

STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

EQUIPMENT

Type of equipment:	RFID Card Reader
Brand name:	AXIS / ASSA
Type / Model:	AXIS A4010-E READER / ASSA Pando Mini RS485
Manufacturer:	ASSA AB
By request of:	ASSA AB

STANDARD

47 CFR §1.1310
RSS-102 Issue 5

CONDITIONS

Operating frequency is 13.56 MHz.

Highest output power to antenna is 8.02 dBm.

We assume that transmitter is ideal and all power is fed to the antenna with a worst case gain of 0 dBi.

A test separation distance of 5 mm is used.

CALCULATIONS

$$1 \text{ mW} * 10^{(8.02 \text{ dBm} / 10)} = 6.34 \text{ mW}$$

LIMITS & EVALUATIONS:

Standard	Reference for limit	Limit	Unit	Values	Result
CFR 47 §1.1310	KDB 447498 D01 ¹	1476	mW	6.34	PASS
RSS-102 issue 5 (2015)	RSS-102 issue 5 (2015) ²	71	mW	6.34	PASS

1. KDB 447498 D01 §4.3.1c(2) SAR test exclusion test threshold < 50mm and <100 MHz is determined by the following:

$$P_{\max} = (3 \times 50 / \sqrt{0,1}) \times (1 + \log(100/f(\text{MHz}))) / 2$$

2. RSS 102 Issue 5 (2015) Section 2.5.1, Table 1: Exemption limits for routine evaluation based on frequency and separation distance

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Date of issue: 2016-11-07



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