

RF exposure evaluation

The RF exposure evaluation was calculated as below:

- 1) The maximum output power for antenna is 5.608dBm (BT 3.0 + EDR)(3.64mW) at 2441MHz of GFSK mode; 6.566dBm(BT 4.0)(4.54mW) at 2441MHz of GFSK mode.
- 2) For Bluetooth device or fixed location transmitters, no SAR consideration applied.
- 3) Per KDB 447498 D01v05r02, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.
-
- The result is rounded to one decimal place for comparison
- BT 3.0+EDR:

Channel	Frequency (GHz)	Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 39	2.441	5.608	3.64	5	1.14	3.0

- BT 4.0

Channel	Frequency (GHz)	Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 39	2.441	6.566	4.54	5	1.42	3.0

- Base on the calculation value, the RF exposure evaluation is not required.
- The public is not exposed to radio frequency energy level in excess of the Commission's guideline.