COMPLIANCE ENGINEERING IRELAND LTD

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Project Number: 16E6335-3a

Prepared for:

Accessa Control Technologies Ltd

By

Compliance Engineering Ireland Ltd

Clonross Lane

Derrockstown

Dunshaughlin

Co. Meath

**FCC Site Registration: 92592**

FCC ID: 2AILRUSBRD

**Date**

23rd Jun 2016

FCC EQUIPMENT AUTHORISATION

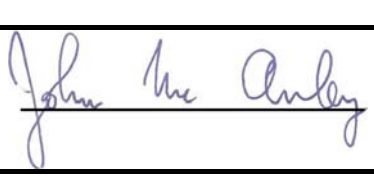
Test Report

**EUT Description**

USB RFID multiformat Reader

**Authorised :**

**John McAuley**



# RF Exposure Exhibit– Technical Report

## 1.0 Maximum Permissible Exposure (MPE) for 13.56MHz transmitter

### 1.1 MPE

$$S = \frac{PG}{4\pi R^2}$$

where:

S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

| | | |
|---|---|---|
| Radiated Field Strength at 3m | 73.11 | dBuV/m |
| Power Conversion factor for antenna distance 3m | -95.2 | dB |
| | | |
| Tune up factor | 0 | dB |
| Time Averaging Factor | 0 | dB |
| EIRP Peak | -22.1 | dBm |
| EIRP Peak | 0 | mW |
| | | |
| Prediction distance: | 20 | cm |
| Prediction frequency: | 13.56 | MHz |
| MPE limit for Uncontrolled/General Population exposure at prediction frequency: | 0.98 | mW/cm^2 |
| | | |
| Power density at prediction frequency: | 0.000002 | mW/cm^2 |
| Power density at prediction frequency: | 0.000020 | W/m^2 |
| | | |
| Test Result | Pass | |
| | | |

End of Report