

## INTERTEK TESTING SERVICES

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### Analysis Report

The equipment under test (EUT) is a Compact Performance PA System with Bluetooth operating 2402-2480MHz. The EUT can be powered by AC 100V, 110-120V, 220-240V, 50/60Hz. For more detailed features description, please refer to the user's manual.

Modulation Type: GFSK,  $\pi/4$ DQPSK, 8DPSK

Antenna Type: Integral antenna (Gain: 2 dBi)

The nominal radiated output power (e.i.r.p) specified: 5dBm (Tolerance: +/-3dB)

The nominal conducted output power specified: 3dBm (Tolerance: +/-3dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 99.8dB $\mu$ V/m at 3m  
=  $[(FS \cdot D)^2 / 30]$  mW  
= 4.6dBm which is within the production variation

The maximum conducted output power specified is 6dBm = 4.0mW

The source- based time-averaging conducted output power  
= 4.0 \* Duty cycle mW  $\leq$  4.0 mW (Duty Cycle $\leq$ 100%)

The SAR Exclusion Threshold Level:

= 3.0 \* (min. test separation distance, mm) /  $\sqrt{\text{freq. in GHz}}$   
= 3.0 \* 5 /  $\sqrt{2.480}$  mW  
= 9.5 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.