

RF Exposure Considerations for FCC ID: YCP- 67W611M1A01

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

Frequency (MHz)	Maximum EIRP including tune-up tolerance (mW) (1)	R (cm)	Power Density S (mW/cm ²)	MPE limit (mW/cm ²)	% of limit	Limit (%)	Verdict
2405-2480 (Thread)	23.37	20	0.0432	1.0	4.32	100%	Below MPE limit for uncontrolled exposure
2402-2480 (BT/BLE)	23.37	20	0.0432	1.0	4.32	100%	
2412-2472 (WLAN 2.4G)	25.87	20	0.077	1.0	7.7	100%	
Simultaneous transmissions				SUM =	N/A (2)	100%	

(1): Power value is taken from EIRP (Max Conducted power including tolerance + max antenna gain)

(2): No simultaneous RF transmission

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

Certified By

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FCC Registration Number: 0020356952 (FRN)

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