

MPE Calculation

Dear Application Examiner,

The device with FCC ID: Y2L00001 is categorized as mobile/fixed device, where the device including antenna will be installed with a min separation distance of 20 cm or more from nearby persons.

The maximum permissible exposure is defined in 47 CFR 1.1310.

<i>Frequency Range (in MHz)</i>	<i>Power Density (mW/cm²)</i>
300 – 1,500	f/1500
1,500 – 100,000	1.0

The Power Density Limits are:

GPRS 850 MHz: $(824.2/1500) = \mathbf{0.549}$ mW/cm²

GPRS 1900 MHz: **1.0** mW/cm²

According to the measurements performed in the FCC Test Report SH10080017R01 the max radiated output incl. antenna gain is:

GPRS 850 MHz	0.710 W ERP
GPRS 1900 MHz	0.557 W EIRP

The max. Power Density can be calculated to 0.14 mW/cm² (GPRS 850 MHz) and 0.11 mW/cm² (GPRS 1900 MHz) respectively, so that in both cases the power density limit is well kept.

Please contact us if you have any additional questions.

Best Regards

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