



DK118 Antenna Test Report

Antenna Design And Test Report

Date: 2026.6.29

CONTENTS

01

Project Overview

02

Test Environment

03

Matching Circuit

04

Environmental
Treatment

05

Passive Report

06

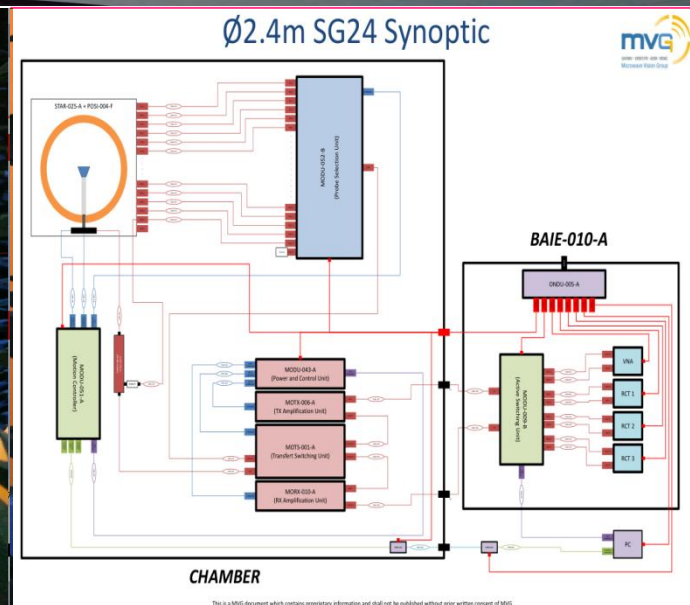
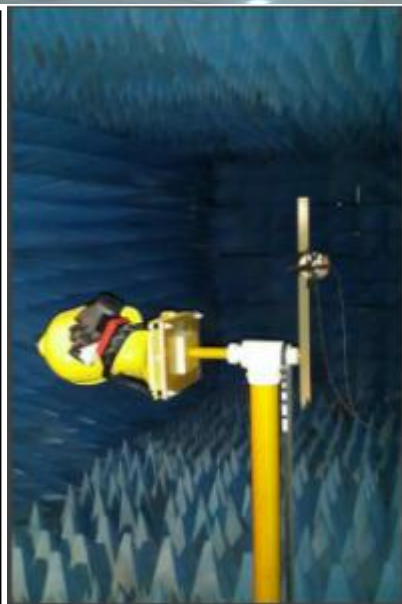
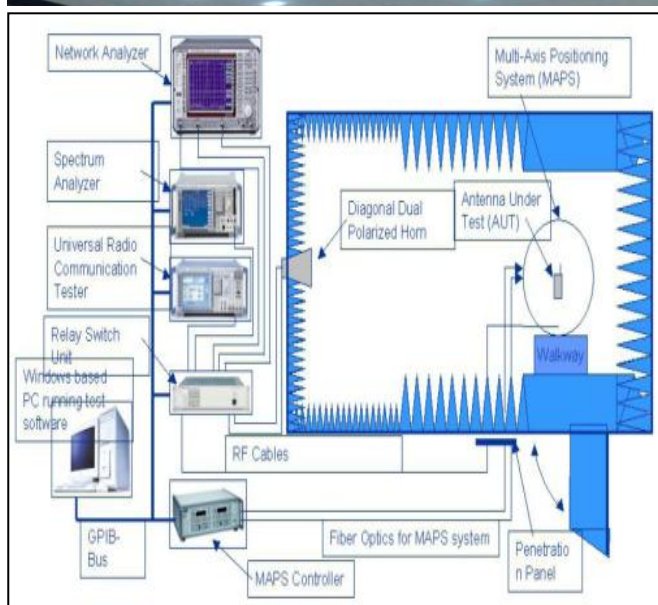
Active Report

07

Conclusion



Test Environment



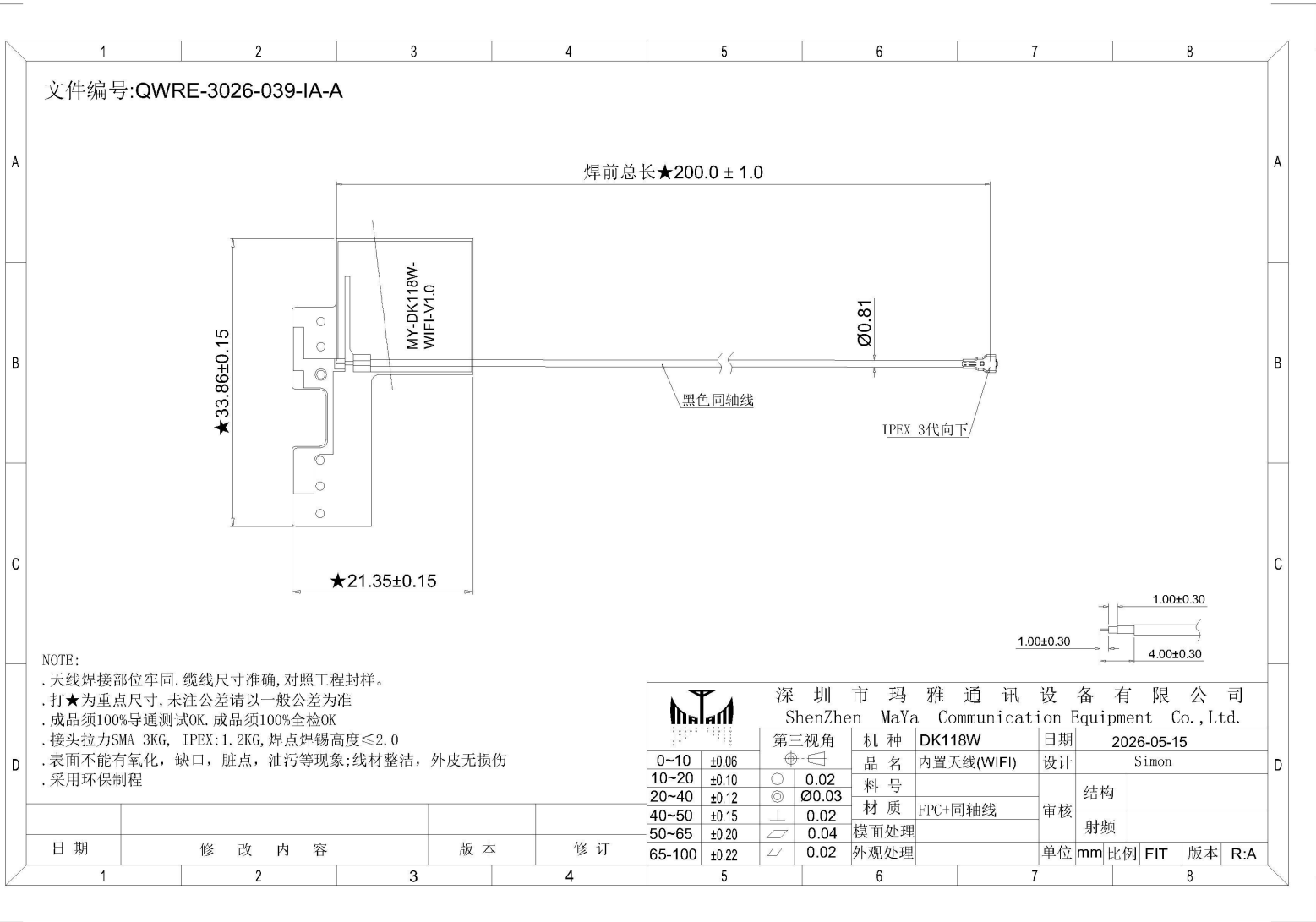
Darkroom system : MVG SG24LT (Satmio)



main antenna design spectrum	WIFI	Report version	Date	Content
Type of antenna		V4.0	2026.06.27	PVT Trial Production Unit Antenna Test Report
Deputy antenna design spectrum				
Type of antenna				
Frequency diversity antenna				
Type of antenna				

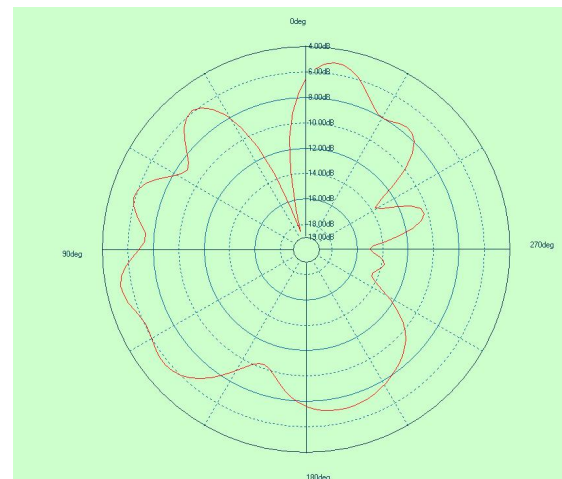
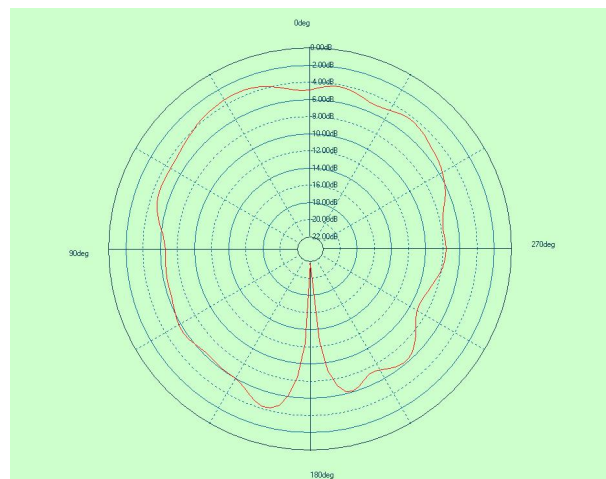
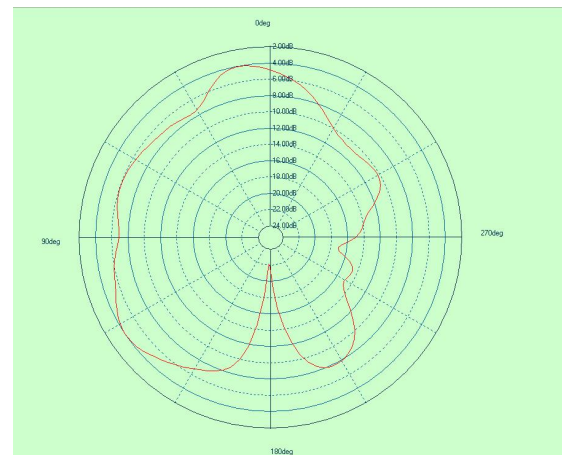
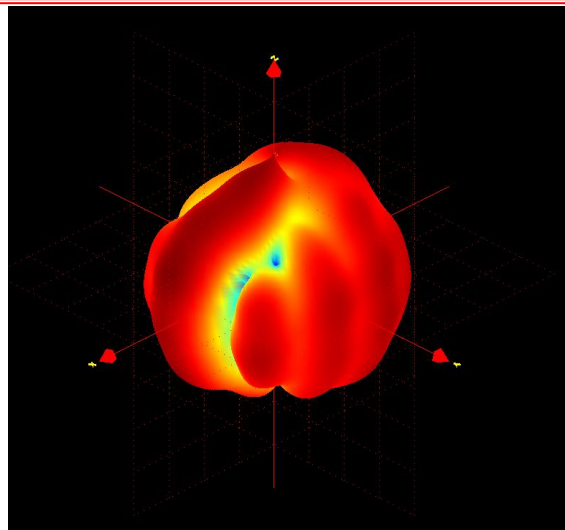


Antenna Size Drawing



2.4G Passive pattern

Gain
2.4G: -1.41 dbi

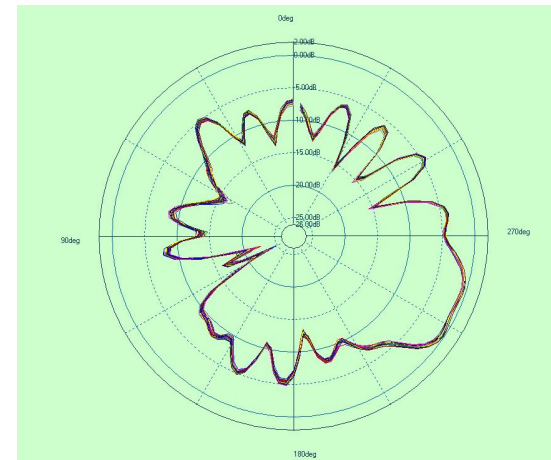
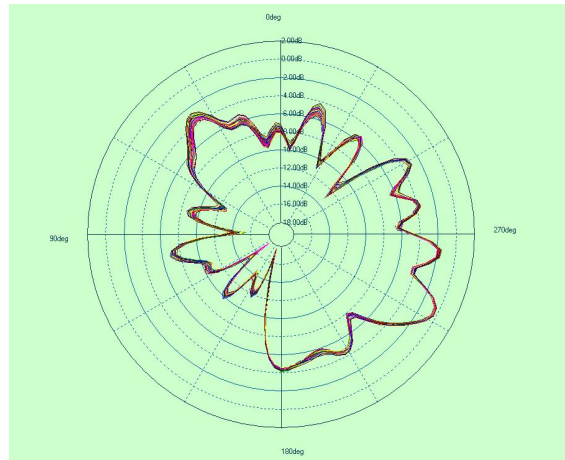
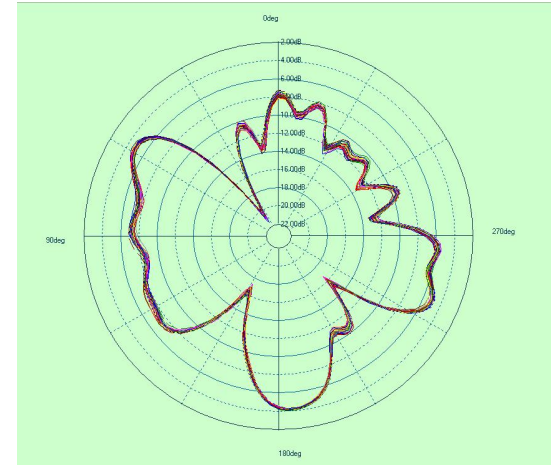
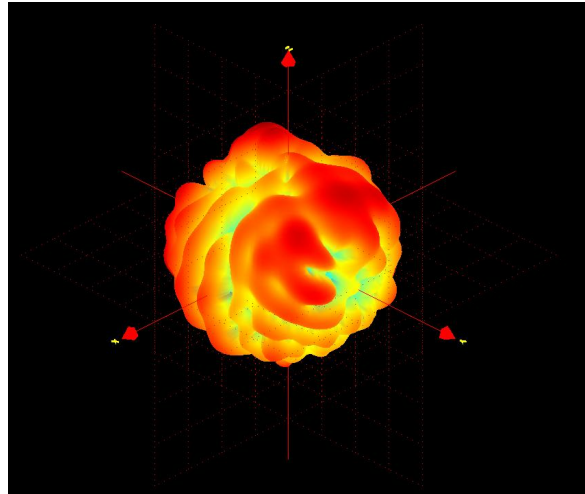


Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)

5G Passive pattern

Gain
5.8G: 1.91 dbi

Gain
5.2G: 1.91 dbi



Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)

Active Report



Standard	BAND	WiFi_11b			WiFi_11G		
WIFI	CHANNAL	L	M	H	L	M	H
	TRP	14.5	14.6	14.4	12.3	12.2	12.4
	TIS	--	--	-85.4	--	--	-73.2
	TIS(Front Cam)			-81.3			-72.3
	TIS(Rear Cam)			-80.6			-68.3
Standard	BAND	WiFi_11N					
WIFI	CHANNAL	L	M	H			
	TRP	12.4	12.3	13.4			
	TIS	--	--	-69.3			
	TIS(Front Cam)			-67.3			
	TIS(Rear Cam)			-65.6			



Standard	BAND	WiFi_11A			WiFi_11ac		
WIFI	CHANNAL	L	M	H	L	M	H
	TRP	12.4	11.2	10.5	12.1	11.3	10.6
	TIS	--	--	-70.8	--	--	-65.2
	TIS(Front Cam)			-70.3			-64.3
	TIS(Rear Cam)			-70.1			-64.1

Active Report

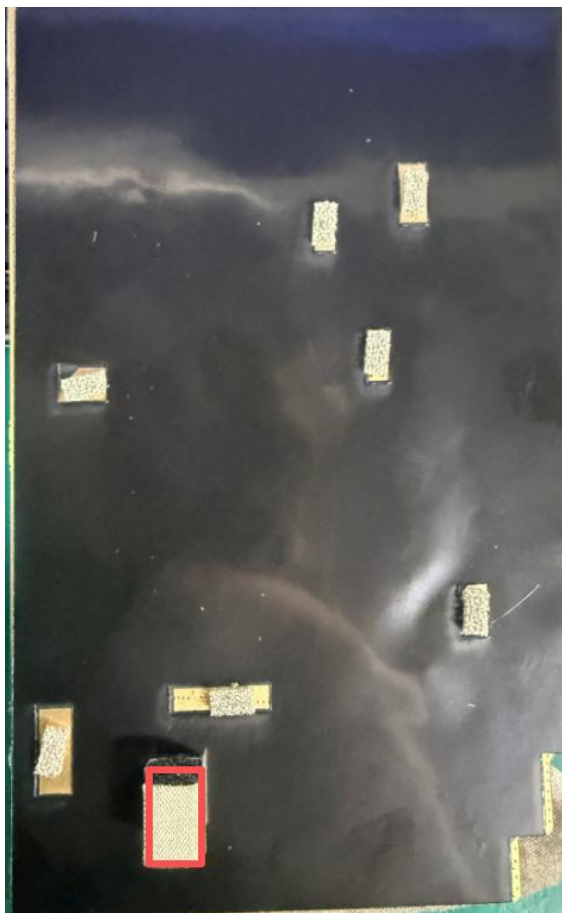


Standard	BAND	WiFi_11b			WiFi_11G		
WIFI	CHANNAL	L	M	H	L	M	H
	TRP	14.1	14.3	14.3	12.5	12.6	12.2
	TIS	--	--	-84.2	--	--	-72.3
	TIS(Front Cam)			-81.3			-70.4
	TIS(Rear Cam)			-79.3			-67.2
Standard	BAND	WiFi_11N					
WIFI	CHANNAL	L	M	H			
	TRP	12.5	12.6	13.6			
	TIS	--	--	-68.7			
	TIS(Front Cam)			-66.5			
	TIS(Rear Cam)			-64.3			



Standard	BAND	WiFi_11A			WiFi_11ac		
WIFI	CHANNAL	L	M	H	L	M	H
	TRP	12.2	11.4	10.6	12.1	11.3	10.5
	TIS	--	--	-70.7	--	--	-64.6
	TIS(Front Cam)			-70.2			-64.2
	TIS(Rear Cam)			-69.8			-64.1

Environmental Conditioning



Add foam to the copper-exposed areas on the mainboard to achieve sufficient grounding of the mainboard; ensure full grounding especially at the red boxed positions.

Environmental Conditioning



Run conductive fabric from
mainboard to screen for grounding

ANT	antenna specification		
	Frequency	Pattern	Gain (dBi)
2.4 WIFI ANT	2400 MHz - 2483.5 MHz	FPC	-1.41
5G WIFI	5150 MHz - 5250 MHz	FPC	1.91
5G WIFI	5725 MHz - 5850 MHz	FPC	1.91
BT ANT	2400 MHz - 2483.5 MHz	FPC	-1.41

1. The above contents constitute the test report for PVT trial production units.
2. Antenna tests were conducted with the device unopened.
3. Please feel free to contact us by phone if you have any questions. Thank you.

THANK YOU



If you have any questions, please contact us
Daily service hours : Monday to Saturday 9:00-18:00
Switchboard Hotline : 0755-36615535 Fax: 0755-82916227
 website : www.mayaant.com

Confidentiality requirements

Shenzhen Maya communication equipment Co., Ltd. has owned the information provided by the proprietary technology and is not allowed to disclose it to any person or company without the prior written consent of Shenzhen Maya communication equipment Co., Ltd.