

■ **Report No.:** DDT-R19091610-1E9

■Issued Date: Oct. 25, 2019

RF EXPOSURE REPORT

FOR

Applicant	•	Dongguan Laccess Electronic Technology Co., Ltd.	
Address	• •	No. 2 Xiangyang Road, Tian Xin Huaxing Industrial Area, Qiaotou town, Dongguan, China	
Equipment under Test	••	WIRELESS HEADPHONES	
Model No. ONG D		HA-S22W, HA-S23W	
Trade Mark		JVC	
FCC ID	••	2AD8P-HAS2223	
IC		12709A-HAS2223	
Manufacturer	•	Dongguan Laccess Electronic Technology Co., Ltd.	
Address		No. 2 Xiangyang Road, Tian Xin Huaxing Industrial Area, Qiaotou town, Dongguan, China	

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	:	Dongguan Laccess Electronic Technology Co., Ltd.	
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Equipment under Test	:	WIRELESS HEADPHONES	
Model No.		HA-S22W, HA-S23W	
Trade mark	:	JVC	
Manufacturer	:	Dongguan Laccess Electronic Technology Co., Ltd.	
Address No. 2 Xiangyang Road, Tian Xin Huaxing Industrial Area, Qiatown, Dongguan, China		No. 2 Xiangyang Road, Tian Xin Huaxing Industrial Area, Qiaotou town, Dongguan, China	

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-R19091610-1E9		
Date of Receipt:	Oct. 09, 2019	Date of Test:	Oct. 09, 2019 ~ Oct. 25, 2019

Prepared By:

Sam Li/Engineer

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	Issue Date	Revised By
	Initial issue	Oct. 25, 2019	

1. General information

1.1. Description of Equipment

EUT* Name	:	WIRELESS HEADPHONES	
Model Number	:	HA-S22W, HA-S23W	
Difference of model number	:	HA-S22W, HA-S23W are all the same except for the shell color, so the test is performed on HA-S22W.	
EUT function description	:	Please reference user manual of this device	
Power supply		DC 5V by USB DC 3.7V by Polymer Li-ion built-in battery	
Radio Specification	:	Bluetooth 5.0	
Operation frequency	:	2402 MHz-2480 MHz	
Modulation	:	GFSK, π/4-DQPSK, 8DPSK	
Data rate	:	1 Mbps, 2 Mbps, 3 Mbps	
Antenna Type	:	Integral PCB antenna, maximum PK gain: 0 dBi	
Sample Type	:	Series production	

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

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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

Manufacturing Tolerance

GFSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	-3	-5	-6				
Tolerance ±(dB)	1	1	1				
π/4DQPSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	-4	-6	-4				

Tolerance ±(dB)	1	1	1				
8DPSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	-1	-3	-3				
Tolerance ±(dB)	1	1	1				

Estimtion Result

Worse case is as below: [2402MHz, -1.16 dBm, 0.77 mW) output power]

 $(0.77/5) \cdot [\sqrt{2.402(GHz)}] = 0.239 < 3.0 \text{ for } 1-g \text{ SAR}$

Then SAR evaluation is not required

END OF REPORT