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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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^2)	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^2
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^2)	Limit (mW/cm^2)
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^2)	Limit (mW/cm^2)
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 + ...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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