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Model No.: WAE Outdoor 04Plus

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 = 0.6180 mW EIRP
Power at 2440MHz = 0.6251 mW EIRP
Power at 2480MHz = 0.5888 mW EIRP

[(0.6180 mW) / (20 mm)] · [sqrt (2.402 GHz)] = 0.0479 which is ≤ 3.0 for 1-g SAR.
[(0.6251 mW) / (20 mm)] · [sqrt (2.440 GHz)] = 0.0488 which is ≤ 3.0 for 1-g SAR.
[(0.5888 mW) / (20 mm)] · [sqrt (2.480 GHz)] = 0.0463 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: 20mm)

>> The power of EUT measured is:

- For 2402MHz: 0.6180mW = 10 log (0.6180) dBm ~ -2.09dBm
- For 2440MHz: 0.6251mW = 10 log (0.6251) dBm ~ -2.04dBm
- For 2480MHz: 0.5888mW = 10 log (0.5888) dBm ~ -2.30dBm

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