

FCC ID: 2AKCX-TH1

Thimble transmitter environmental evaluation and SAR test exclusion according to KDB 447498 D01 v06 Section 4.3 General RF Exposure Guidance.

Section 4.3.1 a) determines SAR test exclusion as:

For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following: $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,
where $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

EIRP power = -10 dBm = 0.1 mW at 2.405 GHz frequency.

Using 5mm for separation distances $< 5\text{mm}$:

$$(0.1/5) \times (\sqrt{2.405}) = 0.02 \times 1.55 = 0.031 \text{ that is } < 3.0$$

The tested device is being excluded from SAR test.