SLEing® 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 : 2.4~2.5GHz
SPECIFICATION WIFI Antenna L=45mm(Ø1.13+MHF)

单重:
weight

供 方 料 号 : SLEingB247140045
SUP PART NO

日 期 : 2024.07.18
DATE

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

东莞市森岭智能科技有限公司 2024.07.15 工程部

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
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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

DONGGUAN SLEing INTEL-TECH CO.,LTD

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	2024.07.18	初版发行（First Issue）	胡赵海（Jerry）	朱正锐(Jongrei)

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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
3	承认书项目表（Spec Item ）		3
4	工程成品图（Drawing）		4
5	电性测试报告（Test Reports ）		5
6	天线组装图（Antenna assembly diagram）		6
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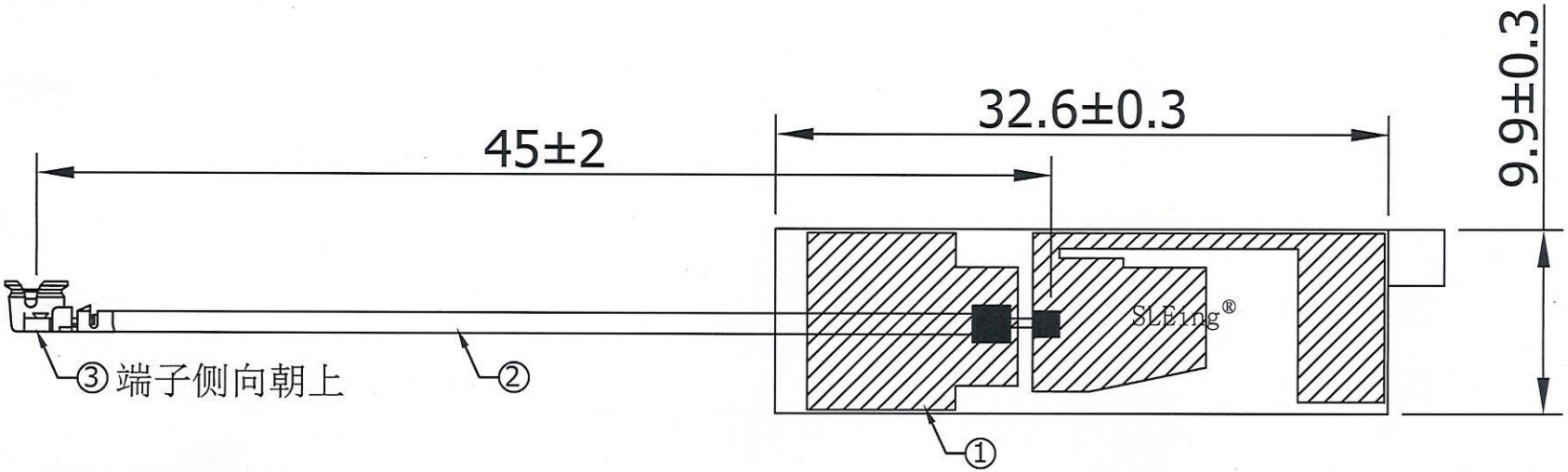
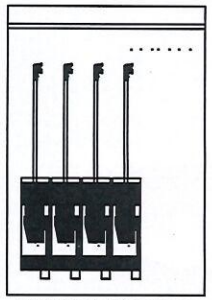
Give clear indication of:
1. The contents of the acknowledgement shall be arranged in order according to the items in the check sheet.
2. The number of copies of the acceptance letter shall be printed according to the customer's requirements, and the SGS report shall be stamped with the engineering seal.
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.

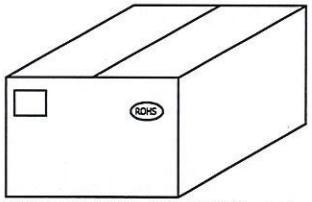
REV.	CONTENT	DATE
X1	First Sample	2024.07.18



Specification:
Frequency Rang:2.4~2.5GHz(带机测试)
Return Loss:-10dB or less
VSWR:1.92 Max



Packing:100pcs/bag



外箱须贴ROHS标签与物料标签各1PCS

NO	PART NAME	DESCRIPTION	REMARK	Q'TY
3	Connector	MHF Plug for Φ1.13 Cable	第一代端子	1
2	Cable	Φ1.13mm Coaxial Cable Dark Grey,50Ω		1
1	PCB	FR4,L32.6*W9.9*T0.4mm,Color:Black	300LSE Adhesive	1

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UNIT:mm	TOLERANCE UNLESS OTHERWISE SPECIFIED	
SHEET: 1/1	ANGLES ±0.5°	X. ±0.3
SCALE: 1/1	0.XX ±0.05	XX. ±0.5
		XXX. ±2.0

CUSTOMER	
PART NO	
TITLE	WIFI ANTENNA
S.L P/NO	SLEingB247140045

SIZE	DRAWED	CHECKED	APPROVED
A4			

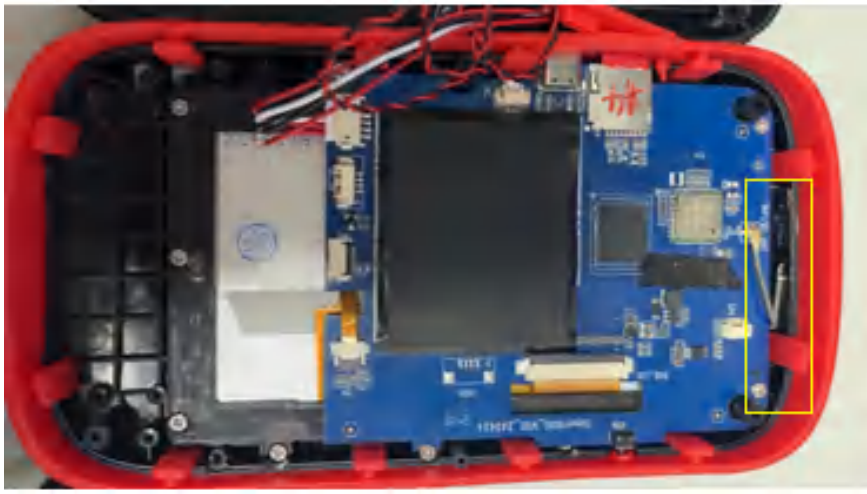
电性测试报告

Test Reports

Electrical Properties	
Frequency	2.4~2.5GHz(带机测试)
Impedance	50 0hm Nominal
V.S.W.R	≤1.92
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	5.67dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	Φ1.13mm Dark Grey
Operating Temp.	-40~+85 °C
Storage Temp.	-5~+30 °C

天线组装图

Antenna Profile

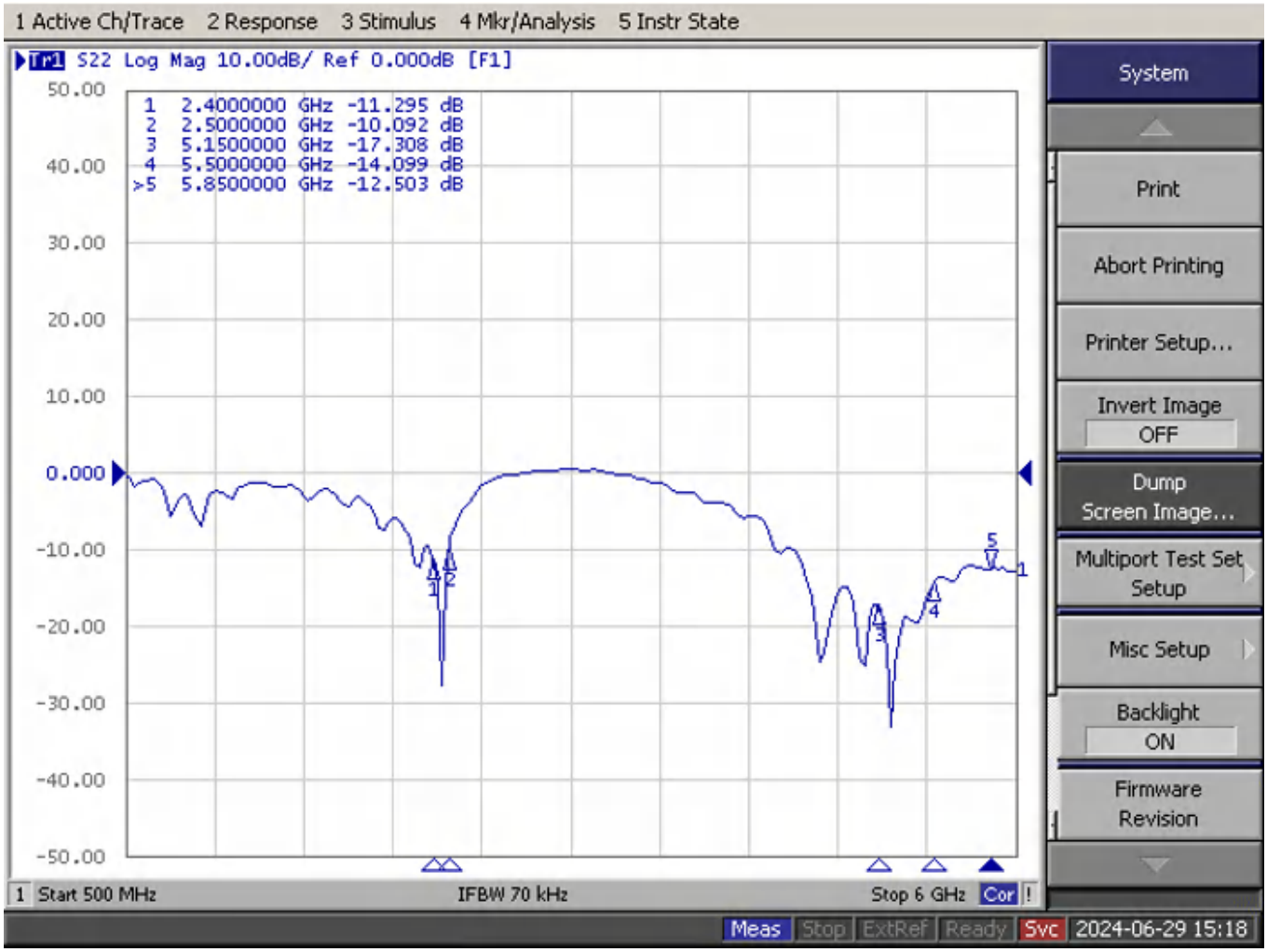
Device	
Antenna	

S 参数测试

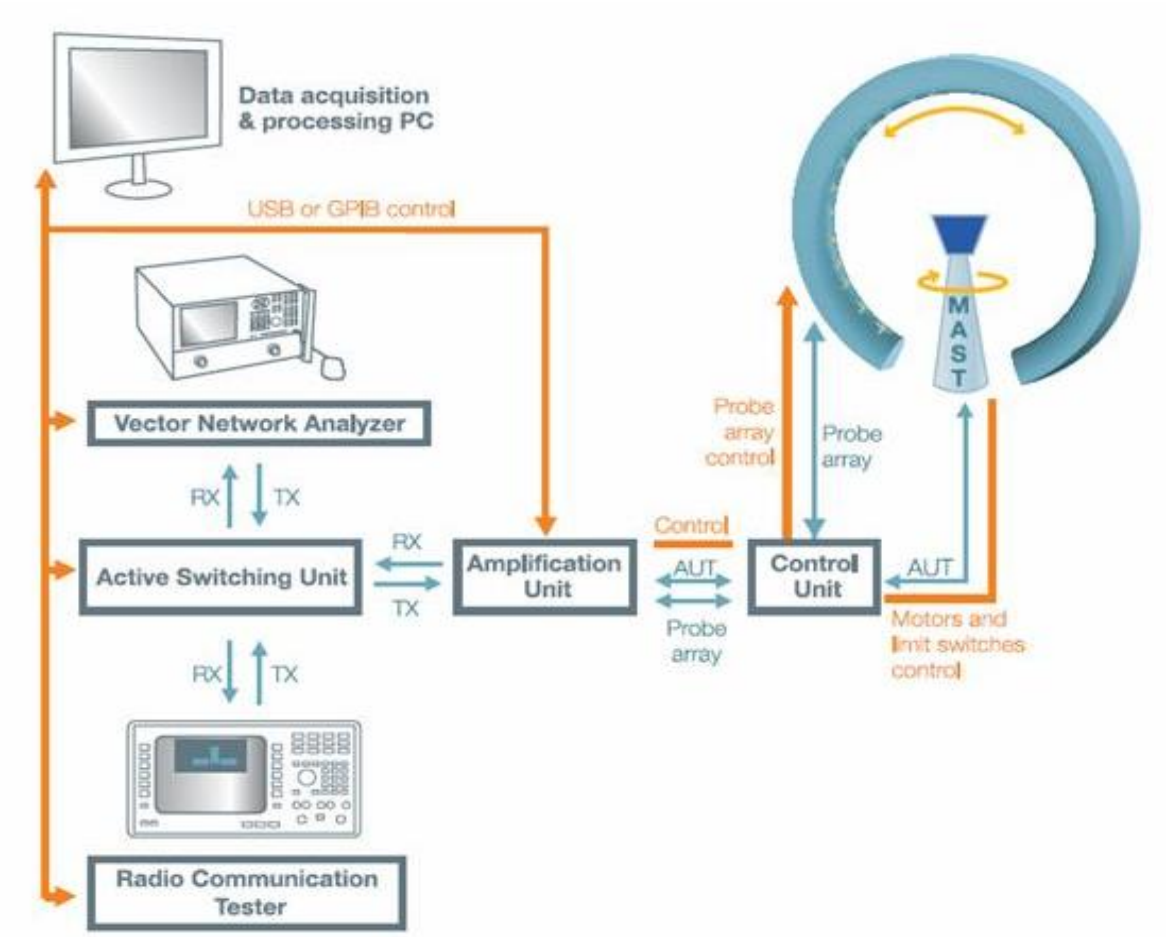
S ParameterTest

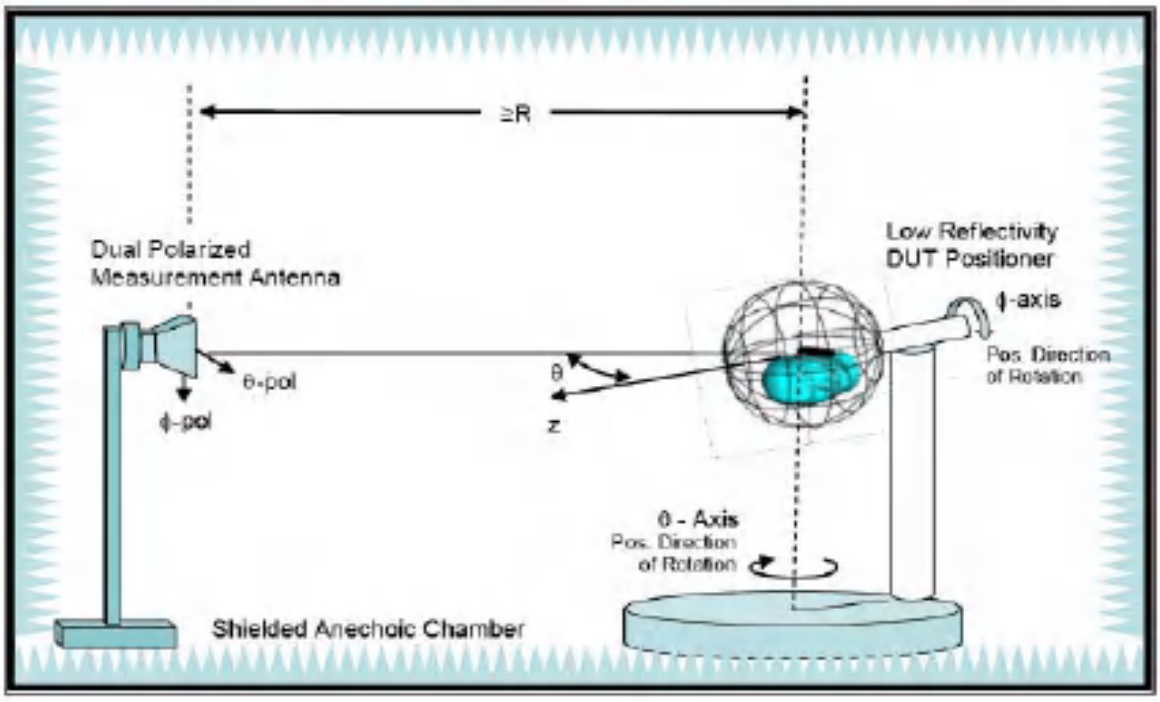
Agilent E5071C Network Analyzer	

WIFI Antenna (NO.1)



测试设备
Test Setup





测试效率

Test Efficency

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)	4.64	5.02	5.49	5.37	5.67	5.49	5.43	5.29	5.13	4.96	4.98
Efficiency (%)	67.51	72.47	73.19	73.52	76.00	75.00	74.34	72.67	71.75	68.35	69.78

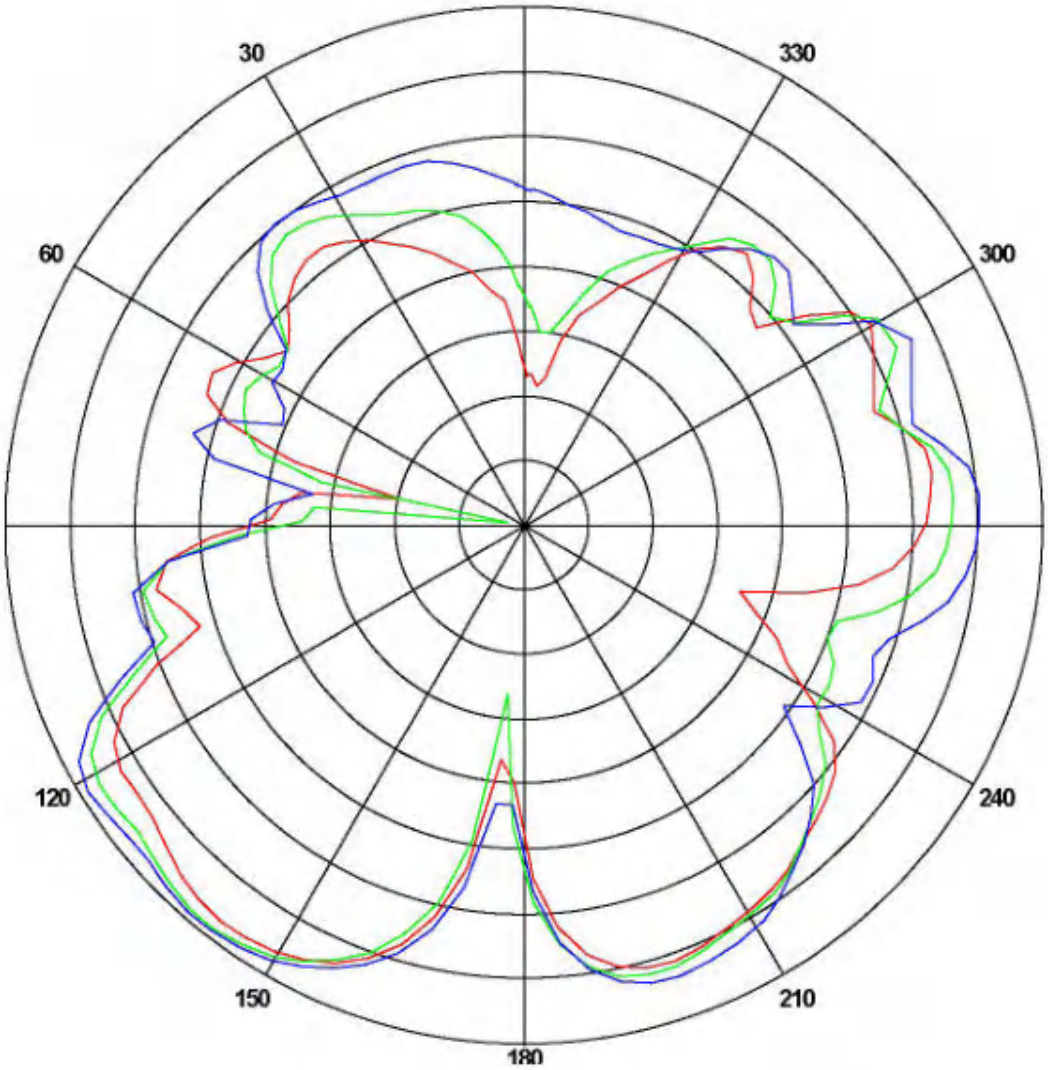
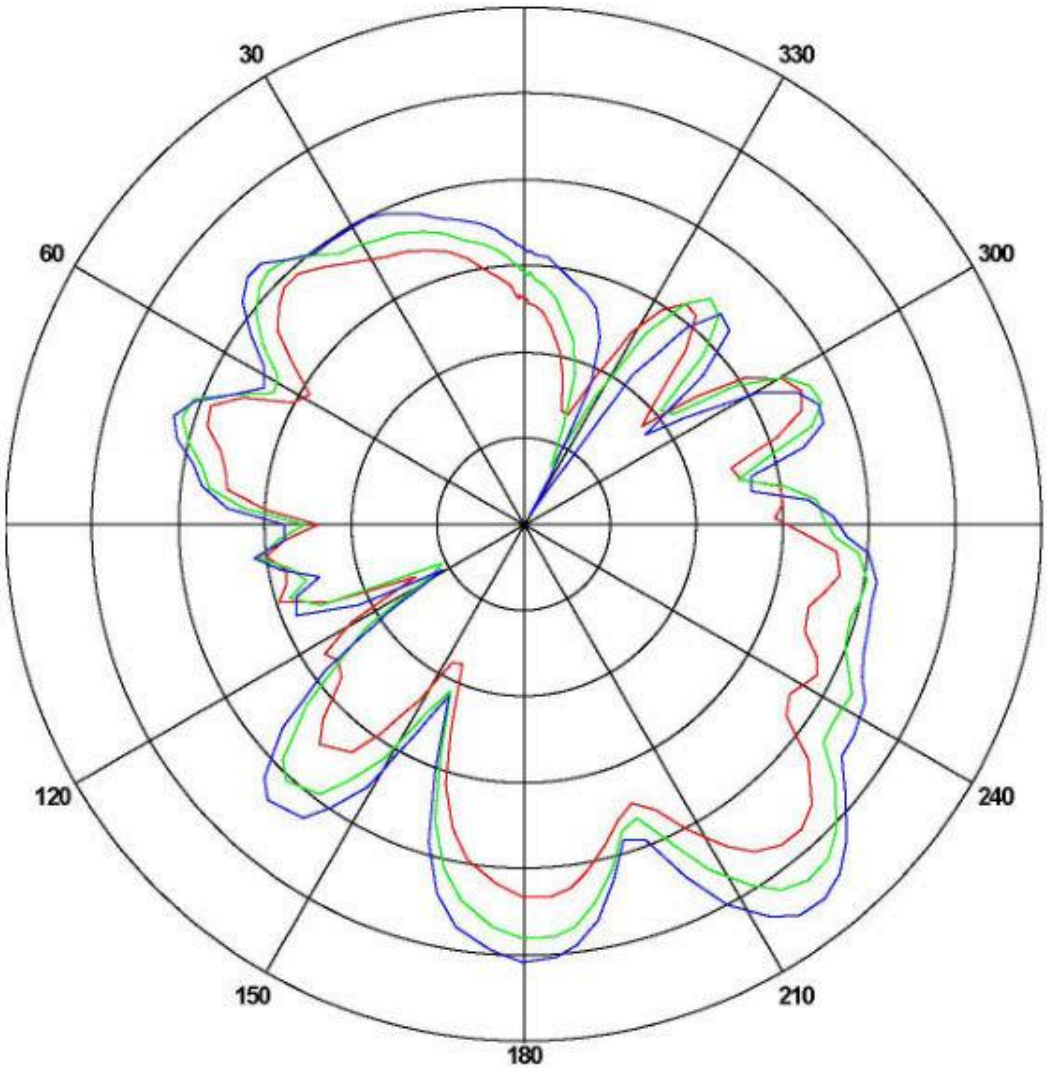
WLAN Antenna Performance Table

WLAN Whole Band TRP (dBm) 14.64

WLAN Whole Band TIS (dBm) -72.79

		Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)
Phone Tx (Uplink Path)	1	1	--	15.79	--
	2	6	--	14.81	--
	3	11	--	13.33	--
Phone Rx (Downlink Path)	1	1	--	--	-75.30
	2	6	--	--	-73.00
	3	11	--	--	-70.06

Horizontal: 2400 MHz 2450 MHz 2500 MHz



Vertical: 2400 MHz 2450 MHz 2500 MHz