Analysis Report

The Equipment Under Test (EUT) is a VERSASTACK™ RADIO + CHARGER. It can accept analog input source (3.5mm phone jack aux-in), tuner and wireless Bluetooth device. The audio signal is amplified and fed to the built-in passive loudspeakers. The EUT is powered by an AC/DC adaptor (24VDC 2A) and/or 20VDC rechargeable battery. The EUT has an USB port (for charging purpose only). The adaptor can accept 120VAC only.

2.4GHz Bluetooth Module: Modulation Type: GFSK

Antenna Type: Integral, Internal

Antenna gain: 2.6dBi

Bluetooth 4.0 BLE

Nominal EIRP power range: 0dBm to +6.6dBm

Bluetooth 3.0

Nominal EIRP power range: 0dBm to +6.6dBm

According to the KDB 447498:

Conducted power = Radiated Power (EIRP) - Antenna Gain

= 6.6 dBm - 2.6 dBi

So;

Conducted Power = 4 dBm (2.51 mW)

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(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.