Date: 2016-08-08
Report Number: 60.790.16.080.01
Model No.: HSTNW-D04W

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 = 0.0791 mW EIRP
Power at 2440MHz = 0.0845 mW EIRP
Power at 2480MHz = 0.1005 mW EIRP

[(0.0791 mW) / (5 mm)] · [sqrt (2.402 GHz)] = 0.0245 which is ≤ 3.0 for 1-g SAR.
[(0.0845 mW) / (5 mm)] · [sqrt (2.440 GHz)] = 0.0264 which is ≤ 3.0 for 1-g SAR.
[(0.1005 mW) / (5 mm)] · [sqrt (2.480 GHz)] = 0.0317 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 < 50mm. (Manufacturer specified the separation distance is: less than 5mm)

>> The power of EUT measured is:

- For 2402MHz: 0.0791mW = 10 log (0.0791) dBm ~ -11.02dBm
- For 2440MHz: 0.0845mW = 10 log (0.0845) dBm ~ -10.73dBm
- For 2480MHz: 0.1055mW = 10 log (0.1005) dBm ~ -9.98dBm

TÜV SÜD Hong Kong Ltd.
3/F, West Wing, Phase 2, 10 Science Park West Avenue, Hong Kong Science Park, Shatin, Hong Kong