



FCC PART 2 & PART 90 CIIPC REPORT

For

Cohda Wireless Pty Ltd

82-84 Melbourne Street, North Adelaide, SA 5006, Australia

FCC ID: 2AEGPMK5RSU

Report Type: Product Type:

CIIPC Report Road Side Unit

Vio La

Vincent Licata

Prepared By: Test Engineer

Report Number: R1710263

Report Date: 2017-12-13

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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by A2LA*, NIST, or any agency of the Federal Government.

^{*} This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "*"

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision | |
|-----------------|---------------|-------------------------|------------------|--|
| 0 | R1710263 | CIIPC Report | 2017-12-13 | |

1 General Description

1.1 Product Description for Equipment Under Test (EUT)

This test report was prepared on behalf of, *Cohda Wireless Pty Ltd*, and their product: DSRC RSU module, Model: *MK5*, FCC ID: *2AEGPMK5RSU* or the "EUT" as referred to in this report.

Note: MK5 is installed in host model: RSU PoE along with pre-approved Wi-Fi/BT module (FCC ID: XF6-RS9113DB) and UMTS/LTE Data Module (FCC ID: XPYTOBYL201).

1.2 Mechanical Description of EUT

The EUT measures 13cm (L), 8.3cm (W), 5cm (H), and weighs 0.05 kg, and the host measures 31cm (L), 27cm (W), 8cm (H), and weighs 2.94kg.

The data gathered are from a production sample provided by the manufacturer, host device serial number: 04E548100280, assigned by Client.

1.3 Objective

This report is prepared on behalf of *Cohda Wireless Pty Ltd* in accordance with Part 2, Part 90 to show compliance with multi-transmitter requirements.

This project is a Permissive Change II submission for the purpose of changing DSRC RSU module to allow colocation with Wi-Fi/BT module and UMTS/LTE module in host device model: RSU PoE.

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

All measurements contained in this report were conducted in accordance with TIA-603-D, Land Mobile FM or PM Communications Equipment Measurement and Performance Standards and ASTM E2213-03, Standard Specification for Telecommunications and Information Exchange Between Roadside and Vehicle Systems – 5 GHz Band Dedicated Short Range Communications (DSRC) Medium Access Control (MAC) and Physical Layer (PHY) Specifications. They also were conducted in accordance with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and FCC KDB 558074 D01 DTS Meas Guidance v04: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

| Parameter | Measurement uncertainty | | |
|----------------------------------|-------------------------|--|--|
| Occupied Channel Bandwidth | ±5 % | | |
| RF output power, conducted | ±1.48 dB | | |
| Unwanted Emissions, conducted | ±1.57 dB | | |
| All emissions, radiated | ±4.0 dB | | |
| AC power line Conducted Emission | ±2.0 dB | | |
| Temperature | ±2 °C | | |
| Humidity | ±5 % | | |
| DC and low frequency voltages | ±1 % | | |
| Time | ±2 % | | |
| Duty Cycle | ±3 % | | |

1.7 Test Facility Registrations

BACLs test facilities that are used to perform Radiated and Conducted Emissions tests are currently recognized by the Federal Communications Commission as Accredited with NIST Designation Number US1129.

BACL's test facilities that are used to perform Radiated and Conducted Emissions tests are currently registered with Industry Canada under Registration Numbers: 3062A-1, 3062A-2, and 3062A-3.

BACL is a Chinese Taipei Bureau of Standards Metrology and Inspection (BSMI) validated Conformity Assessment Body (CAB), under Appendix B, Phase I Procedures of the APEC Mutual Recognition Arrangement (MRA). BACL's BSMI Lab Code Number is: SL2-IN-E-1002R

BACL's test facilities that are used to perform AC Line Conducted Emissions, Telecommunications Line Conducted Emissions, Radiated Emissions from 30 MHz to 1 GHz, and Radiated Emissions from 1 GHz to 6 GHz are currently recognized as Accredited in accordance with the Voluntary Control Council for Interference [VCCI] Article 15 procedures under Registration Number A-0027.

1.8 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

A- An independent, 3rd-Party, Commercial Test Laboratory accredited to ISO/IEC 17025:2005 by A2LA (Test Laboratory Accreditation Certificate Number 3279.02), in the fields of: Electromagnetic Compatibility and Telecommunications. Unless noted by an Asterisk (*) in the Compliance Matrix (See Section 3 of this Test Report), BACL's ISO/IEC 17025:2005 Scope of Accreditation includes all of the Test Method Standards and/or the Product Family Standards detailed in this Test Report..

BACL's ISO/IEC 17025:2005 Scope of Accreditation includes a comprehensive suite of EMC Emissions, EMC Immunity, Radio, RF Exposure, Safety and wireline Telecommunications test methods applicable to a wide range of product categories. These product categories include Central Office Telecommunications Equipment [including NEBS - Network Equipment Building Systems], Unlicensed and Licensed Wireless and RF devices, Information Technology Equipment (ITE); Telecommunications Terminal Equipment (TTE); Medical Electrical Equipment; Industrial, Scientific and Medical Test Equipment; Professional Audio and Video Equipment; Industrial and Scientific Instruments and Laboratory Apparatus; Cable Distribution Systems, and Energy Efficient Lighting.

B- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3279.03) to certify

- For the USA (Federal Communications Commission):
 - 1- All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
 - 2- All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
 - 3- All Telephone Terminal Equipment within FCC Scope C.
- For the Canada (Industry Canada):
 - 1 All Scope 1-Licence-Exempt Radio Frequency Devices;
 - 2 All Scope 2-Licensed Personal Mobile Radio Services;
 - 3 All Scope 3-Licensed General Mobile & Fixed Radio Services;
 - 4 All Scope 4-Licensed Maritime & Aviation Radio Services;
 - 5 All Scope 5-Licensed Fixed Microwave Radio Services
 - 6 All Broadcasting Technical Standards (BETS) in the Category I Equipment Standards List.
- For Singapore (Info-Communications Development Authority (IDA)):
 - 1 All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2
 - 2. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2
- For the Hong Kong Special Administrative Region:
 - 1 All Radio Equipment, per KHCA 10XX-series Specifications;
 - 2 All GMDSS Marine Radio Equipment, per HKCA 12XX-series Specifications;
 - 3 All Fixed Network Equipment, per HKCA 20XX-series Specifications.
- For Japan:
 - MIC Telecommunication Business Law (Terminal Equipment):
 - All Scope A1 Terminal Equipment for the Purpose of Calls;
 - All Scope A2 Other Terminal Equipment
 - 2 Radio Law (Radio Equipment):
 - All Scope B1 Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
 - All Scope B2 Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
 - All Scope B3 Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law

C- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3279.01) to certify Products to USA's Environmental Protection Agency (EPA) ENERGY STAR Product Specifications for:

- 1 Electronics and Office Equipment:
 - for Telephony (ver. 3.0)
 - for Audio/Video (ver. 3.0)
 - for Battery Charging Systems (ver. 1.1)
 - for Set-top Boxes & Cable Boxes (ver. 4.1)
 - for Televisions (ver. 6.1)

- for Computers (ver. 6.0)
- for Displays (ver. 6.0)
- for Imaging Equipment (ver. 2.0)
- for Computer Servers (ver. 2.0)
- 2 Commercial Food Service Equipment
 - for Commercial Dishwashers (ver. 2.0)
 - for Commercial Ice Machines (ver. 2.0)
 - for Commercial Ovens (ver. 2.1)
 - for Commercial Refrigerators and Freezers
- 3 Lighting Products
 - For Decorative Light Strings (ver. 1.5)
 - For Luminaires (including sub-components) and Lamps (ver. 1.2)
 - For Compact Fluorescent Lamps (CFLs) (ver. 4.3)
 - For Integral LED Lamps (ver. 1.4)
- 4 Heating, Ventilation, and AC Products
 - for Residential Ceiling Fans (ver. 3.0)
 - for Residential Ventilating Fans (ver. 3.2)
- 5 Other
- For Water Coolers (ver. 3.0)

D- A NIST Designated Phase-I and Phase-II Conformity Assessment Body (CAB) for the following economies and regulatory authorities under the terms of the stated MRAs/Treaties:

- Australia: ACMA (Australian Communication and Media Authority) APEC Tel MRA -Phase I;
- Canada: (Innovation, Science and Economic development Canada ISEDC) Foreign Certification Body FCB APEC Tel MRA -Phase I & Phase II;
- Chinese Taipei (Republic of China Taiwan):
 - o BSMI (Bureau of Standards, Metrology and Inspection) APEC Tel MRA -Phase I;
 - o NCC (National Communications Commission) APEC Tel MRA -Phase I;
- European Union:
 - o EMC Directive 2014/30/EU US-EU EMC & Telecom MRA CAB (NB)
 - Radio & Teleterminal Equipment (R&TTE) Directive 1995/5/EC US -EU EMC & Telecom MRA CAB (NB)
 - o Radio Equipment (RE) Directive 2014/53/EU US-EU EMC & Telecom MRA CAB (NB)
 - o Low Voltage Directive (LVD) 2014/35/EU
- Hong Kong Special Administrative Region: (Office of the Telecommunications Authority OFTA)
 APEC Tel MRA -Phase I & Phase II
- Israel US-Israel MRA Phase I
- Republic of Korea (Ministry of Communications Radio Research Laboratory) APEC Tel MRA -Phase I
- Singapore: (Infocomm Media Development Authority IMDA) APEC Tel MRA -Phase I & Phase II;
- Japan: VCCI Voluntary Control Council for Interference US-Japan Telecom Treaty VCCI Side Letter-
- USA:
 - ENERGY STAR Recognized Test Laboratory US EPA
 - Telecommunications Certification Body (TCB) US FCC;
 - Nationally Recognized Test Laboratory (NRTL) US OSHA
- Vietnam: APEC Tel MRA -Phase I;

2 System Test Configuration

2.1 Justification

The EUT was configured for testing according to ASTM E2213-03.

The EUT was tested in a testing mode to represent worst-case results during the final qualification test.

2.2 EUT Exercise Software

The test utility used was putty.

2.3 Special Equipment

There were no special accessories were required, included, or intended for use with EUT during these tests.

2.4 Equipment Modifications

No modifications were made to the EUT.

2.5 Local Support Equipment

| Manufacturer | Description | Model | Serial Number | |
|--------------|-------------|----------------|---------------|--|
| Dell | Laptop | Latitude E6410 | Unknown | |

2.6 Power Supply and Line Filters

| Manufacturer | Description | Model | Serial Number |
|--------------|-----------------|-------|---------------|
| BK PRECISION | DC Power Supply | E3 | Unknown |

2.7 Interface Ports and Cabling

| Cable Descriptions | Length (m) | From | To | |
|--------------------|------------|------------------|----------------------|--|
| CAT6 | 2 | EUT – Eth Port 1 | Laptop Ethernet Port | |

3 Summary of Test Results

Results reported relate only to the product tested.

| FCC Rules | Description of Test | Results |
|--------------------------------------|-----------------------------|-----------|
| FCC §2.1091 | RF Exposure | Compliant |
| FCC §2.1053, ASTM E2213-03 §8.9.2 | Radiated Spurious Emissions | Compliant |

FCC §2.1091– RF Exposure

According to §2.1091 (Mobile Devices) RF exposure is calculated.

Limits for General Population/Uncontrolled Exposure

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm²) | Averaging Time (minute) |
|--------------------------|-------------------------------------|-------------------------------------|---------------------------|----------------------------|
| | Limits for Gene | eral Population/Uncon | trolled Exposure | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | f/1500 | 30 |
| 1500-100,000 | / | / | 1.0 | 30 |

Note: f = frequency in MHz

4.1 **MPE Prediction**

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

 $S = PG/4\pi R^2$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

4.2 **Test Results**

For transmission with DSRC, 3G, Wi-Fi, and BT

DSRC (FCC ID: 2AEGPMK5RSU)

Maximum peak output power at antenna input terminal (dBm): 22.81

199.99 Maximum peak output power at antenna input terminal (mW):

> Prediction distance (cm): 20

Predication frequency (MHz): 5860

Maximum Antenna Gain, typical (dBi): 6.10 Maximum Antenna Gain (numeric): 4.074

0.155

Power density of prediction frequency at prediction distance (mW/cm²):

limit (mW/cm²): 1.00

^{* =} Plane-wave equivalent power density

3G (FCC ID: XPYTOBYL201)

Maximum peak output power at antenna input terminal (dBm): 24.5

Maximum peak output power at antenna input terminal (mW): 281.84

Prediction distance (cm): 20

Predication frequency (MHz): 836

Maximum Antenna Gain, typical (dBi): 3.03

Maximum Antenna Gain (numeric): 2.009

Power density of prediction frequency at prediction distance (mW/cm²): 0.1126

limit (mW/cm^2): 0.557

Wi-Fi (FCC ID: XF6-RS9113DB)

Maximum peak output power at antenna input terminal (dBm): 17.85

Maximum peak output power at antenna input terminal (mW): 60.95

Prediction distance (cm): 20

Predication frequency (MHz): 2442

Maximum Antenna Gain, typical (dBi): 2.00

Maximum Antenna Gain (numeric): 1.585

Power density of prediction frequency at prediction distance (mW/cm²): 0.0192

limit (mW/cm^2) : 1.00

Bluetooth (FCC ID: XF6-RS9113DB)

Maximum peak output power at antenna input terminal (dBm): 17.15

Maximum peak output power at antenna input terminal (mW): 51.88

Prediction distance (cm): 20

Predication frequency (MHz): 2440

Maximum Antenna Gain, typical (dBi): 2.00

Maximum Antenna Gain (numeric): 1.585

Power density of prediction frequency at prediction distance (mW/cm²): 0.0164

limit (mW/cm²): 1.00

The sum of the ratio of MPE values at 20 cm to their respective limits is 0.393.

Results

For the different combination of transmitters, a separation distance of 20 cm complies with the MPE simultaneous transmission limit of ≤ 1.0 .

5 FCC §2.1053, ASTM E2213-03 §8.9.2- Spurious Radiated Emissions

5.1 Applicable Standards

According to ASTM EN2213-03 §8.9.2.2, the transmitted spectral mask for class A, B, C, and D devices are shown in Figs. 12-15. In addition, all DSRC site installations shall limit the EIRP in the transmitted spectrum to – 25 dBm or less in the 100 kHz at the channel edges and the band edges. Additional filtering that supplements the filtering provided by the transmitter may be needed for some antenna/transmitter combinations.

5.2 Test Setup

The radiated emissions tests were performed in the 5-meter Chamber, using the setup in accordance with TIA-603-D and ASTM EN2213-03.

The spacing between the peripherals were 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

5.3 Test Procedure

Section 2.2.12 of TIA 603-D

5.4 Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Interval |
|--------------------|-----------------------------------|---------------|--------------------------|------------------------|-------------------------|
| Agilent | Analyzer, Spectrum | E4440A | US45303156 | 2017-02-24 | 1 year |
| Sunol Science Corp | System Controller | SC99V | 011003-1 | N/R | N/R |
| Sunol Sciences | Antenna, Biconi-Log | JB1 | A013105-3 | 2015-07-11 | 28 months |
| Agilent | Pre-Amplifier | 8447D | 2944A06639 | 2017-06-15 | 1 year |
| Agilent | Pre-Amplifier | 8449B | 3147A00400 | 2016-10-06 | 13 months |
| Sunol Sciences | Antenna, Horn | DRH-118 | A052704 | 2017-03-27 | 2 years |
| A.R.A. | Antenna, Horn | DRG-118/A | 1132 | 2015-09-21 | 26 months |
| Wisewave | Antenna, Horn | ARH-2823-02 | 10555-01 | 09/01/2015 | 28 months |
| Wisewave | Antenna, Horn | ARH-4223-02 | 10555-01 | 10/22/2015 | 25 months |
| COM-POWER | Antenna, Dipole | AD-100 | 721033DB1/2/ 3/4 | 2017-02-13 | 2 year |
| Rohde & Schwarz | Generator, Signal | SMIQ03 | 849192/0085 | 2016-07-29 | 2 years |
| IW | AOBOR Hi frequency Co AX Cable | DC 1531 | KPS- 1501A3960K PS | 2017-08-05 | 1 year |
| Vasona | Test software | V6.0 build 11 | 10400213 | N/R | N/R |
| - | SMA cable | - | C00011 | Each time ¹ | N/A |
| - | N-Type Cable | - | C00012 | Each time ¹ | N/A |
| - | N-Type Cable | - | C00014 | Each time ¹ | N/A |

Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with A2LA Policy P102 (dated 09 June 2016) "A2LA Policy on Metrological Traceability".

5.5 Test Environmental Conditions

| Temperature: | 23° C | |
|--------------------|------------|--|
| Relative Humidity: | 42 % | |
| ATM Pressure: | 101.31 kPa | |

The testing was performed by Vincent Licata on 2017-11-03 in 5 chamber 3.

5.6 Radiated Emissions Test Results

30 MHz-40 GHz co-location worst case configuration

| | | | Test Aı | ntenna | | Substit | tution | | | F | CC |
|----------------|------------------------|-------------------------------|-------------|----------------|----------------|------------------------|-------------------------|-----------------------|----------------------------|-------------|----------------|
| Freq. (MHz) | S.A. Amp. (dBµV) | Table Azimuth (Degrees) | Height (cm) | Polar (H/V) | Freq. (MHz) | S.G. Level (dBm) | Antenna Gain (dB) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
| 34.61 | 38.35 | 124 | 115 | V | 34.61 | -69.15 | 0 | 0.27 | -69.42 | -25 | -44.42 |
| 39.98 | 49.07 | 320 | 99 | V | 39.98 | -58.43 | 0 | 0.27 | -58.7 | -25 | -33.7 |
| 141.21 | 45.84 | 258 | 100 | V | 141.21 | -57.56 | 0 | 0.52 | -58.08 | -25 | -33.08 |
| 250.02 | 51.95 | 171 | 269 | Н | 250.02 | -50.95 | 0 | 0.63 | -51.58 | -25 | -26.58 |
| 1600 | 67.67 | 131 | 100 | V | 1600 | -44.47 | 9.068 | 1.053 | -36.455 | -25 | -11.455 |
| 1372 | 55.42 | 196 | 100 | V | 1372 | -56.69 | 7.956 | 1.02 | -49.754 | -25 | -24.754 |

6 Exhibit A - FCC Equipment Labeling Requirements

6.1 FCC ID Label Requirements

As per FCC §2.925,

(a) Each equipment covered in an application for equipment authorization shall bear a nameplate or label listing the following:

(1) FCC Identifier consisting of the two elements in the exact order specified in §2.926. The FCC Identifier shall be preceded by the term FCC ID in capital letters on a single line, and shall be of a type size large enough to be legible without the aid of magnification.

Example: FCC ID: XXX123

Where: XXX—Grantee Code, 123—Equipment Product Code

As per FCC §15.19,

- (a) In addition to the requirements in part 2 of this chapter, a device subject to certification, or verification shall be labeled as follows:
- (3) All other devices shall bear the following statement in a conspicuous location on the device: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- (4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified above is required to be affixed only to the main control unit. If the EUT is integrated within another device then a label affixed to the host shall also state, "Contains FCC ID: XXXXXX"
- (5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

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6.2 FCC ID Label Contents and Location

MK5 RSU CWP-RSU-MK05-WW00101

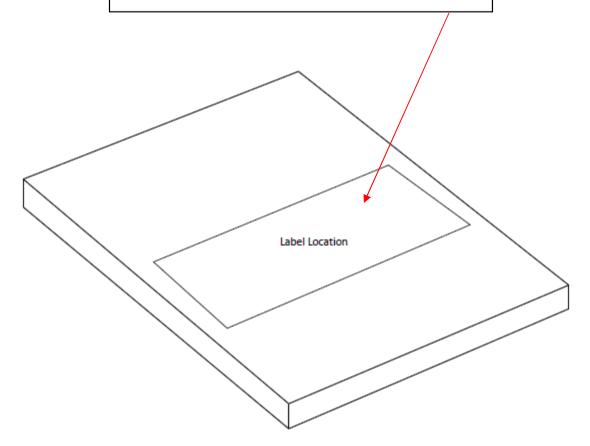
04E548 013 XXX



FCC ID: 2AEGPMK5RSU
Device tested per FCC Part 90
requirements.

Rev 1.00 DC YYWW





| Cohda Wireless Pty Ltd | FCC ID: 2AEGPMK5RS |
|--|--------------------|
| 7 Appendix | |
| Please see attachments: Exhibit B – EUT photos | |
| Exhibit B – EUT photos | |
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8 Annex A (Informative) - A2LA Electrical Testing Certificate



Accredited Laboratory

A2LA has accredited

BAY AREA COMPLIANCE LABORATORIES CORP.

Sunnyvale, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005

General requirements for the competence of testing and calibration laboratories. This laboratory also meets the requirements of A2LA R222 - Specific Requirements - EPA ENERGY STAR Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 30th day of August 2016.

Senior Director of Quality & Communications For the Accreditation Council Certificate Number 3297.02 Valid to September 30, 2018

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

---END OF REPORT ---