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IEEE C95.1 KDB 447498 D03

47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091

RF EXPOSURE REPORT

For

Fully Automatic Belt-Drive Wireless Streaming Turntable

Model: PRO200BT, iT96

Trade Name:



Issued to

ION Audio, LLC 200 Scenic View Drive, Cumberland, RI 02864, U.S.A.

Issued By

Compliance Certification Services Inc.

Tainan Laboratory
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Issued Date: February 13, 2019

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部分複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By Sunny Chang Sunny Chang	
00	November 02, 2018	Initial Issue	ALL		
01	February 13, 2019	See the following note rev.01	Page 5		

Note:

Rev.00 Issue Date: November 02, 2018

Original Report

Rev.01 Issue Date: February 13, 2019

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1. TEST RESULT CERTIFICATION

We hereby certify that:

The equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirement of the applicable standards. The test record, data evaluation and Equipment under Test (EUT) configurations represented herein are true and accurate accounts of the measurement of the sample's RF characteristics under the conditions specified in this report.

APPLICABLE STANDARDS					
STANDARD	TEST RESULT				
IEEE C95.1 2005					
KDB 447498 D03	No non-compliance noted				
47 C.F.R. Part 1, Subpart I, Section 1.1310	in the man de manda mata				
47 C.F.R. Part 2, Subpart J, Section 2.1091					

Approved by:

Reviewed by:

Jeter Wu Assistant Manager **Eric Huang**Section Manager



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2. LIMIT

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

3. EUT SPECIFICATION

EUT	Fully Automatic Belt-Drive Wireless Streaming Turntable						
Model	PRO200BT, iT96						
Trade Name		,					
Model Discrepancy	N/A						
Frequency band (Operating)	 ■ 802.11b/g/n HT20: 2412MHz ~ 2462MHz 802.11n HT40: 2422MHz ~ 2452MHz ☑ Others 2402MHz ~ 2480MHz (BT3.0) 						
Device category	☐ Portable (<20cm separation) ☐ Mobile (>20cm separation) ☐ Others						
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2) ☐ General Population/Uncontrolled exposure (S=1mW/cm2)						
Antenna Specification	PIFA Antenna / Gain:	2.04 dBi (Numerio	c gain: 1.60) worst				
Maximum Average output power	GFSK: 8-DPSK	1.237 dBm -1.164 dBm	(1.437 mW) (0.847 mW)				
Maximum Tune up Power	GFSK: 8-DPSK:	1.5 dBm -1 dBm	(1.413 mW) (0.794 mW)				
Evaluation applied	✓ MPE Evaluation*✓ SAR Evaluation✓ N/A						

Remark: To add model(iT96) all the same of the original model(PRO200BT), design, except for different models name and is just for the marketing purpose.



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4. TEST RESULTS

No non-compliance noted.

Calculation

Given

$$E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{377}$$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = *Distance in meters*

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377d^2}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and

$$d(cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$
 Equation 1

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$



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5. MAXIMUM PERMISSIBLE EXPOSURE

Substituting the MPE safe distance using d = 20 cm into Equation 1:

 $S = 0.000199 \times P \times G$

Where P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$

GFSK:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result
Mid	2441	1.413	1.60	20	0.0004	1	Pass

8-DPSK:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result
Mid	2441	0.794	1.60	20	0.0003	1	Pass