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FCC Part 15 Antenna Gain Test Report

FCC ID:

AK8YY2964

Type of Equipment: Radio Equipment Model No.: YY2964 Similar Model(s) N/A to be covered by this report: Sony Global Manufacturing & Operations Corporation Test Facility: EMC/RF Test Laboratory, Main Lab. 8-4 Shiomi Kisarazu-shi Chiba-ken, 292-0834, Japan Date of Testing: November 13, 2023 Date of Issue: November 14, 2023 Reported by: Approved Signatory: Jeruya Maeda Yuki Furuse Yuki Furuse (Technical Engineer) Teruya Maeda(Technical Manager)

1. Measurement Procedure

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> The antenna gain is measured with StarMIMO multi-probe measurement system.



(References: MVG, StarMIMO multi-probe measurement system datasheet, 2014)

2. Test Equipment and Measurement Software

Test Equipment

Used	Control No.	Equipment Description	Model No.	Serial No.	Manufacturer	Cal. Interval	Last Cal.	Remark
Y	-	Multi-Probe Measurement System	StarMIMO	1101232-1346	MVG	12 months	2023.09.24	
Y	M1062	ENA Network Analyzer	E5071C	MY46101377	Keysight Technologies	12 months	2023.07.07	
Y	A5062	Dual-Ridge Horn Antenna (0.4-6.0 GHz)	SH400-198	33104416	MVG	12 months	2023.05.13	Reference Antenna
The calibration is valid until the end of the expiration month.								

Measurement Software

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Used	Control No.	Software Description	Model No.	Version	Manufacturer	Remark
Y	-	Automated Antenna and OTA Measurement Software Suite	MVG WaveStudio	22.1.7	MVG	
Υ	-	Near-Field to Far-Field Transformation Software	MV-Sphere	2.3.27	MVG	

3. Antenna Under Test

Antenna 1

Antenna Model Name:
Antenna Type:
Manufacturer:
Input Impedance:

ANTENNA L Monopole Goertek Inc. 50 ohm

Antenna 2

Antenna Model Name:	ANTENNA R
Antenna Type:	Monopole
Manufacturer:	Goertek Inc.
Input Impedance:	50 ohm



4. Antenna Gains

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Antenna 1

Date of Testing: Tested Personnel: Temperature: Relative Humidity:	Novemb Yuki Fur 22.4 deg 57.4 %	November 13, 2023 Yuki Furuse 22.4 deg.C 57.4 %		
Antenna	Frequency (MHz)	Peak Gain (dBi)	Remark	
Antenna 1	2400	-6.86		
	2440	-6.64	* 2.4 GHz peak	
	2480	-6.68		

Antenna 2 Date of Testing: November 13, 2023 Tested Personnel: Yuki Furuse Temperature: 22.4 deg.C Relative Humidity: 57.4 % Antenna Peak Gain Remark Frequency (MHz) (dBi) Antenna 2 2400 -7.20 2440 -6.74 * 2.4 GHz peak 2480 -7.34

Considering variation, Antenna gain specification is -4.5dBi.

Antenna 1 (1/2)



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Antenna 1 (2/2)





Antenna 2 (1/2)



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Antenna 2 (2/2)





Appendix. 1. Measurement Procedure

The antenna gain is measured with StarMIMO multi-probe measurement system.



(References: MVG, StarMIMO multi-probe measurement system datasheet, 2014)

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