RF EXPOSURE ANALYSIS

EQUIPMENT

Type of equipment:	Thermostat
Type / Model:	ViCare Radiator Thermostat Valve
Brand name:	Viessmann Werke GmbH & Co.
Manufacturer:	Viessmann Werke GmbH & Co.
By request of:	Danfoss A/S

Operating frequencies: 2405 - 2480 MHz

REQUIREMENT

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

CALCULATIONS

Highest measured conducted output power is 11.2 dBm peak or 13.2 mW.
According to manufacturer the duty cycle is 0.02 %.
The time averaged EIRP is 0.02 * 13.2 mW = 0.264 mW

Highest declared output power is 15.8 mW.
According to manufacturer the duty cycle is 0.02 %.
The time averaged EIRP is 0.02 * 15.8 mW = 0.316 mW

LIMITS & EVALUATIONS:

Standard	Reference for limit	Limit	Unit	Values	Result
EN 62479	EN62479[1]	40	mW	0.316	PASS
CFR 47 §1.1310	KDB 447498 D01[2]	7.5	N/A	0.09	PASS
RSS-102 issue 5 (2015)	RSS-102 issue 5 (2015)[3]	10	mW	0.316	PASS

Table 1

[1]From Table A.1 for general public and limbs.

[2]10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 7.5. Test separation distance is taken as 5 mm and maximum power is 15.8 mW at 2.405 GHz.

[3]Section 2.5.1, table 1, based on a separation distance of 5 mm and frequency of 2450 MHz for limb worn equipment.

Summary:

All requirements are fulfilled

Date of issue: 2018-09-18

Per Larsson

Issued by: Per Larsson

Intertek Semko AB, Radio & EMC