



Radio Frequency Exposure

EUT INFORMATION

EUT	Wireless SmartBand
Frequency band (Operating)	Bluetooth: 2.402GHz ~ 2.480 GHz
Antenna diversity	☐ Single antenna ☒ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☒ Tx/Rx diversity
Max. output power	GFSK: -8.41 dBm (0.144 mW)
Antenna gain (Max)	2.2 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:

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

The max. average power of channel, including tune-up tolerance(mW) is 1.5 mW @ 2402MHz (With Tune-up tolerance),

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

So, $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 1.5/5 \times \sqrt{2.402} = 0.3 \times 1.5498 = 0.465 < 3.0$ (With Tune-up tolerance).

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