FCC TEST REPORT

For

Safe Living Technologies Inc.

Remote Cutoff Switch

Test Model No.: RCS4

Prepared for : Safe Living Technologies Inc.

: 8 Settlers Court Morriston Ontario N0B2C0 Canada Address

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

Bao'an District, Shenzhen, Guangdong, China

Tel : (+86)755-82591330 Fax : (+86)755-82591332 Web : www.LCS-cert.com

Mail : webmaster@LCS-cert.com

Date of receipt of test sample : June 17, 2016

Number of tested samples

Serial number : 16061519

Date of Test : June 17, 2016~July 05, 2016

Date of Report : July 05, 2016

FCC TEST REPORT

FCC CFR 47 PART 15C(15.231): 2015 / RSS-210 Issue 8 / RSS-Gen Issue 4

Report Reference No.: LCS1606171343E

Date of Issue: July 05, 2016

Testing Laboratory Name......: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address: 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure......: Full application of Harmonised standards

Partial application of Harmonised standards \square

Other standard testing method \Box

Applicant's Name.....: Safe Living Technologies Inc.

Address: 8 Settlers Court Morriston Ontario N0B2C0 Canada

Test Specification

Standard : FCC CFR 47 PART 15 Subpart C: 2015

RSS-210 Issue 8 / RSS-Gen Issue 4

Test Report Form No.....: LCSEMC-1.0

TRF Originator: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen LCS Compliance Testing Laboratory Ltd. is acknowledged as copyright owner and source of the material. Shenzhen LCS Compliance Testing Laboratory Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test Item Description.: Remote Cutoff Switch

Trade Mark: N/A

Test Model: RCS4

Ratings: DC 12V by battery

Result: Positive

Compiled by:

Supervised by:

Approved by:

Calvin Weng/ Administrators

Glin Lu/ Technique principal

Gavin Liang/ Manager

FCC/IC TEST REPORT

Test Report No.: LCS1606171343E

July 05, 2016

Date of issue

Test Mode..... : RCS4 EUT..... : Remote Cutoff Switch Applicant..... : Safe Living Technologies Inc. Address..... : 8 Settlers Court Morriston Ontario N0B2C0 Canada Telephone..... Fax..... : / Manufacturer..... : HANGZHOU ZHENGDIAN TECHNOLOGY CO.,LTD. Address..... : 6/F, Yuancheng Jianshe, Xingfa St., Xingqiao St., Yuhang Dist., Hangzhou, Zhejiang, China (Mainland) Telephone..... : / Fax..... : / : HANGZHOU ZHENGDIAN TECHNOLOGY CO.,LTD. Factory..... Address..... : 6/F, Yuancheng Jianshe, Xingfa St., Xingqiao St., Yuhang Dist., Hangzhou, Zhejiang, China (Mainland) : / Telephone..... Fax.....

Test Result	Positive
-------------	----------

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
00	2016-07-05	Initial Issue	Gavin Liang

TABLE OF CONTENTS

1. GENERAL INFORMATION	6
1.1. DESCRIPTION OF DEVICE (EUT)	6
1.2. Objective	6
1.3. Environmental Conditions	6
1.4. HOST SYSTEM CONFIGURATION LIST AND DETAILS	7
1.5. External I/O Port	7
1.6. DESCRIPTION OF TEST FACILITY	
1.7. STATEMENT OF THE MEASUREMENT UNCERTAINTY	7
2. TEST METHODOLOGY	8
2.1. EUT CONFIGURATION	8
2.2. EUT Exercise	8
2.3. GENERAL TEST PROCEDURES	8
2.4. Instrument Calibration	
2.5. TEST MODE	9
3. SYSTEM TEST CONFIGURATION	10
3.1. Justification	10
3.2. EUT Exercise Software	
3.3. SPECIAL ACCESSORIES	10
3.4. BLOCK DIAGRAM/SCHEMATICS	10
3.5. EQUIPMENT MODIFICATIONS	
3.6. TEST SETUP	10
4. SUMMARY OF TEST RESULTS	11
5. TEST ITEMS AND RESULTS	12
5.1. Transmission Cease Time	12
5.2. Transmitter Field Strength of Emissions	
5.3. 20DB BANDWIDTH EMISSIONS	
5.4. Duty cycle	22
5.5. Antenna Requirement	24
6. LIST OF MEASURING EQUIPMENTS	25

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Remote Cutoff Switch

Test Model : RCS4

Hardware Version : ZD200S

Software Version : V1.0

Power Supply : DC 12V by battery

Transmit Frequency : 433.92MHz

Number of Channels : 1

Modulation Type : ASK

Antenna Description : External Antenna, -3.0dBi(Max.)

1.2. Objective

The primary objective of the manufacturer is compliance with Subpart C of Part 15 of FCC Rules for the radiated and conducted emissions of intentional radiators and Industry Canada RSS-210 for Low Power, License-Exempt Radio Communication Devices. Certification of these devices is required as a prerequisite to marketing as defined in Part 2 the FCC Rules and Industry Canada Radio Standards Procedure RSP-100.

Certification is a procedure where the manufacturer or a contracted laboratory makes measurements and submits the test data and technical information to the FCC. The FCC issues a grant of equipment authorization upon successful completion of their review of the submitted documents. Once the equipment authorization has been obtained, the label indicating compliance must be attached to all identical units, which are subsequently manufactured.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product which may result in increased emissions should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing or I/O cable changes, etc.).

1.3. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35 ℃ - Humidity: 30-60 %

- Atmospheric pressure: 86-106kPa

1.4. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate

1.5. External I/O Port

I/O Port Description	Quantity	Cable

1.6. Description of Test Facility

CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1.

VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-RCS4

1.7. Statement of The Measurement Uncertainty

ISO Guide 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level and were calculated in accordance with NAMAS document NIS 81.

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	3.10dB	(1)
Dadiation Unaantainty		30MHz~200MHz	2.96dB	(1)
Radiation Uncertainty:		200MHz~1000MHz	3.10dB	(1)
		1GHz~26.5GHz	3.80dB	(1)
Conduction Uncertainty : 150kHz~30MHz		1.63dB	(1)	
Power disturbance	:	30MHz~300MHz	1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10: 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd..

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the normal operating mode. The TX frequency that was fixed which was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.231 under the FCC Rules Part 15 Subpart C and RSS-210.

2.3. General Test Procedures

2.3.1 Conducted Emissions(N/A)

According to the requirements in Section 6.2 of ANSI C63.10: 2013, AC power-line conducted emissions shall be measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table and the turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10: 2013

2.4. Instrument Calibration

All test equipment is regularly checked to ensure that performance is maintained in accordance with the manufacturer's specifications. All antennas are calibrated at regular intervals with respect to tuned half-wave dipoles. An exhibit of this report contains the list of test equipment used and calibration information.

2.5. Test Mode

The EUT has been tested under engineering mode. The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The worst case of X axis was reported.

A new battery supplied DC 12V power to the EUT for testing.

Press any one of the four buttons on the EUT can transmit 433.92MHz control signal. All four buttons were tested for the pre-test, and we found that pressed the A button was the worst case. Only recorded the worst test case in this report.

The EUT just transmits signal one time when you press the button, whether you release at once or not. If you want to transmit again, you must release the button and press the button again.

***Note: Using a temporary antenna connector for the EUT when conducted measurements are performed.

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmit condition.

3.2. EUT Exercise Software

N/A

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

A	Applied Standard: FCC Part 15 Subpart C & RSS-210			
FCC Rules	IC Rules	Description of Test	Result	
§15.203	RSS-Gen	Antenna Requirement	Compliant	
§15.205	RSS-Gen	Restricted Bands Of Operation	Compliant	
§15.209	RSS-Gen	Radiated Emission Limits, General Requirements.	Compliant	
§15.231 (b)	A1.1	Field Strength Of Fundamental And Harmonics	Compliant	
§15.231 (c)	A1.1	20dB Bandwidth	Compliant	
§15.231 (a)(1)	A1.1	Transmission Cease Time	Compliant	
§15.207	RSS-Gen	Conducted Emissions	N/A	

5. TEST ITEMS AND RESULTS

5.1. Transmission Cease Time

FCC 15.231 (a) & RSS-210 A1.1.1(a)

5.1.1. Limit

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

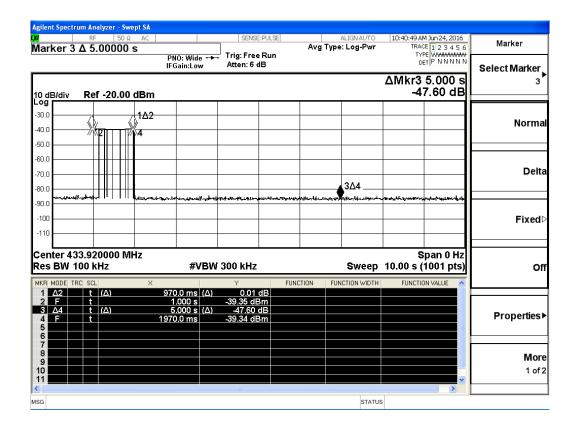
5.1.2. Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations. The antenna was all opened.

5.1.3. Test Results

Temperature	24.8°C	Humidity	57%
Test Engineer	Chaz	Test Date	June 24, 2016

Frequency (MHz)	Transmission cease Time (s)	Limit	Conclusion
433.92	0.97	not more than 5 seconds of being released(s)	PASS



5.2. Transmitter Field Strength of Emissions

5.2.1. Limit

FCC §15.231 (b) & RSS-210 A1.1.2(1)

In addition to the provisions of §15.205, the field strength of emissions from Intentional radiators operated under this section shall not exceed the following:

radiators operated ander th	diators operated under this section shan not exceed the rono wing.			
Fundamental	Field Strength of	Field Strength of spurious		
frequency	Fundamental	emissions		
(MHz)	(microvolt/meter)	(microvolt/meter)		
40.66-40.70	2,250	225		
70-130	1,250	125		
130-174	1,250 to 3,370	125 to375		
174-260	3,750	375		
260-470	3,750 to12, 500	375 to 1,250		
Above 470	12,500	1,250		

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, μ V/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, μ V/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
MHz 0.090 - 0.110 10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366	MHz 16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2 108 - 121.94 123 - 138 149.9 - 150.05 156.52475 -	MHz 399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500	GHz 4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5 10.6 - 12.7 13.25 - 13.4 14.47 - 14.5 15.35 - 16.2 17.7 - 21.4
8.37625 - 8.38675 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	156.52525 156.7 - 156.9 162.0125 - 167.17 167.72 - 173.2 240 - 285 322 - 335.4	2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400	22.01 - 23.12 23.6 - 24.0 31.2 - 31.8 36.43 - 36.5 (²)

1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

2 Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 72 MHz, 76 88 MHz, 174 216 MHz or 470 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

5.2.2. Instruments Setting

The following table is the setting of spectrum analyzer and receiver.

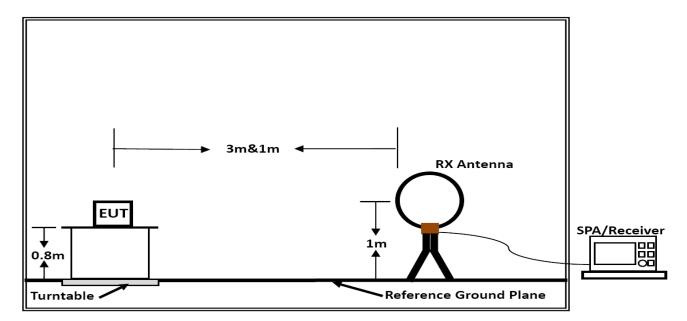
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

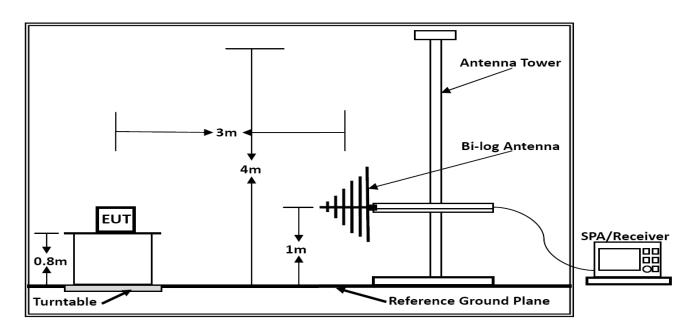
5.2.3. Test Procedures

- 1) Configure the EUT according to ANSI C63.10: 2013. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2) Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3) The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4) For each suspected emissions, the antenna tower was scan (from 1 m to 4 m) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading
- 5) Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6) For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7) When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8) If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9) For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emission sat the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. The emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10) In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

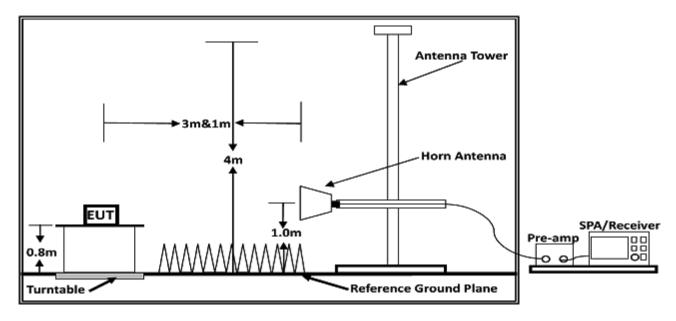
5.2.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 1GHz

5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.6. Results of Radiated Emissions (9kHz~30MHz)

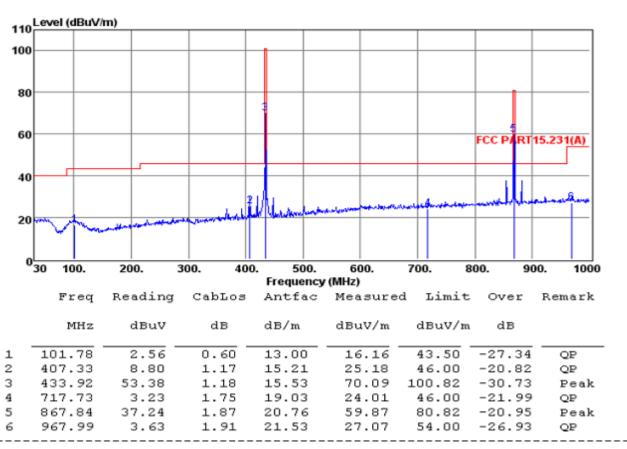
The low frequency, which started from 9KHz to 30MHz, was pre-scan and the result was 20dB lower than the limit line per 15.31(o) was not reported.

Note: Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

5.2.7. Results of Radiated Emissions (30MHz~1GHz)

Temperature 24°C		Humidity	56%	
Test Engineer Chaz		Test Date	June 27, 2016	
Test Mode Tx		Pol	Horizontal	



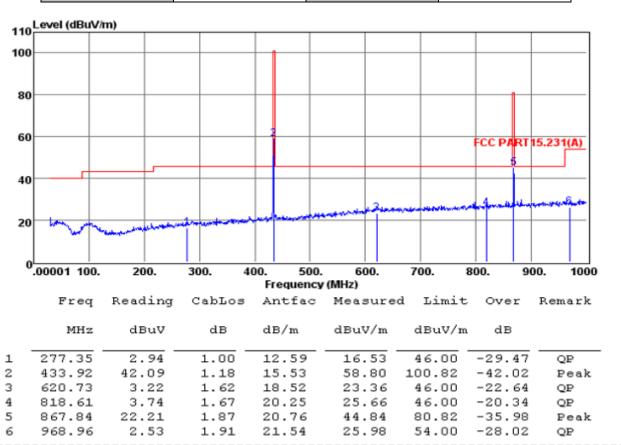
Note: 1. All readings are Quasi-peak values.

^{3.} The emission that ate 20db blow the offficial limit are not reported

		Fundamental and Harmonics Average Result					
Fraguanay	Peak	AV	Average	Limit(dBµV/	Margin(d	Conclusio	
Frequency (MHz)	Level	Factor(dBµV/m)	Level	m)	BμV/m)		
(MHZ)	$(dB\mu V/m)$	(see Section 5.4)	$(dB\mu V/m)$	(average)		n	
433.92	70.09	-10.94	59.15	80.80	-21.65	PASS	
867.84	59.87	-10.94	48.93	60.80	-11.87	PASS	

^{2.} Measured= Reading + Antenna Factor + Cable Loss

Temperature 24°C		Humidity	56%
Test Engineer	Chaz	Test Date	June 27, 2016
Test Mode Tx		Pol	Vertical



Note: 1. All readings are Quasi-peak values.

- 2. Measured= Reading + Antenna Factor + Cable Loss
- 3. The emission that ate 20db blow the offficial limit are not reported

		Fundamental and Harmonics Average Result						
Frequency (MHz)	Peak Level (dBµV/m)	AV Factor(dBμV/m) (see Section 5.4)	Average Level (dBµV/m)	Limit(dBµV/m) (average)	Margin(d BµV/m)	Conclusio n		
433.92	58.80	-10.94	47.86	80.80	-32.94	PASS		
867.84	44.84	-10.94	33.90	60.80	-26.90	PASS		

5.2.8. Results of Radiated Emissions (Above1GHz)

Temperature	24°C	Humidity	56%
Test Engineer	Chaz	Test Date	June 27, 2016
Test Mode	Tx		

Peak Value:				
Frequency	Level	Limit Line	Margin	Polarization
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Folarization
1301.76	43.16	74	-30.84	Horizontal
1735.68	38.71	74	-35.29	Horizontal
2169.60	40.65	74	-33.35	Horizontal
1301.76	40.36	74	-33.64	Vertical
1735.68	37.95	74	-36.05	Vertical
2169.60	40.04	74	-33.96	Vertical

Average Va	alue:					
Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Margin (dBuV/m)	Polarization
1301.76	43.16	-10.94	32.22	54	-21.78	Horizontal
1735.68	38.71	-10.94	27.77	54	-26.23	Horizontal
2169.60	40.65	-10.94	29.71	54	-24.29	Horizontal
1301.76	40.36	-10.94	29.42	54	-24.58	Vertical
1735.68	37.95	-10.94	27.01	54	-26.99	Vertical
2169.60	40.04	-10.94	29.10	54	-24.90	Vertical

- 1. Measuring frequencies from 9k~10th harmonic (ex. 5GHz), No emission found between lowest internal used/generated frequency to 30MHz.
- 2. Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 5GHz) were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

5.3. 20dB Bandwidth Emissions

FCC 15.231 (c) & RSS-210 A1.1.3

5.3.1. Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

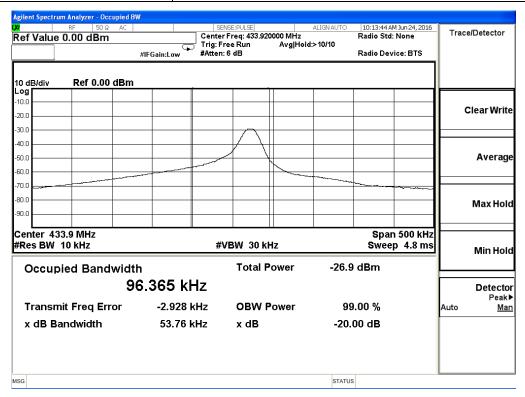
5.3.2. Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

5.3.3. Test Data

Temperature	24.3°C	Humidity	55%
Test Engineer	Chaz	Test Date	June 24, 2016
Test Mode Tx			

Transmit Frequency (MHz)	Limit (kHz)	20dB Bandwidth (kHz)	Result	
433.92	1084.8	53.76	PASS	
Maximum allowed bandwidth:	idth: \alpha 0.25\% of the centre operating frequency \alpha 0.5\% of the centre operating frequency			
RBW: VBW:				



5.4. Duty cycle

5.4.1. Limit

No dedicated limit specified in the Rules.

- 5.4.2. Test Procedure
- 5.4.2.1. Place the EUT on the table and set it in transmitting mode.
- 5.4.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 5.4.2.3. Set centre frequency of spectrum analyzer=operating frequency.
- 5.4.2.4. Set the spectrum analyzer as RBW=100kHz, VBW=100KHz, Span=0Hz, Adjust Sweep=100ms to obtain the "worst-case" pulse on time
- 5.4.2.5. Repeat above procedures until all frequency measured was complete.

5.4.3. Test Data

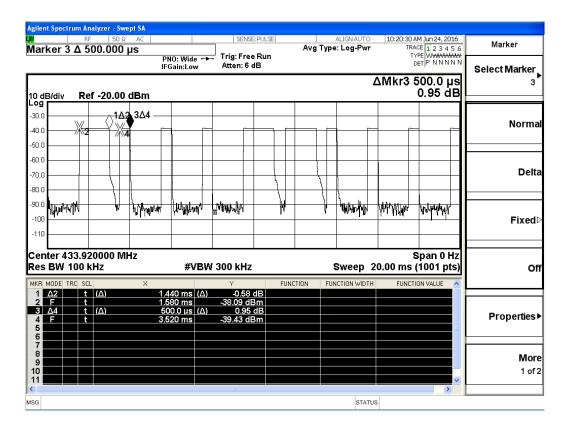
Ton = 1.44*6+0.5*19 = 18.14(ms)

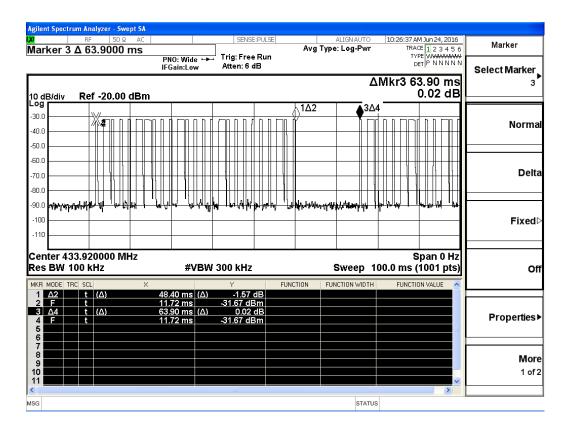
Tp = 63.90(ms)

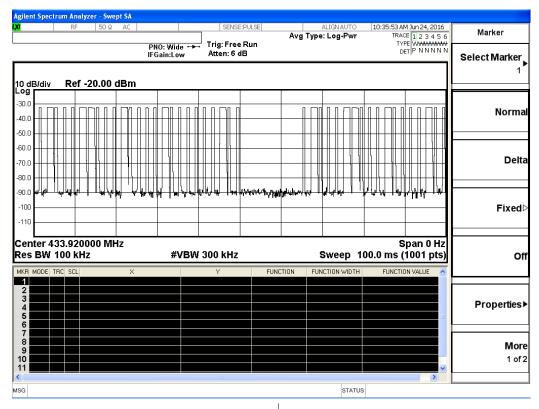
The duty cycle= 18.14/63.90 = 28.39%

Average Correction Factory = $20\log (Ton/Tp) = 20\log (18.14/63.90) = -10.94dB$

Note: The signal bandwidth was measured and less then 100kHz RBW so PDCF factor is not required to correct the fundamental signal peak result.







5.5. Antenna Requirement

FCC 15.203 & RSS-Gen

5.5.1. Standard Applicable

According to § 15.203 & RSS-Gen, 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

5.5.2. Result

Compliant.

The antenna used for transmitting is permanently attached and no consideration of replacement. Please see EUT photo for details.

6. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03СН03-НҮ	30M-1GHz 3m	June 17, 2016	June 16, 2017
Amplifier	SCHAFFNER	COA9231A	18667	9kHz-2GHzz	July 15, 2015	July 14, 2016
Amplifier	Agilent	8449B	3008A02120	1GHz-26.5GHz	July 15, 2015	July 14, 2016
Spectrum Analyzer	Agilent	E4407B	MY41440292	9k-26.5GHz	June 17, 2016	June 16, 2017
MAX Signal analyzer	Agilent	N9020A	MY50510140	20Hz-26.5GHz	October 26,2015	October 25,2016
Loop Antenna	R&S	HFH2-Z2	860004/RCS4	9k-30MHz	June 17, 2016	June 16, 2017
By-log Antenna	SCHAFFNER	CBL 6112D	22237	30MHz-1GHz	June 17, 2016	June 16, 2017
Horn Antenna	EMCO	3115	6741	1GHz-18GHz	June 17, 2016	June 16, 2017
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz-1GHz	June 17, 2016	June 16, 2017
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz-40GHz	June 17, 2016	June 16, 2017
RF CABLE-1m	JYE Bao	RG142	CB034-1m	20MHz-7GHz	June 17, 2016	June 16, 2017
RF CABLE-2m	JYE Bao	RG142	CB)35-2m	20MHz-1GHz	June 17, 2016	June 16, 2017
temporary antenna connector	LCS	LCS-RF-201504 13	N/A	9KHz~40GHz Impedance: 50Ω Cable Loss: 0.5dB	N/A	N/A

-----THE END OF REPORT-----