

RF Exposure Evaluation declaration

Product Name : Hypo-Vigilance / Fatigue Detector /
VigilanceSense /BodySensing
Model No. : DFD-100
FCC ID. : RJI-DF100

Applicant : Holux Technology, Inc.

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Date of Receipt : 2011/08/09
Date of Declaration : 2011/09/13
Report No. : 118224R-RF-US-Exp
Report Version : V1.0

The declaration results relate only to the samples calculated.
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1. RF Exposure Evaluation

1.1. Limits

According to 1.1307(b)(1), system operating under the provisions of this section shall be operated in manner that ensure that the public is not exposed is not exposed to radio frequency energy level in excess of the Commission's guideline.

No Evaluation required for output power as below thresholds:
 f = GHz, d = Distance (between radiated device and the body)

When $d < 2.5\text{cm}$, Output Power = $(60/f)$ mW

Ex: $f = 2.4\text{GHz}$, Output Power = $(60/2.4) = 25\text{mW}$ (13.98dBm)

When $d \geq 2.5\text{cm}$, and $< 20\text{cm}$, Output Power = $(120/f)$ mW

Ex: $f = 2.4\text{GHz}$, Output Power = $(120/2.4) = 50\text{mW}$ (16.99 dBm)

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product	Hypo-Vigilance / Fatigue Detector / VigilanceSense /BodySensing
Test Mode	Transmit
Test Condition	RF Exposure Evaluation

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2dBi or 1.58 in linear scale.

Output Power into Antenna

Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Output Power threshold (mW) (d < 2.5cm)
00	2402	6.0674	24.979
39	2441	6.1094	24.580
78	2480	6.6988	24.194

Conclusion:

No SAR evaluation required, since transmitter output power is below threshold.