

# STATEMENT OF EXPOSURE TO ELECTROMAGNETIC FIELDS

**No. 400919**

## EQUIPMENT

|                   |                          |
|-------------------|--------------------------|
| Type of equipment | Bluetooth Barcode reader |
| Type / Model      | RF 650                   |
| Manufacturer      | Nordic ID                |
| By request of:    | Nordic ID                |

## DIRECTIVE / STANDARD

OET Bulletin 65, supplement C

## CALCULATIONS

According to the manufacturer the product has an EIRP of less 10 mW and the operator shall not be any closer than (R) 5 cm to the transmitter's antenna.

A worst case calculation is as follows:

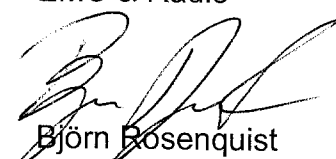
$$S = \frac{4 \times EIRP}{4 \times \pi \times r^2} \quad (\text{Power density with 100 \% reflection})$$

$$S = 4 \times 10 / (4 \times \pi \times 5^2) = 0,127 \text{ mW/ cm}^2$$

Limit according to OET Bulletin 65, supplement C for power density at 2,4 GHz is 1 mW/ cm<sup>2</sup>. In considering the calculations above it is determined that the requirements according to the referred standard is fulfilled without testing.

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