WGI Innovations LTD

ECHO ELECTRONIC CALL

Model: eR1 eR2

06 Sep 2010 Report No.: 1002826-FCC (This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

lex non

Nill yang

Alex Wang Compliance Engineer Will Yang Technical Manager

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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	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
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1 Executive Summary & EUT information

The purpose of this test programme was to demonstrate compliance of the WGI Innovations LTD, ECHO ELECTRONIC CALL, and model: eR1 eR2 against the current Stipulated Standards. The ECHO ELECTRONIC CALL have demonstrated compliance with the FCC 15.231:2009.

EUT Information

EUT Description

ECHO ELECTRONIC CALL

Model No Input Power Classification Per Stipulated Test Standard eR1 eR2 4.2VDC 80mA DSC

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	2 <u>TECHNICAL DETAILS</u>
Purpose	Compliance testing of ECHO ELECTRONIC CALL with stipulated standard
Applicant / Client	WGI Innovations LTD 602 Fountain Parkway Grand Prairie, TX, 75050
Manufacturer	Dongguan Southstar Electronics Limited F building , 3 Chengtian Rd, Mintian,Shatian Town, Dongguan, Guangdong
Laboratory performing the tests	SIEMIC Nanjing (China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel:+86(25)86730128/86730129 Fax:+86(25)86730127 Email:info@siemic.com
Test report reference number	1002826
Date EUT received	30 Aug 2010
Standard applied	FCC 15.231:2009
Dates of test (from – to)	30 Aug~06 Sep 2010
No of Units:	2
Equipment Category:	DSC
RF Operating Frequency (ies)	433.92MHz
Number of Channels :	1
Modulation :	ASK
FCC ID:	YTTER1ER2



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3 MODIFICATION

NONE



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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 Standard	Description	Pass / Fail
CFR 47 Part 15.231: 2008		
15.203	Antenna Requirement	Pass
15.207	Conducted Emissions Voltage	N/A
15.231(b)	Fundamental & Radiated Spurious Emission	Pass
15.231(c)	20dB & 99% Bandwidth	Pass
15.231(a)1	Deactivation	Pass

ANSI C63.4: 2003

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

Preliminary AC line and radiated emissions testing has been performed on all models, only worst case test result is presented in this test report.

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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.

The antenna is permanently attached to the device which meet the requirement.

50% 1019mbar

5.2 Conducted Emissions Voltage

Requirement:

	Conducted lir	nit (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.
- <u>Conducted Emissions Measurement Uncertainty</u> 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 ±3.5dB.
 Environmental Conditions Temperature 23°C
- 4. Environmental Conditions Temperature Relative Humidity Atmospheric Pressure
- 5. Test date : 30 Aug~06 Sep 2010 Tested By : Alex Wang

Test result: N/A (Batteries operated)

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12°C 51%

1009mbar

5.3 Occupied Bandwidth

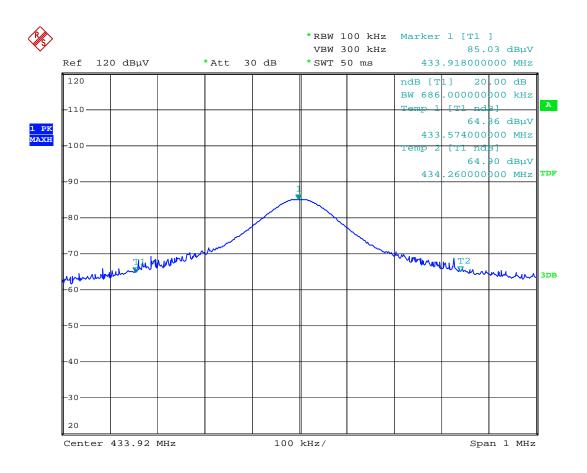
1. 20dB bandwidth was measured by conducted method using a spectrum analyzer.

Temperature

- 2. Environmental Conditions
- Relative Humidity
- Atmospheric Pressure
- 3. Test Date: 30 Aug~06 Sep 2010 Test By: Alex Wang

Test Result:

Fundamental Frequency	Measured 20dB Bandwidth	FCC 15.231 Limit	Result
(MHz)	(KHz)	(KHz)	
433.920MHz	686KHz	1084.80KHz	Pass



Date: 7.SEP.2010 03:55:00



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12°C

51%

1009mbar

5.4 Radiated Fundamental and Spurious Emission

- Radiated emissions were measured according to ANSI C63.4. The EUT was set 3 meter away from the measuring antenna. The loop antenna was positioned 1meter above the ground from the center of the loop. The measuring bandwidth was set to 10KHz. All possible modes of operation were investigated. Only the worst case emissions measured, 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.
- Sample Calculation: Corrected Amplitude=Raw Amplitude(dBuV/m)+ACF(dB)+Cable Loss(dB)-Distance Correction Factor. Sample Calculation:

1) Corrected Amplitude= Raw Amplitude(dBuV/m)+ACF(dB)+Cable Loss(dB)-Distance Correction Factor

- 2)Pulse average reading=Peak reading+20log(Duty cycle)
- 4. 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 only3m & 10m) is +5.6/-4.5dB(for EUTs<0.5m×0.5m×0.5m).In range of 1-40GHz) is ±3.6dB.</p>
- 5. Environmental Conditions Temperature Relative Humidity Atmospheric Pressure
 6. Test date : 30 Aug~06 Sep 2010 Tested By : Alex Wang

Standard Requirement:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750	125 to 375
174-260	3750	375
260-470	3750-12500	375 to 1250
Above 470	12500	1250

Note: All 3 axes have been investigated. Only worst case is presented in the test report.

Test Result: Pass

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Fundamental Measurement @ 433.732MHz @3 Meter FCC 15.231(a)

Frequency (MHz)	Reading (dBuV/m)	Azimuth	Polarity	Height(m)	Factors(dB)	FCC 15.231(a) Limit (dBuV)	Margin(dB)	Comments
433.983	85.03	15	V	1.25	27.85	100.83	-15.8	Peak
433.983	78.15	15	V	1.25	27.85	80.83	-2.68	Ave
433.983	84.55	23	Н	1.76	27.85	100.83	-16.28	Peak
433.983	77.67	23	Н	1.76	27.85	80.83	-3.16	Ave

Spurious Emissions (<1GHz) Measurement @ 3 Meter FCC 15.231(a)

Frequency (MHz)	Reading (dBuV/m)	Azimuth	Polarity	Height(m)	Factors(dB)	FCC 15.231(a) Limit (dBuV)	Margin(dB)	Comments
867.966	65.20	41	V	1.48	21.15	80.83	-15.63	Peak
867.966	58.32	41	V	1.48	21.15	60.83	-2.51	Ave
867.966	64.85	346	Н	1.67	21.15	80.83	-15.98	Peak
867.966	57.97	346	Н	1.67	21.15	60.83	-2.86	Ave

Note: Duty cycle is 45.29%.A-6.88dB correction was used to determine the average level from the peak reading.

Frequency	Direction	Height	Polar	Antenna	Cable	Amplifier	Reading	FCC		
GU	5		** /* *	Loss	Loss			15.231		G
GHz	Degree	Meter	H/V	(dB)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin	Comments
1.3	15	1.36	Н	25.33	5.2	55	62.89	80.83	-17.94	Peak
1.3	15	1.36	Н	25.33	5.2	55	53.14	60.83	-7.69	Avg
1.74	24	1.42	Н	25.16	5.5	55	61.74	80.83	-19.09	Peak
1.74	24	1.42	Н	25.16	5.5	55	51.99	60.83	-8.84	Avg
2.17	10	1.26	Н	24.52	6.1	55	59.91	80.83	-20.92	Peak
2.17	10	1.26	Η	24.52	6.1	55	50.16	60.83	-10.67	Avg
2.6	3	1.15	Η	24.24	6.3	55	58.24	80.83	-22.59	Peak
2.6	3	1.15	Η	24.24	6.3	55	48.49	60.83	-12.34	Avg
3.04	26	1.08	Η	23.90	6.7	55	57.12	80.83	-23.71	Peak
3.04	26	1.08	Н	23.90	6.7	55	47.37	60.83	-13.46	Avg
3.47	19	1.32	Н	28.51	6.9	55	56.01	80.83	-24.82	Peak
3.47	19	1.32	Н	28.51	6.9	55	46.26	60.83	-14.57	Avg
3.91	27	1.28	Н	31.43	7.1	55	52.88	80.83	-27.95	Peak
3.91	27	1.28	Н	31.43	7.1	55	43.13	60.83	-17.7	Avg
4.34	15	1.37	Н	33.27	7.5	55	47.6	80.83	-33.23	Peak
4.34	15	1.37	Н	33.27	7.5	55	37.85	60.83	-22.98	Avg
1.3	348	1.20	V	25.33	5.2	55	63.61	80.83	-17.22	Peak
1.3	348	1.20	V	25.33	5.2	55	53.86	60.83	-6.97	Avg
1.74	11	1.34	V	25.16	5.5	55	62.64	80.83	-18.19	Peak
1.74	11	1.34	V	25.16	5.5	55	52.89	60.83	-7.94	Avg
2.17	20	1.06	V	24.52	6.1	55	62.38	80.83	-18.45	Peak
2.17	20	1.06	V	24.52	6.1	55	52.63	60.83	-8.2	Avg
2.6	6	1.20	V	24.24	6.3	55	59.36	80.83	-21.47	Peak
2.6	6	1.20	V	24.24	6.3	55	49.61	60.83	-11.22	Avg
3.04	32	1.18	V	23.90	6.7	55	57.67	80.83	-23.16	Peak
3.04	32	1.18	V	23.90	6.7	55	47.92	60.83	-12.91	Avg
3.47	29	1.07	V	28.51	6.9	55	55.56	80.83	-25.27	Peak
3.47	29	1.07	V	28.51	6.9	55	45.81	60.83	-15.02	Avg
3.91	41	1.07	V	31.43	7.1	55	53	80.83	-27.83	Peak
3.91	41	1.07	V	31.43	7.1	55	43.25	60.83	-17.58	Avg
4.34	22	1.01	V	33.27	7.5	55	45.41	80.83	-35.42	Peak
4.34	22	1.01	V	33.27	7.5	55	35.66	60.83	-25.17	Avg

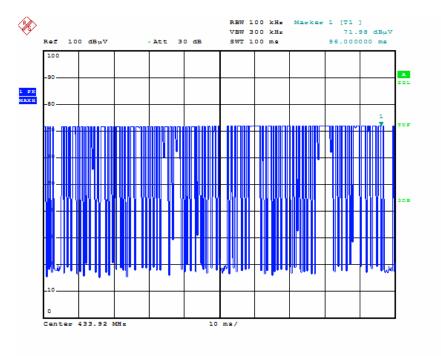
Spurious Emissions (>1GHz) Measurement @ 3 Meter FCC 15.231(a)

Note: Duty cycle is 45.29%.A-6.88dB correction was used to determine the average level from the peak reading.

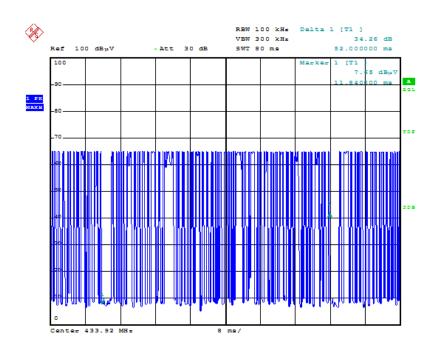


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Pulse Duty Cycle: Wide Pulse*64=32.768ms Narrow Pulse*53=13.576ms Average Duty Factor: 20*log(46.344/100)=-6.88dBi

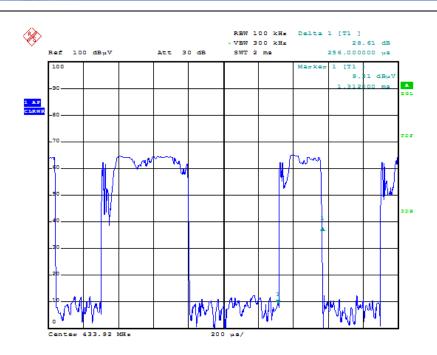


Date: 17.SEP.2010 03:42:20

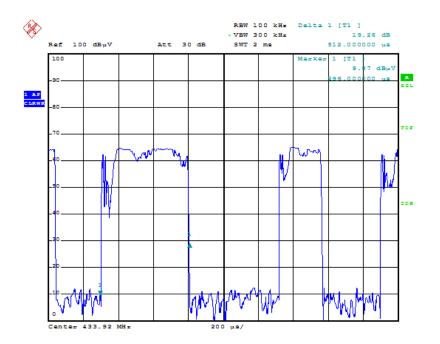


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Date: 7.SEP.2010 05:53:50



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12°C

51%

1009mbar

5.5 Deactivation

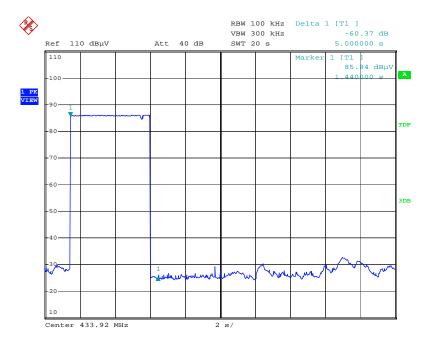
- Deactivation was measured by conducted method using a spectrum analyzer. 1.
- **Environmental Conditions** 2.
- **Relative Humidity** Atmospheric Pressure

Temperature

3. Test Data: 30 Aug~06 Sep 2010 Test By: Alex Wang

Standard requirement: 47 CFR §15.231 (a) **Release Time** <5 seconds

Test Result: Pass



Date: 16.SEP.2010 21:49:22



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Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Manufacturer	Model	CAL Due Date
Spectrum Analyzer	HP	8564 E	2011.04.26
EMI Receiver	Rohde & Schwarz	ESPI 3	2011.02.19
Antenna (30MHz~2GHz)	Sunol Sciences	JB1	2010.10.04
Horn Antenna (1~18GHz)	A-INFOMW	JXTXLB-10180	2010.11.18
Horn Antenna (1~18GHz)	N/A	N/A	2010.10.04
Pre-Amplifier(0.01 ~ 1.3GHz)	HP	8447F	2011.04.24
Pre-Amplifier(0.1 ~ 18GHz)	MITEQ	AMF-7D-00101800-30- 10P	2011.03.05
Horn Antenna (18~40GHz)	Com Power	AH-840	2011.05.21
Microwave Pre-Amp (18~40GHz)	Com Power	PA-840	2011.05.21



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Annex A.ii. **CONDUCTED EMISSIONS TEST DESCRIPTION**

Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B.
- 2. The power supply for the EUT was fed through a $50\Omega/50\mu$ H EUT LISN, connected to filtered mains.
- 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
- 4. All other supporting equipments were powered separately from another main supply.

Test Method

- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- 2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
- 3. High peaks, relative to the limit line, were then selected.
- 4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 KHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
- Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power). 5.

Sample Calculation Example

At 20 MHz	limit = 250 μ V = 47.96 dB μ V
Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB	
Q-P reading obtained directly from EMI Receiver = $40.00 \text{ dB}\mu\text{V}$ (Calibrated for system losses)	
Therefore, Q-P margin = 47.96 – 40.00 = 7.96	i.e. 7.96 dB below limit



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Annex A. iii RADIATED EMISSIONS TEST DESCRIPTION

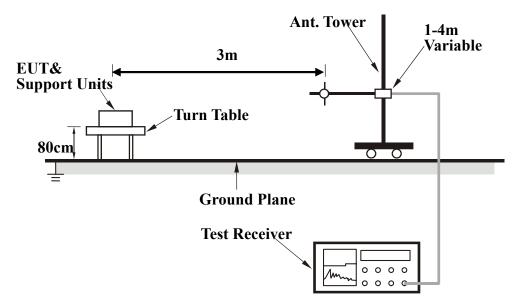
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 10th Harmonic, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS).

Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
- 2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
- 3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.





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Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.

2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.

3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.

2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.

3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.

4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from $0 \circ to 360 \circ$ with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.

5. Repeat step 4 until all frequencies need to be measured were complete.

6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

Peak = Reading + Corrected Factor

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any) And the average value is Average = Peak Value + Duty Factor or

Set RBW = 1MHz, VBW = 10Hz.

Note :

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.



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Annex B. EUT AND TEST SETUP PHOTOGRAPHS





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8 7 9 21 8 1 2 5 tunhudmehudunhudunhudunhudunhudun



1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 1 2

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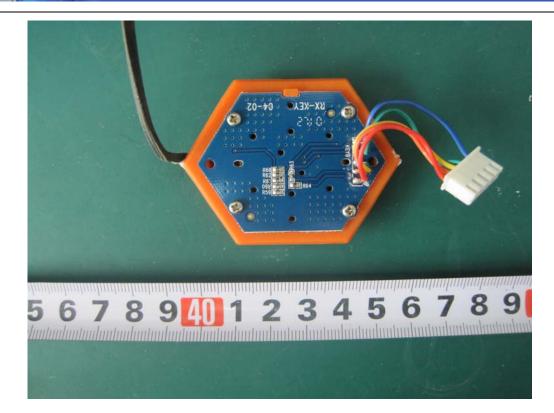
 Model:
 eR1 eR2

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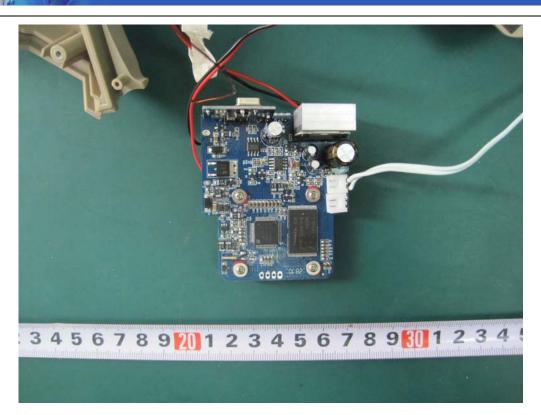


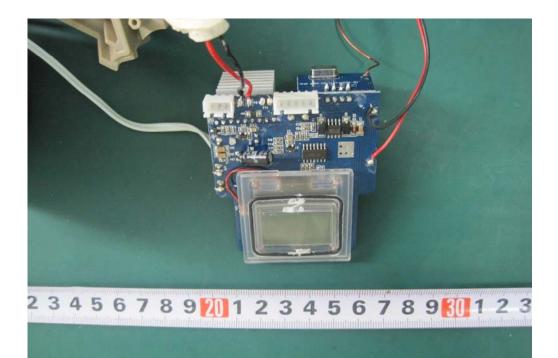


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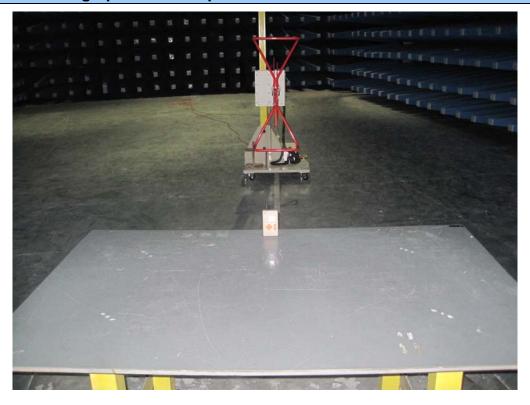


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Annex B.iii. Photograph: Test Setup Photo







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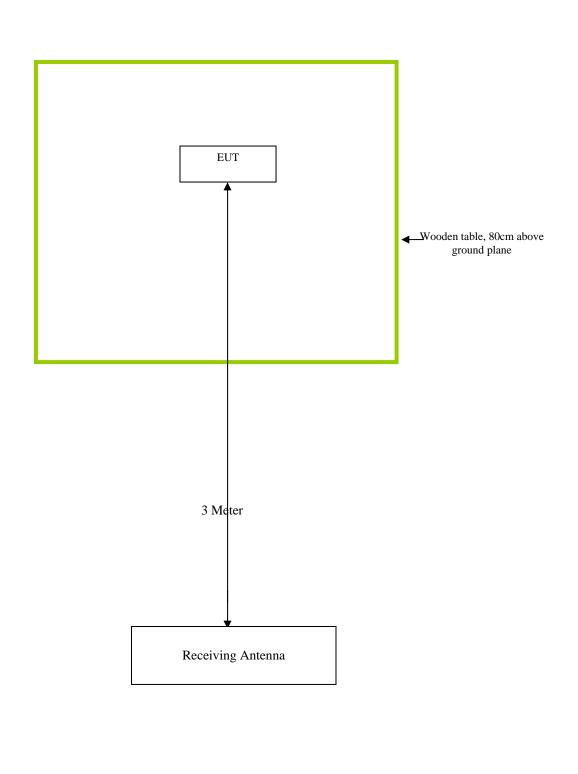
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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



Block Configuration Diagram for Radiated Emission



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	TX mode is normal mode with full power.

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Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment

Title[.]

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Annex E. SIEMIC ACCREDITATION CERTIFICATES

SIEMIC ACREDITATION DETAILS: A2LA Certificate Number: 2742.01

THE AMERICAN ASSOCIATION FOR ac-mr/ LABORATORY ACCREDITATION "hintow ACCREDITED LABORATORY A2LA has accredited SIEMIC LABORATORIES San Jose, 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 18 June 2005). SEAL SOLUTION OF CONTRACT OF C Presented this 11th day of July 2008. Ins leta President President For the Accreditation Council Certificate Number 2742.01 Valid to September 30, 2010 For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation THE AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION ACCREDITED PRODUCT CERTIFICATION BODY A2LA has accredited SIEMIC INC. San Jose, 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 for a Telecommunications Certification Body (TCB) meeting FCC (U.S.), IDA (Singapore) and IC (Canada) requirements. Seddy (ICB) meeting FCC Presented this 9th day of January 2009. II. President For the Accreditation Council Certificate Number: 2742.02 Valid to: September 30, 2010 For the product certification schemes to which this accreditation applies, please refer to the certification body's Scope of Accreditation

Title⁻

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SIEMIC ACCREDITATION DETAILS: Japan RFT Accreditation No. MRF050927



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SIEMIC ACCREDITATION DETAILS: Korea CAB from NIST: US0160



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

October 1, 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 Radio Research Agency (RRA) Korea Communications Commission (KCC) 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: Physical Location: Identification No .: Recognized Scope: SIEMIC, Inc. 2206 Ringwood Avenue, San Jose, CA 95131 **US0160** 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, KN-61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS Wireless: 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 Wired: 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

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 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,

Paris To alde

David F. Alderman Group Leader, Standards Coordination and Conformity Group Standards Services Division

Enclosure

cc: Ramona Saar



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То

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



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

May 3, 2006

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

Dear Mr. Bai:

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 designated scope remains valid and comply with the designation requirements. The pertinent designation information is as follows:

BSMI number:

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

U.S Identification No:

CNS 13438 Scope of Designation:

Mr. Leslie Bai Authorized signatory:

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,

Pand & deale

David F. Alderman Group Leader, Standards Coordination and Conformity Group

US0160

Jogindar Dhillon cc:



Title[.]

To:

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SIEMIC ACCREDITATION DETAILS: Taiwan NCC CAB ID: US0160



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

March 16, 2009

Mr. LeslieBai 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 National Communications Commission (NCC) for the requested scope expansion under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is 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: Physical Location: Identification No.: Current Scope: Additional Scope:

SIEMIC, Inc. 2206 Ringwood Avenue, San Jose, CA 95131 US0160 LP0002, PSTN01, ADSL01, ID0002, IS6100 and CNS 14336 PLMN07

You may submit test data to NCC to verify that the equipment to be imported into China 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,

12 acres Da

David F. Alderman Group Leader, Standards Coordination and Conformity Group Standards Services Division

Enclosure

cc: Ramona Saar



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SIEMIC ACCREDITATION DETAILS: Mexico NOM Recognition



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Telephone 電話: (852) 2961 6320

Fax No 圖文傳真: (852) 2838 5004

20 July 2005

E-mail 電郵地址:

SIEMIC ACCREDITATION DETAILS: Hong Kong OFTA Recognition No. D23/16V



Title[.]

То

Your Ref 來函檔號: Our Ref 本局檔號:

Mr. Leslie Bai Director of Certification, SIEMIC Laboratories 2206 Ringwood Avenue San Jose, California 95131 USA

Dear Mr. Bai,

Application of Recognised Testing Agency (RTA)

Referring your submission of 28 June 2005 in relation to the application of RTA, I am pleased to inform you that OFTA has appointed SIEMIC Laboratories (SIEMIC) as a Recognised Testing Agency (RTA) :

Please note that, under the Hong Kong Telecommunications Equipment Evaluation and Certification (HKTEC) Scheme, SIEMIC is authorized to conduct evaluation tests on telecommunications equipment against the following HKTA specifications :

> Scope of recognition (HKTA Specifications) : 1001, 1002, 1004, 1006, 1007, 1008 1010, 1015, 1016 1022, 1026, 1027, 1029 1030, 1031, 1032, 1033, 1034, 1035, 1039 1041, 1042, 1043, 1045, 1047, 1048 2001

You are requested to refer to and comply with the code of practice and guidelines for RTA as given in the Information Note OFTA I 411 "Recognised Testing Agency (RTA) for Conducting Evaluation Test of Telecommunications Equipment", from which can be downloaded OFTA's homepage at http://www.ofta.gov.hk/tec/information-notes.html.

If you have any queries, please do not hesitate to contact me.

Yours sincerely,

Ini

(K K Sin) for Director-General of Telecommunications

Office of the Telecommunications Authority 29/F Wu Chung House 213 Queen's Road East Wan Chai Hong Kong 電訊管理局 香港灣仔皇后大道東 213 號胡忠大廈 29 字樓

http://www.ofta.gov.hk

Title[.]

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SIEMIC ACCREDITATION DETAILS: OFTA CAB from NIST: 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.

Paris I. alden

David F. Alderman Group Leader, Standards Coordination and Conformity Group Standards Services Division

Enclosure

cc: Ramona Saar



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SIEMIC ACCREDITATION DETAILS: Australia NATA Recognition



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 \$043.2

As an RTA, your laboratory has the following obligations:

1. the laboratory shall continue to meet all of the accreditation criteria of A2LA; 2. 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;

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: Christopher Norton@nata.asn.au Internet: www.nata.asn.au