



## **Compliance Testing, LLC**

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

toll-free: (866) 311-3268

fax: (480) 926-3598

<http://www.ComplianceTesting.com>

[info@ComplianceTesting.com](mailto:info@ComplianceTesting.com)

### **Test Report**

**Prepared for: Q-Track Corporation**

**Model: QT-643 TX Tag**

**Description: Powered Asset Tracking Tag**

**Serial Number: 11**

**FCC ID: VJ3-QT-643-TAG**

**To**

**FCC Part 1.1310**

**Date of Issue: January 11, 2018**

**On the behalf of the applicant:**

**Q-Track Corporation  
2223 Drake Avenue SW  
1<sup>st</sup> Floor  
Huntsville, AL 35805**

**Attention of:**

**Hans Schantz, Chief Technical Officer  
Ph: (256)489-0075  
Email: [h.schantz@q-track.com](mailto:h.schantz@q-track.com)**

**Prepared By  
Compliance Testing, LLC  
1724 S. Nevada Way  
Mesa, AZ 85204  
(480) 926-3100 phone / (480) 926-3598 fax  
[www.compliancetesting.com](http://www.compliancetesting.com)  
Project No: p17a0005**

**Kenneth Lee  
Project Test Engineer**

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### Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	October 13, 2017	Kenneth Lee	Original Document



## 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:** QT-643 TX Tag

**Description:** Powered Asset Tracking Tag

**Firmware:** N/A

**Software:** N/A

**Serial Number:** 11

**Additional Information:** The EUT normally operates with a 100% Duty Cycle and transmits on a single channel.



## SAR Exclusion

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:

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

- $f(\text{GHz})$  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

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.

Max Power in mW = 0.00000000276 mW  
Min. Test Separation Distance = 5 mm  
Frequency of Operation in GHz = 0.003086

$$\frac{0.00000000276 \text{ mW}}{5 \text{ mm}} \times [\sqrt{f(0.003086)}] = 0.0000000003066$$

END OF TEST REPORT