Testing and Certification

TEST REPORT

FCC MPE Test for HRDU_Cband_M_40W
Certification

APPLICANT
SOLiD, Inc.

REPORT NO.
HCT-RF-2509-FC013

DATE OF ISSUE
November 5, 2025

Tested by Jae hyeon Chu	
Technical Manager Jong Seok Lee	

HCT CO., LTD.
BongJai Huh / CEO

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Applicant	**SOLiD, Inc.** 10, 9th Floor, SOLiD Space, 220, Pangyoyeok-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, 463-400
Product Name	HROU_4000_CA
Model Name	HRDU_Cband_M_40W
FCC ID	W6UNHCBANDM-40W
Date of Test	August 11, 2025 ~ November 04, 2025
Location of Test	■ Permanent Testing Lab ☐ On Site Testing (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)
Test Standard Used	CFR 47 Part 2.1091
Test Results	PASS

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REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	November 05, 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 The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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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

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3. RESULTS

3.7 GHz Service (ANT 2 only)

Max output Power at antenna input terminal	47.00	dBm
Max output Power at antenna input terminal	50 118.72	mW
Prediction distance	900.00	cm
Prediction frequency	3700.00	MHz
Antenna Gain(typical)	17	dBi
Antenna Gain(numeric)	50	-
Power density at prediction frequency (S)	0.2468	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm^2

3.7 GHz Service (2Tx MIMO)

Max output Power at antenna input terminal	50.01	dBm
Max output Power at antenna input terminal	100 230.52	mW
Prediction distance	900.00	cm
Prediction frequency	3 700.00	MHz
Directional Gain (typical)	20	dBi
Directional Gain (numeric)	100	-
Power density at prediction frequency (S)	0.9847	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm^2

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