Analysis Report

The Equipment Under Test (EUT) is a Force Link Starter Set, which contains a 13MHz NFC reader. The EUT is powered by 3 X 1.5V AAA batteries. After placing the tags on the EUT, the EUT will recognize the tags with sending out different sound effects.

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength: 72.8 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 75.8 dBµV/m at 3m in frequency 13.56MHz, thus;

The EIRP = $[(FS*D)^2*1000 / 30] = 0.011mW$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So:

Conducted Power = 0.011mW.

The SAR Exclusion Threshold Level for 13.56MHz when the minimum test separation distance is < 50mm:

= [474 * (1 + log100/f(MHz))]/2

= 442.7 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.