



Radio Frequency Exposure

EUT INFORMATION

EUT	In-Vehicle Computer / IOT Gateway / SOM
Frequency band (Operating)	Bluetooth: 2.402 GHz ~ 2.480 GHz
Antenna diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☒ Tx/Rx diversity
Max. output power	GFSK: -1.37 dBm (0.7 mW)
Antenna gain (Max)	2.79 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 0.7 mW @ 2402 MHz (With Tune-up tolerance),

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

So, $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] = \mathbf{0.217} < 3.0$ (With Tune-up tolerance).

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