

Analysis Report

Report No.: 180800266TWN-001

The Equipment Under Test, Vcell is a 2.4GHz Transceiver (ECG monitor) for ECG Remote Event Monitor operating at 2466MHz. The EUT is powered by AC-DC adaptor. The Vcell must be paired with a Vpod before the system is used to allow the patient's ECG data to be sent to the Vpatch website. The Vcell communicates with the Vpod through 2.466GHz transceiver. It transmits data to internet through FCC certified modular of FCC ID: 2ARNZ-1003. There are **NO** events where the modular and the 2.466GHz transceiver are working simultaneously.

Antenna Type: PCB printed F-type antenna

Antenna Gain: 0.0dBi

Production tolerance: -2.0dB (Minimum) to +3.0dB (Maximum)

According to the KDB 447498:

Based on the Maximum allowed radiated power of production tolerance was +3.0dB in frequency 2.466GHz, thus;

Maximum radiated power (EIRP) is 0.14mW, thus;

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 0.14mW.

The SAR Exclusion Threshold Level:

= $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$

= $3.0 * 5 / \text{sqrt}(2.466) \text{ mW}$

= 9.55 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.