

Appendix 5

RF Exposure Information

FCC ID : N2T30659155
IC : 9285A-30659155

Maximum transmitter power

Bluetooth Transmitter

Frequency (MHz)	Maximum peak output power (dBm)	Output power (mW)
2402	-2.22	0.600
2442	-1.88	0.649
2480	-1.85	0.653

Note: The maximum peak field strength was taken from table of "Subclause 15.247(b)(3) / RSS-247 5.4 – Maximum Peak Conducted Output Power".

For FCC

According to KDB 447498 D01:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 5 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$
 ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity 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
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

Result:

Bluetooth Transmitter

$$(0.600/5) \cdot \sqrt{2.402} = 0.186 < 3.0$$

$$(0.649/5) \cdot \sqrt{2.442} = 0.203 < 3.0$$

$$(0.653/5) \cdot \sqrt{2.480} = 0.206 < 3.0$$

Conclusion:

No SAR is required.

For ISED

According to table 1 in RSS-102 Issue 5, below exemption limit is applied

Frequency: 2480 MHz

At separation distance of ≤ 5 mm

Exemption limits: 4mW

Results:

max. power of channels = 0.653 mW < 4mW

Conclusion:

The maximum peak output power of the transmitter is less than the SAR evaluation exemption threshold and hence it complies with the RSS-102 RF exposure requirement.