ATTACHMENT B to File No.: T37444-01-00HU

Maximum permissible exposure (MPE)

1.1

For test instruments and accessories used see section 6 Part CPC 2.

1.1.1 Description of the test location

Test location: AREA4

1.1.2 Applicable standard

According to FCC Part 15, Section 15.247(i):

Systems operating under the provisions of this section shall be operated in a manner that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

The test methods used comply with ANSI/IEEE C95.1, "IEEE Standard for Safety Levels with respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz".

This test report shows the compliance with the limits for Maximum Permissible Exposure (MPE) specified in FCC Part 1, Section 1.1310 and the criteria to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in FCC Part 1, Section 1.1307(b).

1.1.3 Description of Measurement

The maximum total power input to the antenna has been measured conducted as described in clause 5.3 of this document. Through the Friis transmission formula, the known maximum gain of the antenna and the maximum power, the MPE can be calculated in a defined distance away from the product.

Friis transmission formula: $P_d = \frac{P_{out} * G}{4 * \Pi * r^2}$

where

 P_d =power density (mW/cm²) P_{out} = output power to antenna (mW) G = gain of antenna (linear scale) r = distance between antenna and observation point (cm)

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1.1.4 Test result

a.) Power setting 27.0 dBm

Following antennas are provided with the UHF Reader:

- PoS on Desk RFID only Gain: < -10 dBi
- PoS on Desk RFID + RF combined Gain: < -10 dBi
- PoS under Desk RFID only Gain: < -10 dBi
- PoS under Desk RFID + RF Gain: < -10 dBi
- PoS under Desk shielded RFID only Gain: < -10 dBi
- PoS on Desk Detacher RFID only Gain: not applicable

Channel	Frequency	Max power output to		Antenna gain	Power density	Limit of power
No.		antenna				density
	(MHz)	(dBm)	(mW)	(dBi)	(mW/cm ²)	(mW/cm ²)
1	902.25	27.11	514.044	-10.0	0.0102	0.602
26	915.25	26.96	496.592	-10.0	0.0099	0.610
50	927.25	26.87	486.407	-10.0	0.0097	0.618

Limits for maximum permissible exposure (MPE):

Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time				
Range	Strength	Strength	(mW/cm ²)	(minutes)				
(MHz)	(V/m)	(A/m)						
(B) Limits for General Population / Uncontrolled Exposure								
0.3 - 3.0	614	1.63	100	30				
3.0 - 30	824/f	2.19/f	180/ f ²	30				
30 - 300	27.5	0.073	0.2	30				
300-1500			f/1500	30				
1500-100000			1.0	30				

f = Frequency (MHz)

The requirements are **FULFILLED**.

According to FCC Rules 47CFR 2.1093(b) the EUT is not a portable device. The EUT is designed to be used that radiating structures are more than 20 cm outside of the body of the user. (r = 20 cm).

<u>Note:</u> The manufacturer shall state in the manual the minimum cable length for each antenna. Aditionally this shall be stated on the label of the EuT.

Remarks:			