

RF EXPOSURE REPORT

FOR

Applicant	:	ION Audio, LLC
Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.
Equipment under Test	:	BT water-resistant speaker system
Model No.	:	Pathfinder, Pathfinder 2, iPA105B
Project Code	:	iPA105B
Trade Mark	:	ION
FCC ID	:	2AB3E-IPA105B
Manufacturer	:	ION Audio, LLC
Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.

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

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

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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-R17111004-1E4		
Date of Receipt:	Nov. 29, 2017	Date of Test:	Nov. 29, 2017 ~ Jan. 05, 2018

Prepared By:

Sam Li

Sam Li/Engineer

Approved By:



Kevin Feng/EMC Manager

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	Jan. 05, 2018	

1. General information

1.1. Description of Equipment

EUT* Name	: BT water-resistant speaker system
Model Number	: Pathfinder, Pathfinder 2, iPA105B
Difference of model number	: All models are identical, except the model number and appearance, all tests are performed on model Pathfinder 2.
EUT function description	: Please reference user manual of this device
Power supply	: AC 100-240V 50/60Hz : DC 12V built-in battery
Radio Specification	: Bluetooth V4.2 (only BDR/EDR)
Operation frequency	: 2402MHz -2480MHz
Modulation	: GFSK, $\pi/4$ QPSK, 8-DPSK
Data rate	: 1Mbps, 2Mbps, 3Mbps
Antenna Type	: Integrated antenna, maximum PK gain: 2.3dBi
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 v05

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

$f(\text{GHz})$ 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

Worse case is as below: [2480MHz, 4.53dBm (2.84mW) output power]

$(2.84/5) \cdot [\sqrt{2.480(\text{GHz})}] = 0.89 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

END OF REPORT