Exhibit: RF Exposure – FCC

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RF Exposure – FCC

The device contains a 0.125MHz RFID transmitter and the minimum separation distance from the radiating structure to any part of the body or extremity of a user is 5mm during normal operation.

General SAR test exclusion guidance:

As per FCC KDB 447498 Section and 4.3.1 c) 2), the 10-g extremity SAR Test Exclusion Threshold is given by

{[Power allowed at *numeric threshold* for 50 mm in step 4.3.1 a)] + [(test separation distance – 50 mm)·($f_{(MHz)}$/150)]} { ½ [1 + log(100/$f_{(MHz)}$)] }mW

Where:
Test separation distance is 50 mm and f = 100MHz.

Which results in
½ [Power allowed at *numeric threshold* for 50 mm in step 4.3.1 a)] mW

SAR Calculations: 0.125 MHz RFID transmitter

The power allowed for *numeric threshold* of 7.5, for f = 0.1 GHz, and for a min. test distance of 50 mm

$$\frac{(max.power, mW)}{(min.test\ distance, mm)} \times \sqrt{f} = 7.5$$

$$(max.power, mW) = \frac{7.5 \times 50\ mm}{\sqrt{0.1}}$$

$$(max.power, mW) = 1185.8\ mW$$

And therefore, ½ power allowed is 592.9 mW.

The EIRP was calculated from field strength measurement at 3m using ANSI C63.10:2013 Section 9.5, Equation 22 and guidance from Annex G.

EIRP = E_{Meas} – 95.2

The 0.125MHz transmitter has a field strength of 74.5 dBuV/m @ 3 m
EIRP = 74.5 – 95.2 = -20.7 dBm = 0.008 mW

SAR Exclusion Threshold condition is met with peak EIRP.