REGULATORY COMPLIANCE REPORT

TITLE: FCC & IC RF Exposure Report

Zigbee® Digital Transmission Device (DTS), 2.405 - 2.475 GHz

(product model: 2.4ZRB Gas Range Extender, Itron part numbers: OWR-1001-001)

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REV	CCO	DESCRIPTION OF CHANGE	DATE	APPROVALS	
1				Engineering	Douglas Knoll
				Regulatory	Jay Holcomb

REVISION HISTORY

				Engineering		
				Regulatory		
				Engineering		
				Regulatory		
				Engineering		
				Regulatory		
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1.1310 & 2.1091 / RSS-102 Maximum Permissible Exposure (MPE)

Determine the maximum power density for the general / uncontrolled population minimum separation distance of 20 cm.

FCC Limit: $f > 1500 \text{ MHz} = 1 \text{ mW/cm}^2$;

IC Limit: f=1500 to 15000 MHz = 10W/m²

The power density is calculated as:

$$P_d = \frac{P_t \times G}{4 \times \pi \times r^2}$$

 P_d = power density in milliwatts/cm² P_t = transmit power in milliwatts G = numeric antenna gain r = distance between body and transmitter in centimeters.

Other Technical Information: Antenna Type: Omni Antenna Gain: 1 (0dBi) Transmitter Power (Conducted): 43mW Frequency: 2440 MHz

results: $P_D = (43x \ 1) / (4x \ pi \ x \ 20 \text{cm}^2) =$

0.00855mW/cm² @ 20cm

0.0855W/m² @ 0.2M