

# STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

## EQUIPMENT

Type of equipment: 13.56 MHz RFID reader  
Brand name: Arcontia  
Type / Model: T2  
Manufacturer: Lepic Arcontia AB  
By request of: Lepic Arcontia AB

## STANDARD

47 CFR §2.1091, 47 CFR §1.1307, 47 CFR §1.1310, KDB 447498 D01 v05r02

## CALCULATIONS

Measured field strength from 10 m/distance is 43.3 dB $\mu$ V/m

EIRP is calculated with following formula

$$\text{EIRP} = ((E \cdot d)^2) / 30 = -41.47 \text{ dBm} = 7.12 \cdot 10^{-5} \text{ mW}$$

E = field strength (V/m)

d = measurement distance (m)

EUT antenna has no gain therefore conducted power is also  $7.12 \cdot 10^{-5} \text{ mW}$

According to KDB 447498 D01, the 1-g SAR exemption limit for 13.561 MHz and at separation of 5mm is 443 mW. Output power is well below the limit and EUT is exempted from SAR testing.

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