

RF Exposure

WEBER IGRILL 3 is a Smart Thermometer which is powered by DC 4.5V (AA x 3). For more detail information please refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 3.3dBi.

Bluetooth Version: 4.0 BLE

Modulation Type: GFSK

The nominal conducted output power specified: -1dBm \pm 3dB.

The nominal radiated output power (EIRP) specified: -0.7dBm ~ 5.3dBm

Maximum tested power is 0.77dBm for BLE mode with GFSK modulation

According to the KDB 447498:

The maximum conducted output power specified is 5.3dBm = 3.39mW

The source- based time-averaging conducted output power
= 3.39* Duty Cycle mW= 3.39 mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.480) mW
= 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

Transmitter Duty Cycle Calculation

The test signal of the EUT is Continuous emission, so the Duty Cycle is 100%.