

REPORT

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. UNG UI	H	EXPLORER OUTBACK 2, iPA100	
Project Code	:	iPA100	
Trade Mark	:	ION	
FCC ID	:	2AB3E-IPA100	
IC	•	10541A-IPA100	
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 City, Guangdong Province, China, 523808
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TEST REPORT DECLARE

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Trade mark	:	ION
Manufacturer	:	ION Audio, LLC
Address	•	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.

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-R17111004-1E2		
Date of Receipt:	Nov. 29, 2017	Date of Test:	Nov. 29, 2017 ~ Jan. 05, 2018

Prepared By:

Som Li

Appro lager

Sam Li/Engineer

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	:	EXPLORER OUTBACK 2, iPA100
Difference of model number	:	All models are identical, except the model number, all tests are performed on model Explorer Outback 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, π/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

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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 \leq 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

Worse case is as below: [2480MHz, 5.56dBm (3.59mW) output power] (3.59/5) \cdot [$\sqrt{2.480(GHz)}$]= 1.13<3.0 for 1-g SAR Then SAR evaluation is not required

END OF REPORT