MPE Calculation
Applicant : RF Controls LLC
Type of Equipment : Frequency Hopper
Model No. : RFC-6100XR
FCC ID : WFQRFC-6100XR / IC ID: 10717A-RFC6100XR

RF Exposure Calculations:

Limits: FCC 2.1091 / RSS-102, Issue 4

The following information provides the minimum separation distance for the highest gain antenna provided with the as calculated from FCC OET Bulletin 65 Appendix A, T able (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 0.6mW/cm^2 uncontrolled exposure limit (6.0W/m^2). The Friis formula used was:

$S = (P * G) / (4 * \pi * r^2)$
Where
P = 893.31mW (Maximum peak output power)
G = 3.55 Numerical Antenna gain; equal 5.5 dBi
r = 20.60 cm
For: WFQRFC-6100XR S = 0.595 mW/cm^2 (5.95W/m^2)