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Date: **January 22, 2015**

RF exposure analysis for the equipment DA312r (FCC ID: X26DA312r)

1. Introduction

The device DA312r (FCC ID: X26DA312r) is a wireless hearing instrument used to amplify sound from the surrounding to the end user and also receive audio signals through wireless connection to accessories. It contains a multi-mode 2.4GHz radio which operates, time & frequency divided, in either BlueTooth Low Energy mode (BTLE) or a proprietary "Proximity" mode and is intended for use within 20 cm of humans.

2. SAR limits

According to § 2.1093 (d) (2) the limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and peak spatial-average SAR limit is 1.6 W/kg, averaged over any 1 gram of tissue over the whole body.

3. Compliance criteria:


Individual transmitters are deemed to comply with § 2.1093 requirements if the output power of the transmitter meets the conditions specified in section 4.3.1 (Standalone SAR test exclusion) considerations of the document "KDB 447498 D01 General RF Exposure Guidance v05r02".

4. Compliance calculations:

Mode	Sub-mode	Frequency	Average field strength (dBµV/m)	Average output power (dBm)	Average output power (mW)	Evaluation distance per KDB 447498 D01 General RF Exposure Guidance v05r02 - 4.3.1 (mm)	SAR Test Exclusion Thresholds per KDB 447498 D01 General RF Exposure Guidance v05r02 - 4.3.1 - 1) (mW)	SAR Test Exclusion Thresholds per KDB 447498 D01 General RF Exposure Guidance v05r02 - 4.3.1 - 1)
BLE	BLE	2402	85,55	-9,68	0,108	5	10	COMPLIANT
		2440	85,79	-9,44	0,114	5	10	COMPLIANT
		2480	84,70	-10,53	0,089	5	10	COMPLIANT
Proximity	Proximity	2404	82,60	-12,63	0,055	5	10	COMPLIANT
		2440	82,47	-12,76	0,053	5	10	COMPLIANT
		2478	81,01	-14,22	0,038	5	10	COMPLIANT

Sincerely,

P.A.



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