



DK127 Antenna Test Report

Date: 2026.06.04

Room 205, Block B, Building 1, Qilife AI Digital Valley, No. 8 Queshan Road, Longhua District, Shenzhen City

CONTENTS

01

Project Overview

02

Test Environment

03

Matching Circuit

04

Environmental
Treatment

05

Passive Report

06

Active Report

07

Conclusion





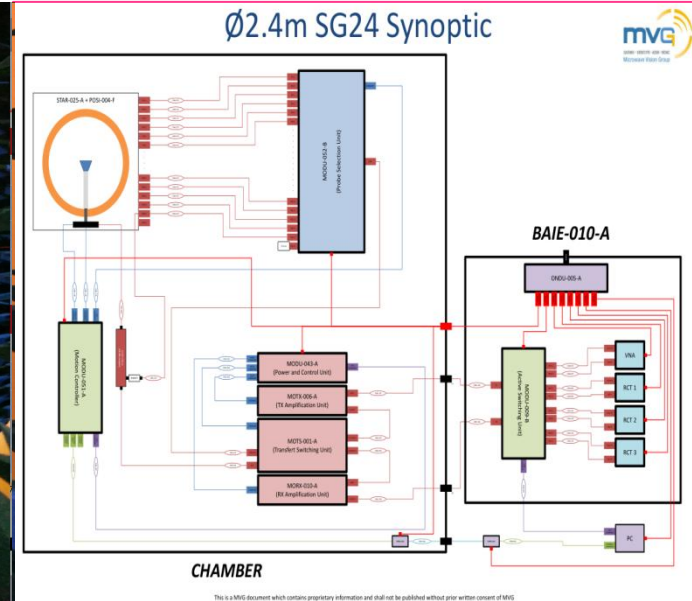
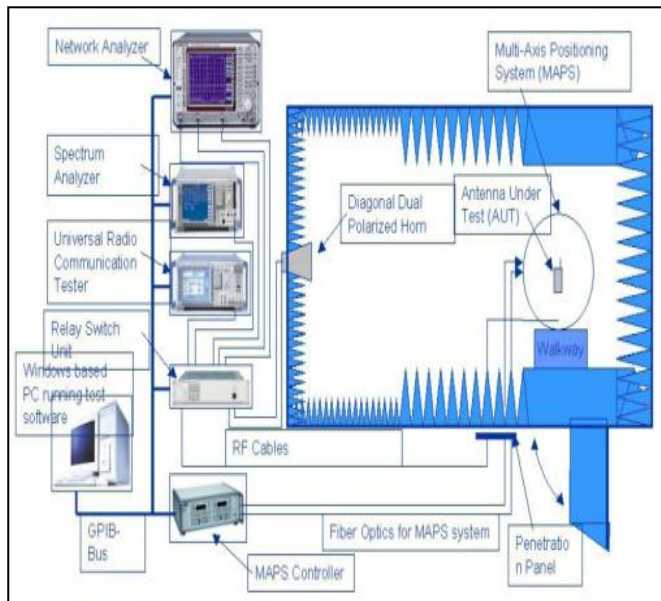
Project Overview



Main antenna design spectrum	WIFI:2.4G/5G
Type of antenna	PIFA

Report version	Date	Content
V1.0	2026.06.04	Antenna test report

Test Environment



Darkroom system : MVG SG24LT (Satmio)



Matching Circuit

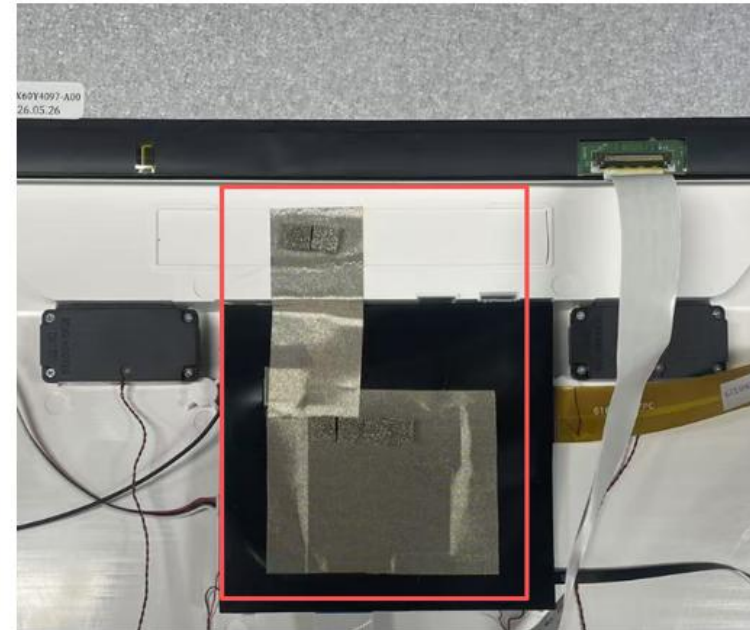


main antenna design

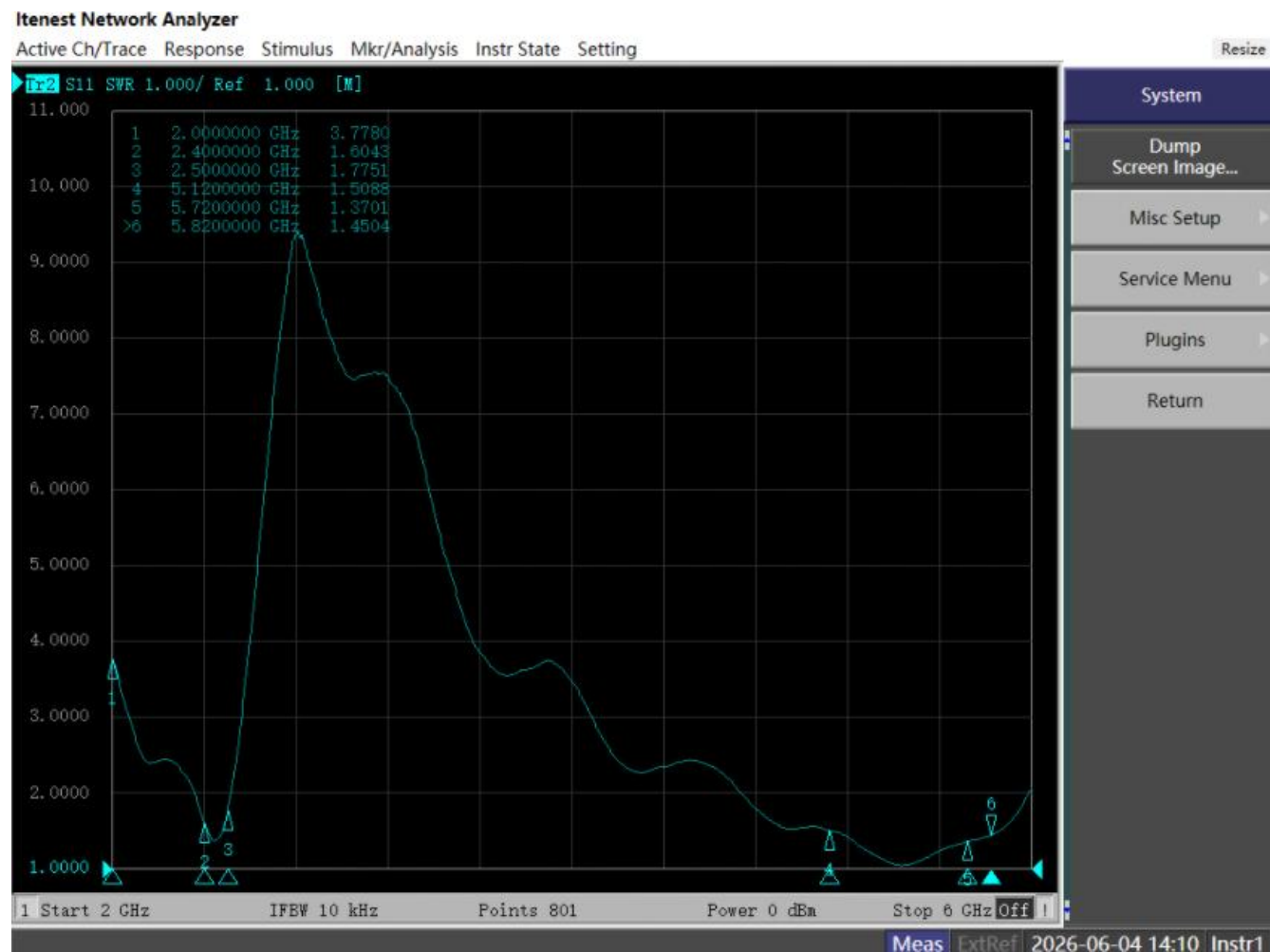
Element	Value
E1(0201):	
E2(0201):	
E3(0201):	
E4(0201):	

The antenna matching circuit remains unchanged.

Figure: The motherboard is grounded with a conductive sponge.



SWR



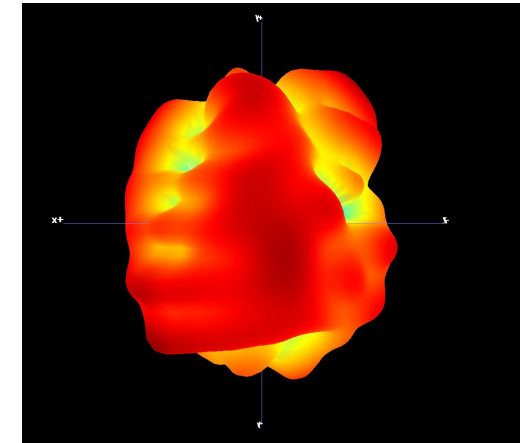
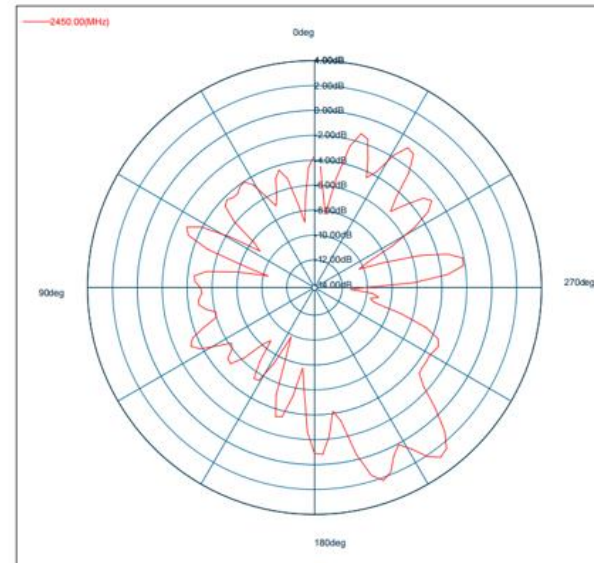
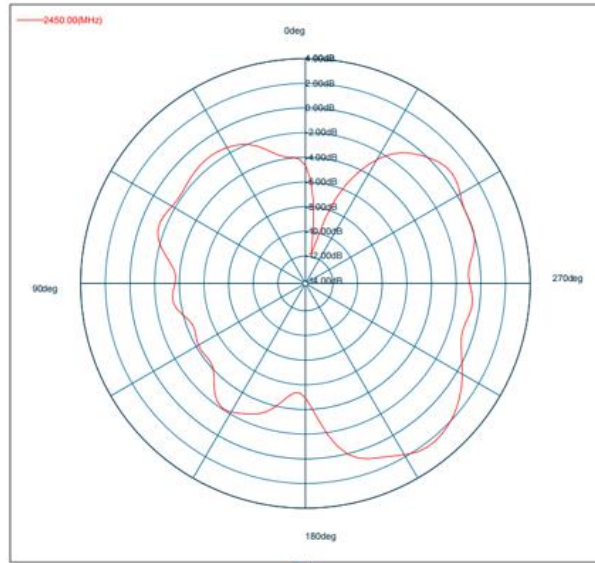
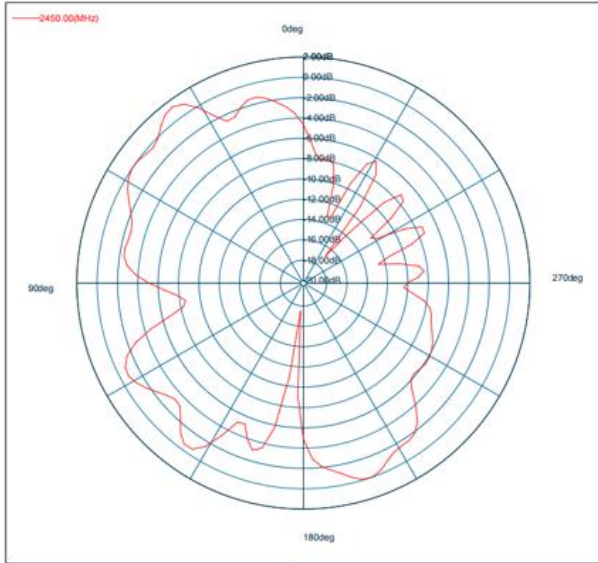
Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)

WIFI passive Efficiency, Gain

1			1			1			1		
Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dBi		Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dBi	
2400000000	59.93%	-2.2235	2.4E+09	3.323843		5150000000	29.81%	-5.25671	5.15E+09	5.301861	
2405000000	60.09%	-2.21162	2.41E+09	3.295414		5185000000	31.31%	-5.04361	5.19E+09	5.51776	
2410000000	61.36%	-2.12086	2.41E+09	3.3997		5220000000	32.25%	-4.91489	5.22E+09	5.815075	
2415000000	61.89%	-2.08354	2.42E+09	3.256155		5255000000	32.72%	-4.85211	5.26E+09	5.621385	
2420000000	62.87%	-2.01524	2.42E+09	3.485028		5290000000	33.91%	-4.69635	5.29E+09	5.646657	
2425000000	62.75%	-2.02402	2.43E+09	3.275008		5325000000	31.77%	-4.97981	5.33E+09	5.172729	
2430000000	64.55%	-1.90131	2.43E+09	3.564084		5360000000	31.74%	-4.98405	5.36E+09	5.061066	
2435000000	64.91%	-1.87691	2.44E+09	3.435517		5395000000	31.04%	-5.08094	5.4E+09	4.8556	
2440000000	64.66%	-1.89378	2.44E+09	3.586594		5430000000	30.21%	-5.19872	5.43E+09	4.796352	
2445000000	63.78%	-1.95292	2.45E+09	3.368138		5465000000	30.92%	-5.09752	5.47E+09	4.724941	
2450000000	65.41%	-1.8433	2.45E+09	3.647886		5500000000	31.32%	-5.0416	5.5E+09	4.955868	
2455000000	65.17%	-1.85965	2.46E+09	3.527206		5535000000	32.09%	-4.93574	5.54E+09	5.040888	
2460000000	66.09%	-1.79894	2.46E+09	3.71019		5570000000	31.99%	-4.94933	5.57E+09	5.161908	
2465000000	65.46%	-1.84055	2.47E+09	3.532262		5605000000	31.92%	-4.95894	5.61E+09	5.087091	
2470000000	66.24%	-1.78885	2.47E+09	3.716854		5640000000	33.53%	-4.74507	5.64E+09	5.36943	
2475000000	64.99%	-1.87123	2.48E+09	3.518577		5675000000	33.58%	-4.73902	5.68E+09	5.439628	
2480000000	64.78%	-1.88544	2.48E+09	3.566122		5710000000	33.71%	-4.72196	5.71E+09	5.317336	
2485000000	63.50%	-1.97209	2.49E+09	3.377872		5745000000	33.81%	-4.70961	5.75E+09	5.188338	
2490000000	62.92%	-2.01184	2.49E+09	3.384516		5780000000	32.90%	-4.82774	5.78E+09	4.914515	
2495000000	61.64%	-2.10104	2.5E+09	3.309011		5815000000	31.78%	-4.97836	5.82E+09	4.669345	
2500000000	60.51%	-2.18183	2.5E+09	3.138368		5850000000	31.72%	-4.98734	5.85E+09	4.777824	

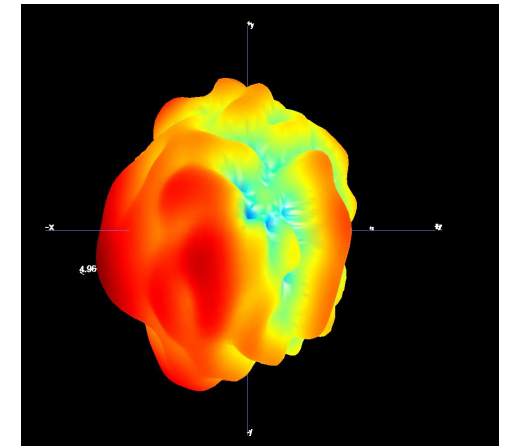
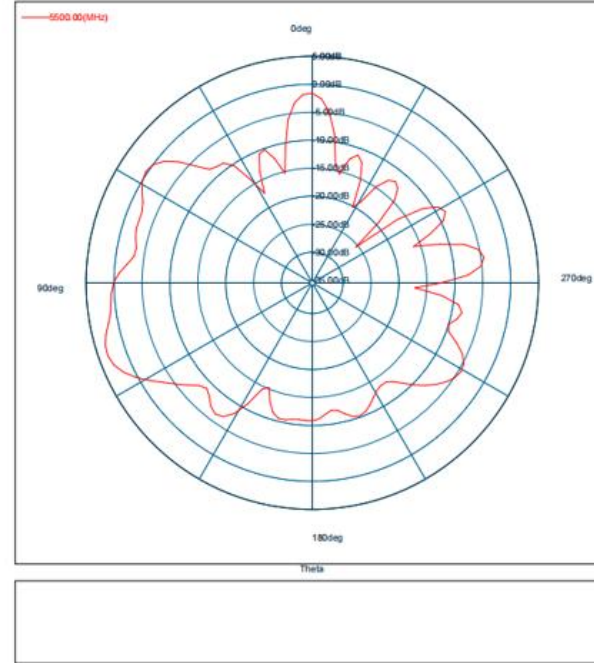
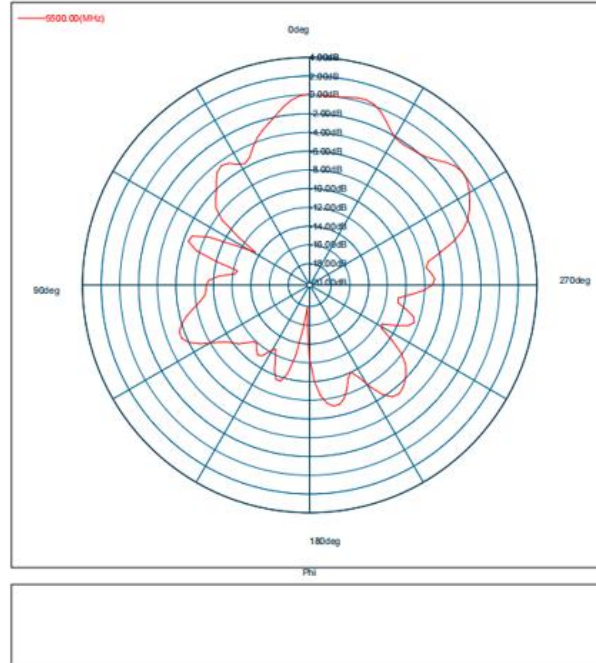
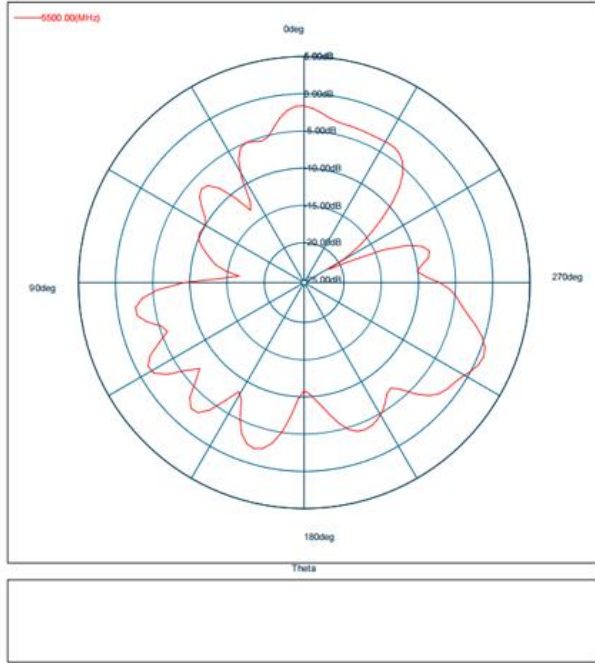
Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)

2.4G Passive pattern



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

5.8G Passive pattern

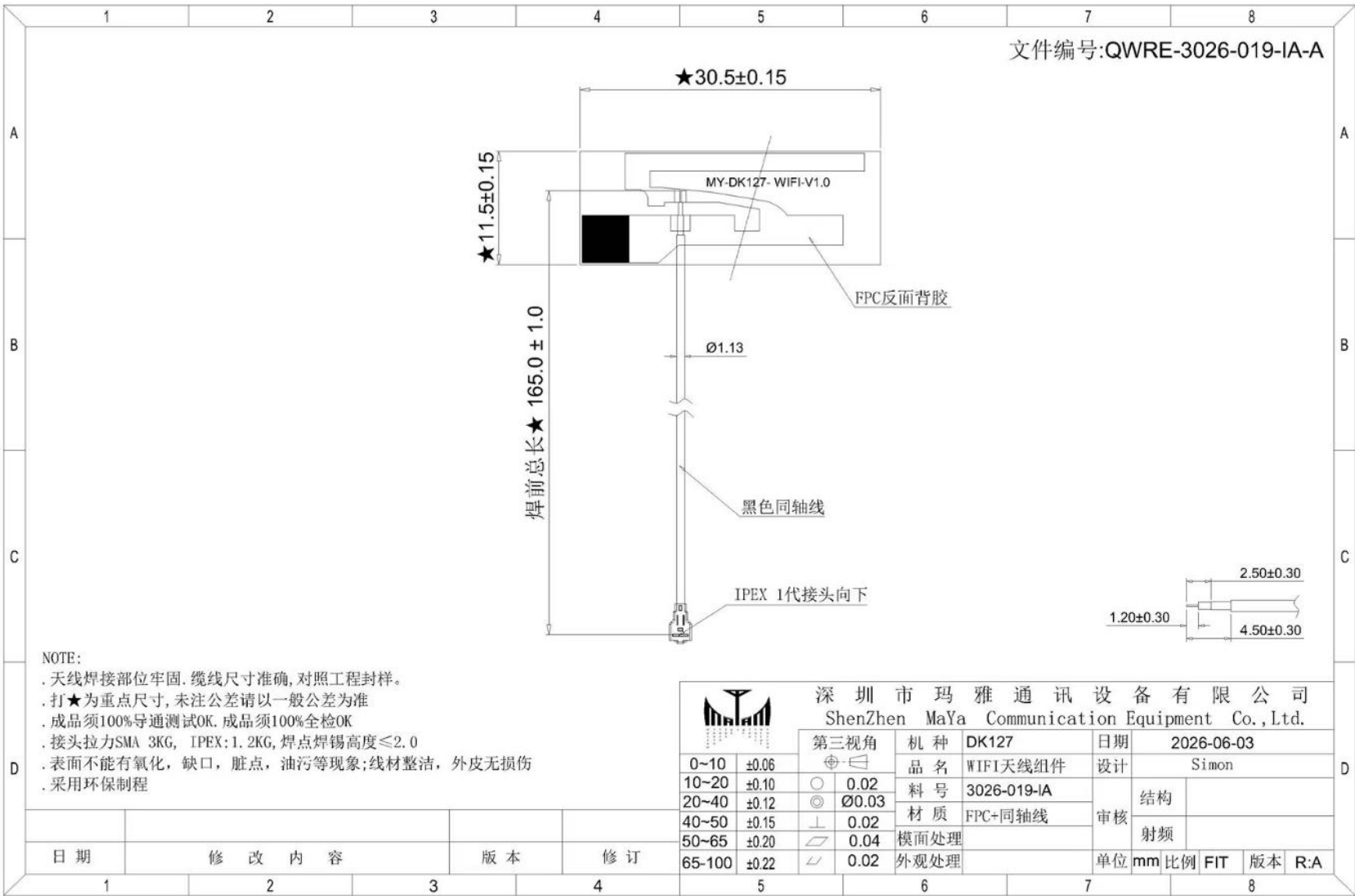


Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)



Band	CH	TRP	TIS
WIFI-B	L	16.47	-82.14
	M	16.32	
	H	16.15	
WIFI-G	L	15.27	-70.28
	M	15.37	
	H	15.42	
WIFI-N	L	15.07	-65.32
	M	15.24	
	H	15.42	
WIFI-A	L	12.64	-69.14
	M	13.45	
	H	14.51	

Band	CH	TRP	TIS
WIFI-AC	L	12.46	-64.08
	M	13.37	
	H	14.14	
WIFI-AX	L	12.39	-65.29
	M	13.52	
	H	14.19	





Conclusion



1. This report is the sample antenna test results .
2. If you have any questions, please call.

THANK YOU



If you have any questions, please contact us
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