

FCC Part 1.1310

FCC Part 2.1091

RF Exposure Evaluation REPORT

For

Oro Technology Co., Ltd.

3F., No. 29, Gongyequ 21st Rd., Nantun Dist., Taichung City 408 , Taiwan

FCC ID: W55W41011B2

Report Type:

Original Report

Product Type:

Tire Pressure Monitoring System

Report Producer : Jojo Lu

Report Number : RLK260601004RF03

Report Date : 2026/07/15

Reviewed By: Jack Hsu



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Revision History

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1. General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	Oro Technology Co., Ltd.
	3F., No. 29, Gongyequ 21st Rd., Nantun Dist., Taichung City 408 , Taiwan
Manufacturer	Oro Technology Co., Ltd.
	3F., No. 29, Gongyequ 21st Rd., Nantun Dist., Taichung City 408 , Taiwan
Brand(Trade) Name	ORO
Product (Equipment)	Tire Pressure Monitoring System
Main Model Name	W410-TX
Frequency Range	433.92 MHz
Modulation Type	FSK
Number of Channels	1 Channel
Power Operation (Voltage Range)	3Vdc from battery
Received Date	2026/06/22
Date of Test	2026/06/24~ 2026/07/06

**All measurement and test data in this report was gathered from production sample serial number: RLK260601004-01 (Assigned by BACL, Linkou Laboratory).*

1.2 Statement of Compliance

Decision Rule: No, (The test results do not include MU judgment)

1. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory).
2. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.
3. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
4. The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.
5. Bay Area Compliance Laboratories Corp. (Linkou Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

1.3 Measurement Uncertainty

Parameter	Uncertainty
RF output power	± 3.42 (dB)

2. FCC §1.1310 - RF Exposure

2.1 Applicable Standard

RF exposure evaluation of this device was performed in accordance with the requirements of 47 CFR §1.1310 and §2.1091 for mobile devices.

According to §2.1091, equipment intended to be used with a separation distance of 20 cm or more from the user may demonstrate compliance with Maximum Permissible Exposure (MPE) limits instead of SAR testing.

The applicable MPE limits for the general population/uncontrolled exposure are specified in 47 CFR §1.1310(e)(1). These limits are summarized in the table below:

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

Notes:

- f = frequency in MHz; * = Plane-wave equivalent power density;
- These values represent the power density (S) limits for general population/uncontrolled exposure.
- For frequencies below 30 MHz, power density is derived from electric field (E) and magnetic field (H) limits.
- All calculated power densities from the device are compared against these limits to determine compliance.

For far-field or free-space conditions, the power density of an RF radiator is conservatively estimated using the industry-standard free-space equation:

$$S = \frac{P \cdot G}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

This equation provides a conservative estimation of the maximum potential exposure in the far-field region. The calculated power density at the minimum separation distance is directly compared to the MPE limits in §1.1310(e)(1) to determine compliance.

2.2 RF Exposure Evaluation Result

Frequency Range (MHz)	Tune-up Power		Antenna Gain		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
	(dBm)	(mW)	(dBi)	(numeric)			
433.92	9.68	9.290	-20.87	0.008	20	0.00001513	0.28928

Note :

1. Please refer to RF Report No. RLK260601004RF01 for detailed tune-up power information.
2. The Tune-up output power was declared by the Applicant.
3. Tune-up Power = $84.01 \text{ dB}\mu\text{V/m} - 95.2 + 20.87 = 9.68 \text{ dBm}$
4. MPE Limit = $433.92/1500 = 0.28928 \text{ mW/cm}^2$

Result: The device compliant RF Exposure at 20cm distances.

******* END OF REPORT *******