

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER(客户名称)	极米	
	CS P/N(客户机种)	雪碧	TX-B
	PART NAME(品名)	WIFI-1 天线	L=50mm
	FREQUENCY(频率)	2.4~2.5GHz+5.15~5.90GHz	
	ZTX NO.(物料编号)	2.00005697	
	DATE(日期)	2023-02-28	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章):

SHENZHEN ZHONGTIANXUN COMMUNICATION TECHNOLOGY CO., LTD.				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		陈正伟	韦进	



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Revision history

版本	日期	状态
A1	2023-02-28	首版

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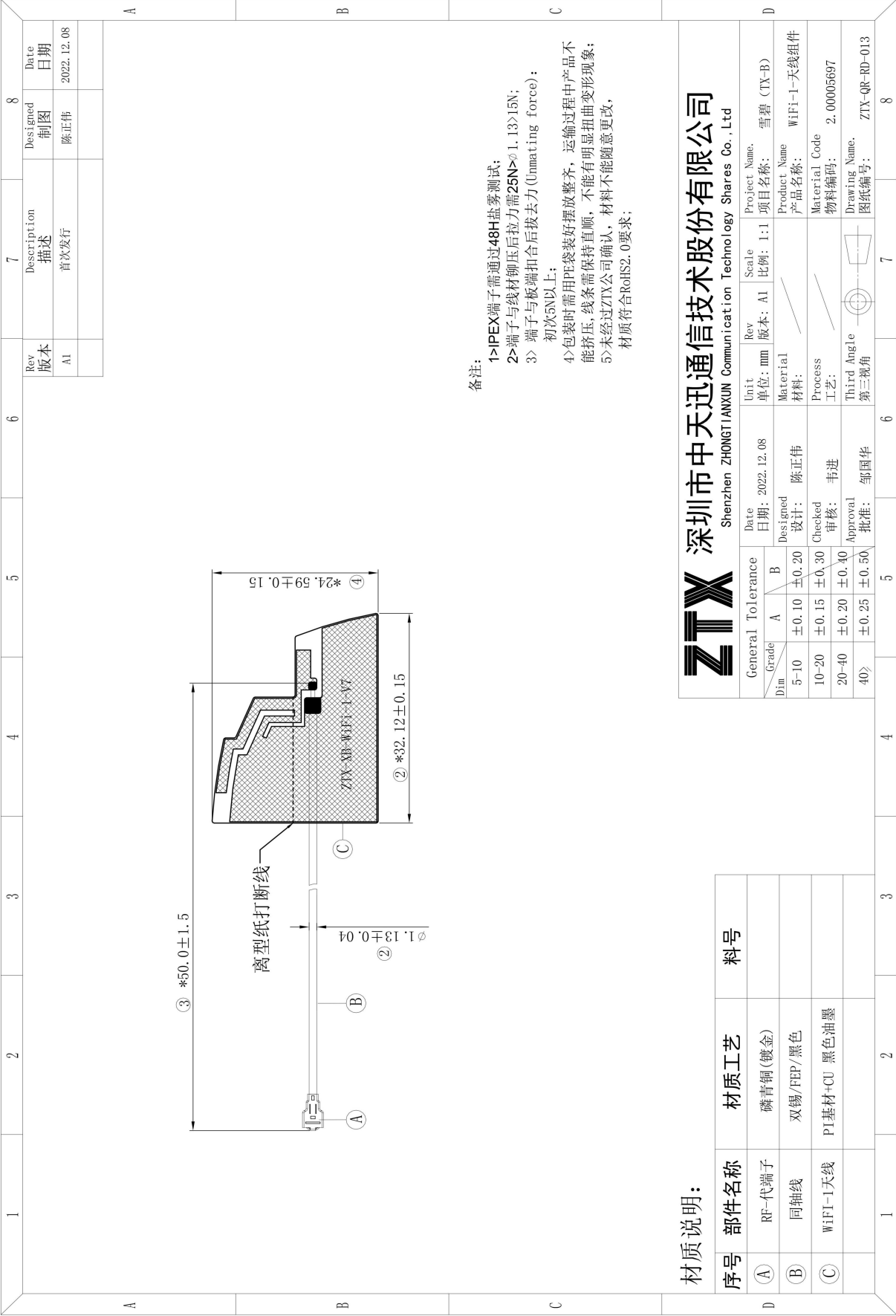
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1. Mechanical Specification

1-1 Mechanical Configuration (WIFI-1 天线)



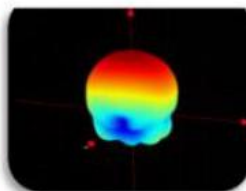
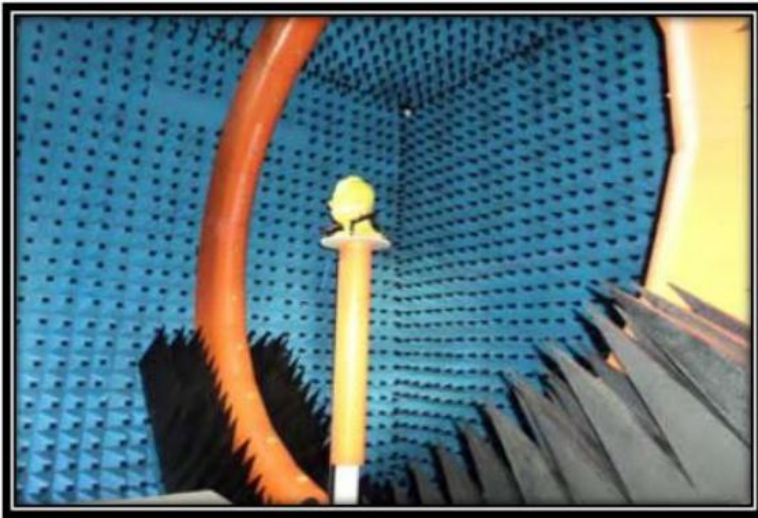
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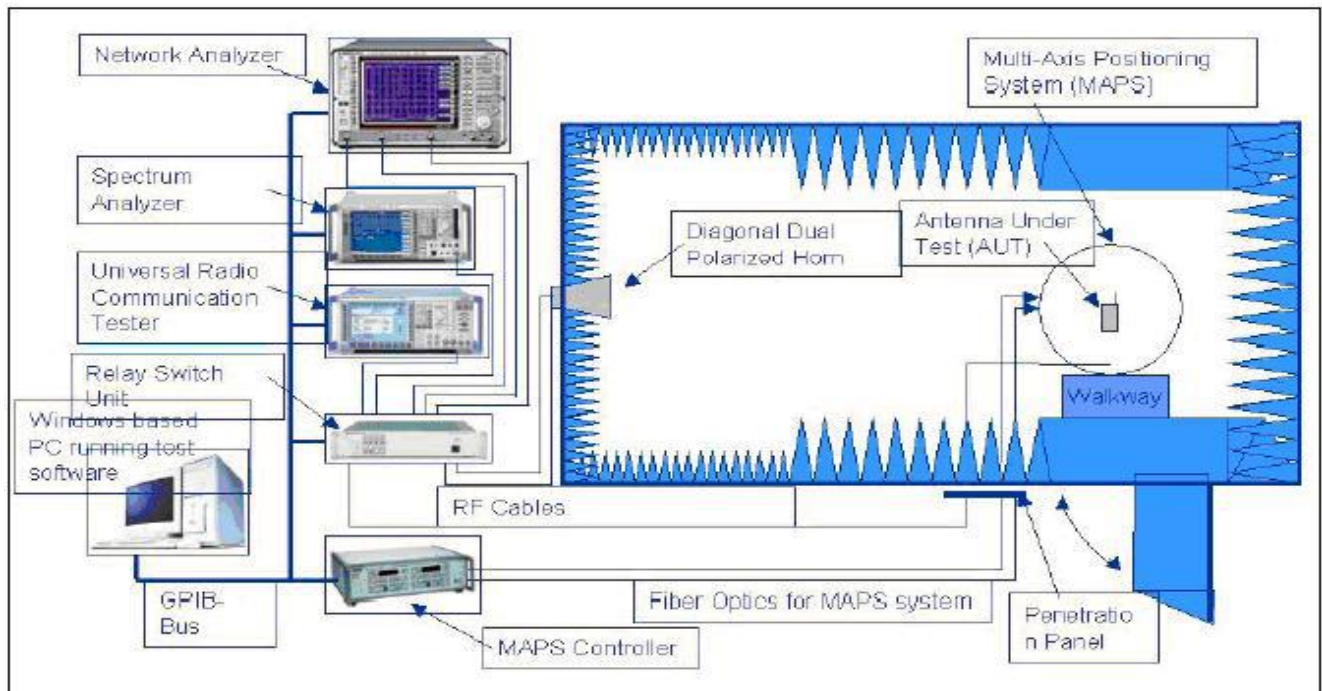
5. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within0.4-6G.



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6.Antenna test data 6-1 Test Data

Frequency (MHz)	2400	2450	2500	5150	5500	5850
WIFI-2	1.4	1.3	1.3	1.5	1.1	1.3
WIFI-1	1.5	1.2	1.4	1.4	1.1	1.5
BT	1.5	1.2	1.6	/	/	/

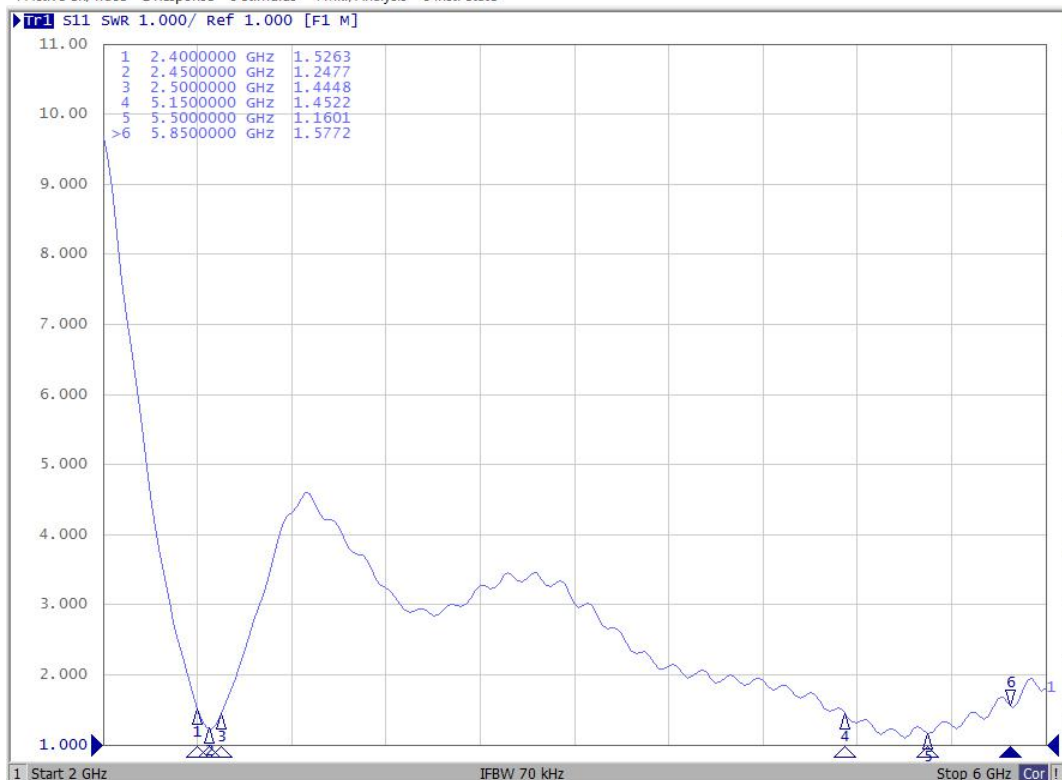
雪碧项目OTA数据+晚上				
频段	模式	CH	TRP	TIS
2.4G	11b (11M)	1	6.8	-78.6
		7	7.1	-78.8
		13	6.9	-80.3
5G	11a (54M)	36	14.5	-71.3
		149	14.8	-72.5
		165	14.6	-72.7

雪碧项目传导数据+晚上				
频段	模式	CH	功率	灵敏度
2.4G	11b (11M)	1	8.5	-88
		7	8.6	-88
		13	8.7	-88
5G	11a(54M)	36	15.5	-76
		149	15.6	-76
		165	15.5	-77

6-2 VSWR 性能要求: $VSWR \leq 2$

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State



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6-3 No-source test data

频率 (MHz)	效率 (%)	增益 (dBi)	频率 (MHz)	效率 (%)	增益 (dBi)
2400	50%	2.8	5150	48%	3.5
2410	49%	2.9	5200	49%	3.6
2420	51%	2.9	5250	52%	3.6
2430	52%	2.9	5300	53%	3.7
2440	53%	3.0	5350	52%	3.6
2450	55%	3.1	5400	50%	3.4
2460	54%	3.1	5450	49%	3.4
2470	52%	3.0	5500	52%	3.6
2480	53%	3.1	5550	51%	3.6
2490	52%	2.9	5600	52%	3.6
2500	51%	2.8	5650	53%	3.7
AVG	52%	3.0	5700	54%	3.7
			5750	52%	3.5
			5800	53%	3.5
			5850	53%	3.6
			5900	52%	3.6
			AVG	51%	3.6

6-4 Matching circuit

N/A

6-5 Environment treatment

N/A

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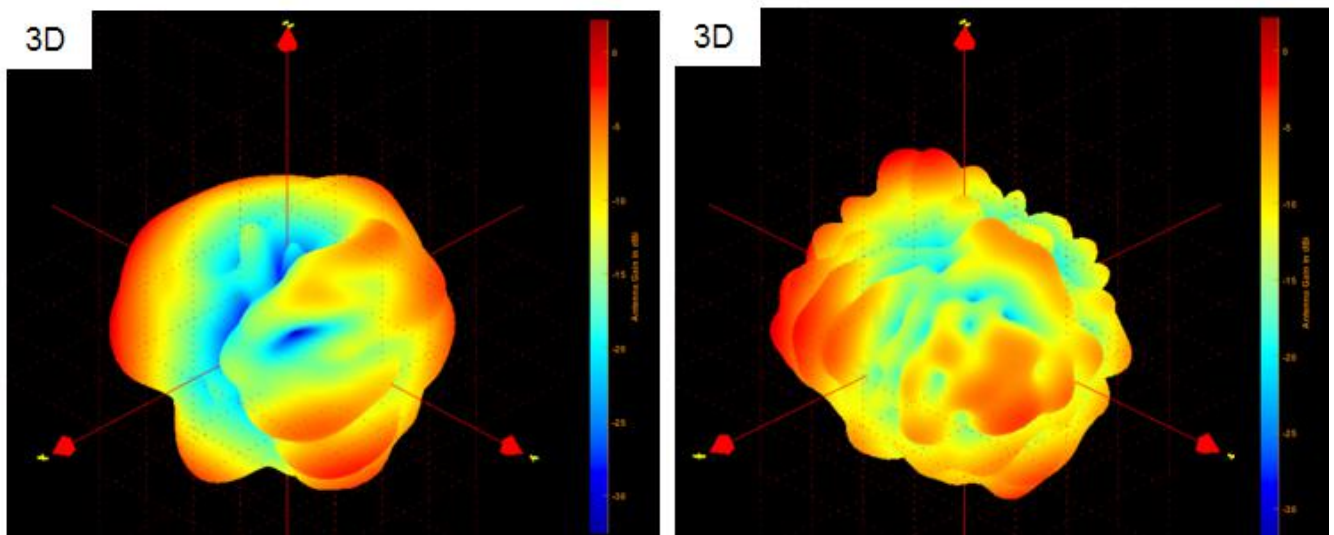
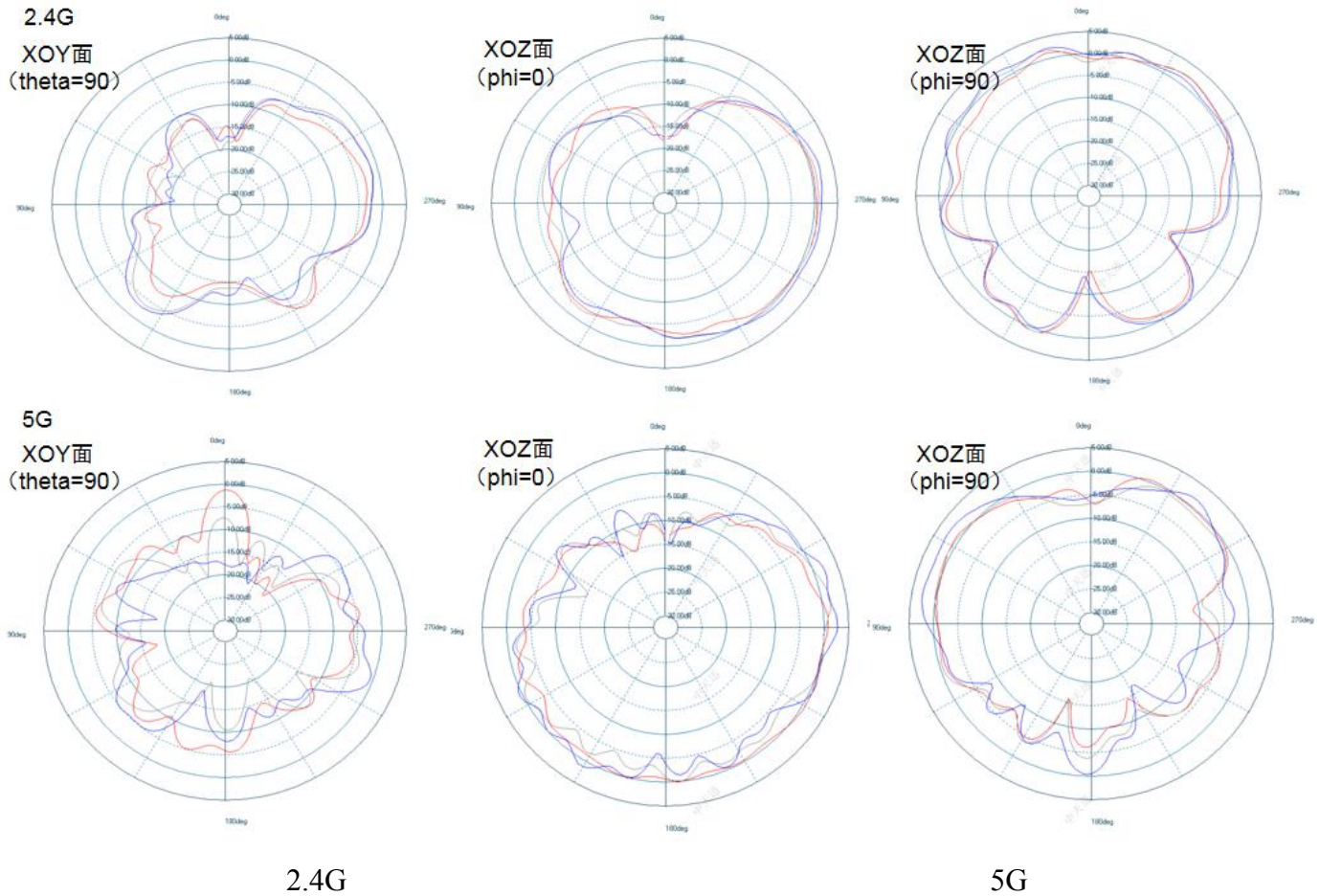
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6-6 2D/3D Radiation Pattern Results



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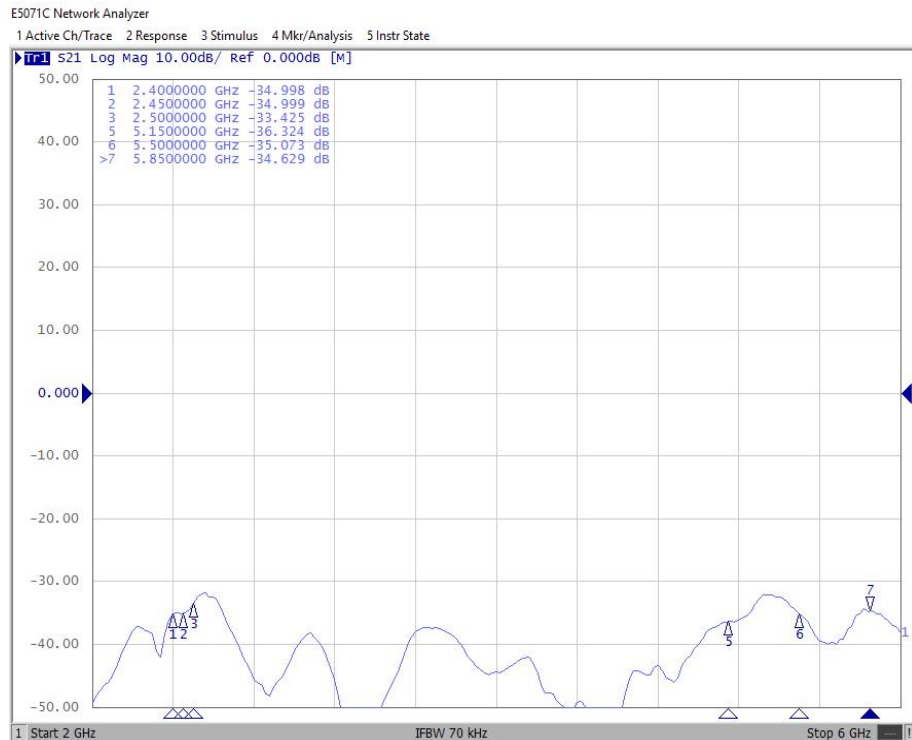
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6-7 Isolation test

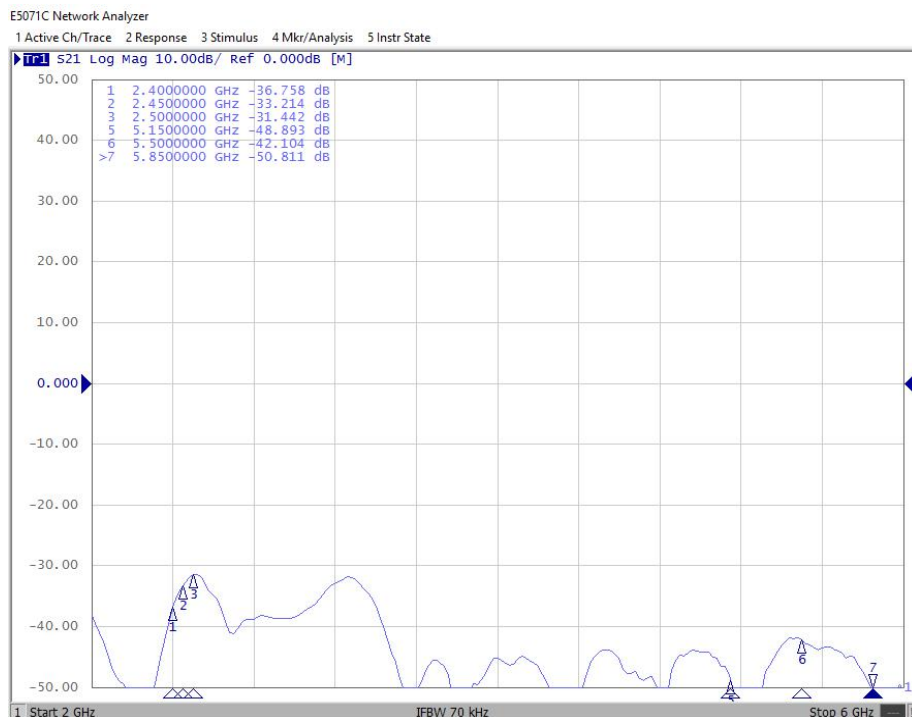
性能要求: WIFI-2&WiFi-1 间隔离度 ≥ 25 dB; BT&WiFi 天线间隔离度 ≥ 25 dB

Frequency (MHz)	2400	2450	2500	5150	5500	5850
BT/WIFI-2	-34.9	-34.9	-33.4	-36.3	-35.1	-34.6
BT/WIFI-1	-36.7	-33.2	-31.4	-48.8	-42.1	-50.8
WIFI2/WIFI-1	-27.4	-26.7	-27.1	-35.5	-41.4	-48.3

BT/WIFI-2



BT/WIFI-1



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WIFI-2/WIFI-1

