

Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# **EMC TEST REPORT**

Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

Supersedes: None

Applicant Name:	Trek Bicycle Corporation		
Product Description:	Bicycle Electronics System (Smart Kit 3.0)		
Model:		Bcycle	
Test Standard:		FCC 15 Subpart B (Class B) ICES 003 Issue 6:2017	
Test Method:		ANSI C63.4: 2014	
Date of Test:		11/15/2017	
Report Issue Date:	12/21/2017		
Test Result:	□ Fail ☑ ons: □		
Anish Kom	8	Crarg Chou	
Full Name: Anish Kumar		Full Name: Gary Chou	
Title: EMC Test Engineer		Title: Engineering Reviewer	

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Test result presented in this test report is applicable to the tested sample only.

#### **ISSUED BY:**

SIEMIC Laboratories 775 Montague Expressway, Milpitas, CA 95035 USA





Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# **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	ISED, 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 conformity assessment

Country/Region	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



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

#### **Table of Contents**

1.	R	Report revision history	4
2.	Ε	xecutive summary	4
3.	С	Customer information	4
4.	T	est site information	4
5.	M	Modification	4
6.	T	est software version	4
7.	Ε	UT Information	5
	7.1.	EUT Description	5
	7.2.	EUT Test modes / Configuration description	6
	7.3.	EUT Photos   External	7
	7.4.	EUT Photos -Internal	8
	7.5.	EUT Photos   Test setup	9
8.	S	Supporting equipment / Software / Cabling information	10
	8.1.	Support equipment	10
	8.2.		
	8.3.	Test software description	10
	8.4.	System setup block diagram	11
9.	T	est summary	12
10	•	Measurement uncertainty	12
11		Frequency Range of Radiated Measurements	13
12		Guideline for interference allowed	14
	12.1	. Conducted emissions	14
13		Annex A   Test instruments and method	21
14		Annex B   SIEMIC Accreditation	22



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# 1. Report revision history

Report No.	Version	Description	Issue Date
EMC_ SL17032201-SEV-019_FCC_IC	Original	N/A	12/21/2017

# 2. Executive summary

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

Company: Trek Bicycle Corporation

Product: Bicycle Electronics System (Smart Kit 3.0)

Model: Bcycle

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:	Trek Bicycle Corporation
Applicant Address:	801 W Madison st, Waterloo, WI-53594
Manufacturer Name:	Plexus
Manufacturer Address:	2444 Schultz Drive, Neenah, WI-54956

# 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

#### 5. Modification

Index	Item	Description	Note
1.	N/A	N/A	-

# 6. Test software version

Test Item	Vendor	Software	Version
Radiated Emission	EMISoft	EMISoft Vasona	V6.013
Conducted Emission	EMISoft	EMISoft Vasona	V5.095



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# 7. EUT Information

# 7.1. EUT Description

Product Description:	Bicycle Electronics System (Smart Kit 3.0)
Model No.:	BCycle
Trade Name:	BCycle
Serial No.:	TOOFN
Input Power:	12 Vdc
Date of EUT received:	11/15/2017
Equipment Class:	Class B
Product Hardware version	10
Product Software version	1.30.0
Highest frequency generated or used in the device or on which the device operates or tunes:	2480 MHz
Port/Connectors:	N/A
Remark:	N/A



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# 7.2. EUT Test modes / Configuration description

### 7.2.1.EUT Test modes: Pre-test mode

Pre-scan Test Mode	Notes
Mode 1	Normal Operation
Remark:	EUT was simulated the normal operation.

#### 7.2.2.EUT Test modes: Final test mode

Final Test Mode	Notes
Mode 1	Normal Operation
Remark:	EUT was simulated the normal operation.



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# 7.3. EUT Photos | External





Top View



**Bottom View** 



Front Side



Rear Side



Left Side Right Side



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

### 7.4. EUT Photos -Internal



Constitution of the second of

PCB View with Cover



Cover off PCB View



Battery Top View

Battery Side View

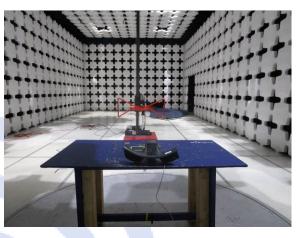


Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

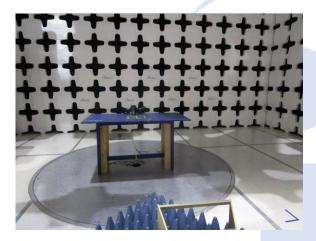
# 7.5. EUT Photos | Test setup



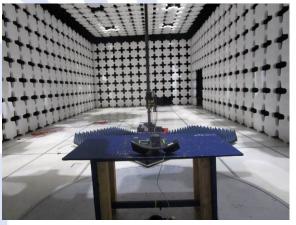
Radiated Emissions 30-1000MHz - Front View



Radiated Emissions 30-1000MHz- Rear View



Radiated Emissions 1-13GHz - Front View



Radiated Emissions 1-13GHz - Rear View



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# 8. Supporting equipment / Software / Cabling information

# 8.1. Support equipment

Item	Support Equipment Description	Model	Serial Number	Manufacturer	Notes
N/A	N/A	N/A	N/A	N/A	N/A

### 8.2. I/O Ports

Item	Connection S	tart	Connection Stop Length / shielding Info			Note	
	From	I/O Port		I/O Port	Length (m)	Shielding	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

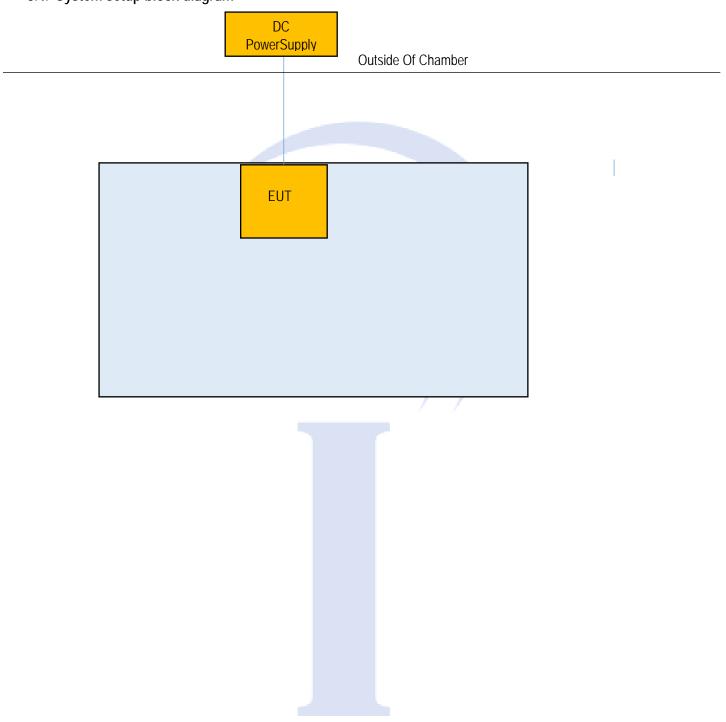
# 8.3. Test software description

Test Item	Software	Description
-	//	-



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# 8.4. System setup block diagram





Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# 9. Test summary

	Emissions				
Test Item	Test Standard	Test Method / Procedure	Pass / Fail		
AC Conducted Emissions	FCC 15 Subpart B (Class B)	ANSI C63.4:2014	Pass Fail		
No conducted Emissions	ICES 003 Issue 6:2017	711131 303.4.2014	X N/A		
Radiated Spurious Emissions Below 1GHz	FCC 15 Subpart B (Class B) ICES 003 Issue 6:2017	ANSI C63.4:2014	X Pass Fail N/A		
Radiated Spurious Emissions  Above 1GHz	FCC 15 Subpart B (Class B)  ICES 003 Issue 6:2017  ANSI C63.4:201		X Pass Fail N/A		
Remark	Remark EUT is dc product so AC conducted emissions dose not applicable.				

# 10. 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
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	>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)	+4.3dB/- 4.1dB



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# 11. Frequency Range of Radiated Measurements

#### For unintentional radiators:

- (1) Except as otherwise indicated in paragraphs (b)(2) or (b)(3) of this section, for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:
- (2) A unintentional radiator, excluding a digital device, in which the highest frequency generated in the device, the highest frequency used in

highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705-108	1000.
108-500	2000.
500-1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz,
	whichever is lower.

the device and the highest frequency on which the device operates or tunes are less than 30 MHz and which, in accordance with §15.109, is required to comply with standards on the level of radiated emissions within the frequency range 9 kHz to 30 MHz, such as a CB receiver or a device designed to conduct its radio frequency emissions via connecting wires or cables, e.g., a carrier current system not intended to radiate, shall be investigated from the lowest radio frequency generated or used in the device, without going below 9 kHz (25 MHz for CB receivers), up to the frequency shown in the following table. If the unintentional radiator contains a digital device, the upper frequency to be investigated shall be that shown in the table below or in the table in paragraph (b)(1) of this section, as based on both the highest frequency generated and the highest frequency used in the digital device, whichever range is higher.

Highest frequency generated or used in the device or or tunes (MHz)	n which the device operates o	Upper frequency of measurement range (MHz)
Below 1.705		30
1.705-10		400
10-30		500

(3) Except for a CB receiver, a receiver employing super heterodyne techniques shall be investigated from 30 MHz up to at least the second harmonic of the highest local oscillator frequency generated in the device. If such receiver is controlled by a digital device, the frequency range shall be investigated up to the higher of the second harmonic of the highest local oscillator frequency generated in the device or the upper frequency of the measurement range specified for the digital device in paragraph (b)(1) of this section.

#### Example:

If the EUT has a transceiver operating or tunes at 2.4GHz, then both the Receiver, and the Transmitter needs to be tested separately to the Fifth Harmonic (e.g. Upper Frequency range would be 12GHz). A Transceiver consists of both a transmitter and a receiver, the receiver portion of which is always subject to the part 15 Subpart B Unintentional Radiator rules.



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# 12. Guideline for interference allowed

### 12.1. Conducted emissions

Spec	Item	Requirement				Applicable		
8 15 100	a)	(AC) power line, the radio frequency or frequencies within (a), as measured using a 50 µH.	e, for equipment that is designed to ency voltage that is conducted bac the band 150 kHz to 30 MHz shall /50 ohms line impedance stabilizat for Conducted Emissions at the	k onto the AC pow not exceed the lim tion network (LISN	ver line on any nits set in § 15.107			
§ 15.109 ICES-003 Issue		Section	Frequency ranges	Limit (	(dBuV)	NO		
6:2017		Class B devices  NOTE 1 The lower limit shall a	(MHz) $0.15 \sim 0.5$ $0.5 \sim 5$ $5 \sim 30$ Apply at the transition frequencies.	Average 56 – 46 46 50				
Test Setup		Note: 1. Support units were connected to second LISN.  2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units						
Procedure	2. Th 3. Th 4. Al 5. Th 6. A te 7. Hi 8. Th ba Q. 9. Al	2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes  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.  The power supply for the EUT was fed through a 501/501H EUT LISN, connected to filtered mains.  The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.  All other supporting equipment was powered separately from another main supply.  The EUT was switched on and allowed to warm up to its normal operating condition.  A scan was made on the Neutral/Phase line (for AC mains) or Earth line over the required frequency range using an EMI test receiver.  High peaks, relative to the limit line, were then selected.  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						



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

Description of the Conducted Emission Program	This EMC Measurement software, EMI Soft Vasona 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 MHz
Remark	N/A

Test Data: Yes X N/A

Test Plot: Yes X N/A



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# Radiated Spurious Emissions Below 1GHz (Class B)

## Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.109 ICES-003 Issue 6:2017	a)	Except for Class A digital device, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:    Frequency range (MHz)   Field Strength (uV/m)	Yes
Test Setup		Semi Anechoic Chamber  Radio Absorbing Material  3m / 10m  Antenna  Antenna  Spectrum Analyzer	
Procedure	X 0 2. The 3. The em follo a. b. c.		n of the neight in the
Description of the Radiated Emissions Program	measu system a pre-s antenn scan; t hold sv After th all spe	MC Measurement software, EMI Soft Vasona offers a common user interface for electromagnetic interements. This software is a modern and powerful tool for controlling and monitoring EMI test receiver its. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this scan measurement before it proceeds with the final measurement. The pre-scan routine will run the scan heights, 2 antenna polarity, and 360 degrees table rotation. For example, the program was set to run 3 he program will first start from a meter antenna height and divide the 30 MHz to 1 GHz into 10 separate payeeps. Each parts of maximum hold sweep, the program will collect the data from 0 degree to 360 degree the program complete the 1m scan, the antenna continues to rise to 2m and continue the scan. The step cified antenna height and polarity. This program will perform the Quasi Peak measurement after the sign and pre-scan routine. The final measurement will be based on the pre-scan data reduction result.	s and EMC test program will run on four different 0 MHz to 1 GHz arts of maximum es table rotation. will repeated for
Sample Calculation Example		MHz limit = 200 µV/m = 46.00 dBµV/m  riodic antenna factor & cable loss at 300 MHz = 18.50 dB  ading obtained directly from EMI Receiver = 40.00 dBµV/m  (Calibrated level including antenna factors & cable losses	



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

Therefore, Q-P margin = 46.00 – 40.00 = 6.00 i.e. 6 dB below limit

Test Data: X Yes (See below) N/A
Test Data: X Yes (See below) N/A

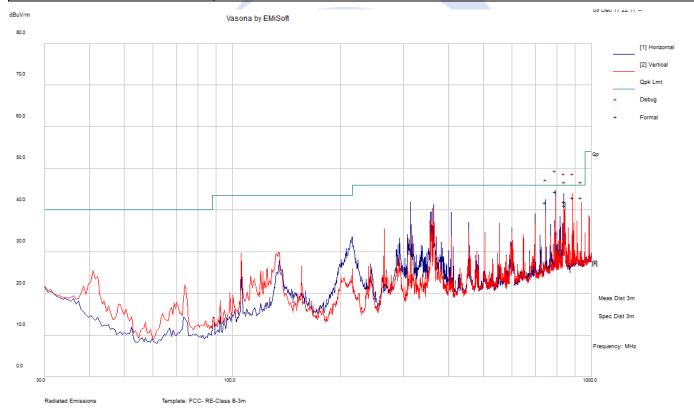




Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# Radiated Emission Test Results (Below 1GHz, Class B)

Test specification:	Radiated Emissions (Below 1GHz)				
	Temp(°C):	24.1			
Environmental Conditions:	Humidity (%):	42.1		X Pass	
	Atmospheric(mbar): 1012.7		Result:		
Input Power:	12 Vdc				
Tested by:	Anish Kuma		Fail		
Test Date:	12/09/2017				
Remarks:	Mode 1				



Filename: C:\Program Files\EMiSoft - Vasona\results\SEV-019 FCC 30M-1GHz.emi

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
793.700313	43.45	16.08	-15.04	44.49	Quasi Max	Н	100	251	46	-1.51	Pass
837.075	39.93	16.33	-14.22	42.04	Quasi Max	Н	145	213	46	-3.96	Pass
886.201563	40.48	16.58	-14.14	42.92	Quasi Max	٧	108	278	46	-3.08	Pass
744.537813	41.69	15.8	-15.66	41.83	Quasi Max	Н	104	130	46	-4.17	Pass
935.374375	39.68	16.68	-13.43	42.92	Quasi Max	٧	101	130	46	-3.08	Pass
842.843125	38.99	16.32	-14.21	41.1	Quasi Max	Н	151	242	46	-4.9	Pass



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# Radiated Spurious Emissions Above 1GHz (Class B)

## Requirement(s):

Spec	Item	Requirement Applicable							
§ 15.109	a)	a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:							
ICES-003 Issue 6:2017		Frequency range (G		ub(uv/III)		Peak limit dB(uV/m)		Yes	
			Above 1		54	74			
Test Setup		Radio Absorbing Material  Semi Anechoic Chamber  Radio Absorbing Material  3m / 10m  Antenna  Antenna  Sectrum Analyzer							
Procedure	1.0 2. Th 3. Th en fol a. b. c.	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  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:  a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.  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 emission.  A Peak and Average measurement was then made for that frequency point.							
	10	ne frequency range of the frequency and frequency are frequency fr		m 1GHz to 6	GHz (for FCC tests	s, until the 5 <sup>th</sup> harmonic fo	or operatin	g frequencies <u>&gt;</u>	
Remarks	N/A								
est Data: X	Yes (Se	e below)	N/A						

Test Data: X Yes (See below) N/A

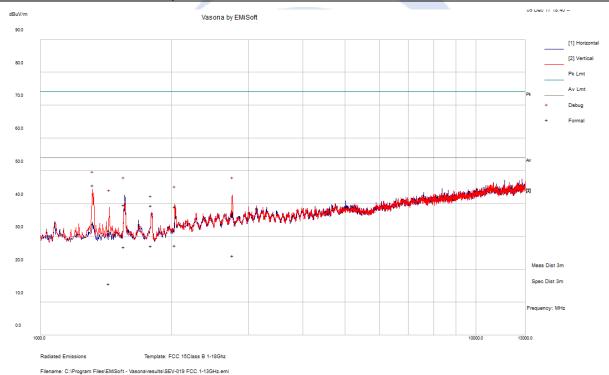
Test Data: X Yes (See below) N/A



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# Radiated Emission Test Results (Above 1GHz, Class B)

Test specification:	Radiated Emissions (Above 1GHz) – 1GHz to 13GHz					
	Temp(°C):					
Environmental Conditions:	Humidity (%):	44.8		<b>X</b> Pass		
	Atmospheric(mbar):	Result:				
Input Power:	12 Vdc					
Tested by:	Anish Kuma		Fail			
Test Date:	12/09/2017					
Remarks:	Mode 1					



Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
1319.86	66.68	2.17	-23.23	45.62	Peak Max	٧	106	149	74	-28.38	Pass
1555.036	60.13	2.4	-22.94	39.59	Peak Max	Н	160	329	74	-34.41	Pass
2758.1955	51.14	3.15	-17.32	36.98	Peak Max	Н	231	22	74	-37.02	Pass
2035.219	56.49	2.76	-20.1	39.15	Peak Max	Н	107	85	74	-34.85	Pass
1436.9935	52.93	2.28	-23.46	31.76	Peak Max	Н	181	317	74	-42.24	Pass
1795.655	59.49	2.61	-22.65	39.46	Peak Max	Н	156	310	74	-34.54	Pass
1319.86	54.77	2.17	-23.23	33.72	Average Max	٧	106	149	54	-20.28	Pass
1555.036	47.33	2.4	-22.94	26.78	Average Max	Н	160	329	54	-27.22	Pass
2758.1955	38.32	3.15	-17.32	24.16	Average Max	Н	231	22	54	-29.84	Pass
2035.219	44.69	2.76	-20.1	27.35	Average Max	Н	107	85	54	-26.65	Pass
1436.9935	36.75	2.28	-23.46	15.57	Average Max	Н	181	317	54	-38.43	Pass
1795.655	47.19	2.61	-22.65	27.15	Average Max	Н	156	310	54	-26.85	Pass



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# 13. Annex A | Test instruments and method

Instrument	Model	Model Serial #		Cal Due	In use			
Radiated Emissions								
Keysight EXA 44 GHz Spectrum Analyzer	N9010A	MY51440112	1 Year	11/16/2018	YES			
Broadband Hybrid Antenna (30MHz - 6GHz)	JB6	A031315-1	1 Year	7/31/2018	YES			
Double Ridged Waveguide Horn Antenna (1 - 18 GHz)	3115	10SL0059	1 Year	8/11/2018	YES			
RF Pre-Amplifier (9kHz - 6.5GHz)	LPA-6-30	11140711	1 Year	2/10/2018	YES			
2.4 GHz Notch Filter	BRM50702	G242	1 Year	4/14/2018	YES			
Pre-Amplifier (1 - 40GHz)	SAS-574	579	1 Year	5/4/2018	YES			
10 Meters SAC	10M	N/A	1 Year	7/6/2018	YES			
Radiated Emissions								
EMI Test Receiver (9kHz - 6GHz)	ESL6	100178	1 Year	8/17/2018	YES			
Transient Limiter (9kHz - 100MHz)	EM-7600	287	1 Year	5/26/2018	YES			
LISN (9kHz - 30MHz)	MN2050B	1018	1 Year	8/16/2018	YES			
*Note:	Equipn	nent Calibration are extended	by 3(three) mo	nths past due da	nte.			



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

# 14. Annex B | SIEMIC Accreditation

Accreditations	Document	Scope / Remark				
ISO 17025 (A2LA)	<u> </u>	Please see the documents for the detailed scope				
ISO Guide 65 (A2LA)	<u> </u>	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				
	12	Radio & Telecommunications Terminal Equipment:  EN45001 – EN ISO/IEC 17025				
EU NB		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	7	(Phase II) OFCA Foreign Certification Body for Radio and Telecom				
	7	(Phase I) Conformity Assessment Body for Radio and Telecom				
Industry Canada CAB	<u> </u>	Radio: Scope A – All Radio Standard Specification in Category I				
	7	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 EM, 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				



Report: EMC\_SL17032201-SEV-019\_FCC\_ISED

		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	7	LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition	7	CNS 13438
Japan VCCI	<b>1</b>	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  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  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