



Date: 2016-08-08

Report Number: 60.780.16.078.01

Model No.: HSTNW-D10W

Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1,

>> The 1-g SAR test exclusion thresholds, for 100MHz to 6GHz, at test separation distances ≤ 50 mm are determined by:

Power at 2402MHz = 0.4169 mW EIRP

Power at 2440MHz = 0.4159 mW EIRP

Power at 2480MHz = 0.4055 mW EIRP

$[(0.4169 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt}(2.402 \text{ GHz})] = 0.1293$ which is ≤ 3.0 for 1-g SAR.

$[(0.4159 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt}(2.440 \text{ GHz})] = 0.1299$ which is ≤ 3.0 for 1-g SAR.

$[(0.4055 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt}(2.480 \text{ GHz})] = 0.1277$ which is ≤ 3.0 for 1-g SAR.

Therefore the device is exempt from stand-alone SAR test requirements.

>> The fundamental frequency of the EUT is 2402MHz-2480MHz, the test separation distance is < 50 mm. (Manufacturer specified the separation distance is: less than 5mm)

>> The power of EUT measured is:

- For 2402MHz: $0.4169\text{mW} = 10 \log(0.4169) \text{ dBm} \sim -3.80\text{dBm}$

- For 2440MHz: $0.4159\text{mW} = 10 \log(0.4159) \text{ dBm} \sim -3.81\text{dBm}$

- For 2480MHz: $0.4055\text{mW} = 10 \log(0.4055) \text{ dBm} \sim -3.92\text{dBm}$