



RF EXPOSURE REPORT

Applicant	:	Harman International Industries, Inc.		
Address of Applicant		8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES		
Manufacturer		Harman International Industries, Inc.		
Address of Manufacturer		8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES		
Equipment under Test	••	Multi-Channel Soundbar with wireless subwoofer		
Model No.	6.	BAR 500MK2 SUB		
FCC ID		APIBAR500SUB2		
Test Standard(s)		KDB447498 D01 General RF Exposure Guidance v06		
Report No.	:	DDT-RE24111413-2E24		
Issue Date	••	2025/02/28		
Issue By		Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808		



Table of Contents

1.	General Test Information	5
1.1.	Description of EUT	5
1.2.	Accessories of EUT	5
1.3.	Test laboratory	5
2.	RF Exposure evaluation for FCC	6
2.1.	Assessment procedure	6
2.2.	Assess result	7

Test Report Declare

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Model No.		BAR 500MK2 SUB		
Manufacturer		Harman International Industries, Inc.		
Address of Manufacturer		8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES		

Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24111413-2E24		
Date of Receipt:	2024/11/18	Date of Test:	2024/11/18~2025/02/28

Created: Bobo Chen	Reviewed: Ella Gong	Approved: Damon Hu		
Bobo Chen	Ella Gong	Damon Mu		
2025/02/28	2025/02/28	2025/02/28		

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

TRF:RT-4-E-006 Page 3 of 7

Revision History

Rev.	Revisions	Issue Date	Revised By
	Initial issue ®	2025/02/28	8
	X	*	

TRF:RT-4-E-006 Page 4 of

1. General Test Information

1.1. Description of EUT

EUT Name		Multi-Channel Soundbar with wireless subwoofer
Model Number	:	BAR 500MK2 SUB
EUT Function Description	:	Please reference user manual of this device
Power Supply		AC 100-240V, 50/60Hz, 60W

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
AC cable	AC cable Harman		Length: 150cm
HDMI cable Harman		N/A	Length: 120cm, with two magnetic rings
Remote control Harman		N/A	N/A

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

TRF:RT-4-E-006 Page 5 of 7

2. RF Exposure evaluation for FCC

2.1. Assessment procedure

Requirement:

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic FieldStrength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time $ E ^2, H ^2 \text{ or S}$ (minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f)*	30	
30-300	27.5	0.073	0.2	30	
300-1500		Ωr.	F/1500	30	
1500-100000		10"	1.0	30	

Note: f= frequency in MHz; *Plane-wave equivalent power density

Calculation method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $S(mW/cm^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

TRF:RT-4-E-006

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.2. Assess result

Mode	Output power (dBm)	Output power (mW)	tune up power (dBm)	tune up power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
 .4GHz SRD	5.99	3.97	® 7	5.01	1.28	1.34	0.0013	[®] 1

Note1: The estimation distance is 20 cm

Conclusion: MPE evaluation required since transmitter power is below FCC threshold

End Report-

TRF:RT-4-E-006 Page 7 of 7