

RF Exposure Report

Project Number: 4076029

Report Number: 4076029EMC10

Revision Level: 0

Client: Social Bicycles Inc.

Equipment Under Test: Smart Bike Share System

Model: SB3

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498
FCC OET Bulletin 65 Supplement

Report issued on: 31 January 2017

Test Result: Compliant

Reported by:



Jeremy O. Pickens, Senior EMC Engineer

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or Testing done by SGS International Electrical Approvals in connection with distribution or use of the product described in this report must be approved by SGS international Electrical Approvals in writing.

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1 General Information

1.1 Client Information

Name: Social Bicycles Inc.
Address: 55 Prospect Street, Ste 304
City, State, Zip, Country: Brooklyn, NY 11201, USA

1.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

1.3 General Information of EUT

Type of Product: Smart Bike Share System
Model Number: SB3

Rated Voltage: 3.7 Vdc
Test Voltage: 3.7 Vdc
FCC Classification: DTS, PCB, DXX
Type: Pre Production

Sample Received Date: 05 December 2016

1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum conducted measured powers were considered.

2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 Test Method

Using the maximum conducted measured powers, the power density was calculated. Maximum antenna gain was assumed for this exercise.

2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density $EIRP_{avg}/(4\pi R^2)$ mW/cm ²	FCC mW/cm ²	% of Limit	Verdict
Type	MHz				dBm	mW					
WCDMA Band II	1850-1910	21.5	3.0	0.0	24.5	282	20	0.056	1.00	6%	Pass
WCDMA Band V	824-849	22.8	1.7	0.0	24.5	282	20	0.056	0.55	10%	Pass
GSM 850	824-849	28.8	1.7	0.0	30.5	1122	20	0.223	0.55	41%	Pass
GSM 1900	1850-1910	24.7	3.0	0.0	27.7	589	20	0.117	1.00	12%	Pass
BLE	2400-2483.5	1.7	3.0	0.0	4.7	3	20	0.001	1.00	0%	Pass
NFC	13.56	0.0	0.0	0.0	0.0	1	20	0.000	0.98	0%	Pass

2.4 Simultaneous transmission RF Exposure Levels

Simultaneous Transmissions - Percent of Limit

	BLE	NFC
WCDMA Band II	6%	6%
WCDMA Band V	10%	10%
GSM 850	41%	41%
GSM 1900	12%	12%
BLE	0%	0%
NFC	0%	0%

Note: Highlighted color simply aids in identifying the highest level.

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	31 January 2017