RF EXPOSURE REPORT

Applicant	POWERPLUS MECHANICAL AND ELECTRICAL TECHNOLOGY CO LTD.
Address	No6, ZiTeng. Road, LiuHe Town, Taicang, Suzhou City, Jiangsu Province in China

Manufacturer or Supplier	POWERPLUS MECHANICAL AND ELECTRICAL TECHNOLOGY CO LTD.
Address	No6, ZiTeng. Road, LiuHe Town, Taicang, Suzhou City, Jiangsu Province in China
Product	Smart Bike Trainer
Brand Name	POWER+ POWER PLUS LIFE PLUS
Model	V3
Additional Model & Model Difference	N/A
Date of tests	May 11, 2022 ~ Jul. 11, 2022

☒ **FCC Part 2 (Section 2.1091)**
☒ **KDB 447498 D01**
☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the test requirement

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	Date: Aug. 03, 2022

Bureau Veritas Shenzhen Co., Ltd.
Dongguan Branch

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2205WDG0011	Original release	Aug. 03, 2022

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1. CERTIFICATION

PRODUCT:	Smart Bike Trainer
BRAND NAME:	**POWER +** POWER PLUS LIFE PLUS
MODEL NO.:	V3
ADDITIONAL MODEL:	N/A
FCC ID:	2A7X9-PP0001
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	POWERPLUS MECHANICAL AND ELECTRICAL TECHNOLOGY CO LTD.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

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2. RF EXPOSURE LIMIT

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

3. 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

4. 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**.

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5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Frequency Band	Antenna Gain (dBi)	Antenna Type
BT-LE	3.5	PCB Antenna
ANT+	3.5	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT-LE	2402-2480MHz	-2	+-2	-4	0
ANT+	2402-2480MHz	-1	+-2	-3	1

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT-LE	2480	-2.83
ANT+	2457	-1.81

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
BT-LE	0	3.5	20	0.000445	1.0
ANT+	1	3.5	20	0.000561	1.0

CONCLUSION:

The BLE, and ANT+ can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1

CPD = Calculation power density

LPD = Limit of power density

(0.000445/1)+(0.000561/1)= 0.001006<1, which is less than the "1" limit.

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