

## NFC Exposure Requirements

---

Product Description: Smart Mobile Payment Terminal

Model No.: A99

FCC ID: V5PA99

According to the KDB 447498 D04 V01, clause 1.4.2, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

Tx frequency: 13.56 MHz Type of Modulation: ASK

Antenna Type: Loop Antenna

Nominal rated field strength: 55.81 dB  $\mu$ V/m at 3 meter

Based on the Maximum allowed field strength was 55.81 dB $\mu$ V/m at 3m in frequency 13.56MHz, thus;

The EIRP =  $[(FS \cdot D)^2 \cdot 1000 / 30] = 0.000114 \text{ mW}$

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

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

$$= 442.65 \text{ mW}$$

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.