

## **TEST REPORT**

FCC MPE Test for TR\_HRDU\_A\_850C

Certification

**APPLICANT** SOLiD, Inc.

REPORT NO. HCT-RF-2101-FC046

**DATE OF ISSUE**January 11, 2021

**Tested by**Kyung Soo Kang

**Technical Manager** Jong Seok Lee

HCT CO., LTD. Soo Chan Lee



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# TEST REPORT FCC MPE Test for

TR\_HRDU\_A\_850C

REPORT NO. HCT-RF-2101-FC046

DATE OF ISSUE January 11, 2020

**Additional Model** 

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Applicant SOLiD, Inc.

10, 9th Floor, SOLiD Space, Pangyoyeok-ro 220, Bundang-gu, Seongnam-si,

Gyeonggi-do, 463-400, South Korea

Eut Type TR\_HRDU\_A\_850C
Model Name TR\_HRDU\_A\_850C

FCC ID W6UNHA850C

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.

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#### **REVISION HISTORY**

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

Revision No.	Date of Issue	Description
0	January 11, 2020	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.

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<sup>\*</sup> The report shall not be reproduced except in full(only partly) without approval of the laboratory.





#### **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 Strength (V/m)	Magneticfield	Powerdensity	Averagingtime
(MHz)		Strength (A/m)	(mW/cm²)	(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

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

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#### - Cellular – LTE 5 MHz (Downlink)

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Max Peak output Power at antenna input terminal	44.50	dBm
Max Peak output Power at antenna input terminal	28183.83	mW
Prediction distance	550.00	cm
Prediction frequency	871.50	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency( S)	0.3716	mW/cm²
MPE limit for uncontrolled exposure at prediction frequency	0.5810	mW/cm²

#### - Cellular – LTE 10 MHz (Downlink)

Max Peak output Power at antenna input terminal	44.50	dBm
Max Peak output Power at antenna input terminal	28183.83	mW
Prediction distance	550.00	cm
Prediction frequency	874.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.3716	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	0.5827	mW/cm²

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### - Cellular – LTE 20 MHz (Downlink)

Max Peak output Power at antenna input terminal	44.50	dBm
Max Peak output Power at antenna input terminal	28183.83	mW
Prediction distance	550.00	cm
Prediction frequency	879.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.3716	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	0.5860	mW/cm²

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