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RF exposure analysis for the equipment AXA E-RL (FCC ID: 2AIQH-AXA-ERL-01)

1. Introduction

The device **AXA E-RL** (FCC ID: **2AIQH-AXA-ERL-01**) is a electronic bicycle lock which can be opened by the use of a mobile phone.

It contains a 2.4GHz radio which operates in BlueTooth Low Energy mode (BTLE), 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:

Transmitter is deemed to comply with FCC § 2.1093 requirements as the output power of the device meets the conditions specified in section 4.3.1 (Standalone SAR test exclusion) considerations of the document "KDB 447498 D01 General RF Exposure Guidance v06".

4. Standalone operation analysis:

Mode	Frequency (GHz)	Peak output power (dBm)	Peak output power (mW)	Evaluation distance per KDB 447498 D01 General RF Exposure Guidance v06 - 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 v06 - 4.3.1 - 1)
BLE	2,402	-9,51	0,1119	5	0,0346990	≤ 3	COMPLIANT
	2,440	-10,18	0,0959	5	0,0299726	≤ 3	COMPLIANT
	2,480	-11,12	0,0773	5	0,0243364	≤ 3	COMPLIANT

Sincerely,

P.A.



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