Client	Thalmic Labs Inc	
Product	Myo Armband	GLOBAL
Standard(s)	RSS 210 Issue 8:2010 / FCC Part 15 Subpart C 15:2014	EMC'INC

Maximum Permissible Exposure – 15.247

Purpose

The purpose of this test is to ensure that the RF energy intentionally transmitted, in terms of power density emitted from the EUT at a stated operating distance does not exceed the limits listed below as defined in the applicable test standard, as calculated based upon readings obtained during testing. This helps protect human exposure to excessive RF fields.

Limit(s) and Method

The limits, as defined in FCC 15.247(i) and FCC 1.1310 Table 1 (B) limits for general public exposure was applied. The limit for the frequency range of 1.5 GHz to 100 GHz was applied to the 15.247 device. This is a limit of 1.0 mW/cm². The distance used for calculations was 0.5 cm, as this is the minimum distance an operator will be from the EUT during normal operation, as stated by the manufacturer.

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Client	Thalmic Labs Inc	A
Product	Myo Armband	GLOBAL ENC
Standard(s)	RSS 210 Issue 8:2010 / FCC Part 15 Subpart C 15:2014	

Results

The EUT passed the requirements. The worst case calculated power density was $0.88~\text{mW/cm}^2$, this is under the $1.0~\text{mW/cm}^2$ requirement.

Calculations

Method 1 (conducted power) Internal antenna

 $P_d = (P_t *G) / (4*pi*R^2)$

Where Pt = 3.92 dBm or 2.47 mW as per Peak power conducted output

Where G = 0.5 dBi, or numerically $1.\overline{12}$

Where R = 0.5 cm

$$\begin{split} P_d &= (2.47 \ mW \ * \ 1.12) \, / \, (4 \ * \ pi \ * \ 0.5 \ cm^2) \\ P_d &= 2.77 \ mW \, / \, 3.14 \ cm^2 \\ P_d &= 0.88 \ mW/cm^2 \end{split}$$

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