

# Analysis Report

Report No.: 14091295HKG-001

The DR263 is a Smartphone Operated Dalek. It can pair with a Bluetooth device as the audio source and control by Dalek's control apps. It operates at frequency range of 2402MHz-2480MHz (79 channels with 1MHz channel spacing). The EUT is powered by internal 6VDC 4 x AA battery.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 84.7 dB $\mu$ V/m at 3m

Maximum allowed field strength of production tolerance: +4 to -6dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 88.7 dB $\mu$ V/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS \cdot D)^2 \cdot 1000 / 30] = 0.222\text{mW}$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 0.222mW.

The SAR Exclusion Threshold Level:

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

=  $3.0 \cdot 5 / \sqrt{2.48} \text{ mW}$

= 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.