

RF EXPOSURE EVALUATION FOR BLUETOOTH

As per FCC OET KDB 447498 D01, conducted output power and SAR testing are not required for Bluetooth channels when the Max power is under 10 dBm and the separation distance is 5mm, the Bluetooth must be estimated according to following to determine simultaneous transmission SAR test exclusion:

- $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f_{\text{(GHz)}}}/x] \text{ W/kg}$
for test separation distances $\leq 50 \text{ mm}$; where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
- 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is $> 50 \text{ mm}$.

NB Mode

Mode	Band	Frequency (MHz)	Output Power		Separation Distances(mm)	Estimated 1-g SAR (W/Kg)
			dBm	mW	NB Bottom	NB Bottom
Bluetooth	2.4GHz	2402	8.00	6.00	11.10	0.112