RF EXPOSURE EVALUATION

Equipment under test: *EDGE Blasting Machine*

FCC ID: *2AUQC-EDGEBM*

Test report reference: *RRA-EMIESS23E175DAV-01A v0*

MPE calculation

These equations are generally accurate in the far field of an antenna but will over predict power density in the near field, where they could be used for making a "worst case" prediction.

$S = PG/4\pi R^2$

Where: S = power density (in appropriate units, e.g. mW/cm²)
P = power input to the antenna (in appropriate units e.g. mW)
G = power gain of the antenna in the direction of interest relative to the isotropic radiator
R = distance to the centre of radiation of the antenna (appropriate units e.g. cm)

Or

$S = EIRP/4\pi R^2$

Where EIRP = equivalent isotropically radiated power

Calculation:

(Calculated for max. EIRP)

EIRP: +6.7 dBm (4.7 mW) for f= 919.187 MHZ

Calculated at distance of 20 cm:

Power density = 0.001 mW/cm²

Limit:
0.61 mW/cm² is the reference level for G Exposure according to Rule part 1.1310(e)

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