



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Time Keeping Systems Inc.

Model: TAG-006

Description: Body Worn Location Device

Serial Number: N/A

FCC ID: MTD-0006

To

FCC Part 1.1310

Date of Issue: June 25, 2018

On the behalf of the applicant:

Time Keeping Systems Inc.
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Attention of:

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Project No: p1850027

Kenneth Lee
Project Test Engineer

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Test Report Revision History

| Revision | Date | Revised By | Reason for Revision |
|----------|---------------|-------------|--|
| 1.0 | June 19, 2018 | Kenneth Lee | Original Document |
| 2.0 | June 25, 2018 | Kenneth Lee | Updated the term BLE to GFSK in additional Information |
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ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)

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

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

Testing Certificate Number: **2152.01**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model: TAG-006

Description: Body Worn Location Device

Firmware: N/A

Software: N/A

Serial Number: N/A

Antenna Gain: -1.6 dBi

Additional Information: The EUT implements GFSK.

SAR Exclusion

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 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 ≤ 7.5 for 10-g extremity SAR,²⁵ where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁶
- 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

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 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.

Max Power in mW = 2.26 mW

Antenna Gain = -1.6 dB

Power with antenna gain = 1.57 mW

Min. Test Separation Distance = 1 mm

Frequency of Operation = 2426 MHz

The antenna gain of the device is negative; therefore the conducted output power was used for the final calculation.

$$\frac{2.26 \text{ mW}}{5 \text{ mm}} \times \sqrt{2.426} = 0.70401811$$

END OF TEST REPORT