ZEBRA TECHNOLOGIES CORP

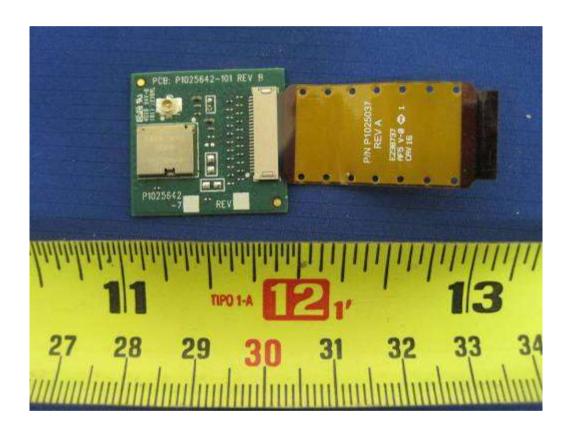
Bluetooth Module Model: EYSMACAXX

Host Printer Model: iMZ320

Dec 16th 2012

Report No.: SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0

(This report supersedes SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious))



Modifications made to the product: None

| This Test Report is Issued Under the Authority of: | | |
|----------------------------------------------------|----------------------------------------|--|
| David Zhang | a. | |
| David Zhang Compliance Engineer | Choon Sian Ooi Engineering Reviewer | |

This test report may be reproduced in full only. All Test Data Presented in this report is only applicable to presented Test sample.

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 2 of 50

Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to <u>testing</u> and <u>certification</u>, SIEMIC provides initial design reviews and <u>compliance management</u> through out a project. Our extensive experience with <u>China</u>, <u>Asia Pacific</u>, <u>North America</u>, <u>European</u>, <u>and international</u> compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the <u>global markets</u>.

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 | | Safety, EMC , RF/Wireless, Telecom | |
| Europe A2LA, 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 |
| HongKong | OFTA (US002) | RF , Telecom |



www.siemic.com

This page has been left blank intentionally.

| Serial# | SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 | Issue Date | Dec 16th 2012 | Page | 4 of 50 |

www.siemic.com

CONTENTS

| 1 EXECUTIVE SUMMARY & EUT INFORMATION | |
|-------------------------------------------------|----|
| 2 TECHNICAL DETAILS | |
| 3 REPORT REVISION HISTORY | |
| 4 TEST SUMMARY | 10 |
| 5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS | 11 |
| ANNEX A. TEST INSTRUMENT & METHOD | 22 |
| ANNEX B EUT AND TEST SETUP PHOTOGRAPHS | |
| ANNEX C. TEST SETUP AND SUPPORTING EQUIPMENT | |
| ANNEX D USER MANUAL, BLOCK & CIRCUIT DIAGRAM | |
| ANNEY E SIEMIC ACCDEDITATION | 24 |



www.siemic.com

This page has been left blank intentionally.

Serial#

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Issue Date Dec 16th 2012
Page 6 of 50 www.siemic.com

Executive Summary & EUT information

The purpose of this test programmed was to demonstrate compliance of the FCC/IC approved Radio module FCC ID: I28MD-ZBR5QLN, with antenna model: P0127365-01, installed inside host printer model: iMZ320, against the current Stipulated Standards. The complete system Bluetooth Module installed inside host printer model: iMZ320 has demonstrated compliance with the FCC 15.247 2012 & RSS-210 Issue 8: 2010.

Applicant & EUT Information

Applicant Information

| the morning of | | | |
|--------------------|----------------------------------------------------------------------------------|--|--|
| Applicant / Client | Zebra Technologies Corp 333 Corporate Woods Pkwy. Vernon Hills, IL 60061, USA | | |
| Manufacturer1 | Zebra Technologies Corp 333 Corporate Woods Pkwy. Vernon Hills, IL 60061, USA | | |

EUT Information

| : | Bluetooth Module | |
|---|---------------------------------------|--|
| : | EYSMACAXX | |
| : | iMZ320: XXXXJ123900068 (Host printer) | |
| : | N/A | |
| : | N/A | |
| : | N/A | |
| : | 12 VDC , 1.25A | |
| : | Bluetooth: -4.00 dBm | |
| : | Spread Spectrum System / Device | |
| : | N/A | |
| | N/A | |
| | N/A | |
| | Patch Antenna | |
| : | Bluetooth: 3.81 dBi; | |
| : | : N/A | |
| : | I28MD-ZBR5QLN | |
| : | 3798B-ZBR5QLN | |
| | | |



| Serial# | SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 | Issue Date | Dec 16th 2012 | 7 of 50 | www.siemic.com

| 2 | TECHNICAL DETAILS |
|---------------------------------|---------------------------------------------|
| Laboratory performing the tests | SIEMIC Laboratories |
| | 775 Montague Expressway, Milpitas, CA 95035 |
| Date of EUT received | Dec 3rd, 2012 |
| Dates of test (from - to) | Dec 3 rd – Dec 10th, 2012 |
| Equipment Category | Portable device |
| Standard applied | See page 2 |

EUT Test Mode Evaluation

EUT Major Function List

| Functions | Description | |
|-----------|------------------------|--|
| Fn#1 | Wireless communication | |
| Fn#2 | Print label | |

EUT Test Mode List

| RF Test Modes | Description | Test Configuration |
|---------------|-------------------|--------------------|
| RF_Test Mode | TTE test software | Continues Tx |

 Serial#
 SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0

 Issue Date
 Dec 16th 2012

 Page
 8 of 50

Supporting Equipment & Cabling

Supporting equipment used with the EUT

| Equipment Description | Model | Serial No. | Manufacturer |
|-----------------------|-------|------------|--------------|
| N/A | N/A | N/A | N/A |

Details of cables between EUT and Supporting Equipment

| Connection Start | | Connection Stop | | Length / shield | ing Info |
|------------------|----------|-----------------|----------|-----------------|-----------|
| From | I/O Port | То | I/O Port | Length(m) | Shielding |
| N/A | N/A | N/A | N/A | N/A | N/A |

Test Software Information

| Test Item | Software | Description |
|-----------|----------|-------------|
| N/A | N/A | N/A |

REPORT REVISION HISTORY 3

| Report No. | Report Version | Description | Issue Date |
|-------------------------------------------------------|-------------------|------------------------|------------|
| SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) | Original | NONE | 12/14/2012 |
| SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 | Rev1.0 | Update report template | 12/14/2012 |
| | | | |
| | | | |
| | | | |
| | | | |

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 10 of 50

4 TEST SUMMARY

The product was tested in accordance with the following specifications. All Testing has been performed according to below product classification:

Test Results Summary

| Test St | andard | Description | Test Date | Pass / Fail |
|-----------------------------|-----------------------|----------------------------------|------------|----------------|
| CFR 47 Part 15.247: 2011 | RSS 210 Issue 8: 2010 | | | |
| 15.203 | | Antenna Requirement | N/A | Pass |
| 15.205 | RSS210(A8.5) | Restricted Band of Operation | N/A | Pass(Original) |
| 15.207(a) | RSSGen(7.2.2) | Conducted Emissions Voltage | N/A | Pass(Original) |
| 15.247(a)(1) | RSS210(A8.1) | Channel Separation | N/A | Pass(Original) |
| 15.247(a)(1) | RSS210(A8.1) | Occupied Bandwidth | N/A | N/A |
| 15.247(a)(2) | RSS210 (A8.2) | Bandwidth | N/A | Pass(Original) |
| 15.247(a)(1) | RSS210(A8.1) | Number of Hopping Channels | N/A | Pass(Original) |
| 15.247(a)(1) | RSS210(A8.1) | Time of Occupancy | N/A | Pass(Original) |
| 15.247(b) | RSS210(A8.4) | Output Power | N/A | Pass(Original) |
| 15.247(c) | RSS210(A8.4) | Antenna Gain > 6 dBi | N/A | N/A |
| 15.209; 15.247(d) | RSS210(A8.5) | Radiated Spurious Emissions | 07/20/2012 | Pass |
| 15.247(e) | RSS210(A8.3) | Power Spectral Density | N/A | N/A |
| 15.247(f) | RSS210(A8.3) | Hybrid System Requirement | N/A | N/A |
| 15.247(g) | RSS210(A8.1) | Hopping Capability | N/A | Pass(Original) |
| 15.247(h) | RSS210(A8.1) | Hopping Coordination Requirement | N/A | Pass(Original) |
| 15.247(i) | RSSGen(5.5) | RF Exposure requirement | N/A | Pass |
| | RSSGen(4.8) | Receiver Spurious Emissions | N/A | Pass |

ANSI C63.4: 2009/ RSS-Gen Issue 3: 2010

PS: All measurement uncertainties are not taken into consideration for all presented test result.

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 11 of 50

5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 Antenna Requirement

Requirement(s): 47 CFR §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) Antenna must use a unique type of connector to attach to the device.
- c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.

EUT uses patch antenna, which is using unique connector.

The peak antenna gain of internal patch antenna is: Bluetooth: 3.81 dBi;

Results: PASS

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012

www.siemic.com

5.2 Conducted Emissions Voltage

Requirement:

| | Conducted lim | it (dBμV) |
|-----------------------------|---------------|-----------|
| Frequency of emission (MHz) | Quasi-peak | Average |
| 0.15–0.5 | 66 to 56* | 56 to 46* |
| 0.5–5 | 56 | 46 |
| 5–30 | 60 | 50 |

^{*}Decreases with the logarithm of the frequency.

Procedures:

- 1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
- 2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
- 3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is ±3.86dB.

4. Environmental Conditions

Temperature N/A Relative Humidity N/A

Atmospheric Pressure

N/A

Test Date : N/A Tested By :N/A

Results: Pass (Original)

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012

13 of 50 www.siemic.com

5.3 Channel Separation

Conducted Measurement

1. EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2 Environmental Conditions Temperature N/A

Relative Humidity N/A

Atmospheric Pressure N/A

Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ±1.5dB.

4 Test Date : N/A
Tested By :N/A

Requirement(s): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Procedures: The Channel Separation was measured conducted using a spectrum analyzer at low, mid, and high channels.

Results: Pass (Original)

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012

14 of 50

5.4 20dB Occupied Bandwidth

1. <u>Conducted Measurement</u>

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2 Environmental Conditions Temperature N/A

Relative Humidity N/A

Atmospheric Pressure N/A

3 Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$.

4 Test Date : N/A Tested By :N/A

Requirement(s): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 2/3 of 20 dB bandwidth of the hopping channel, whichever is greater.

Procedures: The 20dB bandwidths were measured conducted using a spectrum analyzer at low, mid, and hi channels.

Results: Pass (Original)

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012

www.siemic.com

5.5 Number of Hopping Channel

Conducted Measurement

1. EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ±1.5dB.

3 Environmental Conditions Temperature

Temperature N/A
Relative Humidity N/A
Atmospheric Pressure N/A

4 Test Date : N/A Tested By : N/A

Standard Requirement:

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

Procedures: The Number of Hopping Channel measurement was taken conducted using a spectrum analyzer.

RBW=100 KHz, VBW > RBW

Results: Pass (Original)

www.siemic.com

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012

N/A N/A

N/A

5.6 Time of Occupancy

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2 Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the

range 30MHz - 40GHz is $\pm 1.5dB$.

3 Environmental Conditions

Temperature
Relative Humidity

Atmospheric Pressure

4 Test Date : N/A Tested By : N/A

Standard Requirement:

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used

Procedures: The Time of Occupancy measurement was taken conducted using a spectrum analyzer.

Results: Pass (Original)

Serial# Issue Date SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0

www.siemic.com

5.7 Peak Output Power

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2 Conducted Emissions Measurement Uncertainty

> All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the

range 30MHz - 40GHz is $\pm 1.5dB$.

Environmental Conditions

Temperature N/A Relative Humidity N/A N/A Atmospheric Pressure

4 Test Date: N/A Tested By :N/A

3

Standard Requirement: 47 CFR §15.247(b)

For all other frequency hopping systems in the 2400-2483.5band: 0.125 Watt.

Procedures: The peak output power was measured conducted using a spectrum analyzer at low, mid, and hi channels. Peak

detector was set to measure the power output. The power is converted from watt to dBm, therefore, 1 watt = 30

dBm.

Results: Pass (Original)

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012

18 of 50 www.siemic.com

5.8 Radiated Spurious Emission < 1GHz

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.

2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.

3. Radiated Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 1GHz (QP only @ 3m & 10m) is +6.0dB (for EUTs < 0.5m X 0.5m X 0.5m).

4 Environmental Conditions

Temperature 23°C
Relative Humidity 50%
Atmospheric Pressure 1019mbar

Test Date: Dec 3rd - Dec 10th, 2012

Tested By : David Zhang

Standard Requirement: 47 CFR §15.247(d)

Procedures: The emissions from the Low-power radio-frequency devices shall not exceed the field strength levels specified in the

following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The

tighter limit applies at the band edges.

The limit is converted from microvolts/meter to decibel microvolts/meter.

Sample Calculation: Corrected Amplitude = Raw Amplitude (dBµV/m) + ACF (dB) + Cable Loss (dB)

Test Result: Pass

30MHz ~1000MHz Result @ 3m

| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--------------------------------------------|--------------------|----------------------|
| 800.908 | 17.303 | 359 | 1.00 | Н | 21.236 | 3.281 | 0 | 41.82 | 46 | -4.18 | PK |
| 466.257 | 19.659 | 8 | 1.00 | V | 16.875 | 2.256 | 0 | 38.79 | 46 | -7.21 | PK |
| 865.776 | 15.766 | 12 | 1.00 | V | 22 | 3.334 | 0 | 41.1 | 46 | -4.9 | PK |
| 30.121 | 11.913 | 55 | 1.00 | V | 20.791 | 0.946 | 0 | 33.65 | 40 | -6.35 | PK |
| 951.985 | 15.503 | 152 | 3.00 | V | 22.24 | 3.597 | 0 | 41.34 | 46 | -4.66 | PK |
| 170.044 | 23.792 | 126 | 1.00 | V | 11.796 | 1.712 | 0 | 37.3 | 43.52 | -6.22 | PK |

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0
Dec 16th 2012

www.siemic.com

5.9 Radiated Spurious Emissions > 1GHz & Band Edge

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.

2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.

3. Radiated Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 1GHz – 40GH is +6.0dB (for EUTs < 0.5m X 0.5m X 0.5m).

4. Environmental Conditions

Temperature 23°C
Relative Humidity 50%
Atmospheric Pressure 1019mbar

Test Date: Dec 3rd – Dec 10th, 2012

Tested By : David Zhang

Standard Requirement: 47 CFR §15.247(d)

Procedures: Equipment was setup in a semi-anechoic chamber. For measurements above 1 GHz an average measurement was taken with a 10Hz video bandwidth. The EUT was tested at low, mid and high with the highest output power. An emission was scan up to 10th harmonic of the operating frequency.

Sample Calculation:

EUT Field Strength = Raw Amplitude ($dB\mu V/m$) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)

Test Result: Pass

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012

20 of 50

Configuration:

Bluetooth Mode Basic Rate Test Mode, 1Mbps

Low Channel @ 2402MHz @ 3 Meter

| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--------------------------------------------|--------------------|----------------------|
| 2.4 | 59.05 | 36 | 1.87 | V | 27.50 | 2.5 | 32.04 | 57.01 | 74 | -16.99 | Peak |
| 2.4 | 59.10 | 8 | 1.00 | Н | 27.50 | 2.5 | 32.04 | 57.06 | 74 | -16.94 | Peak |
| 2.4 | 37.07 | 36 | 1.87 | V | 27.50 | 2.5 | 32.04 | 35.03 | 54 | -18.97 | Ave |
| 2.4 | 37.17 | 8 | 2.03 | Н | 27.50 | 2.5 | 32.04 | 35.13 | 54 | -18.87 | Ave |
| 4.803 | 56.38 | 273 | 1.38 | V | 32.20 | 4.125 | 32.49 | 60.21 | 74 | -13.79 | Peak |
| 4.803 | 52.59 | 90 | 1.00 | h | 32.20 | 4.125 | 32.49 | 56.43 | 74 | -17.57 | Peak |
| 4.803 | 43.48 | 273 | 1.38 | V | 32.20 | 4.125 | 32.49 | 47.31 | 54 | -6.69 | Ave |
| 4.803 | 40.66 | 90 | 1.67 | h | 32.20 | 4.125 | 32.49 | 44.49 | 54 | -9.51 | Ave |

Note: Emission was scanned up to 25GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

Mid Channel @ 2441MHz @ 3 Meter

| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--------------------------------------------|--------------------|----------------------|
| 1.702 | 46.83 | 271 | 1.38 | V | 25.70 | 2.16 | 31.98 | 42.71 | 74 | -31.29 | Peak |
| 1.702 | 44.11 | 126 | 1.00 | h | 25.70 | 2.16 | 31.98 | 39.99 | 74 | -34.01 | Peak |
| 1.702 | 39.02 | 271 | 1.38 | V | 25.70 | 2.16 | 31.98 | 34.90 | 54 | -19.10 | Ave |
| 1.702 | 36.42 | 126 | 1.57 | h | 25.70 | 2.16 | 31.98 | 32.30 | 54 | -21.70 | Ave |

Note: Emission was scanned up to 25GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

High Channel @ 2480MHz @ 3 Meter

| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--------------------------------------------|--------------------|----------------------|
| 2.484 | 45.00 | 199 | 1.95 | V | 27.50 | 2.5 | 32.04 | 42.96 | 74 | -31.04 | Peak |
| 2.484 | 47.44 | 299 | 1.00 | Н | 27.50 | 2.5 | 32.04 | 45.40 | 74 | -28.60 | Peak |
| 2.484 | 36.69 | 199 | 1.95 | V | 27.50 | 2.5 | 32.04 | 34.65 | 54 | -19.35 | Ave |
| 2.484 | 38.44 | 299 | 1.54 | Н | 27.50 | 2.5 | 32.04 | 36.40 | 54 | -17.60 | Ave |
| 1.797 | 46.38 | 85 | 1.41 | V | 25.70 | 2.16 | 31.98 | 42.26 | 74 | -31.74 | Peak |
| 1.797 | 44.07 | 121 | 1.00 | h | 25.70 | 2.16 | 31.98 | 39.95 | 74 | -34.05 | Peak |
| 1.797 | 38.71 | 85 | 1.41 | V | 25.70 | 2.16 | 31.98 | 34.59 | 54 | -19.41 | Ave |
| 1.797 | 36.67 | 121 | 2.04 | h | 25.70 | 2.16 | 31.98 | 32.55 | 54 | -21.45 | Ave |

Note: Emission was scanned up to 25GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 21 of 50

www.siemic.com

Bluetooth Mode EDR Test Mode, 3Mbps

Low Channel @ 2402MHz @ 3 Meter

| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--------------------------------------------|--------------------|----------------------|
| 2.4 | 56.64 | 58 | 1.76 | V | 27.50 | 2.5 | 32.04 | 54.60 | 74 | -19.40 | Peak |
| 2.4 | 58.08 | 84 | 1.00 | Н | 27.50 | 2.5 | 32.04 | 56.04 | 74 | -17.96 | Peak |
| 2.4 | 37.39 | 58 | 1.76 | V | 27.50 | 2.5 | 32.04 | 35.35 | 54 | -18.65 | Ave |
| 2.4 | 36.49 | 84 | 1.91 | Н | 27.50 | 2.5 | 32.04 | 34.45 | 54 | -19.55 | Ave |
| 1.641 | 49.11 | 141 | 1.00 | V | 25.70 | 2.16 | 31.98 | 44.99 | 74 | -29.02 | Peak |
| 1.641 | 43.55 | 232 | 1.00 | h | 25.70 | 2.16 | 31.98 | 39.43 | 74 | -34.57 | Peak |
| 1.641 | 27.85 | 141 | 2.82 | V | 25.70 | 2.16 | 31.98 | 23.73 | 54 | -30.27 | Ave |
| 1.641 | 26.48 | 232 | 2.00 | h | 25.70 | 2.16 | 31.98 | 22.36 | 54 | -31.64 | Ave |

Note: Emission was scanned up to 25GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

Mid Channel @ 2441MHz @ 3 Meter

| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--------------------------------------------|--------------------|----------------------|
| 1.703 | 48.26 | 270 | 1.81 | V | 25.70 | 2.16 | 31.98 | 44.14 | 74 | -29.86 | Peak |
| 1.703 | 45.97 | 99 | 1.00 | h | 25.70 | 2.16 | 31.98 | 41.85 | 74 | -32.15 | Peak |
| 1.703 | 38.13 | 270 | 1.81 | V | 25.70 | 2.16 | 31.98 | 34.01 | 54 | -19.99 | Ave |
| 1.703 | 36.15 | 99 | 1.63 | h | 25.70 | 2.16 | 31.98 | 32.03 | 54 | -21.97 | Ave |

Note: Emission was scanned up to 25GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

High Channel @ 2480MHz @ 3 Meter

| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--------------------------------------------|--------------------|----------------------|
| 2.484 | 45.76 | 199 | 1.38 | V | 27.50 | 2.5 | 32.04 | 43.72 | 74 | -30.28 | Peak |
| 2.484 | 46.82 | 299 | 1.00 | Н | 27.50 | 2.5 | 32.04 | 44.78 | 74 | -29.22 | Peak |
| 2.484 | 35.78 | 199 | 1.38 | V | 27.50 | 2.5 | 32.04 | 33.74 | 54 | -20.26 | Ave |
| 2.484 | 37.38 | 299 | 1.62 | Н | 27.50 | 2.5 | 32.04 | 35.34 | 54 | -18.66 | Ave |
| 1.756 | 47.62 | 90 | 1.00 | V | 25.70 | 2.16 | 31.98 | 43.50 | 74 | -30.50 | Peak |
| 1.756 | 45.40 | 90 | 1.00 | h | 25.70 | 2.16 | 31.98 | 41.28 | 74 | -32.72 | Peak |
| 1.756 | 35.89 | 90 | 1.39 | V | 25.70 | 2.16 | 31.98 | 31.77 | 54 | -22.23 | Ave |
| 1.756 | 32.46 | 90 | 2.00 | h | 25.70 | 2.16 | 31.98 | 28.34 | 54 | -25.66 | Ave |

Note: Emission was scanned up to 25GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

| Instrument | Model | Serial # | Calibration Date | Calibration Due | Calibrate Cycle |
|----------------------------------------------|---------|-----------------|---------------------|--------------------|--------------------|
| | | Conducted E | missions | | |
| R & S Receiver | ESIB 40 | 100179 | 4/20/2012 | 4/20/2013 | 1year |
| R&S LISN | ESH2-Z5 | 861741/013 | 05/18/2012 | 05/18/2013 | 1year |
| CHASE LISN | MN2050B | 1018 | 05/18/2012 | 05/18/2013 | 1year |
| Sekonic Hygro Hermograph | ST-50 | HE01- 000092 | 05/25/2012 | 05/25/2013 | 1year |
| | | Radiated En | nissions | | |
| R & S Receiver | ESIB 40 | 100179 | 4/20/2012 | 4/20/2013 | 1year |
| Sunol Sciences, Inc. antenna (30MHz~2GHz) | JB1 | A030702 | 2/9/2012 | 2/9/2013 | 1year |
| Sekonic Hygro Hermograph | ST-50 | HE01- 000092 | 05/25/2012 | 05/25/2013 | 1year |
| Spectrum Analyzer | 8564E | 3738A00962 | 05/19/2012 | 05/19/2013 | 1year |
| Antenna(1 ~18GHz) | 3115 | 10SL0059 | 4/26/2012 | 4/26/2013 | 1year |
| Pre-Amplifier(1 ~ 26GHz) | 8449 | 3008A00715 | 5/17/2012 | 5/17/2013 | 1year |
| Horn Antenna (18~40GHz) | AH-840 | 101013 | 4/23/2012 | 4/23/2013 | 1year |
| Microwave Preamplifier; 18-40 GHz | PA-840 | 181251 | N/A | N/A | Every 2000hours |
| Signal Analyzer | FSIQ7 | 825555/013 | 5/10/2012 | 5/10/2013 | 1year |
| 10m Semi-Anechoic Chamber | 10M | 10SL0164 | 6/5/2012 | 6/5/2013 | 1 year |
| | R | F Conducted | Emissions | | |
| R & S Receiver | ESIB 40 | 100179 | 4/20/2012 | 4/20/2013 | 1year |

Note: Functional Verification

Serial#

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Issue Date Dec 16th 2012
Page 23 of 50

EUT AND TEST SETUP PHOTOGRAPHS Annex B

Please see the attachment

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

EUT TEST CONDITIONS

Annex C. i. **SUPPORTING EQUIPMENT DESCRIPTION**

The following is a description of supporting equipment and details of cables used with the EUT.

| Equipment Description (Including Brand Name) | Model & Serial Number | Cable Description (List Length, Type & Purpose) |
|----------------------------------------------|-----------------------|----------------------------------------------------|
| N/A | N/A | N/A |

Annex C.ii. **EUT OPERATING CONDITIONS**

The following is the description of how the EUT is exercised during testing.

| Test | Description Of Operation |
|-------------------|-------------------------------------------------------------------------------------------------|
| Emissions Testing | The EUT was controlled via PC Laptop using Program provided by applicant and set to be cont TX. |
| Others Testing | The EUT was controlled via PC Laptop using Program provided by applicant and set to be cont TX. |
| | |

www.siemic.com

Annex D USER MANUAL, BLOCK & CIRCUIT DIAGRAM

Please see attachment

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012

25 of 50 www.siemic.com

Annex E SIEMIC ACCREDITATION

SIEMIC ACCREDITATION DETAILS: A2LA 17025 & ISO Guide 65: 2742.01, 2742.2



American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

SIEMIC, INC.

Milpitas, 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 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 19th day of September 2012.

The second secon

President & CEO For the Accreditation Council Certificate Number 2742.01 Valid to September 30, 2014

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



SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012





American Association for Laboratory Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SIEMIC, INC. dba SIEMIC LABORATORIES 775 Montague Expressway Milpitas, CA 95035

Mr. Leslie Bai Phone: 408 526 1188 Email: leslie.bai@siemic.com Mr. Snell Leong Phone: 408 526 1188 Email: snell.leong@siemic.com www.siemic.com

ELECTRICAL

Valid to: September 30, 2014 Certificate Number: 2742.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following EMC, Product Safety, Radio and Telecommunication tests:

| Test Technology: | Test Method(s): |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EN & IEC – Emissions & Immunity | IEC/CISPR 11; EN 55011; IEC/CISPR 20; EN 55020; IEC/CISPR 22; EN 55022; IEC/CISPR 24; EN 55024; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 61204-3; EN 61326-1; EN 61326-2-1; EN 61326-2-2; EN 61326-2-3; EN 61326-2-4; EN 61326-2-5; EN 61000-3-2; EN 61000-3-3; EN 50081-1; EN 50081-2; EN 50082-1; IEC 61000-4-2; EN 61000-4-2; IEC 61000-4-3; (limited up to 2.7 GHz and 3V m); EN 61000-4-3; (limited up to 2.7 GHz and 3V m); IEC 61000-4-4; EN 61000-4-4; IEC 61000-4-5; EN 61000-4-5; IEC 61000-4-6; EN 61000-4-6; IEC 61000-4-11; EN 61000-4-11; EN 50412-2-1; EN 50083-2; EN 50090-2-2; EN 50091-2; EN 50491-5-1; EN 50491-5-2; EN 50491-5-3; EN 61547; IEC 60601-1-2; CISPR 16-2-3 |

(A2LA Cert. No. 2742.01) 09/19/2012

Page 1 of 8

5301 Buckeystown Pike, Suite 350 | Frederick, Maryland 21704-8373 | Phone: 301 644 3248 | Fax: 301 662 2974 | www.A2LA.org

| Korea – Emissions & | |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunity | RRA Public Notification 2011-24; RRA Announce 2011-30; Annex 2 (KN 11); Annex 3 (KN 13); Annex 4 (KN 14-1); Annex 5 (KN 22); Annex 6 (KN 41); Annex 7 (KN 50); Annex 9 (KN 15); Annex 10 (KN 19); Annex 11 (KN 60); Annex 1-1 (KN 16-1-1); Annex 1-2 (KN 16-1-2); Annex 1-3 (KN 16-1-3); Annex 1-4 (KN 16-1-4); Annex 1-5 (KN 16-1-5); Annex 1-6 (KN 16-2-1); Annex 1-7 (KN 16-2-2); Annex 1-8 (KN 16-2-3); Annex 1-9 (KN 16-2-4); Annex 8-5 (KN 301-489-06); Annex 8-6 (KN 301-489-03); Annex 8-7 (KN 301-489-05); Annex 8-8 (KN 301-489-03); Annex 8-9 (KN 301-489-09); Annex 8-10 (KN 301-489-26); Annex 8-11 (KN 301-489-02); Annex 8-12 (KN 301-489-15); Annex 8-13 (KN 301-489-32); Annex 8-14 (KN 301-489-27); Annex 8-15 (KN 301-489-32); Annex 8-16 (KN 301-489-20); Annex 8-17 (KN 60945) RRA Public Notification 2011-25; RRA Announce 2011-31; Annex 1-1 (KN 61000-4-2); Annex 1-2 (KN 61000-4-3); Annex 1-3 (KN 61000-4-6); Annex 1-4 (KN 61000-4-5); Annex 1-5 (KN 61000-4-11); Annex 1-6 (KN 61000-4-8); Annex 1-7 (KN 61000-4-11); Annex 2 (KN 60601-1-2); Annex 3 (KN 20); Annex 4 (KN 14-2); Annex 5 (KN 24); Annex 6 (KN 41); Annex 7 (KN 51); Annex 8-1 (KN 301-489-07); Annex 8-3 (KN 301-489-01); Annex 8-2 (KN 301-489-07); Annex 8-3 (KN 301-489-17); Annex 8-4 (KN 301-489-24); |
| US / FCC - Emissions | FCC Method 47 CFR Part 18, FCC Report and Order ET Docket 98-153 (FCC 02-48); FCC Method 47 CFR Parts15, including Subpart G, using FCC Order 04-425; ANSI C63.4 (2003); ANSI C63.4 (2009); ANSI C63.10 (2009); ANSI C63.4 (2003) with FCC Method 47 CFR Part 11; ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart E; ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart C; ANSI C63.4 (2003) and DA 02-2138; ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart B |
| Canada – Emissions | ICES-001; ICES-002; ICES-003; ICES-005; ICES-006 |
| Vietnam – Emission & Immunity | TCN 68-193:2003; TCN 68-196:2001; TCVN 7189:2002; TCVN 7189:2009 (CISPR 22:2006) |
| Australia / New Zealand – Emissions and Immunity | AS/NZS 1044; AS/NZS 2279.3; AS/NZS 3548; AS/NZS 4251.1; AS/NZS 4251.2; AS/NZS CISPR 11; AS/NZS CISPR 14.1; AS/NZS CISPR 22; AS/NZS CISPR 24; AS/NZS 61000.3.2; AS/NZS 61000.3.3; AS/NZS 61000.6.3; AS/NZS 61000.6.4 |
| Japan – Emissions | JEITA IT-3001; VCCI-V-3 (up to 6 GHz) |
| AUG 01 1001 100 100 | GB9254; GB17625.1 |

(A2LA Cert. No. 2742.01) 09/19/2012

Peter Mbye Page 2 of 8

| Test Technology: | Test Method(s): |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Taiwan – Emissions | CNS 13438 (up to 6 GHz); CNS 13783-1; CNS 13803; CNS 13439 |
| Singapore – Emissions & Immunity | IDA TS EMC; CISPR 22; IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-4; IEC 61000-4-5; IEC 61000-4-6 |
| FCC – Unlicensed Radio A1 to A4 | A1: 47 CFR Parts 11 (Emergency Alert System (EAS)), 15 (Radio Frequency Devices) and 18 (Industrial, Scientific, and Medical Equipment); FCC OST/MP-5(1986); ANSI C63.4(2003); ANSI C63.4(2009); ANSI C63.10(2009) |
| | A2: 47 CFR Part 15 (Radio Frequency Devices); ANSI C63.4(2003); ANSI C63.4(2009); ANSI C63.10(2009) |
| | A3: 47 CFR Part 15 (Radio Frequency Devices); ANSI C63.17:2006; ANSI C63.10(2009); IEEE Std 1528:2003 + A1; Std IEEE 528A:2005 |
| | A4: 47 CFR Part 15 (Radio Frequency Devices); ANSI C63.10(2009); IEEE Std 1528:2003 + A1; Std IEEE 1528A:2005 |
| FCC – Licensed Radio B1 to B4 | B1: 47 CFR Parts 2 (Frequency Allocations and Radio Treaty Matters; General Rules and Regulations), 22 (Public Mobile Services). 24 (Personal Communications Services), 25 (Satellite Communications), and 27 (Miscellaneous Wireless Communications Services); ANSI/TIA-603-C (2004), ANSI/TIA-603-D(2010), Land Mobile FM or PM Communications Equipment Measurement and Performance Standard; IEEE Std 1528:2003 + Ad1; Std IEEE 1528A:2005 B2: 47 CFR Parts 2 (Frequency Allocations and Radio Treaty Matters; General Rules and Regulations), 22 (Public Mobile Services), 74 (Experimental Radio Auxiliary, Special Broadcast and Other Program Distributional Services), 90 (Private Land Mobile Radio Services), 95 (Personal Radio Services), and 97 (Amateur Radio Services); ANSI/TIA-603-C (2004), ANSI/TIA-603-D(2010), Land Mobile FM or PM Communications Equipment Measurement and Performance Standard |
| | B3: 47 CFR Parts 2 (Frequency Allocations and Radio Treaty Matters; General Rules and Regulations); 80 (Stations in the Maritime Services), 87 (Aviation Services); ANSI/TIA-603-C (2004), ANSI/TIA-603- D(2010), Land Mobile FM or PM Communications Equipment Measurement and Performance Standard |
| | B4: 47 CFR Parts 2 (Frequency Allocations and Radio Treaty Matters; General Rules and Regulations); 27 (Broadband Radio Services (BRS) and Educational Broadband Services (EBS)), 74 (Experimental Radio Auxiliary, Special Broadcast and Other Program Distributional Services), and 101 (Fixed Microwave Services); ANSI/TIA-603-C (2004), ANSI/TIA-603-D(2010), Land Mobile FM or PM Communications Equipment Measurement and Performance Standard |

(A2LA Cert. No. 2742.01) 09/19/2012

Peter Mbye Page 3 of 8

| Test Technology: | Test Method(s): |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Canada – Radio | RSS 102; RSS 111; RSS 112; RSS 117; RSS 118; RSS 119; RSS 123; |
| AND THE PARTY OF T | RSS 125; RSS 127; RSS 129; RSS 131; RSS 132; RSS 133; RSS 134; |
| | RSS 135; RSS 136; RSS 137; RSS 138; RSS 139; RSS 141; RSS 142; |
| | RSS 170; RSS 181; RSS 182; RSS 191; RSS 192; RSS 194; RSS 195; |
| | RSS 196; RSS 197; RSS 199; RSS 210; RSS 220; RSS 213; RSS 215; |
| | RSS 243; RSS 287; RSS 288; RSS 310; RSS Gen |
| CE – Radio | EN 301 502; EN 301 511; EN 301 526; EN 301 681; EN 301 721; |
| | EN 301 751; EN 301 753; EN 301 783-2; EN 301 796; EN 301 797; |
| | EN 301 840-2; EN 301 843-1; EN 301 843-4; EN 301 843-5; |
| | EN 301 893; EN 301 908-01; EN 301 908-02; EN 301 908-03; |
| | EN 301 908-04; EN 301 908-05; EN 301 908-06; EN 301 908-07; |
| | EN 301 908-08; EN 301 908-09; EN 301 908-10; EN 301 908-11; |
| | EN 301 929-2; EN 301 997-2; EN 302 018-2; EN 302 054-2; |
| | EN 302 064-2; EN 302 066-2; EN 302 077-2; EN 302 186; |
| | EN 302 195-2; EN 302 217-3; EN 302 245-2; EN 302 288-2; |
| | EN 302 291-2; EN 302 296; EN 302 297; EN 302 326-2; |
| | EN 302 326-3; EN 302 340; EN 302 372-2; EN 302 426; |
| | EN 302 454-2; EN 302 480; EN 302 502; EN 302 510-2; |
| | EN 302 217-4-2; EN 300 224-1; EN 300 279; EN 300 339; |
| | EN 300 385; EN 301 839-2; EN 301 843-6; EN 302 017-2; |
| | EN 302 208-2; EN 302 217-2-2; ETS 300 329; ETS 300 445; |
| | ETS 300 446; ETS 300 683; ETS 300 826; ETS EN 300 328; |
| | ETSI EN 300 086-2; EN 302 217-1; EN 302 217-2-1; EN 302 217-4-1; |
| | EN 302 288-1; EN 302 908-12; EN 302 326-1; EN 301 929-1; |
| | EN 301 997-1; EN 300 224-2; EN 301 839-1; EN 301 843-1; |
| | EN 301 843-2; EN 301 843-3; EN 301 843-4; EN 301 843-5; |
| | EN 302 017-1; EN 302 208-1; EN 300 086-1; EN 300 113-1; EN 300 224-1; EN 300 341-1; EN 302 291-1; EN 302 500-1; |
| | EN 302 2500-2; ETSI EN 300 113-2; ETSI EN 300 197; |
| | ETSI EN 300 198; ETSI EN 300 219-1; ETSI EN 300 219-2; |
| | ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 300 220-3; |
| | ETSI EN 300 224-2; ETSI EN 300 296-1; ETSI EN 300 296-2; |
| | ETSI EN 300 328-1; ETSI EN 300 328-2; |
| | ETSI EN 300 330; ETSI EN 300 330-1; ETSI EN 300 330-2; |
| | ETSI EN 300 341-2; ETSI EN 300 373-1; ETSI EN 300 373-2; |
| | ETSI EN 300 373-3; ETSI EN 300 390-1; ETSI EN 300 390-2; |
| | ETSI EN 300 422-1; ETSI EN 300 422-2; ETSI EN 300 431; |
| | ETSI EN 300 440-1; ETSI EN 300 440-2; ETSI EN 300 454-1; |
| | ETSI EN 300 454-2; ETSI EN 300 718-2; ETSI EN 301 021; |
| | ETSI EN 301 166-1; ETSI EN 301 166-2; ETSI EN 301 178-2; |
| | ETSI EN 301 213-1; ETSI EN 301 213-2; ETSI EN 301 213-3; |
| | ETSI EN 301 213-4; ETSI EN 301 213-5; ETSI EN 301 357-1; |
| | ETSI EN 301 357-2; ETSI EN 301 390; ETSI EN 301 459; |
| | ETSI EN 301 489-01 (excluding section 9.6); |
| | ETSI EN 301 489-02; ETSI EN 301 489-03; ETSI EN 301 489-04; |
| | ETSI EN 301 489-05; ETSI EN 301 489-06; ETSI EN 301 489-07; |
| | ETSI EN 301 489-08; ETSI EN 301 489-09; ETSI EN 301 489-10; |
| | ETSI EN 301 489-11; ETSI EN 301 489-12; ETSI EN 301 489-13; |
| | ETSI EN 301 489-14; ETSI EN 301 489-15; ETSI EN 301 489-16; |
| | ETSI EN 301 489-17; ETSI EN 301 489-18; ETSI EN 301 489-19; |
| | ETSI EN 301 489-20; ETSI EN 301 489-22; ETSI EN 301 489-23; |
| | ETSI EN 301 489-24; ETSI EN 301 489-25; ETSI EN 301 489-26; |

(A2LA Cert. No. 2742.01) 09/19/2012

Peter Mbye Page 4 of 8

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 30 of 50 www.siemic.com

| Test Technology: | Test Method(s): |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CE – Radio (continued) | ETSI EN 301 489-27; ETSI EN 301 489-28; ETSI EN 301 489-31; ETSI EN 301 489-32; IEC 60945; EN 302 480 |
| IDA – Radio | IDA TS AR; IDA TS CT-CTS; IDA TS GMPCS; IDA TS LMR; IDA TS RPG; IDA TS SRD; IDA TS UWB; IDA TS WBA; IDA TS CMT; IDA TS CBS |
| Vietnam – Radio | QCVN 54:2011/BTTTT; TCN 68-242:2006; QCVN 11:2010/BTTTT QCVN 17:2010/BTTTT |
| Korea – Radio | KCC Public Notification 2012-12; RRA Announce 2011-32; RRA Public Notification 2010-46 |
| Taiwan – Radio | LP0002; PLMN07; PLMN01; PLMN08 |
| Australia - New Zealand – Radio | AS 2772.2; AS/NZS 4281; AS/NZS 4268; AS/NZS 4280.1; AS/NZS 4583; AS/NZS 4280.2; AS/NZS 4281; AS/NZS 4295; AS/NZS 4582; AS/NZS 4769.1; AS/NZS 4769.2; AS/NZS 4770; AS/NZS 4771 |
| Hong Kong – Radio | HKCA 1002; HKCA 1007; HKCA 1008; HKCA 1010; HKCA 1015; HKCA 1016; HKCA 1020; HKCA 1022; HKCA 1026; HKCA 1027; HKCA 1029; HKCA 1030; HKCA 1031; HKCA 1032; HKCA 1033; HKCA 1034; HKCA 1035; HKCA 1036; HKCA 1037; HKCA 1039; HKCA 1041; HKCA 1042; HKCA 1043; HKCA 1044; HKCA 1046; HKCA 1047; HKCA 1048; HKCA 1049; HKCA 1051; HKCA 1052; HKCA1053; HKCA 1054; HKCA 1055; HKCA 1056; HKCA 1057; HKCA 1061 |
| FCC Telephone Terminal Equipment Scope C1 | TIA-968-B; FCC Rule Part 68; 47 CFR Part 68.316; 47 CFR Part 68.317; ANSI/TIA/EIA-464-C; TIA-810-B; T1.TRQ6 (2002); TCB-31-B (1998); TIA-470.110-C; TIA-920 |
| Canada – Telecom | CS-03 Part I Issue 9:2010, Amendment 4; CS-03 Part II Issue 9:2004; CS-03 Part V Issue 9:2009 Amendment 1; CS-03 Part VI Issue 9:2004; CS-03 Part VII Issue 9:2006 Amendment 3; CS-03 Part VIII Issue 9:2009 Amendment 4 |
| Europe – Telecom | TBR 2: 01-1997; TBR 004 Ed.1.95 + A1 (97); TBR 1; TBR 3; TBR 12:A1 01-1996; TBR 013 ed.1; TBR 024 ed.1; TBR 25; TBR 38 ed.1; TBR 021; ETSI ES 203 021-05; ETSI ES 203 021-2; ETSI ES 021-3; ETSI EG 201 121; ETSI EN 301 437; ETSI TS 101 270-1; ITU-T Recommendation Q.920; ITU-T Recommendation Q.920 - Amendment 1; ITU-T Recommendation Q.921; ITU-T Recommendation Q.921 - Amendment 1; ITU-T Recommendation Q.931; ITU-T Recommendation Q.931; ITU-T Recommendation Q.931 - Amendment 1; Erratum 1 (02/2003) ITU-T Recommendation Q.931 (05/1998); |

(A2LA Cert. No. 2742.01) 09/19/2012

Peter Mhye Page 5 of 8

| Test Technology: | Test Method(s): |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Europe – Telecom (cont'd) | ISDN User Network Interface Layer 3 Specification for Basic Call Control; ITU-T Recommendation P.300 |
| Australia – Telecom Australia – Telecom | AS/CA S003.1:2010; AS/CA S002:2011; AS/ACIF S004:2008; AS/CA S042.1:2011; AS/CA S003.3:2010; AS/CA S003.3:2010; AS/CA S004:2010; AS/ACIF S006:2008; AS/ACIF S041.1:2009 AS/ACIF S041.3:2009; AS/ACIF S041.3:2009; AS/ACIF S043.2:2008; AS/ACIF S043.3:2008; AS/ACIF S043.3:2008; AS/ACIF S003:06; AS/ACIF S006:01; AS/ACIF S006:01; AS/ACIF S006:01; AS/ACIF S016:01; AS/ACIF S038:01; AS/ACIF S040:01; AS/ACIF S040:01; AS/ACIF S041:05; AS/ACIF S041:05; AS/ACIF S041:05; AS/ACIF S043.2:06 |
| New Zealand – Telecom | PTC200:2006; PTC200 Issue No.2:97 + A1(980); PTC220; PTC273:2007; TNA 115; TNA 117 |
| Singapore – Telecom | IDA TS ADSL; IDA TS DLCN; IDA TS ISDN BA; IDA TS ISDN PRA; IDA TS BISDN; IDA TS-PSTN; IDA TS ACLIP; IDA TS CM |
| Hong Kong – Telecom | HKCA 2011; HKCA 2012; HKCA 2013; HKCA 2014; HKCA 2015; HKCA 2017; HKCA 2018; HKCA 2019; HKCA 2022; HKCA 2023; HKCA 2024; HKCA 2026; HKCA 2027; HKCA 2028; HKCA 2029; HKCA 2030; HKCA 2031; HKCA 2032; HKCA 2033 |
| Vietnam – Telecom | QCVN 10:2010/BTTTT; QCVN 19:2010/BTTTT; TCN 68-189:2000; QCVN 18:2010/BTTTT; TCVN 7317:2003 (CISPR 24:1997); QCVN 12:2010/BTTTT; QCVN 13:2010/BTTTT; QCVN 55:2011/BTTTT; QCVN 15:2010/BTTTT |
| Korea – Telecom | Presidential Decree 21098; RRA Public Notification 2010-36; RRA Public Notification 2009-38; RRA Announce 2011-2; Annex 1 (RRA Announce 2011-2); Annex 3 (RRA Announce 2011-2); Annex 5 (RRA Announce 2011-2); Annex 6 (RRA Announce 2011-2) |
| | 3 |

(A2LA Cert. No. 2742.01) 09/19/2012

Peter Mbye Page 6 of 8

| Test Technology: | Test Method(s): |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| China – Telecom | YD/T 514-1:98; YD/T 1277.1-2003; GB/T 17904.1-1999; GB/T 17904.2-1999; GB/T 17154.1-1997; GB/T 17154.2-1997; YD/T1091-2000; YD/T1006-1999; GB/T 17789-1999 |
| Taiwan – Telecom | PSTN01:2007; ADSL01:08; ID0002:2007; IS6100: 93 |
| Japan – Telecom | JATE Blue Book, Green Book; Ministerial Ordinance of the Ministry of Posts and Telecommunications No. 31 of April 1, 1985 (last amended on March 22 2004); Ordinance Concerning Technical Conditions Compliance Approval etc. of Terminal Equipment (amended by the Ministerial Ordinance of the MIC No.92 of October 25, 2010) and Ordinance Concerning Terminal Facilities etc. (amended by the Ministerial Ordinance of the MIC No. 91 of October 25, 2010) |
| South Africa – Telecom | DPT-TE-001; TE-002; TE-003; TE-004; TE-005; TE-006; TE-007; TE-008; TE-009; TE-010; TE-012 (telephone interface); TE-013 (telephone interface); TE-014; TE-015; TE-018; SWS-001; SWS-002; SWS-003; SWS-004; SWS-005; SWS-006; SWS-007; SWS-008; SWS-009; SWS-010 |
| Israel – Telecom | Israel MoC Spe. 23/96 |
| Mexico – Telecom | NOM-151-SCT1-1999; NOM-152-SCT1-1999 |
| Argentina – Telecom | CNC-ST2-44-01 |
| Brazil – Telecom | Resolution 392-2005 |
| International Telecom Union | ITU-T-G,703:01; ITU-T-G.823:93; ITU-T G.824; ITU-T G.825; ITU-T-G.991.2; ITU-T-G.992.1; ITU-T-G.992.3; ITU-T-G.992.5; ITU-T-G.993.1 |
| Product Safety | IEC 60950-1; EN 60950-1; UL 60950-1; IEC 60601-1-1; CAN/CSA 22.2 NO. 60950-1-03; SS-EN 60950-1; AS/NZ 60950-1, (voltage surge testing up to 6kV, excluding Annex A, H, and Y); CNS 14336, CNS 14408; GB4943; President Notice 20664; RRA Public Notification 2011-14; RRA Announce 2011-3; Annex 1(RRA Announce 2011-3); QCVN 22:2010/BTTTT; SABS IEC 60950; IEC/EN 61558; IEC/EN 61558-2-7; EN 62115; IEC 60215; EN 60958; EN 60598; IEC 215 (1987) + A1 (1992) + A2 (1994) |
| Japan - Radio | ARIB STD-T81; ARIB STD-T66; RCR STD-1; RCR STD-29; ARIB STD-T94 Fascicle 1; ARIB STD-T90; ARIB STD-T89; RCR STD-33 |
| SAR & HAC | IEEE P1528:2003 + Ad1; IEEE 1528A:2005; FCC OET Bulletin 65 Supplement C; FCC OET Bulletin 65; ANSI C95 ANSI C63.19; FCC 47 CFR 20.19; H46-2/99-273E; EN 50360; EN 50361; IEC62209-1; IEC 62209-2; EN 50371; EN 50383; EN 50357; EN 50364; |

(A2LA Cert. No. 2742.01) 09/19/2012

Peter Mbye Page 7 of 8

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 33 of 50 www.siemic.com

| SAR & HAC (cont'd) KCC Public Notification 2009-27; RRA Public Notification 2010-45; KCC Public Notification 2012-2;CNS 14958-1; NZS 2772.1; Resolution N 533; AS/NZS 2772.2:2011 | CNS 14959; | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--|
| Selection and the selection of the selec | | |
| Japan – Notification No. 88 of MIC 2004 | | |
| Table No 13 CB Radio | | |
| Table No 21 Cordless Telephone | | |
| Table Nos 22-1 thru 22-17 Low Power Radio Equipment | | |
| Table No 36 Low Power Security System | | |
| Table No 43 Low Power Data Communication in the 2.4 GHz | : Band | |
| Table No 44 Low Power Data Communication in the 2.4 GHz | Band Band | |
| Table No 45 Low Power Data Communication in the 5.2, 5.3, | 5.6 GHz Bands | |
| Table No 46 Low Power Data Communication in the 25 and 2 | 7 GHz Bands | |
| Table No 47 Base Station for 5 GHz Band Wireless Access S | Base Station for 5 GHz Band Wireless Access System | |
| Table No 47 Base Station for 5 GHz Band Wireless Access S (low spurious type) | ystem | |
| Table No 47 Land Mobile Relay for 5 GHz Band Wireless Ac (limited for use in special zones) | cess System | |
| Table No 47 Land Mobile Relay for 5 GHz Band Wireless Ac (limited for use in special zones, low spurious ty | | |
| Table No 47 Land Mobile Relay for 5 GHz Band Wireless Ac | | |
| Table No 47 Land Mobile Relay for 5 GHz Band Wireless Ac (low spurious type) | | |
| Table No 47 Land Mobile Relay for 5 GHz Band Wireless Ac (low power type) | ccess System | |
| Table No 50 Digital Cordless Telephone | | |
| Table No 50 PHS Base Station | | |
| Table No 50 PHS Land Mobile Station | | |
| Table No 50 PHS Relay Station | | |
| Table No 50 PHS Test Station | | |
| Table No 64 Mobile Station for Dedicated Short Range Comm | nunication Systems | |
| Table No 64 Base Station for Dedicated Short Range Commu | | |
| Table No 64 Test Station for Dedicated Short Range Commun | nication Systems | |
| Table No 70 UWB (Ultra Wide Band) Radio System | | |

^{*}Limitations for listed standards are indicated by italics and Scope excludes protocol sections of applicable standards.

Peter Mhye Page 8 of 8

(A2LA Cert. No. 2742.01) 09/19/2012

Serial# Issue Date SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0



American Association for Laboratory Accreditation

Accredited Product Certification Body

SIEMIC, INC.

Milpitas, CA for technical competence as a

Product Certification Body

This product certification body is accredited in accordance with the recognized International Standard ISO/IEC Guide 65:1996 General requirements for bodies operating product certification systems. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.

Presented this 19th day of September 2012.

President & CEO For the Accreditation Council Certificate Number 2742,02 Valid to September 30, 2014

For the product certification schemes to which this accreditation applies, please refer to the organization's Product Certification Scope of Accreditation



SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0

Dec 16th 2012 35 of 50 www.siemic.com



American Association for Laboratory Accreditation

Certificate Number: 2742.02

SCOPE OF ACCREDITATION TO ISO/IEC GUIDE 65:1996

SIEMIC, INC.
775 Montague Expressway
Milpitas, CA 95035
Mr. Snell Leong (Authorized Representative) Phone: 408 526 1188
www.siemic.com

PRODUCT CERTIFICATION CONFORMITY ASSESSMENT BODY (CAB)

Valid to: September 30, 2014

In recognition of the successful completion of the A2LA Certification Body Accreditation Program evaluation, including the US Federal Communications Commission (FCC), Industry Canada (IC), Singapore (IDA), Hong Kong (OFCA) and Japan (MIC) requirements for the indicated types of product certifications, accreditation is granted to this organization to certify products in accordance with the following product certification schemes:

Economy: Scope:

Federal Communication Commission - (FCC)

Unlicensed Radio Frequency Devices A1, A2, A3, A4
Licensed Radio Frequency Devices B1, B2, B3, B4
Telephone Terminal Equipment C

*Please refer to FCC TCB Program Roles and Responsibilities, released January 6, 2011, detailing scopes, roles and responsibilities. TCB Program Roles and Responsibilities

Industry Canada - (IC)

Radio Scope 1-Licence-Exempt Radio Frequency Devices;

Scope 2-Licensed Personal Mobile Radio Services; Scope 3-Licensed General Mobile & Fixed Radio

Services;

Scope 4-Licensed Maritime & Aviation Radio

Services;

Scope 5-Licensed Fixed Microwave Radio Services;

*Please refer to Industry Canada (IC) website at: http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf09888.html

(A2LA Cert. No. 2742.02) 09/19/2012

Page 1 of 2

Peter Mhyer

5301 Buckeystown Pike, Suite 350 | Frederick, Maryland 21704-8373 | Phone: 301 644 3248 | Fax: 301 662 2974 | www.A2LA.org

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012

36 of 50 www.siemic.com

IDA - Singapore

Line Terminal Equipment All Technical Specifications for Line Terminal

Equipment - Table 1 of IDA MRA Recognition

Scheme: 2011, Annex 2

Radio-Communication Equipment All Technical Specifications for Radio-Communication

Equipment - Table 2 of IDA MRA Recognition

Scheme: 2011, Annex 2

*Please refer to Info-Communication Development Authority (iDA) Singapore website at: http://www.ida.gov.sg/doc/Policies%20and%20Regulation/Policies_and_Regulation_Level2/20060609145118. MRARecScheme.pdf

OFCA - Hong Kong

Radio Equipment HKCA 1001, 1002, 1003, 1004, 1005, 1006, 1007,

1008, 1010, 1015, 1016, 1019, 1020, 1022, 1026, 1027, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1052,

1053, 1054, 1056, 1057, 1061

Fixed Network Equipment HKCA 2001, 2005, 2011, 2012, 2013, 2014, 2015,

2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2040, 2041, 2102, 2103, 2104, 2108,

2201, 2202, 2203, 2204

MIC - Japan

Telecommunications Business Law Scope A1 - Terminal Equipment for the Purpose of

(Terminal Equipment) Calls

Radio Law Scope B1 - Specified Radio Equipment specified in, (Radio Equipment) Article 38-2-2, paragraph 1, item 1 of the Radio Law

Peter Mhyer

^{*}Please refer to the Office of the Communications Authority's website at: Radio Equipment Specifications (HKCA 10XX)

^{*}Please refer to the Office of the Communications Authority's website at: Fixed Network Equipment Specifications (HKCA 2XXX)

www.siemic.com

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 37 of 50

SIEMIC ACCREDITATION DETAILS: FCC Test Site Registration No. 881796

FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division 7435 Oakland Mills Road Columbia, MD 21046

August 03, 2012

Registration Number: 881796

SIEMIC Labs 775 Montague Expressway,

Milpitas, CA 95035

Attention: Leslie BAI

Re: Measurement facility located at 775 Montague Expressway, Milpitas, CA 95035

Anechoic chamber (10 meters) Date of Listing: August 03, 2012

Dear Sir or Madam

Your request for registration of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC rules. The information has, therefore, been placed on file and the name of your organization added to the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website www.fcc.gov under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,

Katie Hawkins Electronics Engineer

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 38 of 50

SIEMIC ACCREDITATION DETAILS: Industry of Canada CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

March 4, 2009

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by Industry Canada (IC), under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: SIEMIC, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131 USA

Identification No.: US0160

Recognized Scope: CS-03 Part I, II, V, VI, VII and VIII

You may submit test data to IC to verify that the equipment to be imported into Canada satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. Please contact Ms. Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov if you have any questions.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

Standards Services Division

David = Alda

Enclosure

cc: CAB Program Manager





www.siemic.com

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 39 of 50

SIEMIC ACCREDITATION DETAILS: Industry of Canada Test Site Registration No. 4842-1

141

Industry Canada Industrie

July 03, 2012

OUR FILE: 46405-4842 Submission No: 157820

Siemic Inc. 775 Montague Expressway Milpitas, CA, 95035 United States

Attention:

Dear Sir/Madame: Snell Leong

The Bureau has received your application for the renewal of 3/10m alternative test site. Be advised that the information received was satisfactory to Industry Canada. The following number(s) is now associated to the site(s) for which registration / renewal was sought (Site# 4842D-2). Please reference the appropriate site number in the body of test reports containing measurements performed on the site. In addition, please keep for your records the following information;

- The company address code associated to the site(s) located at the above address is: 4842D

Furthermore, to obtain or renew a unique site number, the applicant shall demonstrate that the site has been accredited to ANSI C63.4-2003 or later. A scope of accreditation indicating the accreditation by a recognized accreditation body to ANSI C63.4-2003 or later shall be accepted. Please indicate in a letter the previous assigned site number if applicable and the type of site (example: 3 metre OATS or 3 metre chamber). If the test facility is not accredited to ANSI C63.4-2003 or later, the test facility shall submit test data demonstrating full compliance with the ANSI standard. The Bureau will evaluate the filing to determine if recognition shall be granted.

The frequency for re-validation of the test site and the information that is required to be filed or retained by the testing party shall comply with the requirements established by the accrediting organization. However, in all cases, test site re-validation shall occur on an interval not to exceed three years. There is no fee or form associated with an OATS filing. OATS submissions are encouraged to be submitted electronically to the Bureau using the following URL;

http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h_tt00052e.html.

If you have any questions, you may contact the Bureau by e-mail at certification.bureau@ic.gc.ca Please reference our file and submission number above for all correspondence.

Yours sincerely.

Dalwinder Gill For: Wireless Laboratory Manager

For Wireless Laboratory Manager
Certification and Engineering Bureau
3011 Carling Ave., Building 94
P.O. Box 11490, Station "H"
Ottawa, Ontario. 82H 882
Email: dalwinder gall@icg ca
Tel. No. (813) 998-8363
Fax. No. (613) 990-4752

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 40 of 50

SIEMIC ACCREDITATION DETAILS: FCC DOC CAB Recognition: US1109

FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division 7435 Oakland Mills Road Columbia, MD 21046

August 28, 2008

Siemic Laboratories 2206 Ringwood Ave., San Jose, CA 95131

Attention:

Leslie Bai

Re:

Accreditation of Siemic Laboratories

Designation Number: US1109 Test Firm Registration #: 540430

Dear Sir or Madam:

We have been notified by American Association for Laboratory Accreditation that Siemic Laboratories has been accredited as a Conformity Assessment Body (CAB).

At this time Siemic Laboratories is hereby designated to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Parts 15 and 18 of the Commission's Rules.

This designation will expire upon expiration of the accreditation or notification of withdrawal of designation.

Sincerely,

George Tannahill
Electronics Engineer

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 41 of 50 www.siemic.com

SIEMIC ACCREDITATION DETAILS: Australia CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

November 20, 2008

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Australian Communications and Media Authority (ACMA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: Siemic, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131

Identification No.: US0160

Recognized Scope: EMC: AS/NZS 4251.1 (until 5/31/2009), AS/NZS 4251.2 (until 5/31/2009),

AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR 22, AS/NZS

61000.6.3, AS/NZS 61000.6.4

Radiocommunications: 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/NZS 60950.1

You may submit test data to ACMA to verify that the equipment to be imported into Australia satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements. Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. Please contact Ms. Ramona Saar, at (301) 975-5521 or ramona.saar@nist.gov if you have questions.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

Standards Services Division

David T. alder

Enclosure

Snell Leong, Siemic, Inc.; Ramona Saar, NIST



SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012

42 of 50 www.siemic.com

SIEMIC ACCREDITATION DETAILS: Korea CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

December 6, 2011

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory's recognition by the Radio Research Agency (RRA) Korea Communications Commission (KCC) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA) has been updated. The pertinent information about your laboratory's designation is as follows:

CAB Name: SIEMIC, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131

Identification No.: US0160

Current Scope: EMI: KCC Notice 2008-39; RRA Public Notification 2011-5; KN22

EMS: KCC Notice 2008-38; RRA Public Notification 2011-6, KN24

Updated Scope: EMI: RRA Public Notification 2011-18; RRA Announce 2010-5; KN 11; KN 13;

KN 14-1; KN 22; KN 41; KN50; KN15; KN19; KN60; KN16-1-1; KN16-1-2; KN16-1-3; KN16-1-4; KN16-1-5; KN16-2-1; KN16-2-2; KN 16-2-3; KN 16-2-4; EMS: RRA Public Notification 2011-17; RRA Announce 2010-6; KN24; KN 61000-4-2.

-4-3, -4-4, -4-5, -4-6, -4-8, -4-11; KN60101-1-2, KN20; KN41, KN51; RF: KCC Public Notification 2011-31; KCC Public Notification 2011-10;

RRA Public Notification 2010-46; KN301-489-1; KN301-489-07; KN301-489-17; KN

301-489-24

SAR: KCC Public Notification 2009-27; RRA Public Notification 2010-45; KCC

Public Notification 2011-10

TELECOM: RRA Public Notification 2010-36; RRA Public Notification 2009-38

You may submit test data to RRA/KCC to verify that the equipment to be imported into Korea satisfies the applicable requirements. The designation of your organization will remain in force as long as the accreditation for the designated scope remains valid and complies with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. If you have any questions please, contact me at (301) 975-5521 or via email at ramona.saar@nist.gov.

Sincerely.

Ramona Saar

Standards Services Group

amona Jaan

Enclosure





SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 43 of 50

www.siemic.com

SIEMIC ACCREDITATION DETAILS: Taiwan BSMI Accreditation No. SL2-IN-E-1130R



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gednerburg, Maryland 20895

May 3, 2006

Mr. Leslie Bai SIEMIC Laboratories 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bui:

I am pleased to inform you that your laboratory has been recognized by the Chinese Taipei's Bureau of Standards, Metrology, and Inspection (BSMI) under the Asia Pacific Economic Cooperation (APEC) Mutual Recognition Arrangement (MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. You may submit test data to BSMI to verify that the equipment to be imported into Chinese Taipei satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designation information is as follows:

BSMI number: SL2-IN-E-1130R (Must be applied to the test reports)

- U.S Identification No: US0160
- Scope of Designation: CNS 13438
- Authorized signatory: Mr. Leslie Bai

Pand of acce

The names of all recognized CABs will be posted on the NIST website at http://ts.nist.gov/mra. If you have any questions, please contact Mr. Dhillon at 301-975-5521. We appreciate your continued interest in our international conformity assessment activities.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

ee: Jogindar Dhillon



SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 44 of 50

SIEMIC ACCREDITATION DETAILS: Taiwan NCC CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

April 25, 2011

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwwod Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the National Communications Commission (NCC) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about the laboratory's designation is as follows:

CAB Name: SIEMIC, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131

Identification No.: US0160

Previous Scope: LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS 14336, PLMN07

Current Scope: LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS 14336, PLMN07, PLMN01

and PLMN08

You may submit test data to NCC to verify that the equipment to be imported into Chinese Taipei satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov.

Sincerely,

David F. Alderman Standards Services Group

David & alder

Enclosure

cc: Ramona Saar

NIST

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0

45 of 50 www.siemic.com

SIEMIC ACCREDITATION DETAILS: Vietnam CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

July 11, 2012

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory continues to be recognized by Vietnam's Ministry of Information and Communication (MIC) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). MIC has updated your scope of recognition. The pertinent information about the continued recognition is as follows:

CAB Name:

SIEMIC, Inc.

Physical Location:

2206 Ringwood Avenue, San Jose, CA 95131

Identification No.:

US0160

Current Scope:

TCN68-188, TCN68-190, TCN68-193, TCN68-196, TCN68-143, TCN68-192, TCN68-189, TCN68-221, TCN68-222, TCN68-223, TCN68-245, TCN68-242

TCN68-189, TCN68-221, TCN68-222, TCN68-223, TCN68-245, TCN68-242, TCN68-243, TCN68-246, TCVN 7189

Updated Scope:

QCVN 19:2010/BTTTT, QCVN 22:2010/BTTTT, TCVN 7189:2009, TCVN

7317:2003, QCVN 10:2010/BTTTT, QCVN 12:2010/BTTTT, QCVN 3:2010/BTTTT

QCVN 15:2010/BTTTT, QCVN 11:2010/BTTTT, QCVN 54:2011/BTTTT, QCVN 55:2011/BTTTT, QCVN 18:2010/BTTTT, QCVN 17:2010/BTTTT

You may submit test data to MIC to verify that the equipment to be imported into Vietnam satisfies the applicable requirements. Please note that your recognition from Vietnam will expire on September 30, 2012. To continue the recognition beyond this date, it will be necessary to submit to NIST the updated ISO/IEC 17025 Scope and Certification of Accreditation as soon as it is reissued during your next accreditation renewal period, NIST will then submit the updated information to MIC so that the recognition can be extended.

Recognized CABs are listed on the NIST website at http://gsi.nist.gov/global/index.cfm/L.1-4/L.2-16/L.3-90/A-380. If you have any questions please contact Ramona Saar via email at ramona.saar@nist.gov or phone at (301) 975-5521.

Sincerely,

David F. Alderman Standards Services Group

David F. alderman

Enclosure

cc: Ramona Saar

NIST



SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012

46 of 50 www.siemic.com

SIEMIC ACCREDITATION DETAILS: Mexico NOM Recognition



EAMARA NACIONAL DE LA REUSTRIA ELECTROMERA DE TEL POOMUNICACIONES E REPORMETICA

Laboratorio Valentín V. Rivero

México D.F. a 18 de octubre de 2006.

LESLIE BAI DIRECTOR OF CERTIFICATION SIEMIC LABORATORIES, INC. ACCESSING GLOBAL MARKETS PRESENTE

En contestación a su escrito de fecha 5 de septiembre del año en curso, le comento que estamos muy interesados en su intención de firmar un Acuerdo de Reconocimiento Mutuo, para lo cual adjunto a este escrito ericontrara el Acuerdo en idioma ingles y español prellenado de los cuales le pido sea revisado y en su caso corregido, para que si esta de ecuerdo poder firmado para mandado con las autoridades Mexicanas para su visto bueno y así poder ejercer dicho ecuerdo.

Aproyecho este escrito para mencionarle que nuestro intermediano gestor será la empresa factel de México. S. A. de C. V., empresa que ha colaborado durante mucho tiempo con nosotros en lo relacionado a la evaluación de la conformidad y que quenta. con amplia experiencia en la gastoria de la cartificación de cumplimiento con Normas. Oficiales Mexicanas de producto en México.

Me despido de ustad enviándole un cordial saludo y esperando sus comentanos al Acuerdo que nos ocupa

Atentamente:

Ing. Fausting Somez González Gerente Menico del Laboratorio de GANIEM

Hardrens Condeta certo Mosco, D.F. Ser Sibis 6000 con 12 Annie Par 5264 0000

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 www.siemic.com

SIEMIC ACCREDITATION DETAILS: Hong Kong OFTA CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

December 8, 2008

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Office of the Telecommunications Authority (OFTA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: SIEMIC, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, California 95131 USA

Identification No.: US0160

Recognized Scope: Radio: HKTA 1002, 1007, 1008, 1010, 1015, 1016, 1020, 1022, 1026,

1027, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1039, 1041,

1042, 1043, 1044, 1046, 1047, 1048, 1049, 1051

Telecom: HKTA 2011, 2012, 2013, 2014, 2017, 2018, 2022, 2024, 2026,

2027, 2028, 2029, 2030, 2031, 2032, 2033

You may submit test data to OFTA to verify that the equipment to be imported into Hong Kong satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov.

Sincerely.

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

Standards Services Division

David I alden

Enclosure

cc: Ramona Saar



www.siemic.com

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 48 of 50

SIEMIC ACCREDITATION DETAILS: Australia ACMA CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

November 20, 2008

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Australian Communications and Media Authority (ACMA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, **Phase I** Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: Siemic, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131

Identification No.: US0160

Recognized Scope: <u>EMC</u>: AS/NZS 4251.1 (until 5/31/2009), AS/NZS 4251.2 (until 5/31/2009),

AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR 22, AS/NZS

61000.6.3, AS/NZS 61000.6.4

Radiocommunications: 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

<u>Telecommunications</u>: 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/NZS 60950.1

You may submit test data to ACMA to verify that the equipment to be imported into Australia satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements. Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. Please contact Ms. Ramona Saar, at (301) 975-5521 or ramona.saar@nist.gov if you have questions.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

Standards Services Division

David T. alder

Enclosure

cc: Snell Leong, Siemic, Inc.; Ramona Saar, NIST

NST

www.siemic.com

SL12112001-ZBR-044_iMZ320_FCC 15.247(Spurious) Rev1.0 Dec 16th 2012 49 of 50

SIEMIC ACCREDITATION DETAILS: Australia NATA Recognition



Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

November 4 2008

Under Australian government legislation, the Australian Communications and Media Authority (ACMA) has determined the National Association of Testing Authorities, Australia (NATA) as an accreditation body as per Section 409(1) of the Telecommunications Act 1997 (Cth). Pursuant to Section 409(2) of the Telecommunications Act 1997 (Cth), I am pleased to advise that your laboratory has been determined as a Recognised Testing Authority (RTA).

This determination has been made on the basis of your accreditation by A2LA accreditation no. 2742.01 and the Mutual Recognition Agreement between NATA and A2LA. It is effective from 11 July 2008. RTA status applies only to the following standards and is contingent upon their continued inclusion in your laboratory's scope of accreditation.

AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S041 and AS/ACIF S043.2

As an RTA, your laboratory has the following obligations:

- 1. the laboratory shall continue to meet all of the accreditation criteria of A2LA;
- the authorised representative of the laboratory shall notify NATA of changes to the staff or operations of the laboratory which would affect the performance of the tests for which the laboratory has been determined;
- 3. compliance of equipment shall be reported on test reports bearing the A2LA logo/endorsement.

Current information on the Australian Communications and Media Authority and regulatory requirements for telecommunications products within Australia can be obtained from the ACMA's web-site at "http://www.acma.gov.au". Further information about NATA may be gained by visiting "http://www.nata.asn.au".

Please note that AS/ACIF S040 and New Zealand standards do not form part of the RTA scheme.

Your RTA listing will appear on the NATA website shortly.

Kind Regards

Chris Norton,
Senior Scientific Officer
Measurement Science and Technology
National Association of Testing Authorities (NATA)
71-73 Flemington Road
North Melbourne Vic 3051
Australia

Ph: +61 3 9329 1633 Fx: +61 3 9326 5148 E-Mail: <u>Christopher.Norton@nata.asn.au</u>

Internet: www.nata.asn.au



SIEMIC ACCREDITATION DETAILS: VCCI Radiated Test Site Registration No. A-0133

Certificate of VCCI Laboratory registration

| 1.1 Laboratory Info. | Company name (VCCI Membership No.) | SIEMIC Laboratories (3081) |
|-------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------|
| | Laboratory Name | SIEMIC Labs (Milpitas location) |
| | VCCI Laboratory registration No. | A-0133 |
| | VCCI Laboratory registration date | 09/21/2012 (mm/dd/yyyy) |
| | Registration expiration date | 09/30/2014 (mm/dd/yyyy) |
| | Country of Laboratory | USA |
| | ISO 17025 Accreditation body name | AZLA |
| | Accreditation No. | 2742.01 |
| | Accreditation valid to mm/dd/yyyy | 09/30/2014 (mm/dd/yyyy) |
| | Edition (year) of the VCCI rule indicated in the scope of accreditation (example: V-3 20xx.04) | Not described in Scope |
| | Zip code | 95035 |
| | Address | 775 Montague Expressway, Milpitas , CA 95035 USA |

