

RF Exposure Information:

From the operational description

Specification	Value
Frequency	2400 – 2483.5 MHz
Modulation	FHSS
Sequence	Pseudo Random
No of hopping Channels	93
Channel Spacing	0.864 MHz
Number of frequency hops per second	100
Number of slots per hop	24
Maximum number of slots used for transmit	2
Hop Dwell Time	10 ms
Slot transmit time (micro seconds)	416 μ S
Transmit power on slot	100mW (+20 dBm)

From test data, the slot transmit time measured is 402.5 μ S.

The worst-case duty-cycle for the transmitter (with dual-slot transmission)

$$(100 * 416 \mu\text{S} * 2) / 1\text{sec} = 0.0832 = 8.32\%$$

Measured peak EIRP = 135mW

$$\text{Average Effective Output Power} = 135\text{mW} * 8.32\% = 11.232\text{mW}$$

This level is below the low threshold for general population power limit for RF exposure near the body.

$$\text{Low threshold} = 60 / f(\text{GHz}) = 60 / 2.45 = 24\text{mW}$$

The device complies with 15.247(b)(5) without the need of SAR evaluation.