RF Exposure Requirements

Product Description: NFC Module Model No.: B20FDU6 FCC ID: 2AQ5RNFCB20FDU6

According to the KDB 447498 D01 V06, clause 4.3, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

13.56 MHz

Tx frequency: 13.56 MHz Type of Modulation: ASK Antenna Type: Integral antenna (Gain: 0 dBi) Nominal rated field strength: 48 dBµV/m at 3m Maximum allowed field strength of production tolerance: +/- 1dB

Based on the Maximum allowed field strength of production tolerance was 49 $dB\mu V/m$ at 3m in frequency 13.56MHz, thus;

The EIRP = [(FS*D) ^2*1000 / 30] =0.00002 mW Thus; Conducted power = Radiated Power (EIRP) – Antenna Gain So;

Conducted Power = 0.00002 mW. The SAR Exclusion Threshold Level for 13.56MHz when the minimum test separation distance is < 50mm: = [474 * (1 + log100/f(MHz))]/2 = 443mW

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.