



Radio Frequency Exposure

EUT INFORMATION

EUT	Bluetooth Smart Scale
Frequency band (Operating)	Bluetooth: 2.402 GHz ~ 2.480 GHz
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	GFSK: -1.21 dBm (0.757 mW)
Antenna gain (Max)	2.5 dBi

TEST RESULT

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 max. average power of channel, including tune-up tolerance(mW) is 0.757 mW @ 2480 MHz (With Tune-up tolerance),

The min. test separation distance (mm) is 5 mm,

$$\text{So, } [(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] = 0.238 < 3.0 \text{ (With Tune-up tolerance).}$$

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