

RF Exposure Requirements

Product Description: Carbon Monoxide Alarm

Model No.: XC0C-MR

HVIN: XC0C-MR_V1.0

FCC ID: 2AU4DDDA

IC: 32919-AAL

Tx frequency: 915.275 MHz Type of Modulation: FSK

Antenna Type: Spring Antenna

Nominal rated field strength: 86.27 dB μ V/m at 3 meter

Based on the Maximum allowed field strength was 86.27 dB μ V/m at 3m in frequency 915.2752 MHz, thus;

$$\text{The EIRP} = [(FS \cdot D)^2 \cdot 1000 / 30] = 0.1271 \text{ mW}$$

According to the FCC Part 1.1307(b)(3)(i)(A) and KDB 447498 D04v01, a single RF source is exempt RF device if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

According to the RSS-102 Issue 6 Table 11, a single RF source is an exempt RF device if the maximum time-average power available at a separation distance of 50mm or larger does not exceed 298mW, regardless of separation distance.

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.