

MPE ESTIMATION

FCC ID: 2AZUG-GGMMR3

1. Limit for Portable Equipment Exposure

Frequency	1-g SAR
100MHz-6GHz	3.0

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot \left[\sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR,}$$
where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

2. Estimation Result

Frequency (MHz)	PK Output Power(dBm)	Output Power(mW)	Test Separation Distance (mm)	Measurement Result	1-g SAR
433.92	-21.97	0.006	5	0.001	3.0
Note: - use the maximum E-field strength(75.38dBuV/m) for the RF exposure evaluation $E(\text{dBuV/m}) = \text{EIRP}(\text{dBm}) - 95.2$ for distance 3m so the $\text{EIRP} = 75.38\text{dBuV/m} - 95.2 = -19.82\text{dBm}$ $\text{EIRP}(\text{dBm}) = \text{ERP} + 2.15\text{dBi}$ so the $\text{ERP} = -19.82\text{dBm} - 2.15\text{dBi} = -21.97\text{dBm}$					

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