

RF Exposure / SAR Statement

No. : 26CE0113-HO-3b

Applicant : Sony EMCS Corporation Saitama TEC
Type of Equipment : Digital Stereo Transmitter
Model No. : TMR-RF5000
FCC ID : AK8TMR5000

Sony EMCS Corporation Saitama TEC declares that Model : Digital Stereo Transmitter complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091 (for mobile).

The "TMR-RF5000" has 25.7 mW of conducted Peak Output power and 10.23 mW of EIRP.

This EUT is a mobile equipment and it is used at more than 20 cm distance from human body.

Therefore, SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "TMR-RF5000" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P = 25.70 mW (Maximum peak output power)
G = 0.40 Numerical Antenna gain; equal to -4.00 dBi
r = 20.0 cm

For: TMR-RF5000

S = 0.00204 mW/cm²

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