

Analysis Report

The equipment under test (EUT) Model: RotoHT001 is the Head Tracker of the VR Chair which contains a Bluetooth BLE module operating in the 2402MHz to 2480MHz band (2MHz channel spacing, 40 channels). The EUT will transmit RF signal to the corresponding Base of VR Chair when a person triggering the motion sensor of the Head Tracker. The EUT is powered by internal rechargeable battery. The USB port is for charging purpose only and has no data transfer function.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated RF conducted power: -1 dBm

Maximum allowed production tolerance: +/- 2 dB

Frequency range: 2402MHz to 2480MHz (40 channels)

According to the KDB 447498:

Conducted Power (max)

= 1 dBm

= 1.26 mW

The SAR Exclusion Threshold Level:

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

= $3.0 * 5 / \sqrt{2.480}$ mW

= 9.53 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.