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## **FCC MPE REPORT**

Certification

**Applicant Name:** 

HYUNDAI MOBIS CO., LTD.

Address:

203, Teheran-ro, Gangnam-gu, Seoul, 135-977, South Korea

Date of Issue:

March 13, 2018
Test Site/Location:

HCT CO., LTD., 74,Seoicheon-ro 578beon-gil,Majang-myeo,Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-RF-1803-FI003

FCC ID:

TQ8-ACB10F2AN

**APPLICANT:** 

HYUNDAI MOBIS CO., LTD.

FCC Model:

ACB10F2AN

Additional Model(s):

ACB10F2AU

**EUT Type:** 

Car Audio system

Frequency Range:

2402 MHz - 2480 MHz (Bluetooth)

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility

for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits

pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Report prepared by : Jung Ki Lim Engineer of Telecommunication testing center

Approved by : Jong Seok Lee
Manager of Telecommunication testing center

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Report No.: HCT-RF-1803-FI003 FCC ID : TQ8-ACB10F2AN

# **Version**

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-1803-FI003	March 13, 2018	- First Approval Report

F-TP22-03 (Rev.00) 2 / 4 **HCT CO.,LTD.** 



Report No.: HCT-RF-1803-FI003 FCC ID : TQ8-ACB10F2AN

# **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	Electric field	Magnetic field	Power density	Averaging time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/am²)	(minutes)
0.3 - 1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/ f²) 0.2 f/1500 1.0	30 30 30 30 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

<sup>\* =</sup> Plane-wave equivalent power density



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### 3. RESULTS

BT Only

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Max Peak output Power at antenna input terminal	3.275	(dBm)
Max Peak output Power at antenna input terminal	2.126	(mW)
Prediction distance	20.000	(cm)
Prediction frequency	2441.000	(MHz)
Antenna Gain(typical)	-0.180	(dBi)
Antenna Gain(numeric)	0.959	-
Power density at prediction frequency(S)	0.000406	(mW/cm <sup>2</sup> )
MPE limit for uncontrolled exposure at prediction frequency	1.000	(mW/cm <sup>2</sup> )

2.1091

EIRP	3.095	(dBm)
ERP	0.95	(dBm)
ERP	0.001	(W)
ERP Limit	3.00	(W)
MARGIN	33.83	(dB)