# 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.** | : | BAR 700MK2 SURROUND,<br>BAR 800MK2 SURROUND |
| **FCC ID** | : | APIBAR800SUR2 |
| **Test Standard(s)** | : | KDB447498 D01 General RF Exposure Guidance v06 |
| **Report No.** | : | DDT-RE24111416-1E24 |
| **Issue Date** | : | 2025/03/12 |
| **Issue By** | : | Guangdong Dongdian Testing Service Co., Ltd.<br>Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808 |

REPORT

# Table of Contents

# Test Report Declare

| | | |
|---|---|---|
| **Applicant** | : | Harman International Industries, Inc. |
| **Address of Applicant** | : | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES |
| **Equipment under Test** | : | Multi-Channel Soundbar with wireless subwoofer |
| **Model No.** | : | BAR 700MK2(For Soundbar), BAR 700MK2 SURROUND(For Detachable wireless speaker), BAR 700MK2 SUB(For Wireless Subwoofer);BAR 800MK2 SURROUND |
| **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-RE24111416-1E24 | | |
| **Date of Receipt:** | 2024/11/10 | **Date of Test:** | 2024/11/10 - 2025/02/28 |

| Created: Jacky Huang | Reviewed: Ella Gong | Approved: Damon Hu |
|---|---|---|
| Jacky Huang | Ella Gong | Damon Hu |
| 2025/03/02 | 2025/03/12 | 2025/03/12 |

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

| Rev. | Revisions | Issue Date | Revised By |
|---|---|---|---|
| --- | Initial issue | 2025/03/12 | |
| | | | |

# 1. General Test Information

## 1.1. Description of EUT

| | | |
|---|---|---|
| EUT Name | : | Multi-Channel Soundbar with wireless subwoofer |
| Model Number | : | BAR 700MK2 SURROUND<br>BAR 800MK2 SURROUND |
| Difference of model number | : | "BAR 800MK2 SURROUND " and "BAR 700MK2 SURROUND " are just different models. The appearance, circuit design, layout, components used and internal wiring are the same, we chose the model "BAR 800MK2 SURROUND " as a representative model for compliance testing. |
| EUT Function Description | : | Please reference user manual of this device |
| Power Supply | : | Input: 5V ⎓ 2A (via type-C port) or Rechargeable Li-ion Battery: 3.635Vdc, 3283mAh, 11.94Wh |
| Antenna Type | : | PCB antenna |
| Max Antenna Gain (dBi) | : | 2.44 |

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 |
|---|---|---|---|
| / | / | / | / |

## 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

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

## 2.2. Assess result

**Manufacturing Tolerance:**

| Mode | Antenna | Frequency [MHz] | Target (dBm) | Tolerance ±(dB) |
|---|---|---|---|---|
| 2.4G SRD (Peak) | Ant1 | 2402 | 4.06 | 1 |
| | | 2441 | 4.24 | 1 |
| | | 2480 | 4.78 | 1 |

**Estimation Result:**

Worse case is as below: [2480 MHz, 5.78 dBm, (3.78 mW) output power]

(3.78/5) ·[√2.480(GHz)] = 1.19< 3.0 for 1-g SAR

Then SAR evaluation is not required.

**----------End Report----------**