

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	xgimi	
	CS P/N	DM003	
	PART NAME	WIFI1 Antenna components	
	FREQUENCY	2400~2500/5150~5900MHz	
	CUSTOM P/N	409-00222-001	
	ZTX NO.	2.00001065	
	DATE	2024-05-10	

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	



Shenzhen ZTX Communication Technology Co., Ltd

Address: No.34, Shilong Avenue, Shiyan Town, Baoan District, Shenzhen, (Tengda Industrial Park) 518000

Tel.: 0755-27588320 Fax: 0755-27588045 <http://www.chinaztx.com>

ANTENNA SPECIFICATION

CUS P/N :DM003_WIFI1 Antenna components

Application Date:May,20,2024

Rev: R:A0

ZTX P/N :DM003_WIFI1 Antenna components

Editor:

Page 1 of 9

Revision history

Edition	Date	state
A0	2024-05-20	First edition

ANTENNA SPECIFICATION

CUS P/N :DM003_WIFI1 Antenna components

Application Date:May,20,2024

Rev: R:A0

ZTX P/N :DM003_WIFI1 Antenna components

Editor:

Page 2 of 9

Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification (WIFI1 Antenna components)	3
2		Test equipment	4
3		Antenna test data	5
	3-1	VSWR	5
	3-2	No-source test data	5
	3-3	2D/3D Radiation Pattern Results	6~7
	3-4	Isolation test	8~9
	3-5	Model number of antenna	9

Rev: R:A0
Page 3 of 9

1-1 Mechanical Configuration (WIFI1 Antenna components)



ANTENNA SPECIFICATION

CUS P/N :DM003_WIFI1 Antenna components

Application Date:May,20,2024

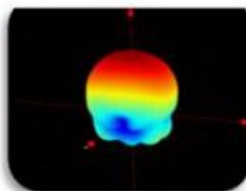
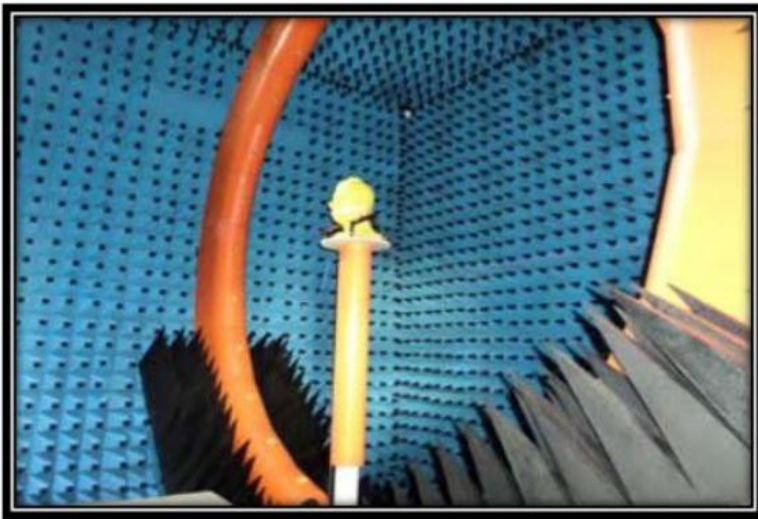
Rev: R:A0

ZTX P/N :DM003_WIFI1 Antenna components

Editor:

Page 4 of 9

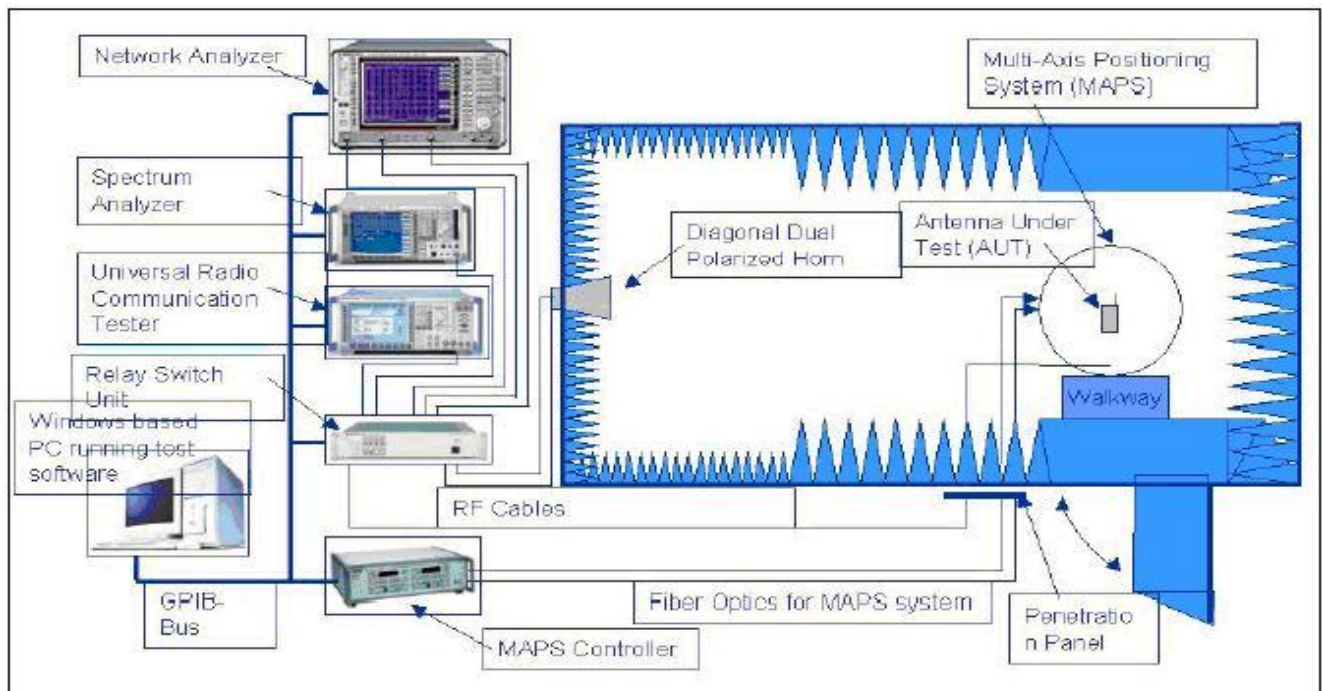
2. Test equipment



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.



ANTENNA SPECIFICATION

CUS P/N :DM003_WIFI1 Antenna components

Application Date:May,20,2024

Rev: R:A0

ZTX P/N :DM003_WIFI1 Antenna components

Editor:

Page 5 of 9

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-1			WIFI-1		
频率 (MHz)	效率 (%)	增益 (dBi)	频率 (MHz)	效率 (%)	增益 (dBi)
2400	53	4.6	5150	52	4.7
2410	53	4.7	5200	51	4.6
2420	53	4.7	5250	51	4.5
2430	54	4.7	5300	52	4.6
2440	53	4.8	5350	52	4.7
2450	52	4.8	5400	52	4.8
2460	53	4.9	5450	53	4.5
2470	52	4.8	5500	50	4.6
2480	53	5.0	5550	52	4.5
2490	52	4.8	5600	52	4.5
2500	52	4.8	5650	53	4.4
AVG	52	4.8	5700	52	4.4
			5750	51	4.5
			5800	50	4.4
			5850	52	4.5
			5900	51	4.3
			AVG	49	4.6

ANTENNA SPECIFICATION

CUS P/N :DM003_WIFI1 Antenna components

Application Date:May,20,2024

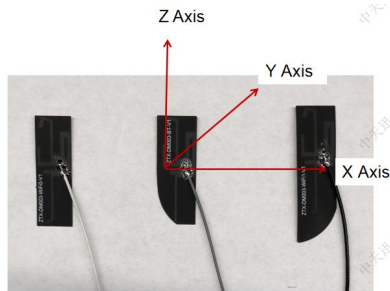
Rev: R:A0

ZTX P/N :DM003_WIFI1 Antenna components

Editor:

Page 6 of 9

3-3 2D/3D Radiation Pattern Results

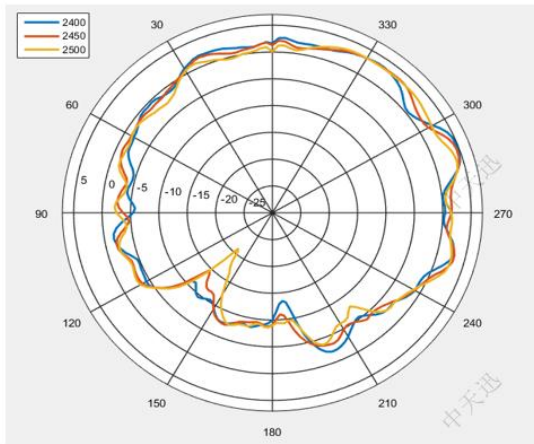


The X-axis forward is parallel to the right side of the antenna

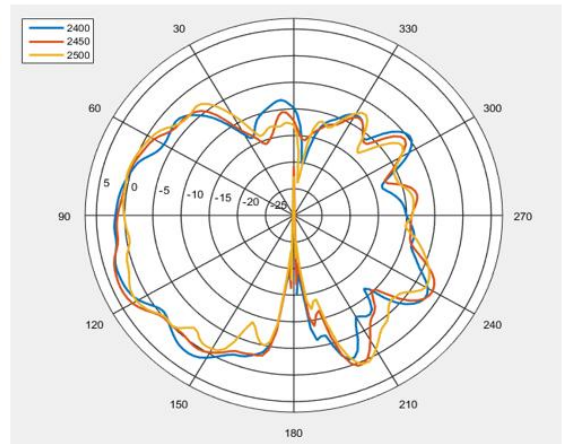
The Y-axis forward is perpendicular to the front of the antenna

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

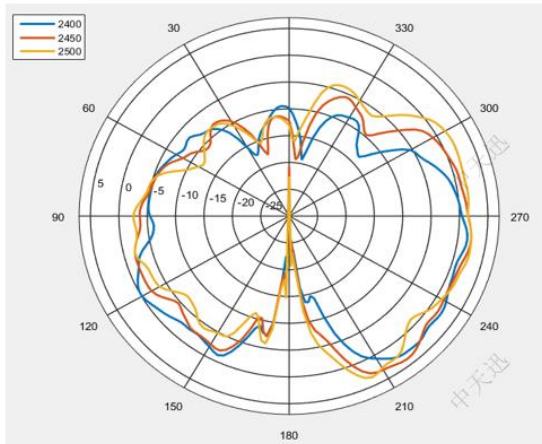
2.4G
XOY面
(theta=90)



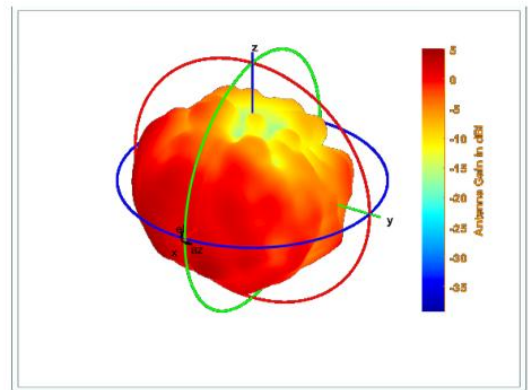
XOZ面
(phi=0)



YOZ面
(phi=90)



3D



ANTENNA SPECIFICATION

CUS P/N :DM003_WIFI1 Antenna components

Application Date:May,20,2024

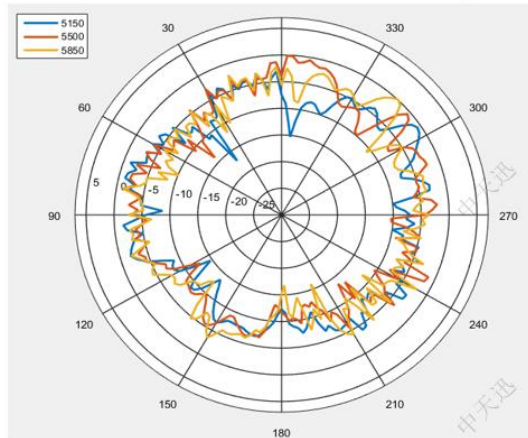
Rev: R:A0

ZTX P/N :DM003_WIFI1 Antenna components

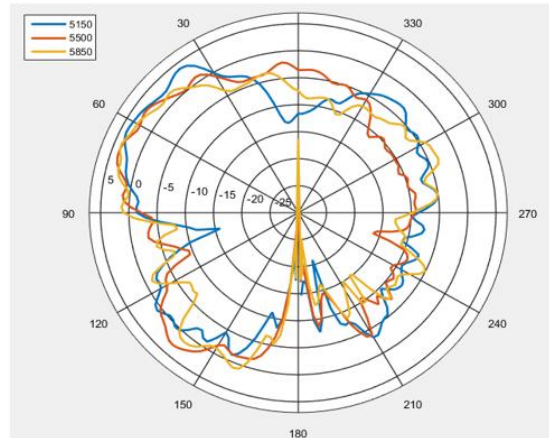
Editor:

Page 7 of 9

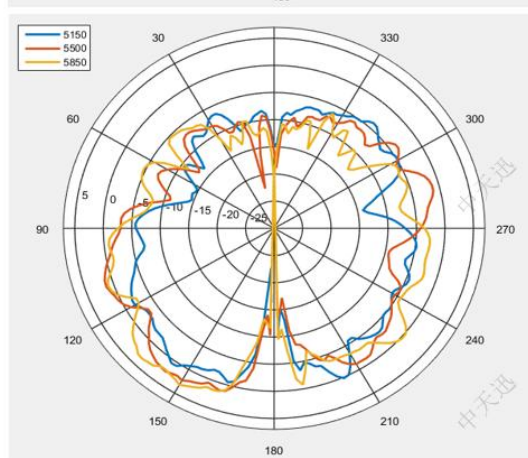
5G
XOY面
(theta=90)



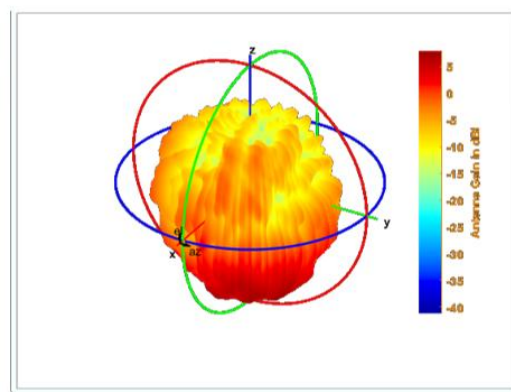
XOZ面
(phi=0)



YOZ面
(phi=90)



3D



ANTENNA SPECIFICATION

CUS P/N :DM003_WIFI1 Antenna components

Application Date:May,20,2024

Rev: R:A0

ZTX P/N :DM003_WIFI1 Antenna components

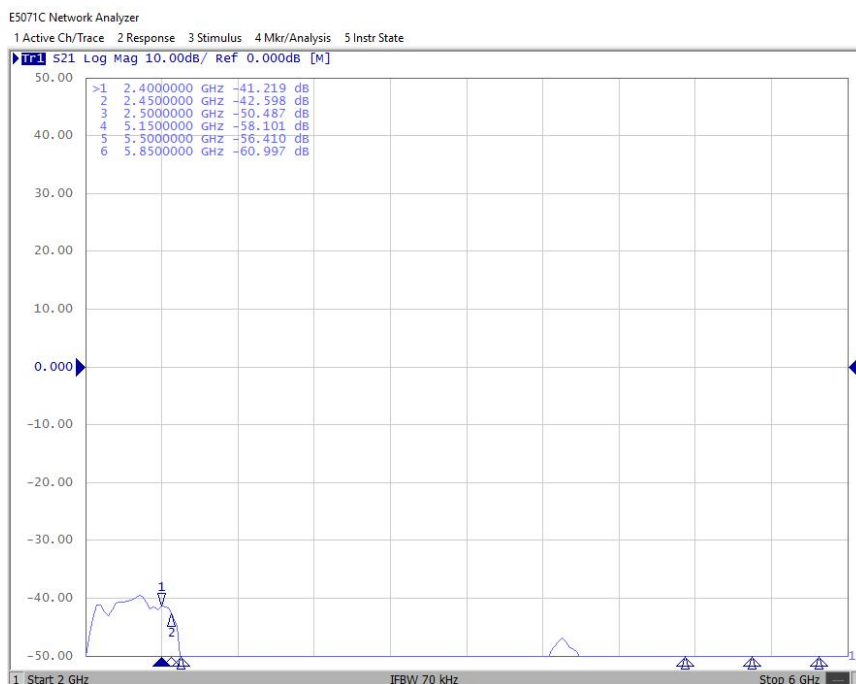
Editor:

Page 8 of 9

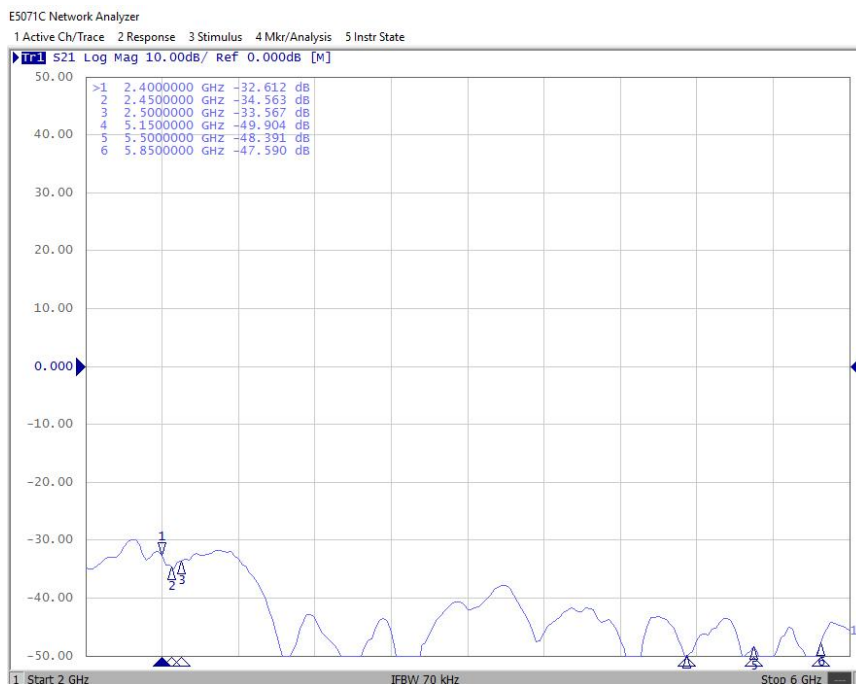
3-4 Isolation test

	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



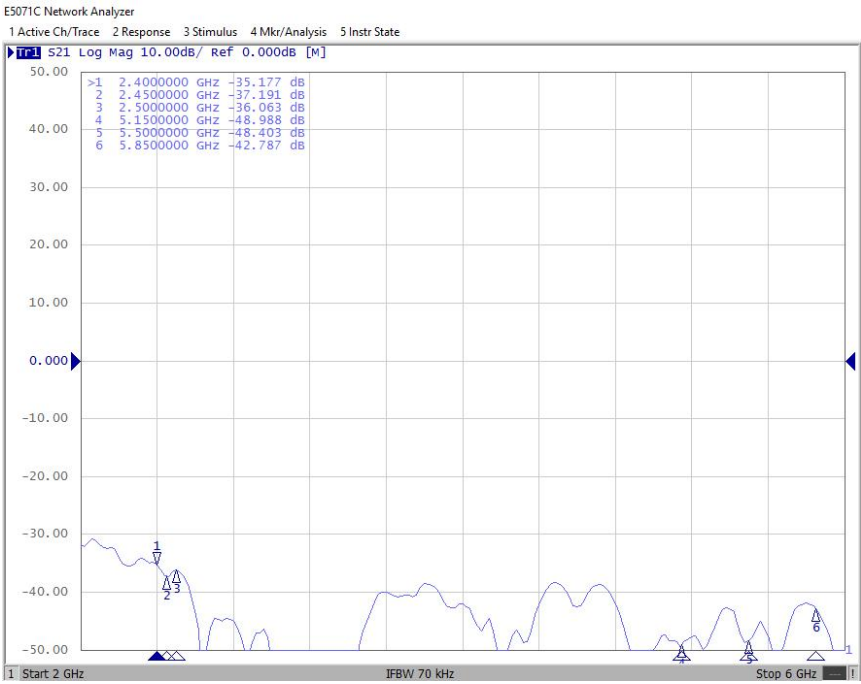
ANTENNA SPECIFICATION

CUS P/N :DM003_WIFI1 Antenna components
ZTX P/N :DM003_WIFI1 Antenna components

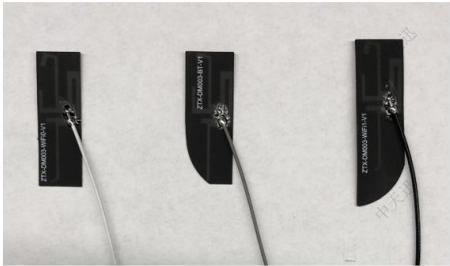
Application Date:May,20,2024
Editor:

Rev: R:A0
Page 9 of 9

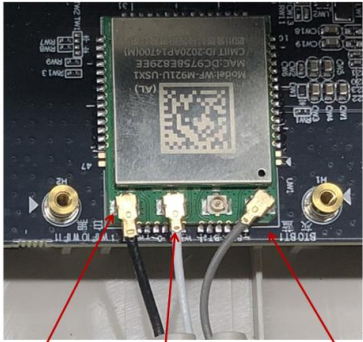
WiFi 1&BT



3-5 Model number of antenna



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



WIFI1 WIFI0 BT