

# TEST REPORT

FCC MPE Test for Jaguar Dash Cam Front  
Certification

**APPLICANT**  
Mobile Appliance, Inc.

**REPORT NO.**  
HCT-RF-2008-FC036

**DATE OF ISSUE**  
14 August 2020

**Tested by**  
Sang Hoon Lee



**Technical Manager**  
Jong Seok Lee



**HCT CO., LTD.**

*Soo Chan Lee*  
SooChan Lee / CEO

**HCT CO., LTD.**

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA  
Tel. +82 31 634 6300 Fax. +82 31 645 6401



고객비밀  
CUSTOMER SECRET

**HCT Co., Ltd.**

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA  
Tel. +82 31 634 6300 Fax. +82 31 645 6401

# TEST REPORT

FCC MPE Test for  
Jaguar Dash Cam  
Front

**REPORT NO.**

HCT-RF-2008-FC036

**DATE OF ISSUE**

August 14, 2020

**Additional Model**

Land Rover Dash Cam Front

**Applicant**

**Mobile Appliance, Inc.**

Gwanyang-dong-1701~1706, Daerung Techno #15, 401, Simin-daero, Dongan-gu, Anyang-si, Gyeonggi-do, Korea

**Eut Type  
Model Name**

Jaguar Dash Cam Front  
Jaguar Dash Cam Front

**FCC ID**

WHBJLRDASHCAM

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test results were applied only to the test methods required by the standard.

## REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	August 14, 2020	Initial Release

### 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 report shall not be reproduced except in full(only partly) without approval of the laboratory.



**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)	Magnetic field Strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
0.3 -				
1.34.....	614	1.63	*(100)	30
1.34 - 30.....	824/f	2.19/f	*(180/ f <sup>2</sup> )	30
30 - 300.....	27.5	0.073	0.2	30
300 - 1500.....	.....	.....	f/1500	30
1500 -	.....	.....	1.0	30
100.000.....				

F = frequency in MHz  
\* = Plane-wave equivalent power density

**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

### 3. RESULTS

#### 3-1. DTS

Max Average EIRP output Power	17.00	dBm
Max Average EIRP output Power	50.12	mW
Prediction distance	20.00	cm
Prediction frequency	2412 – 2462	MHz
Power density at prediction frequency( S)	0.0100	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm <sup>2</sup>

#### 2.1091

EIRP	17.00 (dBm)
ERP	14.85 (dBm)
ERP	0.031 (W)
ERP Limit	3.00 (W)
MARGIN	19.92 (dB)

3-2. UNII

Max Average EIRP output Power	14.00	dBm
Max Average EIRP output Power	25.12	mW
Prediction distance	20.00	cm
Prediction frequency	5775	MHz
Power density at prediction frequency( S)	0.0050	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm <sup>2</sup>

2.1091

EIRP	14.00 (dBm)
ERP	11.85 (dBm)
ERP	0.015 (W)
ERP Limit	3.00 (W)
MARGIN	22.92 (dB)

### 3-3. 24 GHz Radar

Max Average EIRP output Power	0.01	dBm
Max Average EIRP output Power	1.00	mW
Prediction distance	20.00	cm
Prediction frequency	24050 ~ 24250	MHz
Power density at prediction frequency( S)	0.0002	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm <sup>2</sup>

### 2.1091

EIRP	0.01 (dBm)
ERP	-2.14 (dBm)
ERP	0.001 (W)
ERP Limit	3.00 (W)
MARGIN	36.91 (dB)