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FCC EVALUATION REPORT FOR CERTIFICATION

Project No. : NK-26-R-029**Dates of receipt :** May 28, 2026**Applicant :** Linkplay Technology Inc
3012 Scott Blvd, Santa Clara, CA95054
USA**Dates of Issue :** June 05, 2026**Test Site :**
NEMKO KOREA CO., LTD.**Attn. :** Mr. Henry Jeong**FCC ID:**

2BABF-BAR001

Applicant :

Linkplay Technology Inc

Brand Name**Model:**

BAR001

Variant Model:

-

EUT Type:

WiiM Bar

Date of Test:

January 19, 2026 ~ January 27, 2026

Applied Standard:

FCC Title 47 Part 1.1310

KDB 447498 D01 General RF Exposure Guidance v06

The measurement evaluations presented in this report are based on the maximum performance of the tested device(s), which has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/ general population exposure federal limits in 47CFR § 1.1310 and has been tested in accordance with the measurement procedures specified within this report.

Tested By : Heesu Ahn
Test EngineerReviewed By : Hoonpyo Lee
Technical Manager

Revision History

Rev.	Issue Date	Revisions	Revised By
00	June 05, 2026	Initial issue	Heesu Ahn

TABLE OF CONTENTS

1. INTRODUCTION	4
1.1 Test facility	4
1.2 Accreditation and listing.....	4
2. EUT INFORMATION.....	5
2.1 EUT Information	5
3. TEST DATA.....	6
3.1 RF Exposure Limit.....	6

1. INTRODUCTION

1.1 Test facility

These measurement tests were conducted at **NEMKO KOREA CO., LTD.**

The site address :

159, Osan-ro, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do, KOREA

1.2 Accreditation and listing

Accreditation type		Accreditation number
	CAB Accreditation for DOC	Designation No. KR0026
	KOLAS Accredited Lab. (Korea Laboratory Accreditation Scheme)	Registration No. KT155
	Canada IC Registered site	Site No. 2040E
	VCCI registration site(RE/CE/Telecom CE)	Member No. 2118
	EMC CBTL	TL124
	KCC(RRL)Designated Lab.	Registration No. KR0026

2. EUT INFORMATION

2.1 EUT Information

EUT Type	WiiM Bar
Model Name	BAR001
Variant Model Name	-
Brand Name	WiiM
Peak Output Power (Conducted)	Bluetooth : 11.04 dBm 2.4 GHz WLAN : 22.04 dBm 5 GHz WLAN : 19.38 dBm 6 GHz WLAN : 16.33 dBm
Antenna Gain (peak)	2.4 GHz : 1.54 dBi 5 GHz : 2.38 dBi
Antenna Setup	2 TX / 2 RX
EUT Rated Voltage	AC 100 - 240 V, 50/60 Hz
EUT Test Voltage	AC 120 V, 60 Hz
Remarks	-

3. TEST DATA

3.1 RF Exposure Limit

According to FCC 1.1310 :

The criteria listed in the following table shall be used to evaluate the Environmental of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm ²)	(Minutes)
(i) Limits For Occupational / Controlled Exposure				
0.3 ~ 3.0	614	1.63	*(100)	≤6
3.0 ~ 30	1842/f	4.89/f	*(900/f ²)	<6
30 ~ 300	61.4	0.163	1.0	<6
300 ~ 1,500			f/300	<6
1,500 ~ 100,000			5	<6
(ii) Limits For General Population / Uncontrolled Exposure				
0.3 ~ 1.34	614	1.63	*(100)	<30
1.34 ~ 30	824/f	2.19/f	*(180/f ²)	<30
30 ~ 300	27.5	0.073	0.2	<30
300 ~ 1,500			f/15	<30
1,500 ~ 100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Friis formula

$$\text{Friis transmission formula : } P_d = (P_{out} * G) / (4 * \pi * r^2)$$

$$r = \sqrt{(P_{out} * G) / 4 * \pi * P_d)}$$

Where

P_d = Power density in mW / cm²

P_{out} = Output power to antenna in mW

G = Gain of antenna in linear scale

π = 3.1416

r = Distance between observation point center of radiator in cm

Pd is the limit of MPE, $1 \text{ mW} / \text{cm}^2$. If we know Maximum Gain of the antenna and the total power input to the antenna, through the calculation, we will know the Maximum distance r where the MPE limit is reached and Power density at prediction frequency.

Test Result :**1. Bluetooth**

Maximum Conducted output power(Tune-up):	9.50 (dBm)
Maximum Conducted output power(Tune-up):	8.91 (mW)
Antenna gain(typical):	1.54 (dBi)
Maximum antenna gain:	1.43 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	2402 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm ²)

Power density at prediction frequency : 0.002528 (mW/cm²)

Test result: PASS

2. WLAN 2.4 GHz

Maximum Conducted output power(Tune-up):	20.50 (dBm)
Maximum Conducted output power(Tune-up):	112.20 (mW)
Antenna gain(typical):	1.54 (dBi)
Maximum antenna gain:	1.43 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	2462 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm ²)

Power density at prediction frequency : 0.031822 (mW/cm²)

Test result: PASS

3. WLAN 5 GHz

Maximum Conducted output power(Tune-up):	17.00 (dBm)
Maximum Conducted output power(Tune-up):	50.12 (mW)
Antenna gain(typical):	2.38 (dBi)
Maximum antenna gain:	1.73 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	5230 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm ²)

Power density at prediction frequency : 0.017248 (mW/cm²)

Test result: PASS

4. WLAN 6 GHz

Maximum Conducted output power(Tune-up):	13.50 (dBm)
Maximum Conducted output power(Tune-up):	22.39 (mW)
Antenna gain(typical):	2.83 (dBi)
Maximum antenna gain:	1.92 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	6465 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm ²)

Power density at prediction frequency : 0.008545 (mW/cm²)

Test result: PASS

Conclusion :

The test result shows that BAR001 is compliance with the exposure limit in 47 CFR §1.1310.

END REPORT