



# RF EXPOSURE EVALUATION DECLARATION

Product Name	Pyxis LTE Router			
Brand Name	<b>S</b> UBIIK			
Model No.	RT1XR-S91US			
FCC ID	2AXTDRT1XRS91US			
Applicant´s Name / Address	Ubiik Inc. 19F., No. 17, Sec. 1, Chengde Rd., Datong Dist., Taipei City 103, Taiwan (R.O.C.)			
Manufacturer's Name / Address	Ubiik Inc. 19F., No. 17, Sec. 1, Chengde Rd., Datong Dist., Taipei City 103, Taiwan (R.O.C.)			
Test Method Requested, Standard	FCC CFR Title 47 Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices.			
Verdict Summary	IN COMPLIANCE			
Documented By	Jennie She Jennie Shu			
Approved By	Allen Lin			
Date of Receipt	Jul. 22, 2024			
Date of Issue	Dec. 18, 2024			
Report Version	V1.0			

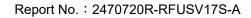
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#### **Competences and Guarantees**

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.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

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

**IMPORTANT:** No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

#### **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.
- This report must not be used to claim product endorsement by TAF or any agency of the government. 3.
- The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., 4. Ltd.
- Measurement uncertainties evaluated for each testing system and associated connections are given here to 5. 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.

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# **Revision History**

Version	Description	Issued Date
V1.0	Initial issue of report	Dec. 18, 2024

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#### 1. General Information

### 1.1. EUT Description

RF General Information				
Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type		
902~928	902.9~914.3 (UL: 902-915MHz / DL: 925-928MHz)	QPSK / 16QAM		

Note: The above EUT information is declared by the manufacturer.

### 1.2. Testing Location Information

Testing Location Information						
Test Laboratory : DEKRA Testing and Certification Co., Ltd.						
1	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.					
(TAF: 3024)	TEL: +886-3-582-8001 FAX: +886-3-582-8958					
	Test site Designation No. TW3024 with FCC.					
	Conformity Assessment Body Identifier (CABID) TW3024 with ISED.					
2	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.					
(TAF: 3024)	TEL: +886-3-582-8001 FAX: +886-3-582-8958					
	Test site Designation No. TW3024 with FCC.					
	Conformity Assessment Body Identifier (CABID) TW3024 with ISED.					
Test site number for address 1 includes HC-SR02. Test site number for address 2 includes HC-CB02,						

HC-CB03, HC-CB04, HC-SR10 and HC-SR12.

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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)	Power Density (S) (mW/ cm²)	Averaging Time  E ², H ² or S (minutes)
0.3-3.0	614	1.63	*(100)	<6
3.0-30	1842/f	4.89/f	*(900/f²)	<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/f²)	<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

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/ cm<sup>2</sup>)

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)

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# 2.2. Test Result of RF Exposure Evaluation

**Exposure Environment: General Population / Uncontrolled Exposure** 

Evaluation Mode	E.I.R.P (dBm)	E.I.R.P (mW)	Power Density (mW/cm²)	Limit (mW/cm²)	Test Result (PASS/FAIL)
902.9~914.3 MHz	27.790	601.174	0.120	0.606	PASS
Band 106	37.610	5767.665	0.546	0.599	PASS

Distance (cm): 29 for Maximum Permissible Exposure.

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