

TEST REPORT

Ref. n.	MPETR_187795-0	Issue Date:	23/06/2026	Pages:	8
Test object	Type test according to Standards FCC Cfr 47 part 2 - Subpart J - §2.1093				
Applicant	Datamars SA Via Industria 16 - 6184 Lamone - Switzerland				
Trade mark	Tru-Test™ DATAMARS				
Manufacturer	Datamars SA				
Product	Active ear TAG				
Testing model	EARTAG-1				
FCC identification number	NDX-EARTAG				
Date of test samples receipt	12/05/2026				
No. of tested samples	1 – Sampled by the Manufacturer				
Test date	12/05/2026				
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.

TABLE OF CONTENTS

0.	RELEASE CONTROL RECORD	3
1.	DECISION RULE	3
2.	INFORMATION PROVIDED BY CUSTOMER.....	3
3.	GENERAL REMARKS	3
4.	TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT).....	4
4.1	EUT Identification	4
4.2	Radio module technical data	5
4.3	Ports identification.....	6
4.4	Modifications incorporated in E.U.T.....	6
4.5	Auxiliary equipment.....	6
5.	REFERENCE STANDARDS	6
6.	MEASUREMENTS AND CALCULATION RESULTS	7
6.1	RF Exposure Conditions	7
6.2	FCC Calculation method and limits	7
6.3	RF Output Power and FCC Calculation results	7

0. RELEASE CONTROL RECORD

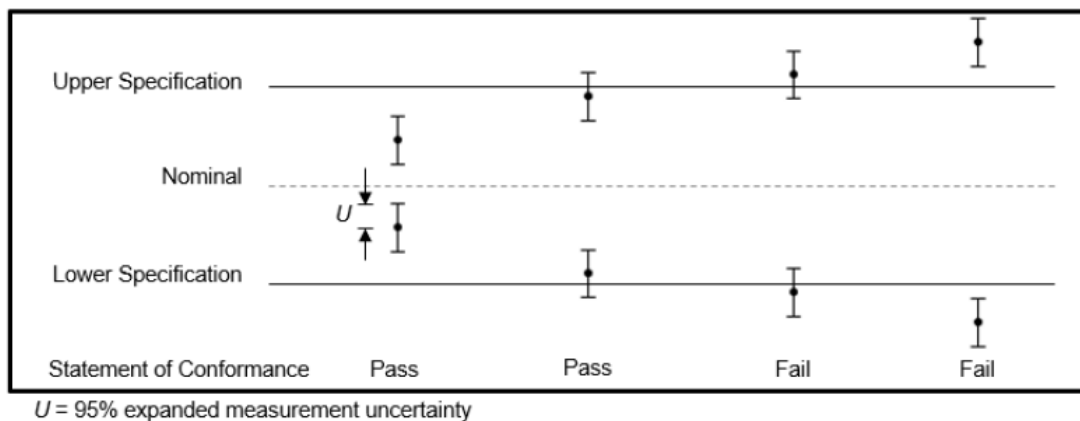
TEST REPORT NUMBER	REASON OF CHANGE	DATE OF ISSUE
MPETR_187795-0	Original release	23/06/2026

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

- EUT was provided with external serial port used to set radio channels, this cable is not present in the final EUT.

4. TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT)

4.1 EUT Identification

DESCRIPTION	Active ear TAG
MODEL NAME	EARTAG-1
FCC ID	NDX-EARTAG
NODE ID	14099
PRS LAB INTERNAL REFERENCE	BC 128/2026 8/14
TRADEMARK	Tru-Test™ DATAMARS
MANUFACTURER	Datamars SA
COUNTRY OF MANUFACTURER	Switzerland
SINGLE UNIT OR SYSTEM	Single
POWER SOURCE	Internal battery model CR2477 manufactured by PANASONIC
POWER SUPPLY NOMINAL VOLTAGE	3Vdc
MAX ABSORBED CURRENT OR MAX POWER	NA
OPERATING TEMPERATURE	-10°C ÷ +55°C
FIRMWARE VERSION (Information provided by Customer)	2.6.8
HARDWARE VERSION (Information provided by Customer)	V1.2 (HW20)
DIMENSIONS	See photographic documentation
EUT STANDING	☐ WALL; ☐ CEILING; ☐ TABLE; ☐ FLOOR; ☐ RACK MOUNTED; ☐ BODY WORN; ☐ HANDELD; ☐ PORTABLE; ☐ MOBILE; ☐ VEHICLE; ☒ LIVESTOCK
HIGHEST INTERNAL FREQUENCY (Information provided by Customer)	☐ <108MHz; ☐ 108MHz<F<500MHz; ☐ 500MHz<F<1GHz; ☒ F>1GHz
ANCILLARY EQUIPMENT	☐ YES; ☒ NO
ENVIROMENT (According to ETSI EN 301 489-1 V2.2.3)	☐ FIXED-USE; ☐ VEHICLE USE; ☒ PORTABLE USE

4.2 Radio module technical data

CHIP MANUFACTURER	 SEMTECH
MODEL NAME	SX1280
ETS CATEGORY	Short Range Device
TYPE OF RADIO DEVICE	TX only
FREQUENCY BAND	2402 ÷ 2480MHz
NUMBER OF CHANNELS	40
CHANNEL BANDWIDTH	1.2MHz
CHANNEL SPACING	2MHz
TYPE OF MODULATION	GFSK
TRANSFER RATE	2 Mbps
ANTENNA TYPE (Information provided by Customer)	PCB Antenna
ANTENNA GAIN (Information provided by Customer)	0.7dBi

4.3 Ports identification

	PORT	DESCRIPTION	CONNECTION	NOTES
☒	Enclosure port	Plastic	Snap	---
☐	AC mains power port	Port not present	---	---
☒	DC power port	Internal battery		
☐	Wired network port	Port not present	---	---
☐	Signal/control 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

- Auxiliary laboratory laptop used to set radio channels.

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 Active ear TAG model **EARTAG-1** 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):

$$\frac{EIRP}{d} * \sqrt{f} \leq 3$$

[(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 Low power technology (DXX)
- Frequency 2440MHz
- Measured Output Power (included tune up tolerance): 0.989 mW
- Minimum test separation distance: 5mm

Calculation and Exclusion Threshold Extremity SAR: 3 (1-g body SAR)

$$\frac{0.989mW}{5mm} * \sqrt{2.440} = 0.31 \leq 3$$

RESULT: This device has been excluded from SAR testing.

END OF TEST REPORT