



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

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**

This report may not be reproduced, except in full, without written permission from Compliance Testing
All results contained herein relate only to the sample tested



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

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: 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/cm ²] = 100
1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
30-300 MHz:	Limit [mW/cm ²] = 0.2
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 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