



Compliance Testing, LLC
Previously Flom Test Lab
EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Beyond-HMI

Model: Reach

Description: BTLE Interface

Serial Number: N/A

FCC ID: 2AF59-REACH10

To

FCC Part 1.1310

Date of Issue: January 6, 2016

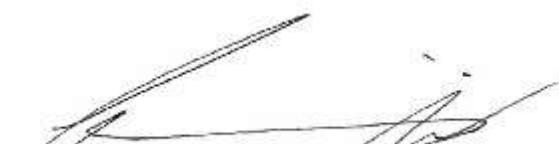
On the behalf of the applicant:

**Beyond-HMI
22419 Kendall Shay Court
Katy, TX 77450**

Attention of:

**Tom Mills, Engineer
Ph: (832)488-5745
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Prepared By
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Project No: p1580027



**Alex Macon
Project Test Engineer**

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	October 9, 2015	Alex Macon	Original Document
2.0	January 6, 2016	Amanda Reed	Added FCC ID



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: Reach

Description: BTLE Interface

Firmware: N/A

Software: N/A

Serial Number: N/A

Additional Information:

The EUT is a BTLE Interface between phone or tablet and industrial control device

EUT Operation during Tests

The EUT was powered with an AC/DC Adapter supplying 12VDC. The device was placed into continuous transmission mode using test software supplied by the manufacturer.



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)
2402	.678	100	.678



MPE Evaluation

This is a fixed 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	2402
Power, Conducted, mW (P)	.678
Antenna Gain Isotropic	6 dBi
Antenna Gain Numeric (G)	3.98
Antenna Type	omni
Distance (R)	20 cm

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

Formula	$S = P * G / 4 * \pi * r^2$		
Power Density (S) mw/cm ²	Power mW (P)	Numeric Gain (G)	Distance (r ²) cm
0.0005368534	0.678	3.98	20

Power Density (S) = .0005
Limit =(from above table) = 1.0

END OF TEST REPORT