



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	:	3.1 CHANNEL SOUNDBAR WITH DOLBY ATMOS® AND WIRELESS SUBWOOFER
Model No.	:	CINEMA SB580MK2 SUB, CINEMA SB581MK2 SUB, CINEMA SB582MK2 SUB, CINEMA SB583MK2 SUB, CINEMA SB584MK2 SUB, CINEMA SB585MK2 SUB, CINEMA SB586MK2 SUB, CINEMA SB587MK2 SUB, CINEMA SB588MK2 SUB, CINEMA SB589MK2 SUB, CINEMA SB590MK2 SUB, CINEMA SB591MK2 SUB, CINEMA SB592MK2 SUB, CINEMA SB593MK2 SUB, CINEMA SB594MK2 SUB, CINEMA SB596MK2 SUB, CINEMA SB597MK2 SUB, CINEMA SB598MK2 SUB, CINEMA SB599MK2 SUB, CINEMA SB540MK2 SUB, CINEMA SB541MK2 SUB, CINEMA SB542MK2 SUB, CINEMA SB543MK2 SUB, CINEMA SB544MK2 SUB, CINEMA SB545MK2 SUB, CINEMA SB546MK2 SUB, CINEMA SB547MK2 SUB, CINEMA SB548MK2 SUB, CINEMA SB549MK2 SUB
FCC ID	:	APISB580SW2
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06
Report No.	:	DDT-RE26031216-2E13
Issue Date	:	2026/06/04
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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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-RE26031216-2E13		
Date of Receipt:	2026/03/16	Date of Test:	2026/03/16~2026/05/18

Created: Jacky Huang	Reviewed: Johnson Huang	Approved: Ella Gong
		
2026/05/19	2026/06/04	2026/06/04

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.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2026/06/04	Ella Gong

1. General Test Information

1.1. Description of EUT

EUT Name	: 3.1 CHANNEL SOUNDBAR WITH DOLBY ATMOS® AND WIRELESS SUBWOOFER
Model Number	: CINEMA SB580MK2 SUB, CINEMA SB581MK2 SUB, CINEMA SB582MK2 SUB, CINEMA SB583MK2 SUB, CINEMA SB584MK2 SUB, CINEMA SB585MK2 SUB, CINEMA SB586MK2 SUB, CINEMA SB587MK2 SUB, CINEMA SB588MK2 SUB, CINEMA SB589MK2 SUB, CINEMA SB590MK2 SUB, CINEMA SB591MK2 SUB, CINEMA SB592MK2 SUB, CINEMA SB593MK2 SUB, CINEMA SB594MK2 SUB, CINEMA SB596MK2 SUB, CINEMA SB597MK2 SUB, CINEMA SB598MK2 SUB, CINEMA SB599MK2 SUB, CINEMA SB540MK2 SUB, CINEMA SB541MK2 SUB, CINEMA SB542MK2 SUB, CINEMA SB543MK2 SUB, CINEMA SB544MK2 SUB, CINEMA SB545MK2 SUB, CINEMA SB546MK2 SUB, CINEMA SB547MK2 SUB, CINEMA SB548MK2 SUB, CINEMA SB549MK2 SUB
Difference of model number	: Above models are identical in schematic and structure, only the model number are different, therefore the test performed on the model: CINEMA SB580MK2 SUB
EUT Function Description	: Please reference user manual of this device
Power Supply	: AC 100-240V~ 50/60Hz 25W
Antenna Type	: PCB antenna
Max Antenna Gain (dBi)	: 2.43
Radio Specification	: Bluetooth LE
Operation Frequency	: 2402 MHz to 2480 MHz
Modulation	: GFSK

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	Harman	N/A	Length: 1.5m

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

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 Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² 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			F/1500	30
1500-100000			1.0	30

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

Calculation method

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

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:

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

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)	Tune up power (dBm)	Tune up power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
Bluetooth LE	11.30	12	15.849	2.43	1.750	0.006	1

Note: The estimation distance is 20 cm

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

-----End Report-----