



东莞市森岭智能科技有限公司

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 :

SPECIFICATION

2400-2500/5150-5850MHz

单重:

weight

WIFI Antenna L=240mm(Ø1.13+MHF)

供 方 料 号 :

SUP PART NO

SLEingB240710240

日 期 :

DATE

2023.05.05



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 2023.5.5	Jerry	Jackey	LSY	Jerry

客 户 核 准 :

CUS APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED

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DONGGUAN SLEing INTEL-TECH CO., LTD

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正本由承办单位保存

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电性测试报告

Test Reports

Electrical Properties	
Frequency	2400-2500/5150-5850 MHz(带机测试)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10dB Max
Radiation	Omni-directional
Gain (Peak)	2.4G: 4.45dBi/5G:4.91dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPC
Cable Type	$\Phi 1.13\text{mm}$ Dark Grey
Operating Temp	-40°C-85°C
Storage Temp.	-5°C-30°C



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天线组装图

Antenna assembly diagram

Antenna



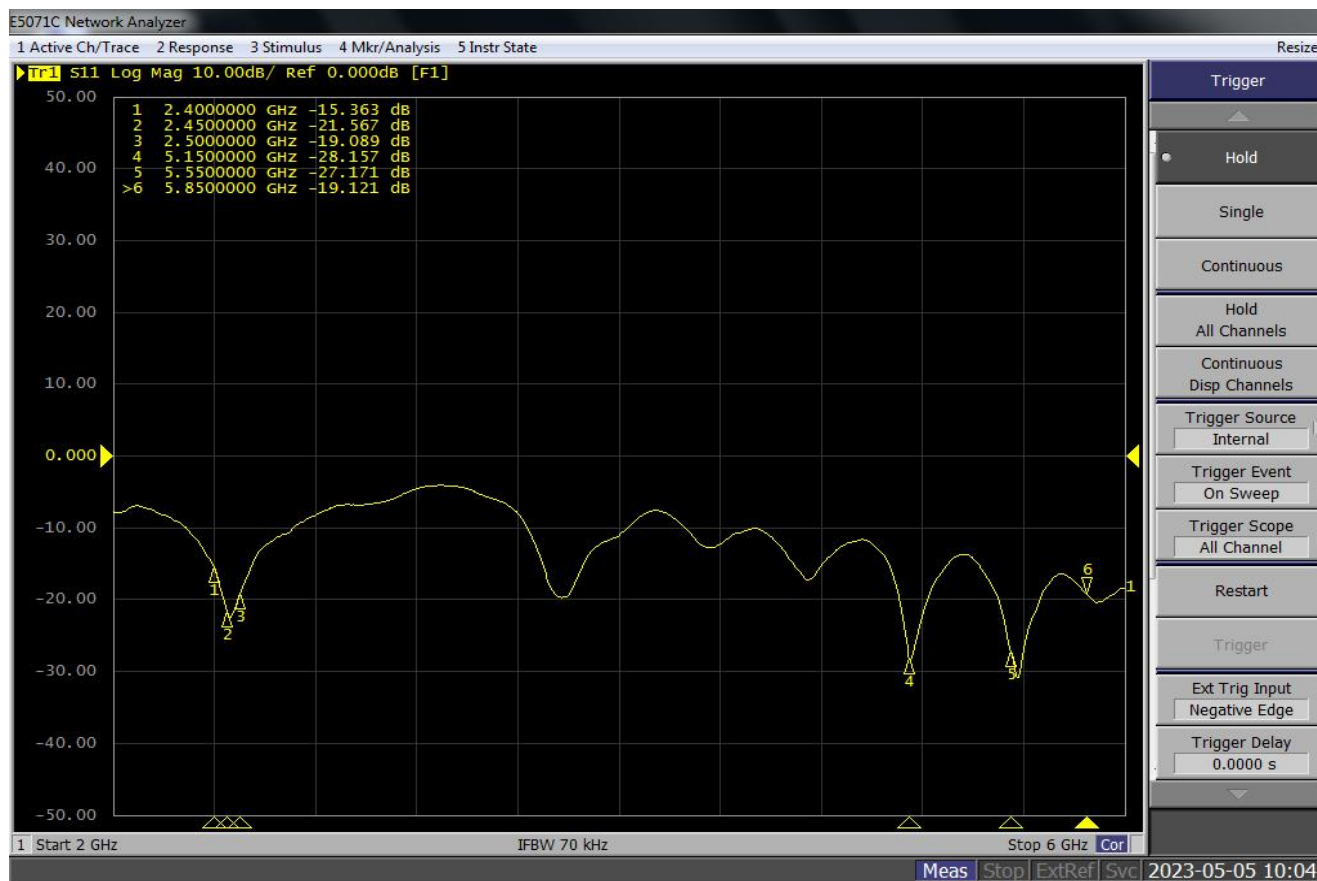
S参数测试

S Parameter Test

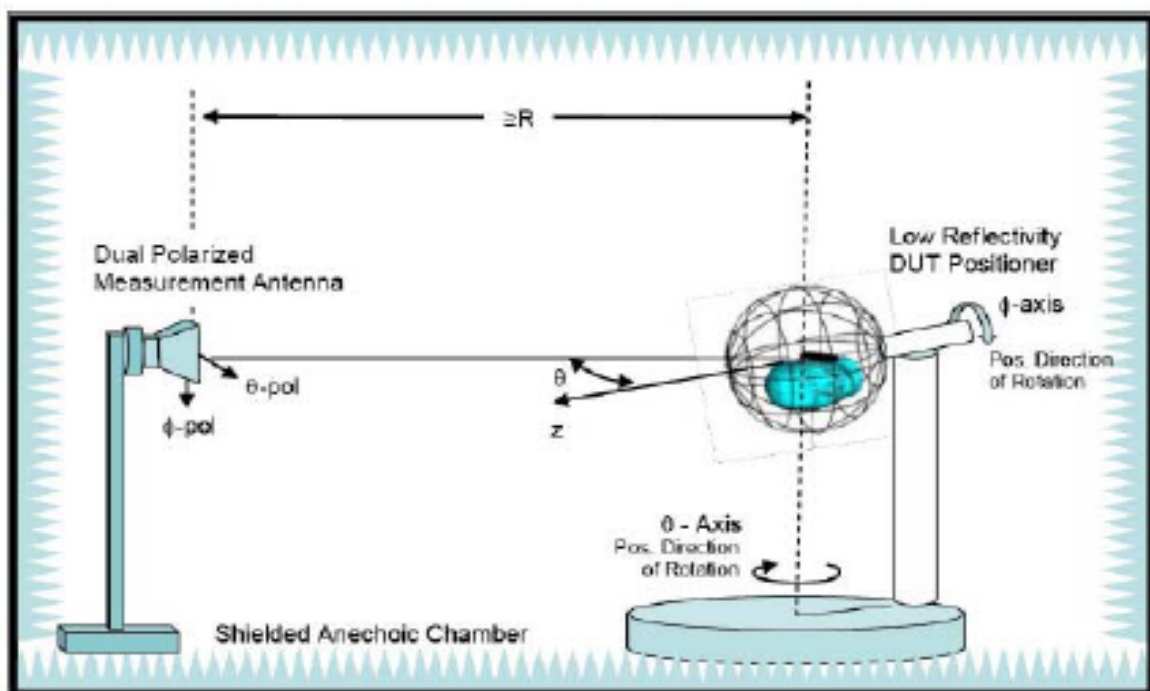
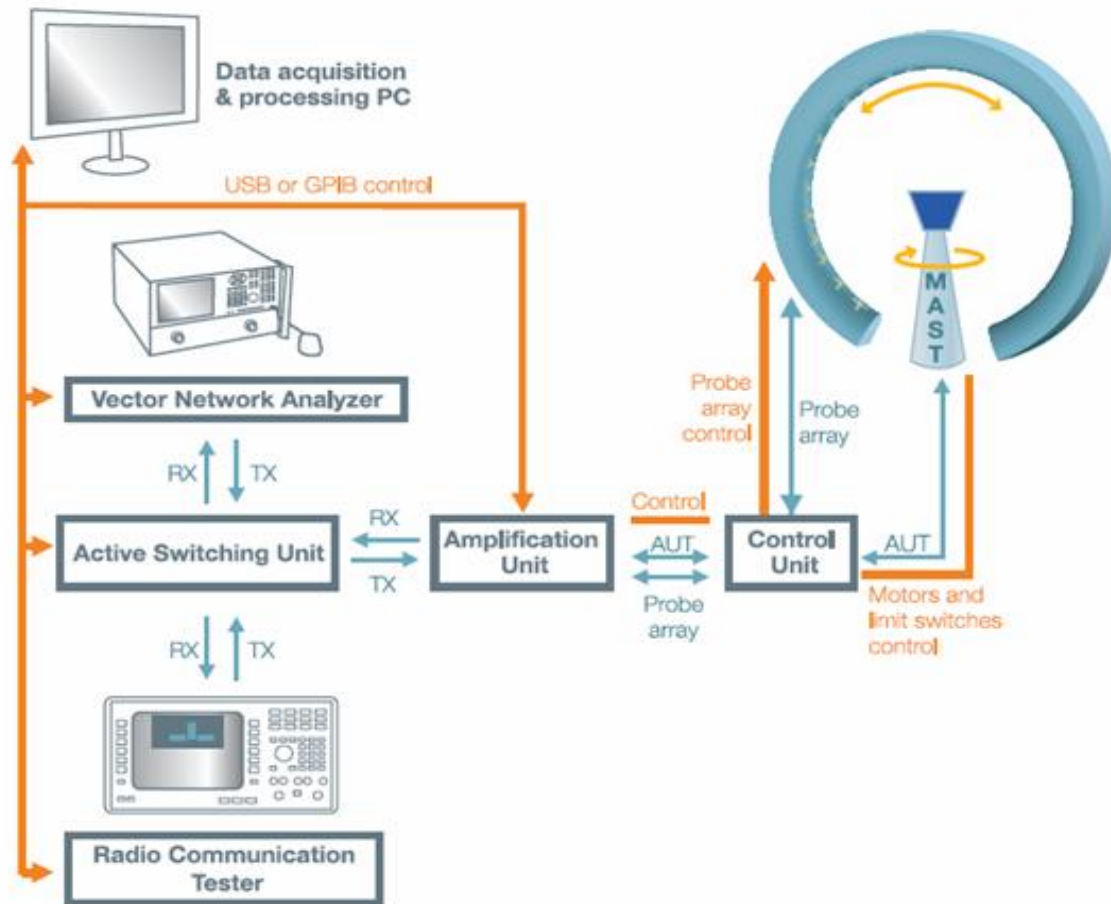
Agilent E5071C Network Analyzer



RF Antenna (Return Loss)



测试设备 Test Setup





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测试效率

Test Efficiency

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	4.45	4.36	4.38	4.32	4.23	4.16	4.26	4.19	4.20	4.28	4.28
Efficiency (%)	60.69	60.56	61.62	62.33	63.72	64.02	64.90	63.65	62.78	62.53	62.67

Frequency ID	12	13	14	15	16	17	18	19
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0
Gain (dBi)	3.76	3.62	3.88	4.43	4.31	4.91	4.38	4.72
Efficiency (%)	51.39	50.93	53.63	53.36	50.67	55.29	49.53	49.41

Frequency ID	20	21	22	23	24	25	26
Frequency (MHz)	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Gain (dBi)	4.90	4.31	3.66	3.09	2.95	3.04	2.94
Efficiency (%)	47.60	45.45	47.89	47.07	48.74	46.84	45.09



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测试功率灵敏度

Test TRP/ TIS

2.4G-WIFI

Channel No	TRP (dBm)	TIS (dBm)
1	12.40	-79.81
6	13.92	-80.32
11	14.49	-81.86

5 G-WIFI

Channel No	TRP (dBm)	TIS (dBm)
36	12.73	-68.83
60	10.95	-71.44
161	10.59	-68.63