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EMITECH MONTPELLIER laboratory
Registration Number: 954701
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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: **Redundant communication interface for the central security unit**
Trade Mark: TELECOM DESIGN
Manufacturer.....: TELECOM DESIGN S.A.
Model/Type reference.....: TD-AJV-04 / AJV4
FCC ID.....: 2AGMK-AJV04
IC: 21552-AJV04
Ratings.....: 2.9Vdc to 4.8Vdc

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

Report Reference No: **RE-EVE-25G417-1A**
Test procedure: FCC IC Verification
Diffusion.....: Mr FARADI
Applicant's name: TELECOM DESIGN S.A.
Date of issue.....: February 18, 2026
Total number of pages.....: 11
Revision: 0
Compiled by.....: Morgan PATEY
Approved by (+ signature): Olivier AELBRECHT (Technical 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	February 18, 2026	/	Creation

1. GENERAL INFORMATION

This document submits the results of Radio tests performed on the equipment **Redundant communication interface for the central security unit TD-AJV-04** (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 IC Verification			
Tested by		Morgan PATEY			
Test supervisor		None			
Date of receipt of test item		N/A			
Date (s) of performance of tests		From January the 12 th to the 15 th of 2026			
APPLICANT'S GENERAL INFORMATIONS:					
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: sept. 2025

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-25G417-1A

Emitech Radio Test Report relating to the EUT's SRD (Side Walk) tests.

RR-EVE-25G417-2A

Emitech Radio Test Report relating to the EUT's BLE tests.

RR-EVE-25G417-3A

Emitech Radio Test Report relating to the EUT's LTE-M & NB-IoT tests.

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. : Redundant communication interface for the central security unit
Model/Type reference..... : TD-AJV-04 / AJV4
Trade Mark. : TELECOM DESIGN
Serial number (S/N)..... : 0005C410
Part number (P/N). : Not communicated
Software version..... : *FAC 2.2.0*
Firmware version. : *Not communicated*
Type of sample. : Pre-serial
Function(s)..... : Jamming detector, SOS button, Displays environmental value
Manufacturer name. : TELECOM DESIGN S.A.
Address. : 2 BIS RUE NULLY DE HARCOURT
33610 CANEJAN
FRANCE

General product information:

N/A

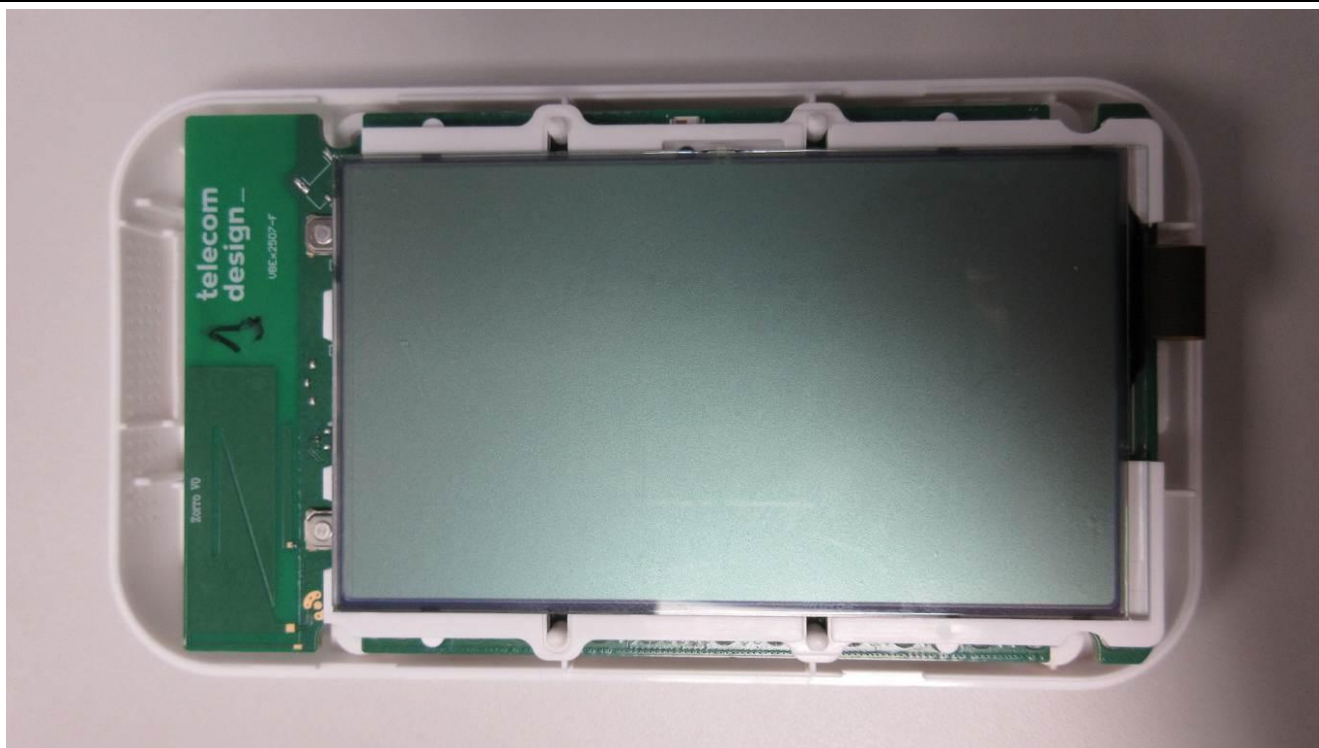
3.2. E.U.T. Marking plate

EUT didn't have its marking plate during tests

3.3.E.U.T. General view



3.4. E.U.T. Internal view



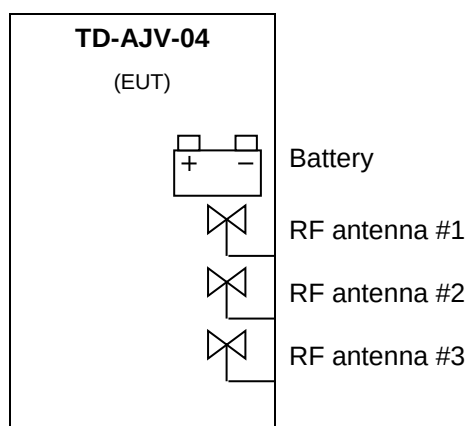
3.5.E.U.T. Mechanical and Electrical Design

Power supply. : 4.5Vdc
Power supply range..... : 2.9Vdc to 4.8Vdc
Power type..... : Internal 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). : -10 to +50
Ground bounding strap..... : No

Comments:

N/A

3.6.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	4.5 Vdc
2	RF antenna #1	RF	N/A	N/A	SRD (Side Walk / 915MHz)
3	RF antenna #2	RF	N/A	N/A	BLE
4	RF antenna #3	RF	N/A	N/A	LTE-M & NB-IoT

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

3.7.Supporting Equipment Used During Test

Sample subject to the tests was tested with following equipment.

PRODUCT TYPE	MANUFACTURER	MODEL	N°EMITECH / COMMENTS
Laptop	Not communicated	Not communicated	Used to set EUT operating mode

3.8. EUT Radio Specifications

a) GENERAL INFORMATIONS	
According to manufacturer's declarations :	
EUT type.....	Transceiver
Technology	SRD (Side Walk) + Bluetooth Low Energy (BLE) + LTE-M & NB-IoT
Environmental profile.....	Data transmissions
Temperature range	-10°C to +50°C
Antenna type	Integrated
Antenna Gain.....	0 dBi for SRD and 0.5 dBi for BLE
Comments:	
<i>EUT includes an RF module already certified, see appropriate tests report for full testing results.</i>	
FCC ID: HSW-TY1SCDM	
IC: 4492A-TY1SCDM	
b) TRANSMITTER PARAMETERS (Tx) SRD	
Frequency bands.....	902 MHz to 928 MHz
RF Power.....	Not communicated
Number of channels / Separation.....	Not communicated
Modulation type	Not communicated
Duty cycle	Not communicated
Tested frequency.....	902.5 MHz (Side Walk / Low channel) 915 MHz (Side Walk / Mid channel) 927.5 MHz (Side Walk / High channel)
c) TRANSMITTER PARAMETERS (Tx) BLE	
Frequency bands.....	2400 MHz to 2483.5 MHz
RF Power.....	Not communicated
Number of channels / Separation.....	40channels / 2MHz
Modulation type	Not communicated
Duty cycle	Not communicated
Tested frequency.....	2402 MHz (BLE / Low channel) 2440 MHz (BLE / Mid channel) 2480 MHz (BLE / High channel)

d) TRANSMITTER PARAMETERS (Tx) LTE-M & NB-IoT

Frequency bands..... : *LTE-M & NB-IoT / Band 2 : 1850 MHz to 1910 MHz*
LTE-M & NB-IoT / Band 4 : 1710 MHz to 1755 MHz
LTE-M & NB-IoT / Band 5 : 824 MHz to 849 MHz
LTE-M & NB-IoT / Band 12 : 699 MHz to 716 MHz
LTE-M & NB-IoT / Band 13 : 777 MHz to 787 MHz
LTE-M & NB-IoT / Band 25 : 1850 MHz to 1915 MHz
LTE-M & NB-IoT / Band 26 : 814 MHz to 849 MHz

RF Power..... : *Not communicated*

Modulation type : *Not communicated*

Tested frequency..... : *LTE-M & NB-IoT / Band 2 : 1880 MHz*
LTE-M & NB-IoT / Band 4 : 1732.5 MHz
LTE-M & NB-IoT / Band 5 : 836.5 MHz
LTE-M & NB-IoT / Band 12 : 707.5 MHz
LTE-M & NB-IoT / Band 13 : 782 MHz
LTE-M & NB-IoT / Band 25 : 1882.5 MHz
LTE-M & NB-IoT / Band 26 : 831.5 MHz

4. RF EXPOSURE

4.1. For USA

In accordance with KDB 447498 D04 Appendix B.3 and FCC Part 2.1091:

$$ERP_{20cm}(mW) = \begin{cases} 2040f & \text{for } 0.3GHz \leq f < 1.5GHz \\ 3060 & \text{for } 1.5GHz \leq f \leq 6GHz \end{cases}$$

Thanks to test report in §2 of this document :

Configuration	Frequency (MHz)	Max EIRP (dBm)	Max ERP (W)	Limit (W)
SRD	915	20.60	0.19	1.8
BLE	2402	-0.38	0.00	3.06
LTE-M & NB-IoT / Band 2	1880	20.20	0.17	3.06
LTE-M & NB-IoT / Band 4	1732.5	20.96	0.20	3.06
LTE-M & NB-IoT / Band 5	836.5	21.38	0.22	1.67
LTE-M & NB-IoT / Band 12	707.5	22.07	0.26	1.42
LTE-M & NB-IoT / Band 13	782	26.07	0.66	1.56
LTE-M & NB-IoT / Band 25	1882.5	20.48	0.18	3.06
LTE-M & NB-IoT / Band 26	831.5	21.66	0.24	1.66

It is therefore not necessary to carry out other specific measurements to assess human exposure to radiofrequencies when the product is used more than 20 cm from the human body.

4.2. For Canada

In accordance with RSS-102, Issue 6, Section 6.6., the maximum EIRP must be lower than $1,31 \times 10^{-2} f^{0,6834}$

Thanks to test report in §2 of this document :

Configuration	Frequency (MHz)	Max EIRP (dBm)	Max EIRP (W)	Limit (W)
SRD	915	20.60	0.11	1.38
BLE	2402	-0.38	0.00	2.68
LTE-M & NB-IoT / Band 2	1880	20.20	0.10	2.26
LTE-M & NB-IoT / Band 4	1732.5	20.96	0.12	2.14
LTE-M & NB-IoT / Band 5	836.5	21.38	0.14	1.3
LTE-M & NB-IoT / Band 12	707.5	22.07	0.16	1.16
LTE-M & NB-IoT / Band 13	782	26.07	0.40	1.24
LTE-M & NB-IoT / Band 25	1882.5	20.48	0.11	2.27
LTE-M & NB-IoT / Band 26	831.5	21.66	0.15	1.3

It is therefore not necessary to carry out measurements to assess human exposure to radiofrequencies when the product is used more than 20 cm from the human body.

End of test report