



Test Report No: 2470877R-RFUSV17S-B

RF EXPOSURE EVALUATION DECLARATION

Product Name	Vehicle Mount Computer			
Brand Name	RuggON			
Main Model No.	VX-311			
Series Model No.	VX-311YYZZZZ (X, Y, Z for marketing purpose X,Y,Z=10 characters Z can be 0 to 9, A to Z, a to z, "/", "\", "-", "_" or blank for different marketing purpose)			
FCC ID	2ABTU-VX311			
Applicant's Name / Address	RuggON Corporation 4F, No.298, Yang Guang St., NeiHu dDist., Taipei City, Taiwan, 11491			
Manufacturer's Name	RuggON Corporation			
Test Method Requested, Standard	FCC CFR Title 47 Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices.			
Verdict Summary	IN COMPLIANCE			
Documented By April Chen	April Chen			
Tested by Alan Chen	April Chen Man Chen Tim Sung			
Approved by Tim Sung	Tim Sing			
Date of Receipt	2024/07/29			
Date of Issue	2024/11/11			
Report Version	V1.0			

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

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The results presented in this Test Report apply only to the particular item under test established in this document.

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General Conditions

- 1. The test results relate only to the samples tested.
- 2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
- 3. This report must not be used to claim product endorsement by TAF or any agency of the government.
- 4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
- 5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.



Revision History

Version	Description	Issued Date	
V1.0	Initial issue of report	2024/11/11	



1. General Information

1.1. EUT Description

Product Name	Vehicle Mount Computer		
Brand Name	RuggON		
Model No.	VX-311		

Note: For more detailed information please refer to report No.: 230526-08.TR14, 230526-08.TR81, 230526-08.TR16, 230526-08.TR10, 230526-08.TR17, 230526-08.TR18, 230526-08.TR11 and 230526-08.TR87.

1.2. Testing Location Information

USA	FCC Designation Number: TW0033
Canada	CAB Identifier Number: TW3023 / Company Number: 26930

Site Description	Accredited by TAF
	Accredited Number: 3023

Test Laboratory	DEKRA Testing and Certification Co., Ltd.	
	Linkou Laboratory	
Address	No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan, R.O.C.	
Performed Location	No. 26, Huaya 1st Rd., Guishan Dist.,Taoyuan City 333411, Taiwan, R.O.C.	
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2. RF Exposure Evaluation

2.1. Test Limit

(A) Test Limit for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)		
0.3-3.0	614	1.63	*(100)	<6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1500	-	-	f/300	<6
1500-100,000	-	-	5	<6

(B) Test Limit for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (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

Note: f = frequency in MHz; *Plane-wave equivalent power density

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Power Density (S) is calculated by the following formula:

 $S=(P*G)/4\pi R^2$

where:

S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

 $\pi = 3.1416$

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)



2.2. Test Result of RF Exposure Evaluation

Band	conducted output power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm)	E.I.R.P (mW)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)
Bluetooth	15.01	3.00	18.010	63.241	0.013	1
Bluetooth LE	14.45	3.00	17.450	55.590	0.011	1
WiFi 2.4G	29.99	3.00	32.990	1990.673	0.396	1
WiFi 5G U-NII 1	23.50	5.15	28.650	732.825	0.146	1
WiFi 5G U-NII 2A	23.56	5.15	28.710	743.019	0.148	1
WiFi 5G U-NII 2C	23.96	5.15	29.110	814.704	0.162	1
WiFi 5G U-NII 3	26.37	5.15	31.520	1419.058	0.282	1
WiFi 5G U-NII 4	23.49	5.15	28.640	731.139	0.145	1
WiFi 6G U-NII 5	24.88	5.02	29.900	977.237	0.194	1

Note: The conducted output power is refer to report No.: 230526-08.TR14, 230526-08.TR81, 230526-08.TR16, 230526-08.TR10, 230526-08.TR17, 230526-08.TR18, 230526-08.TR11 and 230526-08.TR87 from the DEKRA.

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