

RE-21-C774-EVO-1-A Ed. 0

MPE test report

According to the standard:

CFR 47 FCC PART 15

Equipment under test:

MODULE RFID 13.56 MHz

FCC ID: ZFX0011

Company:

EVOLIS

Distribution: Mrs BEAUDUSSEAU

(Company: EVOLIS)

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DESIGNATION OF PRODUCT: *MODULE RFID 13.56 MHz*

Serial number (S/N): N/A

Reference / model (P/N): CP013463

Software version: *Macro Excel*

MANUFACTURER: EVOLIS

COMPANY SUBMITTING THE PRODUCT:

Company: EVOLIS

Address: 14, avenue de la Fontaine
ZI ANGERS BEAUCOUZE
49070 BEAUCOUZE - FRANCE

Responsible: Mr Serge

DATE(S) OF TEST: From 7-Jul-21 to 8-Jul-21

TESTING LOCATION: EMITECH ANGERS laboratory at JUIGNE SUR LOIRE (49) FRANCE
FCC Accredited under US-EU MRA Designation Number: FR0009
Test Firm Registration Number: 873677

TESTED BY: T. LEDRESSEUR

VISA:



WRITTEN BY: T. LEDRESSEUR

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REVISIONS HISTORY

Revision	Date	Modified pages	Modifications
0	9-Jul-21	/	Creation

1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: **MODULE RFID 13.56 MHz**, in accordance with normative reference.

2. PRODUCT DESCRIPTION

Category of equipment (ISED): I

Class: B

Utilization: Radio module destined to be used only by EVOLIS

Antenna type and gain: 0 dBi / dedicated antenna

Operating frequency range: From 13.110 MHz to 14.010 MHz

Number of channels: 1

Channel spacing: Not concerned

Modulation: ASK

Power source: The workbench is powered at 230Vac by AC/DC Adapter,

Power level, frequency range and channels characteristics are not user adjustable.
The details pictures of the product and the circuit boards are joined with this file.

3. NORMATIVE REFERENCE

The standards and testing methods related throughout this report are those listed below.

They are applied on the whole test report even though the extensions (version, date and amendment) are not repeated.

CFR 47 (2021)	Radio Frequency Devices
ANSI C63.10	2013 Procedures for Compliance Testing of Unlicensed Wireless Devices.
447498 D01 General RF Exposure Guidance v06	RF Exposure procedures and equipment authorization policies for mobile and portable equipment
OET BULLETIN 65	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields

4. RF EXPOSURE

MPE

Maximum measured power = 42.36 dB μ V/m = 0.437×10^{-6} mW at 13.56 MHz

with $P = (E \times d)^2 / (30 \times G_p)$ with $d = 10$ m and $G_p = 1$

In accordance with KDB 447498 D01 General RF Exposure Guidance v06:

$$PSD = EIRP / (4 \times \pi \times R^2)$$

$$0.437 \times 10^{-6} / (4 \times \pi \times (20 \text{ cm})^2) = 87 \times 10^{-12} \text{ mW/cm}^2 \text{ (limit = 0.978 mW/cm}^2)$$

The equipment fulfils the requirements on power density for general population/uncontrolled exposure and therefore fulfils the requirements of 47 CFR §1.1310.