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	**:**	Bluetooth Speaker
Model No.	**:**	PARTYBOX710
FCC ID	**:**	APIJBLPB710
Test Standard(s)	**:**	KDB447498 D01 General RF Exposure Guidance v06
Report No.	**:**	DDT-RE24121026-1E06
Issue Date	**:**	2025/01/16
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

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	:	Bluetooth Speaker
Model No.	:	PARTYBOX710
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-RE24121026-1E06		
Date of Receipt:	2024/12/10	**Date of Test:**	2024/12/10~2025/01/27

Created by: Bobo Chen	Reviewed by: Ella Gong	Approved by: Damon Hu
Bobo Chen	Ella Gong	Damon Hu
2024/12/27	2025/01/16	2025/01/16

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	2025/01/16	

1. General Test Information

1.1. Description of EUT

EUT Name	:	Bluetooth Speaker
Model Number	:	PARTYBOX710
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	AC 100-240V, 50/60Hz 160W
Hardware Version	:	400403-062142
Software Version	:	V1.37.0

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. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

"☒" means to be chosen or applicable; "□" means don't to be chosen or not applicable; This note applies to entire report.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
AC Cable	Harman	N/A	Length: 2.0m, unshielded

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-20155, 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 FieldStrength (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

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

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:

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

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

Manufacturing Tolerance

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	9	9	9
Tolerance ±(dB)	1	1	1
π/4DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	9	9	9
Tolerance ±(dB)	1	1	1
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	9	9	9
Tolerance ±(dB)	1	1	1
BLE (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	9	9	9
Tolerance ±(dB)	1	1	1

Estimation Result

Mode	F (GHz)	Distance (mm)	RF output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW /cm^2)	MPE Test Exclusion Threshold (mW/cm2)	MPE Test Exclusion
			dBm	mW					
BDR	2.450	20	9	7.94	0.73	1.18	0.002	1	Yes
EDR	2.450	20	9	7.94	0.73	1.18	0.002	1	Yes

Note: The estimation distance is 20cm

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

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