

■ Report No.: DDT-R21032416-2E05

■Issued Date: Jun. 04, 2021

RF EXPOSURE REPORT

FOR

| Applicant | : | ION Audio, LLC | |
|----------------------|------|---|--|
| Address | : | 200 Scenic View Drive, Cumberland, RI 02864 U.S.A. | |
| Equipment under Test | : | Complete High-Power Bluetooth Speaker System | |
| Model No. | • | iPA114, iPA114****. PRO GLOW 1500, PRO GLOW******** | |
| Trade Mark | • | | |
| FCC ID | • // | 2AB3E-IPA114-1 | |
| Manufacturer | 4 | 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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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-R21032416-2E05 | | |
|------------------|--------------------|---------------|-------------------------------|
| Date of Receipt: | Mar. 25, 2021 | Date of Test: | Mar. 25, 2021 ~ Jun. 03, 2021 |

Prepared By:

Sam Li/Engineer

Approved By:

Damon Hu/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. | v. Revisions ® | | Issue Date | Revised By |
|------|----------------|-----|---------------|------------|
| | Initial issue | ar | Jun. 04, 2021 | 1 |
| | DIE | DIE | DR | / |

1. General Information

1.1. Description of equipment

| EUT* Name | : | : Complete High-Power Bluetooth Speaker System | | |
|---|--|---|--|--|
| Model Number | : iPA114, iPA114****. PRO GLOW 1500, PRO GLOW******* | | | |
| Model Differences | | iPA114, iPA114****. PRO GLOW 1500, PRO GLOW*************("*" can be "0-9", "a-z", "A-Z", "blank" or "-" for marketing purpose) All models are identical except the appearance and model number, therefore the test performed on the model iPA114. | | |
| EUT function description | 0 | Please reference user manual of this device | | |
| Power Supply | | 100-120V~, 60Hz 220-240V~, 50Hz | | |
| Radio Specification | : | Bluetooth V5.1 | | |
| 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, ma | | Integral PCB antenna, maximum PK gain: -0.58 dBi | | |
| Serial Number | ŀ | N/A | | |
| | | | | |

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

2.1. 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

(B) Limits for General Population / Uncontrolled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (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 | |

 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

 1500-100,000
 1.0
 30

Note: f = frequency in MHz; *Plane-wave equivalent power density

2.2. Calculation method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 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:

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

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.

2.3. Estimation result

| Mode | PK Output power (dBm) | Output power (mW) | Antenna Gain (dBi) | Antenna Gain (linear) | MPE Values (mW/cm ² | MPE Limit (mW/cm ² |
|---------------------|-----------------------------|-------------------------|--------------------------|-----------------------------|--------------------------------------|-------------------------------------|
| Bluetooth Max power | 3.15 | 2.07 | -0.58 | 0.87 | 0.00036 | 1 |
| BLE Max power | 2.40 | 1.74 | -0.58 | 0.87 | 0.00030 | 1 |

Note: The estimation distance is 20 cm

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

END OF REPORT