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July 25, 2002

Steve Dayhoff
FCC Application Processing Branch

Re: FCC ID QBI-1002
Applicant: Cardionet
Correspondence Reference Number: 23367
731 Confirmation Number: EA405725

Dear Mr. Dayhoff,

With follow up to your questions that I received today from Judy Evans at TUV.

SDayhoff: *Please correct the User Manual RF Exposure statement regarding the SAR test distance of 4 cm from the body. Since the SAR testing was performed with the device touching the phantom, this would be misleading.*

CardioNet: We successfully went through our SAR testing and the Caution information is incorrect. We are not a mobile device we are a portable. If you review again the SAR measurements made we are far below the maximum allowable. Which is to say that our device can be used in the hand, worn about the waist or carried in a purse or trousers.

SDayhoff: *Is the antenna the same as in the sensor?*

CardioNet: Both the Sensor and the Monitor use an identical TRF 6900 Transceiver chipset by Texas Instruments. The perimeter components are the same. After our saw filter the antennas are match to into 50 ohms. The Sensor uses an external dipole while the Monitor uses a internal dipole.

SDayhoff: *Explanation of the transceiver*

CardioNet: Our wireless ISM communication link for the frequencies covering 902MHz to 928MHz are identical circuits for both the Sensor (QBI-1001) and our Monitor (QBI-1002). This can be observed by reviewing our schematics which were submitted along with all our test data for the emissions portion of our testing.

Our ISM data transmission is as follows: The Sensor is worn by the Patient and with defined placement location for the electrodes will pick up the ECG or electrical impulses from the heart which then transmitted wirelessly to our Monitor (QBI-1002) which receives the data being transmitted and stores the arrhythmic information. Our RF circuit for accomplishing this is a TRF 6900 transceiver chip produced by Texas Instruments. This device integrates both digital and RF technologies to form a frequency agile transceiver for half-duplex for the RF data link. It operates in the North American (902 – 928 MHz) ISM bands at an output power level of less than a milliwatt.

With the frequency of 3 to 4 times a day the information stored in the Monitor will be sent to our Monitoring Center wirelessly over the CDPD network with an on-board CDPD wireless modem we purchase from Novatel Wireless who is the end manufacturer who FCC ID number is NBZNRM-6832.

SDayhoff: *Need the separate schematics for the transceivers.*

CardioNet: Below is the Sensor Sch.

Below is the Monitor Sch.

Acrobat Document

Acrobat Document

Please feel free to contact me with any concerns or question you may have to assist in you approval process.

Best regards,



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