



Date: 2015-08-24

Report Number: 60.790.15.016.01

Model No.: Ridesense

Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v05r02 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 2457GHz = 0.1931 mW EIRP

Power at 2402GHz = 0.0612 mW EIRP

Power at 2440GHz = 0.0571 mW EIRP

Power at 2480GHz = 0.0580 mW EIRP

$[(0.1931 \text{ mW}) / (50 \text{ mm})] \cdot [\text{sqrt}(2457 \text{ GHz})] = 0.1914$ which is ≤ 3.0 for 1-g SAR.

$[(0.0612 \text{ mW}) / (50 \text{ mm})] \cdot [\text{sqrt}(2402 \text{ GHz})] = 0.0599$ which is ≤ 3.0 for 1-g SAR.

$[(0.0571 \text{ mW}) / (50 \text{ mm})] \cdot [\text{sqrt}(2440 \text{ GHz})] = 0.0564$ which is ≤ 3.0 for 1-g SAR.

$[(0.0580 \text{ mW}) / (50 \text{ mm})] \cdot [\text{sqrt}(2480 \text{ GHz})] = 0.0577$ 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 2457MHz and 2400-2483.5MHz; the test separation distance is $< 50\text{mm}$.

>> The power of EUT measured is:

- For 2457MHz: $0.1931\text{mW} = 10 \log(0.1931) \text{ dBm} \sim -7.14\text{dBm}$

- For 2402MHz: $0.0612\text{mW} = 10 \log(0.0612) \text{ dBm} \sim -12.13\text{dBm}$

- For 2440MHz: $0.0571\text{mW} = 10 \log(0.0571) \text{ dBm} \sim -12.43\text{dBm}$

- For 2480MHz: $0.0580\text{mW} = 10 \log(0.0580) \text{ dBm} \sim -12.36\text{dBm}$