



Compliance Testing, LLC

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toll-free: (866) 311-3268

fax: (480) 926-3598

<http://www.ComplianceTesting.com>

info@ComplianceTesting.com

Test Report

Prepared for: Southfork Solutions, Inc.

Model: Gen 3

Description: Electronic Ear Tag

To

FCC Part 1.1310

Date of Issue: July 2, 2012

On the behalf of the applicant:

**Southfork Solutions, Inc.
8021 W. 17th South
Idaho Falls, ID 83402**

Attention of:

**Mark Riddersen, Sr. Project Manager
Ph: (208) 521-5803
E-Mail: riddtech@gmail.com**

**Prepared By
Compliance Testing, LLC
3356 N San Marcos Pl, Suite 107
Chandler, AZ 85225-7176
(866) 311-3268 phone / (480) 926-3598 fax
www.compliancetesting.com
Project No: p1260005**

**Greg Corbin
Project Test Engineer**

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	July 2, 2012	Greg Corbin	Original Document
2.0	February 12, 2013	Greg Corbin	Updated report to reflect the new requirements in KDB 447498 D01 v05
3.0	March 06, 2013	Greg Corbin	Updated report with new output power data



ILAC / A2LA

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

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Testing Certificate Number: **2152.01**



FCC OATS Reg, #933597

IC Reg. #2044A-1

Non-accredited tests contained in this report:

N/A



Description

The electronic ear tag transmits a S/N that has been programmed into the tag during the manufacturing process. The tag information is sent to the reader once the reader transmits a wake up signal detected by the tag, the tag wakes up and determines the request is specifically intended for the tag and then transmits the signal back to the reader.

The ear tag is capable of sending stored information, temperature and voltage level of the onboard battery.

The EUT operates on a single transmit frequency at 902.5 MHz and receives information from the tag reader at 927.5 MHz.

The EUT operates on a 3.0 v coin cell battery, (CR2032).

This is a **mobile** device.

Measurement Result

This device meets the requirements of the table (SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm in Appendix A of KDB 447498 D01 General RF Exposure Guidance v05).

This device mounts on the ear of a cow and will have a separation distance > 5 mm from the user. Using the worst case threshold from the table at 900 MHz and 5 mm separation distance, the SAR Test Exclusion Threshold is 16 mW.

The EUT operates at 902.5 MHz and has a conducted power = 2.59 mw at 100% duty cycle.

The antenna gain of this device is 0 dBi.

Therefor the maximum transmit power is 2.59 mw which is below the SAR Test Exclusion Threshold of 16 mW at 5 mm separation distance per the (SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm) in Appendix A of KDB 447498 D01 General RF Exposure Guidance v05.

The SAR measurement is not necessary.

END OF TEST REPORT