

RF Exposure / MPE Calculation

No.	14480127S
Customer	Sony Group Corporation
Description of EUT	Communication module
Model Number of EUT	M1506GR
FCC ID	AK8M1506GR

Sony Group Corporation declares that Model: M1506GR complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the “M1506GR” as calculated from (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = \frac{P \times G}{4 \times \pi \times r^2}$$

Where

$P =$ 5.15 mW (Maximum average output power)

☒ Time average was used for the above value in consideration of 6-minutes time-averaging

☐ Burst power average was used for the above value in consideration of worst condition.

$G =$ 1.995 Numerical Antenna gain; equal to 3 dBi

$r =$ 20 cm (Separation distance)

Power Density Result $S = 0.00204 \text{ mW/cm}^2$