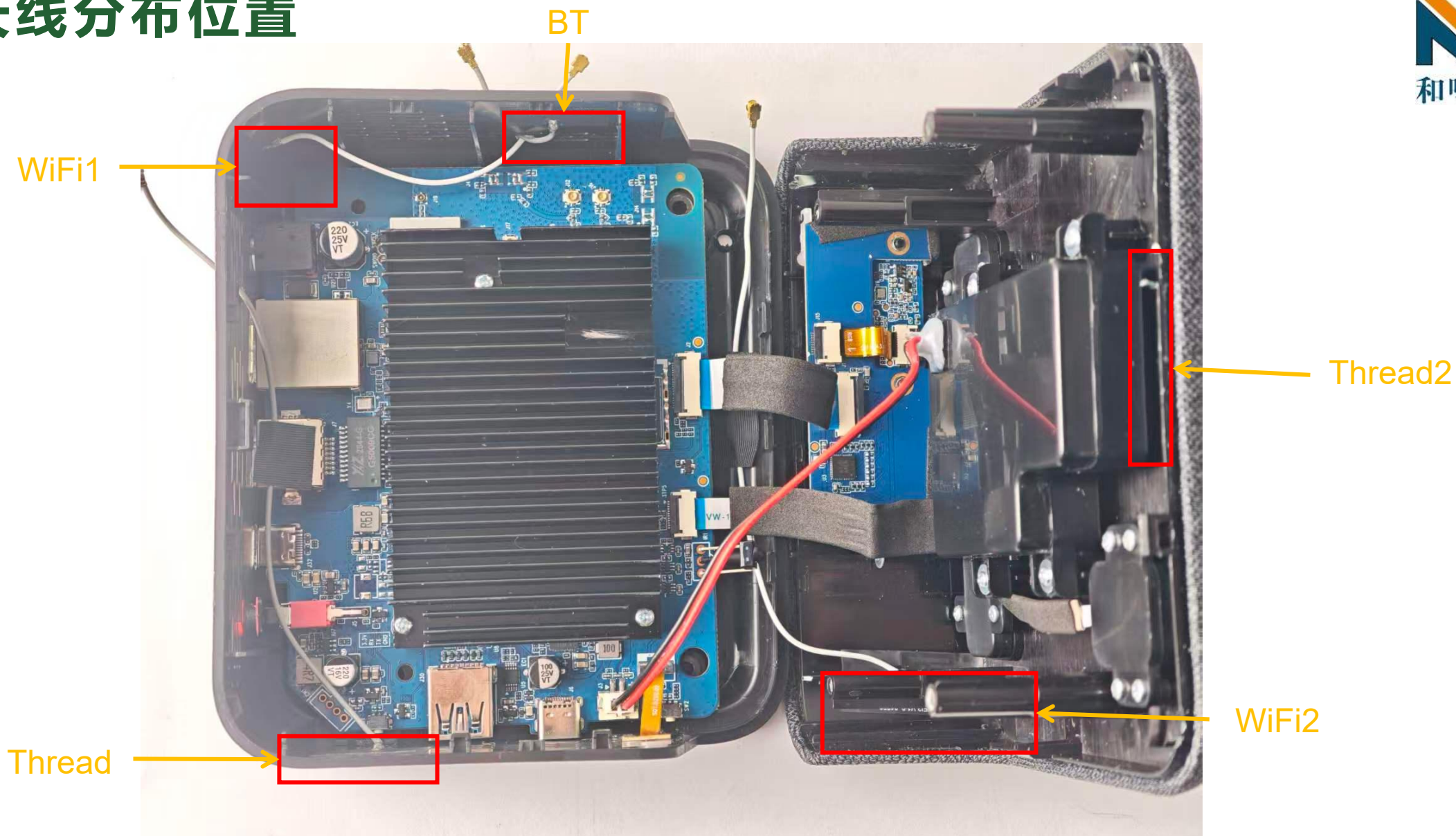
>>> 项目说明



整机类型	机顶盒	
整机图		
天线相关信息	天线种类及材质	内置FPC+Cable线
	调试频段	WIFI:2.4~2.5GHz 5.15~5.85GHz BT:2.4~2.5GHz Thread:2.4~2.5GHz Thread2:2.4~2.5GHz
	天线形式	PIFA

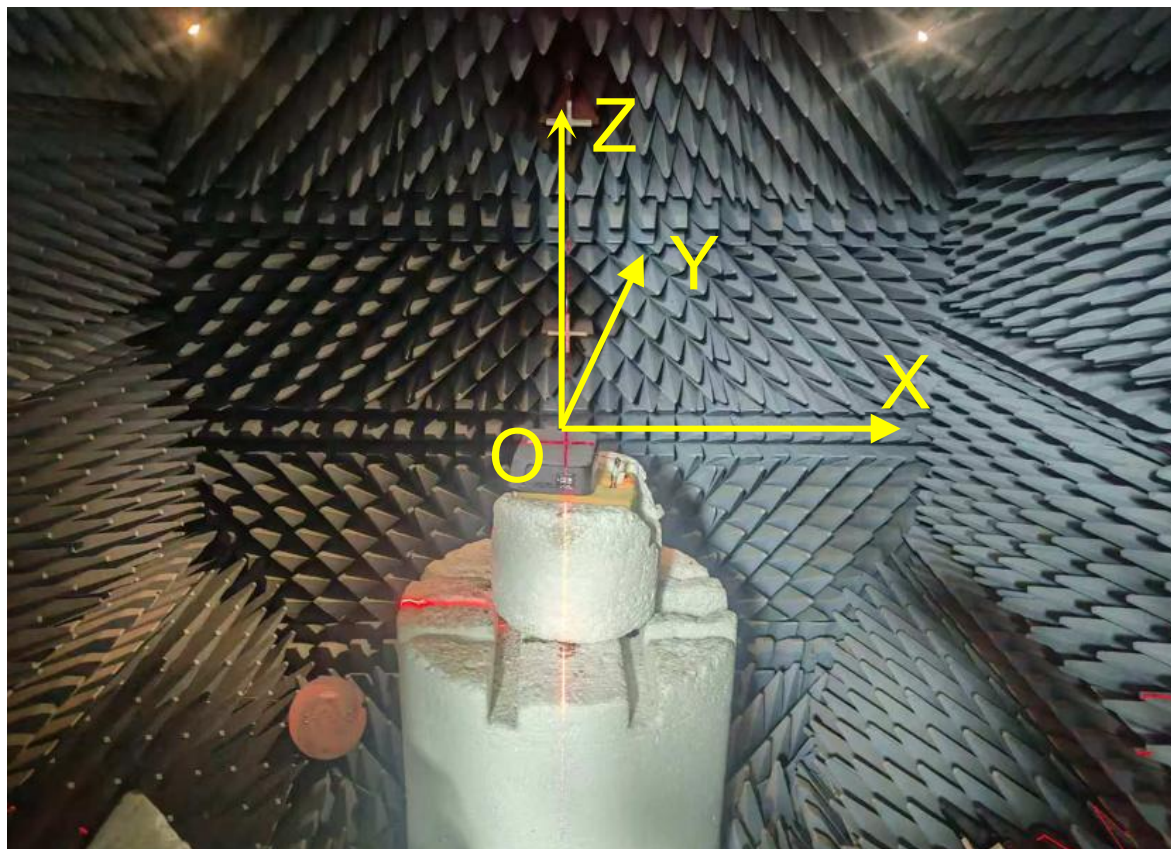
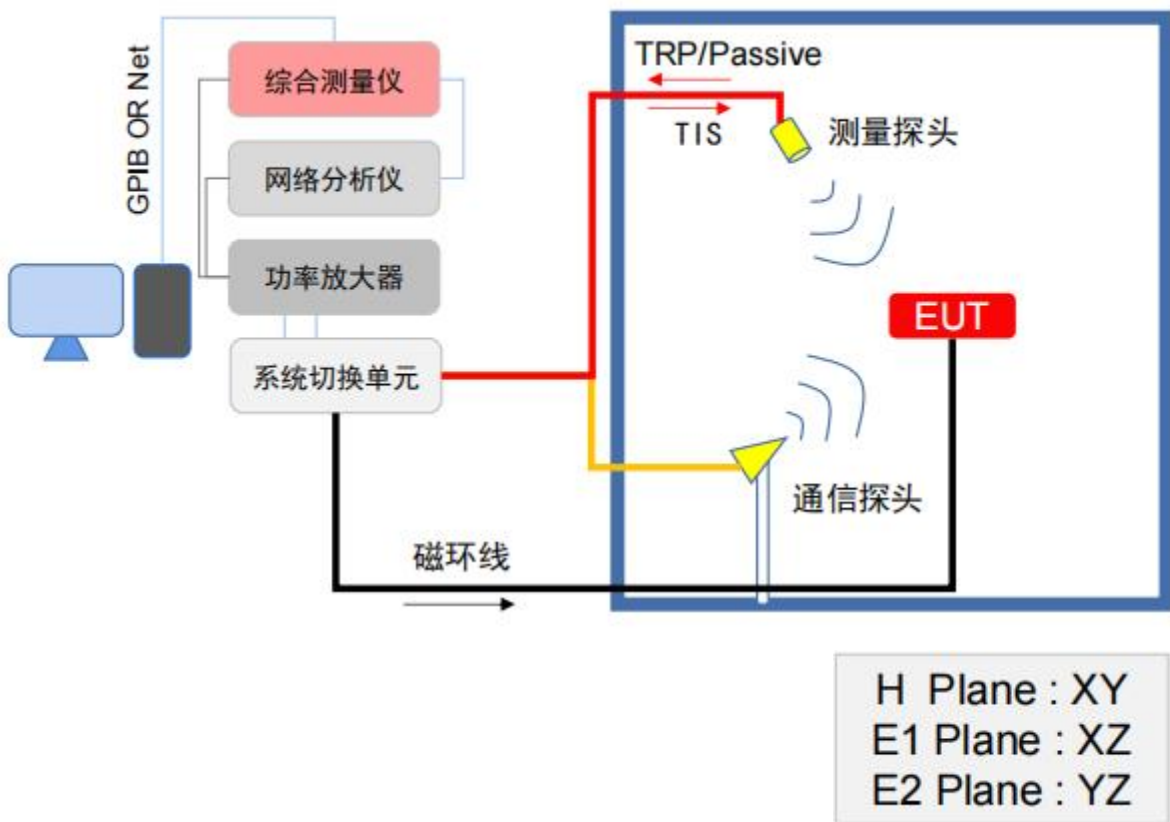


天线分布位置





测试放置状态

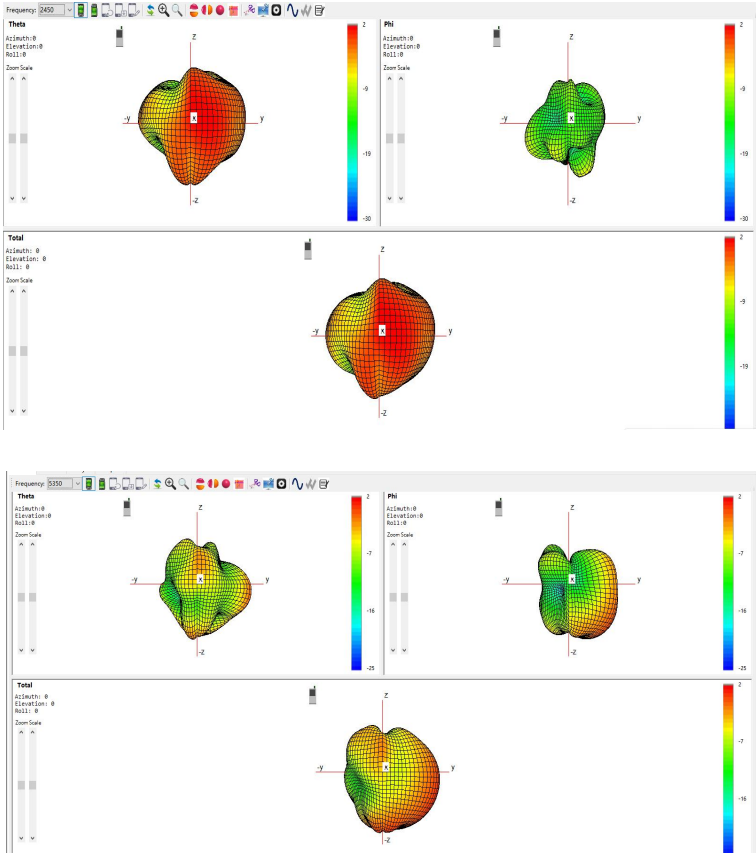


>>> 无源增益、效率、方向图-WIFI1 (2.4G/5G)



Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-2.34	2.43	58.4
2410	-2.5	2.3	56.27
2420	-2.63	2.19	54.58
2430	-2.75	2.01	53.11
2440	-2.91	1.85	51.15
2450	-2.88	1.86	51.49
2460	-2.87	1.96	51.68
2470	-2.85	2.02	51.86
2480	-2.8	2.19	52.43
2490	-2.89	2.06	51.35
2500	-2.82	2.19	52.22

Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
5150	-2.66	2.09	54.19
5200	-2.92	1.75	51.01
5250	-2.96	1.68	50.56
5300	-3.31	1.35	46.64
5350	-3.13	1.52	48.64
5400	-3.25	1.41	47.33
5450	-3.34	1.29	46.33
5500	-3.37	1.23	46.01
5550	-3.19	2.05	47.98
5600	-3.03	2.35	49.75
5650	-3.38	1.89	45.93
5700	-2.8	2.39	52.46
5750	-3.18	2.11	48.04
5800	-3.39	1.91	45.8
5850	-2.62	2.87	54.75

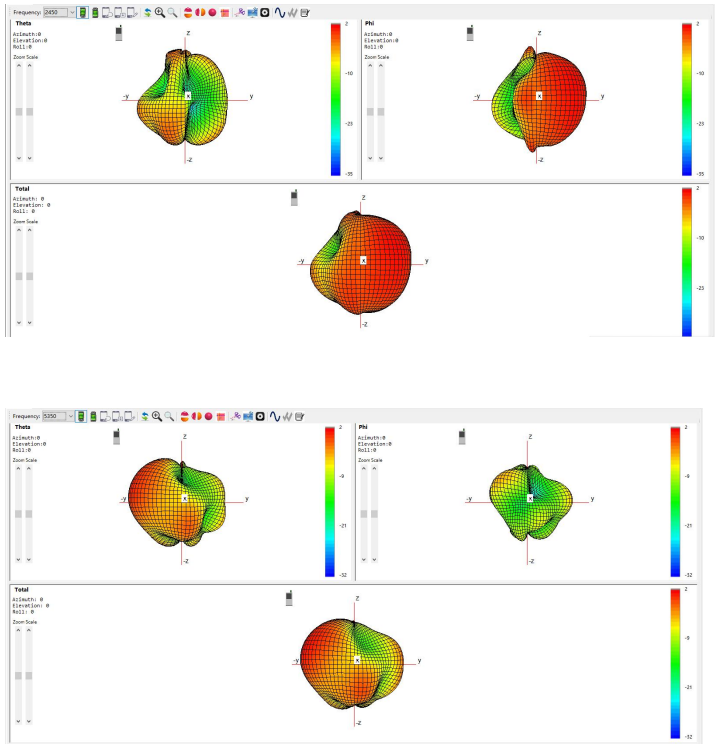


>>> 无源增益、效率、方向图-WIFI2 (2.4G/5G)



Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-3.39	2.02	45.84
2410	-3.32	2	46.6
2420	-3.25	1.96	47.35
2430	-3.41	1.65	45.63
2440	-3.41	1.54	45.57
2450	-3.44	1.38	45.31
2460	-3.42	1.65	45.51
2470	-3.21	2.12	47.77
2480	-3.01	2.46	49.98
2490	-3.16	2.72	48.31
2500	-3.34	2.55	46.3

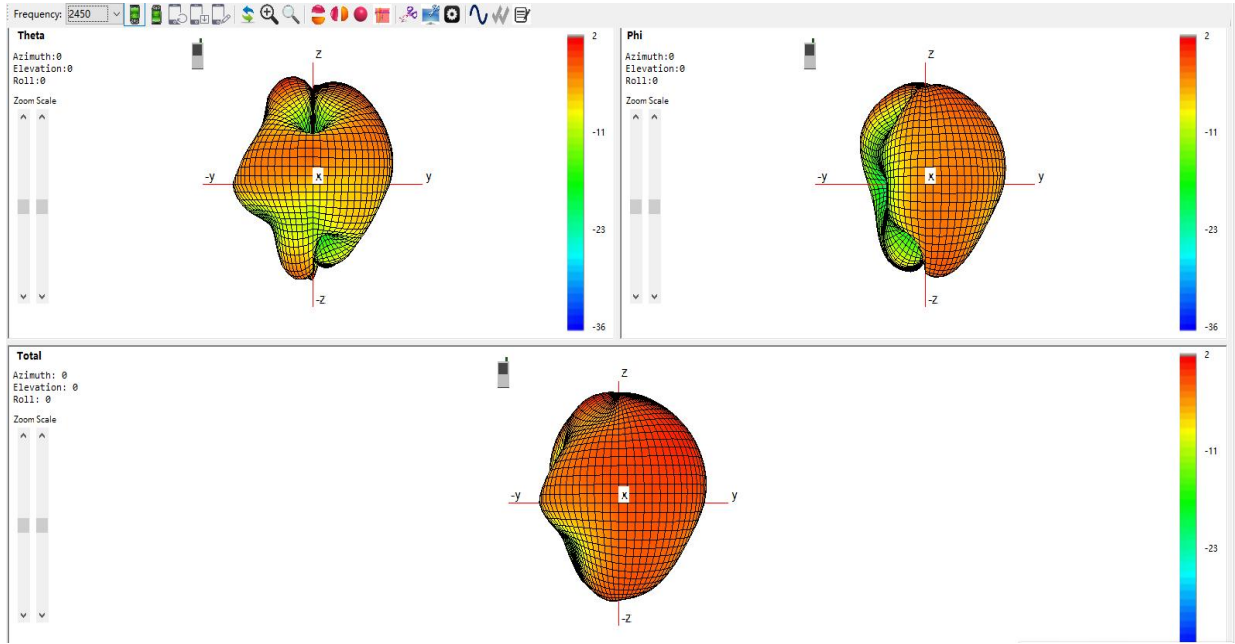
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
5150	-3.43	1.38	45.44
5200	-3.42	1.65	45.51
5250	-3.38	1.2	45.9
5300	-3.17	1.97	48.14
5350	-3.43	1.68	45.44
5400	-3.22	2.13	47.67
5450	-3.11	2.26	48.84
5500	-3.26	2.32	47.24
5550	-3.37	2.42	46.05
5600	-3.11	2.47	48.92
5650	-3.35	2.71	46.26
5700	-2.89	2.55	51.45
5750	-3.09	2.6	49.1
5800	-3.11	2.47	48.92
5850	-2.99	2.41	50.27



>>> 无源增益、效率、方向图-BT



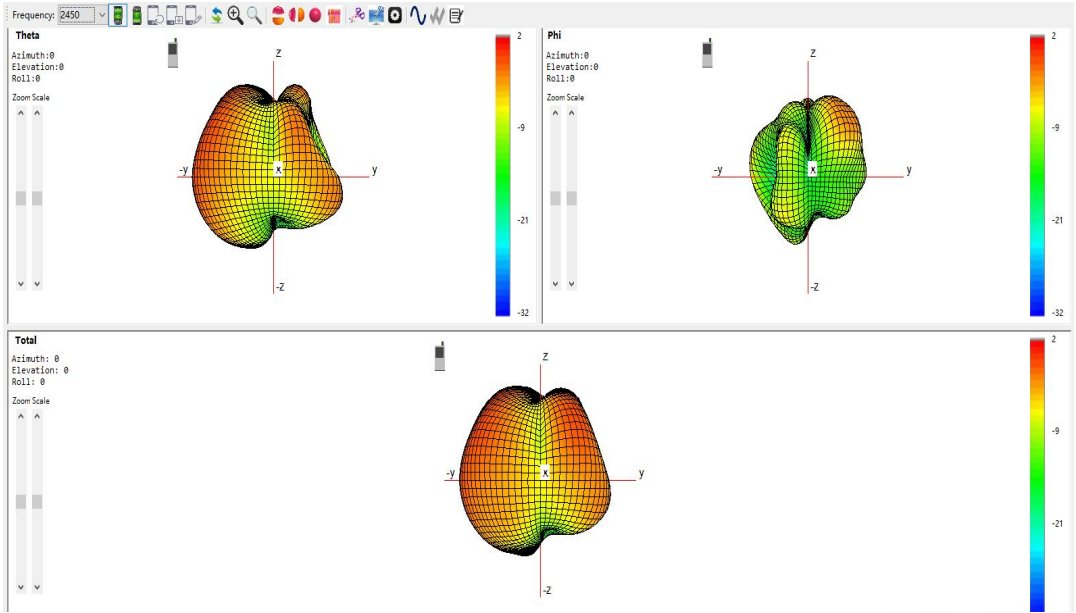
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-3.2	1.13	47.91
2410	-3.18	1.28	48.1
2420	-3.05	1.3	49.59
2430	-2.87	1.07	51.68
2440	-2.86	1.09	51.73
2450	-2.64	1.79	54.45
2460	-2.28	2.04	59.11
2470	-2.51	2.22	56.14
2480	-2.44	2.19	57.04
2490	-2.49	2.28	56.3
2500	-2.4	1.79	57.56



>>> 无源增益、效率、方向图-Thread1 2.4G



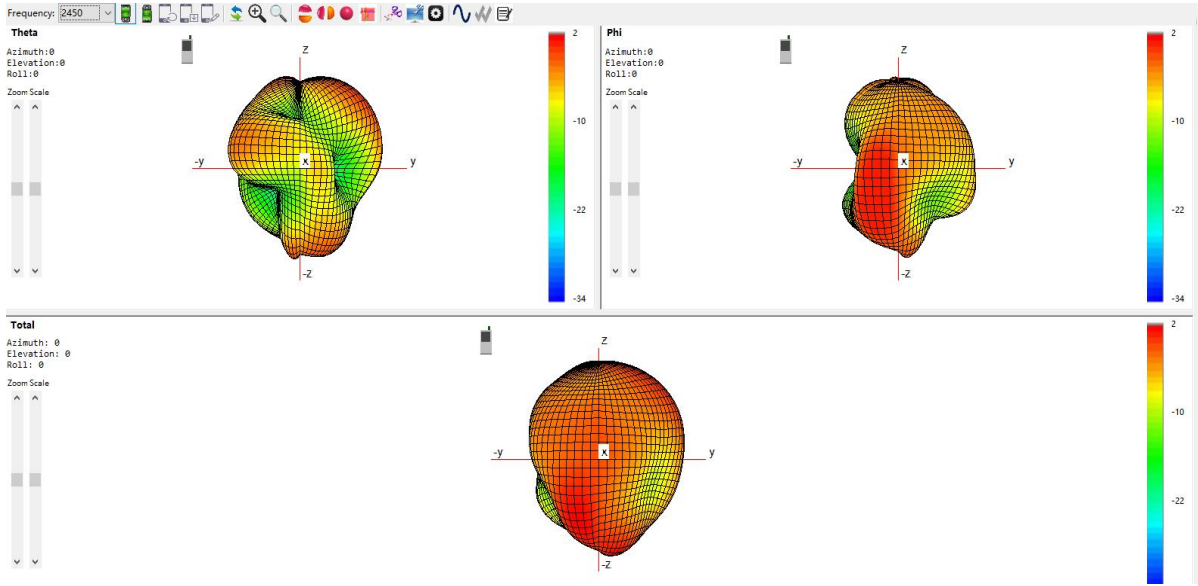
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-3.43	1.17	45.36
2410	-3.37	1.27	45.98
2420	-3.22	1.58	47.69
2430	-3.17	1.63	48.24
2440	-3.21	1.66	47.8
2450	-3.14	1.9	48.55
2460	-3.09	2.1	49.08
2470	-3.14	2.1	48.49
2480	-3.09	2.12	49.07
2490	-3.19	2.08	47.95
2500	-3.21	1.88	47.72



>>> 无源增益、效率、方向图-Thread2 2.4G



Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-3.45	0.97	45.17
2410	-3.36	1.05	46.14
2420	-3.17	1.31	48.16
2430	-3.1	1.46	48.99
2440	-3.12	1.57	48.74
2450	-3.07	1.76	49.26
2460	-3.07	1.99	49.28
2470	-3.24	1.97	47.44
2480	-3.27	2.13	47.06
2490	-3.41	2.2	45.64
2500	-3.46	2.38	45.09



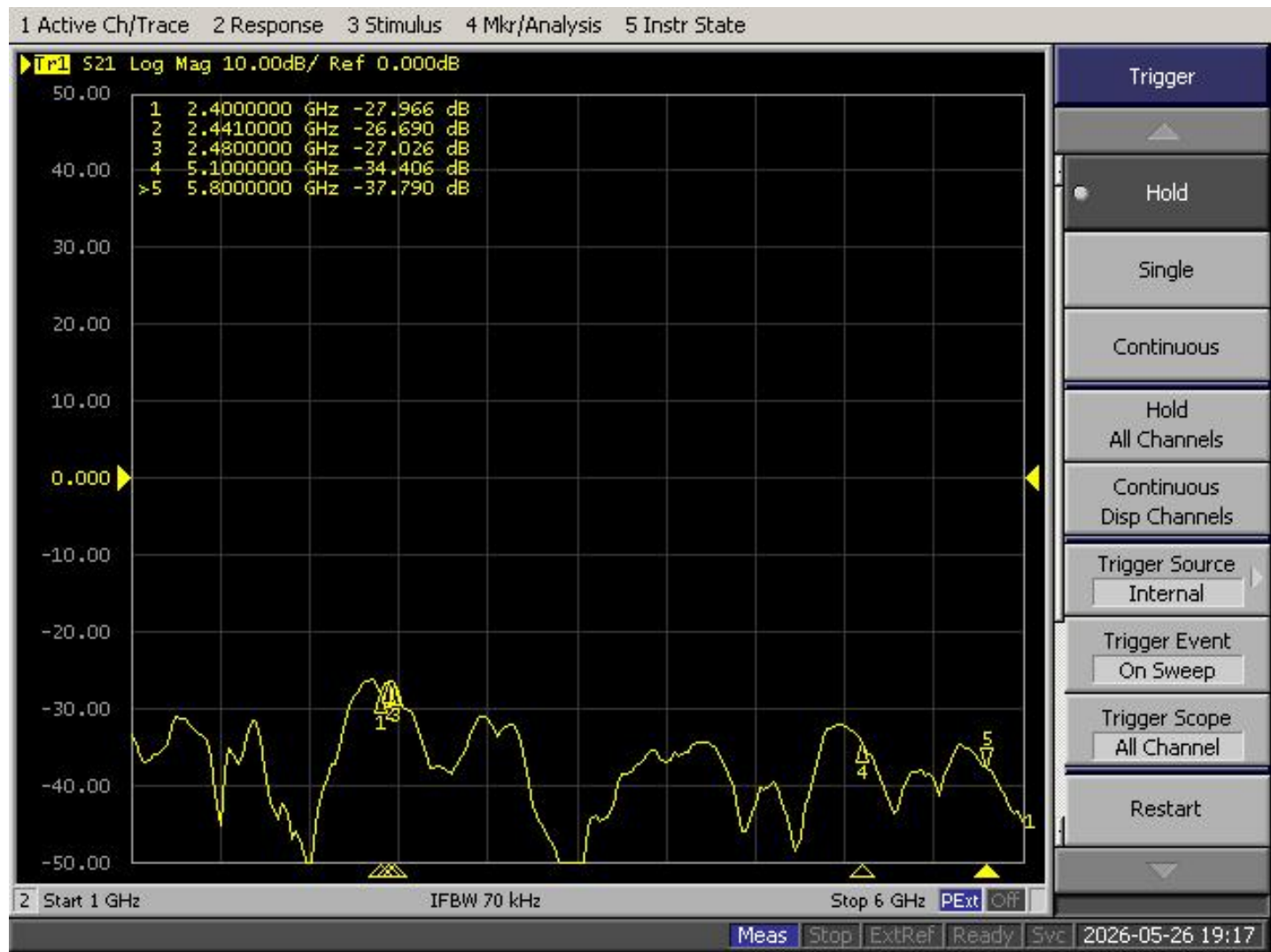
>>> 有源OTA测试数据-WIFI



Band&Protocol	channel	TRP	TIS
WIFI(2.4G) 802.11b AP,11M	1	19.34	-82.54
	6	20.56	-81.84
	11	19.36	-84.5
WIFI(5G) 802.11a AP,54M	36	19.16	-72.11
	64	18.81	-70.47
	149	17.14	-70.42
	165	17.32	-71.07

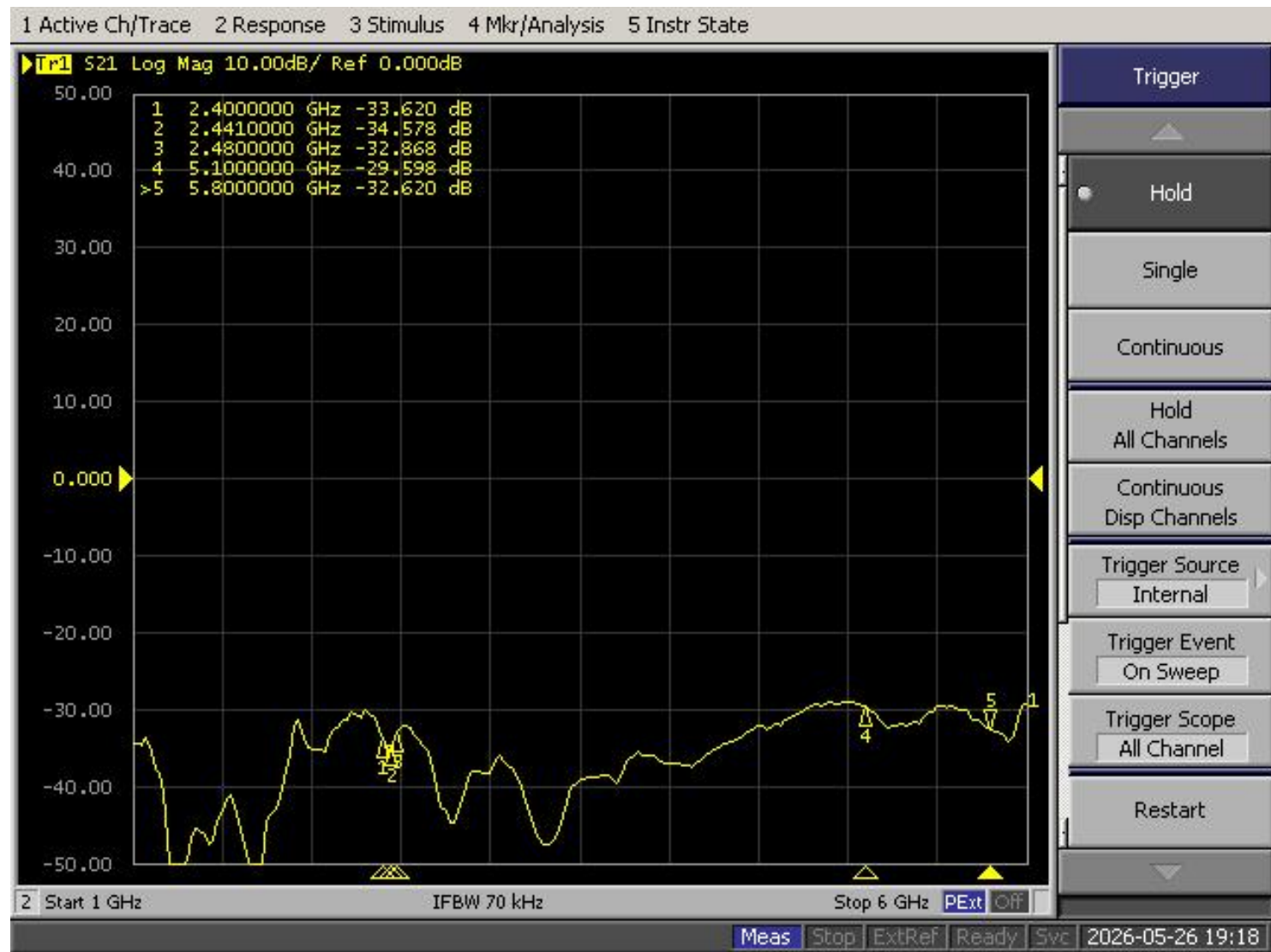


隔离度-WIFI1天线与WIFI2天线之间



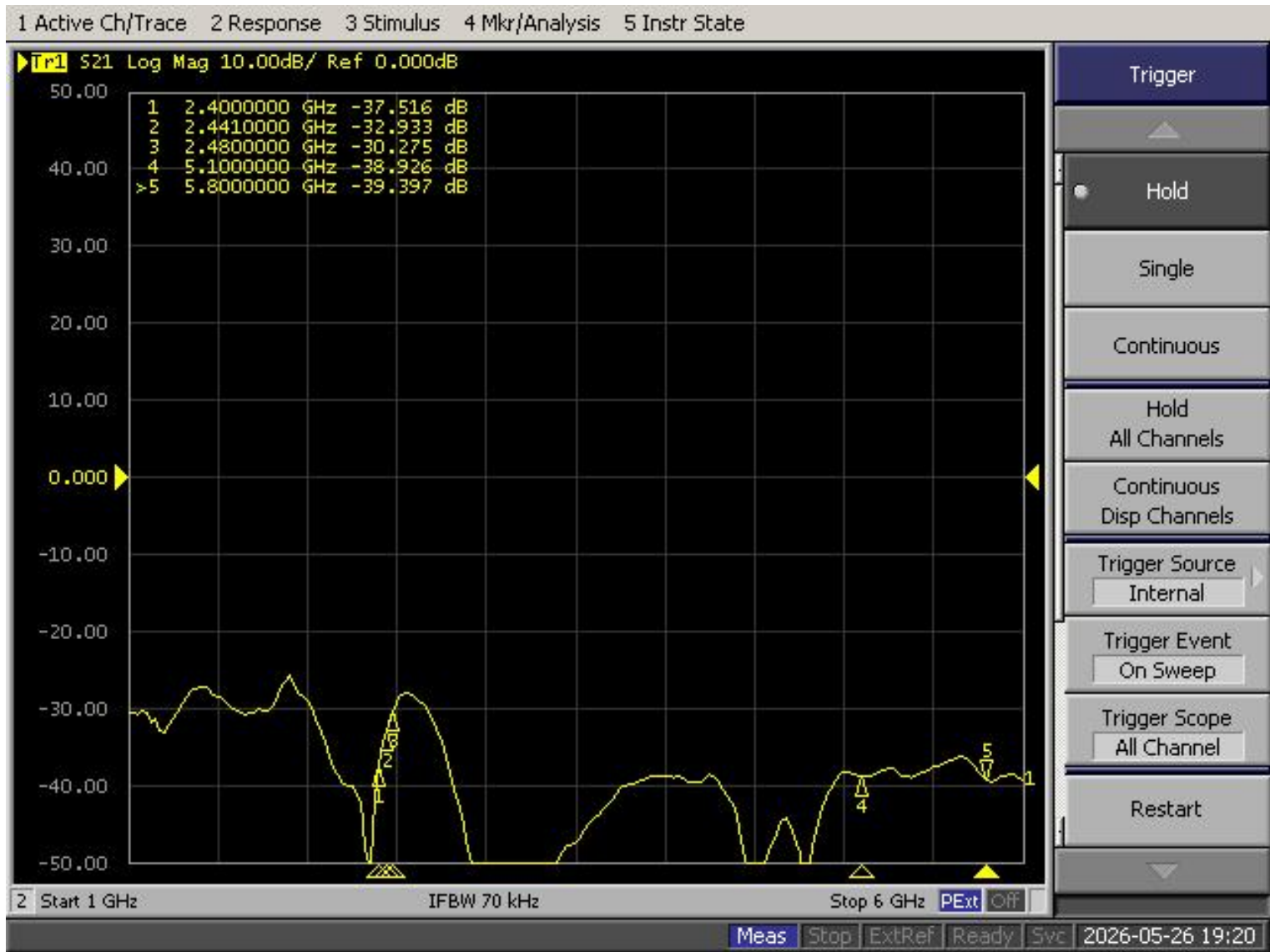


隔离度-WIFI1天线与Thread1天线之间



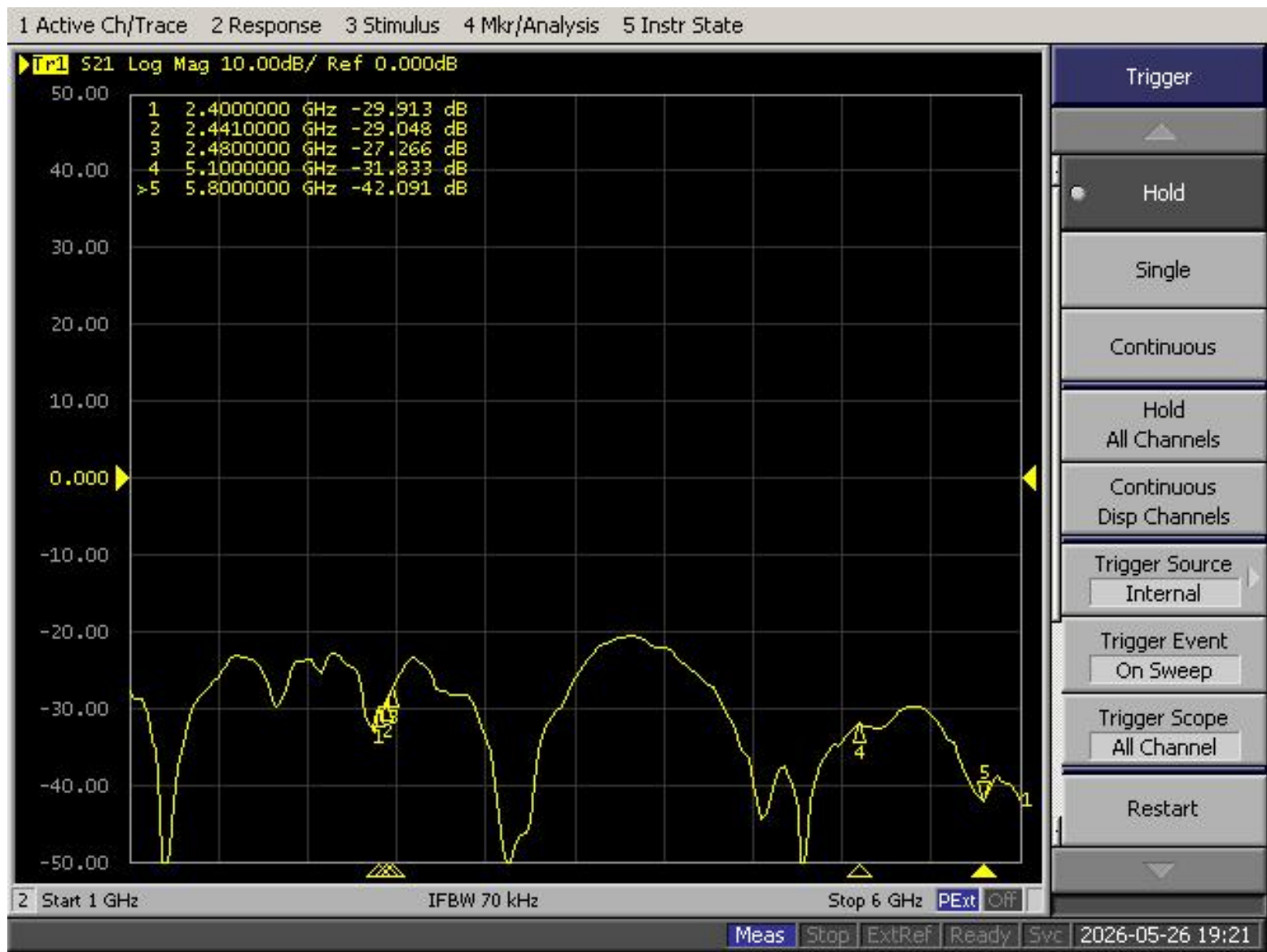


隔离度-WIFI1天线与BT天线之间



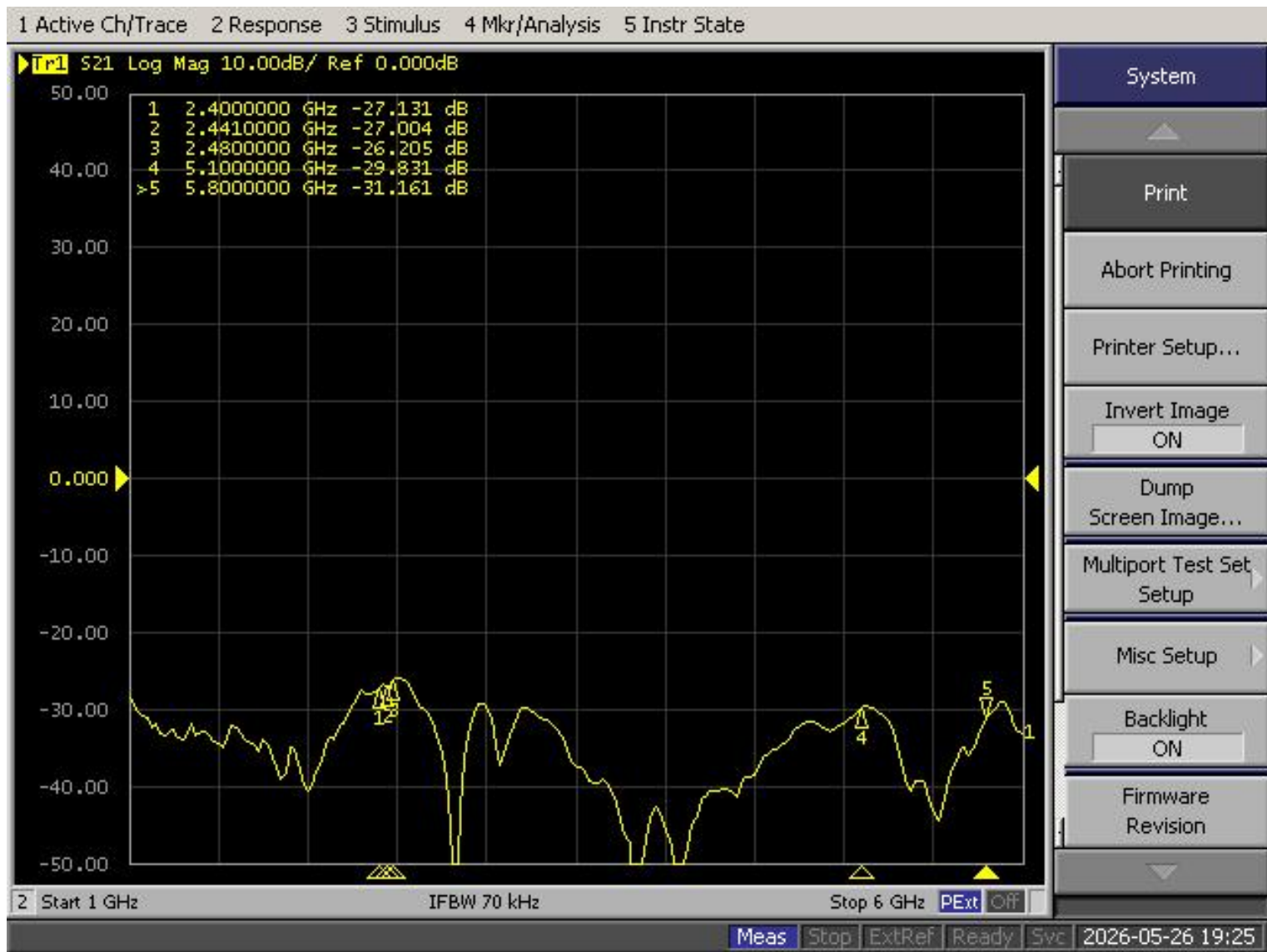


隔离度-WIFI1天线与Thread2天线之间



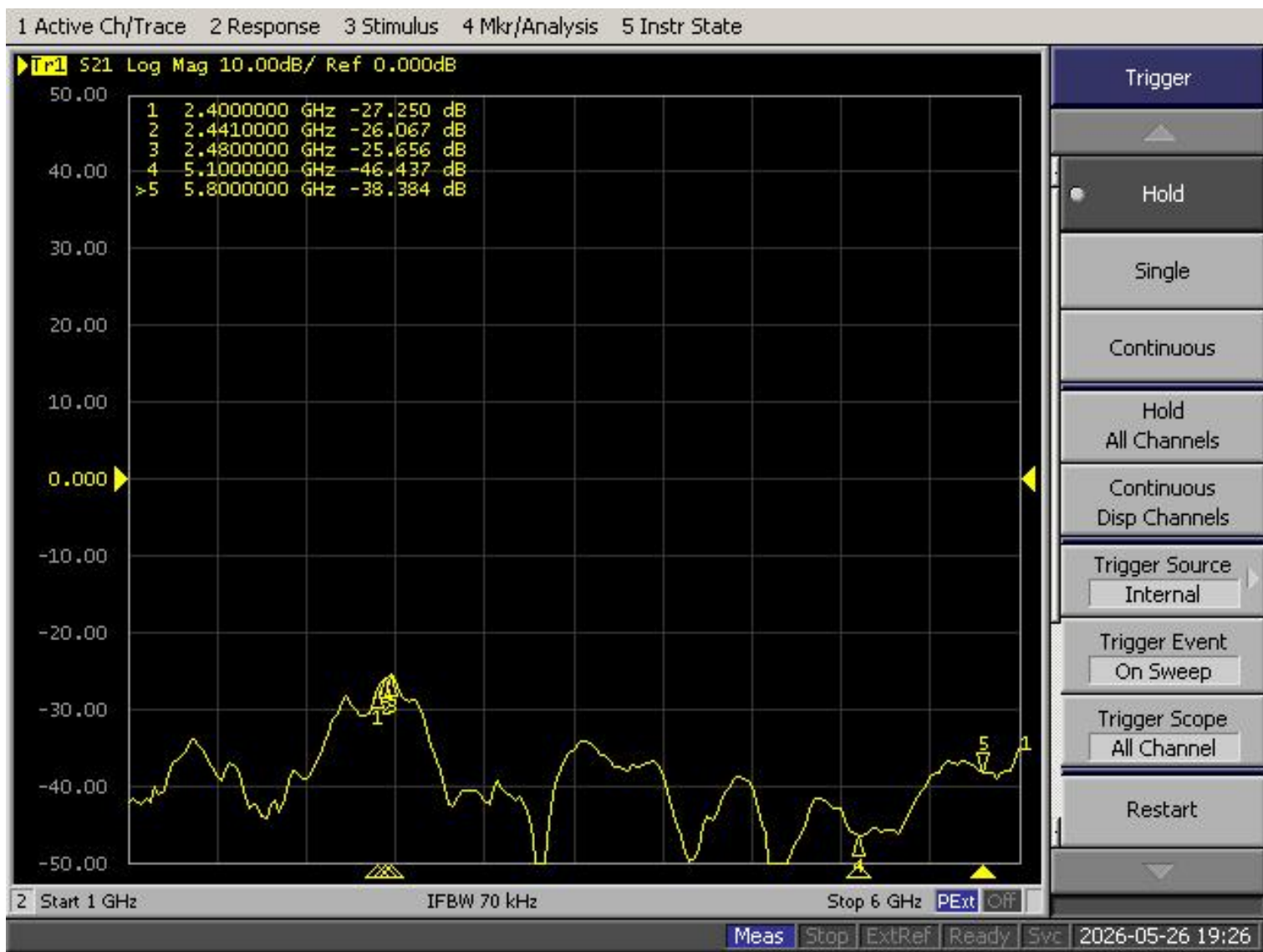


隔离度-WIFI2天线与BT天线之间



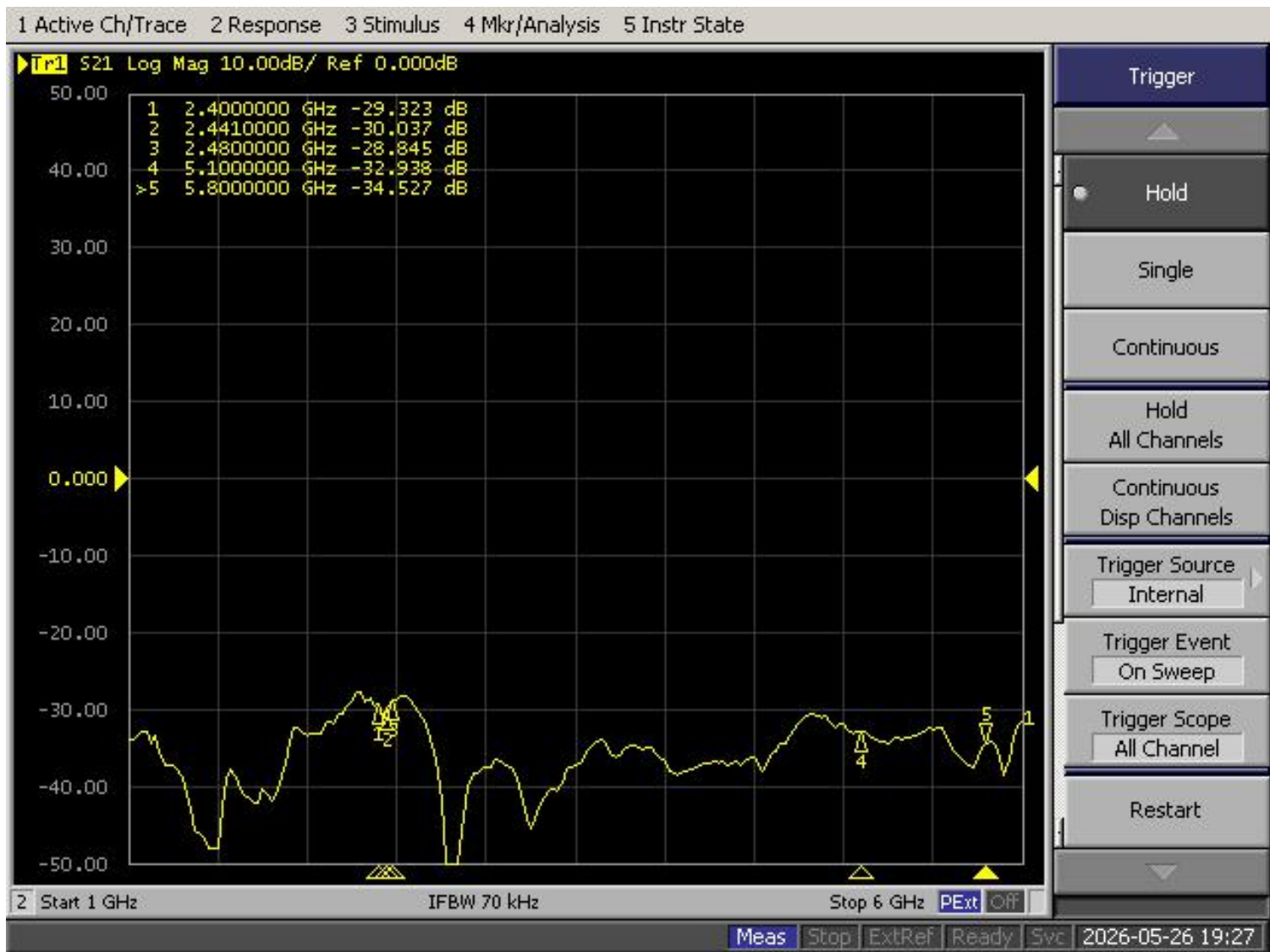


隔离度-WIFI2天线与Thread2天线之间



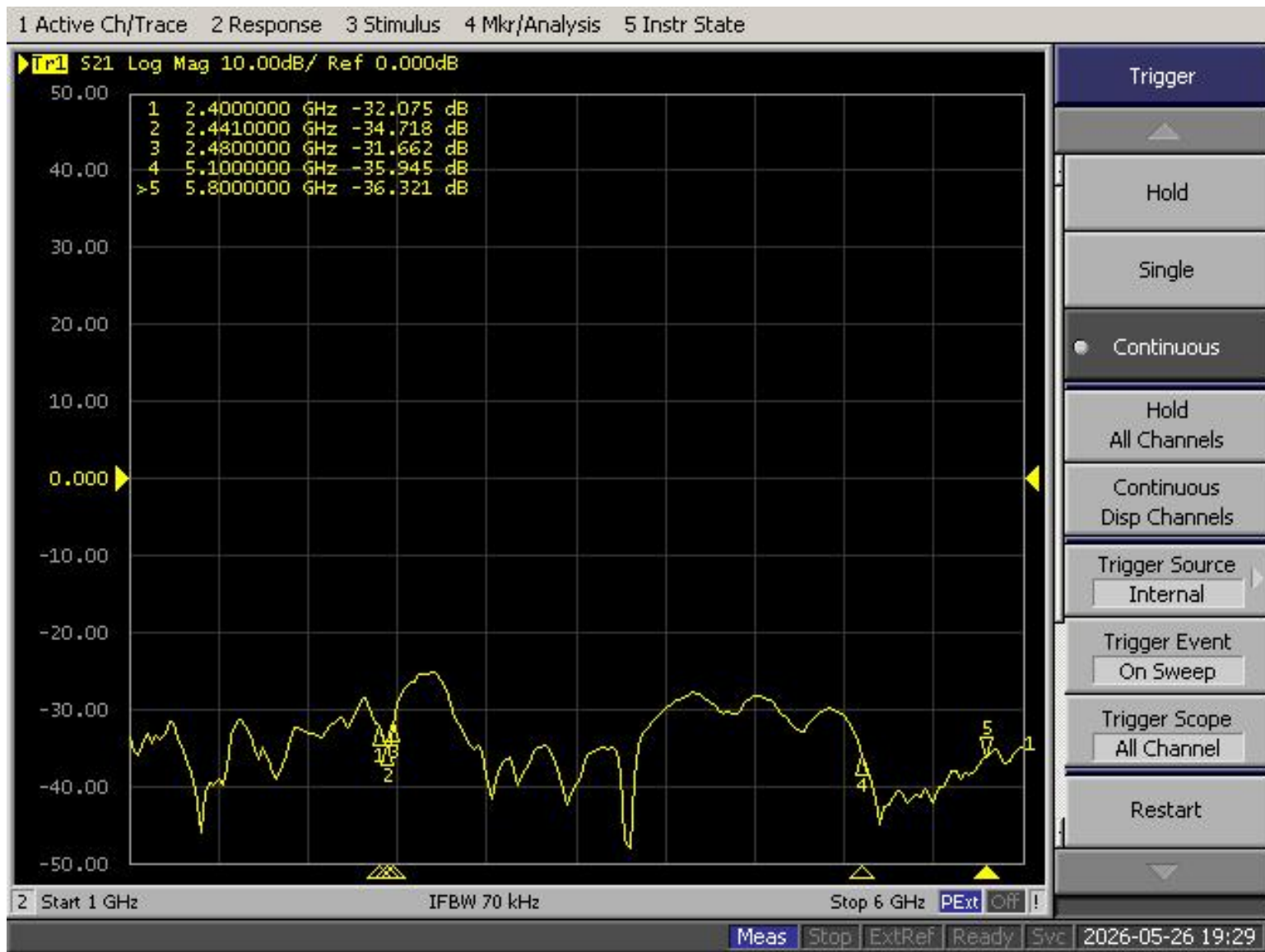


隔离度-Thread1天线与BT天线之间





隔离度-Thread1天线与Thread2天线之间





隔离度-BT天线与Thread2天线之间

