



DK 084- Antenna Test Report

Date: 2024. 4. 30

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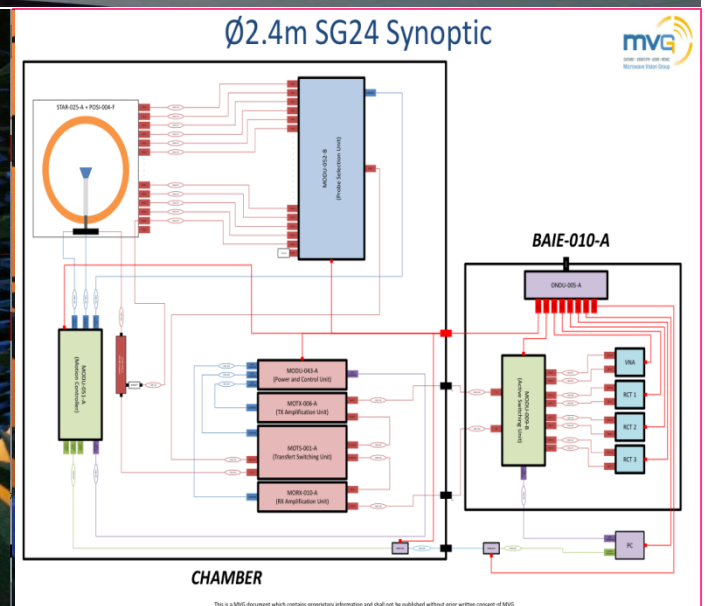
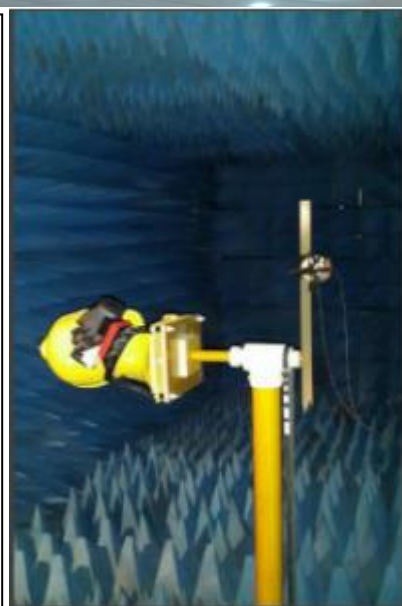
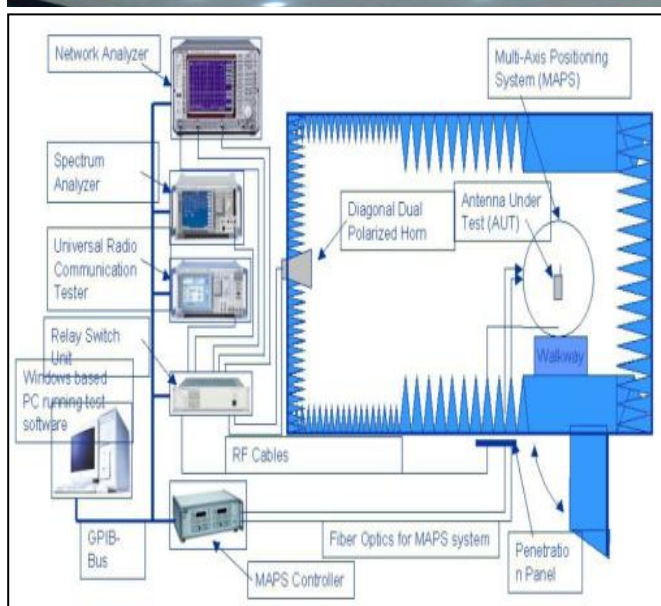
07

Conclusion



Antenna design spectrum:	WIFI 2.4/5.8G	Repor version:	Date	Content
Type of antenna:	PIFA	V1.0	2024.4.30	Antenna test report

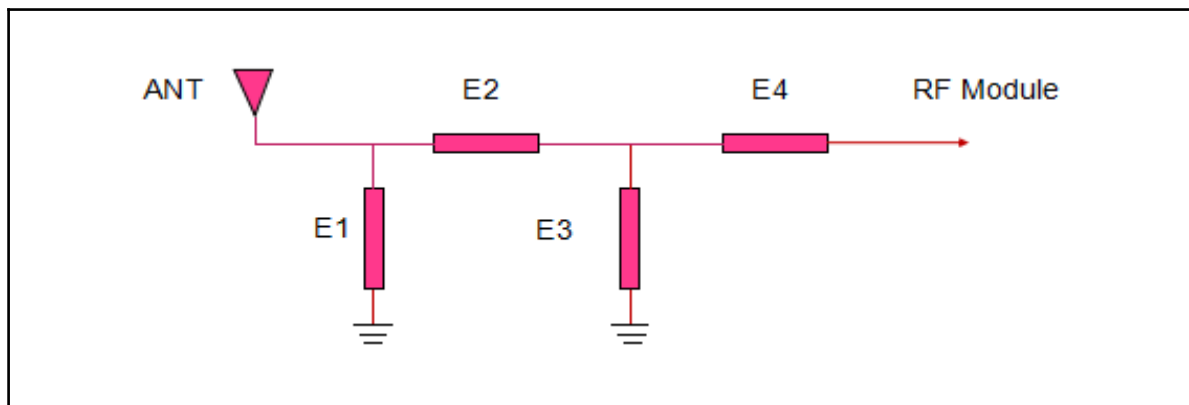
Test Environment



Darkroom system : MVG SG24LT (Satmio)

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.



1#



2#



WIFI passive Efficiency, Gain

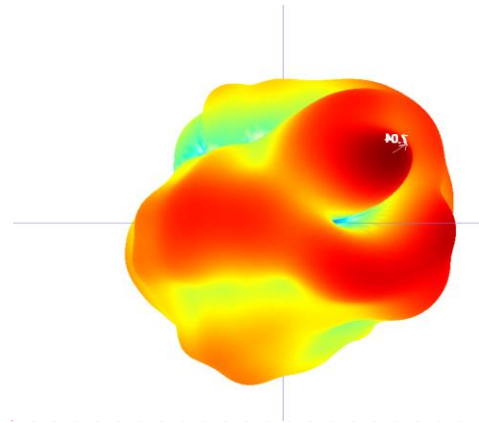
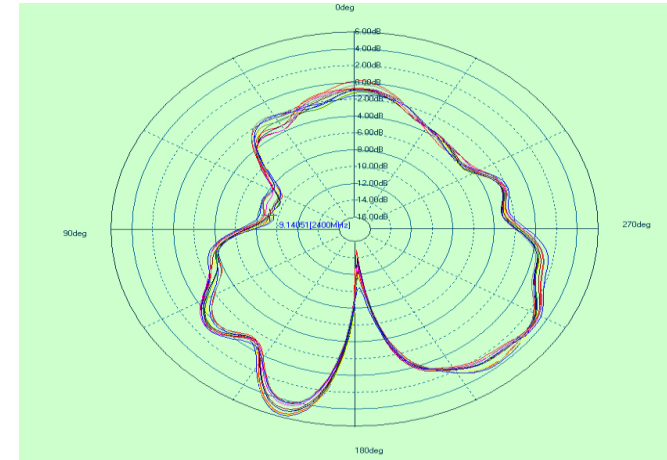
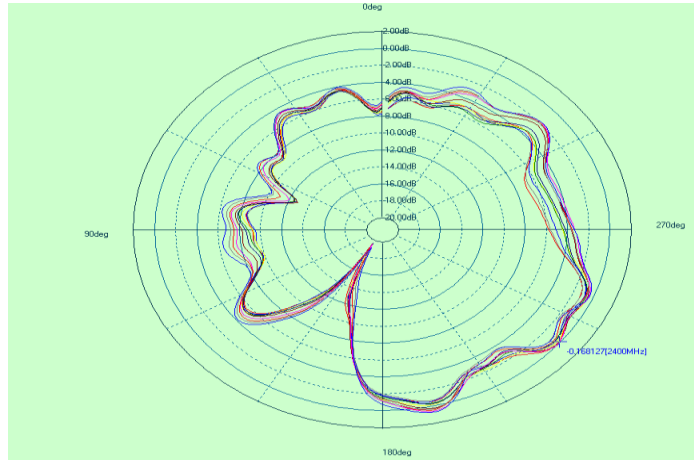
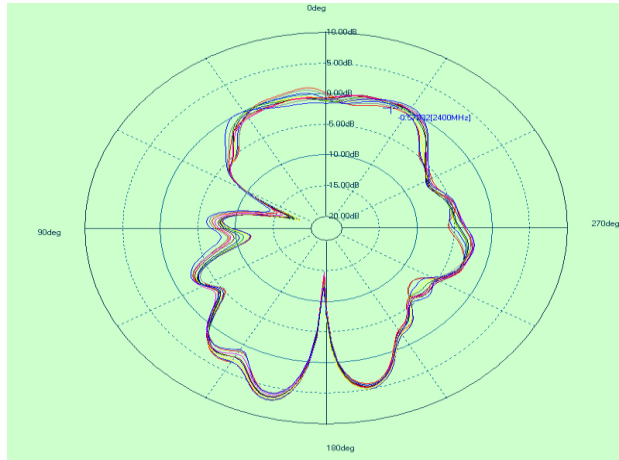
1#

Frequency	Efficiency	Efficiency. dB	Gain.dB
2400	63%	-2.0137	3.490373
2410	63%	-2.03941	3.585664
2420	64%	-1.96827	3.5369
2430	64%	-1.91489	3.314021
2440	63%	-2.01742	2.927531
2450	63%	-2.01822	3.035577
2460	65%	-1.85945	2.967651
2470	66%	-1.82596	2.641949
2480	64%	-1.93578	2.311828
2490	65%	-1.90297	2.342364
2500	67%	-1.71498	2.392985

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)

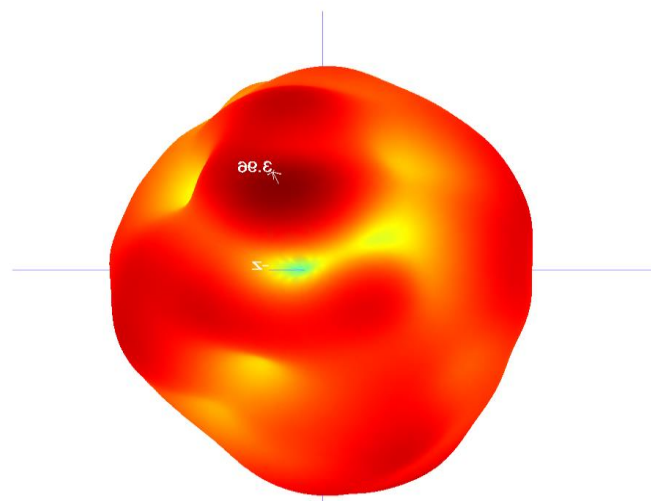
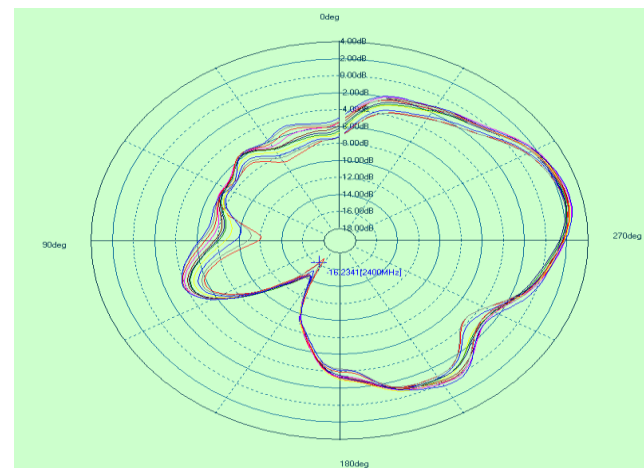
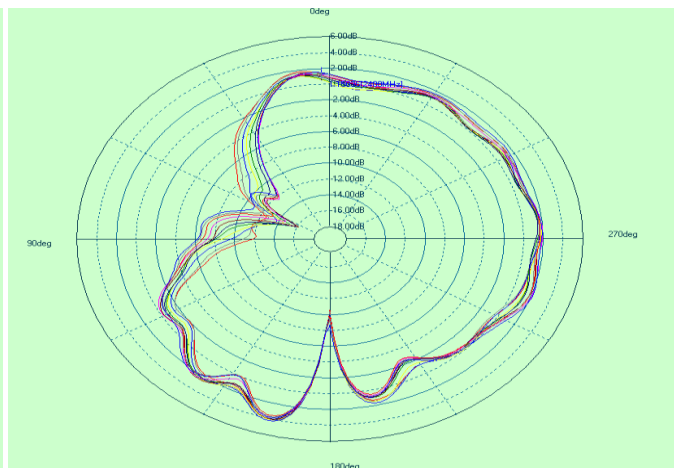
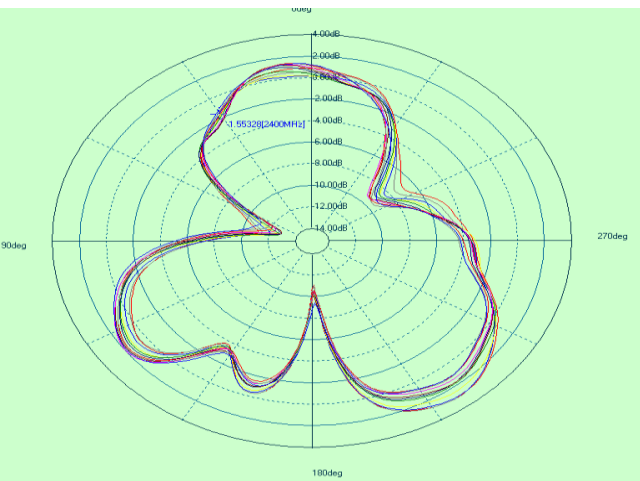
WIFI passive Efficiency, Gain

2#

Frequency	Efficiency	Efficiency. dB	Gain.dB	Frequency	Efficiency	Efficiency. dB	Gain.dB
2400	65%	-1.8536	4.0062	5150	66%	-1.77945	5.737716
2410	65%	-1.90195	4.253729	5200	67%	-1.76084	5.557453
2420	65%	-1.86791	4.276728	5250	72%	-1.43233	5.613328
2430	66%	-1.79051	4.088811	5300	68%	-1.6574	6.016239
2440	65%	-1.8562	3.75106	5350	75%	-1.25361	6.252327
2450	65%	-1.86889	3.962361	5400	68%	-1.64807	6.560473
2460	68%	-1.6812	4.006777	5450	59%	-2.27232	5.446543
2470	69%	-1.61879	3.754597	5500	51%	-2.9	4.510936
2480	67%	-1.73521	3.555033	5550	51%	-2.93061	3.71406
2490	67%	-1.72801	3.715827	5600	53%	-2.7367	3.537267
2500	70%	-1.53821	3.842194	5650	50%	-2.97991	3.698015
				5700	46%	-3.34777	3.96846
				5750	45%	-3.47482	3.495505
				5800	38%	-4.22314	2.710887
				5850	36%	-4.44204	2.033834

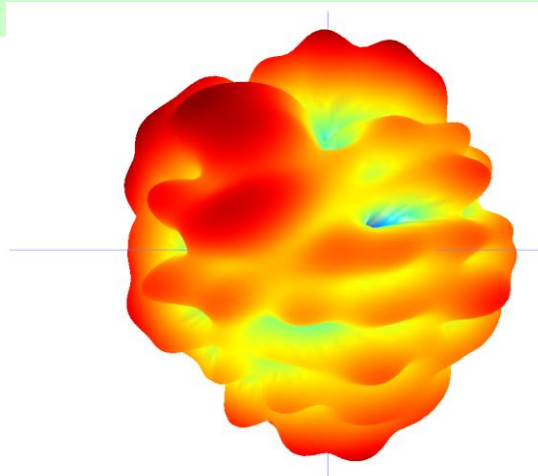
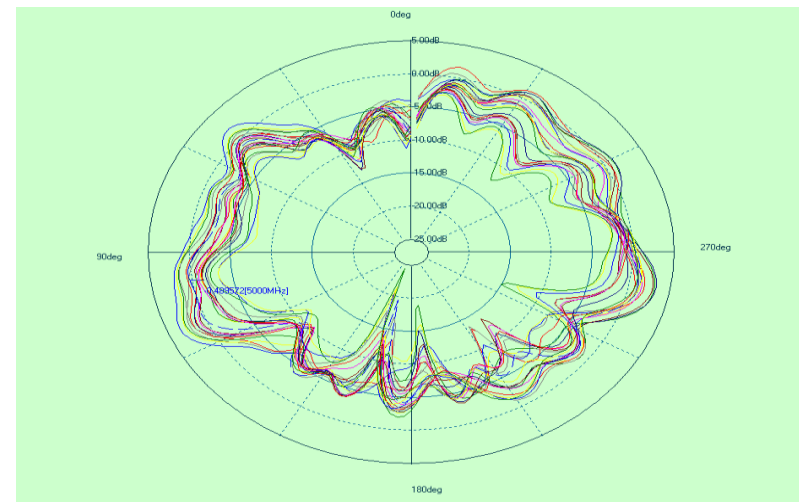
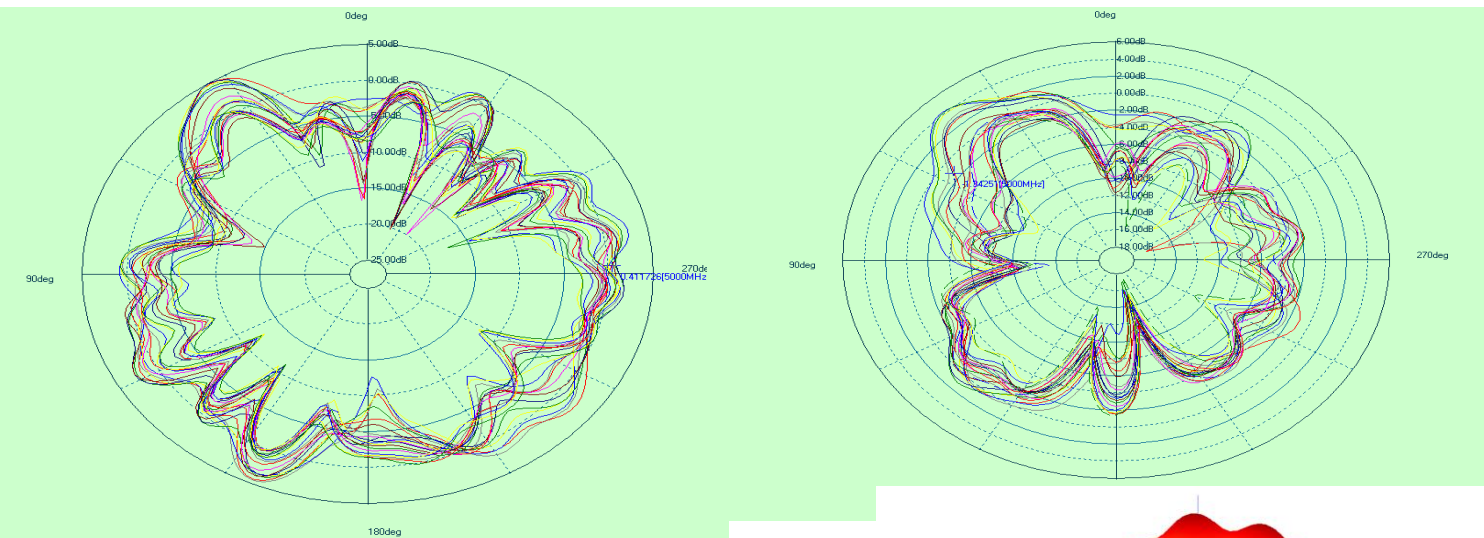
Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)

2. 4G



Passive Report

5G





OTA


BAND		b			g		
WIFI	CHANNEL	L	M	H	L	M	H
	TRP	13.2	13.5	14.5	11.2	11.3	10.5
	TIS			-69.5			-58.5
BAND		n					
WIFI	CHANNEL	L	M	H	L	M	H
	TRP	11.0	11.3	7.1			
	TIS			-55.5			
BAND		A			AC		
WIFI	CHANNEL	L	M	H	L	M	H
	TRP	11.1	11.5	12.5	11.7	11.2	11.1
	TIS			-68.5			-63.2

A decorative graphic consisting of two squares: a red one on top and a black one on the bottom, both with a gradient effect.

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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