

Senstream, Inc.

RF Exposure Exhibit

SCOPE OF WORK

EMC TESTING – Researcher Ring, Models: AT01

REPORT NUMBER

105113177MPK-008

ISSUE DATE

November 02, 2022

REVISED DATE

N/A

PAGES

8

DOCUMENT CONTROL NUMBER

Non-Specific Radio Report Shell Rev. December 2017 MPK
© 2017 INTERTEK



**RF Exposure Exhibit
(Portable devices)**

Report Number: 105113177MPK-008

Project Number: G105113177

Report Issue Date: November 02, 2022

Product Designation: Researcher Ring

Model Tested: AT01

FCC ID: 2A754-AT01

IC: 29615-AT01

to

47CFR 2.1093

RSS-102 Issue 5

for

Senstream, Inc.

Tested by:

Intertek
1365 Adams Court
Menlo Park, CA 94025 USA

Client:

Senstream, Inc.
314 Ski Way
Incline Village, NV 89451 USA

Report prepared by:



Gilberto Gallegos Rangel / EMC Engineer

Report reviewed by:



Minh Ly / EMC Team Lead

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Report No. 105113177MPK-008	
Equipment Under Test:	Researcher Ring
Model(s) Tested:	AT01
Applicant:	Senstream, Inc.
Contact:	James Phillips
Address:	Senstream, Inc. 314 Ski Way Incline Village, NV 89451
Country:	USA
Email:	jim@senstream.com
Applicable Regulation:	47CFR 2.1093 RSS-102 Issue 5

TABLE OF CONTENTS

1.0	<i>RF Exposure Summary.....</i>	5
2.0	<i>RF Exposure Limits</i>	5
3.0	<i>Test Results (Portable Configuration)</i>	6
4.0	<i>Document History</i>	8

1.0 RF Exposure Summary

Test	Reference FCC	Reference Industry Canada	Result
Radio frequency Radiation Exposure Evaluation	47 CFR§2.1093	RSS-102 Issue 5	Complies

2.0 RF Exposure Limits**2.1 FCC Limits**

According to FCC KDB 447498 D01 v07 Appendix B, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 3 mW.

2.2 Industry Canada Limits

According to RSS-102 sec. 2.5.1, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 4 mW.

3.0 Test Results (Portable Configuration)

3.1 Classification

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

3.2 EIRP calculations

The Researcher Ring consists of Bluetooth Low Energy.

3.3 Maximum RF Power

Frequency Range (MHz)	RF Output (dBm)	Antenna Gain ¹ (dBi)	Note
2402-2480	1.06	0.5	Conducted power measurements were taken from Report #105113177MPK-001.

¹As declared by the manufacturer.

3.4 RF Exposure Calculation

3.4.1 RF Exposure calculation for FCC KDB 447498 D01 v07

According to FCC KDB 447498 D01 v07 Appendix B, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 3 mW.

Max Peak Conducted Power measured = 1.06 dBm or 1.267 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is 1.06 dBm (RF Conducted Power) + 0.5dBi (Antenna Gain) = 1.56 dBm or 1.432 mW.

Results: SAR evaluation is not required since the higher of the maximum conducted or equivalent isotopically radiated power (EIRP) source-based, time averaged output power is below the exemption limit.

Note: Antenna gains below 0 are considered as 0dBi.

3.4.2 RF Exposure calculation for RSS-102 Issue 5

According to RSS-102 sec. 2.5.1, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 4 mW.

Max Peak Conducted Power measured = 1.06 dBm or 1.267 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is 1.06 dBm (RF Conducted Power) + 0.5 dBi (Antenna Gain) = 1.56 dBm or 1.432 mW.

Results: SAR evaluation is not required since the higher of the maximum conducted or equivalent isotopically radiated power (EIRP) source-based, time averaged output power is below the exemption limit.

Note: Antenna gains below 0 are considered as 0dBi.

4.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0/ G105113177	GGR	ML	November 02, 2022	Original document