

RF EXPOSURE ANALYSIS

EQUIPMENT

Type of equipment: Wireless dimmer with ZigBee
Type / Model: ICTC-G-1
Brand name: IKEA
Manufacturer: IKEA of Sweden AB
By request of: IKEA of Sweden AB
Box 702
343 81 Älmhult
Sweden

Operating frequencies: 2405-2480 MHz

REQUIREMENT

EN62479:2010
CFR 47 §1.1310
RSS-102 issue 5 (2015)

CALCULATIONS

Highest measured conducted output power is 3.27 dBm peak or 2.12 mW.

LIMITS & EVALUATIONS:

Standard	Reference for limit	Limit	Unit	Values	Result
EN 62479	EN62479 ¹	20	mW	2.12	PASS
CFR 47 §1.1310	KDB 447498 D01 ²	3	mW	0.62	PASS
RSS-102 issue 5 (2015)	RSS-102 issue 5 (2015) ³	4	mW	2.12	PASS

Table 1

¹From Table A.1 for general public and head and trunk

²1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$. Test separation distance is taken as 5 mm and maximum power is 2 mW at 2.405 GHz.

³Section 2.5.1, table 1, based on a separation distance of 5 mm and frequency of 2450 MHz.

Summary:

All requirements are fulfilled

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