# RF TEST REPORT



### Report No.: RF\_FCC IC\_ SL18091001-SEV-074\_BLE\_Rev1.0 Supersede Report No.: RF\_FCC IC\_ SL18091001-SEV-074\_BLE

Applicant	:	Getaround, Inc
Product Name	• •	Bluetooth Module
Model No.	• •	CU002927
Host Model No.	:.	Connect 4M
Test Standard	:	47 CFR 15.247
	·	RSS-247 Issue 2, February 2017
		ANSI C63.10: 2013
Test Method	:	RSS Gen Iss 5: April 2018
		KDB 558074 D01 15.247 Meas Guidance v05r01
FCC ID	•••	2AOTVCU002927
IC	•••	23570-CU002927
Dates of test	:	01/25/2019 - 01/30/2019
Issue Date	• •	05/06/2019
Test Result	•••	🖾 Pass 🛛 Fail
Equipment complied with the specification [X] Equipment did not comply with the specification [ ]		

This Test Report is Issued Under the Authority of:	
Shuo	and
Shuo Zhang	Chen Ge
Test Engineer	Engineer Reviewer

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



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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 testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### 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
Israel	MOC, NIST	EMC, RF, Telecom, Safety

### **Accreditations for Product Certifications**

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

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**Report Revision History** 1

Report No.	Report Version	Description	Issue Date
RF_FCC IC_SL18091001-SEV-074_BLE	None	Original	02/11/2019
RF_FCC IC_SL18091001-SEV-074_BLE_Rev1.0	1.0	Update antenna gain	05/06/2019

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### 2 <u>Executive Summary</u>

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

Company:Getaround, IncProduct:Bluetooth ModuleModel:CU002927

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

### 3 Customer information

Applicant Name	Getaround, Inc
Applicant Address	1177 Harrison Street San Francisco, CA 94103, USA
Manufacturer Name	Getaround, Inc
Manufacturer Address	1177 Harrison Street San Francisco, CA 94103, USA

### 4 Test site information

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

### 5 Modification

Index	ltem	Description	Note
-	-	-	-

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6 **EUT Information** 

#### EUT Description <u>6.1</u>

Product Name	Bluetooth Module
Module Model No.	CU002927
Host Model No.	Connect 4M
Input Power	12 V Battery Powered
Product Hardware version	N/A
Date of EUT received	01/01/2019
Equipment Class/ Category	DTS
Port/Connectors	N/A
Remark	N/A

#### <u>6.2</u> Radio Description

Bluetooth LE:

Radio Type	Bluetooth (Ver4.1)
Operating Frequency	2402MHz-2480MHz
Modulation	GFSK
Channel Spacing	2MHz
Antenna Type	SMD
Antenna Gain	1.5 dBi
Antenna Connector Type	u.FL
Note	N/A

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# 7 Supporting Equipment/Software and cabling Description

#### <u>7.1</u> Supporting Equipment

ltem	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
					-
					-

### 7.2 Test Software Description

Test Item Software		Description
RF Testing	N/A	Set the EUT to transmit continuously in diferent test mode

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#### **Test Summary** 8

Test Item	Test standard			Test Method/Procedure	Pass / Fail
Restricted Band of Operation	FCC	15.205	FCC	ANSI C63.10:2013	⊠ Pass
Restricted Band of Operation	IC	RSS Gen 8.10	IC	KDB 558074 D01 15.247 Meas Guidance v05r01	□ N/A
	FCC	15.207(a)	FCC	ANSI C63.10:2013	Pass
AC Conducted Emissions	IC	RSS Gen 8.8	IC	RSS Gen Iss 5: April 2018	🖾 N/A

#### **DTS Band Requirement**

Te	est Item		Test standard		Test Method/Procedure	Pass / Fail
	nied Bandwidth	-	-	-	-	Pass
99% Occupied Bandwidth		IC	RSS Gen 6.6	IC	RSS Gen Iss 5: April 2018	🖾 N/A
6dB Bandwidth		FCC	15.247(a)(2)	FCC	KDB 558074 D01 15.247 Meas Guidance v05r01	□ Pass
OUD	Danuwidin	IC	RSS247 (5.2.1)	IC	NDB 550074 D01 15.247 Meas Guidance V05101	🖾 N/A
	e and Radiated	FCC	15.247(d)	FCC	ANSI C63.10:2013	⊠ Pass
Spuriou	is Emissions	IC	RSS247 (5.5)	IC	KDB 558074 D01 15.247 Meas Guidance v05r01	□ N/A
Output Power		FCC	15.247(b)	FCC	KDB 558074 D01 15.247 Meas Guidance v05r01	Pass
		IC	RSS247 (5.4.4)	IC	KDB 550074 D01 15.247 Meas Guidance V05101	🖾 N/A
Receiver Sp	urious Emissions	IC	RSS Gen (4.8)	IC	RSS Gen Iss 5: April 2018	□ Pass ⊠ N/A
Antonno	Gain > 6 dBi	FCC	15.247(e)	FCC	-	□ Pass
Antenna	Gain > 0 0Bi	IC	-	IC	-	⊠ N/A
Dowor Sr	postral Dopoity	FCC	15.247(e)	FCC		□ Pass
Fuwer Sp	pectral Density	IC	RSS247 (5.2.2)	IC	KDB 558074 D01 15.247 Meas Guidance v05r01	🖾 N/A
	ure requirement	FCC	15.247(i)	FCC	-	Pass
RF EXPOSI	ure requirement	IC	RSS Gen(5.5)	IC	RSS Gen Iss 5: April 2018	⊠ N/A
Remark	2. The app all norm	olicant shal nal operatin	l ensure frequency stabili g conditions as specified	ity by sho	deration for all presented test results. wing that an emission is maintained within the band of oper's manual.	

3. Only radiated spurious emission test in this report, for other test item, please see FCC ID: 2AOTVCU002927, IC: 23570-CU002927 report no. .FCC\_IC\_RF\_SL17110701-SEV-050A3.

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# 9 Measurement Uncertainty

Emissions				
Test Item	Frequency Range	Description	Uncertainty	
AC Conducted Emissions	150KHz – 30MHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2	±3.5dB	
RF conducted measurement	150KHz – 40GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2	±0.95dB	
Radiated Spurious Emissions	30MHz – 1GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	±6dB	
Radiated Spurious Emissions	1GHz – 40GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	±6dB	

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### 10 Measurements, Examination and Derived Results

### 10.1 Antenna Requirement

Spec	Requirement	Applicable
§15.203	<ul> <li>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.</li> <li>Antenna requirement must meet at least one of the following: <ul> <li>a) Antenna must be permanently attached to the device.</li> <li>b) The antenna must use a unique type of connector to attach to the device.</li> <li>c) Device must be professionally installed. The installer shall be responsible for ensuring that the correct antenna is employed by the device.</li> </ul> </li> </ul>	
Remark	The BLE radio uses a u.fl connector for antenna connection which meet the requirement	ent.
Result	⊠ PASS □ FAIL	

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### 10.2 Radiated Spurious Emissions in restricted band

#### Requirement(s):

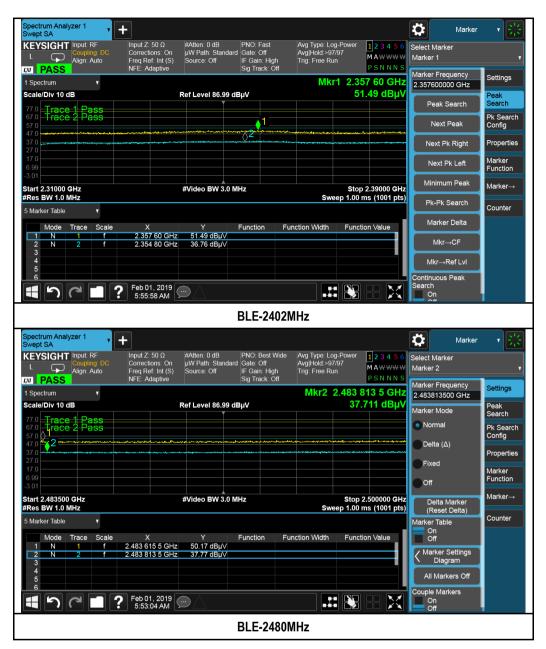
Dec	Item	Requirement	Applicable
47CFR§15.247(d), RSS247(A8.5)	a)	For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required	
	b)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	
Test Setup		Semi Anechoic Chamber Radio Absorbing Material	pectrum Analyzer
Procedure	1. 2. 3. 4.	<ul> <li>The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency points obtained from the EUT char Maximization of the emissions, was carried out by rotating the EUT, changing the ante and adjusting the antenna height in the following manner: <ul> <li>a. Vertical or horizontal polarisation (whichever gave the higher emission leve rotation of the EUT) was chosen.</li> <li>b. The EUT was then rotated to the direction that gave the maximum emission c. Finally, the antenna height was adjusted to the height that gave the maximum An average measurement was then made for that frequency point.</li> </ul> </li> </ul>	enna polarizatio l over a full n. um emission.
Remark	show on	was scanned up to 40GHz. Both horizontal and vertical polarities were investigated y the worst case. Radiated measurement was measured with antenna port terminate ng emission found at the edge of restricted frequency, within x dB margin	
Result	⊠ Pass	□ Fail	
Result Test Data □ Yes (S Test Plot ⊠ Yes (S Test was done by Shu	ee below) ee below)	⊠ N/A □ N/A	

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**Restricted Band Measurement Plots:** 



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### 10.3 Radiated Spurious Emissions below 1GHz

#### Requirement(s):

Spec	Item	Requirement	Applicable
47CFR§15.247(d) RSS247 (5.5)	a)	Except higher limit as specified elsewhere in other section, the emissions from th 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 bane 	
Test Setup		Semi Anechoic Chamber Radio Absorbing Material	Spectrum Analyzer
Procedure	1. 2. 3. 4.	<ul> <li>The EUT was switched on and allowed to warm up to its normal operating conditi</li> <li>The test was carried out at the selected frequency points obtained from the EUT of Maximization of the emissions, was carried out by rotating the EUT, changing the polarization, and adjusting the antenna height in the following manner: <ul> <li>a. Vertical or horizontal polarisation (whichever gave the higher emission rotation of the EUT) was chosen.</li> <li>b. The EUT was then rotated to the direction that gave the maximum emistic. Finally, the antenna height was adjusted to the height that gave the maximum emistic. Steps 2 and 3 were repeated for the next frequency point, until all selected frequences and a superior of the emission of the next frequency point.</li> </ul> </li> </ul>	characterisation. antenna level over a full ssion. ximum emission.
Remark		UT was scanned up to 1GHz. Both horizontal and vertical polarities were investigat only the worst case.	ed. The results

Test Plot $\boxtimes$  Yes (See below) $\square$  N/A

Test was done by Shuo Zhang at 10m chamber.

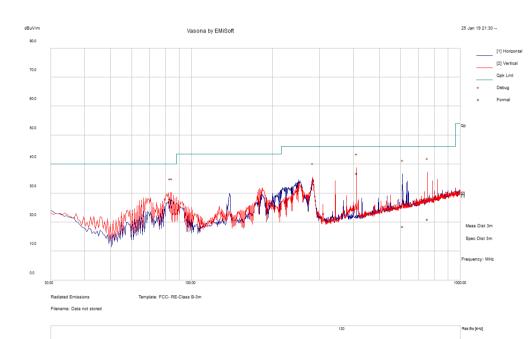
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### Radiated Emission Test Results (Below 1GHz)

Test specification	below 1GHz			
	Temp (°C): 26.1			
Environmental Conditions:	Humidity (%)	47.5		
	Atmospheric (mbar):			
Mains Power:	120VAC, 60Hz	120VAC, 60Hz		
Tested by:	Shuo Zhang			
Test Date:	01/26/2019			
Remarks:	BLE, middle channel			



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
411.45	43.04	13.87	-20	36.92	Quasi Max	V	100	91	46	-9.09	Pass
754.31	20.54	15.34	-14.84	21.03	Quasi Max	V	106	29	46	-24.97	Pass
610.91	20.5	14.61	-16.48	18.62	Quasi Max	Н	142	251	46	-27.38	Pass
83.14	44.06	11.71	-27.71	28.06	Quasi Max	V	106	319	40	-11.94	Pass
84.40	43.73	11.72	-27.71	27.74	Quasi Max	V	106	356	40	-12.26	Pass
282.71	42.09	13.19	-22.16	33.13	Quasi Max	V	218	46	46	-12.88	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

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### 10.4 Radiated Spurious Emissions between 1GHz – 25GHz

#### Requirement(s):

	Item Requirement	Applicable				
<sup>1</sup> 7CFR§15.247(d) RSS247(A8.5)	which the spread spectrum or digitally the radio frequency power that is prod least 20 dB or 30dB below that in the					
		comply with the radiated emission limits				
Test Setup	Semi Anechoid Radio Absorbing Material	3m Antenna 14m Spectrum Analyze				
Procedure	<ol> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization and adjusting the antenna height in the following manner:         <ul> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ul> </li> <li>An average measurement was then made for that frequency point.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>					
Remark		ontal and vertical polarities were investigated. The results g emission found at the edge of restricted frequency.				
	🛛 Pass 🛛 🗆 Fail					

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### Radiated Emission Test Results (Above 1GHz)

### Above 1GHz-25GHz- BLE - 2402MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
5952.35	41.24	4.8	-0.5	45.54	Peak Max	۷	100	190	74	-28.47	Pass
4890.05	41.52	4.19	-1.02	44.69	Peak Max	۷	102	332	74	-29.31	Pass
3988.74	41.82	3.84	-0.32	45.35	Peak Max	۷	130	14	74	-28.66	Pass
5952.35	27.82	4.8	-0.5	32.12	Average Max	V	100	190	54	-21.88	Pass
4890.05	28.37	4.19	-1.02	31.54	Average Max	۷	102	332	54	-22.47	Pass
3988.74	28.34	3.84	-0.32	31.86	Average Max	V	130	14	54	-22.14	Pass

#### Above 1GHz-25GHz- BLE - 2440MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6826.94	40.16	5.03	-0.33	44.86	Peak Max	V	286	346	74	-29.14	Pass
3224.92	41.84	3.45	-1.53	43.76	Peak Max	۷	329	168	74	-30.24	Pass
4455.62	41.08	4.19	-1.26	44.01	Peak Max	V	119	233	74	-29.99	Pass
6826.94	27.32	5.03	-0.33	32.03	Average Max	۷	286	346	54	-21.97	Pass
3224.92	29.48	3.45	-1.53	31.4	Average Max	۷	329	168	54	-22.6	Pass
4455.62	27.93	4.19	-1.26	30.86	Average Max	۷	119	233	54	-23.14	Pass

### Above 1GHz-25GHz- BLE - 2480MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
7139.24	41.03	5.13	-0.43	45.72	Peak Max	V	178	77	74	-28.28	Pass
4305.03	40.55	4.01	-1.15	43.41	Peak Max	V	263	347	74	-30.59	Pass
3403.21	41.43	3.54	-1.68	43.28	Peak Max	V	130	0	74	-30.72	Pass
7139.24	27.34	5.13	-0.43	32.04	Average Max	V	178	77	54	-21.96	Pass
4305.03	27.82	4.01	-1.15	30.68	Average Max	۷	263	347	54	-23.32	Pass
3403.21	29.13	3.54	-1.68	30.99	Average Max	V	130	0	54	-23.01	Pass

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# Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Radiated Emissions				I	1	
Spectrum Analyzer	N9010A	10SL0219	05/13/2018	1 Year	05/13/2019	✓
Bi-Log antenna (30MHz~1GHz)	JB1	A030702	03/09/2018	1 Year	03/09/2019	~
Horn Antenna (1GHz~18GHz)	3115	100059	11/09/2018	1 Year	11/09/2019	~
Horn Antenna (18GHz~40GHz)	PA-840	181251	06/23/2018	1 Year	06/23/2019	•
Preamplifier (100KHz-7GHz)	LPA-6-30	11170602	03/09/2018	1 Year	03/09/2019	~
Preamplifier (0.01-50 GHz)	RAMP00M50GA	17032300047	02/19/2018	1 Year	02/19/2019	•

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### Annex B. SIEMIC Accreditation

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

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

775 Montague Expressway, Milpitas, CA 95035, USA • Phone: (+1) 408 526 1188 • Facsimile (+1) 408 526 1088 Visit us at: www.siemic.com: Follow us at: