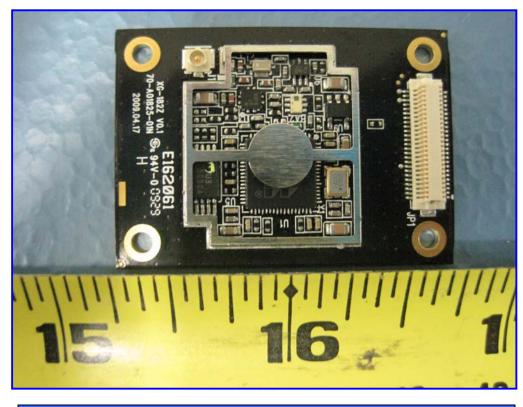
ZEBRA TECHNOLOGIES CORP

HOST PRINTER MODEL: P4T with Zcomax 802.11b/g radio module Model: XG-182Z

> Dec 17th 2010 Report No.: SL10082306-ZBR-063_FCC,IC Rev1.0 (This report supersedes SL10082306-ZBR-063_FCC,IC)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:				
David Thany	Bris			
David Zhang Test Engineer	Leslie Bai Engineering Reviewer			

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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



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1 Executive Summary & EUT information

The purpose of this test programme was to demonstrate compliance of the ZEBRA Technologies Corp, HOST PRINTER MODEL: P4T with Zcomax 802.11b/g radio module, and Model: XG-182Z against the current Stipulated Standards. The HOST PRINTER MODEL: P4T with Zcomax 802.11b/g radio module have demonstrated compliance with the FCC 15.247:2010 & IC RSS210 Issue 8: 2010.

EUT Information						
EUT Description	: Zebra Technologies will only use the XG-182Z radio within Zebra Host Printer, primarily Printer (P4T). The radio will be installed inside the product and will not be user accessible. The antenna is an internal antenna and will not be user accessible. 802.11b/g radios are designed to operate in the international ISM Band from 2.412 to 2.462 GHz.					
Model No Serial No	[:] XG-182Z : N/A					
Selidi INU	: N/A : Input : 100-240V~, 1.5A, 50-60Hz					
Input Power	Output : 12VDC, 4.16A Max (50W Max) Battery : 7.4VDC					
Classification Per Stipulated Test Standard	: Spread Spectrum System / Device					

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TECHNICAL DETAILS 2

Purpose	Compliance testing of P4T with Zcomax 802.11b/g radio modules with stipulated standard
Applicant / Client	ZEBRA Technologies Corp
Manufacturer	Zebra Technologies Corp 1001 Flynn Road Camarillo, CA 93012 USA
Laboratory performing the tests	SIEMIC Laboratories
Test report reference number	SL10082306-ZBR-063_FCC,IC Rev1.0
Date EUT received	Nov 29 th 2010
Standard applied	FCC 15.247:2010 & RSS 210 Issue 8: 2010
Dates of test (from – to)	Nov 29th 2010 - Dec 17th 2010
No of Units:	1
Equipment Category:	DTS
Trade Name:	ZEBRA Technologies Corp
Model :	XG-182Z
RF Operating Frequency (ies)	2412 – 2462 MHz
Number of Channels :	11
Modulation :	DSSS
FCC ID :	I28MD-CXLAN11G
IC ID :	3798B-CXLAN11G



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3 MODIFICATION

NONE



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TEST SUMMARY

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

Spread Spectrum System / Device

Test Results Summary

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

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

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

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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 chip antenna which is permanently attached to the device. Antenna maximum gain is 3.76dBi for 2412MHz – 2462MHz band.

Results: PASS

5.2 Conducted Emissions Voltage

Requirement:

	Conducted limit (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.
- 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 ±3.86dB.
 Environmental Conditions Temperature 23°C Relative Humidity 50%

	I Clative Humbily	JU /0
	Atmospheric Pressure	1019mbar
Test Date : Nov 29th 2010 - Dec	c 17th 2010	
Tested By :David Zhang		

Results: Pass

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80.0 70.0-60.0 50.0 Amplitude(dBuV) 40.0 30.0 بالمكادية ويستحدث وقاده أخلها i u 20.0-ار طائد آو آ 10.0-0.0--10.0-1.00 10.00 1 I 0.15 30.00 Frequency (MHz)

Quasi-Peak Limit

Average Limit

Frequency (MHz)	QP Value (dBµV)	Class B Limit (dB)	Pass / Fail	Margin (dB)	Avg Value (dBµV)	Class B Limit (dB)	Pass / Fail	Margin (dB)	Line
0.30	47.86	60.26	Pass	-12.40	34.83	50.26	Pass	-15.43	L
0.55	41.53	56.00	Pass	-14.47	27.98	46.00	Pass	-18.02	L
0.39	38.51	58.19	Pass	-19.68	29.56	48.19	Pass	-18.63	L
0.89	36.11	56.00	Pass	-19.89	25.46	46.00	Pass	-20.54	L
0.23	46.04	62.42	Pass	-16.38	36.92	52.42	Pass	-15.51	L
0.44	37.67	57.04	Pass	-19.37	25.78	47.04	Pass	-21.26	L

Phase Line Plot at 120VAC, 60Hz

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80.0 70.0-60.0-50.0-Amplitude(dBuV) 40.0 30.0 h i shinini si shini shini a t 20.0 فيشتخلنا أتألل وا 10.0-0.0--10.0-1.00 10.00 0.15 30.00 Frequency (MHz)

Quasi-Peak Limit

Average Limit

Frequency (MHz)	QP Value (dBµV)	Class B Limit (dB)	Pass / Fail	Margin (dB)	Avg Value (dBµV)	Class B Limit (dB)	Pass / Fail	Margin (dB)	Line
0.31	48.41	59.94	Pass	-11.52	37.21	49.94	Pass	-12.73	Ν
0.57	42.41	56.00	Pass	-13.59	28.65	46.00	Pass	-17.35	N
0.51	37.89	56.00	Pass	-18.11	24.83	46.00	Pass	-21.17	N
0.23	45.22	62.57	Pass	-17.35	35.12	52.57	Pass	-17.45	N
0.70	35.59	56.00	Pass	-20.41	21.41	46.00	Pass	-24.59	Ν
0.93	37.93	56.00	Pass	-18.07	23.57	46.00	Pass	-22.43	N

Neutral Line Plot at 120VAC, 60Hz

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5.3 6dB & 99% Occupied Bandwidth

1.	Conducted Measurement						
	EUT was set for low , mid, high channel with modulated mode and highest RF output power.						
	The spectrum analyzer was connected	ed to the antenna terminal.					
2	Environmental Conditions	Temperature	23°C				
		Relative Humidity	50%				
		Atmospheric Pressure	1019mbar				
3	Conducted Emissions Measurement	Uncertainty					
	All test measurements carried out are	traceable to national standards. The un	certainty of the measurement at a				
	confidence level of approximately 95%	% (in the case where distributions are nor	mal), with a coverage factor of 2, in the				
	range 30MHz – 40GHz is ±1.5dB.						
4	Test Date : Nov 29th 2010 - Dec 17th	2010					
	Tested By :David Zhang						

Requirement(s): 47 CFR §15.247(a)(1)

Procedures: The 6dB bandwidths were measured conducted using a spectrum analyzer at low, mid, and hi channels. 6 dB Bandwidth Limit: > 500 kHz.

Results: Pass

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5.4 Peak Spectral Density

1.	Conducted Measurement		
	EUT was set for low , mid, high cha	annel with modulated mode and highe	est RF output power.
	The spectrum analyzer was connect	cted to the antenna terminal.	
2	Conducted Emissions Measuremen	nt Uncertainty	
			The uncertainty of the measurement at a
		5% (in the case where distributions a	are normal), with a coverage factor of 2, in the
	range 30MHz – 40GHz is ±1.5dB.		
3	Environmental Conditions	Temperature	23°C
		Relative Humidity	50%
		Atmospheric Pressure	1019mbar
4	Test Date : Nov 29th 2010 - Dec 17	7th 2010	
	Tested By :David Zhang		

Standard Requirement: 47 CFR §15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission

Procedures: The Peak Spectral density measurement was taken conducted using a spectrum analyzer with average measurement method

RBW=3KHz, VBW > RBW, Sweep time auto

Test Result: Pass

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5.5 Peak Output Power

1.	Conducted Measurement		
	EUT was set for low , mid, high chann	nel with modulated mode and highes	st RF output power.
	The spectrum analyzer was connecte		
2	Conducted Emissions Measurement		
	All test measurements carried out are	traceable to national standards. Th	ne uncertainty of the measurement at a
	range 30MHz – 40GHz is ±1.5dB.	% (In the case where distributions ar	re normal), with a coverage factor of 2, in the
3	Environmental Conditions	Temperature	23°C
		Relative Humidity	50%
		Atmospheric Pressure	1019mbar
4	Test Date : Nov 29th 2010 - Dec 17th Tested By :David Zhang	•	

Standard Requirement: 47 CFR §15.247(b)

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. The highest antenna gain that will be used is 3.76 dBi.

Test Result: Pass

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5.6 Antenna Port Emission

1.	Conducted Measurement		
	EUT was set for low , mid, high chan	nel with modulated mode and high	est RF output power.
	The spectrum analyzer was connected	ed to the antenna terminal.	
2	Conducted Emissions Measurement	Uncertainty	
	All test measurements carried out are	e traceable to national standards.	The uncertainty of the measurement at a
	confidence level of approximately 95	% (in the case where distributions a	are normal), with a coverage factor of 2, in the
	range 30MHz – 40GHz is ±1.5dB.		-
3	Environmental Conditions	Temperature	23°C
		Relative Humidity	50%
		Atmospheric Pressure	1019mbar
4	Test Date : Nov 29th 2010 - Dec 17th	2010	
	Tested By : David Zhang		

Standard Requirement: 47 CFR §15.247(d)

Procedures: The conducted spurious emissions were measured conducted using a spectrum analyzer at low, mid, and hi channels. The limit was determined by attenuating 20 dB of the RF peak power output

Test Result: Pass

 SIEMIC, INC.

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 Title:
 RF Test Report HOST PRINTER MODEL: P4T with Zcom.

 802.11b/g radio module

 Model:
 XG-182Z

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 FC 15.247:2010.RSS-210 Issue 8:2010

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50%

1019mbar

5.7 Radiated Spurious Emission < 1GHz

- 1. <u>All possible modes of operation were investigated</u>. Only the 6 worst case emissions measured, using the correct <u>CISPR detectors, are reported</u>. All other emissions were relatively insignificant.
- A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
 Radiated Emissions Measurement Uncertainty All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a
- 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).</td>

 Image: 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).</td>

 Image: All test measurements carried out are traceable to national standards.
 Temperature
 23°C
- 4 Environmental Conditions Temperature Relative Humidity Atmospheric Pressure Test Date : Nov 29th 2010 - Dec 17th 2010

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

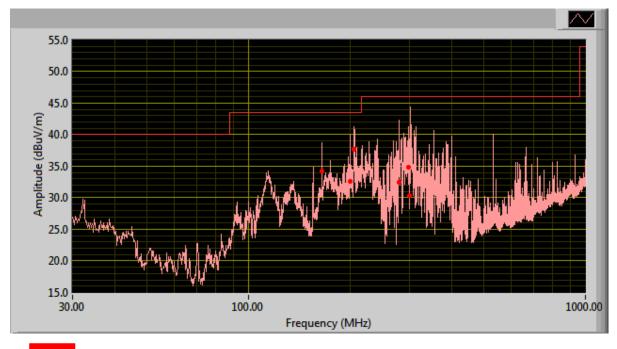


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Radiated Emission Plot



Limit

30MHz ~1000MHz

Frequency (MHz)	Quasi-Peak (dBµV/m)	Turntable position (deg)	Polarity	Antenna height (cm)	Limit (dBµV/m)	Margin (dB)
302.59	30.33	153.00	Н	383.00	46.00	-15.67
205.82	27.62	71.00	Н	241.00	43.50	-15.88
200.02	32.63	106.00	Н	129.00	43.50	-10.87
279.75	32.42	202.00	Н	205.00	46.00	-13.58
164.93	24.21	321.00	V	103.00	43.50	-19.29
299.06	34.85	278.00	Н	384.00	46.00	-11.15

Note: Emission at around 825MHz is cell phone noise signal which is not from EUT.

 SIEMIC, INC.

 Accessing global markets

 Title:
 RF Test Report HOST PRINTER MODEL: P4T with Zcoma

 802.11b/g radio module

 Model:
 XG-182Z

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5.8 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). 23°C 4. **Environmental Conditions** Temperature 50% **Relative Humidity** Atmospheric Pressure 1019mbar Test Date : Nov 29th 2010 - Dec 17th 2010 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

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Configuration : 802.11b

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)
4.824	53.44	215.00	100.00	V	32.20	4.49	32.49	57.64	74.00	-16.37	Peak
4.824	36.61	215.00	100.00	V	32.20	4.49	32.49	40.81	54.00	-13.19	Ave
4.824	56.28	287.00	177.00	Н	32.20	4.49	32.49	60.48	74.00	-13.52	Peak
4.824	42.48	287.00	177.00	Н	32.20	4.49	32.49	46.68	54.00	-7.32	Ave
7.236	44.89	314.00	166.00	V	35.10	6.18	32.39	53.78	74.00	-20.22	Peak
7.236	30.59	314.00	166.00	V	35.10	6.18	32.39	39.48	54.00	-14.52	Ave
7.236	50.16	13.00	157.00	Н	35.10	6.18	32.39	59.05	74.00	-14.95	Peak
7.236	34.17	13.00	157.00	Н	35.10	6.18	32.39	43.06	54.00	-10.94	Ave
9.648	44.50	118.00	184.00	V	38.90	6.76	32.32	57.84	74.00	-16.16	Peak
9.648	29.73	118.00	184.00	V	38.90	6.76	32.32	43.07	54.00	-10.93	Ave
9.648	44.63	235.00	171.00	Н	38.90	6.76	32.32	57.97	74.00	-16.04	Peak
9.648	29.90	235.00	171.00	Н	38.90	6.76	32.32	43.24	54.00	-10.76	Ave
2.400	74.47	239.00	132.00	V	27.50	2.91	32.04	72.84	74.00	-1.16	Peak
2.400	52.12	239.00	132.00	V	27.50	2.91	32.04	50.49	54.00	-3.51	Ave
2.400	71.23	138.00	154.00	Н	27.50	2.91	32.04	69.60	74.00	-4.40	Peak
2.400	51.29	138.00	154.00	Н	27.50	2.91	32.04	49.66	54.00	-4.34	Ave

Low Channel @ 2412MHz @ 3 Meter

Note: Emission was scanned up to 12GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

Mid Channel @ 2437MHz @ 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)
4.874	56.28	218.00	100.00	V	32.20	4.49	32.49	60.48	74.00	-13.52	Peak
4.874	37.60	218.00	100.00	V	32.20	4.49	32.49	41.80	54.00	-12.20	Ave
4.874	61.92	146.00	151.00	Н	32.20	4.49	32.49	66.12	74.00	-7.88	Peak
4.874	44.09	146.00	151.00	Н	32.20	4.49	32.49	48.29	54.00	-5.71	Ave
7.311	50.55	214.00	100.00	V	35.10	6.18	32.39	59.44	74.00	-14.56	Peak
7.311	35.79	214.00	100.00	V	35.10	6.18	32.39	44.68	54.00	-9.32	Ave
7.311	54.30	127.00	148.00	Н	35.10	6.18	32.39	63.19	74.00	-10.81	Peak
7.311	39.33	127.00	148.00	Н	35.10	6.18	32.39	48.22	54.00	-5.78	Ave
9.748	44.14	271.00	100.00	V	38.90	6.76	32.32	57.48	74.00	-16.52	Peak
9.748	29.89	271.00	100.00	V	38.90	6.76	32.32	43.23	54.00	-10.77	Ave
9.748	44.54	7.00	115.00	Н	38.90	6.76	32.32	57.88	74.00	-16.12	Peak
9.748	29.90	7.00	115.00	Н	38.90	6.76	32.32	43.24	54.00	-10.76	Ave

Note: Emission was scanned up to 12GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

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High Channel @ 2462MHz @ 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)
4.924	51.14	218.00	100.00	V	32.20	4.49	32.49	55.34	74.00	-18.66	Peak
4.924	36.77	218.00	100.00	V	32.20	4.49	32.49	40.97	54.00	-13.03	Ave
4.924	58.33	122.00	177.00	Н	32.20	4.49	32.49	62.53	74.00	-11.47	Peak
4.924	43.98	122.00	177.00	Н	32.20	4.49	32.49	48.18	54.00	-5.82	Ave
7.386	45.62	162.00	153.00	V	35.10	6.18	32.39	54.51	74.00	-19.49	Peak
7.386	32.31	162.00	153.00	V	35.10	6.18	32.39	41.20	54.00	-12.80	Ave
7.386	47.90	77.00	174.00	Н	35.10	6.18	32.39	56.79	74.00	-17.21	Peak
7.386	34.55	77.00	174.00	Н	35.10	6.18	32.39	43.44	54.00	-10.56	Ave
9.848	44.03	357.00	100.00	V	38.90	6.76	32.32	57.37	74.00	-16.63	Peak
9.848	29.71	357.00	100.00	V	38.90	6.76	32.32	43.05	54.00	-10.95	Ave
9.848	44.40	357.00	100.00	Н	38.90	6.76	32.32	57.74	74.00	-16.27	Peak
9.848	29.72	357.00	100.00	Н	38.90	6.76	32.32	43.06	54.00	-10.94	Ave
2.484	55.51	160.00	155.00	V	27.50	2.91	32.04	53.88	74.00	-20.12	Peak
2.484	33.98	160.00	155.00	V	27.50	2.91	32.04	32.35	54.00	-21.65	Ave
2.484	51.21	201.00	100.00	Н	27.50	2.91	32.04	49.58	74.00	-24.42	Peak
2.484	30.14	201.00	100.00	Н	27.50	2.91	32.04	28.51	54.00	-25.49	Ave

Note: Emission was scanned up to 12GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit



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Configuration : 802.11g

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)
4.824	53.74	218.00	103.00	V	32.20	4.49	32.49	57.94	74.00	-16.06	Peak
4.824	37.67	218.00	103.00	V	32.20	4.49	32.49	41.87	54.00	-12.13	Ave
4.824	58.25	145.00	190.00	Н	32.20	4.49	32.49	62.45	74.00	-11.55	Peak
4.824	42.37	145.00	190.00	Н	32.20	4.49	32.49	46.57	54.00	-7.43	Ave
7.236	48.32	216.00	100.00	V	35.10	6.18	32.39	57.21	74.00	-16.79	Peak
7.236	32.68	216.00	100.00	V	35.10	6.18	32.39	41.57	54.00	-12.43	Ave
7.236	46.90	295.00	174.00	Н	35.10	6.18	32.39	55.79	74.00	-18.21	Peak
7.236	32.16	295.00	174.00	Н	35.10	6.18	32.39	41.05	54.00	-12.95	Ave
9.648	44.02	223.00	100.00	V	38.90	6.76	32.32	57.36	74.00	-16.64	Peak
9.648	29.66	223.00	100.00	V	38.90	6.76	32.32	43.00	54.00	-11.00	Ave
9.648	44.04	359.00	128.00	Н	38.90	6.76	32.32	57.38	74.00	-16.62	Peak
9.648	29.63	359.00	128.00	Н	38.90	6.76	32.32	42.97	54.00	-11.03	Ave
2.400	73.77	239.00	132.00	V	27.50	2.91	32.04	72.14	74.00	-1.86	Peak
2.400	50.96	239.00	132.00	V	27.50	2.91	32.04	49.33	54.00	-4.67	Ave
2.400	71.25	138.00	154.00	Н	27.50	2.91	32.04	69.62	74.00	-4.38	Peak
2.400	49.34	138.00	154.00	Н	27.50	2.91	32.04	47.71	54.00	-6.29	Ave

Low Channel @ 2412MHz @ 3 Meter

Note: Emission was scanned up to 12GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

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)
4.874	56.61	214.00	100.00	V	32.20	4.49	32.49	60.81	74.00	-13.19	Peak
4.874	42.05	214.00	100.00	V	32.20	4.49	32.49	46.25	54.00	-7.75	Ave
4.874	55.28	154.00	181.00	Н	32.20	4.49	32.49	59.48	74.00	-14.52	Peak
4.874	40.46	154.00	181.00	Н	32.20	4.49	32.49	44.66	54.00	-9.34	Ave
7.311	51.43	215.00	100.00	V	35.10	6.18	32.39	60.32	74.00	-13.68	Peak
7.311	35.88	215.00	100.00	V	35.10	6.18	32.39	44.77	54.00	-9.23	Ave
7.311	58.64	70.00	151.00	Н	35.10	6.18	32.39	67.53	74.00	-6.47	Peak
7.311	39.15	70.00	151.00	Н	35.10	6.18	32.39	48.04	54.00	-5.96	Ave
9.748	44.14	183.00	100.00	V	38.90	6.76	32.32	57.48	74.00	-16.52	Peak
9.748	29.87	183.00	100.00	V	38.90	6.76	32.32	43.21	54.00	-10.79	Ave
9.748	44.74	27.00	100.00	Н	38.90	6.76	32.32	58.08	74.00	-15.92	Peak
9.748	29.84	27.00	100.00	Н	38.90	6.76	32.32	43.18	54.00	-10.82	Ave

Mid Channel @ 2437MHz @ 3 Meter

Note: Emission was scanned up to 12GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

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High Channel @ 2462MHz @ 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)
4.924	52.57	215.00	100.00	V	32.20	4.49	32.49	56.77	74.00	-17.23	Peak
4.924	31.26	215.00	100.00	V	32.20	4.49	32.49	35.46	54.00	-18.54	Ave
4.924	58.53	122.00	185.00	Н	32.20	4.49	32.49	62.73	74.00	-11.27	Peak
4.924	41.76	122.00	185.00	Н	32.20	4.49	32.49	45.96	54.00	-8.04	Ave
7.386	47.17	217.00	100.00	V	35.10	6.18	32.39	56.06	74.00	-17.94	Peak
7.386	31.62	217.00	100.00	V	35.10	6.18	32.39	40.51	54.00	-13.49	Ave
7.386	49.21	181.00	201.00	Н	35.10	6.18	32.39	58.10	74.00	-15.90	Peak
7.386	32.70	181.00	201.00	Н	35.10	6.18	32.39	41.59	54.00	-12.41	Ave
9.848	44.16	293.00	100.00	V	38.90	6.76	32.32	57.50	74.00	-16.50	Peak
9.848	29.70	293.00	100.00	V	38.90	6.76	32.32	43.04	54.00	-10.96	Ave
9.848	44.55	81.00	200.00	Н	38.90	6.76	32.32	57.89	74.00	-16.11	Peak
9.848	29.70	81.00	200.00	Н	38.90	6.76	32.32	43.04	54.00	-10.96	Ave
2.484	63.93	160.00	155.00	V	27.50	2.91	32.04	62.30	74.00	-11.70	Peak
2.484	40.71	160.00	155.00	V	27.50	2.91	32.04	39.08	54.00	-14.92	Ave
2.484	61.21	201.00	100.00	Н	27.50	2.91	32.04	59.58	74.00	-14.42	Peak
2.484	38.49	201.00	100.00	Н	27.50	2.91	32.04	36.86	54.00	-17.14	Ave

Note: Emission was scanned up to 12GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

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5.11 <u>Receiver Spurious Emissions</u>

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 ±1.5dB. 3 **Environmental Conditions** 23°C Temperature Relative Humidity 50% Atmospheric Pressure 1019mbar Test Date : Nov 29th 2010 - Dec 17th 2010 4 Tested By :David Zhang

Standard Requirement: RSSGen(4.8)

Procedures: The conducted spurious emissions were measured conducted using a spectrum analyzer at mid channels. the search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is the higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is the higher, without exceeding 40 GHz. Receiver spurious emissions at any discrete frequency shall not exceed 2 nanowatts in the band 30-1000 MHz, or 5 nanowatts above 1 GHz.

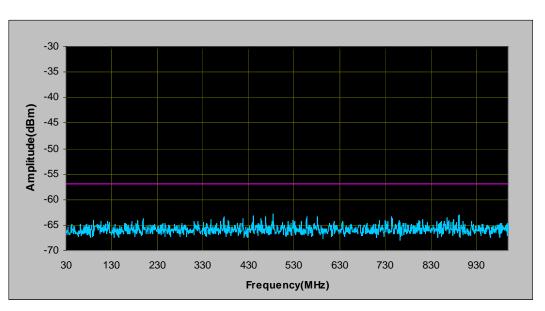
Test Result: Pass



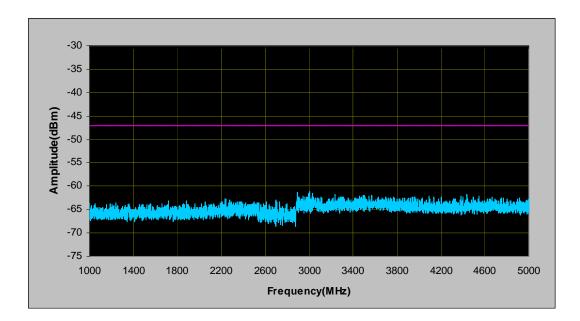
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Receiver Spurious Emission Plot-1



Receiver Spurious Emission Plot- 2



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0 -10 -20 Amplitude(dBm) -30 -40 -50 -60 -70 -80 15000 16000 17000 18000 19000 20000 21000 22000 23000 24000 25000 Frequency(MHz)

Receiver Spurious Emission Plot- 3



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Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Manufacturer	Model	CAL Due Date
3m Semi-Anechoic	ETS-Lingren	3M	10/13/2011
Chamber			
Spectrum Analyzer	HP	8564E	05/19/2011
EMI Receiver	Rohde & Schwarz	ESIB 40	05/19/2011
R&S LISN	R&S	ESH2-Z5	05/18/2011
CHASE LISN	Chase	MN2050B	05/18/2011
Antenna(1 ~18GHz)	Emco	3115	06/04/2012
Antenna (30MHz~2GHz)	Sunol Sciences	JB1	06/04/2012
Chamber	Lingren	3m	10/13/2011
Pre-Amplifier(1 ~	HP	8449	05/17/2011
26GHz)		0449	03/17/2011
Horn Antenna	Com Power	AH-840	06/04/2012
(18~40GHz)			
Microwave Pre-Amp	Com Power	PA-840	Every 2000 hours
(18~40GHz)			
Sekonic Hygro	ST-50	HE01-000092	06/04/2012
Hermograph	51-50	11201-000072	00/07/2012

Note: No calibration required.



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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.
- 5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

Description of Conducted Emission Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the common scan range from 15 kHz to 30 MHz; the program will first start a peak and average scan on selectable measurement time and step size. After the program complete the pre-scan, this program will perform the Quasi Peak and Average measurement, based on the pre-scan peak data reduction result.

Sample Calculation Example

At 20 MHzlimit = 250 μ V = 47.96 dB μ VTransducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dBQ-P reading obtained directly from EMI Receiver = 40.00 dB μ V
(Calibrated for system losses)Therefore, Q-P margin = 47.96 - 40.00 = 7.96i.e. **7.96 dB below limit**

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Annex A. iii RADIATED EMISSIONS TEST DESCRIPTION

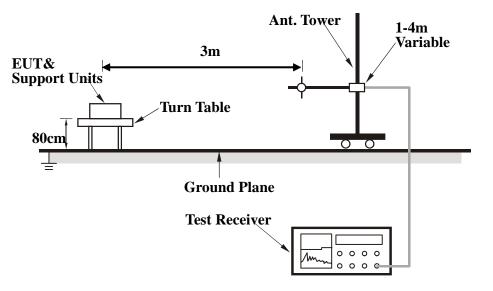
EUT Characterisation

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

Title

Τo

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 ° to 360 ° 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
Above 1000	Average	1 MHz	10 Hz

Description of Radiated Emission Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the scan on four different antenna heights, 2 antenna polarity, and 360 degrees table rotation. For example, the program was set to run 30 MHz to 1 GHz scan; the program will first start from a meter antenna height and divide the 30 MHz to 1 GHz into 10 separate parts of maximum hold sweeps. Each parts of maximum hold sweep, the program will collect the data from 0 degree to 360 degrees table rotation. After the program complete the 1m scan, the antenna continues to rise to 2m and continue the scan. The step will repeated for all specified antenna height and polarity. This program will perform the Quasi Peak measurement after the signal maximization process and pre-scan routine. The final measurement will be base on the pre-scan data reduction result.



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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 PHOTOGRAPHS

Photograph 1: EUT External Photo Annex B. i



EUT - Front View







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EUT - Right View



EUT - Left View

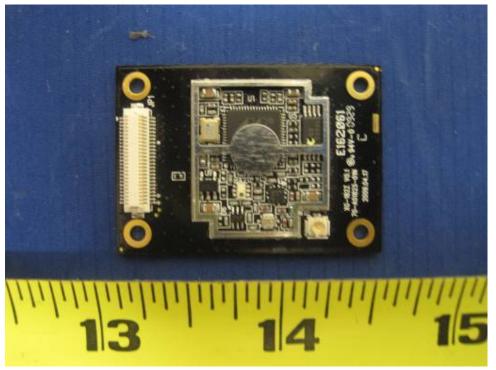


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Annex B. ii Photograph 2: EUT Internal Photo



RF Module PCBA Component View



RF Module PCBA Solder View



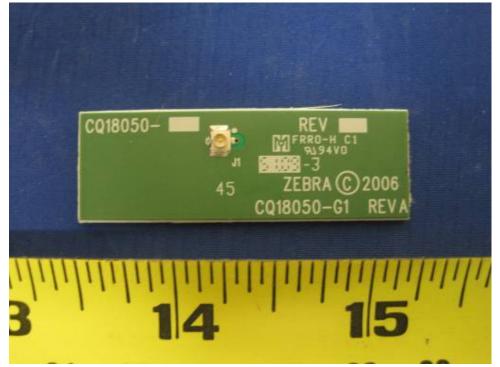
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CQ18050-G1 REV A 1100403GQ MADE IN MX 3'8 34 38 35 36 3

EUT (WLAN Antenna) View 1



EUT (WLAN Antenna) View 2



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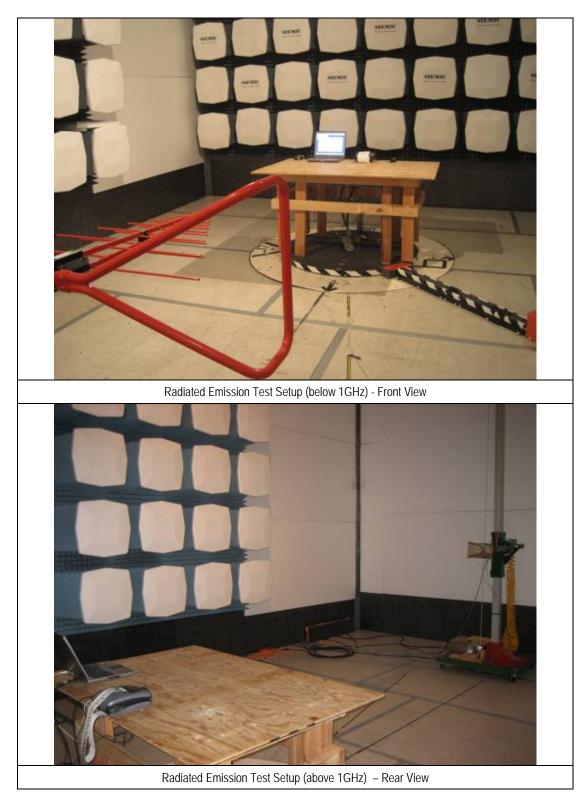
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Annex B.iv. Photograph 3: Test Setup Photo

Radiated Emission





Conducted Emission





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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

EUT TEST CONDITIONS

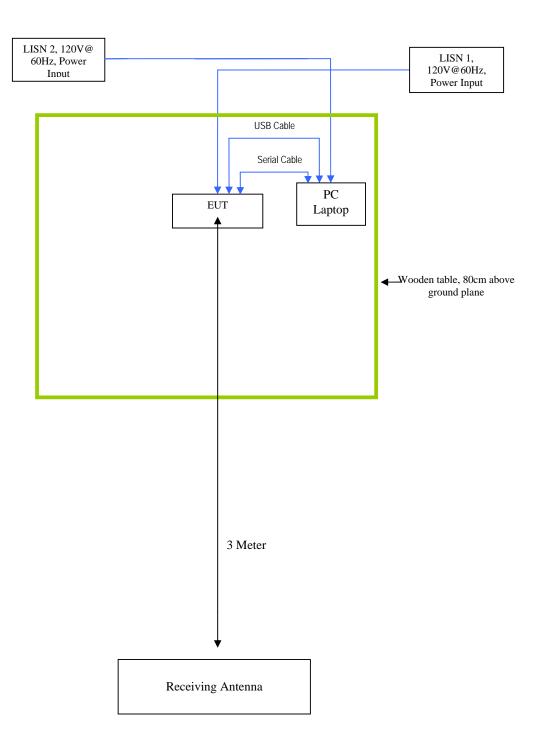
Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

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)
Dell / Laptop	D600	USB Cable, 1 meter; Serial Cable 1m

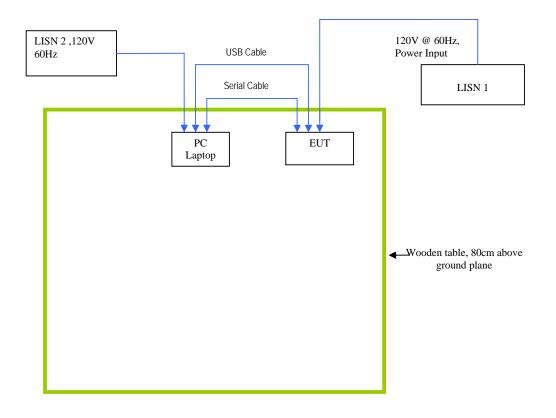


Block Configuration Diagram for Radiated Emission





Block Configuration Diagram for Conducted Emission





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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 by itself Using manufacturer's program.
Others Testing	TX mode is normal mode with full power.

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Annex D USER MANUAL, BLOCK & CIRCUIT DIAGRAM

Please see attachment



 SIEMIC, INC.

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 Title:
 RF Test Report HOST PRINTER MODEL: P4T with Zcomax

 802.11b/g radio module

 Model:
 XG-1822

 To
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Annex E SIEMIC ACCREDITATION

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



SIEMIC, INC. Accessing global markets

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Title:

То

The American Association for Laboratory Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SIEMIC LABORATORIES 1 2206 Ringwood Ave. San Jose, CA 95131 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, 2012

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 Description:	Test Method:	
EN & IEC – Emissions & Immunity	IEC/CISPR 11; IEC/CISPR 12; EN 55011; IEC/CISPR 22; EN 55022; IEC/CISPR 20; EN 55020; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 61204-3; EN 61326, EN 61326-1; 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; (<i>limited up to 2.7 GHz and 3V/m</i>); EN 61000-4-3; (<i>limited up to 2.7 GHz and 3V/m</i>); EN 61000-4-4; IEC 61000-4-5; EN 61000-4-5; IEC 61000-4-6; EN 61000-4-6; IEC 61000-4-5; EN 61000-4-8; IEC 61000-4-6; EN 61000-4-6; IEC 61000-4-8; EN 61000-4-8; IEC 61000-4-11; EN 61000-4-11; IEC/CISPR 24; EN 55024; EN 50412-2-1; EN 50083-2; EN 50090-2-2; EN 50091-2; EN 50130-4; EN 50130-4 +A12; IEC 60601-1-2; EN 12184; EN 55015; EN 61547; CISPR 16-1-4	
Korça – Emissions & Immunity	IEC 60601-1-2; EN 12184; EN 55015; EN 61547; CISPR 16-1-4 KCC Notice 2009-27, Nov. 5, 2009; RRA Announce 2009-9, Dec. 21, 2009; KN 22:2007-12; KCC Notice 2009-27, Nov. 5, 2009; RRA Notice 2009-10, Dec. 21, 2009; KN 24:2008-5; KN 61000-4-2:2008-5; KN 61000-4-3:2008-5; KN 61000-4-4:2008-5; KN 61000-4-5:2008-5; KN 61000-4-6:2008-5; KN 61000-4-8:2008-5; KN 61000-4-11:2008-5; RRL Notice 2008-3; RRL Notice 2008-4; RRL Notice 2005-131; RRL Notice 2007-99; RRL Notice 2007-101; RRL Notice 2008-4; RRA Notice No 2008-11(2008.12.16); RRA Notice No 2008-12(2008.12.16); KN 60601-1-2; KCC Notice 2009-27; KN 301 489-1(2008-05); KN 301 489-7(2008-05); KN 301 489-17(2008-05); KN 301 489-24(2008-05); KN 16-1-1(2008-05); KN 16-1-2(2008-05); KN 16-2-1(2008-05); KN 16-1-4(2008-05); KN 16-2-3(2008-05); KN 16-2-4(2008-05); KN 16-2-2(2008-05); KN 16-2-3(2008-05); KN 16-2-4(2008-05);	

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FCC - Emissions ANSI C63.17:2006; 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; ANSI C63.4(2009); ANSI C63.10(2009); FCC Method 47 CFR Part 18, FCC OST/MP-5(1986); FCC Report and Order ET Docket 98-153 (FCC 02-48); FCC Method 47 CFR Part 15, Subpart G, using FCC Order 04-425; FCC Method 47 CFR Parts 11 (Emergency Alert System (EAS)), 15 (Radio Frequency Devices) and 18 (Industrial, Scientific, and Medical Equipment); SAE J1113-11, SAE J1113-12; SAE J1113-41; SAE J1113-4; SAE J1113-13 Canada - Emissions ICES-001; ICES-002; ICES-003 Issue 4; ICES-003 Issue 4 (2004); ICES-006 Issue 1 Vietnam - Emission & TCN 68-193:2003; TCN 68-196:2001; TCVN 7189:2002 Immunity Australia / New Zealand -AS/NZS 1044; AS/NZS 4251.1; AS/NZS 4251.2; AS/NZS CISPR 22; Emissions and Immunity AS/NZS 3548; AS/NZS 2279.3; AS/NZS 61000-3-3; AS/NZS CISPR 11; AS/NZS CISPR 24; AS/NZS 61000.6.3; AS/NZS 61000.6.4; AS/NZS CISPR 14.1; AS/NZS 61000.3.2 Japan - Emissions JEITA IT-3001; VCCI-V-3:2010.4 (up to 6 GHz) China - Emissions GB9254; GB17625.1 Taiwan - Emissions CNS 13438 (up to 6 GHz); CNS 13783-1; CNS 13803; CNS 13439 IDA TS EMC; CISPR 22; IEC 61000-4-2; IEC 61000-4-3; Singapore - Emissions & IEC 61000-4-4; IEC 61000-4-5; IEC 61000-4-6 Immunity FCC - Radio Maritime and Aviation Radio Services in 47 CFR Parts 80 and 87; TIA/EIA 603-C with 47 Personal Mobile Radio Services in 47 CFR Parts 22 (cellular), 24, 25, 26, CFR Part 2 and 27: Personal Mobile Radio Services in 47 CFR Part 22 (cellular) and Part 24 -[limited to TX conducted and radiated power and RX - TX radiated spurious emissions]: General Mobile Radio Services in 47 CFR Parts 22 (non-cellular), 74, 90, 95. and 97: General Mobile Radio Services in 47 CFR Part 90; Microwave Radio Services in 47 CFR Parts 21, 27, 74, and 101 RSS 102; RSS 111; RSS 112; RSS 117; RSS 118; RSS 119; RSS 123; Canada - Radio RSS 125; RSS 127; RSS 128; 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 188; RSS 191; RSS 192; RSS 193; RSS 194; RSS 195; RSS 196; RSS 197; RSS 198; RSS 199; RSS 210; RSS 220; RSS 213; RSS 215; RSS 243; RSS 287; RSS 310; RSS Gen

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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 302 502; 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 302217-1; EN 302217-2-1; EN 302217-4-1; EN 302288-1; EN 302908-12; EN 302326-1; EN 301929-1; EN 301997-1; EN 300224-2; EN 301839-1; EN 301843-1; EN 301843-2; EN 301843-3; EN 301843-4; EN 301843-5; EN 302017-1; EN 302208-1; EN 300086-1; EN 300113-1; EN 300224-1; EN 300341-1; EN 302291-1; EN 302500-1; EN 302500-2; 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; ETSI EN 301 489-27; ETSI EN 301 489-28; ETSI EN 301 489-31; ETSI EN 301 489-32; IEC 60945 IDA TS 3G-BS; IDA TS 3G-MT; IDA TS AR; IDA TS CT-CTS; IDA - Radio IDA TS GMPCS; IDA TS GSM-BS; IDA TS GSM-MT; IDA TS LMR; IDA TS RPG; IDA TS SRD; IDA TS UWB; IDA TS WBA TCN 68-242:2006; TCN 68-243:2006; TCN 68-246:2006 Vietnam - Radio Peter Mhye (A2LA Certificate No. 2742.01) 11/23/2010 Page 3 of 7



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Korea - Radio KCC Notice 2009-13; KCC Notice 2008-26; RRL Notice 2008-2; RRL Notice 2005-105; RRL Notice 2008-17; RRL Notice 2005-127; RRL Notice 2005-24; RRL Notice 2005-25; RRL Notice 2005-179; RRL Notice 2008-10; RRL Notice 2007-49; RRL Notice 2007-20; RRL Notice 2007-11; RRL Notice 2007-80; RRL Notice 2004-68; KCC Notice 2009-36, Dec. 8, 2009; RRL Notice 2009-6, October 15, 2009; KCC Notice 2010-1; KCC Notice 2010-12; KCC Notice 2010-13 LP0002; PLMN07; PLMN01; PLMN08 Taiwan - Radio Australia - New Zealand -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: Radio AS/NZS 4769.1; AS/NZS 4769.2; AS/NZS 4770; AS/NZS 4771 Hong Kong - Radio HKTA 1002; HKTA 1007; HKTA 1008; HKTA 1010; HKTA 1015; HKTA 1016; HKTA 1020; HKTA 1022; HKTA 1026; HKTA 1027; HKTA 1029; HKTA 1030; HKTA 1031; HKTA 1032; HKTA 1033; HKTA 1034; HKTA 1035; HKTA 1036; HKTA 1037; HKTA 1039; HKTA 1041; HKTA 1042; HKTA 1043; HKTA 1044; HKTA 1046; HKTA 1047; HKTA 1048; HKTA 1049; HKTA 1051; HKTA1052; HKTA1053; HKTA 1054; HKTA 1055 USA - Telecom ANSI/TIA-968-A:03; ANSI/TIA-968-A-1:03; ANSI/TIA-968-A-2:04; ANSI/TIA-968-A-3:05; ANSI/TIA-968-A-4:07; ANSI/TIA-968-A-5:07; 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-810-B; TIA-920 CS-03 Part V Issue 9:2009 Amendment 1; Canada - Telecom CS-03 Part VIII Issue 9:2009 Amendment 4; CS-03 Part I Issue 9:2006 Amendment 3; CS-03 Part II Issue 9:2004; CS-03 Part III Issue 9:2004; CS-03 Part V Issue 9:2004 ; CS-03 Part VI Issue 9:2004; CS-03 Part VII Issue 9:2006 Amendment 3; CS-03 Part VIII Issue 9:2007 Amendment 3: CS-03 Issue 9:04 + A2(06) + A3(06) TBR 2: 01-1997; TBR 004 Ed.1.95 + A1 (97); TBR 1; TBR 3; Europe - Telecom TBR 12:A1 01-1996; TBR 013 ed.1; TBR 024 ed.1; TBR 25; TBR 38 ed.1; ETSI ES 203 021-05 ; ETSI ES 203 021-2 ; ETSI ES 021-3; TBR 021; 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 - Amendment 1; Erratum 1 (02/2003) ITU-T Recommendation Q.931 (05/1998); ISDN User Network Interface Layer 3 Specification for Basic Call Control; ITU-T Recommendation P.300 Australia - Telecom AS/CA \$003.1:2010; AS/CA \$003.2:2010; AS/CA \$003.3:2010; AS/CA S004:2010; AS/ACIF S006;2008; AS/ACIF S041.1:2009 Peter Allage (A2LA Certificate No. 2742.01) 11/23/2010 Page 4 of 7



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Australia - Telecom AS/ACIF S041.2:2009; AS/ACIF S041.3:2009; AS/ACIF S042.1:2008; AS/ACIF S043.2:2008; AS/ACIF S043.3:2008; 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 \$043.2:06; AS ACIF \$042.1 New Zealand - Telecom PTC200:2006; PTC200 Issue No.2:97 + A1(980); PTC220; PTC273:2007; TNA 115; TNA 117 Singapore - Telecom IDA TS ADSL, Issue 1, Rev. 1 (April 2006); IDA TS DLCN, Issue 1 (July 2005); IDA TS ISDN BA, Issue 1 (July 2005); IDA TS ISDN PRA, Issue 1 (July 2005); IDA TS ISDN 3 (Oct. 2000); IDA TS-PSTN, Issue 1 (March 2007); IDA TS ACLIP 07 Hong Kong - Telecom HKTA 2011; HKTA 2012; HKTA 2013; HKTA 2014; HKTA 2017; HKTA 2018; HKTA 2022; HKTA 2024; HKTA 2026; HKTA 2027; HKTA 2028; HKTA 2029; HKTA 2030; HKTA 2031; HKTA 2032; HKTA 2033 TCN 68-188:2000; TCN 68-193:2003; TCN 68-196:2001; Vietnam - Telecom TCN 68-143:2003; TCN 68-192:2003; TCN 68-189:2000; TCN 68-221:2004; TCN 68-222:2004; TCN 68-245:2004; TCN 68-223:2004 Korea - Telecom RRA Notice 2009-38, Sep. 11, 2009; RRA Notice 2009-7 (including attachments 1, 3, 5,6); Presidential Decree 21098, RRL Notice 2007-30; RRL Notice 2008-10 (attachments 1, 3, 5, 6); RRL Notice 2009-25; **RRL Notice 2008-59** 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 PSTN01:03; ADSL01:08; ID0002; 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 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 Spc. 23/96

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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 IEC 60950-1; EN 60950-1; UL 60950-1; IEC 60601-1-1; Product Safety 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 and H); CNS 14336, CNS 14408; GB4943; President Notice 20664; RRL Notice 2008-10 (attachment 4); RRA Notice 2009-7 (attachment 4); TCN 68-190:2003; 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; RRL 2008-18; RRL 2008-16; KCC 2009-27; RRL 2004-67; CNS 14959; NZS 2772.1; NZS 6609.2; Resolution N 533 Japan -Notification No. 88 of **MIC 2004** CB Radio Table No 13 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 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 27 GHz Bands Table No 47 Base Station for 5 GHz Band Wireless Access System Table No 47 Base Station for 5 GHz Band Wireless Access System (low spurious type) Land Mobile Relay for 5 GHz Band Wireless Access System (limited for use Table No 47 in special zones)

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Table No 47 Land Mobile Relay for 5 GHz Band Wireless Access System (limited for use in special zones, low spurious type) Table No 47 Land Mobile Relay for 5 GHz Band Wireless Access System Table No 47 Land Mobile Relay for 5 GHz Band Wireless Access System (low spurious type) Table No 47 Land Mobile Relay for 5 GHz Band Wireless Access System (low power type) 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 Communication Systems Table No 64 Base Station for Dedicated Short Range Communication Systems Table No 64 Test Station for Dedicated Short Range Communication Systems Table No 70 UWB (Ultra Wide Band) Radio System

¹Note: This accreditation covers testing performed at the laboratory listed above and the OATS located at 44366 South Grimmer Blvd., Fremont CA 94538. At this site "Radiated Emissions" are tested at a measurement distance of 10m.

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

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including the US Federal Communications (of the A2LA Certification Body Accreditation Program evaluation, Commission (FCC), Industry Canada (IC), Singapore (IDA) and dicated types of product certifications, accreditation is granted to roduct certification schemes:
Economy	Scope
Federal Communication Commission - (F	<u>·CC)</u>
Unlicensed Radio Frequency Devices Licensed Radio Frequency Devices Telephone Terminal Equipment	A1, A2, A3, A4 B1, B2, B3, B4 C
	Responsibilities, released July 22, 2010 detailing scopes, roles and forms/FTSSearchResultPage.cfm?id=44683&switch=P
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 a	t: http://www.ic.gc.ca/etc/site/smt-gst.nsf/eng/sf09888.html
IDA - Singapore	
Line Terminal Equipment	All Technical Specifications for Line Terminal Equipment – Table 1 of IDA MRA Recognition Scheme: 2009, Annex 2
Radio-Communication Equipment	All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2009, Annex 2
*Please refer to Info-Communication Developme http://www.ida.gov.sg/doc/Policies%20and%201 heme.pdf	ent Authority (iDA) Singapore website at: Regulation Policies and Regulation Level2/2006/06/09/145118/MRARecSc Pater Maryer Page 1 of 2



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OFTA - Hong Kong

Radio Equipment

HKTA 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1015, 1016, 1019, 1020, 1022, 1026, 1027, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055

*Please refer to the Office of the Telecommunications Authority's website at: http://www.ofta.gov.hk/en/standards/HKTASpec/hkta-10xx.html

Fixed Network Equipment

HKTA 2001, 2005, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2040, 2041, 2102, 2103, 2104, 2108, 2201, 2202, 2203, 2204

*Please refer to the Office of the Telecommunications Authority's website at: http://www.ofta.gov.hk/en/standards/HKTASpec/hkta-2xxx.html

(A2LA Cert. No. 2742.02) 11/23/2010

Peter Mbrye Page 2 of 2

SIEMIC, INC. Accessing global markets RF Test Report HOST PRINTER MODEL: P4T with Zcomax Title 802.11b/g radio module Model : XG-1827 FCC 15.247:2010,RSS-210 Issue 8:2010

SL10082306-ZBR-063_FCC,IC Rev1.0 Serial# Issue Date Dec 17th 2010 Page

SIEMIC ACCREDITATION DETAILS: FCC Test Site Registration No. 783147

FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division 7435 Oakland Mills Road Columbia, MD 21046

December 20, 2007

Registration Number: 783147

SIEMIC Laboratories 2206 Ringwood Avenue, San Jose, CA 95131

Τo

Attention: Leslie Bai

Measurement facility located at San Jose Re: 3 & 10 meter site Date of Renewal: December 20, 2007

Dear Sir or Madam:

Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on 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,

Phyllis Parrish Industry Analyst



Accessing global markets RF Test Report HOST PRINTER MODEL: P4T with Zcomax 802.11b/g radio module Model : XG-1827 FCC 15.247:2010,RSS-210 Issue 8:2010

SL10082306-ZBR-063_FCC,IC Rev1.0 Serial# Issue Date Dec 17th 2010 Page www.siemic.com

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

Title

Τo

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,

Parial In Alda

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

Enclosure

cc: CAB Program Manager



SIEMIC, INC. Accessing global market RF Test Report HOST PRINTER MODEL: P4T with Zcomax Title: 802.11b/g radio module Model : XG-1827 FCC 15.247:2010,RSS-210 Issue 8:2010

SL10082306-ZBR-063_FCC,IC Rev1.0 Serial# Issue Date Dec 17th 2010 Page

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

Canada Industrie Canada

May 27, 2010

To

OUR FILE: 46405-4842 Submission No: 140856

Siemic Inc. 2206 Ringwood Ave San Jose, CA, 95131 USA

Attention: Snell Leong

Dear Sir/Madame:

The Bureau has received your application for the renewal of a 3m 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 (4842A-1). 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;

Your primary code is: 4842

The company number associated to the site(s) located at the above address is: 4842A

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 two 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 <u>certification.bureau@ic.gc.ca</u> Please reference our file and submission number above for all correspondence.

Yours sincerely,

DoluinderHill

Dalwinder Gill For: Wireless Laboratory Manager Certification and Engineering Bureau 3701 Carling Ave., Building 94 P.O. Box 11490, Station "H" Ottawa, Ontario K2H 8S2 Email: dalwinder.gill@ic.gc.ca Tel. No. (613) 998-8363 Fax. No. (613) 990-4752

SIEMIC, INC. Accessing global markets RF Test Report HOST PRINTER MODEL: P4T with Zcomax 802.11b/g radio module Model : XG-1827

SL10082306-ZBR-063_FCC,IC Rev1.0 Serial# Issue Date Dec 17th 2010 Page

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

Title

Τo

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

Title

Τo

Model :

Accessing global markets RF Test Report HOST PRINTER MODEL: P4T with Zcomax 802.11b/g radio module XG-1827 FCC 15.247:2010,RSS-210 Issue 8:2010

SL10082306-ZBR-063_FCC,IC Rev1.0 Serial# Issue Date Dec 17th 2010 Page 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,

Daniel I. alder

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

Enclosure

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



Accessing global market RF Test Report HOST PRINTER MODEL: P4T with Zcomax 802.11b/g radio module XG-1827

FCC 15.247:2010,RSS-210 Issue 8:2010

SL10082306-ZBR-063_FCC,IC Rev1.0 Serial# Issue Date Dec 17th 2010 www.siemic.com

SIEMIC ACCREDITATION DETAILS: Korea CAB ID: US0160



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

October 1, 2008

Title

Model :

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:	SIEMIC, Inc.
Physical Location:	2206 Ringwood Avenue, San Jose, CA 95131
Identification No .:	US0160
Recognized Scope:	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,

e

Panil In alde

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

Enclosure

cc: Ramona Saar

Title:

To

Accessing global markets 802.11b/g radio module Model : XG-1827 FCC 15.247:2010,RSS-210 Issue 8:2010

SL10082306-ZBR-063_FCC,IC Rev1.0 Serial# Issue Date Dec 17th 2010 Page

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



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Geithersburg, 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 1 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: -

US0160 **CNS 13438**

- Scope of Designation:
 - Authorized signatory: Mr. Leslie Bai

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,

2 auch

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

Jogindar Dhillon 001

Accessing global markets 802.11b/g radio module XG-1827 FCC 15.247:2010,RSS-210 Issue 8:2010

SL10082306-ZBR-063_FCC,IC Rev1.0 Serial# Issue Date Dec 17th 2010 Page www.siemic.com

SIEMIC ACCREDITATION DETAILS: Taiwan NCC CAB ID: US0160



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

November 25, 2008

Title

Τo

Model :

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: SIEMIC, Inc. Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131 Identification No.: US0160 Current Scope: LP0002 Additional Scope: PSTN01, ADSL01, ID0002, IS6100 and CNS 14336

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.

Ramid Z. alden

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

Enclosure

cc: Ramona Saar





То

802.11b/g radio module Model: XG-182Z

FCC 15.247:2010,RSS-210 Issue 8:2010

SL10082306-ZBR-063_FCC,IC Rev1.0 Serial# Issue Date Dec 17th 2010 Page

SIEMIC ACCREDITATION DETAILS: Mexico NOM Recognition

Laboratorio Valentín V. Rivero ANIE CAMARA NACIONAL BE LA INDUSTRIA ELECTRONICA DE TELECOMUNICACIONES E INFORMATICA México D.F. a 16 de octubre de 2006. LESLIE BAJ 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 encontrara el Acuardo en idioma ingles y español pretenado de los cuales le pido sea revisado y en su caso corregido, para que si esta de acuerdo poder firmarlo para mandanto con las autoridades Mexicanas para su visto bueno y así poder ejercer dicho acuerdo. Aprovecho este escrito para mencionarle que nuestro intermediario gestor será la empresa Isatel 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 cuenta con amplia experiencia en la gestorla de la certificación de cumplimiento con Normas Oficiales Mexicanas de producto en México. Me despido de ustad enviándole un contial saludo y esperando sus comentarios al Acuerdo que nos scupa Atentamente: Ing. Faustino Borlez González Gerente Teenico del Laboratorio de CANIER. Hasterens Condesa DE 100 Maxim, D.F. W. 5254-0308 con 12 lineas Fax 5264-0488 serveral, 228 d loof Links

Accessing global market 802.11b/g radio module XG-1827 FCC 15.247:2010,RSS-210 Issue 8:2010

SL10082306-ZBR-063_FCC,IC Rev1.0 Serial# Issue Date Dec 17th 2010 Page 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

Title

Τo

Model :

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 I. alden

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

Enclosure

cc: Ramona Saar





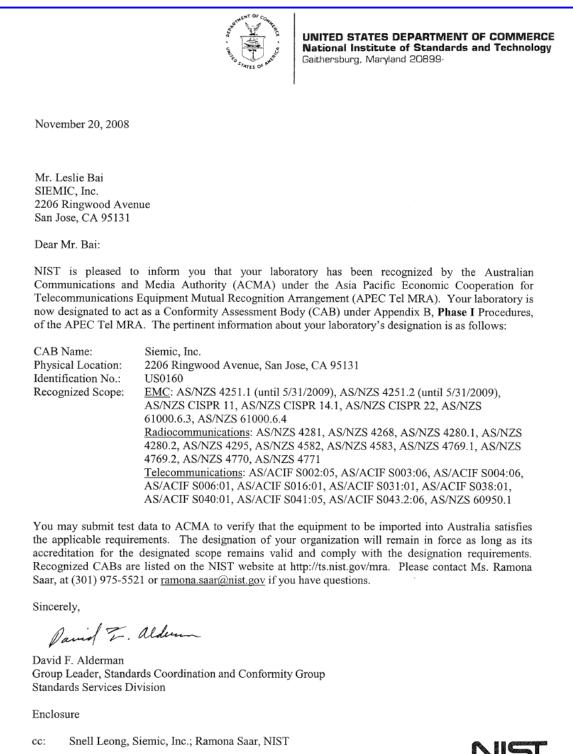
Τo

Accessing global market RF Test Report HOST PRINTER MODEL: P4T with Zcomax 802.11b/g radio module Model : XG-1827

FCC 15.247:2010,RSS-210 Issue 8:2010

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SIEMIC ACCREDITATION DETAILS: Australia ACMA CAB ID: US0160



NIC



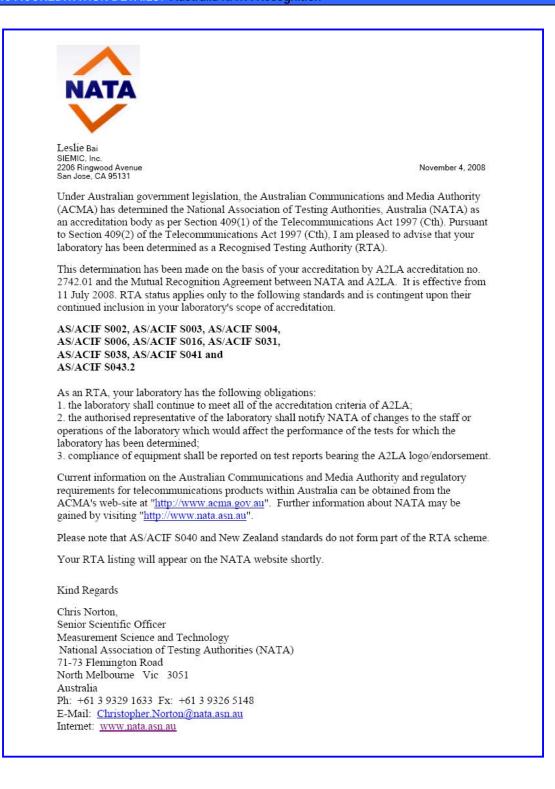
To

Accessing global markets RF Test Report HOST PRINTER MODEL: P4T with Zcomax 802.11b/g radio module Model : XG-1827

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SIEMIC ACCREDITATION DETAILS: Australia NATA Recognition





То

RF Test Report HOST PRINTER MODEL: P4T with Zcomax 802.11b/g radio module Model : XG-182Z FCC 15.247:2010,RSS-210 Issue 8:2010

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SIEMIC ACCREDITATION DETAILS: VCCI Radiated Test Site Registration No. R-3083





То

Accessing global markets RF Test Report HOST PRINTER MODEL: P4T with Zcomax 802.11b/g radio module Model : XG-182Z FCC 15.247:2010,RSS-210 Issue 8:2010

SL10082306-ZBR-063_FCC,IC Rev1.0 Issue Date Dec 17th 2010

SIEMIC ACCREDITATION DETAILS: VCCI Conducted (Main Port) Test Site Registration No. C-3421





To

802.11b/g radio module Model : XG-182Z FCC 15.247:2010,RSS-210 Issue 8:2010

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SIEMIC ACCREDITATION DETAILS: VCCI Conducted (Telecom Port) Test Site Registration No. T-1597

