

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distance ≤ 50 mm are determined by:

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

The tune-up power is -11 dBm (± 2 dB), therefore the highest tune-up power is -9.00 dBm (0.1259 mW) @ 433.920 MHz (worst)

When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

$$(0.1259 \text{ mW} / 5 \text{ mm}) * (0.43392 \text{ GHz}^{0.5}) = 0.01659$$

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] = 0.01659 < 3.0$$

Therefore, standalone SAR measurements are not required for both head and body.

Note:

1. The tune up power referred the operation description for SAR test exclusion purpose.