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Report Number: 60.792.18.057.01

Model No.: 165-00471

Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1, For frequencies below 100 MHz and test separation distances \leq 50 mm, the Numeric threshold is determined as:

Step a)

$\{(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})\} \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$
for 1-g SAR

Step b)

$\{[\text{Power allowed at numeric threshold for 50mm in step a}] + [(\text{test separation distance} - 50\text{mm}) \cdot (f(\text{MHz})/150)]\}$
mW

Step c) 1)

For test separation distances $>$ 50mm and $<$ 200mm, the power threshold at the corresponding test separation distance at 100MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$

Step c) 2)

For test separation distances \leq 50mm, the power threshold determined by the equation in c) 1) for 50mm and 100MHz is multiplied by $\frac{1}{2}$.

>> The fundamental frequency of the EUT is 125kHz, the test separation distance is \leq 50mm.
(Manufacturer specified the separation distance is: 20mm)

Step a)

>> Numeric threshold, mW / 50mm * $\sqrt{0.1\text{GHz}}$ \leq 3.0
Numeric threshold \leq 474.3mW

Step b)

>> Numeric threshold \leq 474.3mW + (50mm-50mm * 100MHz/150)
Numeric threshold \leq 474.3mW

Step c) 1) & c) 2)

>> Numeric threshold \leq 474.3mW * $[1 + \log 100/100\text{MHz}] * \frac{1}{2}$
Numeric threshold \leq 237.15mW

>> The power of EUT measured is: : 51.35 dB μ V/m = 0.0000249619mW

Which is smaller than the Numeric threshold.

Therefore, the device is exempt from stand-alone SAR test requirements.