## **Analysis Report**

The Equipment Under Test (EUT), is a portable 2.4GHz BLE Transceiver (Watch Unit) for a Bluetooth Watch. The sample supplied operated on 40 channels, normally at 2402 - 2480MHz. The channels are separated with 2MHz spacing.

The Equipment Under Test (EUT), is a portable 2.4GHz BR/EDR Transceiver (Watch Unit) for a Bluetooth Watch. The sample supplied operated on 79 channels, normally at 2402 - 2480MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 1 x 3.7V Rechargeable battery. After switching on the EUT, the watch will provide recording and gaming functions based on the virtual buttons pressed on the watch.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 99.3dBμV/m at 3m (Peak), 83.5dBμV/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

According to the KDB 447498:

Based on the maximum average field strength of production tolerance was  $86.5 dB\mu V/m$  at 3m in frequency 2.402 GHz.

Thus, it below calculated field strength according to minimum SAR exclusion threshold level as follows:

The worst case of SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.483.5) mW
- = 9.52 mW

According to the KDB 412172 D01:

 $EIRP = [(FS*D) ^2*1000 / 30]$ 

Calculated Field Strength for 9.52mW is 105dBuV/m @3m

Since maximum average field strength plus production tolerance < = 105dBuV/m @3m and antenna gain is > = 0.0dBi, it is concluded that maximum Conducted Power and Field Strength are well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.