

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Smart Thermometer
Model Name	VA-IH008
FCC ID	2AFDGVA-IH008

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05 the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Where $f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

3. CALCULATION

$P_t = 90.50 \text{ dBuV/m (3m)} = 0.34 \text{ mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.249

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The result for the evaluation $\text{SAR} = (0.34 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{0.915 \text{ (GHz)}}] = 0.07 < 3.0$
for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.