

RF EXPOSURE REPORT

FOR

| | | |
|-----------------------------|---|-------------------------------------------------------|
| Applicant | : | ION Audio, LLC |
| Address | : | 200 Scenic View Drive, Cumberland, RI 02864 U.S.A. |
| Equipment under Test | : | Battery Powered Jobsite Speaker w/ Tool Holders |
| Model No. | : | GARAGE ROCKER, iPA108 |
| Project Code | : | iPA108 |
| Trade Mark | : | ION |
| FCC ID | : | 2AB3E-IPA108 |
| 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

Tel: +86-0769-89201699, **E-mail:** ddt@dgddt.com, <http://www.dgddt.com>

REPORT

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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-R18020601-1E3 | | |
| Date of Receipt: | Apr. 03, 2018 | Date of Test: | Apr. 03, 2018 ~ May 04, 2018 |

Prepared By:

Sam Li

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. | Revisions | Issue Date | Revised By |
|------|---------------|--------------|------------|
| --- | Initial issue | May 04, 2018 | |
| | | | |

1. General information

1.1. Description of Equipment

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| EUT* Name | : Battery Powered Jobsite Speaker w/ Tool Holders |
| Model Number | : GARAGE ROCKER, iPA108 |
| Difference of model number | : All models are identical except the appearance and model number, there for the test performed on the model GARAGE ROCKER. |
| EUT function description | : Please reference user manual of this device |
| Power supply | : AC 100-240V, 50/60Hz : DC 12V from built-in battery |
| Radio Specification | : Bluetooth V4.2 |
| Operation frequency | : 2402MHz -2480MHz |
| Modulation | : GFSK, $\pi/4$ -DQPSK, 8DPSK |
| Data rate | : 1Mbps, 2Mbps, 3Mbps |
| Antenna Type | : Integral PCB antenna, maximum PK gain: 2dBi |
| 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 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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ 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: [2402MHz, -1.46dBm (0.71mW) output power]

$(0.71/5) \cdot [\sqrt{2.402(\text{GHz})}] = 0.220 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

END OF REPORT