

Report No.: DDT-R20120228-1E14

Issued Date: Apr. 10, 2021

RF EXPOSURE REPORT

FOR

Applicant		Harman International Industries, Inc.	
Address	•	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES	
Equipment under Test	••	Gaming Wireless Headphone	
Model No.		QUANTUM350WIRELESS	
Trade Mark	••	JBL	
FCC ID		APIJBLQ350WL	
Manufacturer	•	Harman International Industries, Inc.	
Address		8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES	

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,

Dongguan City, Guangdong Province, China, 523808

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TEST REPORT DECLARE

Applicant	:	Harman International Industries, Inc.		
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Equipment under Test	:	Gaming Wireless Headphone		
Model No.	:	QUANTUM350WIRELESS		
Trade Mark	:	JBL		
Manufacturer		Harman International Industries, Inc.		
Address	ŀ	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES		

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

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

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-R20120228-1E14		
Date of Receipt:	Feb. 09, 2021	Date of Test:	Feb. 09, 2021 ~ Apr. 10, 2021

Prepared By:

Ella Gong/Engineer

Ella Gong

Damon Hu/EMC Manager

Approved By

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

Revision History

Rev.	Revisions	(R)	Issue Date	Revised By
	Initial issue	Ar	Apr. 10, 2021	ar
	OP'	DIV.	DR	<i>J</i> *

1. General information

1.1. Description of Equipment

EUT* Name	:	Gaming Wireless Headphone		
Model Number	:	QUANTUM350WIRELESS		
EUT Function Description	:	Please reference user manual of this device		
Power Supply	:	DC 5V from external AC Adapter DC 3.7V Polymer Li-ion built-in battery	(8)	
Radio Specification		2.4G Wireless transmitter		
Operation Frequency	:	2402 MHz - 2480 MHz		
Modulation	:	GFSK		
Data Rate	:	1Mbps, 2Mbps		
Antenna Type	:	FPC antenna, maximum PK gain: 4.99 dBi		
Serial Number	. 0000099 for conductive 0000039 for radiation			

Note: EUT is the ab. of equipment under test.

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, 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, G-20118

2. RF Exposure evaluation for FCC

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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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

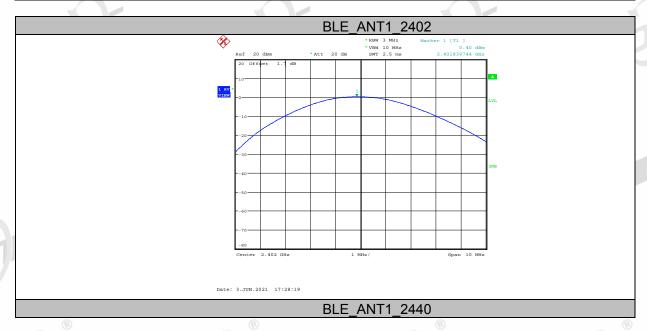
The result is rounded to one decimal place for comparison

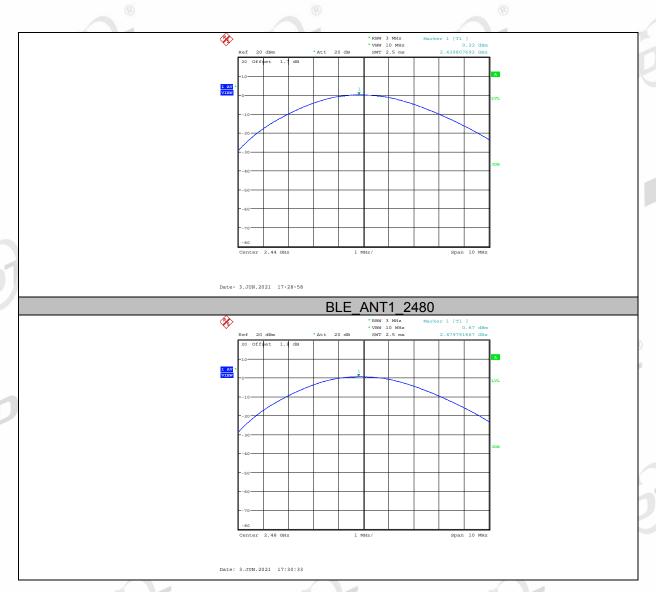
2.1. Test result

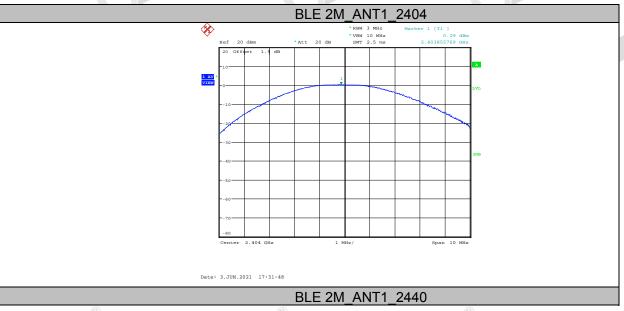
Mode	Freq. (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
	2402	0.4	30	® Pass
1M	2440	0.22	30	Pass
	2480	0.67	30	Pass
	2404	0.29	30	Pass
2M	2440	0.21	30	Pass
	2478	0.51	30	Pass

Manufacturing Tolerance

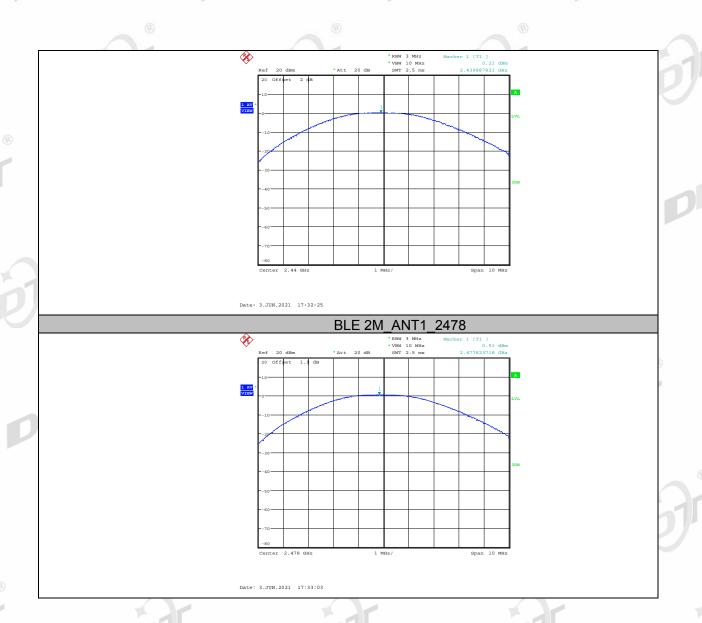
1M (Average)						
Channel	Channel 0	Channel 39	Channel 78			
Target (dBm)	0 ®	0 ®	0			
Tolerance ±(dB)	1	1	1			
2M (Average)						
Channel	Channel 0	Channel 39	Channel 78			
Target (dBm)	0	0	0			
Tolerance ±(dB)	1 ®	1	® 1			







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3. Estimation Result

Worse case is as below: [2480MHz, 1 dBm, 1.259 mW) output power]

 $(1.259/5)\cdot[\sqrt{2.480(GHz)}] = 0.40 < 3.0 \text{ for } 1-g \text{ SAR}$

Then SAR evaluation is not required

END OF REPORT