

RF Exposure Considerations for FCC ID: F15-DW201

The calculation of the MPE is as following:

Prediction of MPE limit at a prediction distance:

$$S = \frac{P.G}{4.\pi.R^2} = \frac{E.I.R.P}{4.\pi.R^2}$$

S: Power density (mW/cm²)

P: Peak output power at antenna terminal (mW)

G: Numerical Antenna gain

R: Distance of radiation to antenna (cm)

MPE calculation

<i>Frequency (MHz)</i>	<i>Maximum E.I.R.P. (mW)</i>	<i>R (cm)</i>	<i>Power Density S (mW/cm²)</i>	<i>MPE limit (mW/cm²)</i>	<i>% of limit</i>	<i>Limit (%)</i>	<i>Verdict</i>
2402 / 2480 (BLE mode)	2.5 (*)	20	0.0005	1.0	0.05	-	<i>Below MPE limit for uncontrolled exposure</i>
<i>Simultaneous transmissions</i>				<i>SUM =</i>	<i>N/A</i>	<i>100%</i>	

(*): Rated output power including tolerance. (Converted to EIRP)

Conclusion: Therefore the device complies with FCC's RF radiation exposure limits for general population for a mobile device.

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