

TEST REPORT

FCC MPE Test for eROUa_682335_X_R

Certification

APPLICANT SOLiD, Inc.

REPORT NO. HCT-RF-2201-FC116

DATE OF ISSUEJanuary 28, 2022

Tested byKyung Soo Kang

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TEST REPORT

FCC MPE Test for eROUa_682335_X_R

REPORT NO. HCT-RF-2201-FC116

DATE OF ISSUE January 28, 2022

Additional Model eROUa_682335_N_R

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 eROUa_682335_X_R
FCC ID	W6UERA682335R
	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 28, 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

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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	Electric field Strength (V/m)	Magneticfield	Powerdensity	Averagingtime
(MHz)		Strength (A/m)	(mW/cm²)	(minutes)
0.3 - 1.34 1.34 - 30 30 - 300 300 - 1500 1500 - 100.000	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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^{* =} Plane-wave equivalent power density





3. RESULTS

3.1 MPE calculation for standalone operations

- 600 MHz – LTE 5 MHz (Downlink)		
Max Peak output Power at antenna input terminal	20.00	dBm
Max Peak output Power at antenna input terminal	100.00	mW
Prediction distance	60.00	cm
Prediction frequency	617.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.1108	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.4113	mW/cm ²
- 600 MHz – LTE 10 MHz (Downlink)		
Max Peak output Power at antenna input terminal	20.00	dBm
Max Peak output Power at antenna input terminal	100.00	mW
Prediction distance	60.00	cm
Prediction frequency	617.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.1108	mW/cm²
MPE limit for uncontrolled exposure at prediction frequency	0.4113	mW/cm ²
- 600 MHz – LTE 20 MHz (Downlink)		
Max Peak output Power at antenna input terminal	20.00	dBm
Max Peak output Power at antenna input terminal	100.00	mW
Prediction distance	60.00	cm
Prediction frequency	617.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.1108	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.4113	mW/cm²

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- ESMR - CDMA (Downlink)

Max Peak output Power at antenna input terminal	20.00	dBm
Max Peak output Power at antenna input terminal	100.00	mW
Prediction distance	60.00	cm
Prediction frequency	862.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.1108	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.5747	mW/cm²

- ESMR - WCDMA (Downlink)

Max Peak output Power at antenna input terminal	20.00	dBm
Max Peak output Power at antenna input terminal	100.00	mW
Prediction distance	60.00	cm
Prediction frequency	862.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.1108	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.5747	mW/cm ²

- ESMR - LTE 5 MHz (Downlink)

Max Peak output Power at antenna input terminal	20.00	dBm
Max Peak output Power at antenna input terminal	100.00	mW
Prediction distance	60.00	cm
Prediction frequency	862.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	
Power density at prediction frequency(S)	0.1108	mW/cm²
MPE limit for uncontrolled exposure at prediction frequency	0.5747	mW/cm²

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- Cellular – CDMA (Downlink)

Max Peak output Power at antenna input terminal	20.00	dBm
Max Peak output Power at antenna input terminal	100.00	mW
Prediction distance	60.00	cm
Prediction frequency	869.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.1108	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm ²

- Cellular - WCDMA (Downlink)

Max Peak output Power at antenna input terminal	20.00	dBm
Max Peak output Power at antenna input terminal	100.00	mW
Prediction distance	60.00	cm
Prediction frequency	869.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.1108	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm ²

- Cellular - LTE 5 MHz (Downlink)

Max Peak output Power at antenna input terminal	20.00	dBm
Max Peak output Power at antenna input terminal	100.00	mW
Prediction distance	60.00	cm
Prediction frequency	869.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.1108	mW/cm²
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm²

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- Cellular - LTE 10 MHz (Downlink)

Max Peak output Power at antenna input terminal	20.00	dBm
Max Peak output Power at antenna input terminal	100.00	mW
Prediction distance	60.00	cm
Prediction frequency	869.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.1108	mW/cm²
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm²

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- WCS – LTE 5 MHz (Downlink)

Max Peak output Power at antenna input terminal	24.00	dBm
Max Peak output Power at antenna input terminal	251.19	mW
Prediction distance	60.00	cm
Prediction frequency	2350.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.2783	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

- WCS - LTE 10 MHz (Downlink)

Max Peak output Power at antenna input terminal	24.00	dBm
Max Peak output Power at antenna input terminal	251.19	mW
Prediction distance	60.00	cm
Prediction frequency	2350.00	MHz
Antenna Gain(typical)	17.00	dBi
Antenna Gain(numeric)	50.12	-
Power density at prediction frequency(S)	0.2783	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

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3.2 Simultaneous band emission conditions

[Downlink]

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Band	MPE Ratio (Power density / Limit)	Sum of MPE Ratio	
ESMR	0.1928		
Cellular	0.1912	0.6623	≤ 1
WCS	0.2783		

- *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) + ...] \leq 1

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