

SPECIFICATION APPROVAL SHEET

客 户 :

CUSTOMER

客 户 料 号 :

CUS PART NO

版次:

REV

X2

品 名 / 规格 :

2.4~2.5/5.15~5.85GHz

单重:

SPECIFICATION WiFi AUX Antenna L=175mm(Ø0.81+MHF4)

weight

供 方 料 号 :

SUP PART NO

SLEingB244970185

日 期 :

DATE

2024.03.27

厂 商 核 准 :

SUP APPROVED

核准 APPROVED	结构审核 Structure audit	RF审核 RF CHECKED	品保审核 QA CHECKED	承办 DESIGNED
Jackey 2024.3.27	Jerry	2024.03.27	2024.03.27	Jmandb

客 户 核 准 :

CUS APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED

DONGGUAN SLEing INTEL-TECH CO., LTD

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正本由承办单位保存



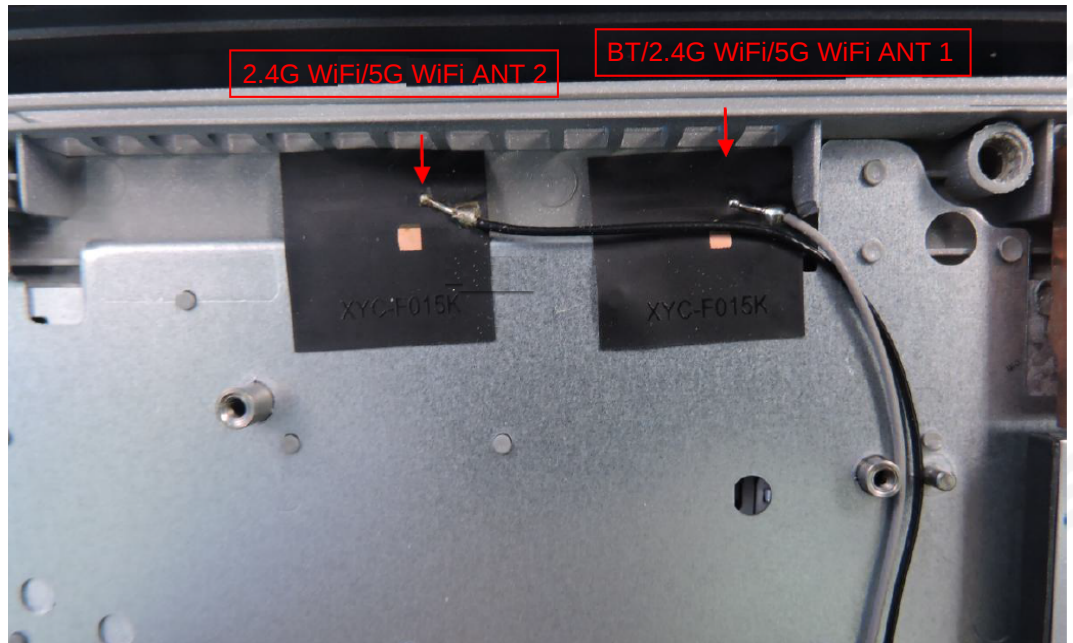
DONGGUAN SLEing INTEL-TECH CO., LTD

Test Reports

Electrical Properties	
Frequency	2400-2500/5150-5850 MHz(
Impedance	50 Ohm Nominal
V.S.W.R	≤ 3.0
Return Loss	-6dB Max
Radiation	Omni-directional
Gain (Peak)	2.4G: 2.94 dBi/5.8G: 6.15 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	$\Phi 0.81\text{mm}$ Grey
Operating Temp	-40°C-85°C
Storage Temp.	-40°C-85°C

Antenna assembly diagram

Device



Antenna

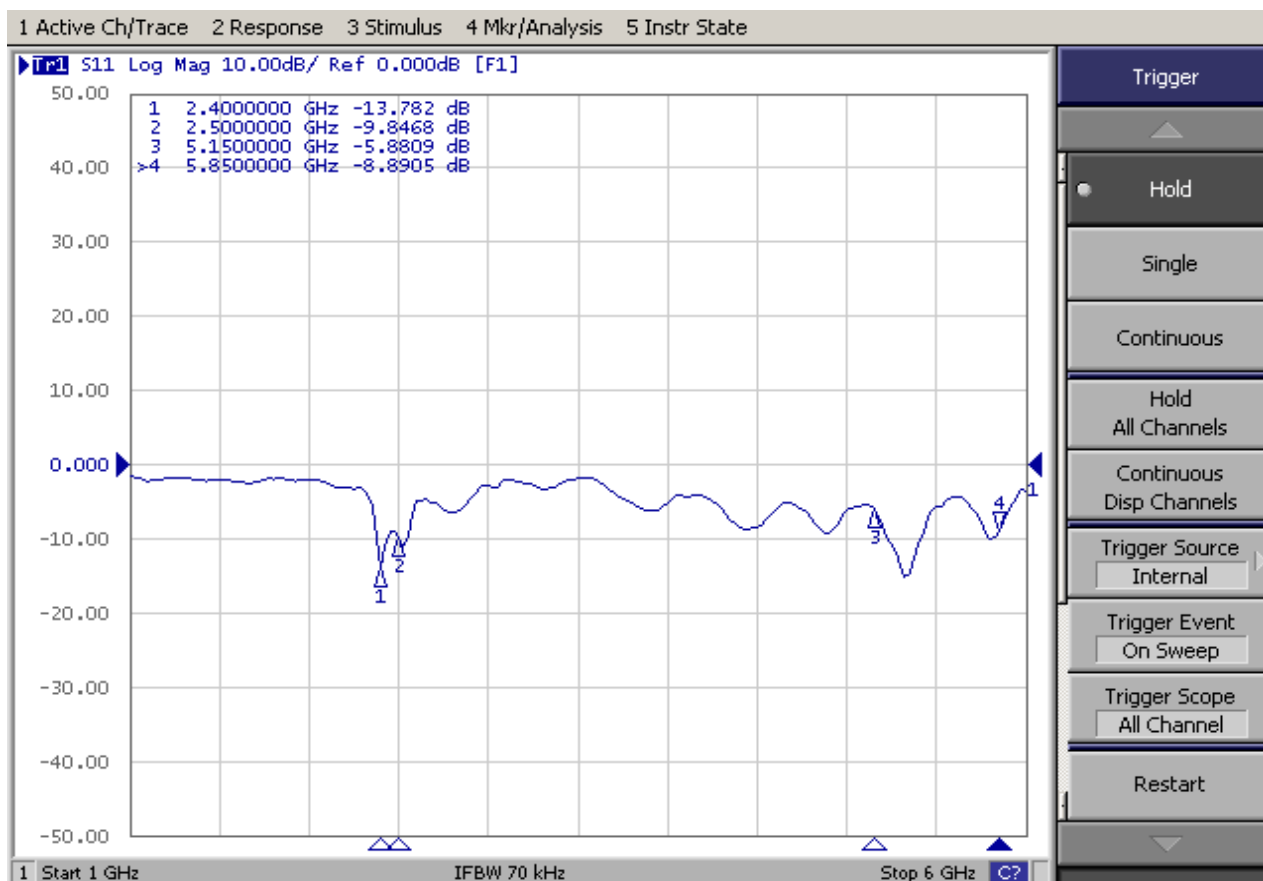


S Parameter Test

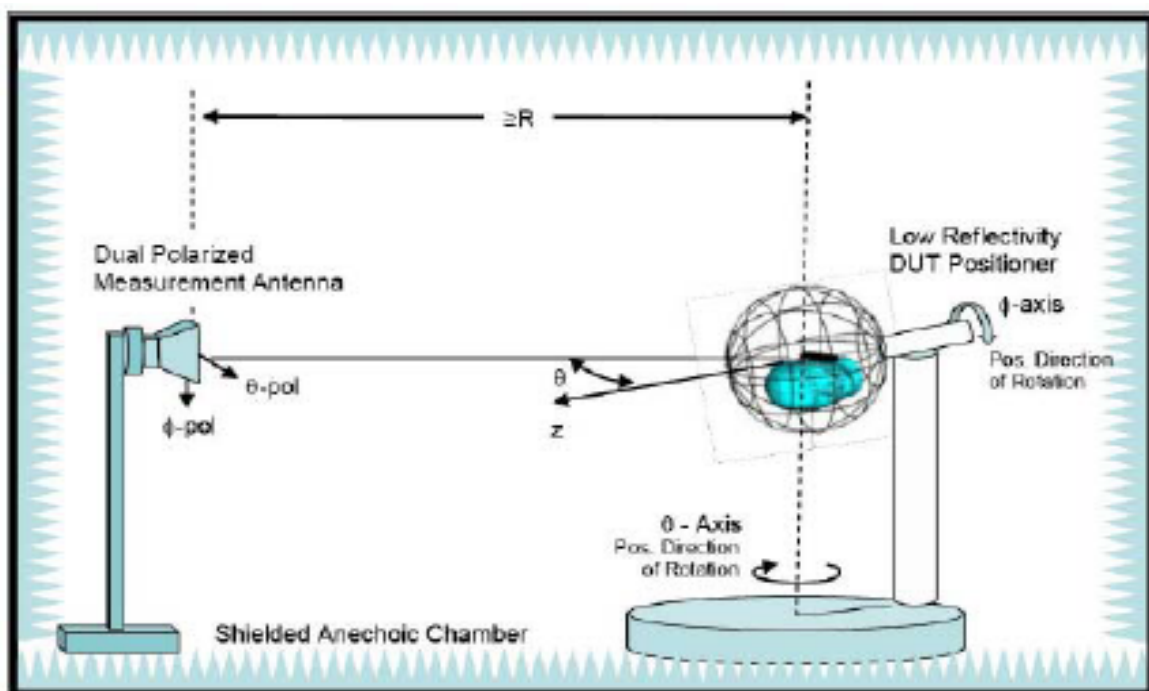
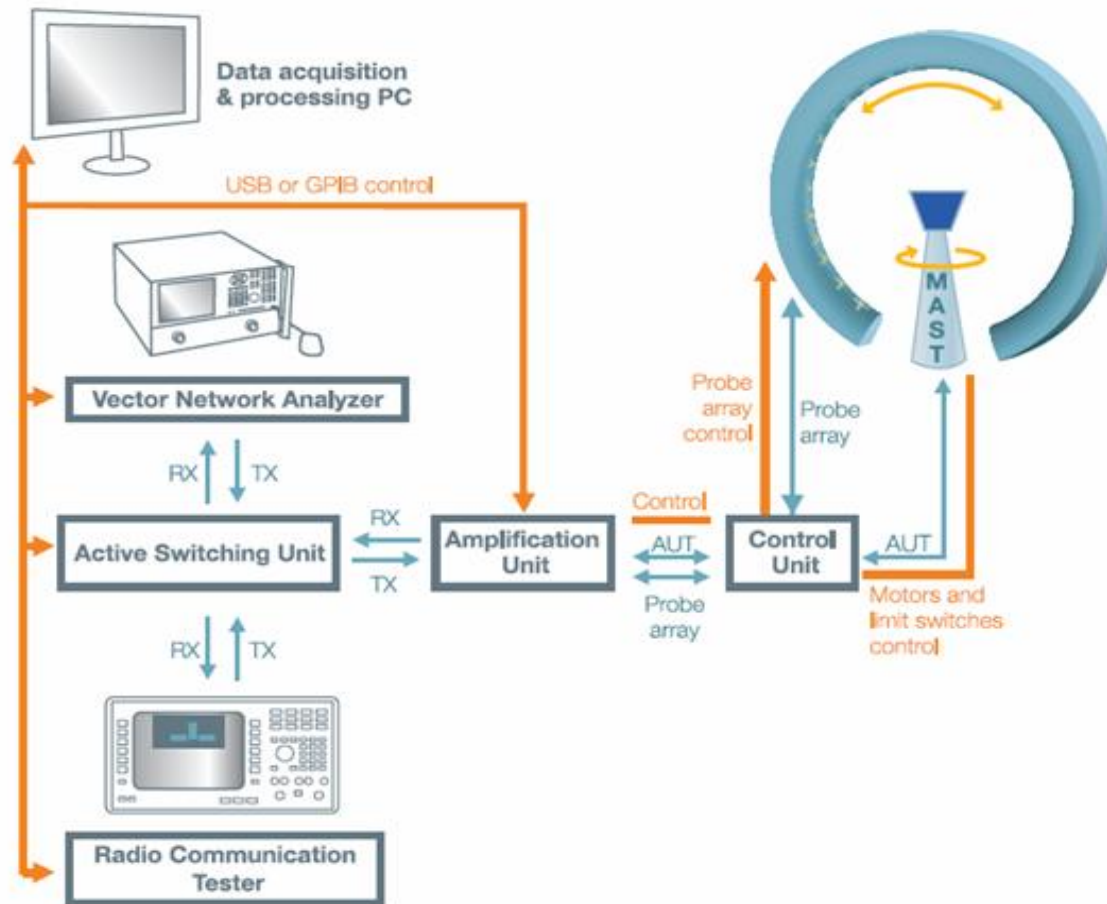
Agilent E5071C Network Analyzer



RF Antenna (Return Loss)



Test Setup



Test Efficiency

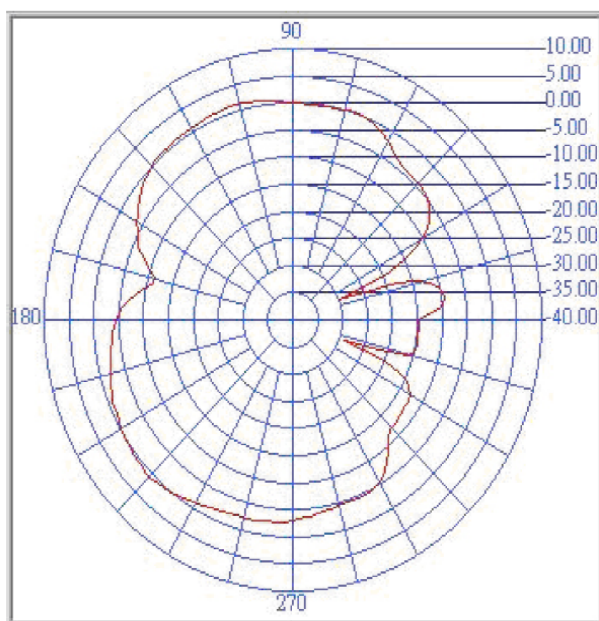
WiFi Antenna 2

WiFi AUX天线数据

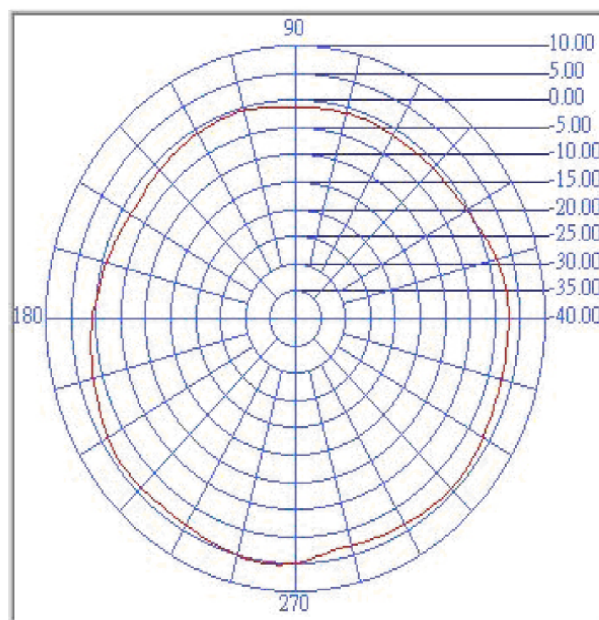
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-6.51	-6.12	-5.72	-5.43	-5.14	-4.51	-4.59	-4.69	-5.15	-5.52	-6.11
Gain (dBi)	1.83	2.06	2.16	2.18	2.38	2.94	2.78	2.51	2.28	1.99	1.08
Efficiency (%)	22.35	24.42	26.79	28.62	30.61	35.44	34.75	33.94	30.57	28.08	24.48

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
-5.89	-6.72	-6.66	-5.90	-4.97	-5.21	-5.23	-5.06	-5.10	-4.72	-5.09	-5.58	-6.22	-6.66	-6.24
2.84	1.97	3.57	3.46	5.01	4.66	4.15	5.07	6.15	6.70	6.00	5.40	3.03	2.11	2.68
25.74	21.28	21.59	25.71	31.83	30.13	29.99	31.22	30.92	33.74	30.99	27.65	23.88	21.57	23.76

2450MHz 2D



5500MHz 2D



Test TRP/ TIS

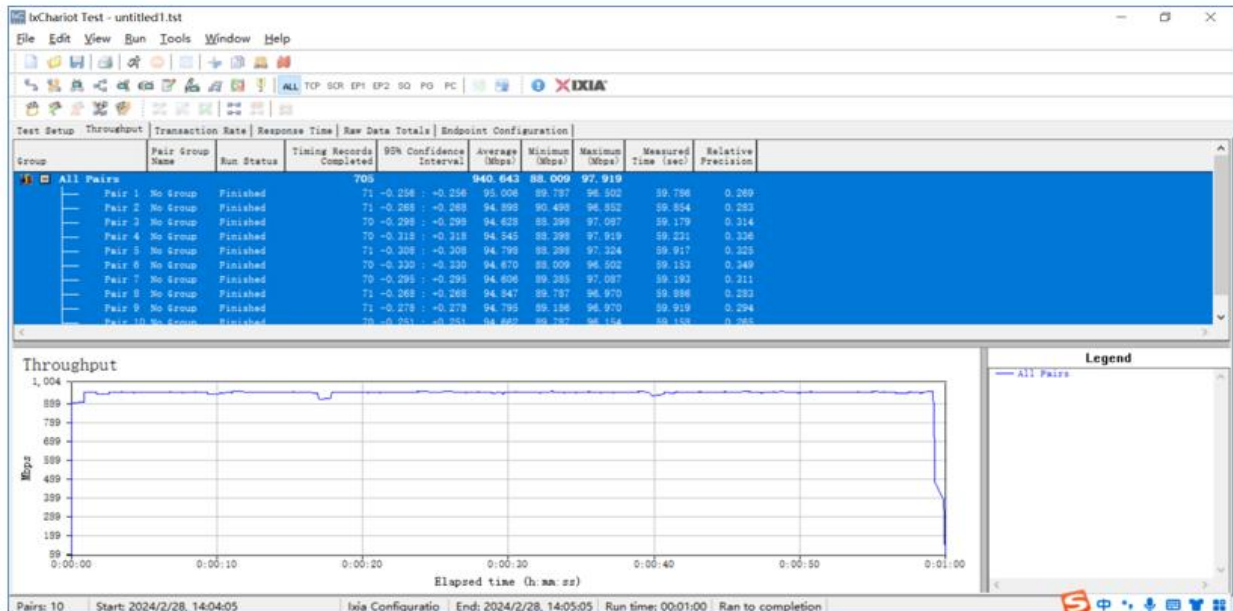
WLAN Antenna Performance					
WLAN Whole Band TRP (dBm) _____					
WLAN Whole Band TIS (dBm) _____					
		Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)
Phone Tx (Uplink Path)	<u>1</u>	1	--	9.39	--
	<u>2</u>	6	--	9.22	--
	<u>3</u>	11	--	9.87	--
	<u>4</u>	--	--	--	--
	<u>5</u>	--	--	--	--
Phone Rx (Downlink Path)	<u>1</u>	1	--	--	-79.46
	<u>2</u>	6	--	--	-79.23
	<u>3</u>	11	--	--	-78.53
	<u>4</u>	--	--	--	--
	<u>5</u>	--	--	--	--

11B有源数据

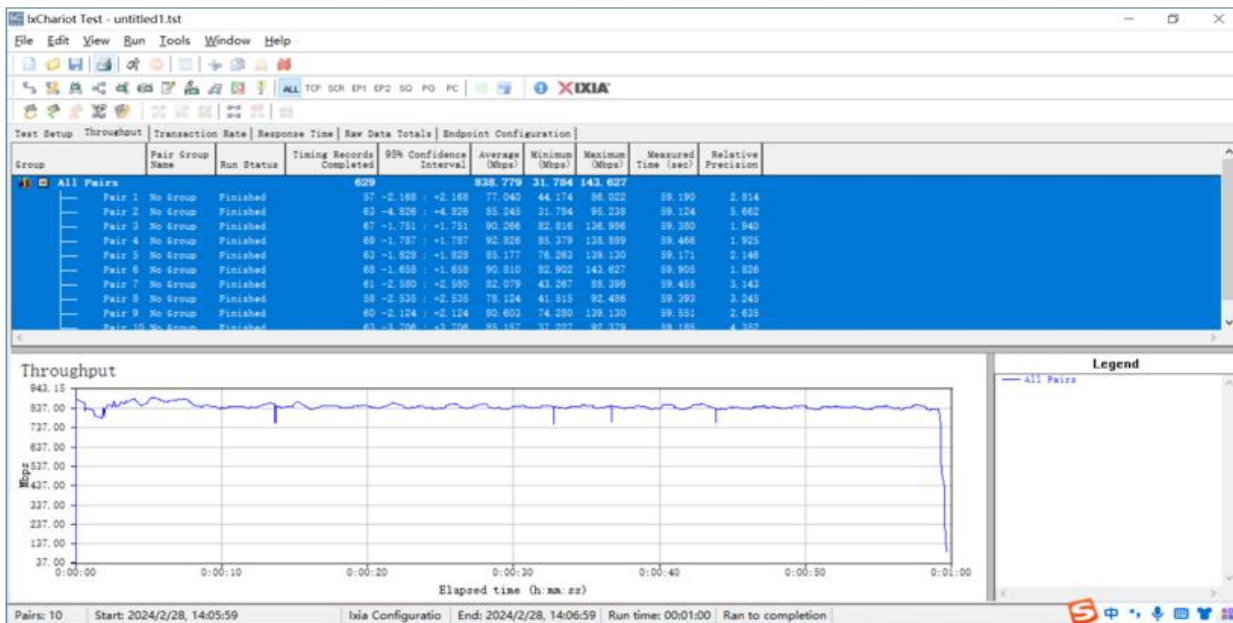
WLAN Antenna Performance					
WLAN Whole Band TRP (dBm) _____					
WLAN Whole Band TIS (dBm) _____					
		Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)
Phone Tx (Uplink Path)	<u>1</u>	36	--	10.53	--
	<u>2</u>	60	--	10.81	--
	<u>3</u>	149	--	11.01	--
	<u>4</u>	--	--	--	--
	<u>5</u>	--	--	--	--
Phone Rx (Downlink Path)	<u>1</u>	36	--	--	-69.78
	<u>2</u>	60	--	--	-68.78
	<u>3</u>	149	--	--	-69.88
	<u>4</u>	--	--	--	--
	<u>5</u>	--	--	--	--

11A有源数据

Throughput test



吞吐量发射数据940



吞吐量接收数据838