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: CentraLite Systems

Model: 3146

Description: Villa 3-Button In-Wall Relay

Serial Number: N/A

FCC ID: T3L-SS041
IC: 12192A-SS041

To

FCC Part 1.1310

Date of Issue: July 3, 2017

On the behalf of the applicant:	**CentraLite Systems** **1000 Cody Road South** **Mobile, AL 36695**
Attention of:	**John Calagaz, CTO** **Ph: (877)466-5483** **Email: johncalagza@centralite.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: p1740018

Poona Saber
Project Test Engineer

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	May 3, 2017	Poona Saber	Original Document
2.0	June 30, 2017	Poona Saber	Revised calculations

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: 3146
Description: Villa 3-Button In-Wall Relay
Firmware: N/A
Software: N/A
Serial Number: N/A
Additional Information: The EUT is a wall mounted switched intended to control lighting in a residential environment. It incorporates a 2.4 GHz radio which spans from 2405MHz – 2480MHz with an emissions designator 2M52F7D

Average Power calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Peak EIRP (mW)	Duty Cycle (%)	Average Power (mW)
2440	3.08	100	3.08

EUT comes to close proximity of human's body and is investigated below for SAR exclusion per KDB 447498

1) 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:

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,25 where

• f(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

(3.08/5) x √2.44= 0.95 ≤ 3.0

Note: 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.

END OF TEST REPORT