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RF exposure analysis for the equipment Baha®5 SUP (FCC ID: QZ3BAHA5SUP)

1. Introduction

The device **Baha®5 Power** (FCC ID: **QZ3BAHA5POWER**) is a bone anchored sound processor 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 Clause 4.3.1 General RF Exposure Guidance v05r02".

4. Compliance calculations:

Mode	Frequency (GHz)	Peak field strength (dBµV/m)	Peak output power (mW)	Evaluation distance per KDB 447498 D01 General RF Exposure Guidance v05r02 - 4.3.1 (mm)	[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [vf(GHz)]		SAR Test Exclusion Thresholds per KDB 447498 D01 General RF Exposure Guidance v05r02 - 4.3.1 - 1)
BLE	2,402	88,65	0,2198	5	0,0681266	≤ 3	COMPLIANT
	2,440	90,62	0,3459	5	0,1080749	≤ 3	COMPLIANT
	2,480	90,18	0,3126	5	0,0984591	≤ 3	COMPLIANT
Proximity	2,404	88,97	0,2366	5	0,0733664	≤ 3	COMPLIANT
	2,440	90,63	0,3467	5	0,1083241	≤ 3	COMPLIANT
	2,478	90,5	0,3365	5	0,1059450	≤ 3	COMPLIANT

Sincerely,

P.A. 

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