

Appendix 5

RF Exposure Information

FCC ID: 2AXEQ-CORE8PLUS
IC ID: 28025-CORE8PLUS

Maximum transmitter power:

Frequency (MHz)	Maximum peak output power (dBm)	Output power(mW)
2402	-9.65	0.108
2442	-9.58	0.110
2480	-9.80	0.104

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* \leq 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 and \leq 7.5 for 10-g extremity SAR,²⁴ where

- f_{GHz} is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- 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:

$$(0.108/5) * \sqrt{2.402} = 0.03 < 3.0$$

$$(0.110/5) * \sqrt{2.442} = 0.03 < 3.0$$

$$(0.104/5) * \sqrt{2.480} = 0.03 < 3.0$$

Conclusion:

No SAR is required.

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

- Frequency: 2450MHz
- At separation distance of \leq 5mm
- Exemption limits: 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 without SAR evaluation..