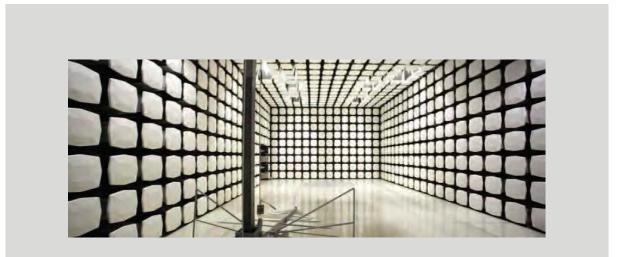


Masimo Corporation EMMA BT FCC 2.1093:2016 Bluetooth Low Energy Radio

Report # MASI0321



NVLAP Lab Code: 200676-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.





Last Date of Evaluation: July 14, 2016 Masimo Corporation Model: EMMA BT

RF Exposure Evaluation

Standards

Specification	Method
FCC 2.1093:2016	FCC KDB 447498 D01 General RF Exposure Guidance v06

Results

Method Clause	Evaluation Description		Results	Comments	
4.3.1	SAR Test Exclusion	Yes	Pass		

Deviations From Standards

None

Approved By:

Donald Facteau, IT Manager

Product compliance is the responsibility of the client; therefore, the Evaluations and equipment modes of operation represented in this report were agreed upon by the client, prior to Evaluationing. The results of this Evaluation pertain only to the sample(s) Evaluationed. The specific description is noted in each of the individual sections of the Evaluation report supporting this certificate of Evaluation. This report reflects only those Evaluations from the referenced standards shown in the certificate of Evaluation. It does not include inspection or verification of labels, identification, marking or user information.

REVISION HISTORY



Revision Number		Description	Date	Page Number	
00	None				

ACCREDITATIONS AND AUTHORIZATIONS



United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

IC - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

European Union

European Commission – Validated by the European Commission as a Notified Body under the R&TTE Directive.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

MSIP / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC – Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFCA – Recognized by OFCA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

SCOPE

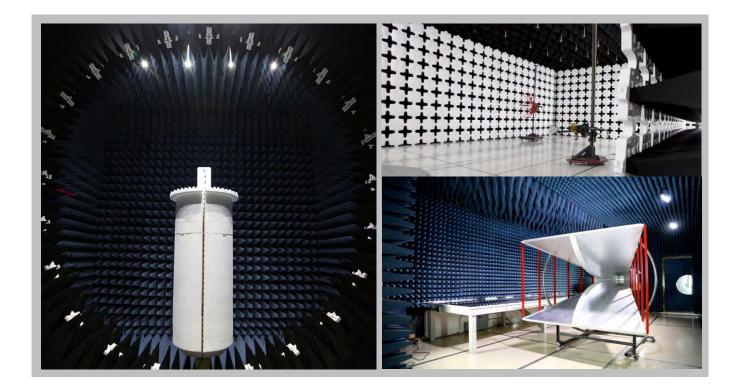
For details on the Scopes of our Accreditations, please visit: <u>http://www.nwemc.com/accreditations/</u> <u>http://gsi.nist.gov/global/docs/cabs/designations.html</u>

FACILITIES





California Minnesota Labs OC01-13 Labs MN01-08, MN 41 Tesla 9349 W Broadway / Irvine, CA 92618 Brooklyn Park, MN 5 (949) 861-8918 (612)-638-5136		New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214	Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	Texas Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	Washington Labs NC01-05 19201 120 th Ave NE Bothell, WA 98011 (425)984-6600					
NVLAP										
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200676-0 NVLAP Lab Code: 200881-0 NVLAP Lab Code: 200761-0 NVLAP Lab Code: 200630-0 NVLAP Lab Code: 201049-0 NVLAP Lab Code: 200629-0									
Industry Canada										
2834B-1, 2834B-3	2834G-1	2834F-1								
BSMI										
SL2-IN-E-1154R SL2-IN-E-1152R N/A SL2-IN-E-1017 SL2-IN-E-1158R SL2-IN-E-1153R										
VCCI										
A-0029	A-0029 A-0109 N/A A-0108 A-0201 A-0110									
Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA										
US0158	US0175	N/A	US0017	US0191	US0157					



PRODUCT DESCRIPTION



Client and Equipment Under Evaluation(EUT) Information

Company Name:	Masimo Corporation
Address:	40 Parker
City, State, Zip:	Irvine, CA 92618
EvaluationRequested By:	Michael Clark
Model:	EMMA BT
First Date of Evaluation:	July 14, 2016

Information Provided by the Party Requesting the Evaluation

Functional	Description	n of the EUT:	

EMMA measures, displays and monitors carbon dioxide partial pressure and respiratory rate during anesthesia, recovery and respiratory care.

Objective:

To demonstrate compliance with FCC RF exposure requirements for 2.1093 portable devices.

SAR TEST EXCLUSION



OVERVIEW

The device is excluded from SAR evaluation and therefore deemed compliant with FCC RF exposure requirements as described below:

COMPLIANCE WITH FCC KDB 447498 D01 General RF Exposure Guidance v06

KDB 447498 D01 General RF Exposure Guidance v06, Section 4.3.1(a)

"For 100 MHz to 6 GHz and test separation distances \leq 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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and \leq 7.5 for 10-g extremity SAR,

where

- f(GHz) is the RF channel transmit frequency in GHz ٠
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison •
- 3.0 and 7.5 are referred to as the numeric thresholds in the step b below •

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1f) is applied to determine SAR test exclusion."

METHOD OF EVALUATION

The SAR Test Exclusion Threshold is summarized in the following table:

The result of the calculation is below the exclusion threshold; therefore the unit is excluded from SAR evaluation and deemed compliant with FCC RF exposure requirements.

Radio	Transmit Frequency (MHz)	Test Separation (mm)	Conducted Output Power (mW)	Duty Cycle	Exclusion Threshold	Limit	Compliant
BT	2402	5	1.5	1	0.47	3	Yes