

Analysis Report

The Equipment Under Test (EUT), is a RFID transceiver for a toy house which operates at a single channel 13.56MHz.

The EUT is powered by an AC/DC adaptor. After switching on EUT, it emits sound and light when figures are put onto the EUT.

Antenna Gain: 0 dBi

Frequency Range: 13.56MHz

Peak Radiated range: 33.0 dBµV/m to 39.0dBµV/m

According to the KDB447498 D01 v06:

Radiated Power (maximum)
= 39.0 dBµV/m (0.00000240 mW)

The SAR Exclusion Threshold Level 13.56MHz when the minimum test separation distance is < 50mm:
= $[474 * (1 + \log_{10}(100/f(\text{MHz})))]/2$
= $[474 * (1 + \log_{10}(100/13.56))]/2$ mW
= 442.65 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.