

## Calculation and sample for Confirmation

Dear Reviewer,

As specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure(MPE), Limits for General Population/Uncontrolled Exposure:

Frequency range (MHz)	Power density (mW/cm <sup>2</sup> )
300 – 1,500	f/1500
1,500 – 100,000	1.0

The RF Exposure level is calculated using the general equation:

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

The maximum radiated power output is

800MHz : 23.63 dBm (~0.230 W)

1900MHz: 21.45 dBm (~0.140 W)

R = 20 cm

$\pi$  = 3.1416

Solving for S, the power density at 20 cm is

**CDMA800:** 0.0459 mW/cm<sup>2</sup>

**CDMA1900:** 0.0278 mW/cm<sup>2</sup>

The power density limit is:

For 800MHz: f/1500=824.7/1500=0.5498 mW/cm<sup>2</sup>

For 1900MHz: 1.0 mW/cm<sup>2</sup>

So, the power density is kept.

Please contact us if you have any additional questions.

Best Regards

**Morlab**

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