NSE Products, Inc.
RF Exposure Exhibit

SCOPE OF WORK
EMC TESTING – AngeLOC LumiSpa iO, Model: LS2F

REPORT NUMBER
104685526MPK-009a

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Non-Specific Radio Report Shell Rev. December 2017 MPK

RF Exposure Exhibit
(Portable devices)

Report Number: 104685526MPK-009a
Project Number: G104685526

Report Issue Date: October 18, 2022

Product Designation: AgeLOC LumiSpa iO
Model Tested: LS2F

FCC ID: 2AZ3A-LS2F
IC: 26225-LS2F

to

47CFR 2.1093
RSS-102 Issue 5

for

NSE Products, Inc.

Tested by:	**Client:**
Intertek	NSE Products, Inc.
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Report prepared by:	**Report reviewed by:**
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Report No. 104685526MPK-009a	
Equipment Under Test:	AgeLOC LumiSpa iO
Model(s) Tested:	LS2F
Applicant:	NSE Products, Inc.
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Applicable Regulation:	47CFR 2.1093 RSS-102 Issue 5

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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. Per the applicant, NSE Products, Inc. is not intended to be worn on the body.

3.2 EIRP calculations

The AgeLOC LumiSpa iO consists of Bluetooth Low Energy and RFID radios.
Note: RFID radio complies Field Strength limits of 47 CFR FCC Part 15 sub part 15.225 as per test Report #104685526MPK-008. RFID radio is exempted from SAR requirements.

3.3 Maximum RF Power

Frequency Range (MHz)	RF Output (dBm)	Antenna Gain[1] (dBi)	Note
2402-2480	-1.77	2.0	Conducted power measurements were taken from Report #104685526MPK-005.

[1]As declared by the manufacturer.

3.4 RF Exposure Calculation for AgeLOC LumiSpa iO

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 = -1.77 dBm or 0.67 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is -1.77 dBm (RF Conducted Power) + 2.0 dBi (Antenna Gain) = 0.23 dBm or 1.05 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 = -1.77 dBm or 0.67 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is 0.8 dBm (RF Conducted Power) + 2.0 dBi (Antenna Gain) = 0.23 dBm or 1.05 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/ G104685526	AC	ML	October 18, 2022	Original document