RF Exposure evaluation

Product Name: Transmitter FCC ID: M8CTP36RF315

Then SAR evaluation is not required

According to 447498 D01 General RF Exposure Guidance v05 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where ☐ f(GHz) is the RF channel transmit frequency in GHz ☐ Power and distance are rounded to the nearest mW and mm before calculation ☐ The result is rounded to one decimal place for comparison eirp = pt x gt = $(EXd)^2/30$ where: pt = transmitter output power in watts, gt = numeric gain of the transmitting antenna (unitless), $10^{((dBuV/m)/20)}/10^6$ E = electric field strength in V/m, --d = measurement distance in meters (m)---3m So pt = $(EXd)^2/30 \times gt$ Field strength =70.58dBuV/m @3m Ant gain =0dBi ;so Ant numeric gain=1 So pt={ $[10^{(70.58/20)}/10^6 \text{ x3}]^2/30\text{x1} \text{ } \text{x}1000 \text{ mW} = 0.00343 \text{ mW}$ So (0.00343 mW/5mm)x $\sqrt{0.315}\text{GHz} = 0.000384863 < 3$