

TEST REPORT

Ref. n.	MPETR_186849-0	Issue Date:	30/10/2025	Pages:	8
Test object	Type test according to Standards FCC Cfr 47 part 2 - Subpart J - §2.1093				
Applicant	Vodafone Automotive S.p.A. Via Astico 41 - 21100 Varese - Italy Tel.: +39 0332 825111; +39 0332 825238				
Trade mark					
Manufacturer	Vodafone Automotive S.p.A.				
Product	Driver card				
Testing model	2761				
FCC identification number	NWD2761				
Date of test samples receipt	01/09/2025				
No. of tested samples	1 – Sampled by the Manufacturer				
Test date	05/09/2025				
Testing site	PRSLAB S.r.l. Unipersonale - Via Campagna 92 - 22020 Faloppio - Como - Italy				
FCC designation number	IT0012				
Verifications carried out by	Daniele Aosani Laboratory Engineer				
Approved by	Luana Parisi Reviewer				

The test results reported in this test report shall refer only to the samples tested.

The sample has been provided by the customer and the results apply to the sample as received.

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PRSLAB refuses any responsibility about information provided by the customer contained in this test report.

Any not Accredited test methods are clearly identified in the test report.

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0. RELEASE CONTROL RECORD

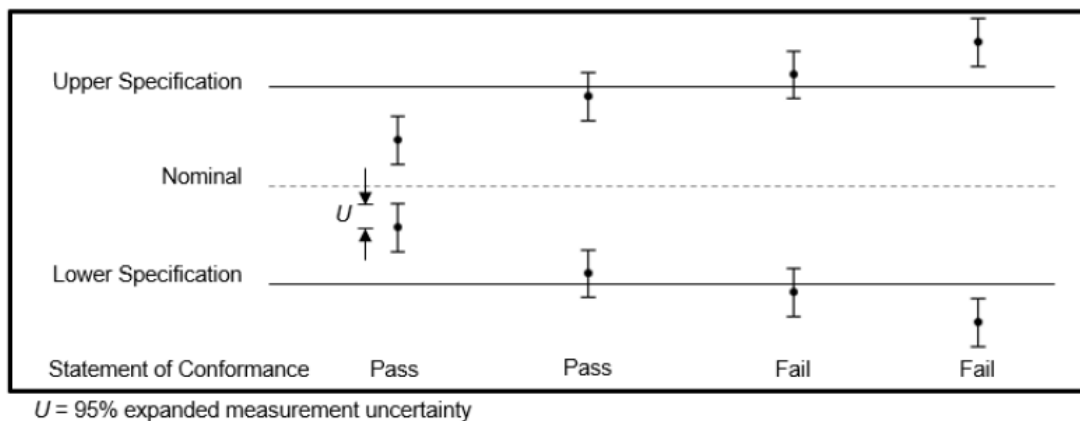
TEST REPORT NUMBER	REASON OF CHANGE	DATE OF ISSUE
MPETR_186849-0	Original release	30/10/2025

This document is valid in last revision that deletes and replaces the previous one

1. DECISION RULE

PRS LAB specifies that, if the decision rules of conformity of the test results are not indicated in detail in the standard/s object of tests, it takes as a decision rule for the declaration of conformity the simple binary system ($w = 0$) stated in the ILAC-G8-09:2019 document.

The decision rule is applicable for all parts of standard



Statements of conformity are reported as:

- Pass: the measured value is below the acceptance limit, $AL=TL$.
- Fail: the measured value is above the acceptance limit, $AL=TL$.

Definitions

- Guard Band (w): interval between a tolerance limit and a corresponding acceptance limit where length $w=|TL-AL|$.
- Tolerance Limit (TL) (Specification Limit): specified upper or lower bound of permissible values of a property.
- Acceptance Limit (AL): specified upper or lower bound of permissible measured quantity values.

2. INFORMATION PROVIDED BY CUSTOMER

- None

3. GENERAL REMARKS

- None

4. TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT)

4.1 EUT Identification

DESCRIPTION	Driver card
MODEL NAME	2761
FCC ID	NWD2761
SERIAL NO.	NA
PRSLAB INTERNAL REFERENCE	BC 196/2025 6/8
TRADEMARK	
MANUFACTURER	Vodafone Automotive S.p.A.
COUNTRY OF MANUFACTURER	Italy
SINGLE UNIT OR SYSTEM	Single
POWER SOURCE	Internal battery CR2032
POWER SUPPLY NOMINAL VOLTAGE	3Vdc
MAX POWER or MAX ABSORBED CURRENT	Data not provided
OPERATING TEMPERATURE	-10°C ÷ +55°C
SOFTWARE VERSION (Information provided by Customer)	2761-102
HARDWARE VERSION (Information provided by Customer)	4C2761ACC
EUT STANDING	☐ WALL; ☐ CEILING; ☐ TABLE; ☐ FLOOR; ☐ RACK MOUNTED; ☐ BODY WORN; ☐ HANDELD; ☒ PORTABLE; ☐ MOBILE; ☐ VEHICLE
DIMENSIONS	40 mm x 55 mm x 6 mm
HIGHEST INTERNAL FREQUENCY (Information provided by Customer)	☐ F<108MHz; ☐ 108MHz<F<500MHz; ☐ 500MHz<F<1GHz; ☒ F>1GHz

4.2 Short range device module technical data

CHIP MANUFACTURER	 TEXAS INSTRUMENTS
CHIP MODEL	CC2510
ETS CATEGORY	Short range device (SRD)
TYPE OF RADIO DEVICE	Transmitter
FREQUENCY BAND	2400MHz ÷ 2483.5MHz
NUMBER OF CHANNELS	1
OPERATING FREQUENCY	2480MHz
CHANNEL BANDWIDTH	1MHz
CHANNEL SPACING	---
TYPE OF MODULATION	MSK
DATA RATE	12Mbps
ANTENNA TYPE (Information provided by Customer)	PCB printed antenna
ANTENNA GAIN (Information provided by Customer)	NA

4.3 Ports identification

	PORT	DESCRIPTION	CONNECTION	NOTES
☒	Enclosure	Plastic	Snaps	---
☐	AC power port	Port not present	---	---
☒	DC power port	Interna battery	---	---
☐	Signal/control port	Port not present	---	---
☐	Telecommunication port	Port not present	---	---
☒	Antenna port	☒ Internal; ☐ External	---	---

Note: During the tests all cables must be what provided the manufacturer or the same that used in the real employment of the EUT.

4.4 Modifications incorporated in E.U.T.

The following items are the modifications introduced in the equipment under test:

- None

4.5 Auxiliary equipment

- None

5. REFERENCE STANDARDS

REFERENCE STANDARD	DESCRIPTION
47 CFR FCC Part 2 Subpart J §2.1093	Radiofrequency radiation exposure evaluation: portable devices.
47 CFR FCC Part 1 Subpart I §1.1310	Radiofrequency radiation exposure limits.
KDB 447498 D01 v06	RF Exposure procedures and equipment authorization policies for mobile and portable devices
ANSI C63.10:2020; ANSI C63.10:2020/Cor.1:2023	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

6. MEASUREMENTS AND CALCULATION RESULTS

6.1 RF Exposure Conditions

The driver card model **2761** is a communication device based on generic intentional radiator technology intended to be used in portable applications. It is necessary a calculation for portable use demonstrating that the transmitter can be excluded from SAR testing.

6.2 FCC Calculation method and limits

Exclusion Threshold Extremity SAR: 7.5 (10-g extremity SAR):

$$\frac{EIRP}{d} * \sqrt{f} \leq 7.5$$

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 (for 1-g body SAR) or 7.5 (for 10-g extremity SAR)

where respectively

f RF channel transmits frequency (GHz)

EIRP Effective Isotropic Radiated Power (mW)

d Evaluation distance (mm)

The result is rounded to one decimal place for comparison

6.3 RF Output Power and FCC Calculation results

EUT has the following operating configuration:

- Technology Generic Intentional Radiator (DXX)
- Frequency 2480MHz
- Measured Output Power (included tune up tolerance): 0,018 mW
- Minimum test separation distance: 5mm

Calculation and Exclusion Threshold Extremity SAR: 7.5 (10-g extremity SAR)

$$\frac{0.018mW}{5mm} * \sqrt{2.480} = 0.006 \leq 7.5$$

RESULT: This device has been excluded from SAR testing.

END OF TEST REPORT