



Noninvasive Medical Technologies

January 11, 2008

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NMT FRN: 0017312117
Grantee Code: VXZ
FCC ID: VXZNMT-NCIQ1
FCC EMC: FCC 15.247

To Whom It May Concern:

Noninvasive Medical Technologies requests an original limited modular approval for a Free scale Zigbee 2.4 GHz radio in their model NMT-NcIQ (also referred to as NcIQ). The NMT-NcIQ is intended for sale within the United States of America, Canada, and Europe. This new innovation measures and reports critical hemodynamic data of casualties or patients as well as their location which is reported to an electronic platform such as a laptop or PDA, used by the medic or first responder.

The 2.4 GHz radio can be co-located with a 915MHz radio. Within the device are two intentional radiators; 1. a new innovation referred to as the Transducer Antenna Probe (TAP) (915MHz) that is connected to the Radio Frequency Impedance Interrogator (RFII) circuit, and 2. the Freescale radio (2.4GHz) and antenna. The TAP and RFII circuit measure reflected impedance from the anatomical structures within the thorax. The bottom side of the device is placed over the area of the heart on the chest and is intended for use on the outside of the clothes or directly on the chest. This statement indicates that the correct utilization of the device is for measurement within 20cm of the chest.

The TAP sends the 915 MHz signal into the chest and receives a return signal which is analyzed by the RFII circuitry and sent to an atmel. The atmel analyzes the signal,

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measuring heart rate, respirations, cardiac output and the change in trend of these three medical signs reported as Life Score. The data reported to the electronic platform used by the medic or clinician is sent from the Freescale radio at 2.4GHz.

The intended clinical environments are first responders, fire fighters, medics, hazmat teams, and emergency crews during disaster response. Once FCC approval and all product safety requirements have been tested and met, NMT will submit the NMT-NcIQ for FDA 510K approval.

Thank you,

Ann McCaughan

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