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Model No.: BT LED Display

## Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6 GHz and test separation distances $\leq 50 \mathrm{~mm}$, the Numeric threshold is determined as:

Step a)
[(max. power of channel, including tune-up tolerance, mW ) / (min. test separation distance, $\mathrm{mm})] \cdot[\mathrm{Vf}(\mathrm{GHz})] \leq 3.0$ for $1-\mathrm{g} \mathrm{SAR}$
>> The fundamental frequency of the EUT is $2402-2480 \mathrm{MHz}$, the test separation distance is $\leq 50 \mathrm{~mm}$. (Manufacturer specified the separation distance is: 5 mm )

Step a)
>> Numeric threshold ( 2402 MHz ), mW / $5 \mathrm{~mm} * \sqrt{2.402 \mathrm{GHz} \leq 3.0}$
Numeric threshold $(2402 \mathrm{MHz}) \leq 9.678 \mathrm{~mW}$
$\gg$ Numeric threshold $(2440 \mathrm{MHz}), \mathrm{mW} / 5 \mathrm{~mm} * \sqrt{2.441 \mathrm{GHz} \leq 3.0}$
Numeric threshold $(2440 \mathrm{MHz}) \leq 9.601 \mathrm{~mW}$
>> Numeric threshold $(2480 \mathrm{MHz}), \mathrm{mW} / 5 \mathrm{~mm} * \sqrt{2.480 G H z} \leq 3.0$
Numeric threshold $(2480 \mathrm{MHz}) \leq 9.525 \mathrm{~mW}$
>> The power of EUT measured ( 2402 MHz ) is: $-0.05 \mathrm{dBm}=0.988 \mathrm{~mW}$
The power of EUT measured ( 2440 MHz ) is: $-0.17 \mathrm{dBm}=0.962 \mathrm{~mW}$
The power of EUT measured $(2480 \mathrm{MHz})$ is: $0.34 \mathrm{dBm}=1.081 \mathrm{~mW}$
Which is smaller than the Numeric threshold.
Therefore, the device is exempt from stand-alone SAR test requirements.

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