



DK 077- Antenna Test Report

Date: 2024.4.23

CONTENTS

01

Project Overview

02

Test Environment

03

Matching Circuit

04

Environmental
Treatment

05

Passive Report

06

Active Report

07

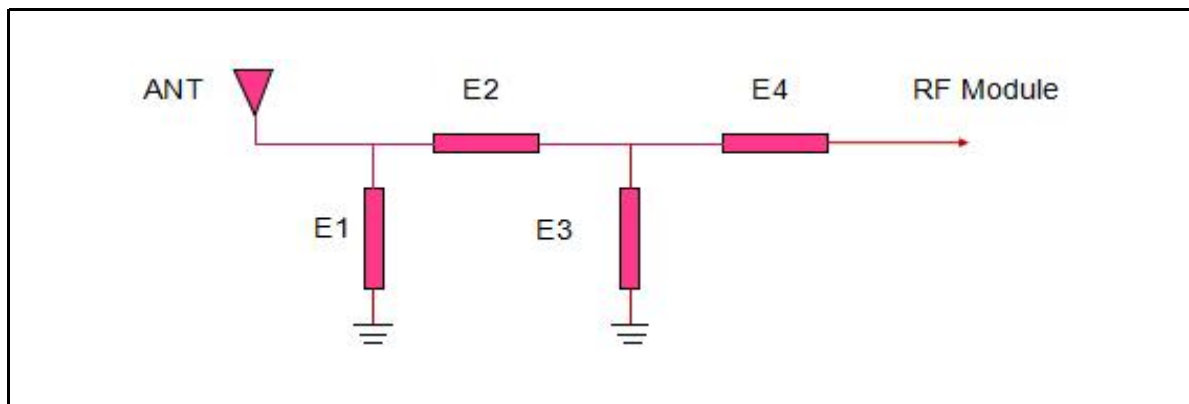
Conclusion



Antenna design spectrum:	WIFI 2.4/5.8G	Repor version:	Date	Content
Type of antenna:	PIFA	V1.0	2024.4.23	Antenna test report

Matching Circuit

main antenna design	
Element	Value
E1(0201):	/
E2(0201):	/
E3(0201):	/



Note: The matching circuit has not changed.

Figure: The red box is grounded with conductive cloth.



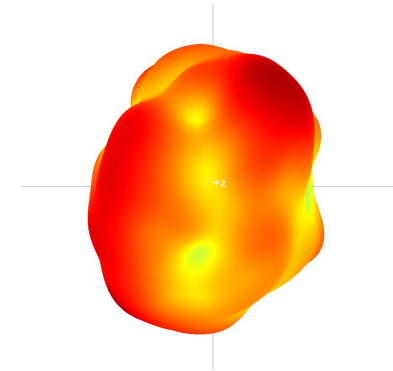
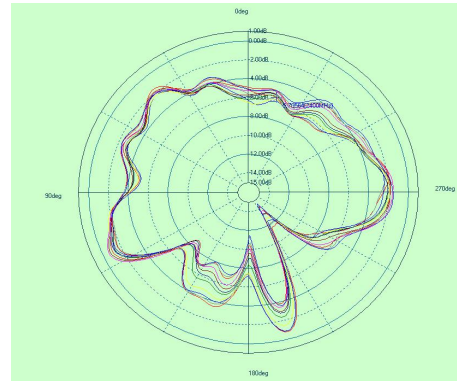
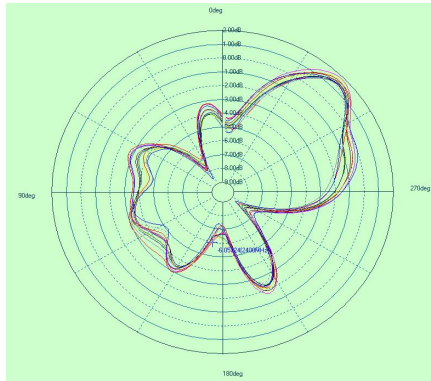
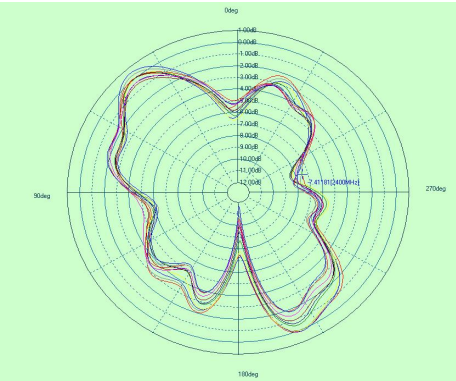
WIFI passive Efficiency, Gain

1号 (白色线)

Frequency	Efficiency	Efficiency. dB	Gain.dB	Frequency	Efficiency	Efficiency. dB	Gain.dB
2400	48%	-3.16	1.97	5150	53%	-2.79	5.56
2410	47%	-3.33	1.79	5200	48%	-3.18	4.18
2420	46%	-3.34	1.88	5250	53%	-2.72	3.47
2430	47%	-3.26	2.17	5300	59%	-2.28	4.64
2440	46%	-3.37	1.87	5350	57%	-2.44	5.14
2450	45%	-3.49	1.72	5400	52%	-2.81	5.09
2460	46%	-3.36	2.07	5450	52%	-2.80	4.79
2470	48%	-3.16	2.26	5500	46%	-3.37	4.44
2480	48%	-3.22	1.91	5550	46%	-3.37	4.49
2490	47%	-3.28	1.60	5600	54%	-2.70	5.68
2500	48%	-3.23	1.68	5650	61%	-2.13	6.32
				5700	59%	-2.30	6.32
				5750	52%	-2.86	6.18
				5800	49%	-3.09	6.10
				5850	58%	-2.36	6.85

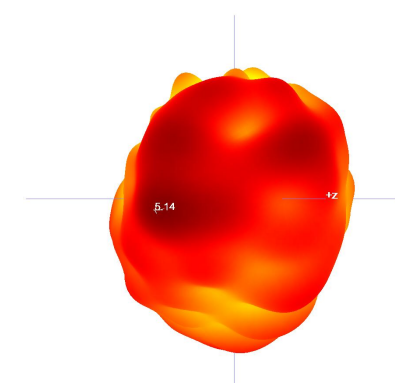
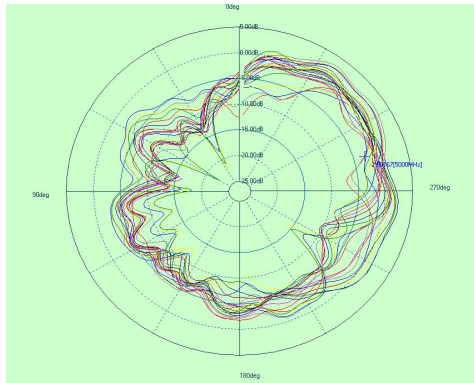
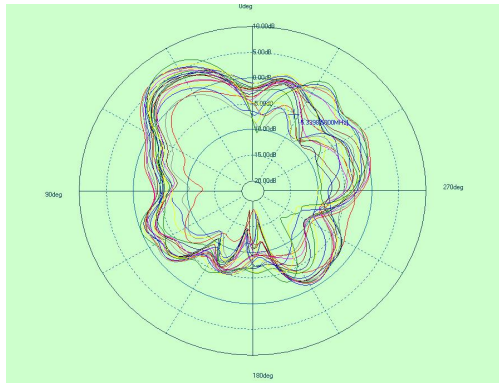
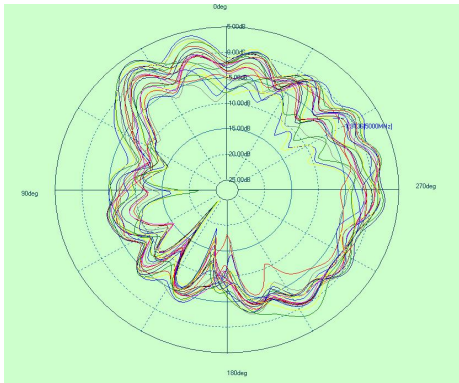
Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)

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



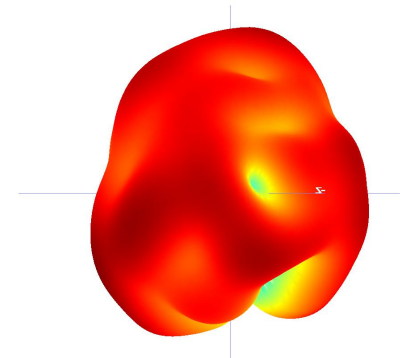
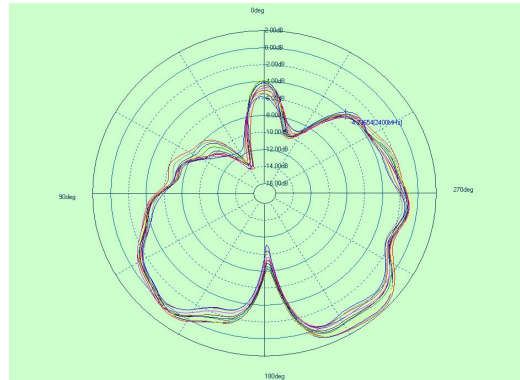
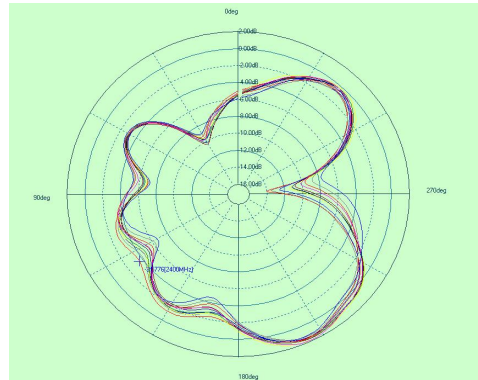
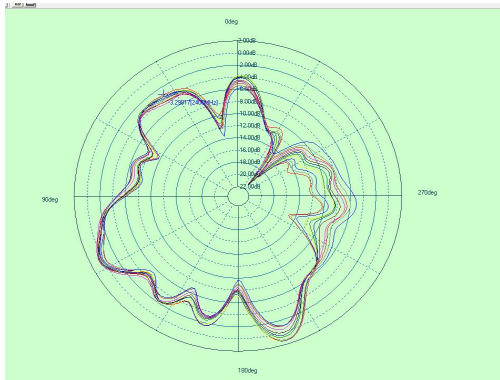
Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)



WiFi passive Efficiency, Gain

Frequency	Efficiency	Efficiency. dB	Gain.dB	Frequency	Efficiency	Efficiency. dB	Gain.dB
2400	49%	-3.06	2.17	5150	43%	-3.63	2.97
2410	47%	-3.27	2.03	5200	41%	-3.84	2.50
2420	47%	-3.25	1.96	5250	45%	-3.51	2.83
2430	49%	-3.06	2.10	5300	49%	-3.09	3.47
2440	48%	-3.22	1.80	5350	47%	-3.29	3.31
2450	46%	-3.35	1.66	5400	43%	-3.70	2.50
2460	47%	-3.32	1.96	5450	46%	-3.41	2.81
2470	47%	-3.27	2.10	5500	41%	-3.88	2.55
2480	44%	-3.52	1.66	5550	41%	-3.84	2.78
2490	43%	-3.64	1.36	5600	48%	-3.21	2.97
2500	44%	-3.61	1.40	5650	55%	-2.56	4.42
				5700	56%	-2.53	4.88
				5750	51%	-2.96	4.44
				5800	48%	-3.23	3.63
				5850	53%	-2.77	3.61

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






OTA

	Band	CH	TRP	TIS	
2.4G	b (11M)	1	10.28		
		7	11.26		
		13	12.38	-73.74	
	g (54M)	1	10.18		
		7	10.74		
		13	11.43	-63.28	
	n (MCS7)	1	10.35		
		7	10.35		
		13	11.35	-61.25	
	5.8G	a (54M)	36	12.51	
			149	16.01	
165			17.38	-73.22	
ac (MCS8)		36	10.92		
		149	15.17		
		165	15.67	-64.32	
ax (MCS8)		36	12.12		
		149	15.33		
		165	15.28	-64.69	

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
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.