US Tech FCC ID: Test Report Number: Issue Date: Customer:

Model:

FCC Part 15.247 UJX-ROAMMK3MOD1 14-0060 April 7, 2014 Acuity Brands ROAMMK3MOD1

Maximum Public Exposure to RF (MPE) CFR 15.247 (i)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for:

Antenna 1- PIFA (trace antenna)

Peak Power (Watts) = 0.033 (from Table 13 of Test Report) Gain of Transmit Antenna = $2.0 \text{ dB}_i = 1.585$, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

S = (PG/ $4\pi d^2$) = EIRP/4A = 0.033 (1.585)/4* π *0.2*0.2 =0.0523/0.5030 = 0.1039 w/m² = (0.2895 W/m²) (1m²/W) (0.1 mW/cm²) = 0.01039 mW/cm²

which is << less than 1 mW/cm²

Antenna 2- Monopole

Peak Power (Watts) = 0.021 (from Table 13 of Test Report) Gain of Transmit Antenna = $5.0 \text{ dB}_i = 3.162$, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

 $\begin{array}{l} \textbf{S} = (PG/\ 4\pi d^2) = EIRP/4A = 0.021\ (3.162)/4^*\pi^*0.2^*0.2\\ = 0.0664/0.5030 = 0.1320\ w/m^2\\ = (0.5909\ W/m^2)\ (1m^2/W)\ (0.1\ mW/cm^2)\\ = 0.01350\ mW/cm^2 \end{array}$

which is << less than 1 mW/cm²