

Scout RFANT Report

Presenter: Adam Chen 2022/11/14

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Antenna Report (2/11)

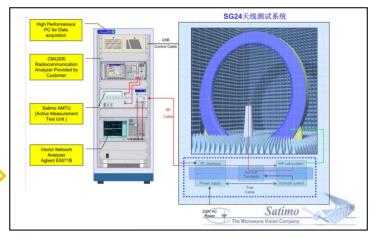
- 1. Test dates: 2022/09/14
- 2. Test personnel names: Jack Yeh
- 3. Equipment list (including MVG software used) & calibration dates SATIMO SG-24 system calibration date: every morning

4. Test Instruments

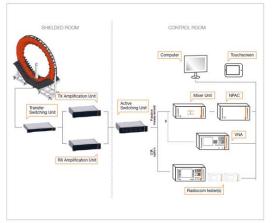
Description Manufacturer	Model No.	Calibrated Date	Calibrated Until
Satimo	SG24	2022/11/29	2023/11/29
Keysight Network Analyzer	E5071C	2020/3/3	2023/3/3

Test Instruments

- •Test software : satimo SG24 SPM V15
- •Placing DUT in chamber and using software to set the frequency for measurement ,and use software to calculate efficiency/ gain/3D raw data .

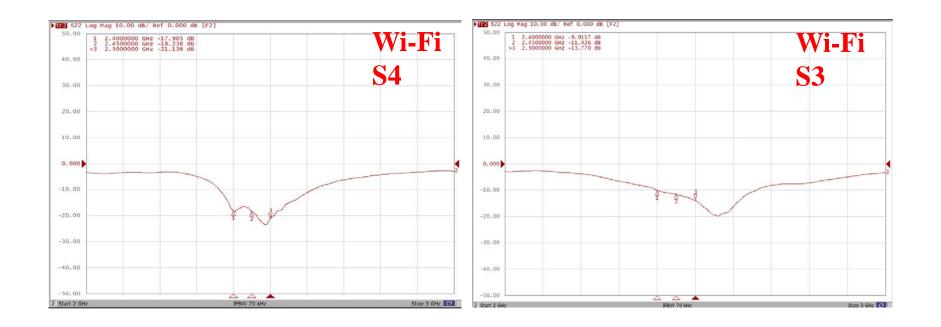


System overview



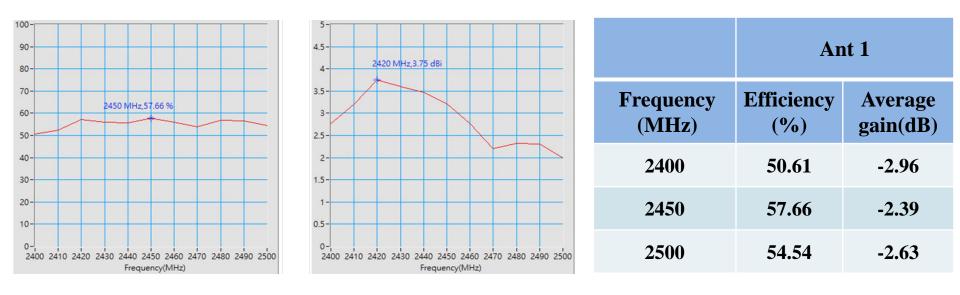
Antenna Report (3/11)

Return Loss & Isolation WI-Fi



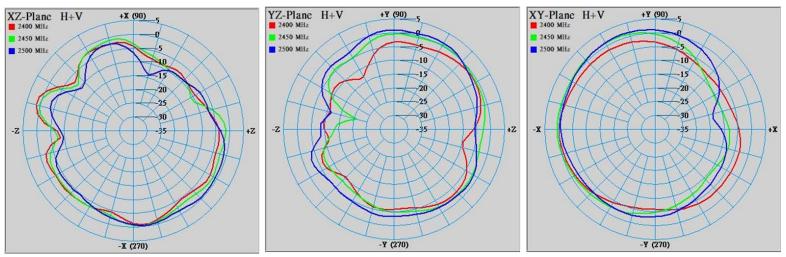
Antenna Report (4/11)

Peak Gain & Efficiency @WI-Fi S3



Antenna Report (5/11)

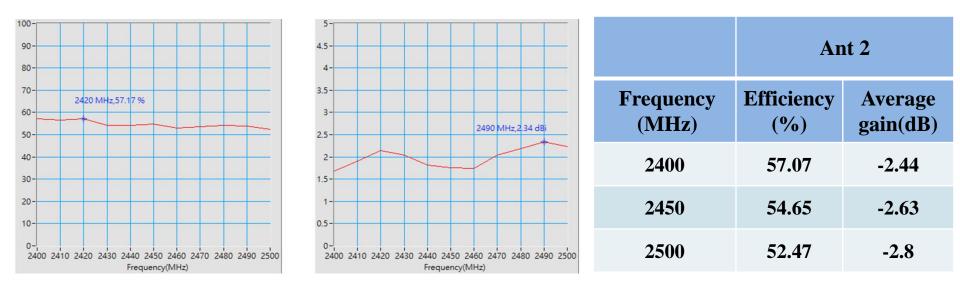
2D Gain Pattern @Wi-Fi S3



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.35	-2.20	-1.01	-5.20	-0.17	-3.26
2450	1.09	-2.31	0.27	-3.27	1.02	-2.45
2500	0.97	-4.09	1.16	-2.40	1.22	-2.18

Antenna Report (6/11)

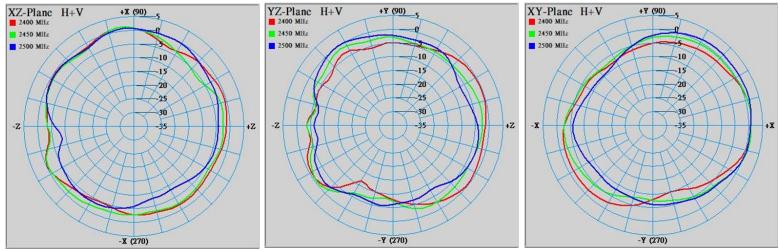
Peak Gain & Efficiency @WI-Fi S4



Antenna Report (7/11)

• KG

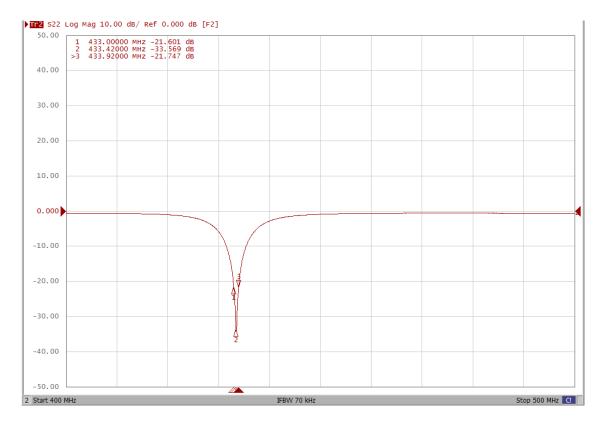
2D Gain Pattern @Wi-Fi S4



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.09	-1.78	-0.30	-3.12	0.92	-3.09
2450	1.19	-2.11	-0.52	-3.46	0.95	-2.69
2500	0.92	-2.84	0.07	-3.85	1.04	-2.57

Antenna Report (9/11)

Return Loss Sub-G



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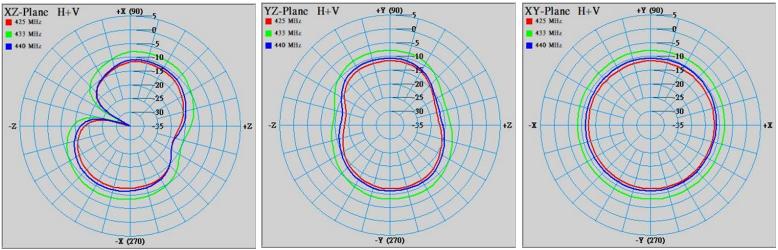
Antenna Report (10/11)

Efficiency @Sub-G

	433MHz			
Frequency (MHz)	Efficiency (%)	Average gain(dB)		
425	4.94	-13.06		
433	13.77	-8.61		
440	6.01	-12.21		

Antenna Report (11/11)

2D Gain Pattern @ Sub-G



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	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
425	-11.30	-13.99	-11.65	-13.70	-11.54	-11.95
433	-7.20	-10.21	-7.83	-9.88	-7.57	-8.12
440	-10.66	-13.15	-10.66	-12.77	-10.31	-11.02



New Kinpo Group

THANK YOU FOR YOUR ATTENTION.

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