

RF TEST REPORT



Report No.: RF_FCC IC_ SL18091001-SEV-074_LTE_Rev1.0
Supersede Report No.: RF_FCC IC_ SL18091001-SEV-074_LTE

Applicant	Getaround, Inc.
Product Description	Cellular Module
Module Model No.	SARA-R410M
Host Model No.	Connect 4M
FCC ID	2AOTVCU003020
IC	23570-CU003020
Test Standard	47CFR Part 22, 24, 27 RSS-Gen Issue 5 RSS-130 Issue 2 RSS-133 Issue 6 RSS-139 Issue 3
Test Method	ANSI C63.26-2015 ANSI/TIA-603-E-2016 KDB 971168 D01 v03r01
Date of test	01/25/2019 - 01/30/2019
Issue Date	04/11/2019
Test Result	<u>Pass</u> Fail
Equipment complied with the specification	[x]
Equipment did not comply with the specification	[]
	
Shuo Zhang	Chen Ge
Test Engineer	Engineer Reviewer

Issued By:
SIEMIC Laboratories
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Laboratory Introduction

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Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC , RF/Wireless , Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless , Telecom
Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom , Safety
Hong Kong	OFTA , NIST	RF/Wireless , Telecom
Australia	NATA, NIST	EMC, RF, Telecom , Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF , Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC , RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom , Safety
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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1 Report Revision History

Report No.	Report Version	Description	Issue Date
RF_FCC IC_ SL18091001-SEV-074_LTE	None	Original	02/11/2019
RF_FCC IC_ SL18091001-SEV-074_LTE_Rev1.0	1.0	Update referenced report	04/11/2019

2 Executive Summary

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

Company: Getaround, Inc
Product Cellular Module
Description:
Model no.: SARA-R410M

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

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	Item	Description	Note
-	-	-	-

6 EUT Information

6.1 EUT Description

Module Model No.	SARA-R410M
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	PCB
Port/Connectors	N/A
Remark	N/A

6.2 Radio Description

Item	LTE-M		
Operating Band /Radio Type	Band 2	Band 4	Band 12
Bandwidth	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz	1.4MHz, 3MHz, 5MHz, 10MHz
Modulation	QPSK/16QAM	QPSK/16QAM	QPSK/16QAM
Antenna Type	Omnidirectional Antenna	Omnidirectional Antenna	Omnidirectional Antenna
Antenna Gain	3.2 dBi	3.2 dBi	1.0 dBi
Frequency TX(MHz)	TX: 1850 MHz to 1910 MHz RX: 1930 MHz to 1990 MHz	TX: 1710 MHz to 1755 MHz RX: 2110 MHz to 2155 MHz	TX: 699 MHz to 716 MHz RX: 729 MHz to 746 MHz

6.3 EUT test modes/configuration Description

Test mode

Final Test Mode		Note
Final_test_mode_1	Continuous transmission, 5MHz, QPSK	LTE
-	-	-
-	-	-
Remark:		

7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	UXM Wireless Test Set	E7515A	TH54200251	Keysight Technology	-

7.2 Test Software Description

Test Item	Software	Description

8 Test Summary

Test Item		Test standard		Test Method/Procedure		Pass / Fail
Radiated Spurious Emission		FCC	§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	FCC	ANSI C63.26-2015 ANSI/TIA-603-E-2016 KDB 971168 D01 v03r01	☒ Pass ☐ N/A
		IC	RSS-Gen Issue 5 §6.13 RSS-130 Issue 2 §4.6 RSS-133 Issue 6 §6.5 RSS-139 Issue 3 §6.6	IC		
Remark	1. All measurement uncertainties do not take into consideration for all presented test results. 2. The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual. 3. Only radiated spurious emission test in this report, for other test item, please refer to: FCC ID: 2AOTVCU003020, IC: 23570-CU003020					

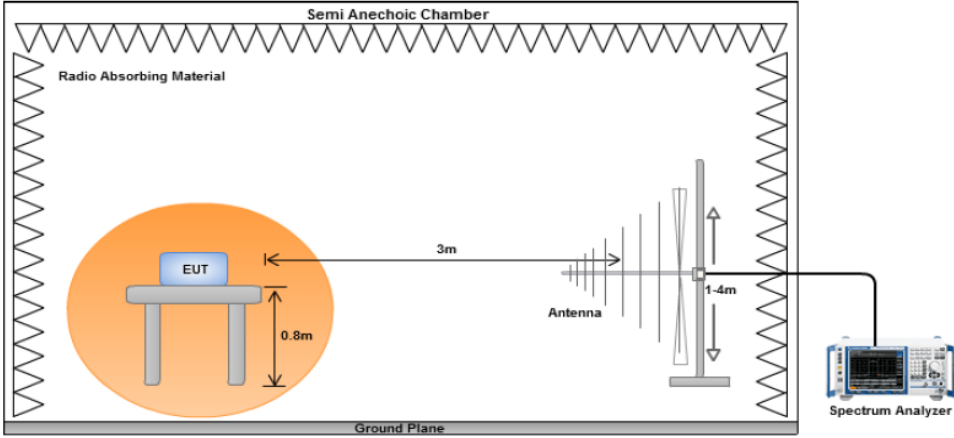
9 Measurement Uncertainty

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

10 Measurements, Examination and Derived Results

10.1 Radiated Spurious Emission below 1GHz

Requirement(s):

Spec	Requirement	Applicable
§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h) RSS-Gen Issue 5 §6.13 RSS-130 Issue 2 §4.6 RSS-133 Issue 6 §6.5 RSS-139 Issue 3 §6.6	Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.	☒
Test Setup		
Test Procedure	<u>Substitution method:</u> - 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: - 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. - Remove the transmitter and replace it with a substitution antenna (the antenna should be half-wavelength for each frequency involved). The center of the substitution antenna should be approximately at the same location as the center of the transmitter. - Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. - Steps 4 were repeated for the next frequency point, until all selected frequency points were measured.	
Test Date	01/25/2019 - 01/30/2019	Environmental condition Temperature 23°C Relative Humidity 48% Atmospheric Pressure 1008mbar
Remark	The EUT was scanned up to 25GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case. Limit calculation: $\text{Emission limit} = \text{Pd}Bm - [43 + 10 \log(PW)] = 10\log(1000 \times PW) - 43 - 10\log(PW) = 30 \text{ dBm} - 43 = -13 \text{ dBm}$ All different modulation and bandwidth configuration has been verified and only the test data of worst case with QPSK modulation and greatest bandwidth was presented in this report.	
Result	☒ Pass ☐ Fail	

Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Shuo Zhang at 10m chamber.

LTE band 2:

Indicated			Test Antenna		Substituted						
Frequency (MHz)	Raw (dBm)	Degree	Height (cm)	Polarity	Frequency (MHz)	Level (dBm)	Ant Gain (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
342	-41.52	0	162	V	342	-38.26	0	0.8	-39.06	-13	-26.06
342	-44.31	120	152	H	342	-38.77	0	0.8	-39.57	-13	-26.57
67	-41.66	171	182	V	67	-39.91	0	0.3	-40.21	-13	-27.21
67	-43.51	169	177	H	67	-37.52	0	0.3	-37.82	-13	-24.82

LTE band 4:

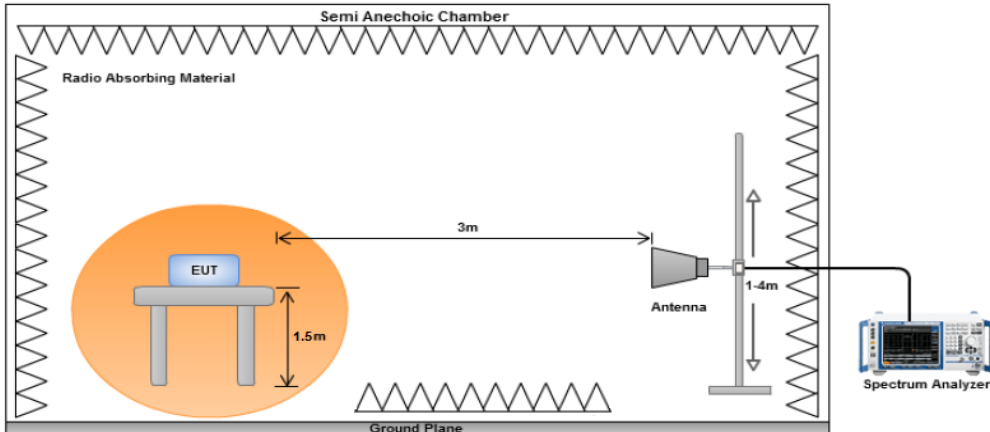
Indicated			Test Antenna		Substituted						
Frequency (MHz)	Raw (dBm)	Degree	Height (cm)	Polarity	Frequency (MHz)	Level (dBm)	Ant Gain (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
184	-43.2	0	162	V	184	-37.68	0	0.5	-38.18	-13	-25.18
184	-46.54	120	152	H	184	-39.72	0	0.5	-40.22	-13	-27.22
80	-42.61	171	182	V	80	-41.3	0	0.3	-41.6	-13	-28.6
80	-46.52	169	177	H	80	-38.72	0	0.3	-39.02	-13	-26.02

LTE band 12:

Indicated			Test Antenna		Substituted						
Frequency (MHz)	Raw (dBm)	Degree	Height (cm)	Polarity	Frequency (MHz)	Level (dBm)	Ant Gain (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
215	-48.2	140	173	V	215	-34.68	0	0.5	-35.18	-13	-22.18
215	-46.72	108	152	H	215	-38.69	0	0.5	-39.19	-13	-26.19
96	-43.28	162	170	V	96	-37.54	0	0.3	-37.84	-13	-24.84
96	-47.64	173	173	H	96	-37.87	0	0.3	-38.17	-13	-25.17

10.2 Radiated Spurious Emissions above 1GHz

Requirement(s):

Spec	Requirement	Applicable
§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h) RSS-Gen Issue 5 §6.13 RSS-130 Issue 2 §4.6 RSS-133 Issue 6 §6.5 RSS-139 Issue 3 §6.6	Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.	☒
Test Setup		
Test Procedure	<u>Substitution method:</u> - 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: - 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. - Remove the transmitter and replace it with a substitution antenna (the antenna should be half-wavelength for each frequency involved). The center of the substitution antenna should be approximately at the same location as the center of the transmitter. - Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. - Steps 4 were repeated for the next frequency point, until all selected frequency points were measured.	
Test Date	01/25/2019 - 01/30/2019	Environmental condition Temperature 23°C Relative Humidity 48% Atmospheric Pressure 1008mbar
Remark	The EUT was scanned up to 25GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case. Limit calculation: $\text{Emission limit} = \text{PdBm} - [43 + 10 \log(\text{PW})] = 10 \log(1000 \times \text{PW}) - 43 - 10 \log(\text{PW}) = 30 \text{ dBm} - 43 = -13 \text{ dBm}$ All different modulation and bandwidth configuration has been verified and only the test data of worst case with QPSK modulation and greatest bandwidth was presented in this report.	
Result	☒ Pass ☐ Fail	

Test Plot ☐ Yes (See below) ☒ N/A

Test was done by Shuo Zhang at 10m chamber.

Radiated Emission Test Results (Above 1GHz)

LTE BAND2 Low Channel:

Indicated			Test Antenna		Substituted						
Frequency (MHz)	Raw (dBm)	Degree	Height (cm)	Polarity	Frequency (MHz)	Level (dBm)	Ant Gain (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
3720	-44.91	63	186	V	3720	-41.09	10.21	1.95	-32.83	-13	-19.83
3720	-49.72	294	217	H	3720	-45.9	10.21	1.95	-37.64	-13	-24.64
7368	-45.28	83	195	V	7368	-39.26	10.51	2.71	-31.46	-13	-18.46
7368	-49.65	148	179	H	7368	-43.63	10.51	2.71	-35.83	-13	-22.83

LTE BAND2 Mid Channel:

Indicated			Test Antenna		Substituted						
Frequency (MHz)	Raw (dBm)	Degree	Height (cm)	Polarity	Frequency (MHz)	Level (dBm)	Ant Gain (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
3760	-44.05	360	197	V	3760	-40.17	9.98	1.95	-32.14	-13	-19.14
3760	-46.46	23	201	H	3760	-42.58	9.98	1.95	-34.55	-13	-21.55
7759	-49.35	286	166	V	7759	-43.56	11.03	2.5	-35.03	-13	-22.03
7759	-46.27	183	194	H	7759	-40.48	11.03	2.5	-31.95	-13	-18.95

LTE BAND2 High Channel:

Indicated			Test Antenna		Substituted						
Frequency (MHz)	Raw (dBm)	Degree	Height (cm)	Polarity	Frequency (MHz)	Level (dBm)	Ant Gain (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
3800	-51.17	59	195	V	3800	-47.22	9.76	1.95	-39.41	-13	-26.41
3800	-40.99	241	208	H	3800	-37.04	9.76	1.95	-29.23	-13	-16.23
7330	-39.85	166	202	V	7330	-33.75	10.46	2.86	-26.15	-13	-13.15
7330	-43.67	217	159	H	7330	-37.57	10.46	2.86	-29.97	-13	-16.97

LTE BAND4 Low Channel:

Indicated			Test Antenna		Substituted						
Frequency (MHz)	Raw (dBm)	Degree	Height (cm)	Polarity	Frequency (MHz)	Level (dBm)	Ant Gain (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
3440	-42.26	294	216	V	3440	-38.57	9.69	1.7	-30.58	-13	-17.58
3440	-51.56	275	212	H	3440	-47.87	9.69	1.7	-39.88	-13	-26.88
7377	-39.29	217	191	V	7377	-33.29	10.53	2.67	-25.43	-13	-12.43
7377	-41.42	49	153	H	7377	-35.42	10.53	2.67	-27.56	-13	-14.56

LTE BAND4 Mid Channel:

Indicated			Test Antenna		Substituted						
Frequency (MHz)	Raw (dBm)	Degree	Height (cm)	Polarity	Frequency (MHz)	Level (dBm)	Ant Gain (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
3465	-41.24	14	168	V	3465	-37.5	9.79	1.72	-29.43	-13	-16.43
3465	-40.99	135	212	H	3465	-37.25	9.79	1.72	-29.18	-13	-16.18
7751	-47.21	343	182	V	7751	-41.42	11.03	2.49	-32.88	-13	-19.88
7751	-45.94	180	158	H	7751	-40.15	11.03	2.49	-31.61	-13	-18.61

LTE BAND4 High Channel:

Indicated			Test Antenna		Substituted						
Frequency (MHz)	Raw (dBm)	Degree	Height (cm)	Polarity	Frequency (MHz)	Level (dBm)	Ant Gain (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
3490	-42.4	130	206	V	3490	-38.61	9.88	1.73	-30.46	-13	-17.46
3490	-47.88	163	150	H	3490	-44.09	9.88	1.73	-35.94	-13	-22.94
7133	-40.72	177	210	V	7133	-34.76	10.38	2.9	-27.28	-13	-14.28
7133	-49.48	213	169	H	7133	-43.52	10.38	2.9	-36.04	-13	-23.04

LTE BAND12 Low Channel:

Indicated			Test Antenna		Substituted						
Frequency (MHz)	Raw (dBm)	Degree	Height (cm)	Polarity	Frequency (MHz)	Level (dBm)	Ant Gain (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
2112	-60.67	297	208	V	2112	-56.23	9.32	1.41	-48.32	-13	-35.32
2112	-57.2	11	195	H	2112	-52.76	9.32	1.41	-44.85	-13	-31.85
7910	-47.84	280	218	V	7910	-42.09	10.86	2.54	-33.77	-13	-20.77
7910	-44.67	137	150	H	7910	-38.92	10.86	2.54	-30.6	-13	-17.6

LTE BAND12 Mid Channel:

Indicated			Test Antenna		Substituted						
Frequency (MHz)	Raw (dBm)	Degree	Height (cm)	Polarity	Frequency (MHz)	Level (dBm)	Ant Gain (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
2122.5	-48.28	172	216	V	2122.5	-43.83	9.34	1.41	-35.9	-13	-22.9
2122.5	-60.64	194	166	H	2122.5	-56.19	9.34	1.41	-48.26	-13	-35.26
7883	-51.8	252	153	V	7883	-46.05	10.9	2.53	-37.68	-13	-24.68
7883	-51.06	256	157	H	7883	-45.31	10.9	2.53	-36.94	-13	-23.94

LTE BAND12 High Channel:

Indicated			Test Antenna		Substituted						
Frequency (MHz)	Raw (dBm)	Degree	Height (cm)	Polarity	Frequency (MHz)	Level (dBm)	Ant Gain (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
2133	-53.5	53	170	V	2133	-49.04	9.36	1.41	-41.09	-13	-28.09
2133	-57.37	322	187	H	2133	-52.91	9.36	1.41	-44.96	-13	-31.96
7016	-46.81	335	217	V	7016	-40.98	10.42	2.87	-33.43	-13	-20.43
7016	-50.77	26	172	H	7016	-44.94	10.42	2.87	-37.39	-13	-24.39

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Radiated Emissions						
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	☒
UXM Wireless Test Set	E7515A	TH54200251	07/25/2018	1 Year	07/25/2019	☒

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
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
Hong Kong 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		Radio: A1. Terminal equipment for purpose of calling Telecom: B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law
Korea CAB Accreditation		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 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 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
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 C-3421: Main Ports Conducted Interference Measurement T-1597: Telecommunication Ports Conducted Interference Measurement
Australia CAB Recognition		EMC: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, 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/ACIF S60950.1
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