

TEST REPORT

FCC MPE Test for ADXV-HPR-437FN

APPLICANT
ADRF KOREA, Inc.

REPORT NO.
HCT-RF-2005-FC019-R1

DATE OF ISSUE
11 June 2020

Tested by
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Additional Model

-

Applicant

ADRF KOREA, Inc.

5-5, Mojeon-Ri, Backsa-Myun, Icheon-City, Kyunggi-Do, Korea

**Eut Type
Model Name**

DAS
ADXV-HPR-437FN

FCC ID

N52-ADXV-HPR-7FN

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	May 27, 2020	Initial Release
1	June 11, 2020	Revised the FirstNet band data.

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.

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)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3 - 1.34.....	614	1.63	*(100)	30
1.34 - 30.....	824/f	2.19/f	*(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

* = 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 of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

- Lower 700 MHz – LTE 10 MHz (Downlink)

Max Peak output Power at antenna input terminal	43.50	dBm
Max Peak output Power at antenna input terminal	22387.21	mW
Prediction distance	250.00	cm
Prediction frequency	733.00	MHz
Antenna Gain(typical)	7.40	dBi
Antenna Gain(numeric)	5.50	-
Power density at prediction frequency(S)	0.1566	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.4887	mW/cm ²

- Upper 700 MHz – LTE 10 MHz (Downlink)

Max Peak output Power at antenna input terminal	43.50	dBm
Max Peak output Power at antenna input terminal	22387.21	mW
Prediction distance	250.00	cm
Prediction frequency	751.00	MHz
Antenna Gain(typical)	7.40	dBi
Antenna Gain(numeric)	5.50	-
Power density at prediction frequency(S)	0.1566	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.5007	mW/cm ²

- FirstNet – LTE 10 MHz (Downlink)

Max Peak output Power at antenna input terminal	31.50	dBm
Max Peak output Power at antenna input terminal	1412.54	mW
Prediction distance	250.00	cm
Prediction frequency	763.00	MHz
Antenna Gain(typical)	7.40	dBi
Antenna Gain(numeric)	5.50	-
Power density at prediction frequency(S)	0.0099	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.5087	mW/cm ²