TEST REPORT

FCC MPE Test for ADXV-R-3378P-UA
Certification

APPLICANT
ADRF KOREA, Inc.

REPORT NO.
HCT-RF-2204-FC006

DATE OF ISSUE
April 19, 2022

Tested by Sang Su Lee	
Technical Manager Jong Seok Lee	

HCT CO., LTD.

BongJai Huh / 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

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HCT

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74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA

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Additional Model
-

Applicant	**ADRF KOREA, Inc.** 5-5, Mojeon-Ri, Backsa-Myun, Icheon-Citi, Kyunggi-Do, Korea
Eut Type **Model Name**	DAS ADXV-R-3378P-UA
FCC ID	N52-ADXVR3378PUA

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	April 19, 2022	Initial Release

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.

If this report is required to confirmation of authenticity, please contact to www.hct.co.kr

고 객 비 밀
CUSTOMER SECRET

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/cm²)	Averaging time (minutes)
0.3 - 1.34………………………	614	1.63	*(100)	30
1.34 - 30………………………	824/f	2.19/f	*(180/ f²)	30
30 - 300………………………	27.5	0.073		30
300 - 1500……………………	…………	…………	0.2	30
1500 - 100.000………………	…………	…………	f/1500	30
			1.0	

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

3. RESULTS

- PS Narrowband – Downlink

Max Peak output Power at antenna input terminal	34.00	dBm
Max Peak output Power at antenna input terminal	2511.89	mW
Prediction distance	60.00	cm
Prediction frequency	769.00	MHz
Antenna Gain(typical)	2.60	dBi
Antenna Gain(numeric)	1.82	-
Power density at prediction frequency(S)	0.1010	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5127	mW/cm^2

- NPSPAC+SMR – Downlink

Max Peak output Power at antenna input terminal	34.00	dBm
Max Peak output Power at antenna input terminal	2511.89	mW
Prediction distance	60.00	cm
Prediction frequency	851.00	MHz
Antenna Gain(typical)	3.90	dBi
Antenna Gain(numeric)	2.45	-
Power density at prediction frequency(S)	0.1363	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5673	mW/cm^2

Simultaneous band emission conditions

[Downlink]

Band	MPE Ratio (Power density / Limit)	Sum of MPE Ratio	
PS Narrowband	0.1971	0.4373	≤ 1
NPSPAC+SMR	0.2402		

*Note
1. The result of each band was applied to the worst value.
2. MPE ratios are calculated as
    [(Power density1 / MPE Limit) + [(Power density2 / MPE Limit) + …] ≤ 1