

Reply to OET RT #12545

1/ Please describe and/or demonstrate compliance with 24.232(b) 2W EIRP.

The device is comprised of an external radio frequency power amplifier with a maximum output power of 2W in the PCS band, a coaxial cable RG58 of at least 15 feet with a loss of at least 4dB at 1.9GHz, and antennas with a gain of less than 3dBi. This device does not exceed the maximum 2W EIRP of Part 24.232(b) according to the data and accessories marketed with this amplifier. The maximum antenna gain and cable loss chosen for the calculations overestimate the maximum EIRP, as found for such applications.

Typical antenna, of the type listed in the user's manual, 15" dual band magnet or glass mount, do not exceed a gain of 3dBi. They would yield a 3 dBi gain if mounted with a perfect ground. However, they are used in applications where the measurement should be made in free space in the case of glass mount and with an imperfect ground plane for magnet mount. The actual rating for such antenna installed on the roof of a vehicle or a window is lower than 3dBi.

2/ The grant note and RF exposure exhibit were revised.