Analysis Report

The Equipment Under Test (EUT) operates at frequency range from 2405MHz to 2475MHz with using the following channel, 2405MHz, 2445MHz, 2451MHz, 2454MHz, 2458MHz, 2462MHz, 2467MHz, 2570MHz and 2475MHz.The EUT is powered by 4x 1.5V AA batteries.

Antenna Type: Internal antenna
Antenna Gain: 0dBi
Nominal rated field strength: 95.2 dBμV/m at 3m
Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 98.2dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP = [(FS*D) ^2*1000 / 30] = 1.982mW

Conducted power = Radiated Power (EIRP) – Antenna Gain
So;

Conducted Power =1.982mW.

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.475) 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.