

RF Exposure Report

Project Number: 4511904**Proposal Number: 9420****Report Number: 4511904EMC04****Revision Level: 0****Client: Owlet Baby Care Inc.****Equipment Under Test: Owlet Band****Model / HVIN: OBB 1.0****FCC ID: 2AIEP-OBB1A****Applicable Standards: 47 CFR §§ 2.1093;****FCC KDB 447498 D01 General RF Exposure Guidance v06****Report issued on: 15 November 2019****Result: Exempt**

Evaluated by:



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Reviewed by:



David Schramm, EMC Manager

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

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: Pregnancy Wearable Device
Model: OBB 1.0
Firmware Version ID Number: V1
Serial Number: NSN

FCC ID: 2AIEP-OBB1A
IC: 21386-OBB1A

Frequency Range: 2402-2480 MHz
Data Modes: GFSK (Bluetooth Low Energy)
Antenna P/N: 2450AT07A0100
Antenna Type: Chip
Antenna Pk Gain: 1.0 dBi

DUT Rated Voltage: 3.7 Vdc (Battery)
DUT Test Voltage: 3.7 Vdc (Battery)
Charging Station Rated Voltage: 5 Vdc (USB)
Charging Station Test Voltage: 5 Vdc (USB)

Sample Received Date: 14 Oct 2019
Dates of testing: 14 – 17 Oct 2019

2 SAR Exclusion Calculations

The highest output power in conjunction with the Upper and Lower frequency boundaries have been used to demonstrate compliance.

The DUT is considered a Body Application.

447498 D01 General RF Exposure Guidance v06									
SAR test exclusion calculations									
Section 4.3: General SAR test exclusion guidance / Section 4.3.1: Standalone SAR test exclusion considerations									
	Input	Select Units							
Max Power:	-3.6	dBm							
Min separation distance:	5	mm							
Frequency, f:	2402	MHz							
Value reference Number	Values used for Calculation		Reference number definition						
v1	0	mW	[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW						
v2	5	mm	[min. test separation distance, mm] 'Rounded to nearest mm						
v3	1.550		[√f(GHz)]						
a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following: [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,									
1g Exclusion Threshold:	9.7	mW	<= 3 * v2 / v3						
10g Exclusion Threshold:	24.2	mW	<= 7.5 * v2 / v3						
Conclusions:	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Body applications								
	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Extremity applications								

447498 D01 General RF Exposure Guidance v06									
SAR test exclusion calculations									
Section 4.3: General SAR test exclusion guidance / Section 4.3.1: Standalone SAR test exclusion considerations									
	Input	Select Units							
Max Power:	-3.6	dBm							
Min separation distance:	5	mm							
Frequency, f:	2480	MHz							
Value reference Number	Values used for Calculation		Reference number definition						
v1	0	mW	[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW						
v2	5	mm	[min. test separation distance, mm] 'Rounded to nearest mm						
v3	1.575		[√f(GHz)]						
a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:									
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,									
1g Exclusion Threshold:	9.5	mW	≤ 3 * v2 / v3						
10g Exclusion Threshold:	23.8	mW	≤ 7.5 * v2 / v3						
Conclusions:	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Body applications								
	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Extremity applications								

3 Revision History

Revision Level	Description of changes	Revision Date
Draft	--	4 November 2019
0	Initial release	15 Nov 2019