

G5 Pxx Pocket SAR exclusion analysis

Product: 2,4 GHz Transceiver G5 LP1 Pocket, G5 LP2 Pocket, G5 LP3 Pocket, G5 LP4 Pocket, G5 LP5 Pocket, G5 LP6 Pocket, G5 LP7 Pocket, G5 LP8 Pocket

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According to RSS-102 exemption 2.5.1 “Exemption from Routine Evaluation Limits – SAR Evaluation”:

SAR evaluation is required if the separation distance between the user and the radiating element of the device is less than or equal to 20 cm, except when the device operates as follows:

- *above 2.2 GHz and up to 3 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 20 mW for general public use and 100 mW for controlled use*

Prediction of MPE limit at a given distance

$$EIRP = \frac{E^2 R^2}{30}$$

E = Field Strength	86,97 dBuV/m
	0,0223 V/m
Distance	3,0 m
EIRP	0,000149 W
EIRP	0,149 mW

This level 0,149 mW is less than the threshold of 20 mW.

Conclusion: The product satisfies the RSS-102 Issue 4.

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