



DONGGUAN SLEing INTEL-TECH CO., LTD

承 认 书

SPECIFICATION APPROVAL SHEET

客 户 :

CUSTOMER

客 户 料 号 :

CUS PART NO

版次:

REV

X1

品 名 / 规格 :

2.4-2.5/5.15-5.85GHz

单重:

SPECIFICATION

WIFI MAIN Antenna L=230mm(Ø0.81+MHF)

weight

供 方 料 号 :

SUP PART NO

SLEingB244970240

日 期 :

DATE

2024.02.29

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 2024.2.29	jerry	25	LSY	jerry

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



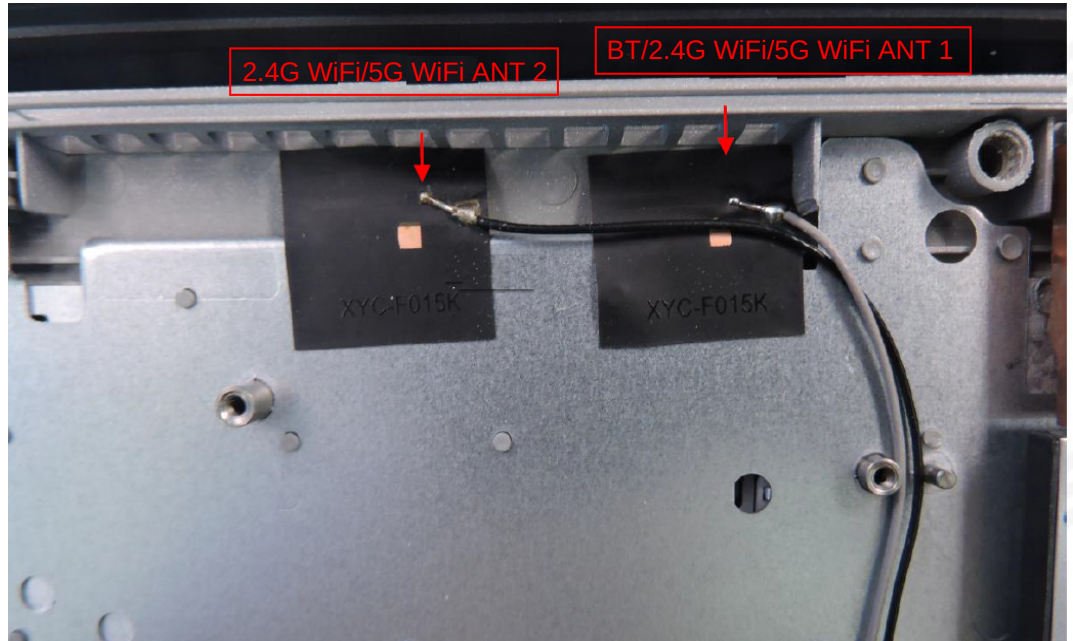
DONGGUAN SLEing INTEL-TECH CO., LTD

Test Reports

Electrical Properties	
Frequency	2400-2500/5150-5850 MHz(带机测试)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 2.1
Return Loss	-9dB Max
Radiation	Omni-directional
Gain (Peak)	2.4G: 2.86 dBi/5.8G: 4.76 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	$\Phi 0.81\text{mm}$ Black
Operating Temp	-40°C-85°C
Storage Temp.	-40°C-85°C

Antenna assembly diagram

Device



Antenna

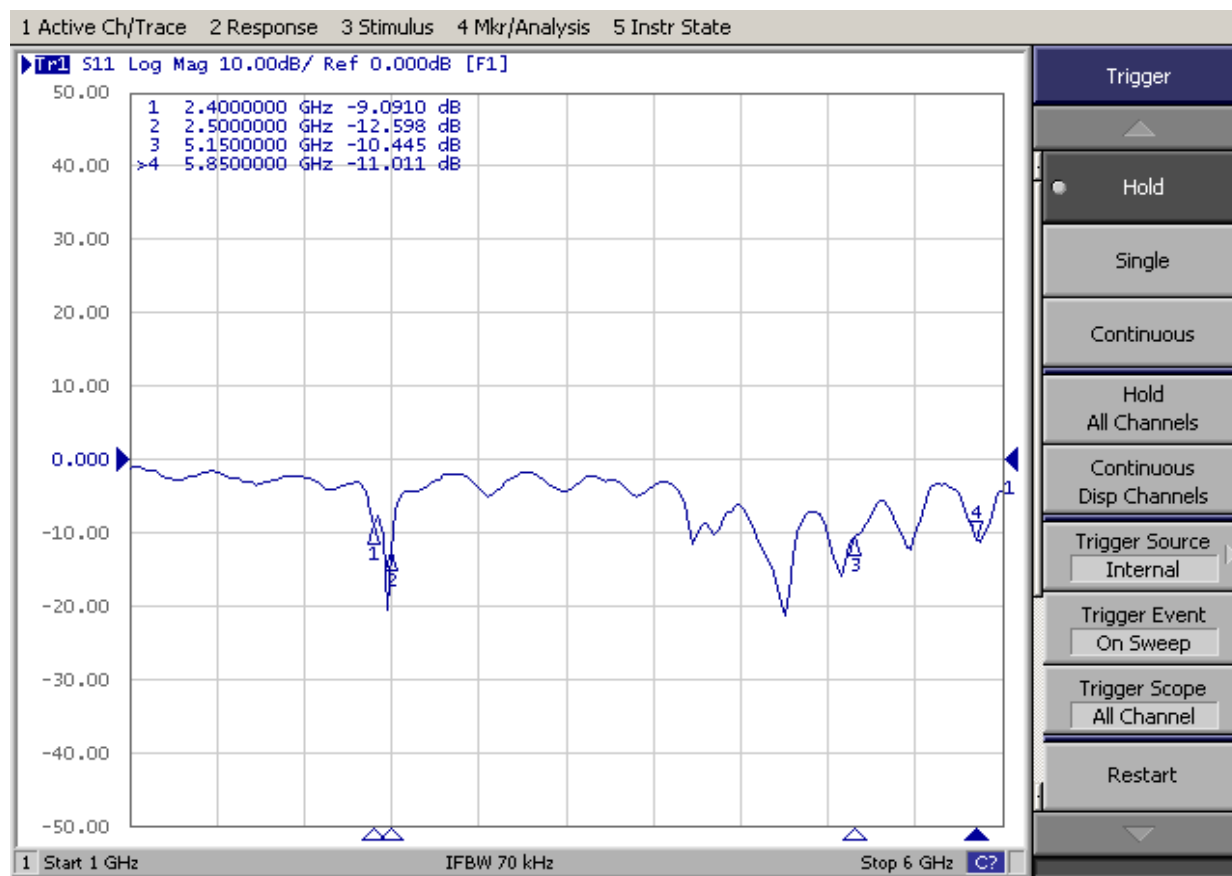


S Parameter Test

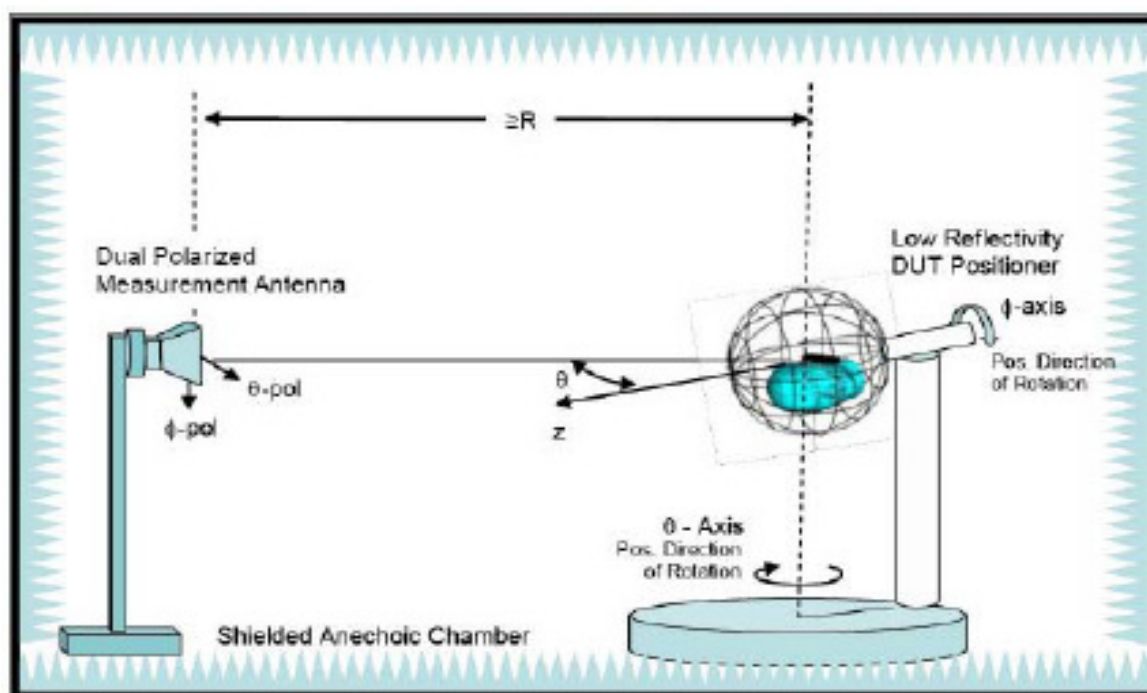
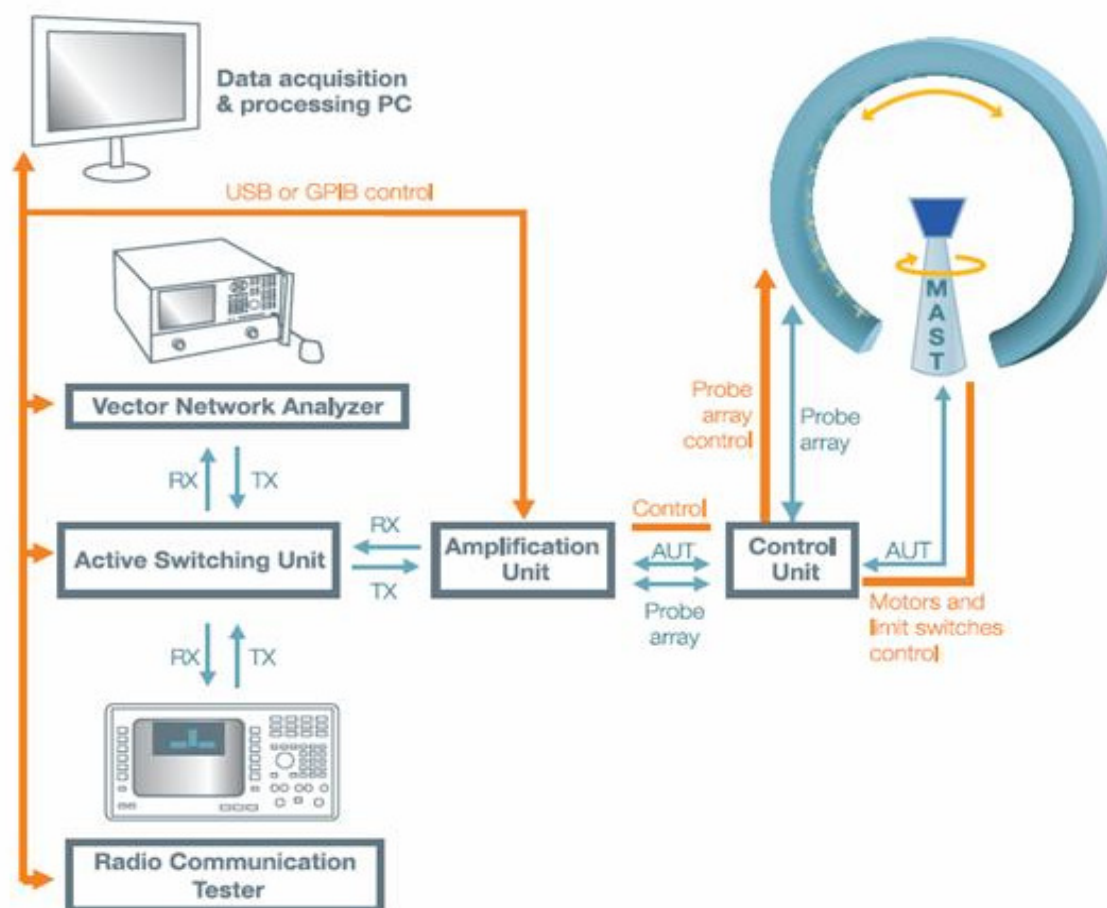
Agilent E5071C Network Analyzer



RF Antenna (Return Loss)



Test Setup



Test Efficiency

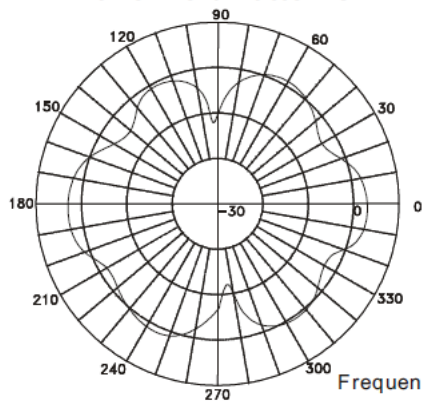
WiFi Antenna 1

WiFi Main天线数据

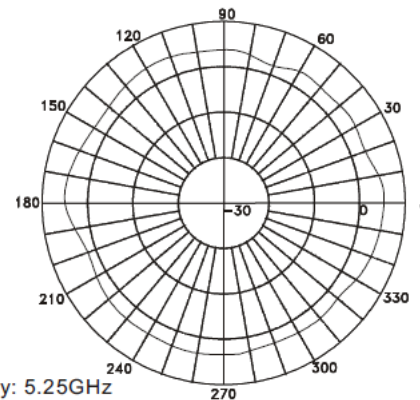
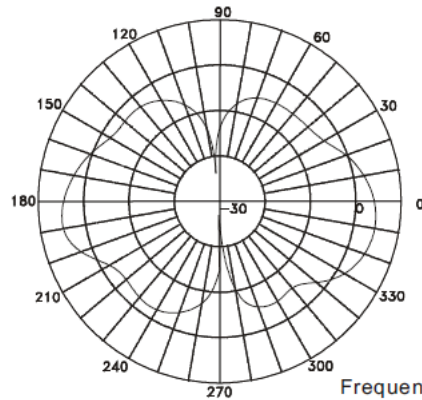
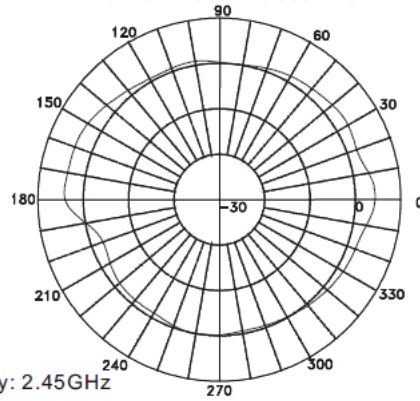
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-6.29	-5.72	-5.39	-5.15	-4.96	-4.45	-4.55	-4.44	-4.62	-4.69	-5.29
Gain (dBi)	1.08	2.06	2.26	2.06	1.62	2.27	2.52	2.81	2.79	2.86	2.54
Efficiency (%)	23.47	26.81	28.93	30.53	31.91	35.91	35.11	35.94	34.54	33.97	29.56

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
-5.20	-5.05	-5.24	-5.94	-5.13	-4.93	-5.21	-5.45	-5.69	-5.42	-6.14	-6.96	-6.91	-6.46	-5.88
3.58	3.70	2.74	1.44	2.62	2.98	2.77	1.81	2.70	1.97	1.89	1.03	2.76	3.88	4.76
30.22	31.23	29.91	25.47	30.72	32.12	30.11	28.53	26.95	28.68	24.34	20.15	20.39	22.60	25.81

E-Plane Field Patterns



H-Plane Field Patterns



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)	1	1	--	9.39	--
	2	6	--	9.22	--
	3	11	--	9.87	--
	4	--	--	--	--
	5	--	--	--	--
Phone Rx (Downlink Path)	1	1	--	--	-79.46
	2	6	--	--	-79.23
	3	11	--	--	-78.53
	4	--	--	--	--
	5	--	--	--	--

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)	1	36	--	10.53	--
	2	60	--	10.81	--
	3	149	--	11.01	--
	4	--	--	--	--
	5	--	--	--	--
Phone Rx (Downlink Path)	1	36	--	--	-69.78
	2	60	--	--	-68.78
	3	149	--	--	-69.88
	4	--	--	--	--
	5	--	--	--	--

11A有源数据