



TEST REPORT

Applicant: Carewell Electric Technology (Zhongshan) Co., Ltd.

Address: Torch Development Zone, No.2, Ouya Road, Zhongshan City, Guangdong

Province, China

FCC ID: 2AAZP71T-6S

IC: 11037A-71T6S

Product Name: REMOTE CONTROLLER

Model Number: 71T-6S

Standard(s): 47 CFR Part 15, Subpart C(15.231)

RSS-210 Issue 10, December 2019,

Amendment (April 2020)

RSS-Gen, Issue 5, February 2021 Amendment 2

ANSI C63.10-2013

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR21100026-00

Date Of Issue: 2021-12-20

Reviewed By: Sun Zhong

Sun 2hong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

No. 113, Pingkang Road, Dalang Town, Dongguan,

Guangdong, China Tel: +86-769-82016888

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

Report No.: CR21100026-00

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "\(^{\dagger}\)". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

This report cannot be reproduced except in full, without prior written approval of the Company.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk "★".

CONTENTS

TEST FACILITY	2
DECLARATIONS	2
1. GENERAL INFORMATION	5
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
1.2 DESCRIPTION OF TEST CONFIGURATION	6
1.2.2 Support Equipment List and Details	6
1.2.3 Support Cable List and Details	6
1.2.4 Block Diagram of Test Setup	
2. SUMMARY OF TEST RESULTS	
3. REQUIREMENTS AND TEST PROCEDURES	
3.1 AC LINE CONDUCTED EMISSIONS	9
3.1.1 Applicable Standard	
3.1.2 EUT Setup	
3.1.4 Test Procedure	
3.1.5 Corrected Amplitude & Margin Calculation	12
3.2 RADIATION SPURIOUS EMISSIONS	13
3.2.1 Applicable Standard	
3.2.2 EUT Setup	
3.2.3 EMI Test Receiver & Spectrum Analyzer Setup	
3.2.5 Corrected Amplitude & Margin Calculation	
3.3 20 DB EMISSION BANDWIDTH:	17
3.3.1 Applicable Standard	17
3.3.2 EUT Setup	
3.3.3Test Procedure	
3.3.1 Applicable Standard	
3.3.3Test Procedure	
3.4 DEACTIVATION TESTING	
3.4.1 Applicable Standard	19
3.4.2 EUT Setup	19
3.4.3Test Procedure	
3.5 ANTENNA REQUIREMENT	
3.5.1 Applicable Standard	
4. Test DATA AND RESULTS	
4.1 AC LINE CONDUCTED EMISSIONS	
4.2 RADIATION SPURIOUS EMISSIONS	
7.4 IVADIA I IUN OLUKIUUO EMISSIUNO	

China Certification ICT Co., Ltd (Dongguan)

4.3 20 DB EMISSION BANDWIDTH:	26
4.4 99% OCCUPIED BANDWIDTH:	28
4.5 DEACTIVATION TESTING:	30
5. RF EXPOSURE EVALUATION	32
5.1 APPLICABLE STANDARD	32
5.2 EVALUATION RESULT:	32

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	REMOTE CONTROLLER
EUT Model:	71T-6S
Operation Frequency:	315 MHz
Modulation Type:	ASK
Rated Input Voltage:	DC 3.0V from battery
Serial Number:	CR21100026-RF
EUT Received Date:	2021.10.16
EUT Received Status:	Good

Report No.: CR21100026-00

Operation Frequency Detail:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	315	/	/
Per section 15.31(m), the frequency in bold was performed the test.			

Antenna Information Detail ▲:

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range	§15.203 RSS-Gen Requirement
Carewell Electric Technology (Zhongshan) Co., Ltd.	PCB	50	Unknown	Compliance
The Method of §15.203 Compliance: Antenna must be permanently attached to the unit.				
Antenna must use a unique type of connector to attach to the EUT.				
Unit must be professionally installed, and installer shall be responsible for verifying that the				
correct antenna is employed with the unit.				

Accessory Information:

No Accessory.

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
Equipment Modifications:	No
EUT Exercise Software:	No
Engineering Mode was provided by manufacturer The maximum power was configured default	

Report No.: CR21100026-00

Engineering Mode was provided by manufacturer **A**. The maximum power was configured default setting.

Per pretest all keys, the worst duty cycle is the key: '3H', all data recorded in the report is for this key represent this product.

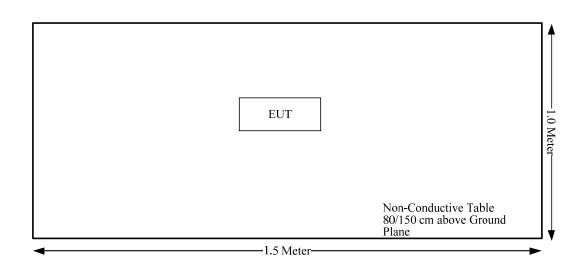
1.2.2 Support Equipment List and Details

Manufacture	er Description	Model	Serial Number
/	/	/	/

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
/	/	/	/	/	/

1.2.4 Block Diagram of Test Setup



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	$\pm 0.61 dB$
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1 °C
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207 (a) RSS-Gen Clause 8.8	Conducted Emissions	Not applicable
§15.205, §15.209, §15.231 (b) RSS-Gen Clause 8.10 RSS-210 Annex A A.1.2	Radiated Emissions	Compliant
§15.231 (c)	20dB Bandwidth	Compliant
RSS-Gen Clause 6.7 RSS-210 Annex A A.1.3	99% Occupied Bandwidth	Compliant
§15.231 (a) RSS-210 Annex A A.1.1	Deactivation Testing	Compliant
§15.203 RSS-GEN Clause 6.8	Antenna Requirement	Compliant
RSS-102 Clause 2.5.1	Exemption Limits For Routine Evaluation-SAR Evaluation	Compliant

Report No.: CR21100026-00

Not Applicable: the device was powered by battery.

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a $50 \,\mu\text{H}/50$ ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

	Conducted limit (dBµV)	
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

- (b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:
- (1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 $\mu H/50$ ohms LISN.
- (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.
- (c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

RSS-Gen Clause 8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μH / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

Report No.: CR21100026-00

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Frequency	Conducted limit (dBµV)	
(MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹
0.5 – 5	56	46
5 – 30	60	50

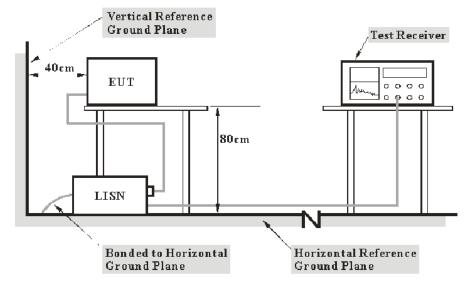
Table 4 – AC power-line conducted emissions limits

Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

- (a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.
- (b) Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

3.1.2 EUT Setup



Report No.: CR21100026-00

Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207,RSS-Gen limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W	
150 kHz – 30 MHz	9 kHz	

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

Report No.: CR21100026-00

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.2 Radiation Spurious Emissions

3.2.1 Applicable Standard

FCC §15.231 (b);

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:

Report No.: CR21100026-00

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	¹ 1,250 to 3,750	¹ 125 to 375
174-260	3,750	375
260-470	¹ 3,750 to 12,500	¹ 375 to 1,250
Above 470	12,500	1,250

1Linear interpolations.

- (1) The above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.
- (2) Intentional radiators operating under the provisions of this section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions. As an alternative, compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector. The specific method of measurement employed shall be specified in the application for equipment authorization. If average emission measurements are employed, the provisions in §15.35 for averaging pulsed emissions and for limiting peak emissions apply. Further, compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.
- (3) The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

RSS-210, Annex A, A.1.2

Following are the requirements for field strength of emissions:

- (a) The field strength of emissions from momentarily operated intentional radiators shall not exceed the limits in table A1, based on the average value of the measured emissions. The requirements of the "Pulsed operation" section of RSS-Gen apply for averaging pulsed emissions and limiting peak emissions.
 - Alternatively, compliance with the limits in table A1 may be demonstrated using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.
- (b) Unwanted emissions shall be 10 times below the fundamental emissions field strength limits in table A1 or comply with the limits specified in RSS-Gen, whichever is less stringent.

Table A1 — Permissible field strength limits for momentarily operated devices

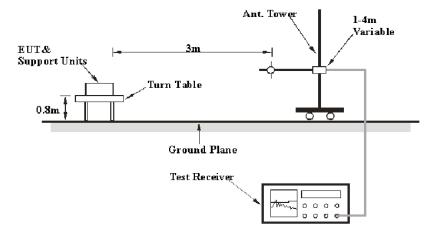
Fundamental frequency (MHz), excluding restricted frequency bands specified in RSS-Gen	Field strength of the fundamental emissions (μV/m at 3 m)
70-130	1,250
130-174	1,250 to 3,750*
174-260**	3,750
260-470**	3,750 to 12,500*
Above 470	12,500

Report No.: CR21100026-00

- For 130-174 MHz: Field Strength (μV/m) = (56.82 x f)-6136
- For 260-470 MHz: Field Strength (μV/m) = (41.67 x f)-7083

3.2.2 EUT Setup

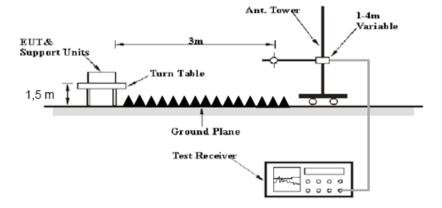
Below 1GHz:



^{*} Linear interpolation with frequency, f, in MHz:

^{**} Frequency bands 225-328.6 MHz and 335.4-399.9 MHz are designated for the exclusive use of the Government of Canada. Manufacturers should be aware of possible harmful interference and degradation of their licence-exempt radio equipment in these frequency bands.

Above 1GHz:



Report No.: CR21100026-00

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.205, 15.209, and FCC 15.231 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

For portable device, test should be performed at X.Y.Z Axis:

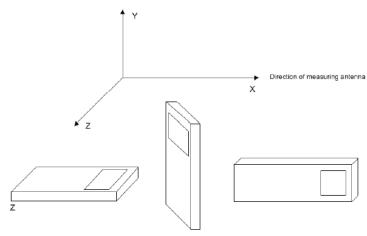


Figure 8—EUT configuration positions (see 6.3.1)

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	100 kHz	PK
Above 1 GHz	1 MHz	3 MHz	/	PK

3.2.4 Test Procedure

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

Report No.: CR21100026-00

According to §15.231, Intentional radiators operating under the provisions of this Section shall demonstrate compliance with the limits on the field strength of emissions, based on the average value of the measured emissions. As an alternative, compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor Factor = Antenna Factor + Cable Loss- Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.3 20 dB Emission Bandwidth:

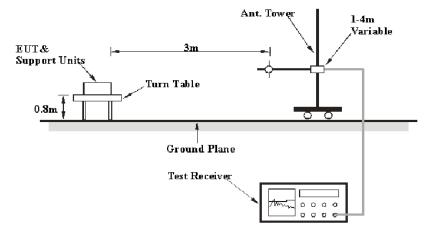
3.3.1 Applicable Standard

FCC §15.231(c)

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.

Report No.: CR21100026-00

3.3.2 EUT Setup



3.3.3Test Procedure

- a) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, unless otherwise specified by the applicable requirement.
- b) Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- c) Detector = Peak.
- d) Trace mode = \max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

3.4 99% Occupied Bandwidth:

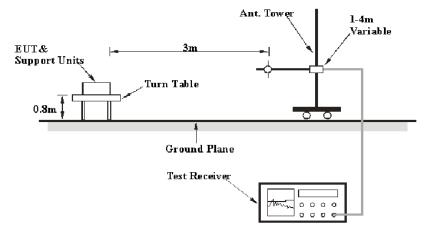
3.3.1 Applicable Standard

RSS-210, Annex A, A.1.3

The occupied bandwidth of momentarily operated devices shall be less than or equal to 0.25% of the centre frequency for devices operating between 70 MHz and 900 MHz. For devices operating above 900 MHz, the occupied bandwidth shall be less than or equal to 0.5% of the centre frequency.

Report No.: CR21100026-00

3.3.2 EUT Setup



3.3.3Test Procedure

- a) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, unless otherwise specified by the applicable requirement.
- b) Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- c) Detector = Peak.
- d) Trace mode = \max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) use the 99% Occupied bandwidth function to test the bandwidth.

3.4 DEACTIVATION TESTING

3.4.1 Applicable Standard

FCC §15.231 (a)(1)

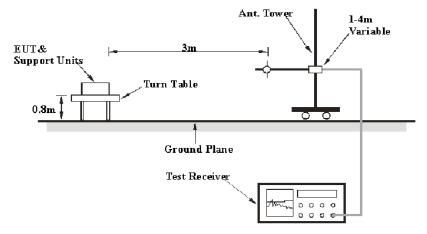
A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

Report No.: CR21100026-00

RSS-210, Annex A, A.1.1(a)

A manually operated transmitter shall be equipped with a push-to-operate switch and be under manual control at all times during transmission. When released, the transmitter shall cease transmission within no more than 5 seconds of being released.

3.4.2 EUT Setup



3.4.3Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value.
- 3) Set VBW \geq RBW. Set detector = peak or average.

3.5 Antenna Requirement

3.5.1 Applicable Standard

FCC §15.203

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Report No.: CR21100026-00

RSS-GEN Clause 6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

3.5.2 Judgment

Please refer to the Antenna Information detail in Section 1.

Report No.: CR21100026-00

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Not Applicable. The device is powered by battery.

4.2 Radiation Spurious Emissions

Serial Number:	CR21100026-RF	Test Date:	2021-12.14~2021.12.17
Test Site: RF		Test Mode:	Transmitting
Tester:	Great Qiao, Carl Liang	Test Result:	Pass

Report No.: CR21100026-00

Environmental Conditions:

Temperature: (°C)	20.1~22.5	Relative Humidity: (%)	49~51	ATM Pressure: (kPa)	101.3~101.5
-------------------	-----------	------------------------------	-------	---------------------	-------------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UFA210A-1- 1200-70U300	217423-008	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFA210A-1- 2362-300300	235780-001	2021-08-08	2022-08-07
AH	Pre-amplifier	PAM-0118P	530	2021-11-04	2022-11-03
Audix	Test Software	E3	201021 (V9)	N/A	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

1) 30-4000MHz:

Peak Strength

315 MHz

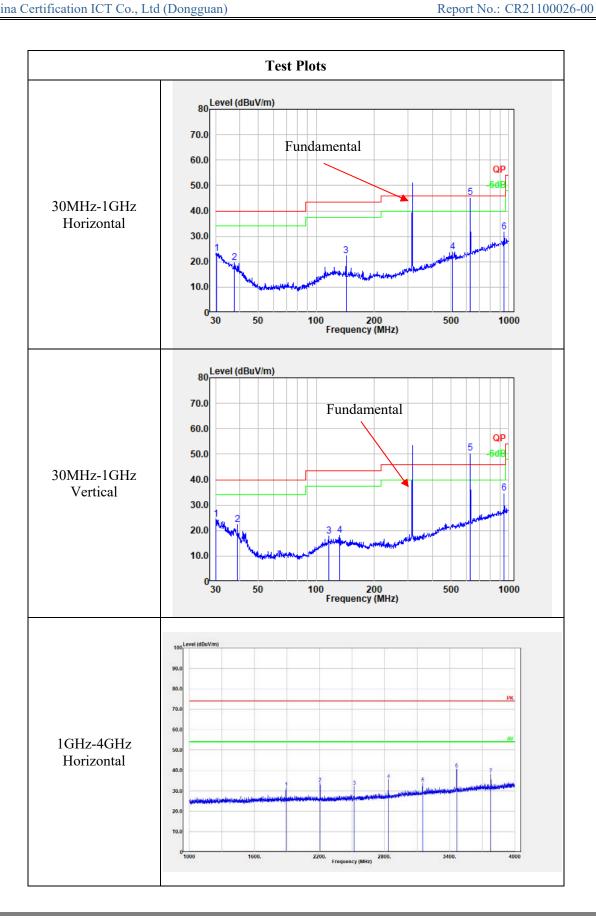
Report No.: CR21100026-00

F	Rece	eiver	D 1	Г	D 1	T: :) / ·
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
315.00	70.65	PK	Н	-16.85	53.80	95.62	41.82
315.00	71.12	PK	V	-16.85	54.27	95.62	41.35
630.00	56.77	PK	Н	-10.98	45.79	75.62	29.83
630.00	62.79	PK	V	-10.98	51.81	75.62	23.81
945.00	38.62	PK	Н	-6.53	32.09	75.62	43.53
945.00	42.25	PK	V	-6.53	35.72	75.62	39.90
1260.00	35.75	PK	Н	-1.71	34.04	75.62	41.58
1260.00	38.65	PK	V	-1.71	36.94	75.62	38.68
1575.00	35.55	PK	Н	0.04	35.59	74.00	38.41
1575.00	37.45	PK	V	0.04	37.49	74.00	36.51
1890.00	37.81	PK	Н	1.81	39.62	75.62	36.00
1890.00	43.97	PK	V	1.81	45.78	75.62	29.84
2205.00	40.06	PK	Н	2.94	43.00	74.00	31.00
2205.00	41.18	PK	V	2.94	44.12	74.00	29.88
2520.00	36.81	PK	Н	3.76	40.57	75.62	35.05
2520.00	38.17	PK	V	3.76	41.93	75.62	33.69
2835.00	40.70	PK	Н	5.28	45.98	74.00	28.02
2835.00	45.82	PK	V	5.28	51.10	74.00	22.90
3150.00	37.15	PK	Н	6.60	43.75	75.62	31.87
3150.00	41.87	PK	V	6.60	48.47	75.62	27.15

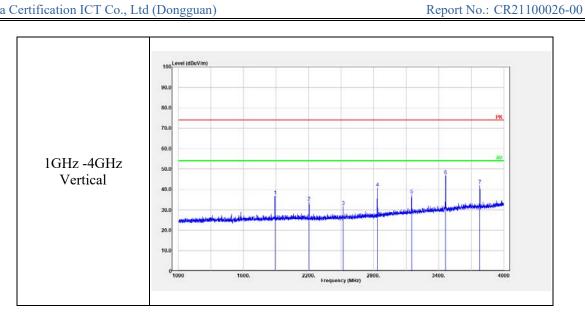
Note:

Pretest X.Y.Z Axis, the worst is Y Axis for below 1GHz and Z Axis for above 1GHz. Note: For the frequency which the peak emissions under the peak limit more than 20dB, the average

Note: For the frequency which the peak emissions under the peak limit more than 20dB, the average detector is unnecessary.



Page 24 of 32



4.3 20 dB Emission Bandwidth:

Serial Number:	CR21100026-RF	Test Date:	2021-12-14	
Test Site:	RF	Test Mode:	Transmitting	
Tester:	Carl Liang	Test Result:	Pass	

Report No.: CR21100026-00

Environmental Conditions:

Temperature: (°C) 24.1	Relative Humidity: 56 (%)	ATM Pressure: (kPa) 101.2	
------------------------	---------------------------------	---------------------------	--

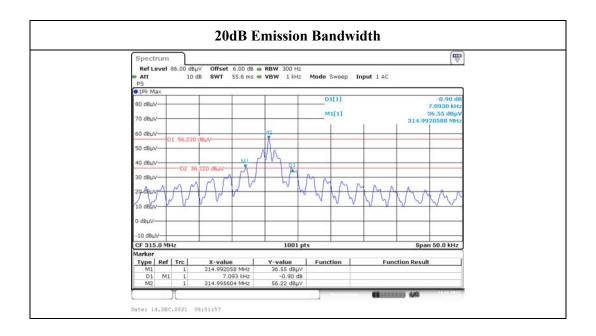
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Frequency (MHz)	20 dB Bandwidth (kHz)	Limit (kHz)
315	7.093	787.500



4.4 99% Occupied Bandwidth:

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Serial Number:	CR21100026-RF	Test Date:	2021-11-15
Test Site:	RF	Test Mode:	Transmitting
Tester:	Great Qiao	Test Result:	Pass

Report No.: CR21100026-00

Environmental Conditions:

Temperature: Relative Humidity: 52 $(^{\circ}\mathbb{C})$ 25.3 Relative $(^{\circ}\mathbb{C})$ 4TM Pressure: $(^{\circ}\mathbb{C})$ 101.5

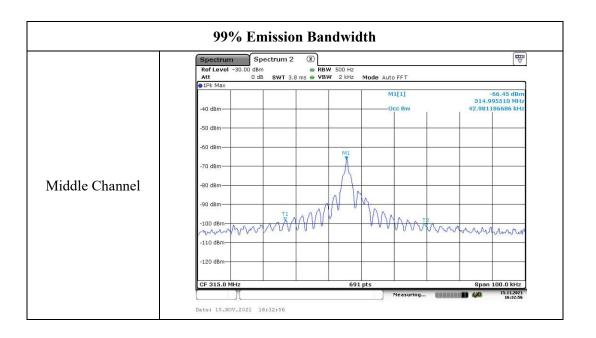
Test Equipment List and Details:

1 cot Equipment List and Details.					
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Frequency	99% Bandwidth	Limit
(MHz)	(kHz)	(kHz)
315	42.98	787.500



4.5 DEACTIVATION TESTING:

Serial Number:	CR21100026-RF	Test Date:	2021-12-15
Test Site:	RF	Test Mode:	Transmitting
Tester:	Carl Liang	Test Result:	Pass

Report No.: CR21100026-00

Environmental Conditions:

Temperature: (°C) 21.8	Relative Humidity: 60	ATM Pressure: (kPa)	101.2
------------------------	--------------------------	---------------------	-------

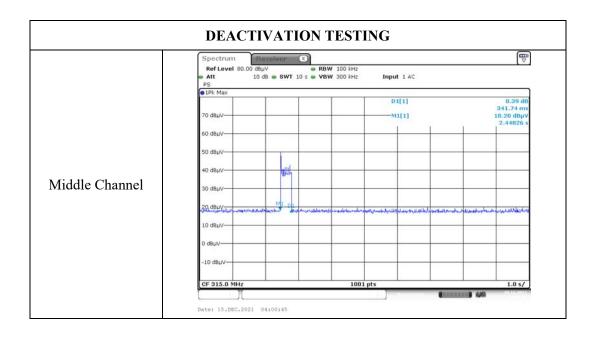
Test Equipment List and Details:

Test Equipment List and Details.					
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
Audix	Test Software	E3	201021 (V9)	N/A	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Frequency (MHz)	Maximum Deactivate Time (s)	Limit (s)
315	0.342	< 5



5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

RSS-102 § 2.5.1 EXEMPTION LIMITS FOR ROUTINE EVALUATION – SAR EVALUATION

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1. For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 2.5.

Report No.: CR21100026-00

Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance 4,5

Frequency	Exemption Limits (mW)				
(MHz)	At separation	At separation	At separation	At separation	At separation
	distance of	distance of	distance of	distance of	distance of
	≤5 mm	10 mm	15 mm	20 mm	25 mm
≤300	71 mW	101 mW	132 mW	162 mW	193 mW
450	52 m W	70 mW	88 mW	106 mW	123 mW
835	17 mW	30 mW	42 mW	55 mW	67 mW
1900	7 m W	10 mW	18 mW	34 mW	60 mW
2450	4 m W	7 mW	15 mW	30 mW	52 mW
3500	2 m W	6 mW	16 mW	32 mW	55 mW
5800	1 m W	6 mW	15 mW	27 mW	41 mW

Frequency	Exemption Limits (mW)					
(MHz)	At separation	At separation	At separation	At separation	At separation	
	distance of	distance of	distance of	distance of	distance of	
	30 mm	35 mm	40 mm	45 mm	≥50 mm	
≤300	223 mW	254 mW	284 mW	315 mW	345 mW	
450	141 mW	159 mW	177 mW	195 mW	213 mW	
835	80 mW	92 mW	105 mW	117 mW	130 mW	
1900	99 mW	153 mW	225 mW	316 mW	431 mW	
2450	83 mW	123 mW	173 mW	235 mW	309 mW	
3500	86 mW	124 mW	170 mW	225 mW	290 mW	
5800	56 mW	71 mW	85 mW	97 mW	106 mW	

5.2 Evaluation Result:

The max tune-up conducted power and ERP less than -30dBm, which was declared by manufacturer ▲.

So the stand-alone SAR evaluation can be exempted.

===== END OF REPORT =====