RF TEST REPORT



Report No.: FCC_IC_RF_SL18071803-SEV-034A3_RFID

Supersede Report No.: NONE

| Applicant | | ChargePoint, Inc. | | |
|--|-----|---|--|--|
| Product Name | | RFID Module | | |
| Model No. | | UICFG | | |
| Test Standard | • • | FCC 15.225 RSS-210 Issue 9 Aug 2016 | | |
| Test Method | ; | ANSI C63.10 2013 RSS-Gen Issue 5, Apr 2018 | | |
| FCC ID | | W38-UICFG | | |
| IC ID | | 8854A-UICFG | | |
| Dates of test | | 01/02/2019 – 01/11/2019 | | |
| Issue Date | ٠, | 01/11/2019 | | |
| Test Result | | □ Pass □ Fail | | |
| Equipment complied with the specification [X] Equipment did not comply with the specification [] | | | | |

| This Test Report is Issued Under the Authority of: | | |
|---|-------------------------------|--|
| Gary Chou | Clan Ge | |
| Gary Chou | Chen Ge | |
| Test Engineer | Engineer Reviewer | |
| This test report m | ay be reproduced in full only | |
| Test result presented in this test report is applicable to the tested sample only | | |

Issued By:
SIEMIC Laboratories
775 Montague Expressway, Milpitas, CA 95035



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Laboratory Introduction

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Accreditations for Conformity Assessment

| Country/Region | Accreditation Body | Scope | |
|----------------|------------------------|-----------------------------------|--|
| USA | FCC, A2LA | EMC, RF/Wireless, Telecom | |
| Canada | IC, A2LA, NIST | EMC, RF/Wireless, Telecom | |
| Taiwan | BSMI, NCC, NIST | EMC, RF, Telecom, Safety | |
| Hong Kong | OFTA, NIST | RF/Wireless, Telecom | |
| Australia | NATA, NIST | EMC, RF, Telecom, Safety | |
| Korea | KCC/RRA, NIST | EMI, EMS, RF, Telecom, Safety | |
| Japan | VCCI, JATE, TELEC, RFT | EMI, RF/Wireless, Telecom | |
| Mexico | NOM, COFETEL, Caniety | EMC, RF/Wireless, Telecom, Safety | |
| Europe | A2LA, NIST | EMC, RF, Telecom, Safety | |
| Israel | MOC, NIST | EMC, RF, Telecom, Safety | |

Accreditations for Product Certifications

| Country | Accreditation Body | Scope |
|-----------|--------------------|-----------------------|
| USA | FCC TCB, NIST | EMC, RF, Telecom |
| Canada | IC FCB, NIST | EMC, RF, Telecom |
| Singapore | iDA, NIST | EMC, RF, Telecom |
| EU | NB | EMC & R&TTE Directive |
| Japan | MIC (RCB 208) | RF, Telecom |
| Hong Kong | OFTA (US002) | RF, Telecom |

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Report Revision History

| Report No. | Report Version | Description | Issue Date |
|-------------------------------------|----------------|-------------|------------|
| FCC_IC_RF_SL18071803-SEV-034A3_RFID | - | Original | 01/11/2019 |
| | | | |





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2 **Executive Summary**

The purpose of this test program was to demonstrate compliance of following product

Company:ChargePoint, Inc.Product:RFID ModuleModel:UICFG

against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1st page.

3 Customer information

| Applicant Name : | | ChargePoint, Inc. |
|----------------------|---|--|
| Applicant Address | : | 254 E. Hacienda Ave , Campbell, CA 95008 |
| Manufacturer Name | : | ChargePoint, Inc. |
| Manufacturer Address | : | 254 E. Hacienda Ave, Campbell, CA 95008 |

4 Test site information

| Lab performing tests | : | SIEMIC Laboratories |
|----------------------|---|---|
| Lab Address | | 775 Montague Expressway, Milpitas, CA 95035 |
| FCC Test Site No. | : | 540430 |
| IC Test Site No. | : | 4842D-2 |
| VCCI Test Site No. | : | A0133 |

5 **Modification**

| Index | Item | Description | Note |
|-------|------|-------------|------|
| - | - | - | - |

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EUT Information

EUT Description <u>6.1</u>

| Product Name | : | RFID Module |
|-------------------------------|---|------------------|
| Model No. | : | UICFG |
| Trade Name | : | ChargePoint |
| Serial No. | : | 275180901741 |
| Input Power | : | 5V _{DC} |
| Support Equipment Input Power | | 120Vac/ 60Hz |
| Product Hardware version | : | N/A |
| Product Software version | : | N/A |
| Date of EUT received | : | 12/08/2018 |
| Equipment Class/ Category | : | 13.56MHz |
| Port/Connectors | : | N/A |

<u>6.2</u> **Radio Description**

Specifications for Radio:

| Radio Type | RFID |
|------------------------|----------------|
| Operating Frequency | 13.56MHz |
| Modulation | ASK (13.56MHz) |
| Channel Spacing | None |
| Antenna Type | PCB Antenna |
| Antenna Gain | 0dBi |
| Antenna Connector Type | N/A |

Channel List:

| Туре | Mode | Channel No. | Frequency (MHz) | Available (Y/N) |
|------|----------|-------------|-----------------|-----------------|
| RFID | 13.56MHz | 1 | 13.56 | Υ |

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EUT test modes/configuration Description <u>6.3</u>

| Mode | Note |
|------------|--|
| RF test | EUT is set to continuously transmit at 13.56MHz. |
| Note: None | |

| Test Item | Operating mode | Tested antenna port | Test frequencies |
|-----------------------------|---------------------|---------------------|------------------|
| Antenna Requirement | N/A | - | |
| Conducted Emissions Voltage | Continuous Transmit | - | |
| Radiated Measurements | Continuous Transmit | - | 13.56MHz |
| Frequency Stability | Continuous Transmit | - | |
| Occupied Bandwidth | Continuous Transmit | - | |

Note: EUT uses a PCB trace antenna attached to the PCB board.





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7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

| Index | Supporting Equipment Description | Model | Serial No | Manu | Note |
|-------|----------------------------------|---------------|-------------|--------|------|
| 1 | LAPTOP | Latitude 3550 | 13771498322 | DELL | - |
| 2 | ADAPTOR | ALA90PM111 | Y4M8K | LITEON | - |

7.2 Test Software Description

| Test Item | Software | Description | |
|------------|----------|---|--|
| RF Testing | N/A | The EUT continuously transmit itself when powered on. | |
| | | | |

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Test Summary

| Test Item | Test standard | | Test Method/Procedure | Pass / Fail |
|--------------------------------|--|---------------|--------------------------------------|-------------|
| Antenna Requirement | FCC | 15.203 | ANSI C63.10 – 2013 | ⊠ Pass |
| 7 thomas requirement | IC | | 558074 D01 DTS Meas. Guidance v03r02 | □ N/A |
| 400 L L L T : : | FCC | 15.225(a) | ANOLOGO 40 0040 | ⊠ Pass |
| AC Conducted Emissions Voltage | IC | RSS Gen (8.8) | ANSI C63.10 2013 RSS Gen (8.8) | □ N/A |
| Remark | AC Line tests were performed on the support equipment's power adapter, laptop. | | | ptop. |

| Test Item | | Test standard | | Test Method/Procedure | Pass / Fail |
|----------------------------|----------------|---|-------------------------|---|-----------------|
| | FCC | 15.225(a)(b)(c) | FCC | ANSI C63.10 2013 | ⊠ Pass |
| | IC | RSS-210(B6) | IC | RSS Gen 6.13 | □ N/A |
| | FCC | 15.225(b) | FCC | ANSI C63.10 2013 | ⊠ Pass |
| Radiated Measurements | IC | RSS-210(B6) | IC | RSS Gen 6.13 | □ N/A |
| Radiated Measurements | FCC | 15.225(c) | FCC | ANSI C63.10 2013 | ⊠ Pass |
| | IC | RSS-210(B6) | IC | RSS Gen 6.13 | □ N/A |
| | FCC | 15.225(d), 15.209 | FCC | ANSI C63.10 2013 | ⊠ Pass |
| | IC | RSS-210(B6) | IC | RSS Gen 6.13 | □ N/A |
| Receiver Spurious Emission | IC | - | IC | RSS Gen 7.1 | ☐ Pass ☒ N/A |
| For any on Otal illit | FCC | 15.225(e) | FCC | - | □ Pass |
| Frequency Stability | IC | RSS-210(B6) | IC | RSS Gen 6.11 | □ N/A |
| Occurried Dandwidth | FCC | - | FCC | - | □ Pass |
| Occupied Bandwidth | IC | RSS-210(B6) | IC | RSS Gen 6.6 | □ N/A |
| Remark | 2. 3. 4. | The applicant shall ens within the band of oper manual. | sure frequ ation und | re not taken into consideration for all prese ency stability by showing that an emission er all normal operating conditions as speci 3 / RSS-Gen Issue 5, Apr 2018 | is maintained |

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9 Measurement Uncertainty

9.1 Conducted Emissions

The test is to measure the conducted emissions to the mains port of the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the LISN
- Uncertainty of cables
- Uncertainty due to the mismatches
- Etc, see the below table for details

| Source of Uncertainty | Value | Probability | Division | Sensitivity | Expanded |
|-------------------------------|-----------------|--------------|----------|-------------|-------------|
| | (dB) | Distribution | | Coefficient | Uncertainty |
| Receiver Reading | 0.12 | Rectangular | 1.732 | 1 | 0.069284 |
| Cable Insertion Loss | 0.21 | Normal | 2 | 1 | 0.105 |
| Filter Insertion Loss | 0.25 | Normal | 2 | 1 | 0.125 |
| LISN Insertion Loss | 0.40 | Normal | 2 | 1 | 0.20 |
| Receiver CW accuracy | 0.5 | Rectangular | 1.732 | 1 | 0.2886836 |
| Pulse Amplitude | 1.5 | Rectangular | 1.732 | 1 | 0.86605081 |
| Response | | | | | |
| PRF Response | 1.5 | Rectangular | 1.732 | 1 | 0.86605081 |
| Mismatch LISN - | 0.25 | U-Shape | 1.414 | 1 | 0.1768033 |
| Receiver | | | | | |
| LISN Impedance | 2.5 | Triangular | 2.449 | 1 | 1.0208248 |
| Combined Standard Uncertainty | | | | | 1.928133 |
| Expanded Uncertainty (| <=2) | | | | 3.856266 |

The total derived measurement uncertainty is +/- 3.86 dB.

9.2 Radiated Emissions (30MHz to 1GHz)

The test is to measure the radiated emissions of the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- NSA Calibration
- Etc., details see the below table

| Source of Uncertainty Value (dB) Filter Insertion Loss Distribution Division Coefficient Coefficient Uncerta Receiver Reading 0.12 Rectangular 1.732 1 0.0692 Cable Insertion Loss 0.21 Normal 2 1 0.105 Filter Insertion Loss 0.25 Normal 2 1 0.125 Antenna Factor 0.65 Normal 2 1 0.325 Receiver CW accuracy 0.5 Rectangular 1.732 1 0.28868 | ed |
|--|--|
| Cable Insertion Loss 0.21 Normal 2 1 0.105 Filter Insertion Loss 0.25 Normal 2 1 0.125 Antenna Factor 0.65 Normal 2 1 0.325 | nty |
| Filter Insertion Loss 0.25 Normal 2 1 0.125 Antenna Factor 0.65 Normal 2 1 0.325 | 84 |
| Antenna Factor 0.65 Normal 2 1 0.325 | <u>, </u> |
| 7 11.0011101 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | <u>, </u> |
| Receiver CW accuracy 0.5 Rectangular 1.732 1 0.28868 | <u>, </u> |
| 1 total galar 1 1 5.2000 | 36 |
| Pulse Amplitude Response 1.5 Rectangular 1.732 1 0.86605 | 081 |
| PRF Response 1.5 Rectangular 1.732 1 0.86605 | 081 |
| Mismatch Filter - Receiver 0.25 U-Shape 1.414 1 0.17680 | 33 |
| NSA Calibration 4.0 U-Shape 1.414 1 2.82885 | 643 |
| Combined Standard Uncertainty 3.0059 | 31 |
| Expanded Uncertainty (K=2) 6.01182 | 262 |

The total derived measurement uncertainty is +/- 6.00 dB.

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9.3 Radiated Emissions (1GHz to 40GHz)

The test is to measure the radiated emissions of the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- VSWR Calibration
- Etc., details see the below table

| Course of Uncertainty | Value | Probability | Division | Sensitivity | Expanded |
|-----------------------------|--------|--------------|----------|-------------|-------------|
| Source of Uncertainty | (dB) | Distribution | DIVISION | Coefficient | Uncertainty |
| Receiver Reading | 0.12 | Rectangular | 1.732 | 1 | 0.0692840 |
| Cable Insertion Loss | 0.21 | Normal | 2 | 1 | 0.1050000 |
| Filter Insertion Loss | 0.25 | Normal | 2 | 1 | 0.1250000 |
| Antenna Factor | 0.65 | Normal | 2 | 1 | 0.3250000 |
| Receiver CW accuracy | 0.5 | Rectangular | 1.732 | 1 | 0.2886836 |
| Pulse Amplitude Response | 1.5 | Rectangular | 1.732 | 1 | 0.8660508 |
| PRF Response | 1.5 | Rectangular | 1.732 | 1 | 0.8660508 |
| Mismatch Filter - Receiver | 0.25 | U-Shape | 1.414 | 1 | 0.1768033 |
| VSWR Calibration | 2.0 | U-Shape | 1.414 | 1 | 1.4144272 |
| Combined Standard Uncertain | 4.2363 | | | | |
| Expanded Uncertainty (K=2 | 8.4726 | | | | |

The total derived measurement uncertainty is +/- 8.47 dB.

9.4 RF conducted measurement

The test is to measure the RF output power from the EUT. Some error sources that can contribute to the total uncertainty:

- Uncertainty of the Reference Level Uncertainty
- Uncertainty of variable attenuators
- Uncertainty of cables
- Uncertainty due to the mismatches

| | Value | Probability | Division | Sensitivity | Expanded |
|-------------------------------|-------|--------------|----------|-------------|-------------|
| Source of Uncertainty | (dB) | Distribution | | Coefficient | Uncertainty |
| Reference Level | 0.12 | Rectangular | 1.732 | 1 | 0.069284 |
| Cable Insertion Loss | 0.21 | Normal | 2 | 1 | 0.105 |
| Attenuator | 0.25 | Normal | 2 | 1 | 0.125 |
| Mismatch | 0.25 | U-Shape | 1.414 | 1 | 0.1768033 |
| Combined Standard Uncertainty | | | | | 0.476087 |
| Expanded Uncertainty (K=2) | | | | | 0.952174 |

The total derived measurement uncertainty is +/- 0.95 dB.

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10 Measurements, examination and derived results

10.1 Antenna Requirement

| Spec | Requirement | Applicable | |
|---------|---|------------|--|
| §15.203 | An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. Antenna requirement must meet at least one of the following: a) Antenna must be permanently attached to the device. b) The antenna must use a unique type of connector to attach to the device. c) Device must be professionally installed. The installer shall be responsible for ensuring that the correct antenna is employed by the device. | | |
| Remark | The RFID antenna is integral to the PCB board permanently to the device which meets the requirement (See Internal Photographs submitted as another Exhibit). | | |
| Result | ⊠ PASS ☐ FAIL | | |

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10.2 Conducted Emissions Test Result

Conducted Emission Limit

| Section Frequency ranges | | Frequency ranges Limit (dBuV) | |
|--------------------------|------------|-------------------------------|---------|
| Section | (MHz) | QP | Average |
| Class P | 0.15 ~ 0.5 | 66 – 56 | 56 – 46 |
| Class B devices | 0.5 ~ 5 | 56 | 46 |
| devices | 5 ~ 30 | 60 | 50 |

| Spec | Item | Requirement | | | Applicable | | | | |
|---------------------------|-------------|---|---|--|---------------------------|--|--|--|--|
| § 15.207, RSS210(A8.1) | a) | For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits set in § 15.207, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). AC Line conducted emission within the band 150kHz to 30MHz | | | | | | | |
| Test Setup | | Note: 1. Sup 2. Boti | | | | | | | |
| Procedure | - - - | top of a 1.5m x 1m The power supply The RF OUT of the | porting equipment were set up in accordant x 0.8m high, non-metallic table, as shown for the EUT was fed through a $50\Omega/50\mu$ de EUT LISN was connected to the EMI teg equipment was powered separately fro | vn in Annex B. H EUT LISN, connected to fi est receiver via a low-loss coa | Itered mains. | | | | |
| Test Date | 01/09/2 | 2019 | Environmental conditions | Temperature Relative Humidity Atmospheric Pressure | 21°C 38 % 1025 mbar | | | | |
| Remark | | | | | | | | | |
| Result | ⊠ Pas | s 🗆 Fail | | | | | | | |
| Test Data ⊠ Yo | es | □ N/A | | | | | | | |
| Test Plot ⊠ Ye | es | □ N/A | | | | | | | |

Test was done by Gary Chou at Conducted Emission test site.

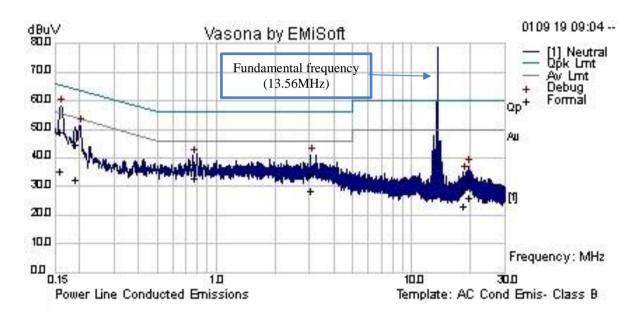
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Conducted Emission Test Results

| Test specification: | Conducted Emissions | | | | |
|---------------------------|---------------------|------------|---------|--------|--|
| | Temp(°C): | 21 | | | |
| Environmental Conditions: | Humidity (%): | 42 | | ⊠ Doos | |
| | Atmospheric(mbar): | 1021 | Dogultu | ⊠ Pass | |
| Mains Power: | 120VAC, 60Hz | | Result: | □ Fa:I | |
| Tested by: | Gary Chou | | | ☐ Fail | |
| Test Date: | 01/09/2019 | 01/09/2019 | | | |
| Remarks | Neutral | | | | |



Neutral Measurements

| Frequency MHz | Raw dBuV | Cable Loss | Factors dB | Level dBuV | Measurement Type | Line/ Neutral | Limit dBuV | Margin dB | Pass /Fail |
|------------------|-------------|---------------|---------------|---------------|---------------------|------------------|---------------|--------------|------------|
| 0.16 | 37.18 | 10.00 | 1.65 | 48.84 | Quasi Peak | Neutral | 65.63 | -16.79 | Pass |
| 0.19 | 33.14 | 10.00 | 1.35 | 44.48 | Quasi Peak | Neutral | 64.13 | -19.65 | Pass |
| 3.04 | 23.66 | 10.03 | 0.50 | 34.19 | Quasi Peak | Neutral | 56.00 | -21.81 | Pass |
| 0.76 | 27.26 | 10.01 | 0.55 | 37.83 | Quasi Peak | Neutral | 56.00 | -18.17 | Pass |
| 19.60 | 21.09 | 10.07 | 0.65 | 31.81 | Quasi Peak | Neutral | 60.00 | -28.19 | Pass |
| 18.39 | 18.09 | 10.07 | 0.63 | 28.78 | Quasi Peak | Neutral | 60.00 | -31.22 | Pass |
| 0.16 | 23.43 | 10.00 | 1.65 | 35.08 | Average | Neutral | 55.63 | -20.54 | Pass |
| 0.19 | 20.94 | 10.00 | 1.35 | 32.29 | Average | Neutral | 54.13 | -21.84 | Pass |
| 3.04 | 17.73 | 10.03 | 0.50 | 28.26 | Average | Neutral | 46.00 | -17.74 | Pass |
| 0.76 | 22.30 | 10.01 | 0.55 | 32.87 | Average | Neutral | 46.00 | -13.13 | Pass |
| 19.60 | 15.45 | 10.07 | 0.65 | 26.18 | Average | Neutral | 50.00 | -23.82 | Pass |
| 18.39 | 12.42 | 10.07 | 0.63 | 23.12 | Average | Neutral | 50.00 | -26.88 | Pass |

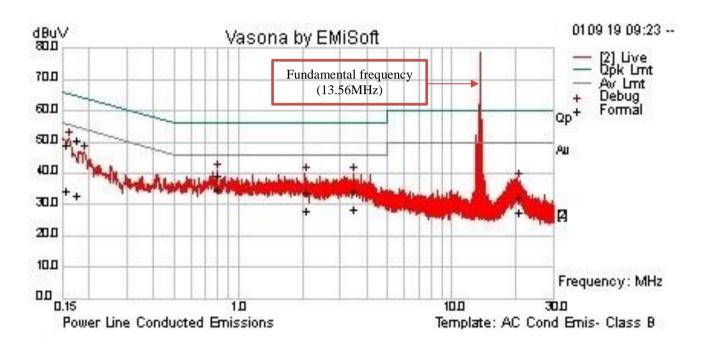
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| Test specification: | Conducted Emissions | | | | |
|---------------------------|---------------------|------|---------|--------|--|
| | Temp(°C): | 21 | | | |
| Environmental Conditions: | Humidity (%): | 42 | | ∇ Deee | |
| | Atmospheric(mbar): | 1021 | Desulti | ⊠ Pass | |
| Mains Power: | 120VAC, 60Hz | | Result: | | |
| Tested by: | Gary Chou | | | ☐ Fail | |
| Test Date: | 01/09/2019 | | | | |
| Remarks | Line | · | • | • | |



Line Measurements

| Frequency MHz | Raw dBµV | Cable Loss | Factors dB | Level dBµV | Measurement Type | Line/ Neutral | Limit dBµV | Margin dB | Pass /Fail |
|------------------|-------------|---------------|---------------|---------------|---------------------|------------------|---------------|--------------|------------|
| 0.15 | 37.15 | 10.00 | 1.69 | 48.84 | Quasi Peak | Live | 65.78 | -16.93 | Pass |
| 0.80 | 28.90 | 10.01 | 0.55 | 39.46 | Quasi Peak | Live | 56.00 | -16.54 | Pass |
| 2.07 | 23.28 | 10.02 | 0.50 | 33.80 | Quasi Peak | Live | 56.00 | -22.20 | Pass |
| 3.44 | 23.72 | 10.03 | 0.50 | 34.25 | Quasi Peak | Live | 56.00 | -21.75 | Pass |
| 0.17 | 38.87 | 10.00 | 1.47 | 50.34 | Quasi Peak | Live | 64.78 | -14.44 | Pass |
| 20.39 | 21.78 | 10.07 | 0.67 | 32.52 | Quasi Peak | Live | 60.00 | -27.48 | Pass |
| 0.15 | 22.74 | 10.00 | 1.69 | 34.43 | Average | Live | 55.78 | -21.34 | Pass |
| 0.80 | 24.17 | 10.01 | 0.55 | 34.73 | Average | Live | 46.00 | -11.27 | Pass |
| 2.07 | 17.58 | 10.02 | 0.50 | 28.10 | Average | Live | 46.00 | -17.90 | Pass |
| 3.44 | 17.89 | 10.03 | 0.50 | 28.42 | Average | Live | 46.00 | -17.58 | Pass |
| 0.17 | 21.58 | 10.00 | 1.47 | 33.05 | Average | Live | 54.78 | -21.73 | Pass |
| 20.39 | 16.93 | 10.07 | 0.67 | 27.67 | Average | Live | 50.00 | -22.33 | Pass |

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10.3 Radiated Measurements

10.3.1 Radiated Measurements 30MHz to 1GHz

Requirement(s):

| Spec | Requirement | | | Applicable | | | | | |
|--------------------------------|--|--|--|---------------------------|--|--|--|--|--|
| 47 CFR §15.225 RSS-210 (B6) | (a) The field strength of any emnot exceed 15,8 (b) Within the bands 13.410—strength of any emissions shal (c) Within the bands 13.110—strength of any emissions shal (d) The field strength of any emmoderate and shall not exceed the | 48 microvolts/meter at 30 meter 13.553 MHz and 13.567–13.7 Inot exceed 334 microvolts/mid 13.410 MHz and 13.710–14.0 Inot exceed 106 microvolts/missions appearing outside of the general radiated emission lines. | -13.567 MHz shall ers. 10 MHz, the field eter at 30 meters. 10 MHz the field eter at 30 meters. he 13.110–14.010 mits in §15.209. | \boxtimes | | | | | |
| | Frequency range (MHz | | ngth (uV/m) | | | | | | |
| | 88 – 216 | | 50 | | | | | | |
| | 216 960 | | 00 | | | | | | |
| | Above 960 | | 00 | | | | | | |
| Test Setup | Radio Absorbing Material | 3m Antenna Ground Plane | Spectrum Analyzer | | | | | | |
| Procedure | The test was carried out at the Maximization of the emission polarization, and adjusting the analysis of the EUT was the control of the EUT was the | The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antenna height was adjusted to the height that gave the maximum emission. A Quasi-peak measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were | | | | | | | |
| Test Date | 01/08/2019 | Environmental conditions | Temperature Relative Humidity Atmospheric Pressure | 20.1°C 36% 1026mbar | | | | | |
| Remark | - | | | | | | | | |
| Result | ⊠ Pass □ Fail | | | | | | | | |
| est Data ⊠ Yes | See below) N/A | | | | | | | | |
| est Plot 🗵 Yes | See below) | | | | | | | | |

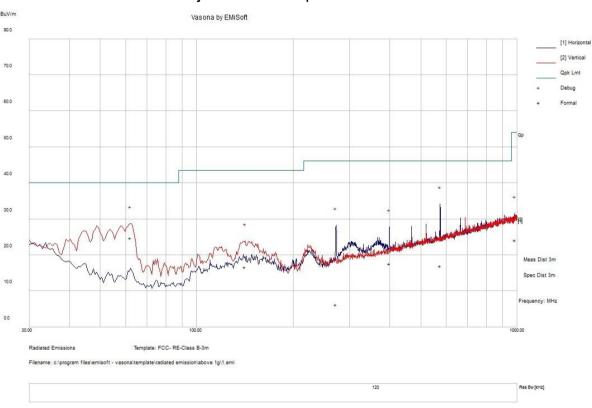
Test was done by Gary Chou at 10 meter chamber.



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| Test specification: | Radiated Emissions | Radiated Emissions | | | | | |
|---------------------|--------------------|--------------------|---------|---|--|--|--|
| Mains Power: | 120V AC/ 60Hz | | | | | | |
| Tested by: | Gary Chou | | Result: | ☑ Pass☐ Fail | | | |
| Test Date: | 01/08/2019 | | | □ Fall | | | |
| Remarks: | N/A | • | 1 | • | | | |

f=30MHz - 1000MHz plot and 3 meter distance



f=30MHz - 1000MHz Measurements

| Frequency MHz | Raw dBµV/m | Cable Loss | AF dB | Level dBµV/m | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBµV/m | Margin dB | Pass /Fail |
|------------------|---------------|---------------|----------|-----------------|---------------------|-----|-----------|------------|-----------------|--------------|---------------|
| 61.981875 | 40.56 | 11.52 | -27.32 | 24.76 | Quasi Max | V | 130 | 262 | 40 | -15.24 | Pass |
| 574.45125 | 20 | 14.58 | -17.54 | 17.04 | Quasi Max | Н | 202 | 263 | 46 | -28.96 | Pass |
| 272.003438 | 16.2 | 13.11 | -22.93 | 6.38 | Quasi Max | Н | 108 | 85 | 46 | -39.62 | Pass |
| 398.676875 | 24.01 | 13.72 | -20.17 | 17.56 | Quasi Max | Н | 117 | 346 | 46 | -28.44 | Pass |
| 141.502813 | 27.87 | 12.2 | -23.38 | 16.69 | Quasi Max | V | 100 | 63 | 43.5 | -26.81 | Pass |
| 982.252188 | 19.82 | 16.01 | -11.61 | 24.22 | Quasi Max | Н | 286 | 117 | 54 | -29.78 | Pass |

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10.3.2 Radiated Measurements below 30MHz

Requirement(s):

| Spec | Requirement | | | Applicable |
|--------------------------------|--|--|--|-------------------------|
| 47 CFR §15.225 RSS-210 (B6) | Operation within the band 13.110–1 (a) The field strength of any emissic exceed 15,848 microvolts/meter at 3 (b) Within the bands 13.410–13.553 any emissions shall not exceed 334 (c) Within the bands 13.110–13.410 emissions shall not exceed 106 mic (d) The field strength of any emission shall not exceed the general radiate | ons within the band 13.553–13.30 meters. B MHz and 13.567–13.710 MHz microvolts/meter at 30 meters. MHz and 13.710–14.010 MHz rovolts/meter at 30 meters. In appearing outside of the 13.00 meters. | t, the field strength of the field strength of any | \boxtimes |
| Test Setup | | 3 m | p antenna m height | |
| Procedure | For < 30MHz, Radiated emissions vat the highest output power. The EUT was set 3 meter away fror above the ground from the center of the limit is converted from microvol | n the measuring antenna. The fthe loop. The measuring band | loop antenna was position width was set to 10 kHz. | |
| Test Date | 01/07/2019 | Environmental conditions | Temperature Relative Humidity Atmospheric Pressure | 22°C 40% 1026mbar |
| Remark | - | | | |
| Result | ⊠ Pass ☐ Fail | | | |

Test Data ⊠ Yes (See below) □ N/A

Test Plot ⊠ Yes (See below) □ N/A

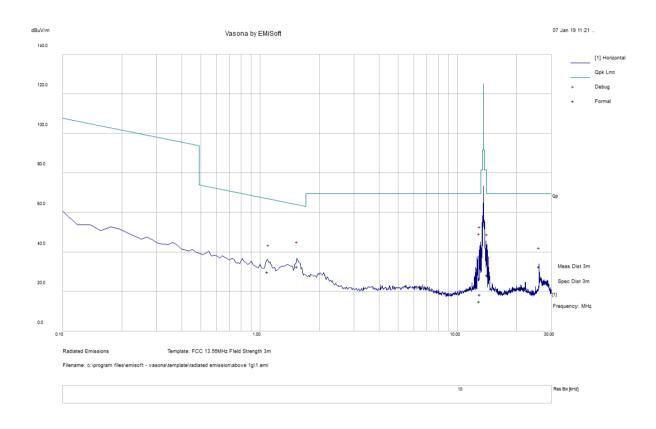
Test was done by Gary Chou at 10 meter chamber.

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| Test specification: | Radiated Spurious Emissions | | | |
|---------------------|----------------------------------|---------------------|---------|---------------|
| Mains Power: | 120V AC/ 60Hz | | | |
| Tested by: | Gary Chou | | Result: | ⊠ Pass □ Fail |
| Test Date: | 01/07/2019 | | | |
| Remarks: | f= 100kHz – 30MHz plot, and loop | antenna at 0 degree |) | 1 |



Quasi Max Measurement

| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV/m | Measurement Type | Pol (0/90) | Hgt cm | Azt Deg | Limit dBuV/m | Margin dB | Pass /Fail |
|------------------|-------------|---------------|----------|-----------------|---------------------|---------------|-----------|------------|-----------------|--------------|---------------|
| 13.03679 | 16.26 | 0.83 | 1.63 | 18.73 | Quasi Max | Н | 99 | 260 | 69.54 | -50.81 | Pass |
| 1.542156 | 22.72 | 0.56 | 9.48 | 32.76 | Quasi Max | Н | 99 | 4 | 63.84 | -31.08 | Pass |
| 12.925318 | 12.61 | 0.83 | 1.65 | 15.09 | Quasi Max | Н | 99 | 273 | 69.54 | -54.45 | Pass |
| 14.199528 | 25.94 | 0.85 | 1.69 | 28.48 | Quasi Max | Н | 99 | 334 | 69.54 | -41.06 | Pass |
| 1.091175 | 17.5 | 0.52 | 12.11 | 30.14 | Quasi Max | Н | 99 | 76 | 66.85 | -36.71 | Pass |
| 26.001248 | 30.23 | 1.05 | 1.44 | 32.72 | Quasi Max | Н | 99 | 326 | 69.54 | -36.82 | Pass |

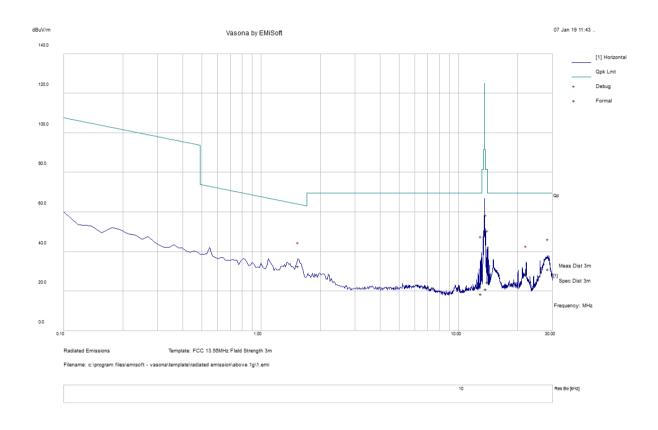
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| Test specification: | Radiated Spurious Emissions | | | |
|---------------------|------------------------------------|--------------------|---------|------------------|
| Mains Power: | 120V AC/ 60Hz | | | |
| Tested by: | Gary Chou | | Result: | ⊠ Pass □ Fail |
| Test Date: | 01/07/2019 | | | |
| Remarks: | f= 100kHz – 30MHz plot, and loop a | ntenna at 90 degre | e | 1 |



Quasi Max Measurement

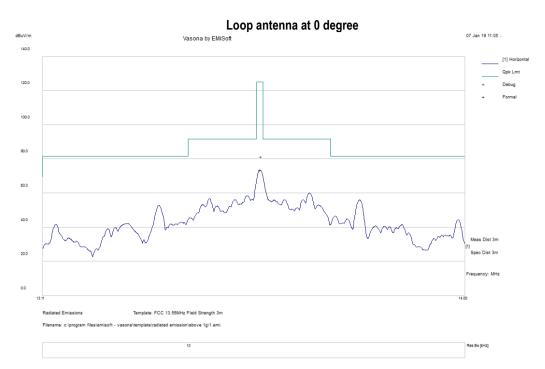
| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV/m | Measurement Type | Pol (0/90) | Hgt cm | Azt Deg | Limit dBuV/m | Margin dB | Pass /Fail |
|------------------|-------------|---------------|----------|-----------------|---------------------|---------------|-----------|------------|-----------------|--------------|---------------|
| 14.087038 | 22.08 | 0.85 | 1.68 | 24.61 | Quasi Max | Н | 99 | 27 | 69.54 | -44.93 | Pass |
| 1.542403 | 22.66 | 0.56 | 9.48 | 32.7 | Quasi Max | Н | 99 | 171 | 63.84 | -31.14 | Pass |
| 13.04975 | 16.06 | 0.83 | 1.64 | 18.53 | Quasi Max | Н | 99 | 44 | 69.54 | -51.01 | Pass |
| 13.77358 | 18.45 | 0.85 | 1.67 | 20.96 | Quasi Max | Н | 99 | 191 | 81.43 | -60.47 | Pass |
| 28.415636 | 29.56 | 1.09 | 0.51 | 31.16 | Quasi Max | Н | 99 | 15 | 69.54 | -38.38 | Pass |
| 22.048563 | 26.42 | 0.97 | 1.33 | 28.72 | Quasi Max | Н | 99 | 316 | 69.54 | -40.82 | Pass |

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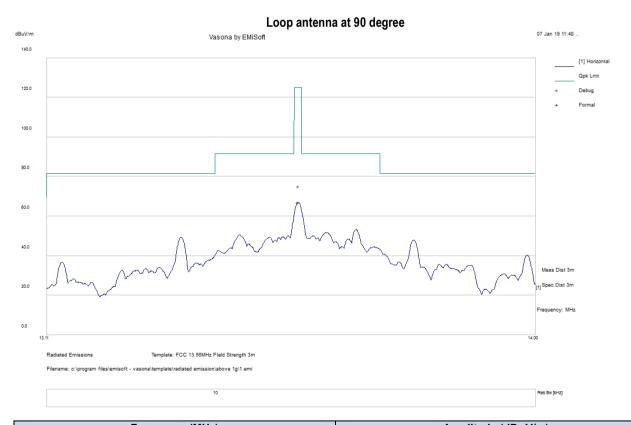




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| Frequency (MHz) | Amplitude (dBµV/m) |
|-----------------|--------------------|
| 13.56068 | 73.58 |



| Frequency (MHz) | Amplitude (dBμV/m) |
|-----------------|--------------------|
| 13.56028 | 66.93 |



| Test report | FCC_IC_RF_SL18071803-SEV-034A3_RFID |
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10.3.3 Frequency Stability

Requirement(s):

| Spec | Requirement | Applicable | | |
|-----------------------------------|--|-------------|--|--|
| 47 CFR §15.225 e) RSS-210 (B6) | Limit: ±0.01% of 13.56 MHz = 1356 | \boxtimes | | |
| Test Setup | Fast Power Meter Environmental Chamber 1. The EUT was set up inside an environmental chamber. 2. The EUT was placed in the centre of the environmental. | | | |
| Procedure | Frequency Stability was measured according to 47 CFR §2.1055. Measurement was taken with spectrum analyzer. The spectrum analyzer bandwidth and span was set to read in hertz. A voltmeter was used to monitor when varying the voltage. | | | |
| Test Date | 01/10/2019 Environmental conditions Temperature 20°C Relative Humidity 41% Atmospheric Pressure 1026mbar | | | |
| Remark | None | | | |
| Result | ⊠ Pass ☐ Fail | | | |

Test Plot ☐ Yes (See below) ☐ N/A

Test was done by Gary Chou RF test site.



| Test report | FCC_IC_RF_SL18071803-SEV-034A3_RFID |
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Test Result for 13.56MHz Radio

Frequency Stability versus Temperature: The Frequency tolerance of the carrier signal shall be maintained within \pm 0.01% of the operating frequency over a temperature variation of -20°C to +50°C at normal supply voltage.

Reference Frequency: 13.56MHz

| Temperature (°C) | Measured Freq. | Deviation (KHz) | Freq. Deviation (Limit: 0.01%) | Pass/Fail | |
|------------------|----------------|--------------------|--------------------------------|-----------|--|
| 20 | 13.56063 | N/A | <0.01 | Pass | |
| -20 | 13.56074 | 0.05 | <0.01 | Pass | |
| 50 | 13.56074 | 0.04 | <0.01 | Pass | |

Frequency Stability versus Input Voltage: The Frequency tolerance of the carrier signal shall be maintained within \pm 0.01%, the frequency of the transmitter was measured at 85% and at 115% of the rated power supply voltage at a 20°C environmental temperature.

Carrier Frequency: 13.56MHz

| Measured Voltage ±15% of nominal (AC) | Measured Freq. (MHz) | Deviation (KHz) | Freq. Deviation (Limit: 0.01%) | Pass/Fail |
|---|-------------------------|--------------------|-----------------------------------|-----------|
| 102 | 13.56068 | 0.00 | <0.01 | Pass |
| 138 | 13.56059 | 0.00 | <0.01 | Pass |





| Test report | FCC_IC_RF_SL18071803-SEV-034A3_RFID |
|-------------|-------------------------------------|
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10.3.4 Occupied bandwidth

Requirement(s):

| Spec | Requirement | | | Applicable |
|-------------|---|--|--|-------------------------|
| RSS Gen 6.6 | The transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used given that a peak or peak hold may produce a wider bandwidth than actual. The trace data points are recovered and directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth. | | | |
| Test Setup | Support Units Turn Table Ground Plane Test Receiver | | | |
| Procedure | The EUT was switched on and allowed to warm up to its normal operating condition. To measure conducted, a SMA cable was used to replace the EUT antenna. To measure radiated, an external antenna was used to detect EUT transmission signal. Measurement of the 99% Occupied Bandwidth of EUT transmission signal and make record. | | | |
| Test Date | 01/08/2019 Environmental conditions Temperature Relative Humidity Atmospheric Pressure | | | 22°C 39% 1025mbar |
| Remark | - | | | |
| Result | ⊠ Pass □ Fail | | | |

| $\boxtimes N/A$ |
|-----------------|
| |

Test Plot \square N/A

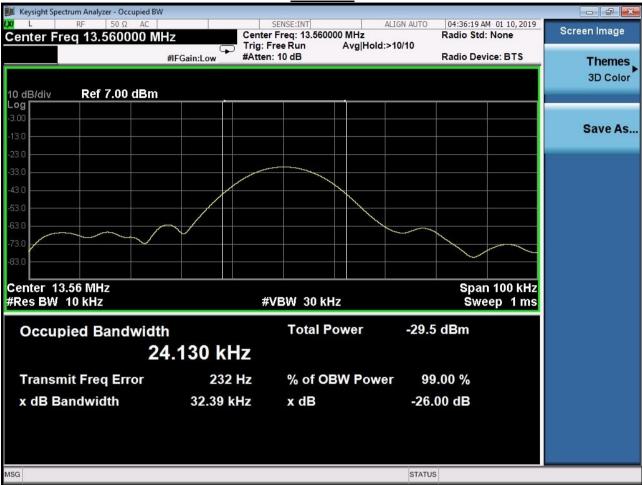
Test was done by Gary Chou at 10 meter chamber.



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Test results:





| Frequency (MHz) | Occupied Bandwidth (KHz) | |
|-----------------|--------------------------|--|
| 13.56 | 24.13 | |



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Annex A. TEST INSTRUMENT

| Instrument | Model | Serial # | Cal Date | Cal Cycle | Cal Due | In use |
|--|----------|------------|------------|-----------|------------|-------------|
| Conducted Emissions | | | | | | |
| EMI Test Receiver | ESIB 40 | 100179 | 08/29/2018 | 1 Year | 8/28/2019 | <u><</u> |
| Radiated Emissions | | | | | | |
| Keysight EXA 44 GHz Spectrum Analyzer | N9010A | MY51440112 | 11/16/2018 | 1 Year | 11/16/2019 | • |
| RF Pre-Amplifier (9kHz - 6.5GHz) | LPA-6-30 | 11170601 | 07/24/2018 | 1 Year | 07/23/2019 | > |
| ETS-Lingren Loop Antenna | 6512 | 00049120 | 07/15/2018 | 1 Year | 07/14/2019 | > |
| Broadband Hybrid Antenna (30MHz - 6GHz) | JB6 | A111717 | 03/05/2018 | 2 Year | 03/05/2020 | > |
| Horn Antenna (1-26.5GHz) | 3115 | 10SL0059 | 08/25/2016 | 1 Year | 08/25/2017 | |

Test Software Version

| Test Item | Vendor | Software | Version |
|--------------------|---------|----------------|---------|
| Radiated Emission | EMISoft | EMISoft Vasona | V5.0 |
| Conducted Emission | EMISoft | EMISoft Vasona | V5.0 |

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Annex B. SIEMIC Accreditation

| Accreditations | Document | Scope / Remark |
|--------------------------------------|----------|--|
| ISO 17025 (A2LA) | Z | Please see the documents for the detailed scope |
| ISO Guide 65 (A2LA) | Z | Please see the documents for the detailed scope |
| TCB Designation | | A1, A2, A3, A4, B1, B2, B3, B4, C |
| FCC DoC Accreditation | 72 | FCC Declaration of Conformity Accreditation |
| FCC Site Registration | Z | 3 meter site |
| FCC Site Registration | 72 | 10 meter site |
| IC Site Registration | Z | 3 meter site |
| IC Site Registration | 7 | 10 meter site |
| EU NB | | Radio & Telecommunications Terminal Equipment: EN45001 – EN ISO/IEC 17025 |
| | B | Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025 |
| Singapore iDA CB(Certification Body) | 12 | Phase I, Phase II |
| Vietnam MIC CAB Accreditation | Z | Please see the document for the detailed scope |
| 0504 | Z | (Phase II) OFCA Foreign Certification Body for Radio and Telecom |
| Hong Kong OFCA | 72 | (Phase I) Conformity Assessment Body for Radio and Telecom |
| Industry Canada CAB | 7 | Radio: Scope A – All Radio Standard Specification in Category I |
| | Z | Telecom: CS-03 Part I, II, V, VI, VII, VIII |





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| Japan Recognized Certification Body Designation | 包包 | Radio: A1. Terminal equipment for purpose of calling Telecom: B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law |
|---|----|---|
| | | EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI EMS: KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS |
| Korea CAB Accreditation | ā | Radio: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68 |
| | | Telecom: President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4 |
| Taiwan NCC CAB Recognition | Ē | LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08 |
| Taiwan BSMI CAB Recognition | Z | CNS 13438 |
| Japan VCCI | ₺ | R-3083: Radiation 3 meter site C-3421: Main Ports Conducted Interference Measurement T-1597: Telecommunication Ports Conducted Interference Measurements |
| Australia CAB Recognition | 12 | EMC: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4 |
| | | Radio communications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771 |
| | | Telecommunications: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06 AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1 |
| Australia NATA Recognition | ₺ | AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2 |