

FCC Part 1.1310
FCC Part 2.1091
RF Exposure Evaluation REPORT

For

M2communication INC.

17F.-3, No. 32, Gaotie 2nd Rd., Zhubei City, Hsinchu County ,Taiwan (R.O.C.)

FCC ID: 2AFXU-EF27-S2

Report Type:
Original Report

Product Type:
Electronic Shelf Label

Report Producer : Jojo Lu

Report Number : RLK260421066RF02

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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	M2communication INC.
	17F.-3, No. 32, Gaotie 2nd Rd., Zhubei City, Hsinchu County ,Taiwan (R.O.C.)
Manufacturer	LuenHuei Electronics CO., LTD.
	No. 17, Guangfu Rd., Hukou Township, Hsinchu County 303036, Taiwan (R.O.C.)
	microview electronics
	Room 1005, Block B, Building 5, Huaqiang Creative Industry Park, Guanhua Road, Guangming District, Shenzhen, Guangdong, China
Brand(Trade) Name	M2COMM
Product (Equipment)	Electronic Shelf Label
Main Model Name	EF27-S2
Frequency Range	903 ~ 927 MHz
Output Power	12.26 dBm
Modulation Technique	GFSK
Power Operation (Voltage Range)	DC 3V from battery
Received Date	2026/4/30
Date of Test	2026/5/6~2026/5/14

*All measurement and test data in this report was gathered from production sample serial number:

RLK260421066-01(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

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(b). 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(b) to determine compliance.

3.1 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)			
903-927	12.50	17.78	-5.1	0.31	20	0.00109	0.602

Note :

1. Please refer to RF Report No. RLK260421066RF01 for detailed tune-up power information.
2. The Tune-up output power was declared by the Applicant.

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

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