

RF Exposure Considerations for FCC ID: YCP-MB202900

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 E.I.R.P. (mW) (1)	R (cm)	Power Density S (mW/cm²)	MPE limit (mW/cm²)	% of limit	Limit (%)	Verdict
902-928 DTS	100.0	20	0.0199	0.6	3.31	100%	Below MPE limit for uncontrolle d exposure
<i>Simultaneous transmissions</i>				SUM =	N/A (2)	100%	

(1): Power value is taken from conducted power including tolerance (16dBm±2dB) + 2dBi 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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Applicant for this device:

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