

## Appendix 5 RF Exposure Information



## Maximum transmitter power:

Maximum peak output power (dBm)	Output power(mW)
20.149	103.4904
20.245	105.8035
20.042	100.9718
Maximum peak output power (dBm)	Output power(mW)
23.264	212.0313
23.597	228.9286
23.604	229.2979
Maximum peak output power (dBm)	Output power(mW)
23.143	206.2054
23.472	222.4334
23.524	225.1127
Maximum peak output power (dBm)	Output power(mW)
23.383	217.9215
23.480	222.8435
23.560	226.9865
	Maximum peak output power (dBm)   20.149   20.245   20.042   Maximum peak output power (dBm)   23.264   23.597   23.604   Maximum peak output power (dBm)   23.143   23.472   23.524   Maximum peak output power (dBm)   23.472   23.524

According to the manufacturer's installation instruction, the EUT operating in standalone mobile exposure conditions which minimum test separation distance is 20cm between the antenna and radiating structures of the device and nearby persons.

## For FCC:

For Maximum Permissible Exposure (MPE) evaluation, the maximum power density at 20 cm from this mobile transmitter shall be less than the General Population / Uncontrolled MPE limit in OET Bulletin 65 and meet the requirement listed in KDB447498.

Evaluation:

The maximum conducted output power of is 229.3mW,

The power density at 20cm = (229.3mW x 1.2589)/ $4\pi R^2$ 

Conclusion:

In the frequency range of 1,500 - 100,000MHz, the MPE limit is 1.0 mWcm<sup>-2</sup> for general population and uncontrolled exposure. As the measured power density at 20cm from the transmitter is lower than the MPE limit, the compliance to the MPE limit can be ensured by indicating the minimum 20cm separation between the transmitter's radiating structures and body of the user or nearby persons.

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## For IC:

According to section 2.5.2 of RSS-102 Issue 5, RF exposure evaluation is not required if the following condition meet:

"at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x  $10^{-2} f^{0.6834}$  W (adjusted for tune-up tolerance), where *f* is in MHz;"

Therefore, the threshold is  $1.31 \times 10^{-2} 2412^{0.6834} \text{ W} = 2.68 \text{ W}$ 

Conclusion:

The maximum e.i.r.p 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..