

3.8 RF Exposure Compliance

3.8.1 **GSM** Band

MPE Requirement:

S=f/1500 mW/cm² f= operating frequency in MHz S=824/1500=0.55 mW/cm²

Exposure Calculation:

 $S(mW/cm^2) = ERP(mW) / 4\pi D^2$, where

ERP is the maximum measured RF output power with Antenna Gain Antenna Gain = 2.0dBi (per client request ADBM800/1900 MAXRAD antenna was used as a reference antenna)

The maximum ERP power is 32.3dBm + 2.0dBi = 34.3dBm = 2690mW

D = distance of 20cm

 $S = 2690 / 4\pi(20)^2 = 0.535 \text{ mW/cm}^2$

3.8.2 PCS Band

MPE Requirement:

S=1.0mW/cm²

Exposure Calculation:

 $S(mW/cm^2) = EIRP(mW) / 4\pi D^2$, where

EIRP is the maximum measured RF output power with Antenna Gain Antenna Gain = 2.0dBi (per client request ADBM800/1900 MAXRAD antenna was used as a reference antenna)

The maximum EIRP power is 28.4dBm + 2.0dBi = 30.4dBm = 1100mW

D = distance of 20cm

 $S = 1100 / 4\pi(20)^2 = 0.219 \text{ mW/cm}^2$

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