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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 = 0.8531 mW EIRP
Power at 2402GHz = 1.1912 mW EIRP
Power at 2440GHz = 1.1721 mW EIRP
Power at 2480GHz = 1.3335 mW EIRP

[(0.8531 mW) / (50 mm)] · [sqrt (2457 GHz)] = 0.8457 which is ≤ 3.0 for 1-g SAR.
[(1.1912 mW) / (50 mm)] · [sqrt (2402 GHz)] = 1.1676 which is ≤ 3.0 for 1-g SAR.
[(1.1721 mW) / (50 mm)] · [sqrt (2440 GHz)] = 1.1579 which is ≤ 3.0 for 1-g SAR.
[(1.1335 mW) / (50 mm)] · [sqrt (2480 GHz)] = 1.1289 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, the test separation distance is < 50mm.

>> The power of EUT measured is:

- For 2457MHz: 0.8531mW = 10 log (0.8531) dBm ~ -0.69dBm
- For 2402MHz: 1.1912mW = 10 log (1.1912) dBm ~ +0.76dBm
- For 2440MHz: 1.1721mW = 10 log (1.1721) dBm ~ -+0.69dBm
- For 2480MHz: 1.3335mW = 10 log (1.3335) dBm ~ +1.25dBm

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