

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	xgimi	
	CS P/N	DM003	
	PART NAME	WIFI0 Antenna components	
	FREQUENCY	2400~2500/5150~5900MHz	
	CUSTOM P/N	409-00224-001	
	ZTX NO.	2.00001064	
	DATE	2024-05-20	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章):

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Le.Qin	Jin.We	

ZTX 中天迅

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ANTENNA SPECIFICATION

Revision history

Edition	Date	state
A0	2024-05-20	First edition

ANTENNA SPECIFICATION

CUS P/N :DM003_WIFI0 Antenna components

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ZTX P/N :DM003_WIFI0 Antenna components

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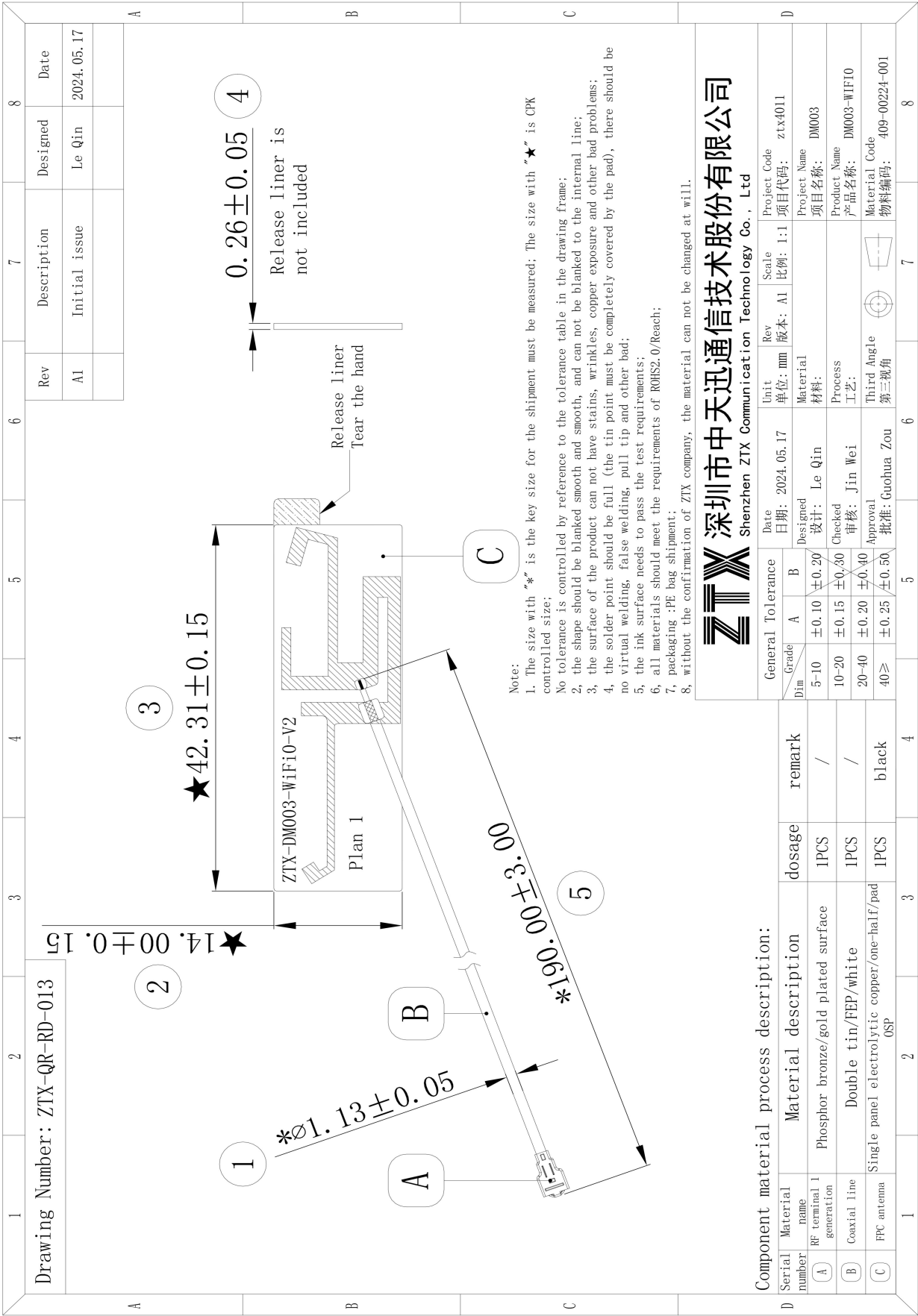
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ANTENNA SPECIFICATION

1. Mechanical Specification
1-1 Mechanical Configuration (WiFi0 Antenna components)



ANTENNA SPECIFICATION

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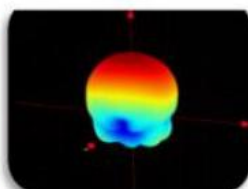
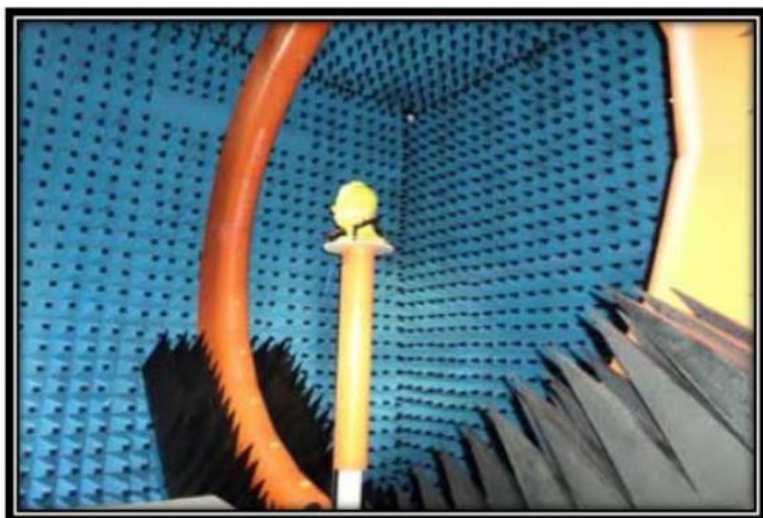
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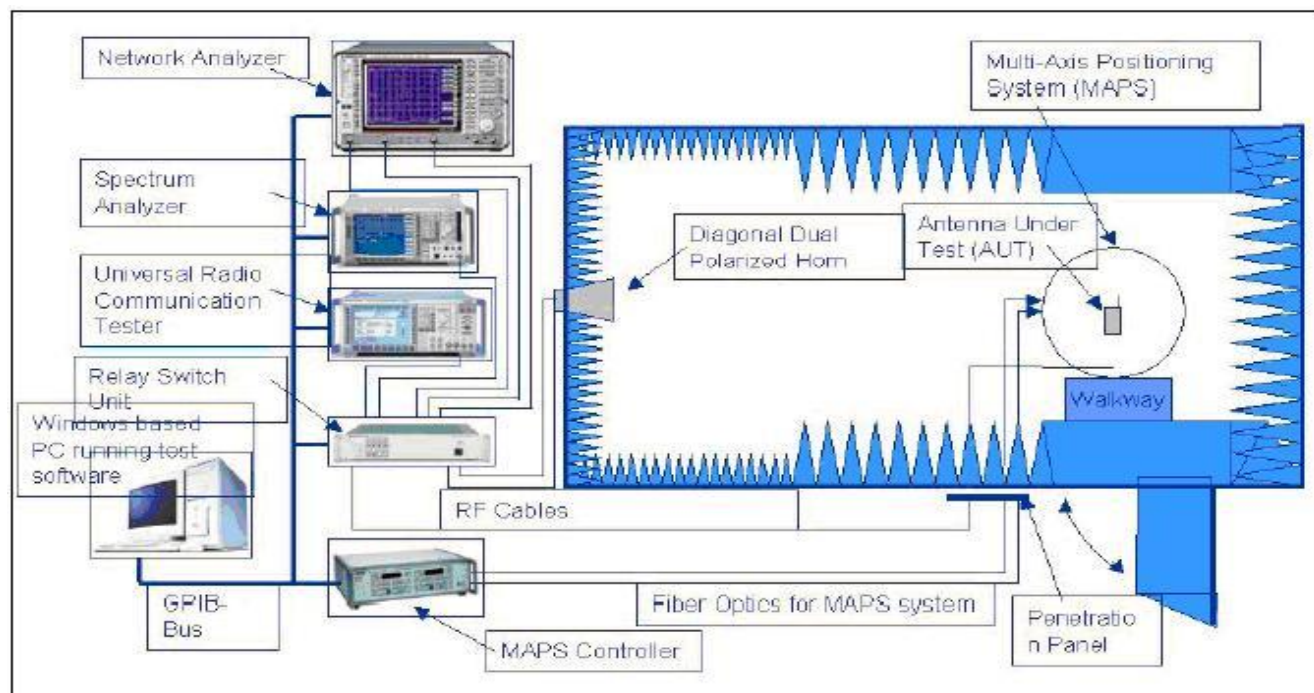
2. Test equipment



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 within 0.4-6G.



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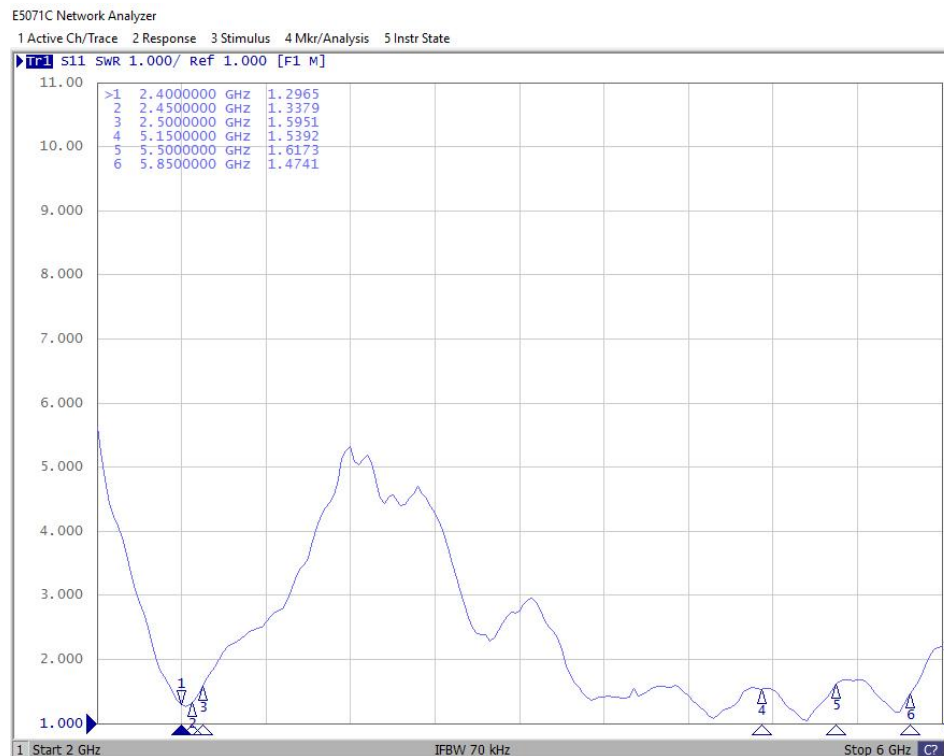
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3.Antenna test data

3-1 VSWR

	Frequency (MHz)	2400	2450	2500	5150	5500	5850
VSWR	WIFI-0	1.2	1.3	1.5	1.5	1.6	1.4
	WIFI-1	1.3	1.4	1.5	1.2	1.1	1.1
	BT	1.5	1.6	1.5	/	/	/



3-2 No-source test data

WIFI-0			WIFI-0		
频率 (MHz)	效率 (%)	增益 (dBi)	频率 (MHz)	效率 (%)	增益 (dBi)
2400	56	4.6	5150	56	4.7
2410	56	4.7	5200	56	4.8
2420	57	4.7	5250	57	4.6
2430	57	4.8	5300	56	4.6
2440	57	4.9	5350	56	4.5
2450	57	5.0	5400	57	4.8
2460	56	5.0	5450	56	4.9
2470	56	5.0	5500	56	4.9
2480	57	5.1	5550	56	5.0
2490	56	4.9	5600	57	5.1
2500	57	5.0	5650	56	4.9
AVG	56	4.8	5700	56	4.7
			5750	55	4.8
			5800	56	4.8
			5850	57	4.9
			5900	56	4.9
			AVG	56	4.7

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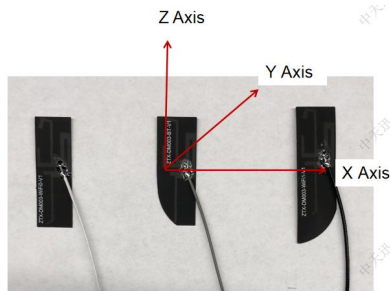
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3-3 2D/3D Radiation Pattern Results

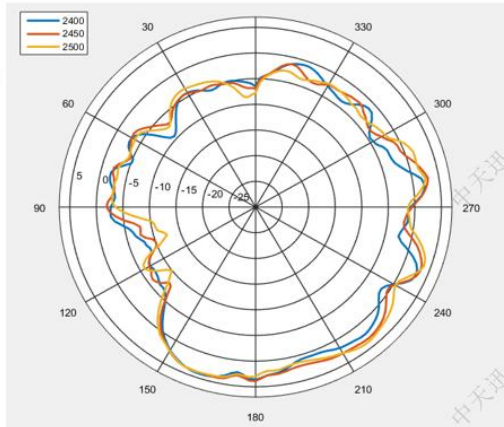


The X-axis forward is parallel to the right side of the antenna

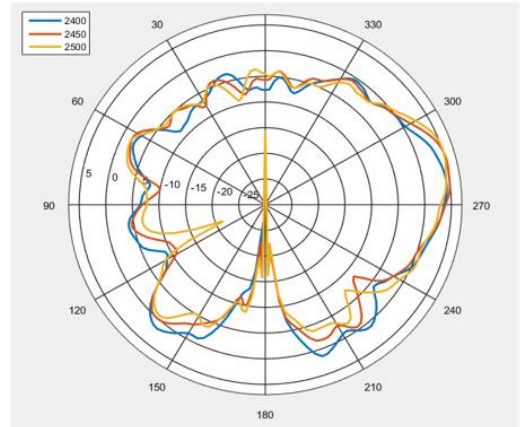
The Y-axis forward is perpendicular to the front of the antenna

The Z-axis is parallel to the front of the antenna

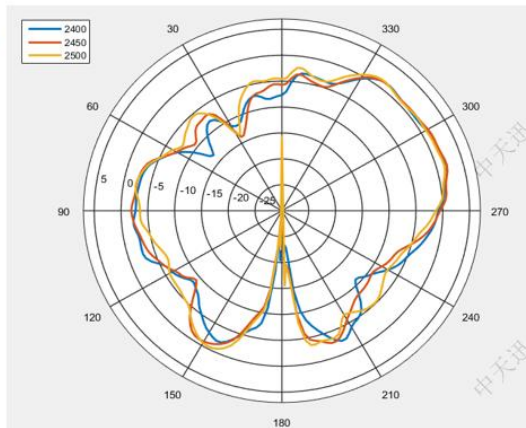
2.4G
XOY面
($\theta=90^\circ$)



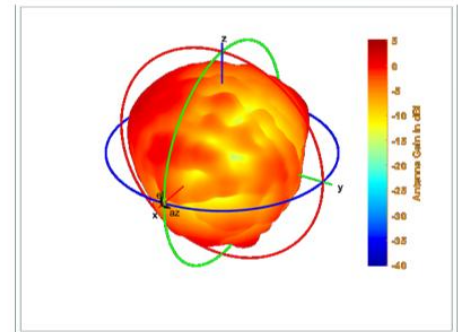
XOZ面
($\phi=0^\circ$)



YOZ面
($\phi=90^\circ$)



3D



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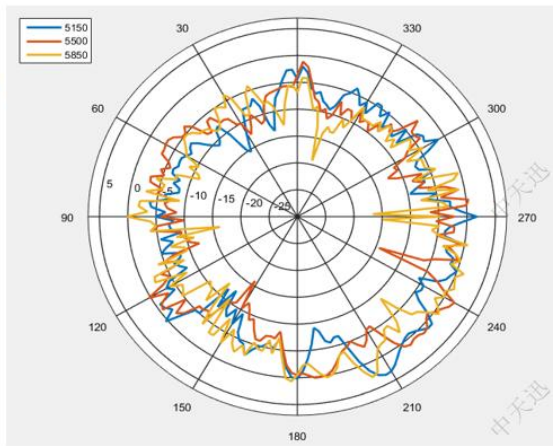
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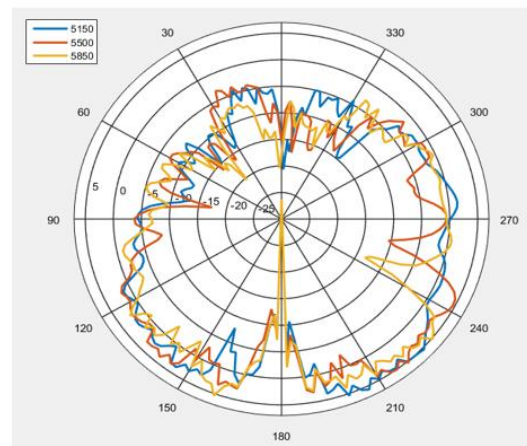
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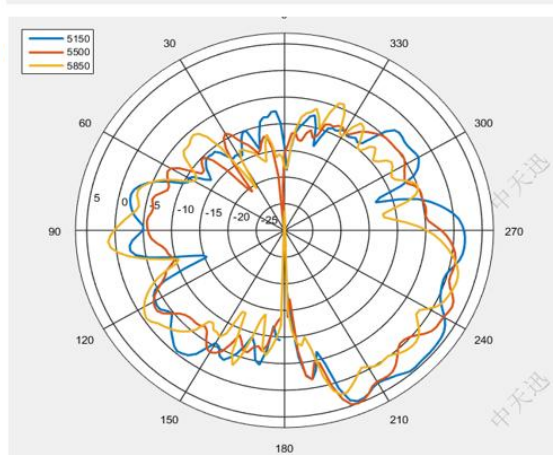
5G
XOY面
(theta=90)



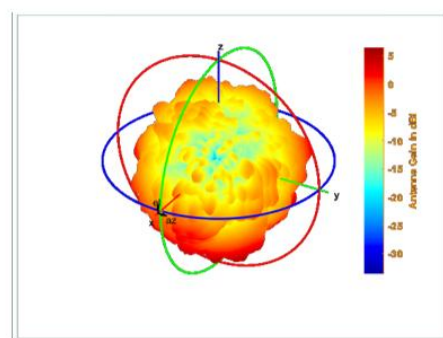
XOZ面
(phi=0)



YOZ面
(phi=90)



3D



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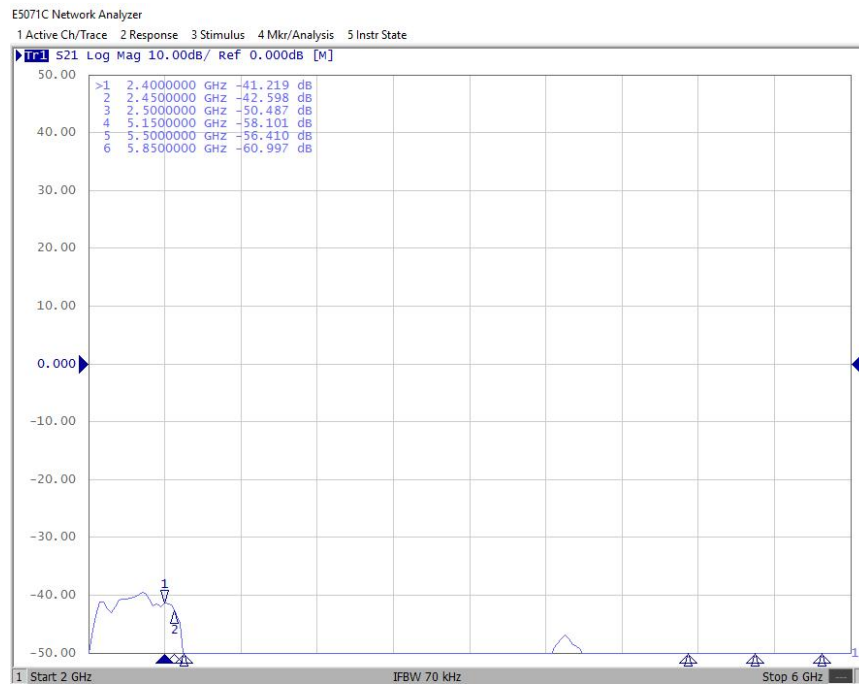
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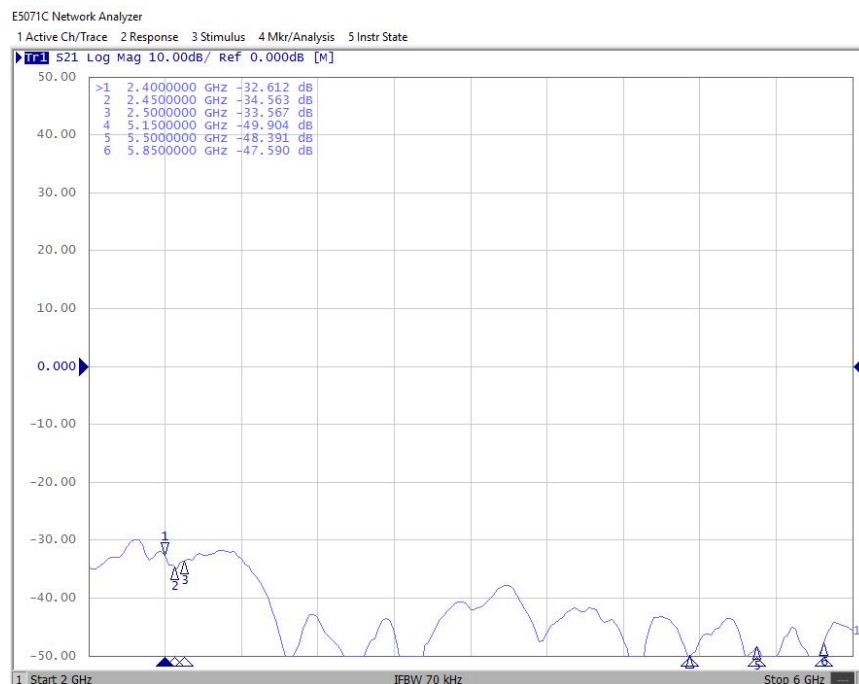
3-4 Isolation test

	Frequency (MHz)	2400	2450	2500	5150	5500	5850
隔离度	BT/WIFI-0	-32	-34	-33	-49	-48	-47
	BT/WIFI-1	-35	-37	-36	-48	-48	-42
	WIFI-0/WIFI-1	-41	-42	-50	-58	-56	-60

WiFi 0&WiFi 1



WiFi 0&BT



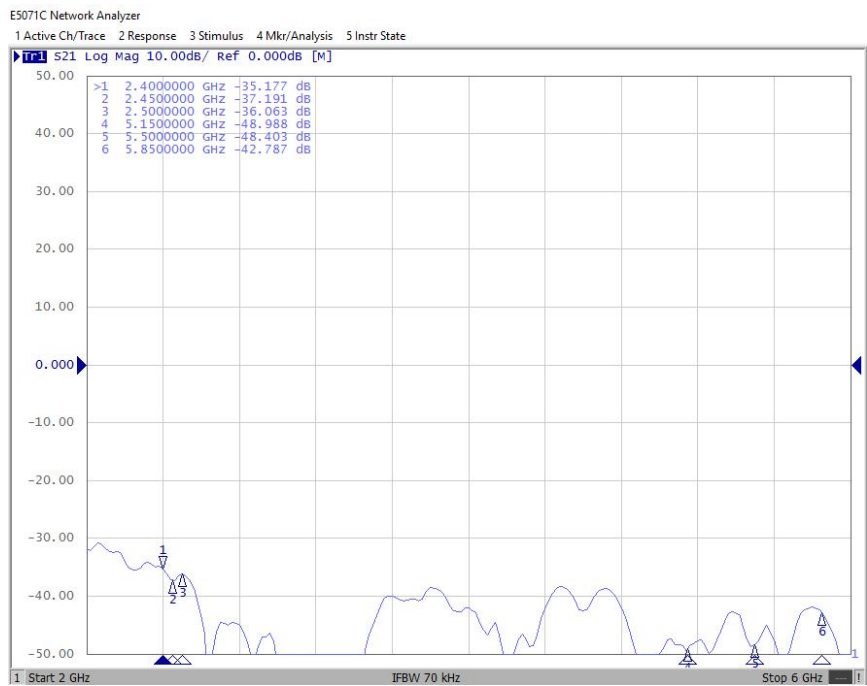
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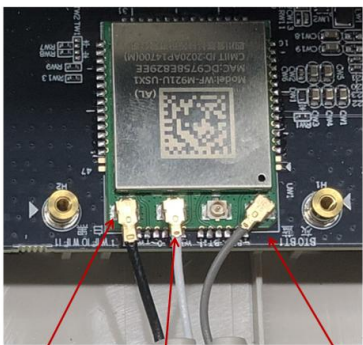
WiFi 1&BT



3-5 Model number of antenna



Antenna Number	Part Number
WIFI-0	2.00001064
WIFI-1	2.00001065
BT	2.00001063



WIFI1 WIFI0 BT