

Environmental evaluation and exposure limit according to FCC CFR 47part 2, §2.1091

The transceiver is classified as mobile, the calculation was done for device combined power, iDEN and SMR operating frequencies.

The transmitter maximum output power in IDEN mode is 209 mW, in SMR mode - 83 mW, total 292 mW (24.65 dBm).

The maximum antenna gain is 10 dBi (7.85 dBd), the 30 feet coax and connector loss is 2 dB.

The composite ERP is:

$24.65 \text{ dBm} + 7.85 \text{ dBd} - 2 \text{ dB} = 30.5 \text{ dBm} = 1.122 \text{ W} < 1.5 \text{ W}$.

The device does meet the FCC part 2, §2.1091 limit.