

## RF Exposure Report

**Report No.:** SA190119C10 R1

**FCC ID:** 2AA3N-TTR01

**Test Model:** PLTN-TTR01

**Received Date:** Jan. 19, 2019

**Test Date:** Jan. 31 ~ Mar. 15, 2019

**Issued Date:** May 08, 2019

**Applicant:** Peloton Interactive Inc.

**Address:** 125 W 25th Street, 11th Floor, New York, NY, 10001, USA

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

**FCC Registration /  
Designation Number:** 788550 / TW0003



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## Table of Contents

<b>Release Control Record</b> .....	<b>3</b>
<b>1 Certificate of Conformity</b> .....	<b>4</b>
<b>2 RF Exposure</b> .....	<b>5</b>
2.1 Limits for Maximum Permissible Exposure (MPE).....	5
2.2 MPE Calculation Formula .....	5
2.3 Classification .....	5
<b>3 Calculation Result of Maximum Conducted Power</b> .....	<b>6</b>

### Release Control Record

Issue No.	Description	Date Issued
SA190119C10	Original release	Mar. 18, 2019
SA190119C10 R1	Revised transmit power	May 08, 2019

## 1 Certificate of Conformity

**Product:** Peloton Console  
**Brand:** PELOTON  
**Test Model:** PLTN-TTR01  
**Sample Status:** Engineering sample  
**Applicant:** Peloton Interactive Inc.  
**Test Date:** Jan. 31 ~ Mar. 15, 2019  
**Standards:** FCC Part 2 (Section 2.1091)  
KDB 447498 D01 General RF Exposure Guidance v06  
IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** Celine Chou , **Date:** May 08, 2019  
Celine Chou / Senior Specialist

**Approved by :** Bruce Chen , **Date:** May 08, 2019  
Bruce Chen / Project Engineer

## 2 RF Exposure

### 2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

pi = 3.1416

r = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

### 3 Calculation Result of Maximum Conducted Power

#### For WLAN and BT

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WLAN, 1TX					
2412-2462	25.31	0.28	20	0.072	1
5180-5240	20.45	2.34	20	0.038	1
5260-5320	20.55	2.34	20	0.039	1
5500-5700	22.80	2.34	20	0.065	1
5745-5825	23.79	2.34	20	0.082	1
WLAN, 2TX					
2412-2462	26.30	3.29	20	0.181	1
5180-5240	20.60	5.35	20	0.078	1
5260-5320	20.65	5.35	20	0.079	1
5500-5700	23.95	5.35	20	0.169	1
5745-5825	26.51	5.35	20	0.305	1
BT LE					
2402-2480	6.96	-0.19	20	0.001	1
BT					
2402-2480	13.31	-0.19	20	0.004	1

Note:

2.4GHz: Directional Gain = 0.28dBi + 10log(2) = 3.29dBi

5GHz: Directional Gain = 2.34dBi + 10log(2) = 5.35dBi

#### For ANT+

Frequency Band (MHz)	Electric field (dBuV/m) @3m	Electric field (dBuV/m) @0.2m	EIRP Power (dBm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2402-2480	96.7	120.22	1.469	0.0003	1

Note: 96.7 + 20log(3/0.2) = 120.22dBuV/m

**Conclusion:**

The formula of calculated the MPE is:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$WLAN\ 2.4G + WLAN\ 5G = 0.181 / 1 + 0.305 / 1 = 0.4860$$

$$WLAN\ 5G + BT = 0.305 / 1 + 0.004 / 1 = 0.3090$$

$$WLAN\ 5G + ANT+ = 0.305 / 1 + 0.0003 / 1 = 0.3053$$

Therefore the maximum calculations of above situations are less than the "1" limit.

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