



中国认可
国际互认
检测
TESTING
CNAS L5313



DEKRA

RF Exposure Evaluation Declaration

Product Name : Wahoo GPS BIKE COMPUTER

Model No. : WFCC3

FCC ID : PADWF115

Applicant : Wahoo Fitness, LLC.

Address : 90 W. Wieuca Road, #110, Atlanta, Georgia, 30342
United States

Date of Receipt : Dec. 27, 2016

Test Date : Dec. 27, 2016~ Jan. 25, 2017

Issued Date : Feb. 07, 2017

Report No. : 16C2133R-RF-US- P20V01

Report Version : V 1.1

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNAS, TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing & Certification (Suzhou) Co., Ltd.

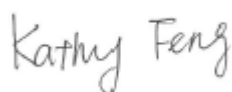
Test Report Certification

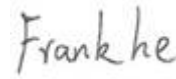
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Report No. : 16C2133R-RF-US-P20V01



Product Name : Wahoo GPS BIKE COMPUTER
Applicant : Wahoo Fitness, LLC..
Address : 90 W. Wieuca Road, #110, Atlanta, Georgia, 30342 United States
Manufacturer : GoerTek Inc.
Address : NO 268 DONGFANG RD NEW&HIGH-TECH INDUSTRY
DEVELOPMENT ZONE WEIFANG, SHANDONG 261031
Model No. : WFCC3
FCC ID : PADWF115
Brand Name : Wahoo Fitness
EUT Voltage : DC 3.8V
Test Voltage : AC120V/60Hz
Applicable Standard : KDB 447498D01V06
FCC Part1.1310
Test Result : Complied
Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006,
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FCC Registration Number: 800392

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1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

P_d = power density in mW/ cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product	:	Wahoo GPS BIKE COMPUTER
Test Item	:	RF Exposure Evaluation
Test Site	:	AC-6

● Antenna Information

Model No.	N/A					
Antenna manufacturer	HWCHAN					
Antenna Delivery	☒	1*TX+1*RX	☐	2*TX+2*RX	☐	3*TX+3*RX
Antenna technology	☒	SISO				
	☐	MIMO	☐	Basic		
			☐	CDD		
			☐	Sectorized		
			☐	Beam-forming		
Antenna Type	☐	External	☐	Dipole		
			☐	Sectorized		
	☒	Internal	☒	PIFA		
			☐	PCB		
			☐	Ceramic Chip Antenna		
			☐	Metal plate type F antenna		
Antenna Technology		Ant Gain (dBi)				
☒	SISO	3.09				

- Power Density:

Standalone modes:

Test Mode	Frequency Band (MHz)	Maximum Output Power (dBm)	Power Density at R = 20 cm (mW/cm ²)	Limit of Power Density S(mW/cm ²)
BT	2400~2483.5	14.07	0.0051	1
WIFI	2412~2462	27.22	0.1049	1

Simultaneous transmission:

Test Mode	Frequency Band (MHz)	Maximum Output Power (dBm)	Power Density at R = 20 cm (mW/cm ²)	Limit of Power Density S(mW/cm ²)
BT	2400~2483.5	14.07	0.0051	1
WIFI	2412~2462	27.22	0.1049	1
Simultaneous transmission power density			0.11	1

Note: The Simultaneous transmission power density is 0.11 mW/cm² for Wahoo GPS BIKE COMPUTER without any other radio equipment.

_____ The End _____