

RF Exposure Report

Project Number: 4027277

Report Number: 4027277EMC05

Revision Level: 0

Client: Scientific Intake, LLC.

Equipment Under Test: Sensor Monitored Alimentary Restriction Therapy

Model Name: SmartByte

Model Number: BA10214

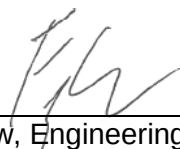
Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498

FCC OET Bulletin 65 Supplement

Report issued on: 15 November 2016

Test Result: Compliant

Tested by:


Fendy Liauw, Engineering Technician

Reviewed by:


Jeremy 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: Scientific Intake
Address: 1121 Highway 74 South
City, State, Zip, Country: Peachtree City, GA 30269, 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: Sensor Monitored Alimentary Restriction Therapy
Model Number: SmartByte

Frequency Range: 2402-2480MHz
Data Modes: Bluetooth Low Energy
Antenna: PCB Trace Antenna (~-2.9dB)

Rated Voltage: 5Vdc (USB)
Test Voltage: 5Vdc

Sample Received Date: 19 August 2016

1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum power including the maximum tolerance was 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 power, the power density was calculated. The antenna gain was derived from the conducted power measurements and radiated EIRP measurements.

2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Average EIRP		Distance (R)	Power Density EIRP _{avg} /(4πR ²)	FCC	% of Limit	Verdict
Type	MHz	dBm			dBm	mW	cm	mW	mW/cm ²		
Bluetooth	2400-2483.5	1.3	-2.9	0.0	-1.6	1	1	0.055	1.00	6%	Pass

1cm was chosen as a worst-case separation distance. This device is not intended for body-worn applications.

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	15 November 2016