

## Template Revision History

Revision	Date	Revised By	Reason for Revision
Rev 1.0	5/20/11	SMS	Retype into MS2010 and inserted GM links
Rev 2.0	12/9/13	MSE	Added section for Test Setup Photos, changed address of new building on title page, changed FCC & IC site registration #
Rev 3.0	3/3/2014	JE	Add minimum safe distance provision. Correct SAR exemption calculation to match latest revision of KDB 447498.
4.0	7/21/15	AR	Updated formatting issues throughout report
5.0	9/29/15	AR	
6.0	10/13/17	AReed	Added statement to report regarding max output power
7.0	9/7/18	AReed	Corrected GM fields & general formatting issues

- 1) **ITEMS IN RED THROUGHOUT THE REPORT ARE ITEMS THAT NEED TO BE ADDRESSED BY THE ENG AT THE TIME OF COMPLETION.**

## Test Report

**Prepared for:** Ink-U-Beta AG

**Model:** SUN02

**Description:** Wearable UV Tracker

**Serial Number:** N/A

**FCC ID:** 2BA7X-SUN02

**To**

**FCC Part 1.1310**

**Date of Issue:** June 23, 2023

**On the behalf of the applicant:**

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**Attention of:**

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**John Michalowicz**  
**Project Test Engineer**  
**Reviewed By**

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### Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	6/22/23	John Michalowicz	Original Document
2.0	7/12/23	John Michalowicz	Updated test distance to 5mm

## ANAB

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to the joint ISO-ILAC-IAF Communiqué dated January 2009).

The tests results contained within this test report all fall within our scope of accreditation, unless noted below.

Please refer to <http://www.compliantesting.com/labscope.html> for current scope of accreditation.



**FCC Site Reg. #349717**

**IC Site Reg. #2044A-2**

### Non-accredited tests contained in this report:

N/A

### EUT Description

**Model:** SUN02

**Description:** Wearable UV Tracker

**Firmware:** N/A

**Software:** N/A

**Serial Number:** N/A

**Additional Information:** The EUT is a wearable UV tracker which communicates data wirelessly to a user's personal device via BLE 2.4 GHz technology.

## MPE Evaluation

This is a portable device used in Uncontrolled Exposure environment.

**Limits Uncontrolled Exposure**  
**47 CFR 1.1310**  
**Table 1, (B)**

0.3-1.234 MHz:	Limit [mW/cm <sup>2</sup> ] = 100
1.34-30 MHz:	Limit [mW/cm <sup>2</sup> ] = (180/f <sup>2</sup> )
30-300 MHz:	Limit [mW/cm <sup>2</sup> ] = 0.2
300-1500 MHz:	Limit [mW/cm <sup>2</sup> ] = f/1500
1500-100,000 MHz	Limit [mW/cm <sup>2</sup> ] = 1.0

## Test Data

Test Frequency, MHz	2402
Power, EIRP, mW (P)	4.81
Antenna Type	chip
Distance (R)	5 mm

## Per KDB

This is for calculating a SAR exclusion per KDB 447498.

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq$  50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}]$   
 $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,<sup>25</sup> where

- $f_{(\text{GHz})}$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>26</sup>
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

$$[(3.03)/(5\text{mm})] [1.55] \\ 0.606 * 1.55 = 0.939$$

The test exclusions are applicable only when the minimum *test separation distance* is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is  $<$  5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

**0.939 < 3.0**

**The EUT is compliant with KDB 447498**

END OF TEST REPORT