TEST REPORT

FCC MPE Test for RFV01U-D2A
Class II Permissive Change

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2206-FC042

DATE OF ISSUE
July 27, 2022

Tested by Kyung Soo Kang		
Technical Manager Kwon Jeong		

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F-TP22-03(Rev.04)

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TEST REPORT

FCC MPE Test for
RFV01U-D2A

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Additional Model
-

Applicant	**SAMSUNG Electronics Co., Ltd.** 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Eut Type **Model Name**	RRU (RFV01U) RFV01U-D2A
FCC ID	A3LRFV01U-D2A

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	July 27, 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

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	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

3. RESULTS

3.1 MPE calculation for standalone operations

(2 Port)B5 DSS 10 MHz 2to8 1 Carrier

Max Average output Power at antenna input terminal	51.79	dBm
Max Average output Power at antenna input terminal	151008.02	mW
Prediction distance	1000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1467	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(2 Port)B5 DSS 10 MHz 5to5 1 Carrier

Max Average output Power at antenna input terminal	51.79	dBm
Max Average output Power at antenna input terminal	151 008.02	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1467	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(2 Port)B5 DSS 10 MHz 9to1 1 Carrier

Max Average output Power at antenna input terminal	51.79	dBm
Max Average output Power at antenna input terminal	151 008.02	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1467	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(2 Port)5G NR n5 5 MHz 1 Carrier

Max Average output Power at antenna input terminal	50.03	dBm
Max Average output Power at antenna input terminal	100 693.17	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.0978	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(2 Port)5G NR n5 10 MHz 1 Carrier

Max Average output Power at antenna input terminal	51.79	dBm
Max Average output Power at antenna input terminal	151 008.02	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1467	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(4 Port)5G NR n5 5 MHz 1 Carrier

Max Average output Power at antenna input terminal	50.03	dBm
Max Average output Power at antenna input terminal	100 693.17	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.0978	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(2 Port)LTE B13 5 MHz 1 Carrier

Max Average output Power at antenna input terminal	48.78	dBm
Max Average output Power at antenna input terminal	75 509.22	mW
Prediction distance	1 000.00	cm
Prediction frequency	746.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.0733	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.4973	mW/cm^2

(4 Port)LTE B13 5 MHz 1 Carrier

Max Average output Power at antenna input terminal	50.03	dBm
Max Average output Power at antenna input terminal	100 693.17	mW
Prediction distance	1 000.00	cm
Prediction frequency	746.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.0978	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.4973	mW/cm^2

(2 Port)B5 DSS 10 MHz 1 Carrier + B5 DSS 10 MHz 1 Carrier [2 Carrier] (Contiguous)

Max Average output Power at antenna input terminal	51.79	dBm
Max Average output Power at antenna input terminal	151 008.02	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1467	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(2 Port)5G NR n5 5 MHz 1 Carrier + 5G NR n5 5 MHz 1 Carrier [2 Carrier] (Contiguous)

Max Average output Power at antenna input terminal	51.79	dBm
Max Average output Power at antenna input terminal	151 008.02	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1467	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(2 Port)5G NR n5 10 MHz 1 Carrier + 5G NR n5 10 MHz 1 Carrier [2 Carrier] (Contiguous)

Max Average output Power at antenna input terminal	51.79	dBm
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Prediction distance	1 000.00	cm
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Antenna gain (typical)	10.865	dBi
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Power density at prediction frequency(S)	0.1467	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(2 Port)B5 DSS 10 MHz 1 Carrier + LTE B5 5 MHz 1 Carrier [2 Carrier] (Contiguous)

Max Average output Power at antenna input terminal	51.79	dBm
Max Average output Power at antenna input terminal	151 008.02	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1467	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(2 Port)5G NR n5 5 MHz 1 Carrier + LTE B5 5 MHz 1 Carrier [2 Carrier] (Contiguous)

Max Average output Power at antenna input terminal	51.79	dBm
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(2 Port)B5 DSS 10 MHz 1 Carrier + 5G NR n5 10 MHz 1 Carrier [2 Carrier] (Contiguous)

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Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1467	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(4 Port)B5 DSS 10 MHz 1 Carrier + B5 DSS 10 MHz 1 Carrier [2 Carrier] (Contiguous)

Max Average output Power at antenna input terminal	53.04	dBm
Max Average output Power at antenna input terminal	201 372.42	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1956	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(4 Port)5G NR n5 5 MHz 1 Carrier + 5G NR n5 5 MHz 1 Carrier [2 Carrier] (Contiguous)

Max Average output Power at antenna input terminal	53.04	dBm
Max Average output Power at antenna input terminal	201 372.42	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1956	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(4 Port)5G NR n5 10 MHz 1 Carrier + 5G NR n5 10 MHz 1 Carrier [2 Carrier] (Contiguous)

Max Average output Power at antenna input terminal	53.04	dBm
Max Average output Power at antenna input terminal	201 372.42	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1956	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(4 Port)B5 DSS 10 MHz 1 Carrier + LTE B5 5 MHz 1 Carrier [2 Carrier] (Contiguous)

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Prediction distance	1 000.00	cm
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Power density at prediction frequency(S)	0.1956	mW/cm^2
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(2 Port)B5 DSS 10 MHz 1 Carrier + LTE B5 5 MHz 1 Carrier + LTE B5 10 MHz 1 Carrier [3 Carrier] (Contiguous)

Max Average output Power at antenna input terminal	51.79	dBm
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Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
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Prediction distance	1 000.00	cm
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Antenna gain (typical)	10.865	dBi
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(2 Port)5G NR n5 5 MHz 1 Carrier + 5G NR n5 5 MHz 1 Carrier [2 Carrier] (Non-Contiguous)

Max Average output Power at antenna input terminal	51.79	dBm
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Antenna gain (typical)	10.865	dBi
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(4 Port)B5 DSS 10 MHz 1 Carrier + LTE B5 5 MHz 1 Carrier [2 Carrier] (Non-Contiguous)

Max Average output Power at antenna input terminal	53.04	dBm
Max Average output Power at antenna input terminal	201 372.42	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1956	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(4 Port)5G NR n5 5 MHz 1 Carrier + LTE B5 5 MHz 1 Carrier [2 Carrier] (Non-Contiguous)

Max Average output Power at antenna input terminal	53.04	dBm
Max Average output Power at antenna input terminal	201 372.42	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1956	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(4 Port)B5 DSS 10 MHz 1 Carrier + 5G NR n5 5 MHz 1 Carrier [2 Carrier] (Non-Contiguous)

Max Average output Power at antenna input terminal	53.04	dBm
Max Average output Power at antenna input terminal	201 372.42	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1956	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(4 Port)B5 DSS 10 MHz 1 Carrier + 5G NR n5 10 MHz 1 Carrier [2 Carrier] (Non-Contiguous)

Max Average output Power at antenna input terminal	53.04	dBm
Max Average output Power at antenna input terminal	201 372.42	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1956	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(2 Port)B5 DSS 10 MHz 1 Carrier + (5G NR n5 5 MHz 1 Carrier + LTE B5 5 MHz 1 Carrier)
[3 Carrier](1C+2C) (Non-Contiguous)

Max Average output Power at antenna input terminal	51.79	dBm
Max Average output Power at antenna input terminal	151 008.02	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1467	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(2 Port)(B5 DSS 10 MHz 1 Carrier + 5G NR n5 5 MHz 1 Carrier) + LTE B5 5 MHz 1 Carrier
[3 Carrier](2C+1C) (Non-Contiguous)

Max Average output Power at antenna input terminal	51.79	dBm
Max Average output Power at antenna input terminal	151 008.02	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1467	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(4 Port)B5 DSS 10 MHz 1 Carrier + (5G NR n5 5 MHz 1 Carrier + LTE B5 5 MHz 1 Carrier) [3 Carrier](1C+2C) (Non-Contiguous)

Max Average output Power at antenna input terminal	53.04	dBm
Max Average output Power at antenna input terminal	201 372.42	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1956	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

(4 Port)(B5 DSS 10 MHz 1 Carrier + 5G NR n5 5 MHz 1 Carrier) + LTE B5 5 MHz 1 Carrier [3 Carrier](2C+1C) (Non-Contiguous)

Max Average output Power at antenna input terminal	53.04	dBm
Max Average output Power at antenna input terminal	201 372.42	mW
Prediction distance	1 000.00	cm
Prediction frequency	869.00	MHz
Antenna gain (typical)	10.865	dBi
Antenna gain (numeric)	12.204	-
Power density at prediction frequency(S)	0.1956	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	0.5793	mW/cm^2

3.2 Simultaneous band emission conditions

Band	MPE Ratio (Power density / Limit)	Sum of MPE Ratio	
B5	0.3376	0.7310	≤ 1
B13	0.3933		

*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