







TEST REPORT

FCC MPE Test for DA351I6MG

Certification

APPLICANT Hyundai Mobis Co., Ltd

REPORT NO. HCT-RF-2503-FC053

DATE OF ISSUE March 13, 2025

Tested by Kyung Jun Woo

Technical ManagerJong Seok Lee



Accredited by KOLAS, Republic of KOREA

HCT CO., LTD. Brigini Huh BongJai Huh / CEO









HCT CO.,LTD.

2-6, 73, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea Tel. +82 31 645 6300 Fax. +82 31 645 6401

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Applicant	Hyundai Mobis Co., Ltd 203, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea
Product Name	DISPLAY CAR SYSTEM
Model Name	DA351I6MG
FCC ID	TQ8-DA351I6MG
Frequency range	2 402 MHz – 2 480 MHz (Bluetooth)
	2 412 MHz ~ 2 462 MHz (WLAN)
	5 180 MHz ~ 5 825 MHz (UNII)
Date of Test	February 14, 2025 ~ March 13, 2025
Test Standard Used	§ 1.1310, § 2.1091
Location of Test	■ Permanent Testing Lab □ On Site Testing Lab
	(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggido. Republic of Korea)
Test Results	PASS

F-TP22-03 (Rev. 06) Page 2 of 6



REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	March 13, 2025	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).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

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

This test report provides test result(s) under the scope accredited by the Korea Laboratory Accreditation Scheme (KOLAS), which signed the ILAC-MRA.

(KOLAS (KS Q ISO/IEC 17025) Accreditation No. KT197)

This test report provides test result(s) under the lab's valid Scope of Accreditation by A2LA (American Association for Laboratory Accreditation), signatory of the ILAC-MRA.

(A2LA (ISO/IEC 17025) Certificate No. 4114.01)

F-TP22-03 (Rev. 06) Page 3 of 6



RF Exposure Statement

1. Limit

According to § 1.1310, § 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 to the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

F-TP22-03 (Rev. 06) Page 4 of 6

⁽a) = Plane-wave equivalent power density



3. RESULTS

3-1. Bluetooth

Average output Power at antenna input terminal	4.00	dBm
Average output Power at antenna input terminal	2.512	mW
Prediction distance	20.00	cm
Prediction frequency	2402 – 2480	MHz
Antenna Gain(typical)	-0.18	dBi
Antenna Gain(numeric)	0.959	-
Power density at prediction frequency(S)	0.0005	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

3-2. DTS

Average output Power at antenna input terminal	6.00	dBm
Average output Power at antenna input terminal	3.981	mW
Prediction distance	20.00	cm
Prediction frequency	2412 – 2462	MHz
Antenna Gain(typical)	-0.01	dBi
Antenna Gain(numeric)	0.998	-
Power density at prediction frequency(S)	0.0008	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

3-3. UNII

Average output Power at antenna input terminal	10.00	dBm
Average output Power at antenna input terminal	10.000	mW
Prediction distance	20.00	cm
Prediction frequency	5180 - 5825	MHz
Antenna Gain(typical)	-0.18	dBi
Antenna Gain(numeric)	0.959	-
Power density at prediction frequency(S)	0.0019	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

F-TP22-03 (Rev. 06) Page 5 of 6



Simultaneous transmission operations

Worst Case: Simultaneous MPE 20cm is

$$\sum_{i=1}^{n} \frac{Power\ density\ i}{Limit\ i} < 1$$

Simultaneous MPE

- 5 GHz WLAN (0.0019) + BT (0.0005) = 0.0024 < 1
- 2.4G WLAN (0.0008) + BT (0.0005) = 0.0013 < 1

F-TP22-03 (Rev. 06) Page 6 of 6