

AUT Report

Test Equipment

Microwave Vision Group (Former SATIMO社) SG32

Calibration Date Oct., 2022

Software

SatEnv

Test by

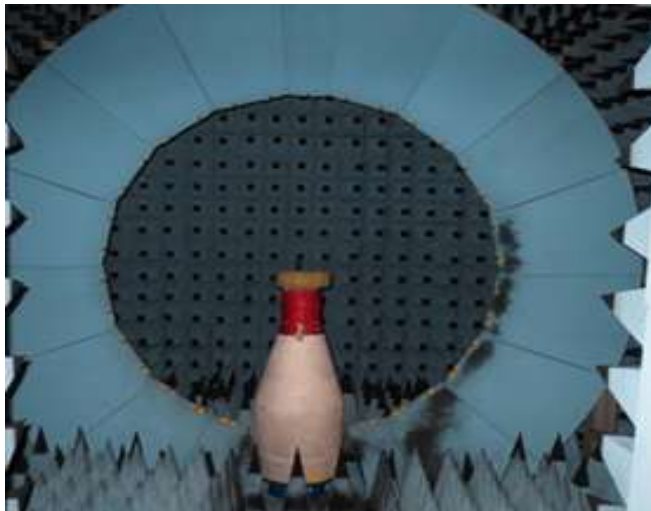
Kanazawa Murata Manufacturing Co.,Ltd.

18 Chi, Sodani-machi, Hakusan-shi, Ishikawa 920-2101, Japan

Test Measurer

Rie Ichimura

Photo of Test Equipment



Testing date

July 12, 2023

Summary S0123WIFI-PCA

Antenna	Pattern Antenna
Peak Gain	2.4GHz: -2.4dBi
Frequency	2.4GHz: 2.412-2.472GHz
Apperance	See "Apperance"

【評価条件】

Condition	Memo
Condition1	Optimized matching for S0123WIFI-PCA

【評価結果】

最大利得 Peak Gain [dBi]				
	Frequency [MHz]			Maximum
Condition	2400	2442	2484	2GHz band
Condition1	-2.4	-2.4	-2.7	-2.4

効率 Total Efficiency [dB]					
	Frequency [MHz]			Average	Average
Condition	2400	2442	2484	2GHz band	2GHz band
Condition1	-4.5	-4.5	-4.5	-4.5	35.7

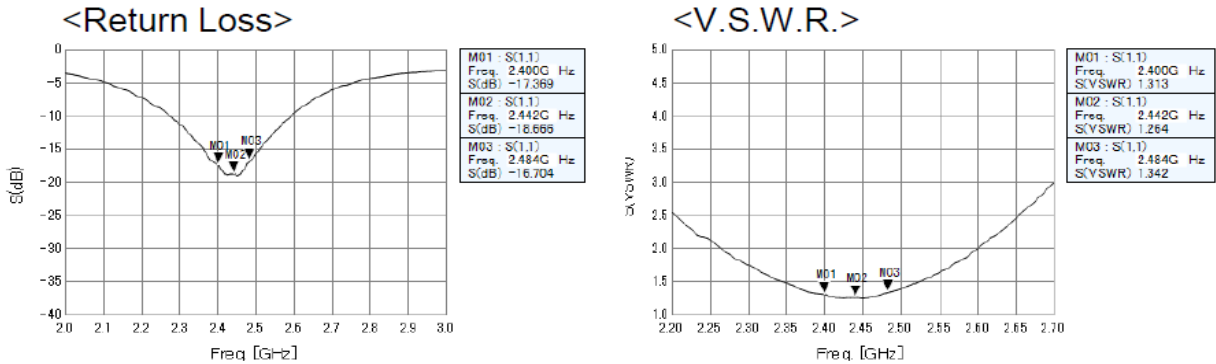
【Measurement condition】

		Matching circuit					
Turing1	Tuning2	Shunt1	Series1	Shunt2	Shunt3	Series2	Shunt4
4.3nH	1.0pF	None	1.8nH	None	None	0Ω	None



4. Measurement result

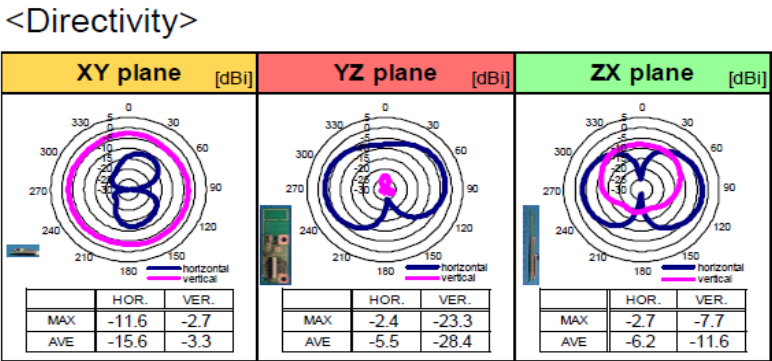
Condition 1: Optimized matching circuit



<Efficiency>

LINEAR POLAMIZATION		XY-plane		YZ-plane		ZX-plane		Total Efficiency
		hor.	ver.	hor.	ver.	hor.	ver.	
2400 MHz	MAX.	-11.4	-2.8	-2.4	-21.8	-2.8	-7.6	-4.5
	AVE.	-15.5	-3.3	-5.6	-27.4	-6.3	-11.4	
2442 MHz	MAX.	-11.6	-2.7	-2.4	-23.3	-2.7	-7.7	-4.5
	AVE.	-15.6	-3.3	-5.5	-28.4	-6.2	-11.6	
2484 MHz	MAX.	-11.5	-2.8	-2.7	-24.9	-2.8	-7.8	-4.5
	AVE.	-15.6	-3.3	-5.6	-29.0	-6.2	-11.6	

*Red color shows peak gain



@2442MHz

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