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<http://www.ltalab.com>

Dates of Tests: Dec 05, 2025
Test Site : LTA CO., LTD.

CERTIFICATION OF COMPLIANCE

FCC ID.

VSODM-4400P

APPLICANT

Yeonhwa M Tech Co.,Ltd

Equipment Class	:	Private Land Mobile Radio Service
Manufacturing Description	:	UHF Transceiver
Manufacturer	:	Yeonhwa M Tech Co.,Ltd
Model name	:	DM-4400p
Test Device Serial No.:	:	Identical prototype
Rule Part(s)	:	§2, §90
Frequency Range	:	406.1 ~ 470 MHz
Data of issue	:	Dec 08, 2025

This test report is issued under the authority of:

Eun-Hwan Jung, Manager

The test was supervised by:

Jae-Humm Yeon, Test Engineer

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1. General information

1-1 Test Performed

Company name : LTA Co., Ltd.
Address : 243, Jubug-ri, Yangji-Myeon, Youngin-Si, Kyunggi-Do, Korea. 449-822
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Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the “General requirements for the competents of calibration and testing laboratory”.

1-2 Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
RRA	KOREA	KR0049	-	EMC accredited Lab.
FCC	U.S.A	649054	2027-03-29	FCC CAB
VCCI	JAPAN	C-4948,	2026-09-10	VCCI registration
VCCI	JAPAN	T-2416,	2026-09-10	VCCI registration
VCCI	JAPAN	R-4483(10 m),	2026-10-15	VCCI registration
VCCI	JAPAN	G-847	2027-12-13	VCCI registration
IC	CANADA	5799A-1	2026-08-05	IC filing

2. Information about test item

2-1 Client & Manufacturer

Client Company name : YEONHWA M TECH CO.,LTD
Address : 36, Jeonpa-ro 44beon-gil Manan-gu, Anyang-si, Gyeonggi-do, Korea
Tel / Fax : +82-31-444-7270 / +82-31-444-7271

2-2 Equipment Under Test (EUT)

Model name : DM-4400p
Serial number : Identical prototype
Date of receipt : Nov 13, 2025
EUT condition : Pre-production, not damaged
Antenna type : Whip Antenna
Frequency Range : 406.1 ~ 470 MHz
Channel Separation : 12.5 kHz
Emission Designators : 11K0F3E, 7K60FXD, 7K60FXE
Power Source : DC 13.8 V

2-3 Tested frequency

	LOW	MID	HIGH
Frequency (MHz)	406.1	438.05	470

2-4 Ancillary Equipment

Equipment	Model No.	Serial No.	Manufacturer
-	-	-	-

3. Test Report

3.1 Summary of tests

FCC Part Section(s)	Parameter	Limit	Test Condition	Status (note 1)
§1.1310 and §2.1091	RF EXPOSURE EVULATION	-	-	C

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

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3.2 RF EXPOSURE EVALUATION

1.1 Limit

According to §1.1310 and §2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	*(100)	<6
3.0 - 30	1824/f	4.89/f	*(900/f ²)	<6
30 - 300	61.4	0.163	1.0	<6
300 – 1,500			f/300	<6
1,500 – 100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3 – 3.0	614	1.63	*(100)	<30
3.0 - 30	824/f	2.19/f	*(180/f ²)	<30
30 - 300	27.5	0.073	0.20	<30
300 – 1,500			f/1500	<30
1,500 – 100,000			1.0	<30

F = frequency in MHz

* = Plane-wave equivalent power density

1.2 MAXIMUM PERMISSIBLE EXPOSURE Prediction

- Calculated under the worst-case conditions of each mode.

46 +/- 1 dBm for High Power Level

37 +/- 1 dBm for Low Power Level

(Output power including tune-up tolerance)

Modulation	Channel Freq. (MHz)	Power Level (dBm)		Rated Power	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
FM	406.1	Low	36.65	5 W(36.99 dBm)	0.02	1.35
FM	406.1	High	45.49	40 W(46.02 dBm)	0.15	1.35
4FSK	406.1	Low	36.55	5 W(36.99 dBm)	0.02	1.35
4FSK	406.1	High	45.35	40 W(46.02 dBm)	0.15	1.35

- The max antenna gain is 3 dBi provided by manufacture
- A 50% transmit duty cycle was applied to the MPE evaluation.
- MPE evaluate distance is at least 1.09 m from user manual provide by manufacturer
- This device is classified as a mobile transmitter under FCC §2.1091. It must be used with a minimum separation distance of 1.09 m from the radiator to comply with FCC RF exposure requirements. This radio is intended for occupational/controlled use only. Users must be trained in RF safety procedures before use.