
RF Test Report

Report No.: AGC16823250801ER03

PRODUCT DESIGNATION : Ruuvi Air

BRAND NAME : Ruuvi

TEST MODEL : Ruuvi Air

APPLICANT : Ruuvi Innovations Ltd.

DATE OF ISSUE : Sep. 08, 2025

STANDARD(S) : ETSI EN 300 330 V2.1.1(2017-02)

REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 08, 2025	Valid	Initial Release

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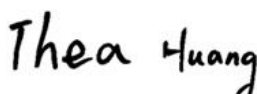
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1. TEST RESULT CERTIFICATION

Applicant	Ruuvii Innovations Ltd.
Address	Hameenkatu 10 B 132, RIIHIMAKI 11100, Finland
Manufacturer	Ruuvii Innovations Ltd.
Address	Hameenkatu 10 B 132, RIIHIMAKI 11100, Finland
Factory	Ruuvii Innovations Ltd.
Address	Hameenkatu 10 B 132, RIIHIMAKI 11100, Finland
Product Designation	Ruuvii Air
Brand Name	Ruuvii
Model Name	Ruuvii Air
Series Model	N/A
Difference Description	N/A
Date of receipt of test item	Aug. 15, 2025
Date of Test	Aug. 15, 2025 to Sep. 05, 2025

Note: The test results of this report relate only to the tested sample identified in this report.


Prepared By



Thea Huang
(Project Engineer)

Sep. 08, 2025

Reviewed By



Bibo Zhang
(Reviewer)

Sep. 08, 2025

Approved By



Angela Li
(Authorized Officer)

Sep. 08, 2025

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2. EUT DESCRIPTION

Details of technical specification for wireless charger refer to the description in follows:

Hardware Version	V1.0
Software Version	V1.0
Operation Frequency	13.56MHz
The permitted range of operating frequencies used	13.06-14.06MHz
Number of Channels	1 Channel
NFC Conducted output power:	No transmitter, receiver only
Antenna Type	Coil Antenna
Equipment Technology	<input checked="" type="checkbox"/> Tagging Systems <input type="checkbox"/> System in the 27MHz Range <input type="checkbox"/> all Other
Power Supply	DC 5V

NOTE: 1.For more information, please refer to User's Manual.

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3. DESCRIPTION OF TEST ITEMS

Harmonised Standard ETSI EN 300 330		
Requirement		Requirement Conditionality
No	Description	
1	Permitted range of operating frequencies	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable
2	Operating frequency ranges	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable
3	Modulation bandwidth	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable
4	Transmitter H-field requirements	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable
5	Transmitter RF carrier current	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable
6	Transmitter radiated E-field	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable
7	Transmitter conducted spurious emissions	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable
8	Transmitter radiated spurious domain emission limits < 30 MHz	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable
9	Transmitter radiated spurious domain emission limits > 30 MHz	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable
10	Transmitter Frequency stability	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable
11	Receiver spurious emissions	<input checked="" type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable
12	Adjacent channel selectivity	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable
13	Receiver blocking or desensitization	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable

4. TEST FACILITY

Test Site	Attestation of Global Compliance(Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

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5. ETSI EN 300 330 REQUIREMENT

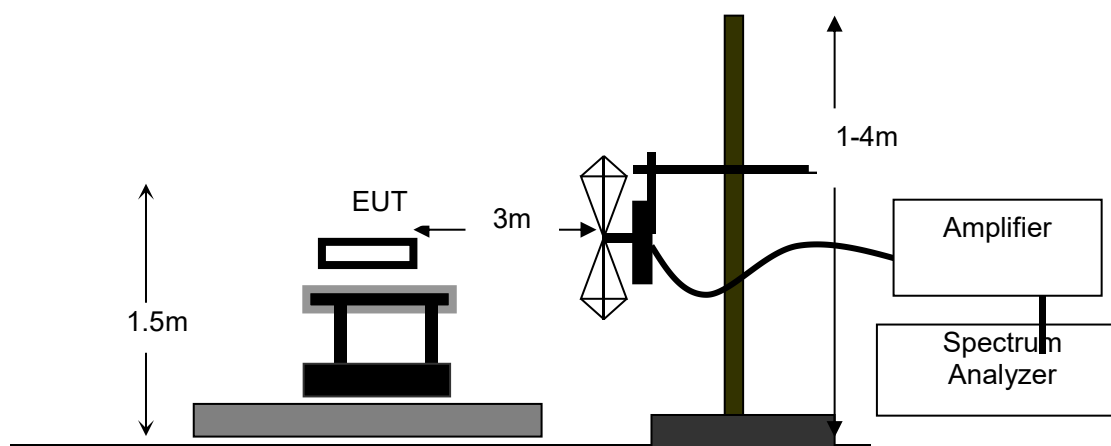
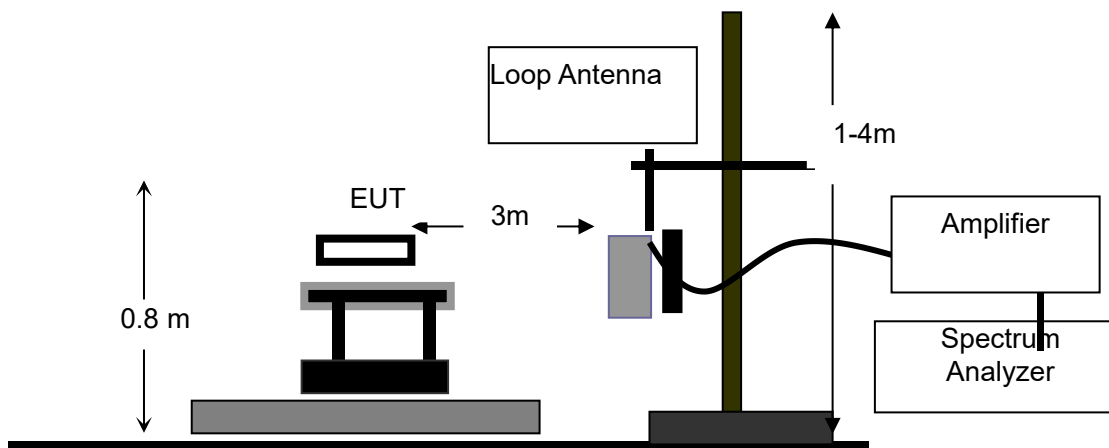
5.1 RECEIVER SPURIOUS EMISSIONS

MEASUREMENT EQUIPMENT USED:

NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	100096	Jan. 14, 2025	Jan. 13, 2026
Amplifier	EM	EM30180	060552	N/A	N/A
LOOP ANTENNA	R&S	HM525	N/A	Sep. 11, 2024	Sep. 10, 2025
ANTENNA	SCHWARZBECK	VULB9168	494	Mar. 14, 2025	Mar. 13, 2027

TEST SETUP:

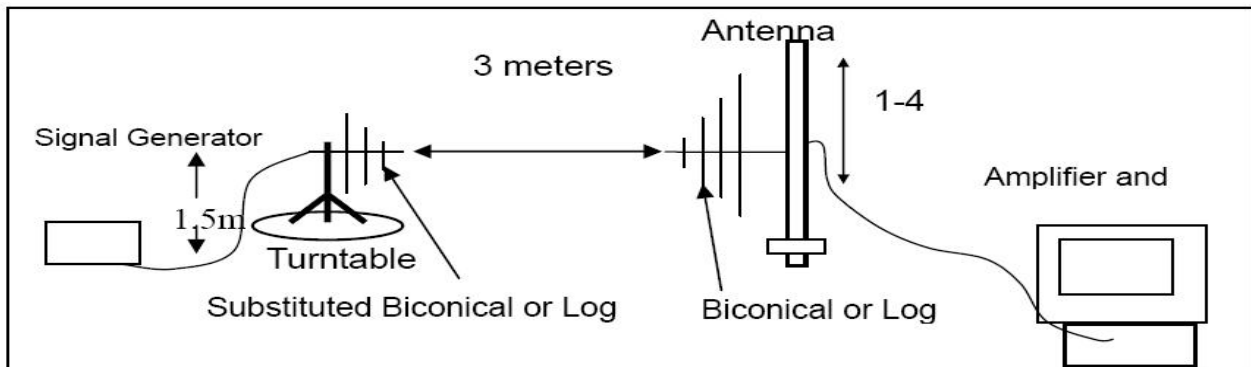
FREQUENCY RANGE (9KHZ-30MHZ)



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SUBSTITUTION METHOD:

RADIATED BELOW 1GHZ



TEST PROCEDURE:

For test method of frequency range (9kHz-30MHz)

The EUT was placed on the top of an insulating table 0.8 meters above the ground at a semi-anechoic chamber.

The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

The H-field is measured with a shielded loop antenna connected to a measurement receiver.

The measuring bandwidth and detector type of the measurement receiver shall be in accordance with EN 300 330 Table 1.

For test method of frequency range (30 MHz-1000MHz)

EUT was placed on a 1.5m height wooden table. The search antenna is placed at 3m distances from the EUT and search antenna height is from 1-4m. With the transmitter operating at continuously mode, the turntable was slowly rotated to locate the direction of maximum emission. Once maximum direction is determined, the search antenna was raised and lowered in both vertical and horizontal polarizations.

The EUT was removed from the turntable and replaced with a linearly polarized antenna connected to a calibrated RF signal generator. The RF generator was set to a measured emission frequency and the search antenna was raised and lowered to produce a maximum received reading. The generator output was increased to match the radiated emission reading measured previously, and the result expressed in dB EIRP or ERP, correcting for substitution antenna gain at each frequency.

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TEST RESULT AND LIMIT

BELOW 30MHZ

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dB μ A/m Q.P.)
9 kHz \leq f < 10 MHz	10	5.5dB μ A/m at 9 kHz descending 3 dB/oct
10 MHz \leq f < 30 MHz	10	-25 dB μ A/m

RECEIVER MODE					
Frequency	Reading level	Total Factor	Emission level	10M Limit	Margin
(MHz)	(dB μ A/m)	(dB)	(dB μ A/m)	(dB μ A/m)	(dB μ A/m)
--	--	--	--	5.5dB μ A/m at 9KHz descending 3dB/oct (9KHz – 10MHz)	--
--	--	--	--		--
--	--	--	--	-25dB μ A/m (10MHz – 30MHz)	--
--	--	--	--		--

Remark:	
(1)	Corrected Power (dBm) = Total Factor + Reading Level
(2)	Measuring frequencies from 9KHz to the 30MHz.
(3)	Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Receiver Spurious Emission below 1GHz (30MHz-1GHz)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
106.45	27.87	V	-67.19	0.04	0.92	-66.31	-57.00	9.31
160.17	29.39	V	-64.78	0.06	1.20	-63.64	-57.00	6.64
358.30	28.52	V	-70.17	0.25	6.54	-63.89	-57.00	6.89
533.55	26.09	V	-73.34	0.44	6.78	-67.01	-57.00	10.01
674.53	31.82	V	-67.49	0.55	6.64	-61.40	-57.00	4.40
833.53	30.69	V	-68.16	0.66	6.51	-62.31	-57.00	5.31
118.93	28.19	H	-67.00	0.04	1.04	-66.00	-57.00	9.00
161.99	29.68	H	-65.03	0.06	1.28	-63.81	-57.00	6.81
341.10	29.83	H	-68.35	0.23	5.68	-62.91	-57.00	5.91
540.98	28.19	H	-72.54	0.45	7.20	-65.79	-57.00	8.79
675.11	29.82	H	-69.31	0.55	6.60	-63.26	-57.00	6.26
829.26	27.57	H	-71.98	0.66	6.35	-66.29	-57.00	9.29

Note: 1.The margins of the other spectrum are not exceeding the minimum value of margin, and this part of the results without recording in the test report.

2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "--" remark, if no specific emission from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

6. INTERPRETATION OF MEASUREMENT RESULTS

All the measurement equipments and accessories have been carefully selected to meet the maximum measurement uncertainty specified below:

RF Frequency	$\pm 1 \times 10^{-7}$
RF Power, Conducted	$\pm 0.75\text{dB}$
Maximum Frequency Deviation: _ Within 300Hz and 6KHz of Audio Frequency _ Within 6KHz and 25KHz of Audio Frequency	$\pm 5\%$ $\pm 3\text{dB}$
Adjacent channel power	$\pm 3\text{dB}$
Conducted Emission of Transmitter, Valid Up to 12.75GHz	$\pm 4\text{dB}$
Conducted Emissions of Receivers	$\pm 3\text{dB}$
Radiated Emission of Transmitter, Valid Up to 12.75GHz	$\pm 6\text{dB}$
Radiated Emissions of Receivers	$\pm 6\text{dB}$

P.S. Uncertainty figures are valid to confidence level of 95% calculated according to the methods described in the ETSI TR 100 028.

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APPENDIX I: PHOTOGRAPHS OF TEST SETUP

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APPENDIX II: PHOTOGRAPHS OF TEST EUT

Refer to the Report No.: AGC16823250801AP01

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

----END OF REPORT----

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