

TEST REPORT

FCC MPE Test for MAR326

Certification

APPLICANT HYUNDAI MOBIS CO., LTD.

REPORT NO. HCT-RF-2402-FI006

DATE OF ISSUE February 28, 2024

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Applicant	HYUNDAI MOBIS CO., LTD. 203, Teheran-ro, Gangnam-gu, Seoul, South Korea (06141)
Eut Type Model Name	UNIT ASSY-FR RADAR MAR326
FCC ID	TQ8-MAR326
Frequency range	76 GHz ~ 77 GHz
Brand	HYUNDAI MOBIS
Location of Test	■ Permanent Testing Lab □ On Site Testing Lab (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggido, Republic of Korea)

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REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	February 28, 2024	Initial Release

Notice

Content

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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RF Exposure Statement

1. LIMITS

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)	Magneticfield Strength (A/m)	Powerdensity (mW/cm²)	Averagingtime (minutes)
0.3 - 1.34	614	1.63	(a)(100)	30
1.34 - 30	824/f	2.19/f	$^{(a)}(180/f^2)$	30
30 - 300	27.5	0.073	0.2	30
300 - 1500			f/1500	30
1500 - 100.000			1.0	30

F = frequency in MHz

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

 $S = PG/4\pi R^2$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

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⁽a) = Plane-wave equivalent power density



3. RESULTS

3-1. 77G Radar

EIRP[Radiated Power]	30.00	dBm
EIRP[Radiated Power]	1 000.00	mW
Prediction distance	20.00	cm
Prediction frequency	76.0 ~ 77.0	GHz
Power density at prediction frequency(S)	0.1989	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

3-2.1091

EIRP	30.00	(dBm)
ERP	27.85	(dBm)
ERP	0.610	(W)
ERP Limit	3.00	(W)
MARGIN	6.92	(dB)

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