

Analysis Report

Report No.: 22090947HKG-001

The Equipment Under Test (EUT), is a Hardware wallet device which consists of a 13.56MHz NFC card reader. The EUT is powered by USB-Type C port (5VDC)

13.56MHz NFC portion (single channel)

Antenna Type: Internal, Integral

Antenna Gain: 0 dBi

Nominal field strength: 62.2 dB μ V/m @ 3m (-33 dBm)

Maximum allowed production tolerance: +10dB / -10dB

RF conducted power range: -43 dBm to -23 dBm

According to the KDB 447498 D01 v06:

Based on the Maximum allowed field strength of production tolerance was -23 dBm in frequency 13.56MHz, thus;

Conducted Power = 0.005 mW.

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

$$= [474 * (1 + \log_{10}(f/\text{MHz}))]/2$$

$$= 442.7 \text{ mW}$$

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.