



F2 Labs
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MPE REPORT

Manufacturer: Runwise, Inc.
104 West 27th Street, Floor 3
New York, New York 10001 USA

Applicant: Same as Above

Product Name: Gen2 Temperature and Humidity Sensor

Product Description: RF transmitter with onboard sensors, 900 MHz Radio

**Operating Voltage/Freq.
of EUT During Testing:** Battery-Operated (3VDC)

Model: V6.3

FCC ID: 2AQX2-G2RWSNS

Testing Commenced: 2024-01-24

Testing Ended: 2024-01-24

Test Results: In Compliance

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

Standards:

- KDB447498
- FCC 1.1310



Order No(s): F2P31406

Applicant: Runwise, Inc.
Model: V6.3

Evaluation Conducted by:

Julius Chiller, Senior Wireless Project Engineer

Report Reviewed by:

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1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio.

Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

1.2 Measurement Procedure:

All measurements were performed according to:

- KDB558074
- FCC 15.247
- FCC 15.249

1.4 Document History

Document Number	Description	Issue Date	Approved By
F2P31406-05E	First Issue	2024-05-01	K. Littell



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2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498 FCC 1.1310	Complies

Modifications Made to the Equipment
None



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3 ENGINEERING STATEMENT

This report has been prepared on behalf of Runwise, Inc. to provide documentation for the calculations described herein, based on the measurements taken in supporting Test Reports. This equipment has been tested and calculations were found to comply with KDB447498 and FCC 1.1310. The test results found in this test report relate only to the item(s) tested.



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4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: Temp/Humidity Sensor - 900 MHz Radio and Bluetooth Radio
Model: V6.3
Serial No.: 9
Firmware: V1.0
Hardware: V6.3
FCC ID: 2AQX2-G2RWSENS

4.2 Trade Name:

Runwise, Inc.

4.3 Power Supply:

Battery-Operated (3VDC)

4.4 Applicable Rules:

- KDB447498
- FCC 1.1310

4.5 Equipment Category:

Radio Transmitter-FHSS

4.6 Antenna:

Whip Antenna

4.7 Accessories:

Device	Manufacturer	Model Number	Serial Number
Launch Pad	Texas Instruments	CC1350	None Specified
Laptop*	Dell	Latitude 7490	None Specified

**Indicates F2 Labs-supplied equipment.*

4.8 Test Item Condition:

The equipment to be tested was received in good condition.



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5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

5.1 Requirements: Distance used is 20cm

FCC	
Limit:	2402 MHz = 1mW/cm ² 902.4 MHz = 0.602mW/cm ²
Formula Used for Result:	$E.I.R.P.$ $4 \pi R^2$
Results:	$E.I.R.P. = 0.021\text{mW}$ 0.021mW at the 2402 MHz Low Channel (highest) $0.021\text{mW} = \frac{0.021\text{mW}}{4 \pi R^2} = \frac{0.021\text{ mW}}{5026.55} = 0.000004 \text{ mW/cm}^2$ $P(\text{dBm}) = E(\text{dBuVm}) + 20\text{LOG}(d) - G - 104.77$ $78.4 + 9.542425 + 0 - 104.77 = -16.83\text{dBm}$ $P(\text{dBm}) = -16.83 \text{ which is } 0.021\text{mW}$ $\frac{0.000004 \text{ mW/cm}^2}{1\text{mW/cm}^2} = \text{Ratio of } 0.000004$ $E.I.R.P. = 1853.5\text{mW}$ 1853.5mW at the 902.4 MHz Low Channel (highest) $1853.5\text{mW} = \frac{1853.5\text{mW}}{4 \pi R^2} = \frac{1853.5\text{mW}}{5026.55} = 0.370 \text{ mW/cm}^2$ $\frac{0.370 \text{ mW/cm}^2}{0.602 \text{ mW/cm}^2} = 0.613 \text{ ratio}$ $0.613 \text{ ratio} + 0.000004 \text{ ratio} = 0.613004 \text{ combined ratio}$