



TAB8wifi- Antenna Test Report

Date: 2023.04.04

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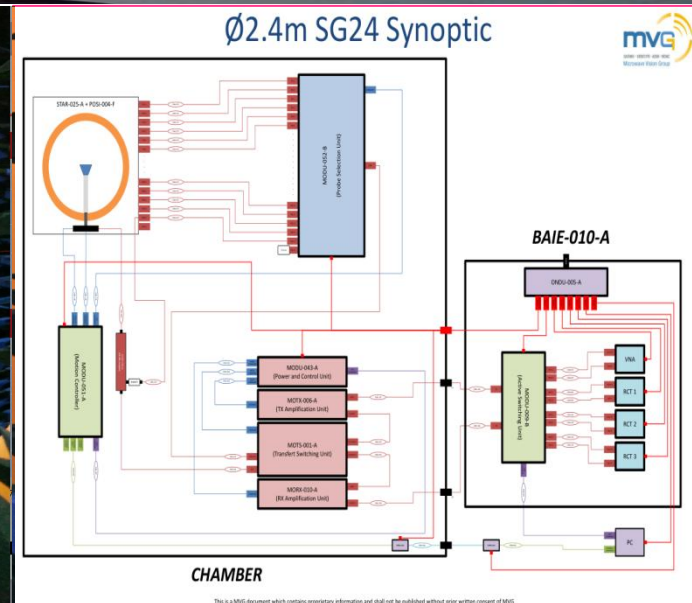
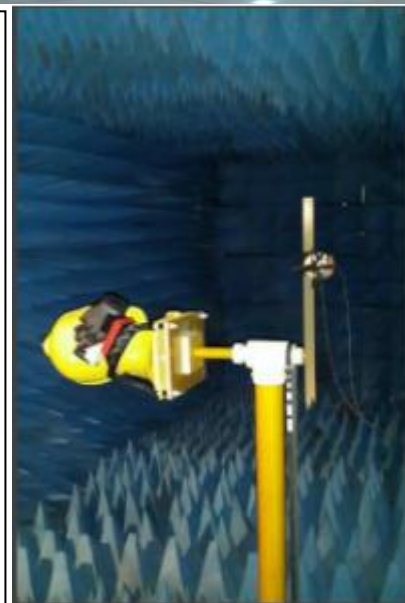
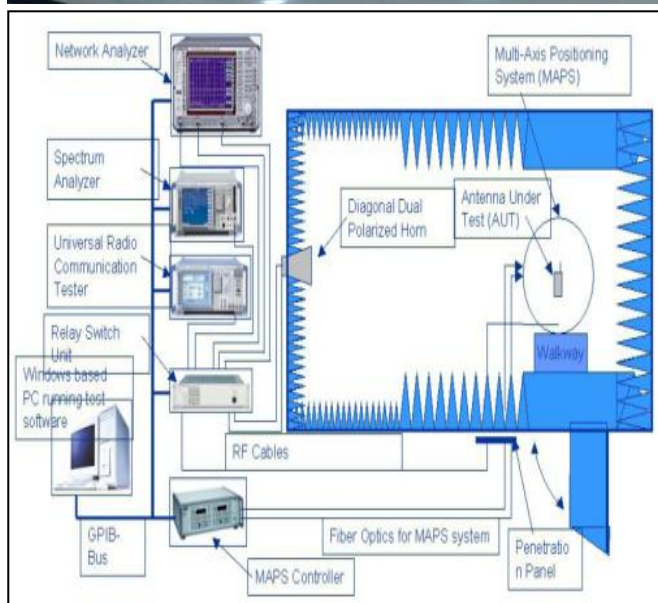


Project Overview



Main antenna design spectrum:	WIFI 2.4/5.8G	Repor version:	Date	Content
Type of antenna:	PIFA	V5.0	2023.04.04	Antenna test report

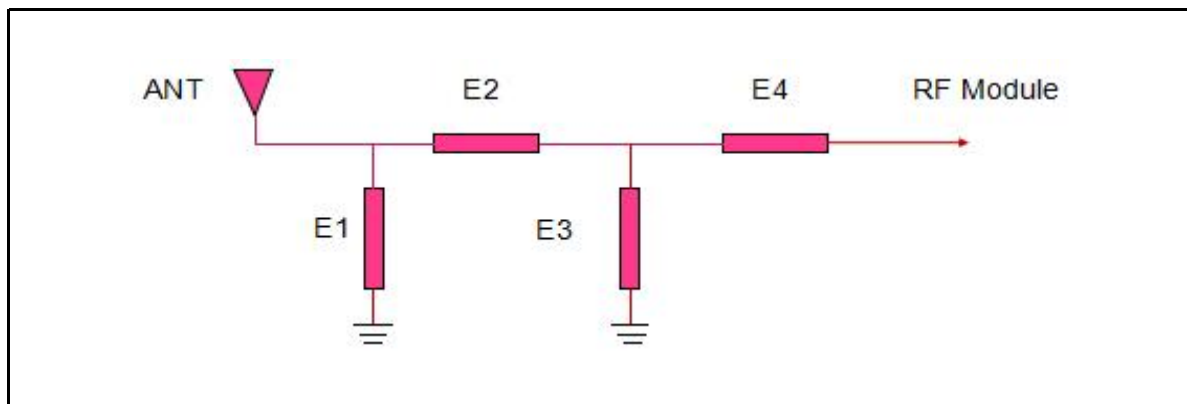
Test Environment



Darkroom system : MVE SG24LT (Satmio)

Matching Circuit

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



Note: The matching circuit has not changed.

Figure: The motherboard is grounded with a conductive sponge.

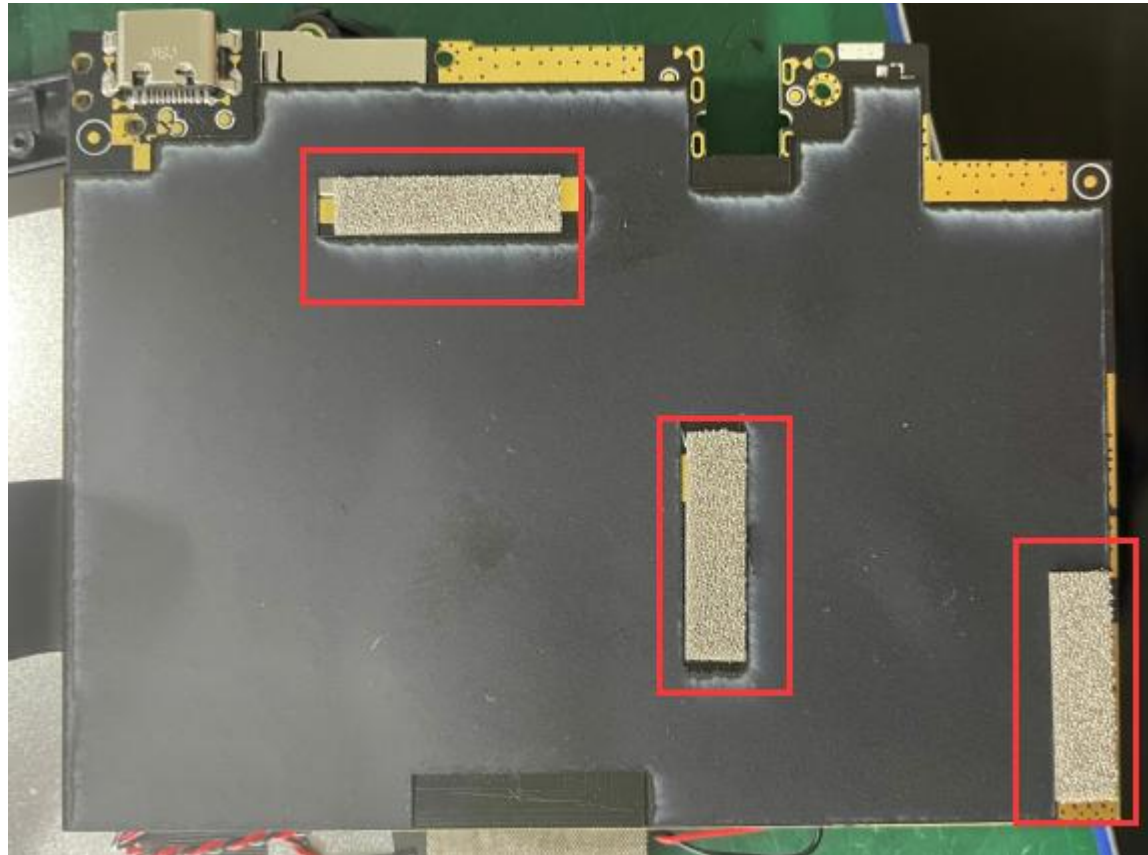
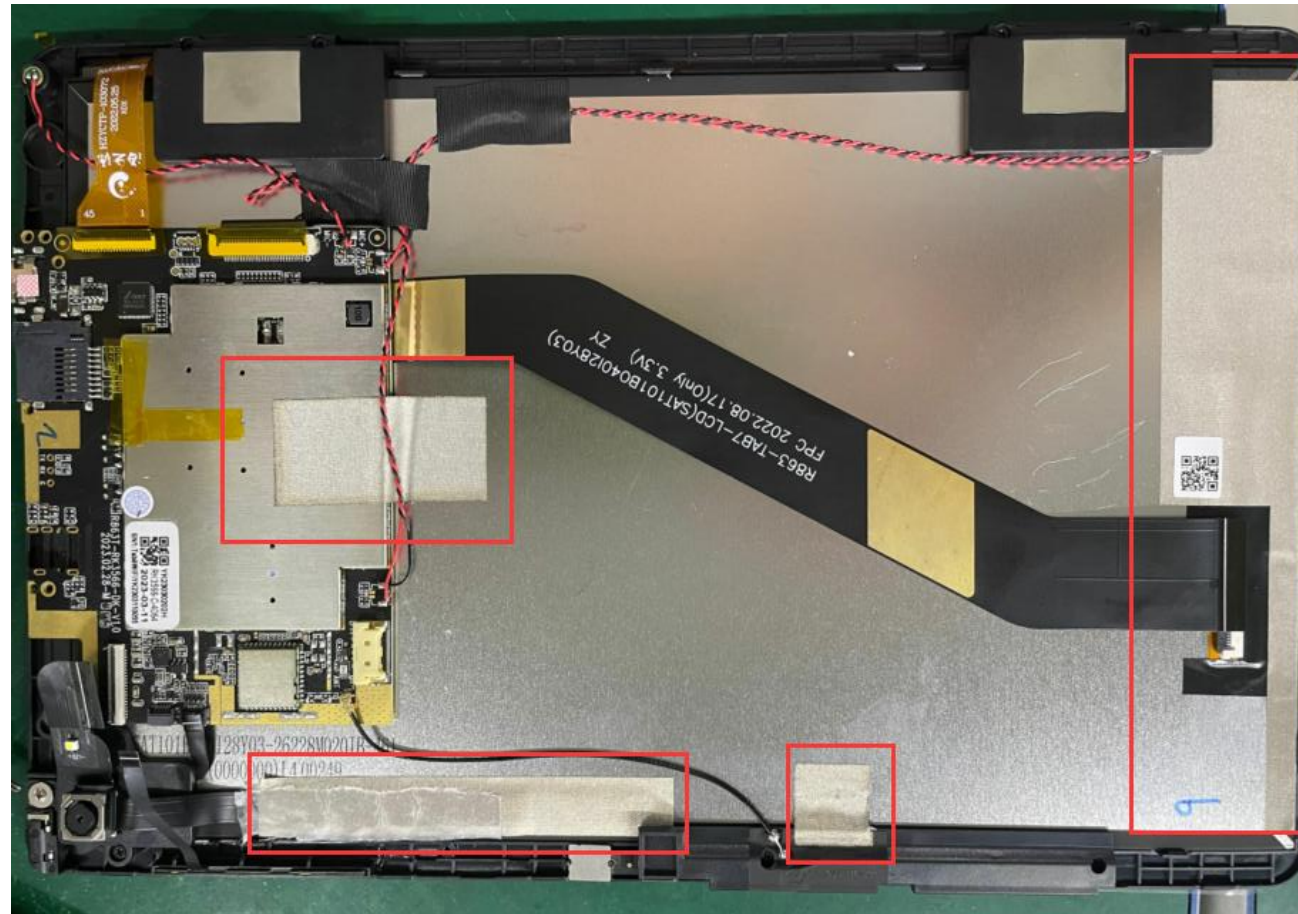


Figure: The red box is grounded with conductive cloth.

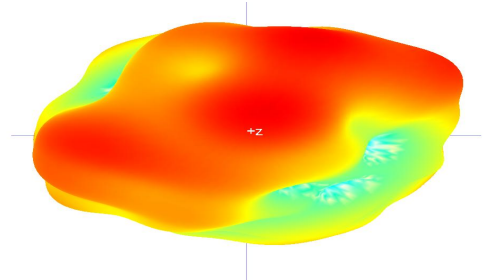


WIFI passive Efficiency, Gain

1			1		1			1	
Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dB	Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dB
5200000000	42.93%	-3.67287	5200000000	2.977131	2400000000	44.82%	-3.484984946	2400000000	2.874231459
5230000000	38.27%	-4.17186	5230000000	2.987121	2410000000	44.32%	-3.534478279	2410000000	2.954531211
5260000000	37.69%	-4.23748	5260000000	2.996506	2420000000	43.41%	-3.623923999	2420000000	3.004531210
5290000000	36.62%	-4.3634	5290000000	2.424153	2430000000	43.89%	-3.576201949	2430000000	2.942131213
5320000000	32.66%	-4.85925	5320000000	2.678045	2440000000	43.70%	-3.594853427	2440000000	2.756341287
5350000000	29.40%	-5.31707	5350000000	2.715533	2450000000	43.78%	-3.586833388	2450000000	2.984561243
5380000000	28.59%	-5.43732	5380000000	2.301797	2460000000	44.56%	-3.510249255	2460000000	2.012786124
5410000000	30.76%	-5.1206	5410000000	2.225649	2470000000	45.56%	-3.414411472	2470000000	2.994212731
5440000000	33.89%	-4.6996	5440000000	2.513064	2480000000	45.52%	-3.417612236	2480000000	2.986329883
5470000000	31.72%	-4.98645	5470000000	2.321311	2490000000	45.93%	-3.378598412	2490000000	2.1472105134
5500000000	34.13%	-4.6685	5500000000	2.741788	2500000000	47.31%	-3.250416025	2500000000	2.9754341236
5530000000	34.55%	-4.61585	5530000000	2.91396					
5560000000	33.75%	-4.71698	5560000000	3.016482					
5590000000	30.10%	-5.21435	5590000000	2.685767					
5620000000	26.97%	-5.69189	5620000000	2.137515					
5650000000	26.08%	-5.83653	5650000000	1.87917					
5680000000	26.26%	-5.80681	5680000000	1.631634					
5710000000	25.48%	-5.93738	5710000000	1.164549					
5740000000	26.77%	-5.72383	5740000000	1.003139					
5770000000	29.62%	-5.28403	5770000000	2.986852					
5800000000	30.21%	-5.19899	5800000000	1.009535					

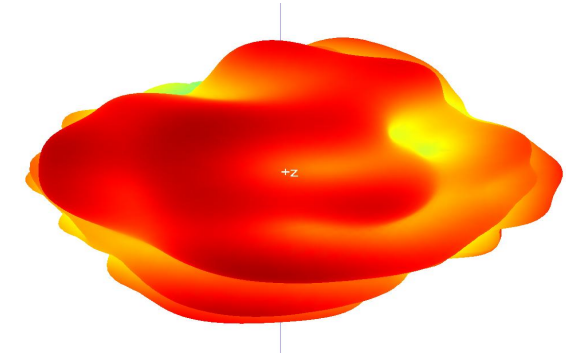
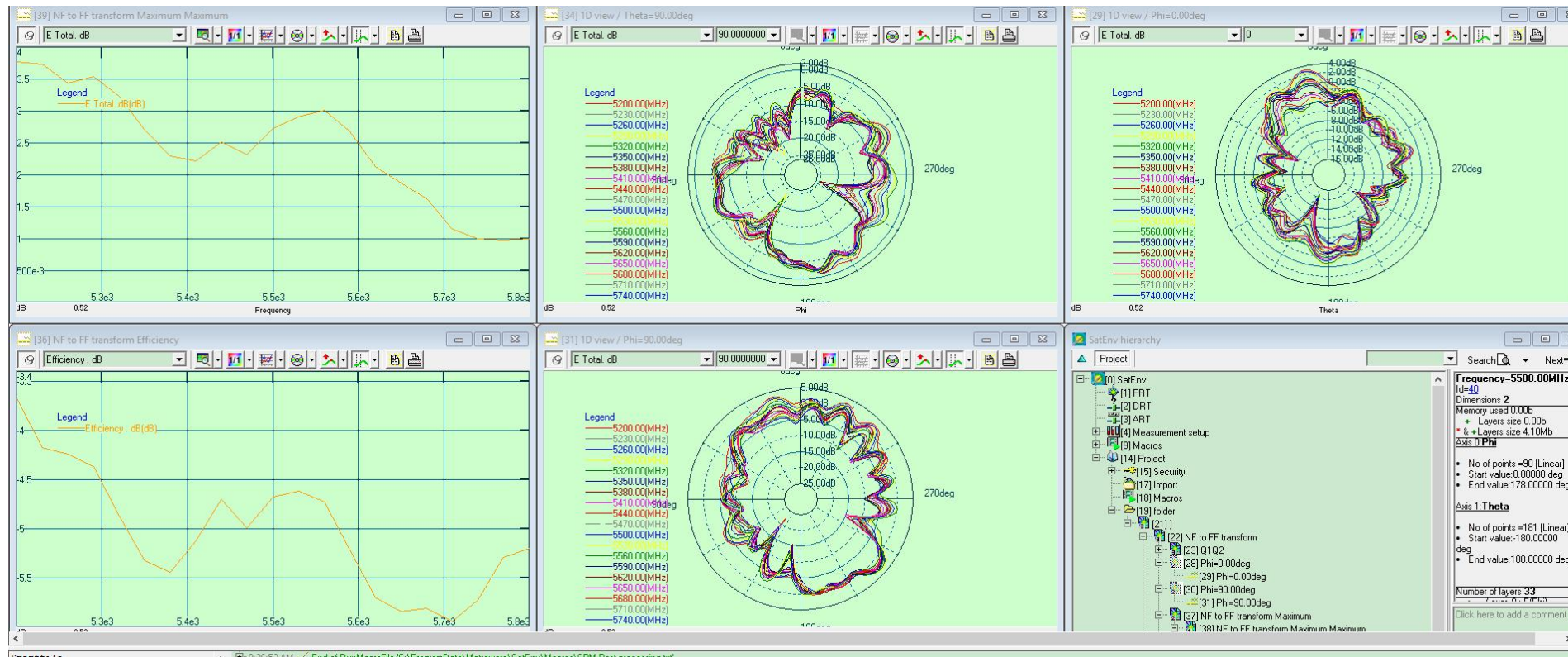
Measuring instrument : Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer Darkroom system : MVG SG24LT (Satmio)

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)



OTA

3D	BAND	WiFi_B			WiFi_G		
	CHANNAL	L	M	H	L	M	H
	TRP	16. 27	16. 52	16. 62	13. 37	13. 52	13. 57
	TIS			-82. 57			-70. 04
	BAND	WiFi_N					
	CHANNAL	L	M	H			
	TRP	13. 32	13. 41	13. 47			
	TIS			-66. 24			



OTA

3D	BAND	WiFi_A			WiFi_N		
	CHANNAL	L	M	H	L	M	H
	TRP	15. 46	15. 41	15. 21	13. 32	13. 42	13. 47
	TIS			-70. 42			-65. 43
	BAND	WiFi_AC			WiFi_AX		
	CHANNAL	L	M	H	L	M	H
	TRP	13. 21	13. 37	13. 34	13. 57	13. 52	13. 64
	TIS			-65. 05			-65. 32



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
Daily service hours : Monday to Saturday 9:00-18:00
Switchboard Hotline : 0755-36615535 Fax: 0755-82916227
 website : www.mayaant.com

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