

■Report No.: DDT-R18060102-1E8

■Issued Date: Sep. 03, 2018

RF EXPOSURE REPORT

FOR

Applicant		ION Audio, LLC			
Address	•	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.			
Equipment under Test	• •	Wireless Turntable with Built-in Stereo Speakers			
Model No. UNG D		PREMIER LP T IN G			
Project Code		iT94			
Trade Mark	:	ION			
FCC ID	/:	2AB3E-IT94			
IC	•	10541A-IT94			
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: +86-0769-38826678, E-mail: ddt@dgddt.com, http://www.dgddt.com



TABLE OF CONTENTS

	Test report declares	3
1.	General information	
1.1.	Description of Equipment	
1.2.	Assess laboratory	5
2.	RF Exposure evaluation for FCC	5
2.1.	Requirement	5
2.2.	Calculation Method	6
23	Estimation Result	6

TEST REPORT DECLARE

Applicant	:	ION Audio, LLC			
Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.			
Equipment under Test	:	Wireless Turntable with Built-in Stereo Speakers			
Model No.	:	PREMIER LP			
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-R18060102-1E8		
Date of Receipt:	Jun. 26, 2018	Date of Test:	Jun. 26, 2018 ~ Aug. 24, 2018

Prepared By:

Sam Li/Engineer

Damon Hu/EMC Manager

Approved

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	Sep. 03, 2018	

1. General information

1.1. Description of Equipment

EUT* Name	:	: Wireless Turntable with Built-in Stereo Speakers		
Model Number	+	PREMIER LP		
EUT function description	:	Please reference user manual of this device		
Power supply	:	DC 12V from external AC Adapter		
Radio Specification	:	Bluetooth V3.0		
Operation frequency	:	2402MHz-2480MHz		
Modulation	:	GFSK, π/4-DQPSK, 8DPSK		
Data rate	:	1Mbps, 2Mbps, 3Mbps		
Antenna Type	:	Integral PCB antenna, maximum PK gain: 0dBi		
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

Tel: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com

2. RF Exposure evaluation for FCC

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 0.2m 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)	rength (E) Strength (H) Po		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	
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=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

2.3. Estimation Result

	PK Output	Output	Antenna	MPE	MPE
Mode	power	power	Gain	Values	Limit
	(dBm)	(mW)	(dBi)	(mW/cm ²)	(mW/cm ²)
BT	1.51	1.42	0	0.0006	1

Note: The estimation distance is 20cm

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold

END OF REPORT