

REM-EMIESS25B839SKF-01Av1

This report cancels and replaces the test report N° REM-EMIESS25B839SKF-01Av0

## MPE test report

According to the standard:

CFR 47 FCC PART 15

Equipment under test:

*WEM-200/US*

*WEM-200/32*

*WEM-200/EU*

FCC ID: 2AJ99-WEM200

Company:

SKF FRANCE SAS

Distribution: Mrs THOMAS

(Company: SKF FRANCE SAS)

Number of pages: 7

| Ed. | Date     | Modified<br>Page(s) | Technical Verification and<br>Quality Approval |                                                                                       |
|-----|----------|---------------------|------------------------------------------------|---------------------------------------------------------------------------------------|
|     |          |                     | Name and Function                              | Visa                                                                                  |
| 1   | 9-Oct-25 | 1, 2, 3             | M. DUMESNIL, Radio Laboratory Manager          |  |

Duplication of this document is only permitted for an integral photographic facsimile. It includes the number of pages referenced here above.

This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole manufactured products of the tested sample.

Information in italics are declared by the manufacturer/customer and are under his responsibility

**DESIGNATION OF PRODUCT:**

*Sample 1: WEM-200/US*  
*Sample 2: WEM-200/32*  
*Sample 3: WEM-200/EU*  
*Sample not tested: WEM-200/USPP*  
*Sample not tested: WEM-200/32PP*  
*Sample not tested: WEM-200/EUPP*

**Serial number (S/N):**

*Sample 1: C4BD6A 0105 F7*  
*Sample 2: C4BD6A 0105 F2*  
*Sample 3: C4BD6A 0106 1B*

**Reference / model (P/N):** WEM-200

**Software version:** BSS11

**MANUFACTURER:** SKF FRANCE

**COMPANY SUBMITTING THE PRODUCT:**

**Company:** SKF FRANCE

**Address:** 204 BOULEVARD CHARLES DE GAULLE  
TSA 40208  
37540 SAINT CYR SUR LOIRE  
FRANCE

**Responsible:** Mrs THOMAS

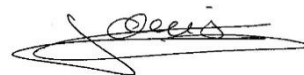
**Person(s) present during the tests:** Mr GRATEAU

**DATES OF TEST:** From 3-Jun-25 to 5-Jun-25

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

**TESTED BY:** S. LOUIS

**VISA:**

A handwritten signature in black ink, appearing to read "Oasis", with a long horizontal stroke extending to the right.

**WRITTEN BY:** S. LOUIS

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## REVISIONS HISTORY

| Revision | Date      | Modified pages | Modifications                                                    |
|----------|-----------|----------------|------------------------------------------------------------------|
| 0        | 10-Jun-25 | /              | Creation                                                         |
| 1        | 09-Oct-25 | 1, 2, 3        | Add of Three variants : WEM-200/USPP, WEM-200/32PP, WEM-200/EUPP |

## 1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: **WEM-200/US**, **WEM-200/32**, **WEM-200/EU**, in accordance with normative reference.

The devices under test integrate a BLE radio function not already certified.

The host device of certified module(s) shall be properly labeled to identify the module(s) within.

## 2. PRODUCT DESCRIPTION

|                            |                                              |
|----------------------------|----------------------------------------------|
| Class:                     | B                                            |
| Utilization:               | Industrial                                   |
| Antenna type and gain:     | Integrated Antenna (Maximum gain: -6.53 dBi) |
| Operating frequency range: | From 2400 MHz to 2483.5 MHz                  |
| Number of channels:        | 40                                           |
| Channel spacing:           | 2MHz                                         |
| Nominal Channel bandwidth: | 2 MHz                                        |
| Modulation:                | GFSK                                         |
| Power source:              | 3Vdc by battery                              |

### Nominal Operating Frequencies:

|              |            |            |
|--------------|------------|------------|
| Sample N°= 1 | ⇒ 2402 MHz | Full tests |
| Sample N°= 1 | ⇒ 2426 MHz | Full tests |
| Sample N°= 1 | ⇒ 2480 MHz | Full tests |

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 (2025) | Radio Frequency Devices |
|---------------|-------------------------|

|             |                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------|
| ANSI C63.10 | 2020 + Corrigendum (2023) + Amendment 1 (2024)<br>Procedures for Compliance Testing of Unlicensed Wireless Devices. |
|-------------|---------------------------------------------------------------------------------------------------------------------|

|                                                |                                                                                                  |
|------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 447498 D01 General RF<br>Exposure Guidance v06 | RF Exposure procedures and equipment authorization policies for mobile and<br>portable equipment |
|------------------------------------------------|--------------------------------------------------------------------------------------------------|

#### 4. RF EXPOSURE

##### Sample N° 1

##### MPE

Maximum measured power = 89.5 dBμV/m = 1.75 mW at 2480 MHz  
with  $P = (E \times d)^2 / (30 \times G_p)$  with  $d = 3$  m and  $G_p = -8.17$

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

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

$$\Rightarrow 1.75 / (4 \times \pi \times (20 \text{ cm})^2) = 349 \times 10^{-6} \text{ mW/cm}^2 \text{ (limit = 1 mW/cm}^2\text{)}$$

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

##### Sample N° 2

##### MPE

Maximum measured power = 89.4 dBμV/m = 1.75 mW at 2480 MHz  
with  $P = (E \times d)^2 / (30 \times G_p)$  with  $d = 3$  m and  $G_p = -8.27$

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

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

$$\Rightarrow 1.75 / (4 \times \pi \times (20 \text{ cm})^2) = 349 \times 10^{-6} \text{ mW/cm}^2 \text{ (limit = 1 mW/cm}^2\text{)}$$

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

Sample N° 3

MPE

Maximum measured power = 90.7 dB $\mu$ V/m = 1.59 mW at 2402 MHz  
with  $P = (E \times d)^2 / (30 \times G_p)$  with  $d = 3$  m and  $G_p = -6.53$

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

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

$$\Rightarrow 1.59 / (4 \times \pi \times (20 \text{ cm})^2) = 315 \times 10^{-6} \text{ mW/cm}^2 \text{ (limit = 1 mW/cm}^2\text{)}$$

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

□□□ End of report □□□