

RF Exposure Report

Project Number: 4598567

Proposal Number: 10361 rev3

Report Number: 4598567EMC12

Revision Level: 1

Client: Owlet Baby Care Inc.

Equipment Under Test: Owlet Smart Sock Base Station V3

Model: OBL 3.0

FCC ID: 2AIEP-OBL3A

Applicable Standards: 47 CFR §§ 2.1091

FCC KDB 447498 D01 General RF Exposure Guidance v06

Report issued on: 07 July 2020

Result: Compliant

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Reviewed by:



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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.

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1 General Information

1.1 Client Information

Name: Owlet Baby Care Inc.
Address: 2500 Executive Parkway Suite 500
City, State, Zip, Country: Lehi, UT 84043, 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

Equipment Under Test: Owlet Smart Sock Base Station V3
Model: OBL 3.0
Sample ID: 5220

FCC ID: 2AIEP-OBL3A

Frequency Ranges: 2402 – 2480 MHz (BLE)
2412 – 2462 MHz (WLAN)

Data Modes: Bluetooth Low Energy (GFSK)
WLAN IEEE 802.11b/g/n20 (DSSS, OFDM)

Antennas: Internal PCB Trace Inverted F Antenna (0.77 dBi) for BLE
Internal PCB Trace Inverted F Antenna (1.48 dBi) for WLAN

Rated Voltage: 5 Vdc from AC Adapter with input rated for 100-240Vac 50-60Hz
Test Voltage: 5 Vdc from AC Adapter powered by 120Vac 60Hz

Sample Received Date: 02 March 2020
Dates of testing: 28 April 2020

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

For WLAN, the power from the FCC grant was used.

2.3 Single transmission RF Exposure Levels (mW/cm^2)

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					
WLAN 2.4	2400-2483.5	25.9	1.5	0.0	27.4	543	20	0.108	1.00	10.8%	Pass
Bluetooth LE	2400-2483.5	18.2	0.8	0.0	19.0	79	20	0.016	1.00	1.6%	Pass

2.4 Simultaneous transmissions

	WLAN 2.4	Bluetooth LE
WLAN 2.4		12.4%
Bluetooth	12.4%	

4 Revision History

Revision Level	Description of changes	Revision Date
Draft	--	28 May 2020
Rev 0	Initial Release	05 June 2020
Rev 1	<ul style="list-style-type: none"> - Added sample ID in section 1.3 - Added WLAN information in section 1.3 	07 July 2020