Compliance Testing, LLC
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Test Report

Prepared for: CentraLite Systems

Model: 3315

Description: 3-Series Water Sensor

Serial Number: N/A

FCC ID: T3L-SS043

To

FCC Part 1.1310

Date of Issue: January 11, 2018

On the behalf of the applicant:

CentraLite Systems
1000 Cody Road South
Mobile, AL 36695

Attention of:

Adel A. Sakla, Senior Hardware Engineer
Ph: (877)466-5483
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Prepared By
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Project No: p17c0013

Poona Saber
Project Test Engineer

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	January 9, 2018	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**

FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description
Model: 3310-G
Description: Temp & Humidity Sensor
Firmware: NA
Software: NA
Serial Number: NA
The EUT implements Zigbee technology and it had different power setting for the high channel, channels 11-24 were set to -2 dBm, channel 25 was set to -6dBm and channel 26 was set to -26.

EUT Operation during Tests
The EUT was set to transmit at the lowest, middle and highest channel of operation at the maximum available output power for each channel. The control of the power and channel settings were done with a Silicon Labs ISA3 debugger.

Source Based Time Averaged Power Calculation

Average Power calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Peak Output Power EIRP (mW)	Duty Cycle (%)	Average Power (mW)
2445	9.88	100	9.88

Minimum Safe Distance Evaluation

This is a mobile 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	2445
Power, EIRP, mW (P)	9.88
Antenna Type	PCB trace Antenna
Limit (L)	1

$R=\sqrt{(PG/4\pi L)}$		
Distance (R) cm	Power mW (P)	Limit (L)
0.0019656215	9.88	1

Note: Max output power value is obtained from associated report.

END OF TEST REPORT