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: Knox Company

Model: KSM200K2 & KLS400K2

Description: Key Retention Device

Serial Number: N/A

FCC ID: Z64-CC3100MODR1

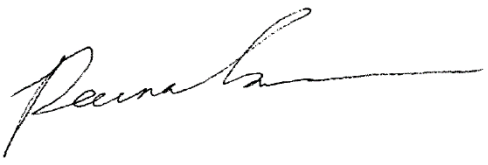
To

FCC Part 1.1310

Date of Issue: August 3, 2017

On the behalf of the applicant:	**Knox Company** **1601 W Deer Valley Rd** **Phoenix, AZ 85027**
Attention of:	**Howard Needham, Sr. Engineer** **Ph: (623)687-2300** **Email: hneedham@knoxbox.com**

Prepared By
Compliance Testing, LLC
1724 S. Nevada Way
Mesa, AZ 85204
(480) 926-3100 phone / (480) 926-3598 fax
www.compliancetesting.com
Project No: p1690016-TCB



Poona Saber
Project Test Engineer

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	August 3, 2017	Poona Saber	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

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Testing Certificate Number: **2152.01**

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IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description
Model: KSM200K2 & KLS-400K2
Description: Keysecure is a key retention device used for securing the Knox mechanical key in emergency vehicles
Firmware: NA
Software: NA
Serial Number: NA
Additional Information:
Device incorporates a 2.4 GHz module incorporating a 5dBi Air802 antenna, Model: ANRD2405-RPSMA

Source Based Time Averaged Power Calculation

Average Power calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Conducted Peak Output Power (mW)	Duty Cycle (%)	Average Power (mW)
2437	0.029	100	0.029

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/cm²] = 100
	1.34-30 MHz:	Limit [mW/cm²] = (180/f²)
	30-300 MHz:	Limit [mW/cm²] = 0.2
	300-1500 MHz:	Limit [mW/cm²] = f/1500
	1500-100,000 MHz	Limit [mW/cm²] = 1.0

Test Data

Test Frequency, MHz	2437
Power, Conducted, mW (P)	29.1
Antenna Gain Isotropic	5 dBi
Antenna Gain Numeric (G)	3.16
Antenna Type	patch
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm^2

Power Density (S) = 0.018
Limit =(from above table) = 1

So the Unit shall be at least 20 centimeters away from human bodies.

END OF TEST REPORT