RF TEST REPORT



Report No.: 17020509-FCC-R1 Supersede Report No.: N/A

Applicant	chongqing lihua automatic technology Co.,Ltd.		
Product Name	remote control		
Main Model	1000i		
Serial Model	2000i, 3000i, 400	00i, 5000i, 7000i	
Test Standard	FCC Part 15.231	: 2016, ANSI C63.10: 2013	
Test Date	May 04 to June 0	01, 2017	
Issue Date	June 01, 2017		
Test Result	□ Pail		
Equipment complied	with the specific	cation 🖂	
Equipment did not comply with the specification			
Trety.	lu	Deon Dai	
Trety Lu Test Engineer		Engineer Reviewer	
This test report may be reproduced in full only			
Test resu	Test result presented in this test report is applicable to the tested sample only		

Issued by: SIEMIC (Nanjing-China) Laboratories

2-1 Longcang Ävenue Yuhua Economic and Technology Development Park, Nanjing, China Tel:+86(25)86730138 Fax:+86(25)86730127 Email: China@siemic.com.cn



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Laboratories 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

Additions for combinity Assessment		
Country/Region	Scope	
USA	EMC , RF/Wireless , Telecom	
Canada	EMC, RF/Wireless, Telecom	
Taiwan	EMC, RF, Telecom , Safety	
Hong Kong	RF/Wireless ,Telecom	
Australia	EMC, RF, Telecom , Safety	
Korea	EMI, EMS, RF , Telecom, Safety	
Japan	EMI, RF/Wireless, Telecom	
Singapore	EMC , RF , Telecom	
Europe	EMC, RF, Telecom , Safety	



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
17020509-FCC-R1	NONE	Original	June 01, 2017

2. <u>Customer information</u>

Applicant Name	chongqing lihua automatic technology Co.,Ltd.	
Applicant Add	NO.9, Yangliu North Road, Yubei District, Chongqing 401121, China	
Manufacturer Name	chongqing lihua automatic technology Co.,Ltd.	
Manufacturer Add	NO.9, Yangliu North Road, Yubei District, Chongqing 401121, China	

3. <u>Test site information</u>

Lab performing tests	SIEMIC (Nanjing-China) Laboratories	
Lab Add	2-1 Longcang Avenue Yuhua Economic and	
	Technology Development Park, Nanjing, China	
FCC Test Site No.	986914	
IC Test Site No.	4842B-1	
Test Software	EZ_EMC	



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4. Equipment Under Test (EUT) Information

Description of EUT:	remote control

Main Model: 1000i

Serial Model: 2000i, 3000i, 4000i, 5000i, 7000i

Date EUT received: May 02, 2017

Test Date(s): May 04 to June 01, 2017

Antenna Gain: 2dBi

Type of Modulation: ASK

RF Operating Frequency (ies): Tx:433.92MHz

Number of Channels: 1 CH

Port: N/A

Power: DC3V

Trade Name: N/A

FCC ID: 2AL6E-4000I



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5. Test Summary

The product was tested in accordance with the following specifications. All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207	Conducted Emissions Voltage	N/A*
§15.231(b)	Fundamental & Radiated Spurious Emission	Compliance
§15.231(c)	20dB Bandwidth	Compliance
§15.231(a)(1)	Deactivation	Compliance

Note: Preliminary radiated emission testing has been performed on X, Y, Z axis, only worst case test result is presented in this test report.

Measurement Uncertainty

Emissions			
Test Item Description Uncertainty			
Confidence level of approximately 95% (in the case distributions are normal), with a coverage factor of 2 0.5m X 0.5m X 0.5m)		3.92dB	

N/A*: EUT is Power Supply by Battery



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6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

Requirement(s): 47 CFR §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.

Antenna requirement must meet at least one of the following:

- a) Antenna must be permanently attached to the device.
- b) Antenna must use a unique type of connector to attach to the device.
- c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.

The antenna is permanently attached to the device which meets the requirement.

Result: Compliance.



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6.2 AC Conducted Emissions Voltage

Temperature	-
Relative Humidity	-
Atmospheric Pressure	-
Test date :	-
Tested By:	-

Conducted Emission Limit

Frequency ranges	L	imit (dBµV)
(MHz)	QP	Average
0.15 ~ 0.5	66 – 56	56 – 46
0.5 ~ 5	56	46
5 ~ 30	60	50

Spec	Item	Requirement	Applicable
47CFR§15.20 7, RSS210 (A8.1)	a)	For Low-power radio-frequency devices 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]H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequency ranges.	
Test Setup		Vertical Ground Reference Plane Test Receiver Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.	
Procedure	 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, as shown in Annex B. The power supply for the EUT was fed through a 50W/50mH 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 were powered separately from another main supply. 		
Remark	EUT is	Power Supply by Battery	
Result	⊠N/A	□ Fail	



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6.3 20dB Occupied Bandwidth

Temperature	25°C	
Relative Humidity	50%	
Atmospheric Pressure	1019mbar	
Test date :	June 01, 2017	
Tested By:	Trety Lu	

Requirement(s):				
Spec	Item			
§15.231(c)	a)	a) 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.		
	b)	For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.		
Test Setup		Spectrum Analyzer EUT		
Test Procedure	- - - - - N	20dB Emission bandwidth measurement procedure - Set RBW = 30 kHz. - Set the video bandwidth (VBW) ≥3*RBW. - Detector = Peak. - Trace mode = max hold. - Sweep = auto couple. - Allow the trace to stabilize. 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.		
Remark				
Result	⊠Pas	s □Fail		
Test Data ⊠Yes Test Plot ⊠Yes		□N/A □N/A		

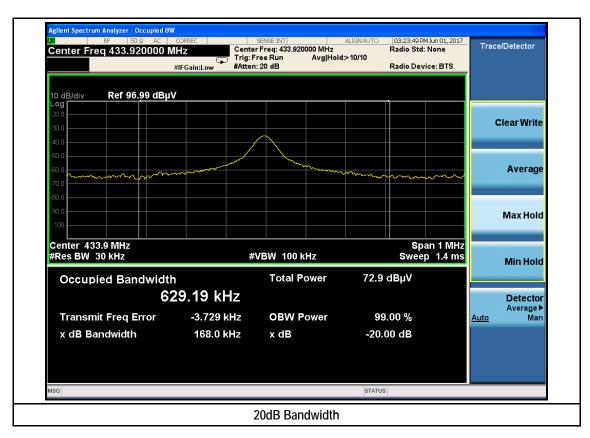


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20dB Bandwidth measurement result

Туре	Freq (MHz)	СН	Measured 20dB Bandwidth (kHz)	Limit (kHz)	Result
20dB BW	433.92	1 CH	168.0	1084.8	Pass

Test Plots 20dB Bandwidth measurement result





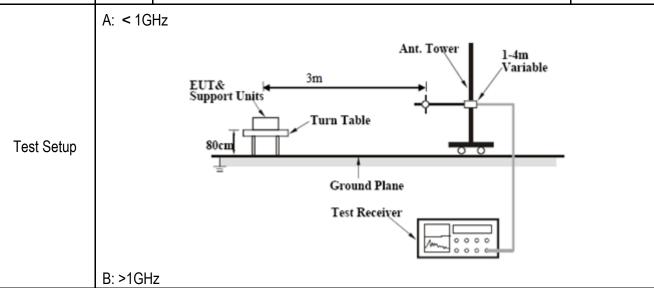
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6.4 Radiated Fundamental and Spurious Emission

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	May 04, 2017
Tested By:	Trety Lu

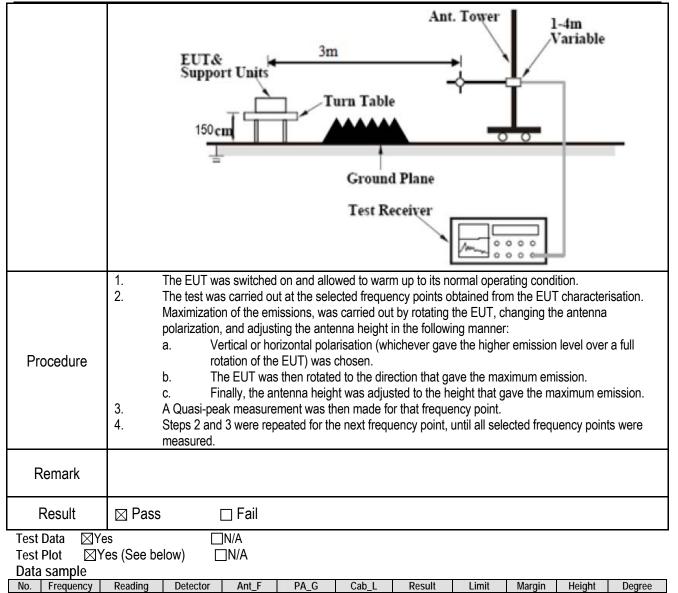
Requirement(s):

Spec	Item	Requirement	Applicable			
-1		Except higher limit as sp low-power radio-frequer specified in the following	Fundamental Field strength of Field strength of spurious emissions			
§15.231(b)	2)	40.66-40.70	(microvolts/meter) 2250	(microvolts/meter) 225		
	(a)	70-130	1250	125		
		130-174	1250 to 3750	125 to 375		
		174-260	3750	375		
		260-470	3750-12500	375 to 1250		
		Above 470	12500	1250		
		Note: All 3 axes have	been investigated. Only wo test report.	orst case is presented in the		





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(dB)

 $(dB\mu V/m)$

(dB)

(cm)

(°)

(dBµV/m)

Frequency (MHz) = Emission frequency in MHz

(dB/m)

(dB)

Reading (dBμV/m) = Receiver Reading Value

 $(dB\mu V/m)$

Detector= Peak Detector or Quasi Peak Detector

Ant_F=Antenna Factor

(MHz)

PA_G=Pre-Amplifier Gain

Cab_L=Cable Loss

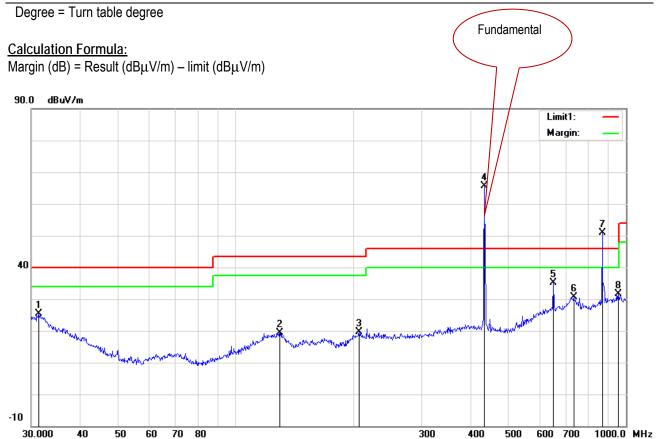
Result $(dB\mu V/m)$ = Read ing Value + Corrected Value

Limit (dB μ V/m) = Limit stated in standard

Height (cm) = Height of Receiver antenna



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Vertical Polarity Plot @3m

Field strength of fundamental Result

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
4	433.92	94.9	Pk	16.43	49.13	3.35	65.55	100.8	-35.25	100	291
4	433.92	-	Ave	-	-	-	56.58	80.8	-24.22	-	-

Field strength of spurious emissions Result

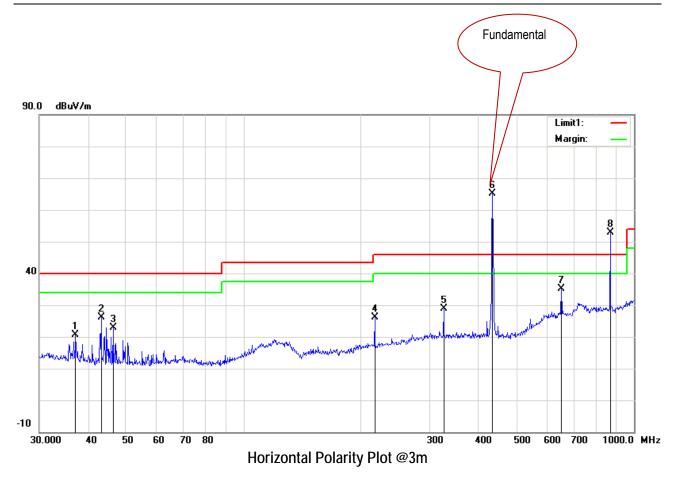
No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
7	867.84	69.19	peak	23.02	46.12	4.76	50.85	80.8	-29.95	100	48
7	867.84	-	Ave	-	-	-	41.88	60.8	-18.92	-	-

Notes: Duty cycle is 35.6%, 20log (duty cycle) = -8.97dB correction was used to determine the average level from the peak reading.

Average = peak reading + 20log (duty cycle), Final Average= peak reading-8.97dB



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Field strength of fundamental Result

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
6	433.92	94.97	Pk	16	49.13	3.35	65.19	100.8	-35.61	100	16
6	433.92	_	Ave	-	-	-	56.22	80.8	-24.58	-	-

Field strength of spurious emissions Result

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
8	867.84	71.42	peak	22.79	46.12	4.76	52.85	80.8	-27.95	100	242
8	867.84	-	Ave	-	-	-	43.88	60.8	-16.92	ı	-

Notes: Duty cycle is 35.6%, 20log (duty cycle) = -8.97dB correction was used to determine the average level from the peak reading.

Average = peak reading + 20log (duty cycle), Final Average= peak reading-8.97dB



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Spurious Emissions (<1GHz) Measurement Result

Vertical Polarity Plot @3m

	vortical i clarity i lot com										
No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
1	31.2893	49.28	peak	20.85	45.67	0.89	25.35	40.00	-14.65	100	126
2	129.9226	48.53	peak	16.37	47.29	1.86	19.47	43.50	-24.03	200	235
3	207.1226	49.97	peak	14.86	47.51	2.29	19.61	43.50	-23.89	200	168
5	651.9417	57.81	peak	21.47	48.15	4.10	35.23	46.00	-10.77	100	223
6	734.4913	49.22	peak	22.23	45.29	4.35	30.51	46.00	-15.49	100	113
8	955.4381	49.18	peak	23.64	46.16	4.97	31.63	46.00	-14.37	100	106

Horizontal Polarity Plot @3m

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
1	37.1550	53.89	peak	11.46	45.66	1.00	20.69	40.00	-19.31	100	297
2	43.2017	60.29	peak	10.61	45.90	1.11	26.11	40.00	-13.89	100	282
3	46.3402	57.66	peak	10.28	46.13	1.18	22.99	40.00	-17.01	100	192
4	216.7828	57.65	peak	13.98	47.74	2.34	26.23	46.00	-19.77	100	56
5	325.5958	58.03	peak	16.67	48.74	2.89	28.85	46.00	-17.15	100	75
7	651.9417	57.24	peak	21.85	48.15	4.10	35.04	46.00	-10.96	133	360

Notes:

- 1. Duty cycle is 35.6%, 20log (duty cycle) = -8.97dB correction was used to determine the average level from the peak reading. Average = peak reading + 20log (duty cycle), Final Average= peak reading -8.97dB
- 2. All the data measurement of peak values.
- 3. FCC Limit for Average Measurement= 41.67^* (433.92MHz)-7083.3333=10998.1131 μ V/m=80.8dB μ V/m
- 4. Average pulsed signal over one complete pulse train or 100 ms time frame if pulse train exceeds 100 ms
- 5. Maximum average in 100 ms
- 6. Calculate duty cycle for pulse train or 100 ms
- 7. Duty cycle = (t1 + t2 + t3+...tn)/T where tn = pulse width, T = pulse train length or 100 ms



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Spurious Emissions (>1GHz) Measurement Result

Frequency GHz	Reading (dBµV/m)	Direction Degree	Height Meter	Polar H/V	Ant_F (dB/M)	PA_G (dB)	Cab_L (dB)	correct (dBµV/m)	FCC 15.231 Limit (dBµV/m)	Margin	Comments
1.3	66.43	50	2	Η	24.64	51.58	2.84	42.33	74.0	-31.67	Peak
1.3	-	-	ı	Ι	ı	-	ı	33.36	54.0	-20.64	Ave
1.735	65.45	94	1	Ι	25.99	50.98	3.99	44.45	80.8	-36.35	Peak
1.735	-	-	•	Ι	1	-	1	35.48	60.8	-25.32	Ave
2.145	61.17	233	1	Н	27.74	52.36	4.14	40.69	80.8	-40.11	Peak
2.145	-	-	ı	Η			ı	31.72	60.8	-29.08	Ave
2.455	82.3	0	2	Н	29.1	52.6	4.04	62.84	80.8	-17.96	Peak
2.455	-	-	-	Н			-	53.87	60.8	-6.93	Ave
3.2	59.02	187	1	Н	30.34	52.84	4.76	41.28	80.8	-39.52	Peak
3.2	-	-	-	Н			-	32.31	60.8	-28.49	Ave
4.19	58.44	360	1	Н	32.26	52.6	6.1	44.2	74.0	-29.8	Peak
4.19	-	-	-	Н			-	35.23	54.0	-18.77	Ave
1.3	74.02	360	2	V	24.64	51.58	2.84	49.92	74.0	-24.08	Peak
1.3	-	-	-	V			-	40.95	54.0	-13.05	Ave
1.89	67.53	88	2	V	26.64	51.72	3.98	46.43	80.8	-34.37	Peak
1.89	-	-	-	V			-	37.46	60.8	-23.34	Ave
2.17	62.55	123	2	V	27.85	52.38	4.17	42.19	80.8	-38.61	Peak
2.17	-	-	-	V			-	33.22	60.8	-27.58	Ave
2.455	82.23	315	2	V	29.1	52.6	4.04	62.77	80.8	-18.03	Peak
2.455	-	-	-	V			-	53.8	60.8	-7.00	Ave
2.68	61.51	349	2	V	29.23	52.7	4.18	42.22	80.8	-38.58	Peak
2.68	-	-	-	V			-	34.69	60.8	-26.11	Ave
3.815	58.77	271	2	V	32.26	52.94	5.15	43.24	74.0	-30.76	Peak
3.815	_	-	-	V	_		-	34.27	57.0	-22.73	Ave

Note: Duty cycle is 35.6%, 20log (duty cycle) = -8.97dB correction was used to determine the average level from the peak reading. Average = peak reading + 20log (duty cycle), final Average= peak reading -8.97dB

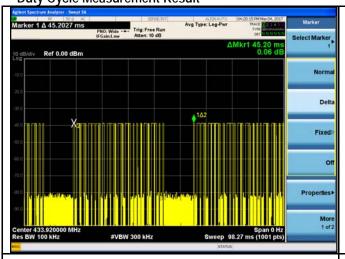
Note:

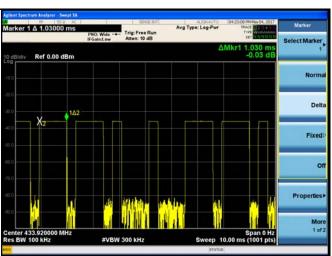
Narrow Pulse: 0.34ms 2/NP = 2/0.34ms =5.88kHz RBW > 2/NP (5.88kHz) Therefore PDCF is not needed.



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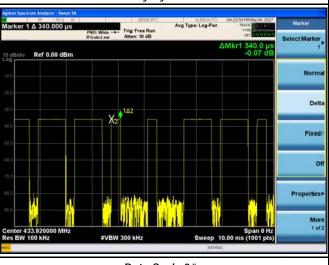
Duty Cycle Measurement Result





Duty Cycle 2#

Duty Cycle 1#



Duty Cycle 3#

Wide Pulse: 1.03ms Narrow Pulse: 0.34ms

Duty cycle= (1.03*11+0.34*14)/45.2 =35.60%

Average Duty Factor: 20*log (Duty Cycle)= -8.97dB

Pulse Duty Cycle



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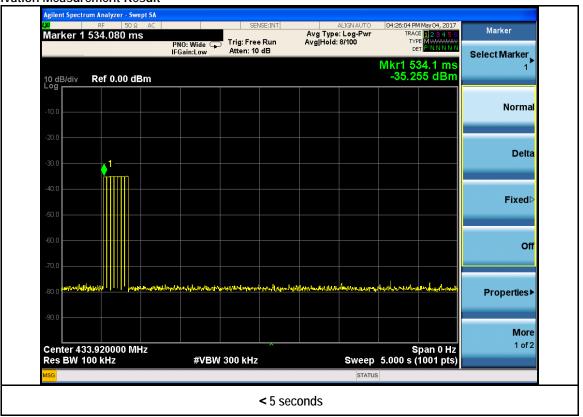
6.5 Deactivation

Temperature			25°C					
Relative Humidity			50%					
Atmospheric Pressure	9		1019mbar					
Test date :			May 04, 2017					
Tested By :			Trety Lu					
Requirement(s):								
Spec	Item	Requirement		Applicable				
§15.231 (a)(1)	a)	A manually operated transmatcally deactivate the seconds of being released.						
Test Setup	Spectrum Applyzor							
Test Procedure	measur - - - - - - -	ement procedure Set analyzer center frequency Set the span to 0Hz. Set the RBW=100KHz Set the VBW ≥ 3 ´ RBW. Detector = peak. Sweep time = auto couple. Trace mode = max hold. Allow trace to fully stabilize.	y to channel center frequency.					
Remark								
Result	⊠ Pass	S □Fail						
	es es (See be	⊠N/A elow) □N/A						



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Test Plots Deactivation Measurement Result





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Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emissions	5				
R&S EMI Test Receiver	ESPI3	101216	05/03/2017	05/02/2018	
V-LISN	ESH3-Z5	838979/005	03/31/2017	03/31/2018	
SIEMIC EZ_EMC software Conducted Emissions	Ver.ICP-03A1	N/A	N/A	N/A	
RF conducted test					
Agilent Technologies Spectrum Analyzer	N9010A	MY47191130	05/03/2017	05/02/2018	
Temperature/Humidity Chamber	1007H	N/A	01/07/2017	01/06/2018	\boxtimes
Radiated Emissions					
Agilent Technologies Spectrum Analyzer	N9010A	MY47191130	05/03/2017	05/02/2018	
R&S EMI Receiver	ESPI3	101216	05/03/2017	05/02/2018	\boxtimes
Antenna (30MHz~6GHz)	JB6	A121411	10/31/2016	10/31/2017	
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	10/09/2016	10/08/2017	\boxtimes
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/27/2016	10/26/2017	\boxtimes
Pre-Amplifier	8449B	3008A02224	10/30/2016	10/30/2017	\boxtimes
SIEMIC EZ_EMC software Radiated Emissions	Ver.ICP-03A1	N/A	N/A	N/A	\boxtimes



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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photos



Top View of EUT



Bottom View of EUT



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Front View of EUT



Rear View of EUT



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Left View of EUT



Right View of EUT



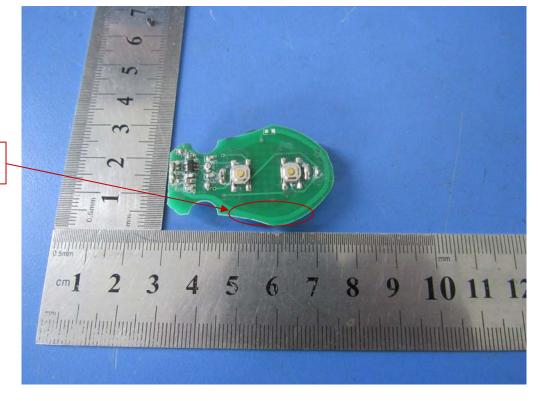
Antenna

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Annex B.ii. Photograph EUT Internal Photos



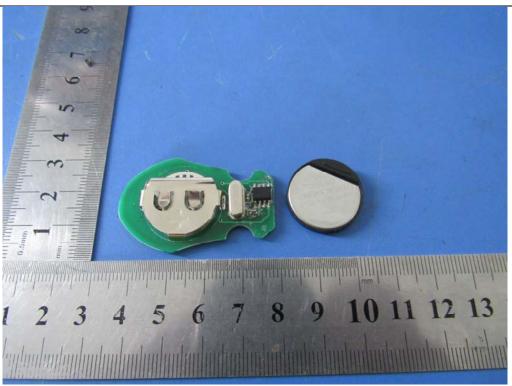
EUT Uncover- Front View



EUT PCBA - Front View



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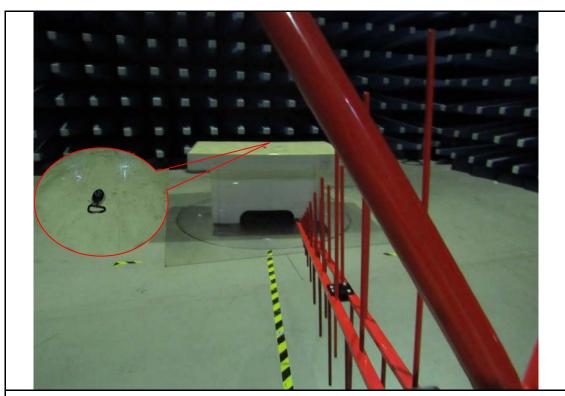


EUT PCBA 1 – Rear View



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Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

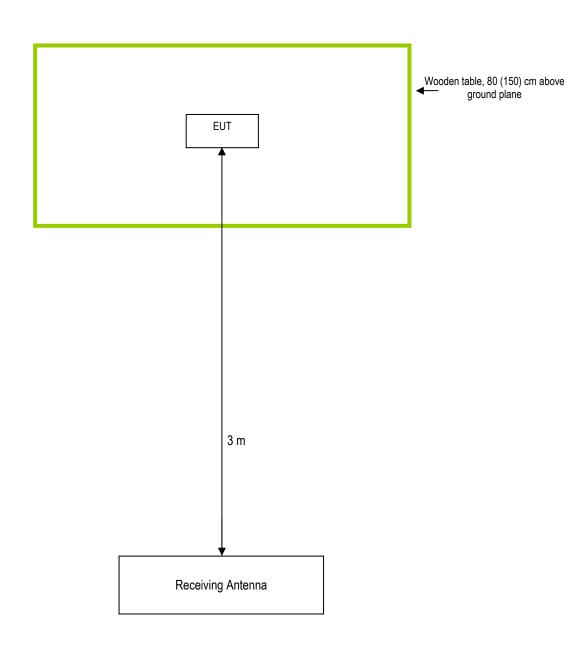


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.i. TEST SET UP BLOCK

Block Configuration Diagram for Radiated Emissions





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Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model
N/A	N/A	N/A



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Annex D. User Mar	iuai / Block Diaç	gram / Schema	atics / Partiist	
Please see attachment				



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Annex E. DECLARATION OF SIMILARITY

Chongqing Lihua Automatic Technology Co., Ltd.

To: SIEMIC INC.

Declaration letter

Dear Sir.

We hereby state that the remote controller are identical in interior PCB, This controller is mainly used in the 4000l generator, but the same applies to 1000l, 2000i, 3000i, 5000i, 7000i generator, method for controller for the same principle, control mode is the same, the difference is installed in different types of position.

FCC ID: 2AL6E-40001

Your assistance on this matter is highly appreciated.

Signature:

Printed name/title: yong dong qiu/ General manager address: No.9 Yangliu north Road, Yubei district, Chongqing