

Appendix 5 RF Exposure Information



Maximum transmitter power:

Frequency	Maximum peak output power	Output power
(MHz)	(dBuV/m)	(mW)
908.420	93.34	0.6473

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* ≤50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

- f(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:

 $(0.6473/5)*\sqrt{0.9084} = 0.123 < 3.0$

Conclusion:

No SAR is required.

For IC

According to table 1 in RSS-102 Issue 5, below exemption limit at separation distance of ≤ 5mm is applied:

Frequency	Exemption limits
(MHz)	(mW, by linear interpolation)
902	16.370
928	16.126

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 without SAR evaluation.