



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

2.4-2.5/5.15-5.85GHz

WIFI Antenna(RG178+SMA)

单重:

weight

供 方 料 号 :

SUP PART NO

SLEingA100020108-F51

日 期 :

DATE

2024.05.22

厂 商 核 准 :

SUP APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED
周冰	周冰	2024.05.22 工程部 王超	Frankie

客 户 核 准 :

CUS APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED

东莞市森岭智能科技有限公司

DONGGUAN CITY SLEing INTEL-TECH CO.,LTD

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正本由承办单位保存



东莞市森岭智能科技有限公司

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变更记录

MODIFICATION RECORD SHEET

版本 (REV.)	更改日期 (Modification date)	更改内容描述 (Summary of modification content)	拟制 (Signature)	批准 (Approval)
X1	2024.05.22	初版发行 (First Issue)	胡赵海 (Jerry)	朱正锐 (Jongrei)

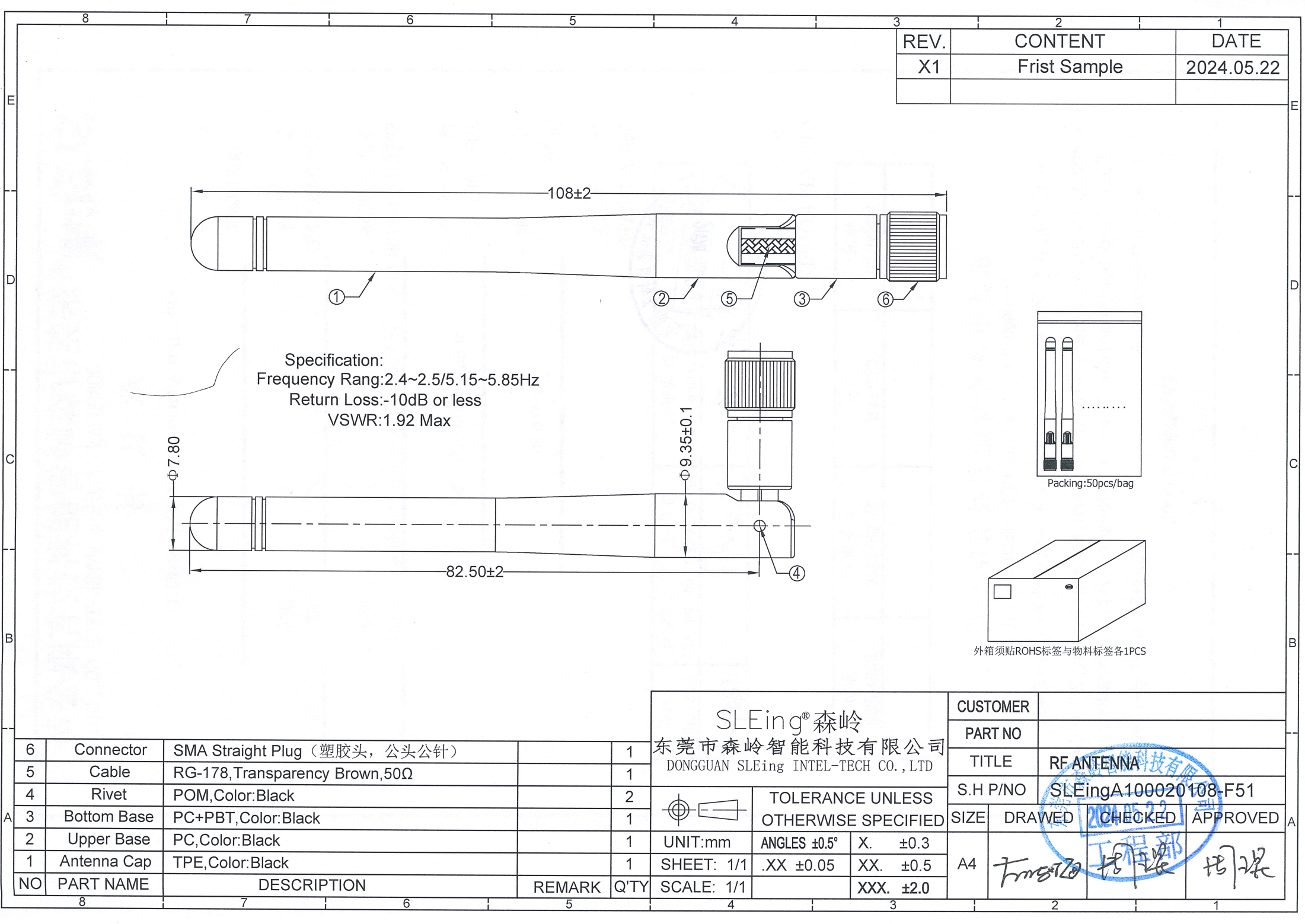


承认书项目表 (Spec Item)

序号(NO.)	项目(Project)	备注(Remark)	页码(Page)
1	承认书封面 (Spec Cover)		1
2	变更记录 (MODIFICATION RECORD SHEET)		2
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Give clear indication of:

1. The contents of the acknowledgement shall be arranged in order according to the items in the check sheet.
2. The number of copies of the acceptance letter shall be printed according to the customer's requirements, and the SGS report shall be stamped with the engineering seal.
3. All materials shall be confirmed by the customer. Any material/process/changes that may affect product quality and environmental quality must be re-sent to the customer for confirmation before import.
4. SGS report is valid for one year.
5. According to the contents attached to the actual acknowledgement, check the check form: "Yes" is provided, "no" is provided according to customer requirements.



REV.	CONTENT	DATE
X1	Frist Sample	2024.05.22

SLEing® 森岭 东莞市森岭智能科技有限公司 DONGGUAN SLEing INTEL-TECH CO.,LTD	CUSTOMER			
	PART NO			
	TITLE		RF ANTENNA	
	S.H P/NO		SLEingA100020108-F51	
6	Connector	SMA Straight Plug (塑胶头, 公头公针)		1
5	Cable	RG-178,Transparency Brown,50Ω		1
4	Rivet	POM,Color:Black		2
3	Bottom Base	PC+PBT,Color:Black		1
2	Upper Base	PC,Color:Black		1
1	Antenna Cap	TPE,Color:Black		1
NO	PART NAME	DESCRIPTION	REMARK	Q'TY
TOLERANCE UNLESS OTHERWISE SPECIFIED				
		UNIT:mm	ANGLES ±0.5°	X. ±0.3
		SHEET: 1/1	.XX ±0.05	XX. ±0.5
		SCALE: 1/1	XXX. ±2.0	
A4		DRAWN	CHECKED	APPROVED



东莞市森岭智能科技有限公司

DONGGUAN SLEing INTEL-TECH CO., LTD

电性测试报告

Test Reports

Electrical Properties	
Frequency	2.4-2.5/5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	≤1.92
Return Loss	-10dB Max
Radiation	Omni-directional
Gain (Peak)	2.4G:1.91 dBi/ 5.8G:1.94 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	TPE/PC+PBT
Cable Type	RG178
Operating Temp	-40℃-75℃
Storage Temp.	-40℃-75℃

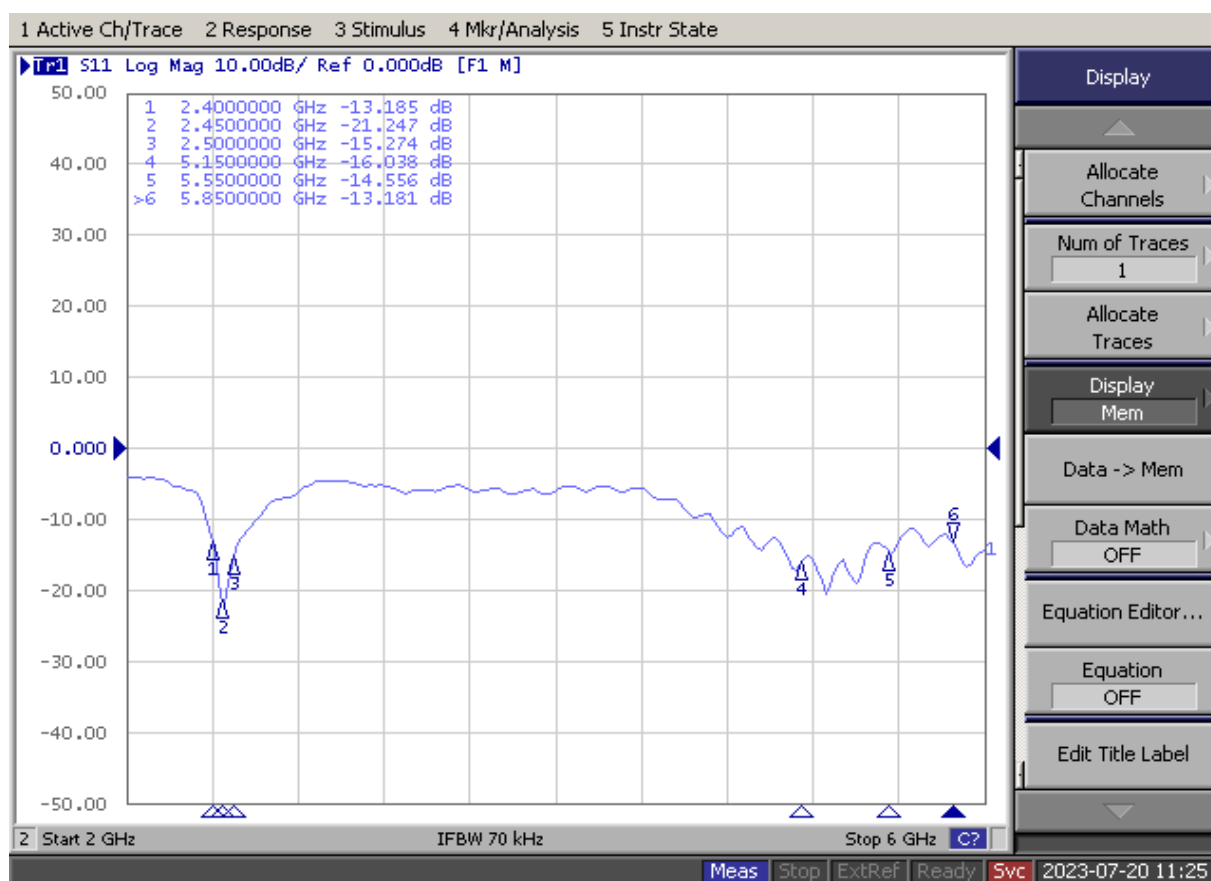
S参数测试

S Parameter Test

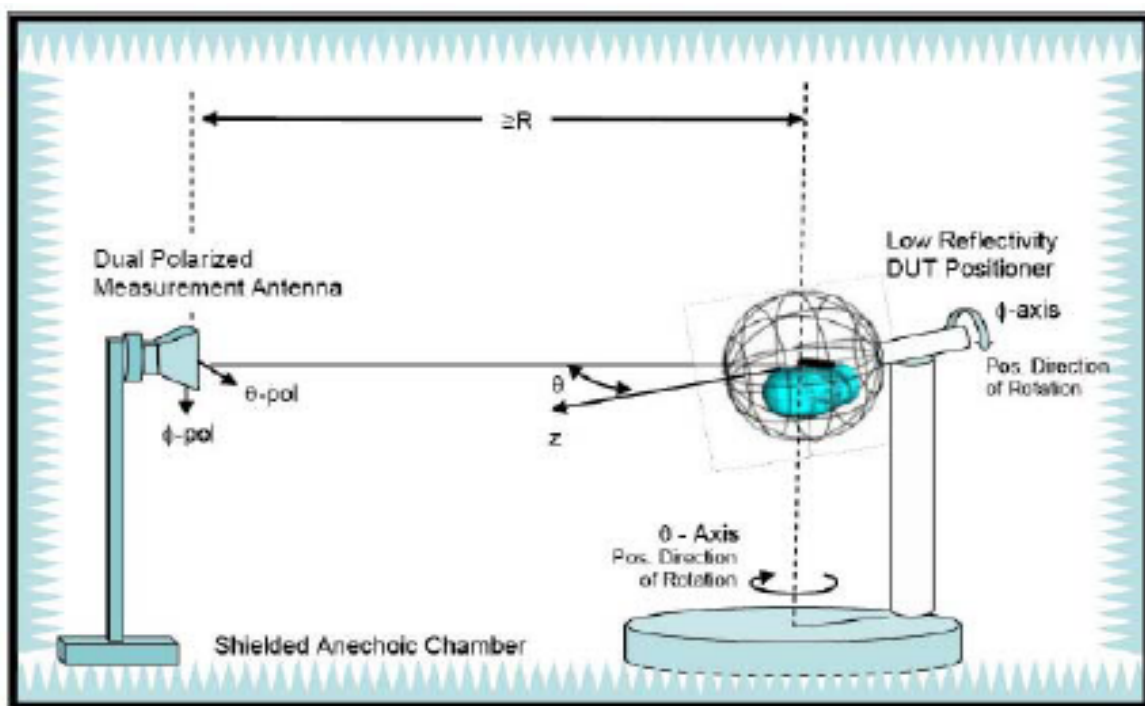
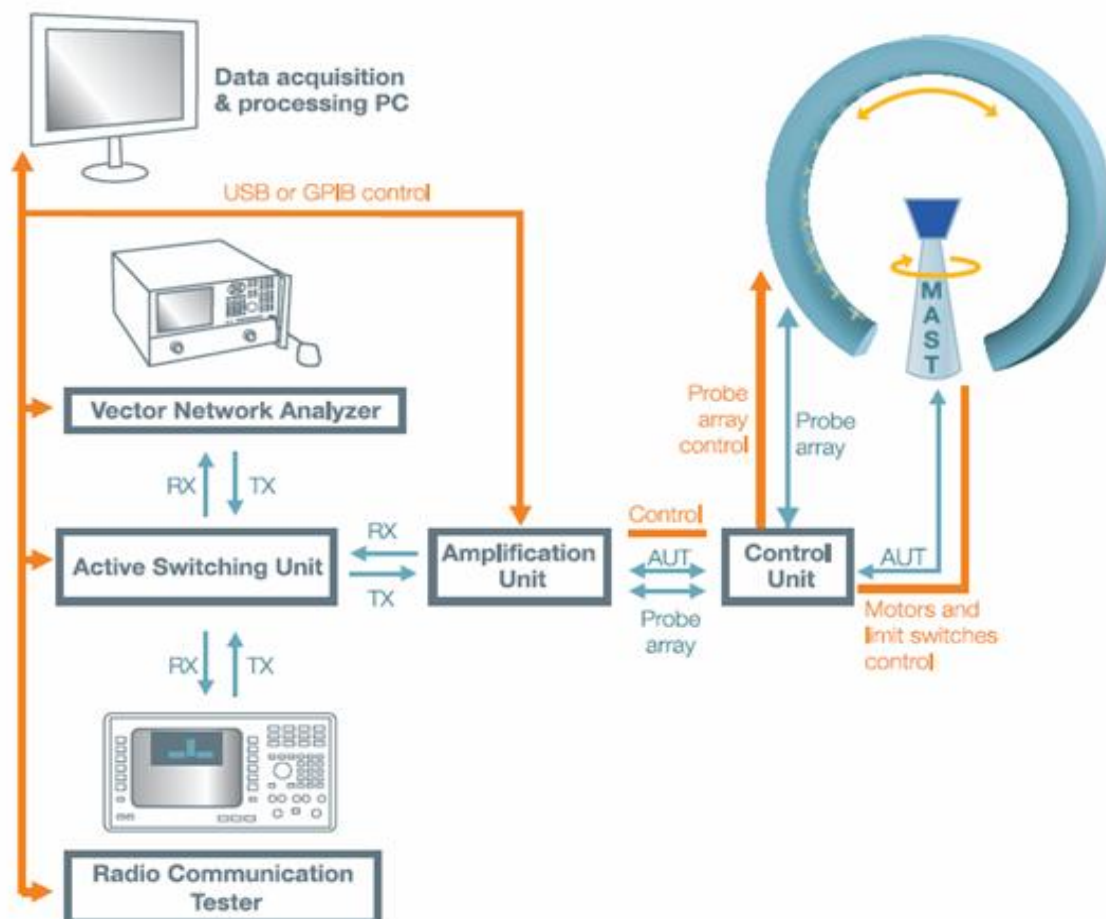
Agilent E5071C Network Analyzer



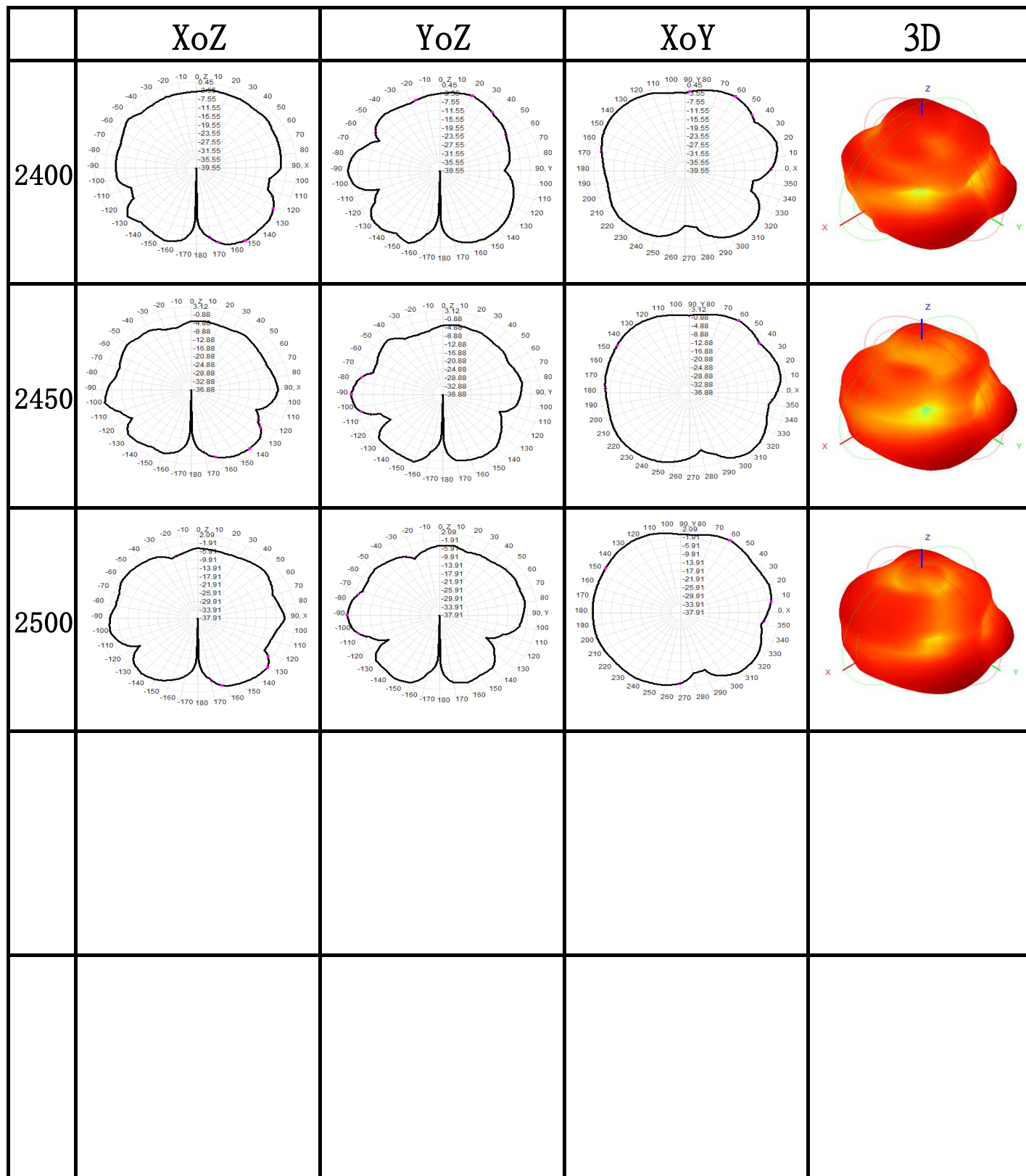
RF Antenna(Return Loss)



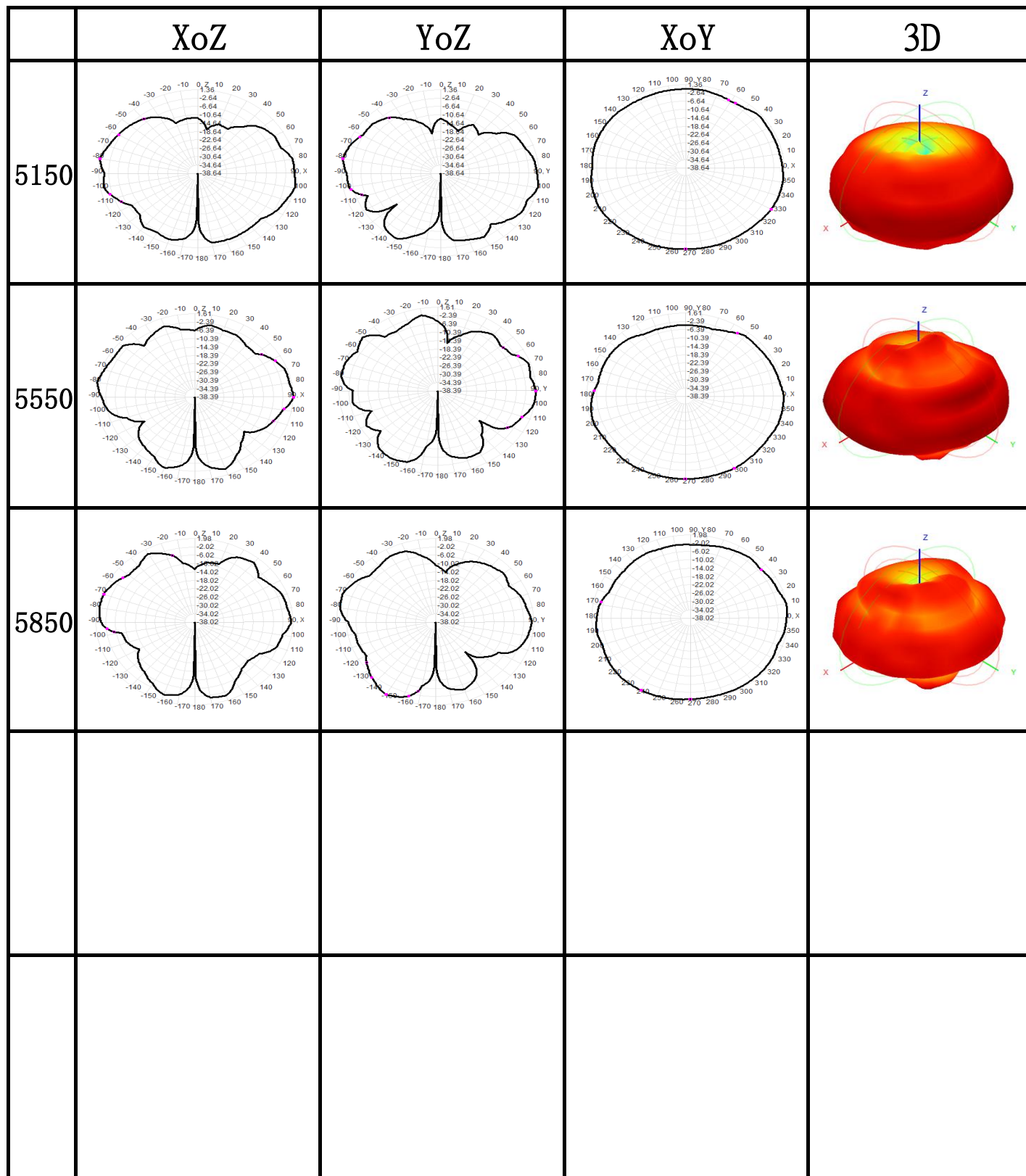
测试设备 Test Setup



方向图 Patten



方向图 Patten



测试效率 Test Efficiency

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
Gain (dBi)	0.70	1.20	1.91	1.37	1.78	1.12	1.86	1.75	1.50	1.06	1.09
Efficiency (%)	32.71	37.23	41.25	43.80	47.07	48.36	47.74	46.84	45.84	43.64	45.39

Frequency ID	12	13	14	15	16	17	18	19
Frequency (MHz)	5150	5200	5250	5300	5350	5400	5450	5500
Gain (dBi)	1.03	1.80	1.14	1.26	1.94	1.44	1.47	1.04
Efficiency (%)	57.74	55.77	62.49	62.32	54.88	64.28	59.84	60.97

Frequency ID	20	21	22	23	24	25	26
Frequency (MHz)	5550	5600	5650	5700	5750	5800	5850
Gain (dBi)	1.23	1.16	1.08	1.77	1.26	1.56	1.88
Efficiency (%)	58.95	55.25	59.48	57.32	58.58	60.27	59.81