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EMITECH MONTPELLIER laboratory
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RF EXPOSURE TEST REPORT

KDB 447498 D01 V06
RSS-102 - Issue 6, December 2023

Company : **TELECOM DESIGN S.A.**
Address..... : 2 BIS RUE NULLY DE HARCOURT
33610 CANEJAN
FRANCE

Test item description : **FALL DETECTOR**
Trade Mark : TELECOM DESIGN
Manufacturer..... : TELECOM DESIGN S.A.
Model/Type reference..... : VB-WTC-10 / Vibby Oak S
FCC ID..... : 2AGMK-WTC10
Ratings..... : 3 VDC

Testing Laboratory : **EMITECH MONTPELLIER laboratory**
Address..... : 145 rue de Massacan
34740 VENDARGUES
FRANCE

Report Reference No...... : **RE-EVE-25D053-2A**
Test procedure : FCC IC Certification
Diffusion..... : Mr FARADI
Applicant's name : TELECOM DESIGN S.A.
Date of issue..... : April 7, 2026
Total number of pages..... : 10
Revision..... : 0
Compiled by..... : Morgan PATEY
Approved by (+ signature)..... : Olivier HEYER (Deputy Laboratory Manager)



*Duplication of this test report 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.*

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REVISION HISTORY:

Revision	Date	Modified pages	Modifications
0	April 7, 2026	/	Creation

1. GENERAL INFORMATION

This document submits the results of Radio tests performed on the equipment **Connected necklace/bracelet Vibby Oak** (denominated hereafter E.U.T.: equipment under test) according to document(s) listed in §2 of this test report.

TESTING PROCEDURE AND TESTING LOCATION:					
Testing Location : EMITECH MONTPELLIER laboratory Address : 145 rue de Massacan 34740 VENDARGUES FRANCE Test procedure : FCC Certification Tested by : Alexis TOUZET and MorgaN PATEY Test supervisor : Olivier AELBRECHT Date of receipt of test item : N/A Date (s) of performance of tests : From June 02 nd to 13 th of 2025 and from January the 29 th to February the 4 th of 2026					
APPLICANT'S GENERAL INFORMATION:					
Company name : TELECOM DESIGN S.A. Company address : 2 BIS RUE NULLY DE HARCOURT 33610 CANEJAN FRANCE Person(s) present during the tests : No representative for company attended the tests. Responsible : Mr FARADI					
GENERAL REMARKS:					
The information in italics is declared by the manufacturer and is under his responsibility The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report the decimal separator is point.					
POSSIBLE TEST CASE VERDICTS:					
Test case does not apply to the test object .: N/A Test case not performed : N/P Test object does meet the requirement : P (Pass) Test object does not meet the requirement . F (Fail) :					
DEFINITIONS AND ABBREVIATIONS:					
E.U.T.	Equipment Under Test	AE	Ancillary Equipment	Pk	Peak detector
RBW	Resolution BandWidth	VBW	Video BandWidth	QP	Quasi-peak detector
FSOATS	Free Space Open Area Test Site	FAR	Full Anechoic Room	Av	Average detector
VP	Vertical Polarization	HP	Horizontal Polarization	RMS	Root Mean Square
RF	Radio Frequency	N.T.R	Nothing To Report	N/C	Not Communicated
SAC	Semi Anechoic Chamber				

2. REFERENCE DOCUMENT(S)

NORMATIVE REFERENCES:

The following referenced documents are necessary for the application of the present test report.

FCC 47 CFR PART 15

Code of federal regulations – Title 47 telecommunication

Part 15- Radio frequency devices

KDB 447498 D01 v06

RF exposure procedures and equipment authorization policies for mobile and portable devices.

RSS-102 - Issue 6, December 2023

Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

RR-EVE-25D053-5A (for SRD tests) and RR-EVE-25D053-4A (for BLE tests in USA only) and RR-EVE-25D053-7A (for BLE tests for Canada and USA)

Radio Test Reports Emitech.

Although the product standard uses obsolete technical standards, the latest versions of standards achievable by the laboratory will be used for testing.

INFORMATIVE REFERENCES:

The following referenced documents are not necessary for the application of the present test report but they assist the user with regard to a particular subject area.

3. EQUIPMENT TECHNICAL DESCRIPTION

3.1. Test Conditions

Test item description. : FALL DETECTOR
Model/Type reference..... : VB-WTC-10 / Vibby Oak S
Trade Mark. : TELECOM DESIGN
Serial number (S/N)..... : Not communicated
Part number (P/N). : Not communicated
Software version..... : *Not communicated*
Firmware version. : *SOFT5408*
Type of sample. : Pre-serial
Function(s)..... : Transmit an alert to a call centre via a telecare device installed in the house.

Manufacturer name. : TELECOM DESIGN S.A.
Address. : 2 BIS RUE NULLY DE HARCOURT
33610 CANEJAN
FRANCE

General product information:

N/A

3.2. E.U.T. General view



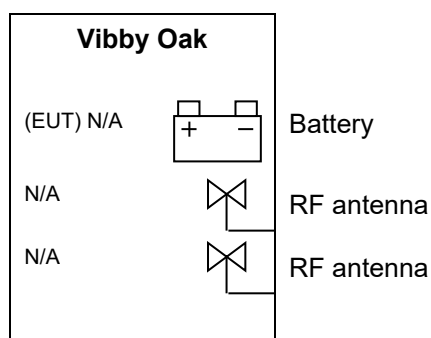
3.3.E.U.T. Mechanical and Electrical Design

Power supply. : 3 VDC
Power supply range..... : 2.55Vdc to 3.45Vdc
Power type..... : Battery
Power (W)..... : Not communicated
Nominal current (A). : Not communicated
Dimensions (L x W x H) (m). : Not communicated
Weight (kg). : Not communicated
Temperature range (°C). : -20 to +55
Ground bounding strap..... : No

Comments:

N/A

3.4.E.U.T. Input/Output ports



PORT	NAME	TYPE	LENGTH	CABLE TYPE	COMMENTS
0	Main frame	N/E	N/A	Plastic	N/A
1	Battery	DC	N/A	N/A	3 VDC
2	RF antenna	RF	N/A	N/A	906 MHz
3	RF antenna	RF	N/A	N/A	2.4 GHz

AC/DC : AC/DC Converter port AC : Alternative current port DC : Direct current port
I/O : Input or Output port TP..... : Telecommunication port RF..... : Radio frequency port
N/E : Non Electrical port

3.5. EUT Radio Specifications (SDR radio)

a) GENERAL INFORMATIONS	
According to manufacturer's declarations :	
EUT type.....	<i>Transceiver</i>
Technology	<i>SRD</i>
Environmental profile.....	<i>Data transmissions</i>
Temperature range	<i>-20°C to +55°C</i>
Antenna type	<i>Integrated</i>
Antenna Gain.....	<i>-10 dBi</i>
Comments:	
<i>N/A</i>	
b) TRANSMITTER PARAMETERS (Tx)	
Frequency bands.....	<i>902 MHz to 928 MHz</i>
RF Power.....	<i>Not communicated</i>
Number of channels / Separation.....	<i>3 channels</i>
Modulation type	<i>GFSK</i>
Duty cycle	<i>Not communicated</i>
Tested frequency.....	<i>902.050MHz (Low channel)</i>
	<i>915 MHz (Mid channel)</i>
	<i>927.950MHz (High channel)</i>
c) RECEIVER PARAMETERS (Rx)	
Frequency bands.....	<i>902 MHz to 928 MHz</i>
Category/Class	<i>Not communicated</i>
Bandwidth	<i>Not communicated</i>

3.6. EUT Radio Specifications (BLE radio)

a) GENERAL INFORMATIONS	
According to manufacturer's declarations :	
EUT type.....	<i>Transceiver</i>
Technology	<i>Bluetooth</i>
Environmental profile.....	<i>Data transmissions</i>
Temperature range.....	<i>-20°C to +55°C</i>
Antenna type	<i>Integrated</i>
Antenna Gain.....	<i>-4 dBi</i>
Comments:	
<i>N/A</i>	
b) TRANSMITTER PARAMETERS (Tx)	
Frequency bands.....	<i>2400 MHz to 2483.5 MHz</i>
RF Power.....	<i>Not communicated</i>
Number of channels / Separation.....	<i>40 channels / 2MHz</i>
Modulation type	<i>GFSK</i>
Duty cycle	<i>Not communicated</i>
Tested frequency.....	<i>2402 MHz</i>
	<i>2426 MHz</i>
	<i>2480 MHz</i>
c) RECEIVER PARAMETERS (Rx)	
Frequency bands.....	<i>2400 MHz to 2483.5 MHz</i>
Category/Class	<i>Not communicated</i>
Bandwidth.....	<i>Not communicated</i>

4. RF EXPOSURE

4.1. SRD radio

Maximum field strength is 88.3 dB μ V/m at 3m (see Radio test report referenced in §2)

Then we can calculate maximum **EIRP = 0.20 mW** and maximum **ERP = 0.12mW** at **902.05 MHz**

For USA

In accordance with KDB 447498 D01 Appendix A, as **ERP** is lower than **15.79 mW at 902.05 MHz**, SAR exemption for FCC can be considered for a distance ≤ 5 mm.

For Canada

In accordance with RSS-102, Issue 6, Section 6.3., as **EIRP** is lower than **16.37 mW at 902.05 MHz**, SAR exemption for ISED can be considered for a distance ≤ 5 mm.

4.2. BLE radio

Maximum **EIRP** = 6.25 dBm (**4.22 mW**) and maximum **ERP** = **2.27 mW** at **2402 MHz** (see Radio test report referenced in §2)

For USA

In accordance with KDB 447498 D01 Appendix A, as **ERP** is lower than **9.68 mW at 2402 MHz**, SAR exemption for FCC can be considered for a distance ≤ 5 mm.

For Canada

In accordance with RSS-102, Issue 6, Section 6.3., as **EIRP** is lower than **4.26 mW at 2402 MHz**, SAR exemption for ISED can be considered for a distance ≤ 5 mm.

4.3. Conclusion

It is therefore not necessary to carry out measurements to assess human exposure to radiofrequencies.

●●● End of test report ●●●