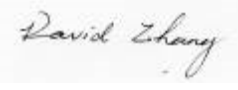



RF TEST REPORT







Report No.: FCC_RF_SL13112613-CPC-015
Supersede Report No.: NONE

Applicant	ChargePoint, Inc.		
Product Name	RFID Reader		
Model No.	CR1692		
Test Standard	47CFR15.225: 2013 RSS210 Issue8: 2010		
Test Method	ANCI C63.4:2009 47CFR15.225: 2013, RSS210 Issue8: 2010		
FCC ID	W38-CR1692		
IC ID	8854A-CR1692		
Date of test	12/29/2013 - 12/30/ 2013		
Issue Date	12/31/2013		
Test Result	<u>Pass</u>	Fail	
Equipment complied with the specification			[x]
Equipment did not comply with the specification			[]
			
David Zhang		Choon Sian Ooi	
Test Engineer		Engineer Reviewer	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only			

Issued By:
SIEMIC Laboratories
775 Montague Expressway, Milpitas, 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

Accreditations for Product Certifications

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

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1 Report Revision History

Report No.	Report Version	Description	Issue Date
FCC_RF_SL13112613-CPC-015	None	Original	12/31/2013

2 Executive Summary

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

Company: ChargePoint, Inc.
Product: RFID Reader
Model: CR1692

to be installed into a printer host (Printer Model: CT600) and simultaneously transmission with FCC certified Gobi cellular radio module (FCC ID: N7NMC8355, IC ID: 2417C-MC8355), against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1st page.

3 Customer information

Applicant Name	ChargePoint, Inc.
Applicant Address	1692 Dell Ave., Campbell, CA 95008, USA
Manufacturer Name	ChargePoint, Inc.
Manufacturer Address	1692 Dell Ave., Campbell, CA 95008, USA

4 Test site information

Lab performing tests	SIEMIC Laboratories
Lab Address	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	881796
IC Test Site No.	4842D-2
VCCI Test Site No.	A0133

5 Modification

Index	Item	Description	Note
-	-	-	-

6 EUT Information

6.1 EUT Description

Product Name	RFID Reader
Model No.	CR1692
Trade Name	ChargePoint
Serial No.	17091
Input Power	5VDC
Power Adapter Manu/Model	N/A
Power Adapter SN	-
Hardware version	N/A
Software version	N/A
Date of EUT received	12/23/2013
Equipment Class/ Category	Class B
Clock Frequencies	13.56MHz
Port/Connectors	N/A
Remark	NONE

6.2 Radio Description

Spec for Radio –

Radio Type	RFID
Operating Frequency	13.56MHz
Modulation	AM
Antenna Type	Mag Loop Antenna Integral
Antenna Gain	N/A

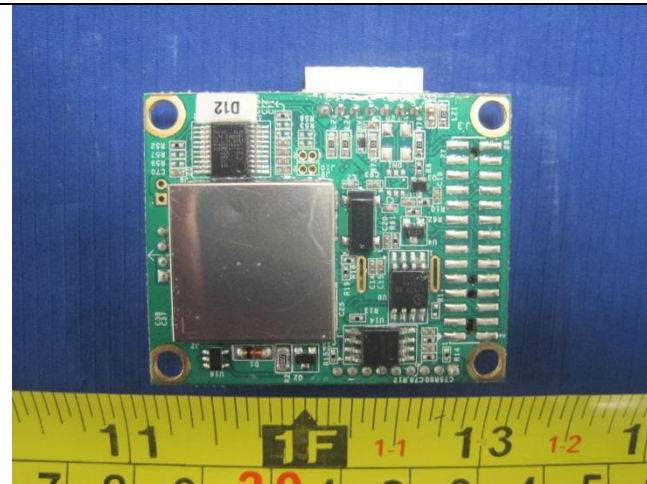
6.3 EUT test modes/configuration Description

Test mode

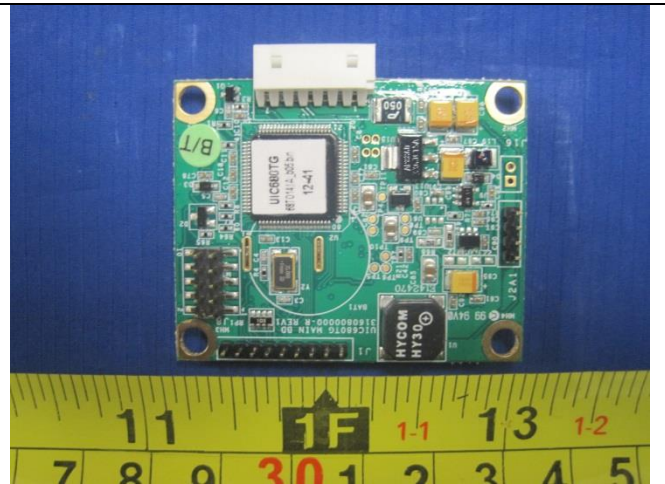
	Final Test Mode	Note
Final_test_mode_1	13.56MHz Cont TX + Gobi CDMA 850MHz	-
Final_test_mode_2	13.56MHz Cont TX + Gobi CDMA 1900MHz	-
Final_test_mode_3	-	-
Final_test_mode_4	-	-
Final_test_mode_5	-	-
Final_test_mode_6	-	-
Final_test_mode_7	-	-
Final_test_mode_8	-	-
Final_test_mode_9	-	-

Remark: RFID module will be transmitting with Gobi cellular radio module simultaneously.

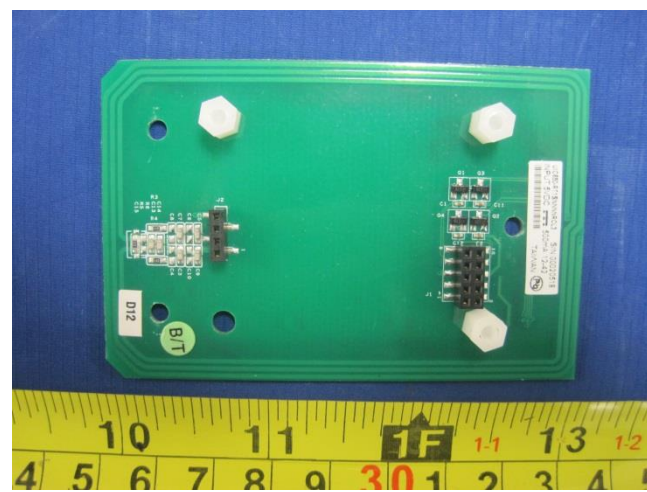
6.4 EUT Photos - External



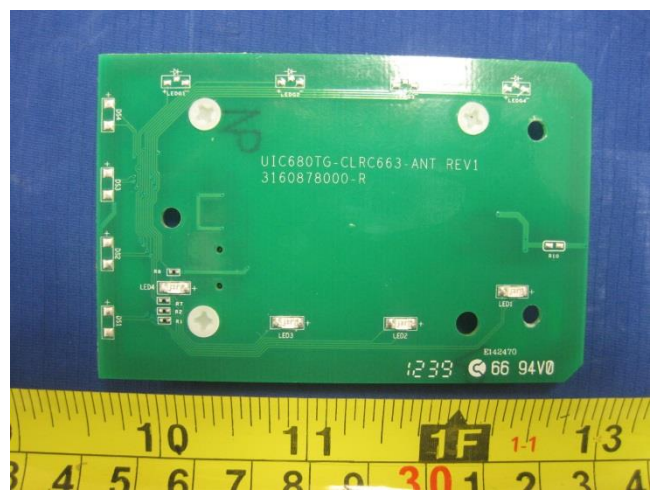
EUT - Top View



EUT - Bottom View

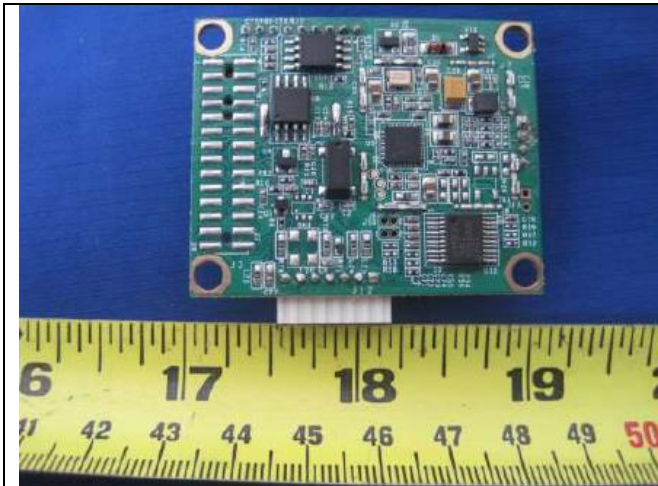


Antenna Top View

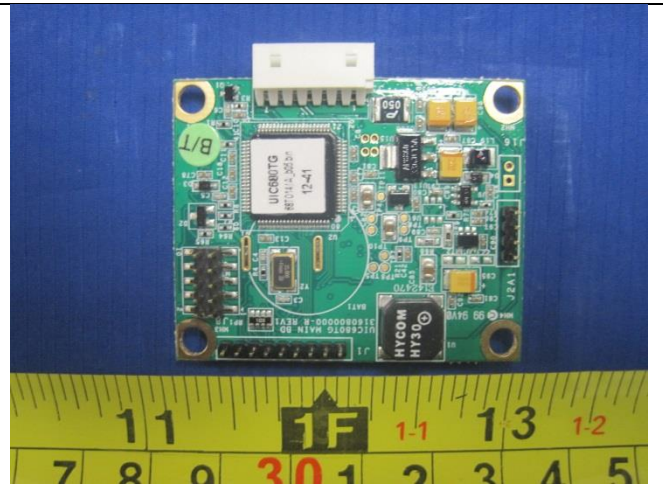


Antenna Bottom View

6.5 EUT Photos - Internal



Radio module Top View



Radio module Bottom View

6.6 Host Photo



Top Side View



Bottom Side View



Front Side View Side



Rear View Side



Left Side View

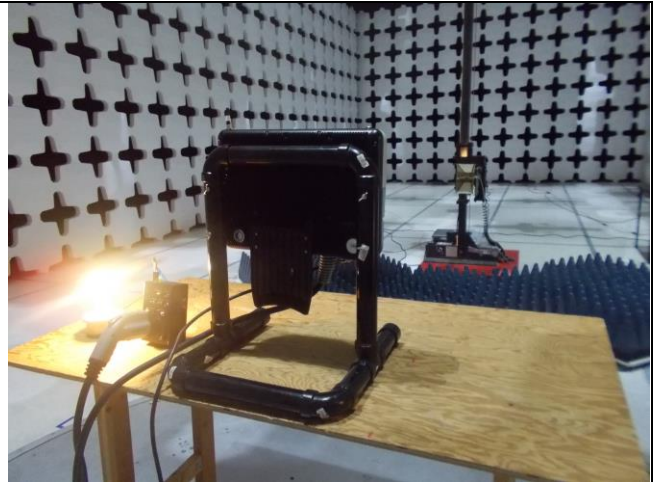


Right Side View

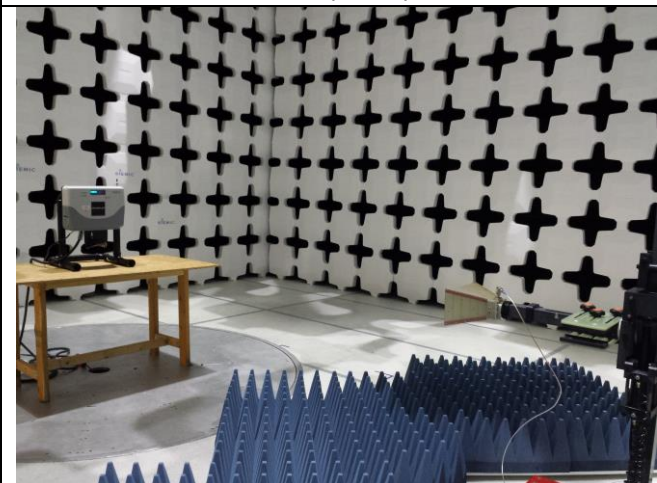
6.7 EUT Test Setup Photos



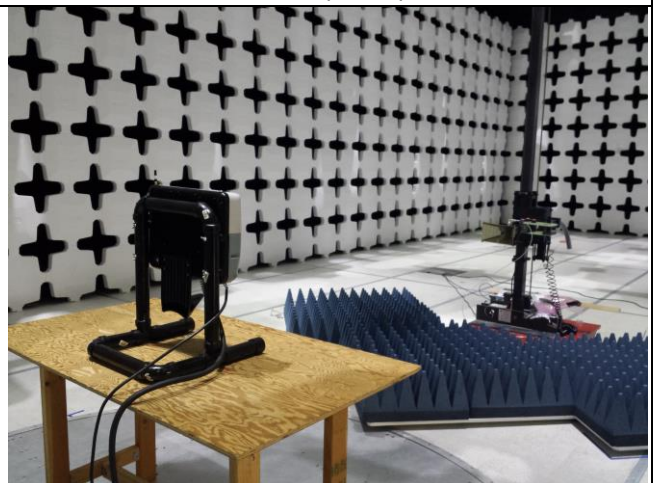
Radiated Emissions (<1GHz) – Front View



Radiated Emissions (<1GHz) – Rear View



Radiated Emissions (>1GHz) – Front View



Radiated Emissions (>1GHz) – Rear View

7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
-	-	-	-	-	-

7.2 Test Software Description

Test Item	Software	Description
-	-	-

8 Test Summary

Emissions			
Test Item	Test standard	Test Method/Procedure	Pass / Fail
Radiated Emission below 1GHz	47CFR15.225: 2013 RSS210 Issue8: 2010	ANCI C63.4:2009	Pass
Radiated Emission above 1GHz	47CFR15.225: 2013 RSS210 Issue8: 2010	ANCI C63.4:2009	Pass

9 Measurement Uncertainty

Emissions			
Test Item	Frequency Range	Description	Uncertainty
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)	+5.6dB/-4.5dB
Radiated Spurious Emissions	1Hz – 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)	+4.3dB/-4.1dB

10 Measurements, Examination and Derived Results

10.1 Radiated Emissions below 1GHz

Requirement(s):

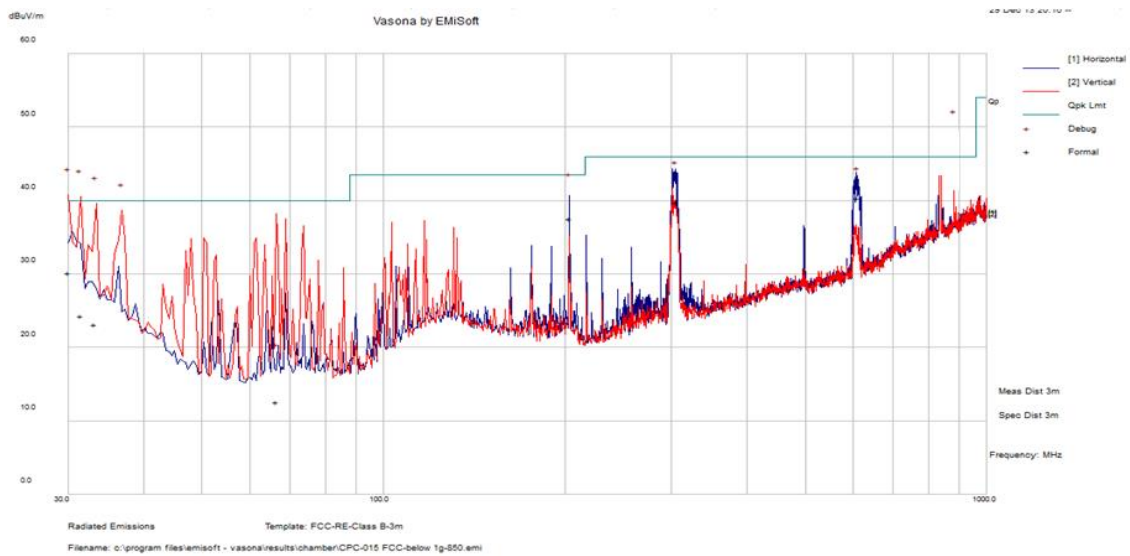
Spec	Item	Requirement	Applicable							
47 CFR §15.225 RSS-210 (A2.6)	a)	Operation within the band 13.110–14.010 MHz. (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters. (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters. (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters. (d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.	<input checked="" type="checkbox"/>							
		<table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (uV/m)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>		Frequency range (MHz)	Field Strength (uV/m)	30 – 88	100	88 – 216	150	216 960
Frequency range (MHz)	Field Strength (uV/m)									
30 – 88	100									
88 – 216	150									
216 960	200									
Above 960	500									
Test Setup										
Procedure	<ol style="list-style-type: none"> 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 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: <ol style="list-style-type: none"> Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. A Quasi-peak measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured. 									
Remark										
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail									

Test Data Yes (See below) N/A

Test Plot Yes (See below) N/A

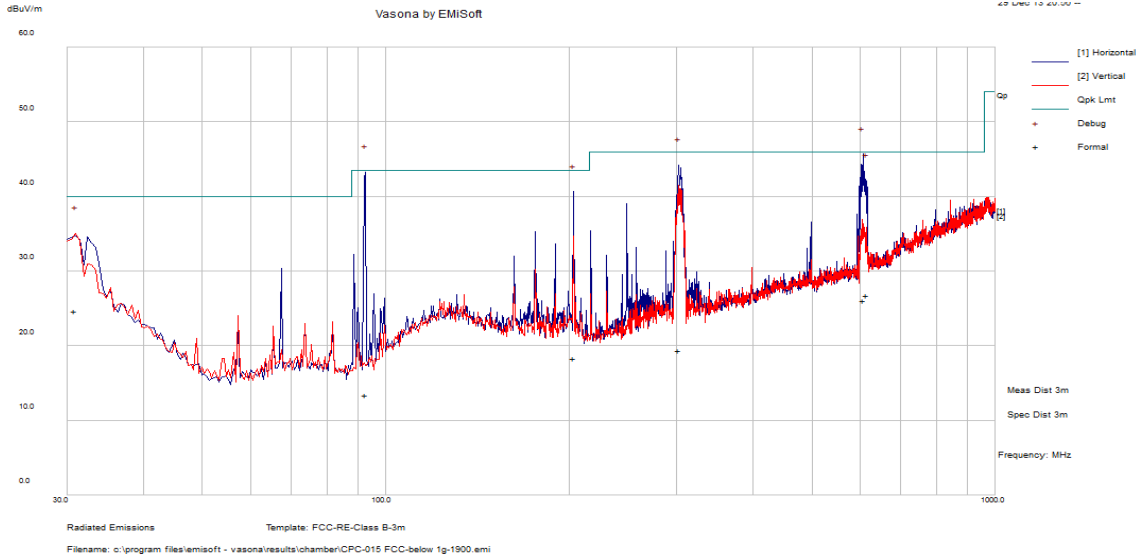
Radiated Emission Test Results (Below 1GHz)

Test specification	below 1GHz		Result	Pass
Environmental Conditions:	Temp (°C):	21		
	Humidity (%)	42		
	Atmospheric (mbar):	1027		
Mains Power:	220VAC, 50Hz			
Tested by:	David Zhang			
Test Date:	30-Dec-13			
Remarks:	13.56MHz Cont TX + Gobi CDMA 850			



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
30.00	34.82	0.64	-5.24	30.22	Quasi Max	V	151.00	163.00	40.00	-9.78	Pass
31.48	30.05	0.66	-6.39	24.32	Quasi Max	V	205.00	208.00	40.00	-15.68	Pass
33.22	30.12	0.67	-7.69	23.10	Quasi Max	V	362.00	88.00	40.00	-16.90	Pass
203.37	50.00	2.48	-14.91	37.57	Quasi Max	H	115.00	218.00	43.50	-5.93	Pass
305.82	50.69	2.97	-13.90	39.76	Quasi Max	H	103.00	248.00	46.00	-6.24	Pass
609.947	44.67	4.32	-8.64	40.35	Quasi Max	H	101	218	46	-5.65	Pass
66.469	29.81	1.16	-18.4	12.58	Quasi Max	H	113	233	40	-27.42	Pass

Test specification	below 1GHz		Result
Environmental Conditions:	Temp (°C):	21	
	Humidity (%)	42	
	Atmospheric (mbar):	1027	
Mains Power:	220VAC, 50Hz		
Tested by:	David Zhang		
Test Date:	30-Dec-13		
Remarks:	13.56MHz Cont TX + Gobi CDMA 1900		



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
92.81	29.93	1.57	-18.15	13.35	Quasi Max	H	175.00	85.00	43.50	-30.15	Pass
606.89	30.64	4.31	-8.88	26.06	Quasi Max	H	207.00	21.00	46.00	-19.94	Pass
302.67	30.40	2.96	-13.93	19.42	Quasi Max	H	132.00	213.00	46.00	-26.58	Pass
203.16	30.66	2.48	-14.87	18.27	Quasi Max	H	133.00	27.00	43.50	-25.23	Pass
614.51	30.66	4.34	-8.28	26.72	Quasi Max	H	303.00	254.00	46.00	-19.28	Pass
30.916	30.12	0.65	-6.07	24.7	Quasi Max	V	178	10	40	-15.3	Pass

10.2 Radiated Spurious Emissions above 1GHz

Requirement(s):

Spec	Item	Requirement	Applicable										
47 CFR §15.225 RSS-210 (A2.6)	a)	Operation within the band 13.110–14.010 MHz. (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters. (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters. (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters. (d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209. <table border="1" style="margin-top: 10px;"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (uV/m)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>	Frequency range (MHz)	Field Strength (uV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	<input checked="" type="checkbox"/>
Frequency range (MHz)	Field Strength (uV/m)												
30 – 88	100												
88 – 216	150												
216 960	200												
Above 960	500												
Test Setup													
Procedure	1. 2. 3. 4.	<p>The EUT was switched on and allowed to warm up to its normal operating condition.</p> <p>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:</p> <ol style="list-style-type: none"> Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. <p>A Quasi-peak measurement was then made for that frequency point.</p> <p>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p>											
Remark													
Result		<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail											

Test Data Yes (See below) N/A

Test Plot Yes (See below) N/A

Radiated Emission Test Results (Above 1GHz)

Test Result with 13.56MHz and Gobi Radio module transmit simultaneously

Above 1GHz-40G-Mode1: RFID (13.56MHz) + Gobi Radio module at CDMA 850MHz band (mid CH)

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
1219.50	68.75	0.94	-6.74	62.94	Peak Max	H	160.00	356.00	74.00	-11.06	Pass
1527.35	58.50	1.16	-6.17	53.50	Peak Max	H	111.00	48.00	74.00	-20.50	Pass
1500.65	55.08	1.14	-6.28	49.94	Peak Max	H	107.00	65.00	74.00	-24.06	Pass
1219.50	50.91	0.94	-6.74	45.10	Average Max	H	160.00	356.00	54.00	-8.90	Pass
1527.35	39.55	1.16	-6.17	34.54	Average Max	H	111.00	48.00	54.00	-19.46	Pass
1500.65	32.6	1.14	-6.28	27.46	Average Max	H	107	65.00	54.00	-26.54	Pass

Above 1GHz-40G-Mode2: RFID (13.56MHz) + Gobi Radio module at CDMA 1900MHz band (mid CH)

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
1525.75	59.65	1.16	-6.18	54.64	Peak Max	H	137.00	45.00	74.00	-19.36	Pass
1206.17	67.79	0.92	-6.77	61.95	Peak Max	H	109	357	74.00	-12.05	Pass
3704.46	45.11	2.17	-0.75	46.53	Peak Max	V	252	57	74.00	-27.47	Pass
1189.18	64.35	0.91	-6.8	58.46	Peak Max	V	118	343	74.00	-15.54	Pass
1189.18	43.88	0.91	-6.80	37.99	Average Max	V	118.00	343.00	54.00	-16.01	Pass
1525.75	40.16	1.16	-6.18	35.15	Average Max	H	137.00	45.00	54.00	-18.85	Pass
3704.46	30.25	2.17	-0.75	31.67	Average Max	H	257.00	356.00	54.00	-22.33	Pass
1206.17	45.17	0.92	-6.77	39.33	Average Max	V	147.00	344.00	54.00	-14.67	Pass

Annex A. TEST INSTRUMENT

















Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Conducted Emissions						
R & S Receiver	ESIB 40	100179	04/20/2013	1 Year	04/20/2014	<input type="checkbox"/>
R&S LISN	ESH2-Z5	861741/013	05/18/2013	1 Year	05/18/2014	<input type="checkbox"/>
CHASE LISN	MN2050B	1018	07/24/2013	1 Year	07/24/2014	<input type="checkbox"/>
Sekonic Hygro Hermograph	ST-50	HE01-000092	05/25/2013	1 Year	05/25/2014	<input type="checkbox"/>
Radiated Emissions						
R & S Receiver	ESL6	100178	03/01/2013	1 Year	03/01/2014	<input checked="" type="checkbox"/>
R & S Receiver	ESIB 40	100179	04/20/2013	1 Year	04/20/2014	<input checked="" type="checkbox"/>
ETS-Lingren Loop Antenna	6512	00049120	05/13/2013	1 Year	05/13/2014	<input checked="" type="checkbox"/>
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	02/09/2013	1 Year	02/09/2014	<input checked="" type="checkbox"/>
Horn Antenna (1-26.5GHz)	3115	10SL0059	04/26/2013	1 Year	04/26/2014	<input checked="" type="checkbox"/>
Horn Antenna (18-40 GHz)	AH-840	101013	04/23/2013	1 Year	04/23/2014	<input checked="" type="checkbox"/>
Pre-Amplifier (1-26.5GHz)	8449B	3008A00715	05/30/2013	1 Year	05/30/2014	<input checked="" type="checkbox"/>
Microwave Preamplifier (18-40 GHz)	PA-840	181251	05/30/2013	1 Year	05/30/2014	<input checked="" type="checkbox"/>
3 Meters SAC	3M	N/A	10/13/2012	1 Year	10/13/2013	<input type="checkbox"/>
10 Meters SAC	10M	N/A	06/05/2013	1 Year	06/05/2014	<input checked="" type="checkbox"/>
Sekonic Hygro Hermograph	ST-50	HE01-000092	05/25/2013	1 Year	05/25/2014	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	111078	6/7/2013	1 Year	6/7/2014	<input checked="" type="checkbox"/>
RF Conducted Measurement						
Spectrum Analyzer	N9010A	MY50210206	05/30/2013	1 Year	05/30/2014	<input type="checkbox"/>
Spectrum Analyzer	E4407B	US88441016	05/31/2013	1 Year	05/31/2014	<input type="checkbox"/>
R & S Receiver	ESIB 40	100179	04/20/2013	1 Year	04/20/2014	<input type="checkbox"/>
Universal Radio Communication Tester	CMU200	111078	6/7/2013	1 Year	6/7/2014	<input type="checkbox"/>




Test report No.	FCC_RF_SL13112613-CPC-015
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Annex B. USER MANUAL, BLOCK & CIRCUIT DIAGRAM

Please see attachment

Annex C. 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
EU NB		Radio & Telecommunications Terminal Equipment: EN45001 – EN ISO/IEC 17025
		Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)	 	Phase I, Phase II
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
HongKong OFCA		(Phase II) OFCA Foreign Certification Body for Radio and Telecom
		(Phase I) Conformity Assessment Body for Radio and Telecom
Industry Canada CAB		Radio: Scope A – All Radio Standard Specification in Category I
		Telecom: CS-03 Part I, II, V, VI, VII, VIII

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