

# TEST REPORT

FCC MPE Test for eROU\_40403434L2\_X  
Certification

**APPLICANT**  
SOLiD, Inc.

**REPORT NO.**  
HCT-RF-2310-FC082

**DATE OF ISSUE**  
October 20, 2023

**Tested by**  
Sang Su Lee

**Technical Manager**  
Jong Seok Lee

**HCT CO., LTD.**  
*Bongjai Huh*  
BongJai Huh / CEO



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**TEST  
REPORT**

FCC MPE Test for  
eROU\_40403434L2\_X

**REPORT NO.**

HCT-RF-2310-FC082

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October 20, 2023

**Additional Model**

eROU\_40403434L1\_N, eROU\_40403434L1\_X, eROU\_40403434L2\_N

**Applicant**

**SOLiD, Inc.**

10, 9th Floor, SOLiD Space, Pangyoyeok-ro 220, Bundang-gu, Seongnam-si,  
Gyeonggi-do, 463-400, South Korea

**Eut Type  
Model Name**

DAS System  
eROU\_40403434L2\_X

**FCC ID**

W6UER40403434

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	October 20, 2023	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.

Test Report Statement:

The above Test Report is not related to the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme) / A2LA(American Association for Laboratory Accreditation)(4114.01), which signed the ILAC-MRA.

If this report is required to confirmation of authenticity, please contact to [www.hct.co.kr](http://www.hct.co.kr)



## 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 <sup>2</sup> )	Averaging time (minutes)
0.3 - 1.34.....	614	1.63	<sup>(a)</sup> (100)	30
1.34 - 30.....	824/f	2.19/f	<sup>(a)</sup> (180/f <sup>2</sup> )	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

<sup>(a)</sup> = 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. Result(3.45 GHz Service)

[External, SISO]

- C-Band 5G NR 20 MHz (Downlink)

Max Peak output Power at antenna input terminal	23.00	dBm
Max Peak output Power at antenna input terminal	199.53	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.0882	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 40 MHz (Downlink)

Max Peak output Power at antenna input terminal	23.00	dBm
Max Peak output Power at antenna input terminal	199.53	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.0882	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 60 MHz (Downlink)

Max Peak output Power at antenna input terminal	23.00	dBm
Max Peak output Power at antenna input terminal	199.53	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.0882	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 80 MHz (Downlink)

Max Peak output Power at antenna input terminal	23.00	dBm
Max Peak output Power at antenna input terminal	199.53	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.0882	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>



- C-Band 5G NR 100 MHz (Downlink)

Max Peak output Power at antenna input terminal	23.00	dBm
Max Peak output Power at antenna input terminal	199.53	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.0882	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>



**[External, MIMO]**

- C-Band 5G NR 20 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	26.00	dBm
MIMO Max Peak output Power at antenna input terminal	398.11	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	20.00	dBi
Antenna Gain(numeric)	100.00	-
Power density at prediction frequency(S)	0.3510	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 40 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	26.00	dBm
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Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	20.00	dBi
Antenna Gain(numeric)	100.00	-
Power density at prediction frequency(S)	0.3510	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>





- C-Band 5G NR 60 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	26.00	dBm
MIMO Max Peak output Power at antenna input terminal	398.11	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	20.00	dBi
Antenna Gain(numeric)	100.00	-
Power density at prediction frequency(S)	0.3510	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

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Prediction frequency	3 450.00	MHz
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Antenna Gain(numeric)	100.00	-
Power density at prediction frequency(S)	0.3510	mW/cm <sup>2</sup>
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Antenna Gain(typical)	20.00	dBi
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Power density at prediction frequency(S)	0.3510	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>



**[Internal, SISO]**

- C-Band 5G NR 20 MHz (Downlink)

Max Peak output Power at antenna input terminal	23.00	dBm
Max Peak output Power at antenna input terminal	199.53	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	5.50	dBi
Antenna Gain(numeric)	3.55	-
Power density at prediction frequency(S)	0.0062	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 40 MHz (Downlink)

Max Peak output Power at antenna input terminal	23.00	dBm
Max Peak output Power at antenna input terminal	199.53	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	5.50	dBi
Antenna Gain(numeric)	3.55	-
Power density at prediction frequency(S)	0.0062	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

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Max Peak output Power at antenna input terminal	23.00	dBm
Max Peak output Power at antenna input terminal	199.53	mW
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Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	5.50	dBi
Antenna Gain(numeric)	3.55	-
Power density at prediction frequency(S)	0.0062	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 80 MHz (Downlink)

Max Peak output Power at antenna input terminal	23.00	dBm
Max Peak output Power at antenna input terminal	199.53	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	5.50	dBi
Antenna Gain(numeric)	3.55	-
Power density at prediction frequency(S)	0.0062	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 100 MHz (Downlink)

Max Peak output Power at antenna input terminal	23.00	dBm
Max Peak output Power at antenna input terminal	199.53	mW
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Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	5.50	dBi
Antenna Gain(numeric)	3.55	-
Power density at prediction frequency(S)	0.0062	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

**[Internal, MIMO]**

- C-Band 5G NR 20 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	26.00	dBm
MIMO Max Peak output Power at antenna input terminal	398.11	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	8.50	dBi
Antenna Gain(numeric)	7.08	-
Power density at prediction frequency(S)	0.0249	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 40 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	26.00	dBm
MIMO Max Peak output Power at antenna input terminal	398.11	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	8.50	dBi
Antenna Gain(numeric)	7.08	-
Power density at prediction frequency(S)	0.0249	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 60 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	26.00	dBm
MIMO Max Peak output Power at antenna input terminal	398.11	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	8.50	dBi
Antenna Gain(numeric)	7.08	-
Power density at prediction frequency(S)	0.0249	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 80 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	26.00	dBm
MIMO Max Peak output Power at antenna input terminal	398.11	mW
Prediction distance	95.00	cm
Prediction frequency	3 450.00	MHz
Antenna Gain(typical)	8.50	dBi
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Antenna Gain(typical)	8.50	dBi
Antenna Gain(numeric)	7.08	-
Power density at prediction frequency(S)	0.0249	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>



#### 4. Result(3.7 GHz Service)

[External, SISO]

- C-Band 5G NR 20 MHz (Downlink)

Max Peak output Power at antenna input terminal	25.00	dBm
Max Peak output Power at antenna input terminal	316.23	mW
Prediction distance	95.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.1397	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 40 MHz (Downlink)

Max Peak output Power at antenna input terminal	25.00	dBm
Max Peak output Power at antenna input terminal	316.23	mW
Prediction distance	95.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	17.00	dBi
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MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

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Power density at prediction frequency(S)	0.1397	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

**[External, MIMO]**

- C-Band 5G NR 20 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	28.00	dBm
MIMO Max Peak output Power at antenna input terminal	630.96	mW
Prediction distance	95.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	20.00	dBi
Antenna Gain(numeric)	100.00	-
Power density at prediction frequency(S)	0.5563	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 40 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	28.00	dBm
MIMO Max Peak output Power at antenna input terminal	630.96	mW
Prediction distance	95.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	20.00	dBi
Antenna Gain(numeric)	100.00	-
Power density at prediction frequency(S)	0.5563	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

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Antenna Gain(typical)	20.00	dBi
Antenna Gain(numeric)	100.00	-
Power density at prediction frequency(S)	0.5563	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

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**[Internal, SISO]**

- C-Band 5G NR 20 MHz (Downlink)

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Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	5.50	dBi
Antenna Gain(numeric)	3.55	-
Power density at prediction frequency(S)	0.0099	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 40 MHz (Downlink)

Max Peak output Power at antenna input terminal	25.00	dBm
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MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>



- C-Band 5G NR 100 MHz (Downlink)

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Prediction distance	95.00	cm
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**[Internal, MIMO]**

- C-Band 5G NR 20 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	28.00	dBm
MIMO Max Peak output Power at antenna input terminal	630.96	mW
Prediction distance	95.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	8.50	dBi
Antenna Gain(numeric)	7.08	-
Power density at prediction frequency(S)	0.0394	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 40 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	28.00	dBm
MIMO Max Peak output Power at antenna input terminal	630.96	mW
Prediction distance	95.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	8.50	dBi
Antenna Gain(numeric)	7.08	-
Power density at prediction frequency(S)	0.0394	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 60 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	28.00	dBm
MIMO Max Peak output Power at antenna input terminal	630.96	mW
Prediction distance	95.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	8.50	dBi
Antenna Gain(numeric)	7.08	-
Power density at prediction frequency(S)	0.0394	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

- C-Band 5G NR 80 MHz (Downlink)

MIMO Max Peak output Power at antenna input terminal	28.00	dBm
MIMO Max Peak output Power at antenna input terminal	630.96	mW
Prediction distance	95.00	cm
Prediction frequency	3 700.00	MHz
Antenna Gain(typical)	8.50	dBi
Antenna Gain(numeric)	7.08	-
Power density at prediction frequency(S)	0.0394	mW/cm <sup>2</sup>
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MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>



**Simultaneous band emission conditions**

**[Downlink\_External]**

Band	MPE Ratio (Power density / Limit)	Sum of MPE Ratio	
3.45 GHz Service	0.3510	0.9073	≤ 1
3.7 GHz Service	0.5563		

**[Downlink\_Internal]**

Band	MPE Ratio (Power density / Limit)	Sum of MPE Ratio	
3.45 GHz Service	0.0249	0.0643	≤ 1
3.7 GHz Service	0.0394		

**\*Note**

1. The result of each band was applied to the worst value.
2. MPE ratios are calculated as  

$$[(\text{Power density}_1 / \text{MPE Limit}) + [(\text{Power density}_2 / \text{MPE Limit}) + \dots] \leq 1$$