

REM-EMIESS24F200AST-02Av0

MPE test report

According to the standard:

CFR 47 FCC PART 15

Equipment under test:
IZAR OH BT3

FCC ID: **2AO2B-IZAROHBT3**

Company:
ASTEELFLASH

Distribution: Mr Patrick SALMET

(Company: ASTEELFLASH)

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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: *IZAR OH BT3*

Serial number (S/N): Prototype (BT address: D8:47:8F:37:D6:69)

Reference / model (P/N): *IZAR OH BT3*

Software version: Not communicated

MANUFACTURER: *DIEHL METERING*

COMPANY SUBMITTING THE PRODUCT:

Company: ASTEELFLASH

Address: 8 rue de Gâtel
61250 VALFRAMBERT
FRANCE

Responsible: Mr Patrick SAMLET

COMPANY CERTIFYING THE PRODUCT

Company: DIEHL METERING

Address: Industriestraße 13 91522 Ansbach
GERMANY

DATE(S) OF TEST: From 5-Feb-25 to 7-Feb-25

TESTING LOCATION: EMITECH LYON laboratory at CHASSIEU (69) FRANCE

FCC Accredited under US-EU MRA Designation Number: FR0013
Test Firm Registration Number: 807590

ISED Accredited under CANADA-EU MRA Designation Number: FR0007
Industry Canada Registration Number: 4379D

TESTED BY: T. LEDRESSEUR

VISA: 

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REVISIONS HISTORY

Revision	Date	Modified pages	Modifications
0	09-Mar-25	/	Creation

1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment ***IZAR OH BT3***, in accordance with normative reference.

The equipment under test integrates:

- BLE transceiver radio part module not already certified,

2. PRODUCT DESCRIPTION

Category of equipment (ISED): I

Class: B

Utilization: Residential use

Antenna type and gain: 0.5 dBi / integral ceramic antenna

Operating frequency range: From 2400 MHz to 2483.5 MHz

Number of channels: 40

Channel spacing: 2MHz

Modulation: GFSK

Test frequencies:

Frequencies tested:

Sample N°= 1 ⇒ 2402 MHz Full tests

Sample N°= 1 ⇒ 2440 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	2013 Procedures for Compliance Testing of Unlicensed Wireless Devices.
447498 D04 Interim General RF Exposure Guidance v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

4. RF EXPOSURE

Maximum Permissive Exemption according paragraph 1.1310(3)(B) of CFR 47 FCC

Maximum measured EIRP = 3.7 dBm = 0.0023W at 2440 MHz

ERP = EIRP -2.15 dBm = 3.7 – 2.15 = 1.55 dBm => 1.43 mW

ERP = 1.43 mW

In accordance with KDB 447498 D04 Interim General RF Exposure Guidance v01, ERP limit is given by the following formulas:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

For a distance of 5 mm

Pth = 2.73mW (Limit)

**The ERP of the product is below the applicable limit
The equipment fulfils the requirements on SAR-Based Exemption according §1.1307(b)(3)(i)(B).**

□□□ End of report □□□