Visonic Ltd.

FCC ID:WP3SMD429PG2

Exposure limit according to §15.247(i)

The smoke detector is classified as a mobile device.

The FCC limit for power density for general population/uncontrolled exposure is f/1500 mW/cm² for 300 – 1500 MHz frequency range:

 $P = 912.75/1500 = 0.61 \text{ mW/cm}^2$

The power density **P (mW/cm²) = P_T / 4** π r²

P_T is the transmitted power, which is equal to the peak transmitter output power 11.37 dBm plus maximum antenna gain (-2) dBi, the maximum equivalent isotropically radiated power EIRP is

P_T = 11.37 dBm + (-2) dBi = 9.37 dBm = 8.7 mW.

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

Compliance with FCC limit: 8.7 mW / 4π (20 cm)² = 0.002 mW/cm² << 0.61 mW/cm²

General public cannot be exposed to dangerous RF level.