

RF TEST REPORT



Report No.: 15021324-FCC-R1

Supersede Report No.: N/A

Applicant	Dalian Seaside Door Controlling System Co., Ltd	
Product Name	wireless keyless entry	
Model No.	M12S	
Serial Model	M12S-X(X=A~Z)	
Test Standard	FCC Part 15.231a, ANSI C63.10: 2013	
Test Date	January 29, 2016	
Issue Date	February 17, 2016	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification	<input checked="" type="checkbox"/>	
Equipment did not comply with the specification	<input type="checkbox"/>	
<i>Amos Xia</i>	<i>Herve Idoko</i>	
Amos Xia Test Engineer	Herve Idoko Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

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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

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
15021324-FCC-R1	NONE	Original	February 17, 2016

2. Customer information

Applicant Name	Dalian Seaside Door Controlling System Co., Ltd
Applicant Address	NO.23-7,yaobei road,Ganjingzi District,DALIAN
Manufacturer Name	Dalian Seaside Door Controlling System Co., Ltd
Manufacturer Address	NO.23-7,yaobei road,Ganjingzi District,DALIAN

3. Test site information

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	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	Labview of SIEMIC version 1.0

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4. Equipment Under Test (EUT) Information

Description of EUT: wireless keyless entry

Main Model: M12S

Serial Model: M12S-X(X=A~Z)

Date EUT received: January 21, 2016

Test Date(s): January 29, 2016

Antenna Gain: 0 dBi

Type of Modulation: ASK

RF Operating Frequency (ies): 315MHz(TX)

Number of Channels: 1 CH

Port: N/A

Input Power: DC: 9V

Trade Name : NA

FCC ID: 2AAAL-M12S

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.

"N/A" means the EUT worked by battery.

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Radiated Spurious Emissions	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

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.

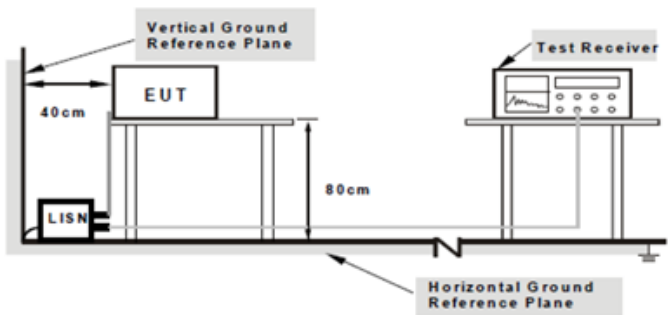
Result: Compliance.

6.2 AC Conducted Emissions Voltage

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

Conducted Emission Limit

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

Spec	Item	Requirement	Applicable
47CFR§15.207, 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 [μ]H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequency ranges.	<input checked="" type="checkbox"/>
Test Setup	 <p>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.</p>		
Procedure	<ul style="list-style-type: none"> - 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			
Result	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> N/A		

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Test Data ☐ Yes ☒ N/A

Test Plot ☐ Yes (See below) ☒ N/A

NOTE: EUT worked by battery

6.3 20dB Occupied Bandwidth

Temperature	20°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	January 29, 2016
Tested By :	Amos Xia

Requirement(s):

Spec	Item	Requirement	Applicable
§15.231(c)	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.	<input checked="" type="checkbox"/>
	b)	For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.	<input type="checkbox"/>
Test Setup	<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin: 0 10px;">Spectrum Analyzer</div> <div style="margin: 0 10px;">—</div> <div style="border: 1px solid black; padding: 5px; margin: 0 10px;">EUT</div> </div>		
Test Procedure	<p><u>20dB Emission bandwidth measurement procedure</u></p> <ul style="list-style-type: none"> - Set RBW = 100 kHz. - Set the video bandwidth (VBW) $\geq 3 \times$ RBW. - Detector = Peak. - Trace mode = max hold. - Sweep = auto couple. - Allow the trace to stabilize. <p>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.</p>		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data ☒ Yes

☐ N/A

Test Plot ☒ Yes

☐ N/A

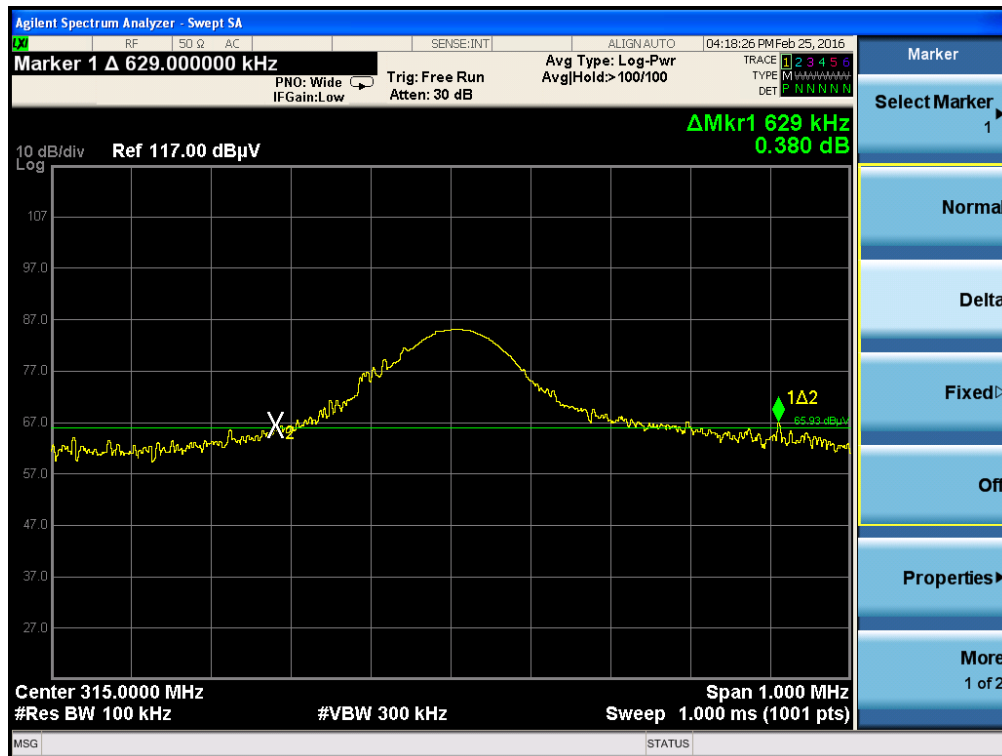
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20dB Bandwidth measurement result

Type	Freq (MHz)	CH	Measured 20dB Bandwidth (kHz)	Limit (kHz)	Result
20dB BW	315	1 CH	629	787.5	Pass

Test Plots

20dB Bandwidth measurement result

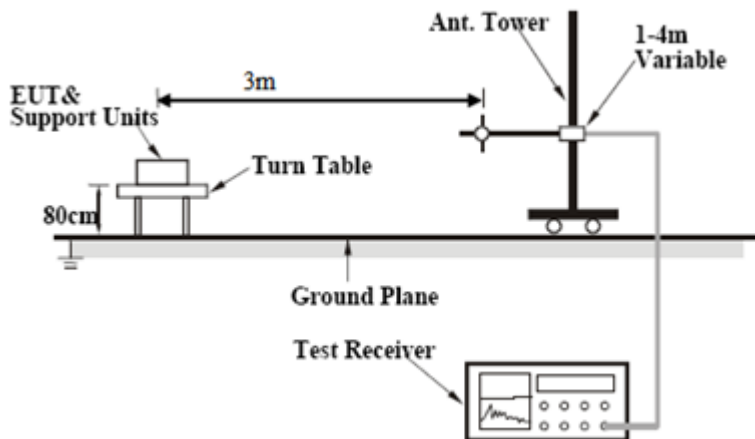


6.4 Radiated Fundamental and Spurious Emission

Temperature	20°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	January 29, 2016
Tested By :	Amos Xia

Requirement(s):

Spec	Item	Requirement	Applicable																					
§15.231(b)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges	<div><input checked="" type="checkbox"/></div>																					
		<table><tr><th>Fundamental frequency (MHz)</th><th>Field strength of fundamental (microvolts/meter)</th><th>Field strength of spurious emissions (microvolts/meter)</th></tr><tr><td>40.66-40.70</td><td>2250</td><td>225</td></tr><tr><td>70-130</td><td>1250</td><td>125</td></tr><tr><td>130-174</td><td>1250 to 3750</td><td>125 to 375</td></tr><tr><td>174-260</td><td>3750</td><td>375</td></tr><tr><td>260-470</td><td>3750-12500</td><td>375 to 1250</td></tr><tr><td>Above 470</td><td>12500</td><td>1250</td></tr></table>		Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)	40.66-40.70	2250	225	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
		Fundamental frequency (MHz)		Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)																			
		40.66-40.70		2250	225																			
		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 worst case is presented in the test report.																								

Test Setup	
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Procedure	<ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. A Quasi-peak measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
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Remark	
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Result	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
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Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Fundamental Measurement Result

Frequency (MHz)	Cord. Amp. (dBμV/m)	Azimuth	Polarity	Height(m)	Factors(dB)	FCC 15.231(a) Limit (dBμV)	Margin (dB)	Comments
315.00	66.22	207	V	1	-29.19	95.62	-29.40	Pk
315.00	63.22	-	V	-	-	75.62	-12.40	Ave
315.00	75.79	253.4	H	2	-29.48	95.62	-19.83	Pk
315.00	72.79	-	H	-	-	75.62	-2.83	Ave

Spurious Emissions (< 1GHz) Measurement Result

Frequency (MHz)	Cord. Amp. (dBμV/m)	Azimuth	Polarity	Height(m)	Factors(dB)	FCC 15.231(a) Limit (dBμV)	Margin (dB)	Comments
630.00	40.80	357	V	2	-21.83	75.62	-34.82	Pk
630.00	37.80	-	V	-	-	55.62	-17.82	Ave
630.00	48.54	267.9	H	3	-20.78	75.62	-27.08	Pk
630.00	45.54	-	H	-	-	55.62	-10.08	Ave
945.00	36.01	144.1	V	2	-18.11	75.62	-39.61	Pk
945.00	33.01	-	V	-	-	55.62	-22.61	Ave
945.00	46.88	66.7	H	3	-16.92	75.62	-28.74	Pk
945.00	43.88	-	H	-	-	55.62	-11.74	Ave

Notes:

- Duty cycle is 70.759%, $20\log(\text{duty cycle}) = -3.004\text{dB}$ correction was used to determine the average level from the peak reading.
Average = peak reading + $20\log(\text{duty cycle})$, Final Average= peak reading -3.00dB
- All the data measurement of peak values.
- FCC Limit for Average Measurement= $13125(315\text{MHz})-7083.3333=6041.67\mu\text{V/m}=75.6\text{dB}\mu\text{V/m}$
- Average pulsed signal over one complete pulse train or 100 ms time frame if pulse train exceeds 100 ms
- Maximum average in 100 ms
- Calculate duty cycle for pulse train or 100 ms
- Duty cycle = $(t_1 + t_2 + t_3 + \dots t_n)/T$ where t_n = pulse width, T = pulse train length or 100 ms

Note: Average Duty Factor: $-3.004\text{dB} \approx -3.00\text{dB}$

Spurious Emissions (> 1GHz) Measurement Result

Frequency	Direction	Height	Polar	Factors (dB)	Amplifier	Cord. Amp.	FCC 15.231	Margin	Comments
MHz	Degree	Meter	H/V	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	(dB)	(Pk/Av)
1260.23	121.3	0.88	H	-23.25	55	47.36	75.62	-28.26	Peak
1260.23	-	-	H	-	-	44.36	55.62	-11.26	Ave
1575.3	152.7	1.17	H	-20.32	55	47.32	74	-26.68	Peak
1575.3	-	-	H	-	-	44.32	54	-9.68	Ave
1890.36	83.0	0.94	H	-18.62	55	52.35	75.62	-23.27	Peak
1890.36	-	-	H	-	-	49.50	55.62	-6.12	Ave
2205.42	210.9	2.28	H	-16.42	55	41.09	74	-32.91	Peak
2205.42	-	-	H	-	-	38.09	54	-15.91	Ave
2520.48	131.7	2.42	H	-13.21	55	41.90	75.62	-33.72	Peak
2520.48	-	-	H	-	-	38.90	55.62	-16.72	Ave
2835.54	18.0	1.63	H	-10.18	55	39.17	74	-34.83	Peak
2835.54	-	-	H	-	-	36.17	54	-17.83	Ave
3150.6	90.5	2.03	H	-8.24	55	41.38	75.62	-34.24	Peak
3150.6	-	-	H	-	-	38.38	55.62	-17.24	Ave
3465.66	133.9	2.25	H	-6.73	55	41.17	75.62	-34.45	Peak
3465.66	-	-	H	-	-	38.17	55.62	-17.45	Ave
1260.23	208.5	1.52	V	-23.25	55	49.21	75.62	-26.41	Peak
1260.23	-	-	V	-	-	46.21	55.62	-9.41	Ave
1575.3	114.9	1.84	V	-20.32	55	47.49	74	-26.51	Peak
1575.3	-	-	V	-	-	44.49	54	-9.51	Ave
1890.36	144.0	0.83	V	-18.62	55	44.14	75.62	-31.48	Peak
1890.36	-	-	V	-	-	41.14	55.62	-14.48	Ave
2205.42	224.4	1.65	V	-16.42	55	42.19	74	-31.81	Peak
2205.42	-	-	V	-	-	39.19	54	-14.81	Ave
2520.48	253.3	2.16	V	-13.21	55	38.35	75.62	-37.27	Peak
2520.48	-	-	V	-	-	35.35	55.62	-20.27	Ave
2835.54	125.8	1.76	V	-10.18	55	41.80	74	-32.20	Peak
2835.54	-	-	V	-	-	38.80	54	-15.20	Ave
3150.6	46.2	1.85	V	-8.24	55	36.38	75.62	-39.24	Peak
3150.6	-	-	V	-	-	33.38	55.62	-22.24	Ave
3465.66	202.8	2.11	V	-6.73	55	34.08	75.62	-41.54	Peak
3465.66	-	-	V	-	-	31.08	55.62	-24.54	Ave

Note: 1. Duty cycle is 70.759 %, $20\log(\text{duty cycle}) = -3.004$ dB correction was used to determine the average level from the peak reading. Average = peak reading + $20\log(\text{duty cycle})$, Final Average= peak reading -3.00dB

Note:

Pulse width (PW) =0.26ms

$2/PW = 2/0.26\text{ms} = 7.69\text{kHz}$

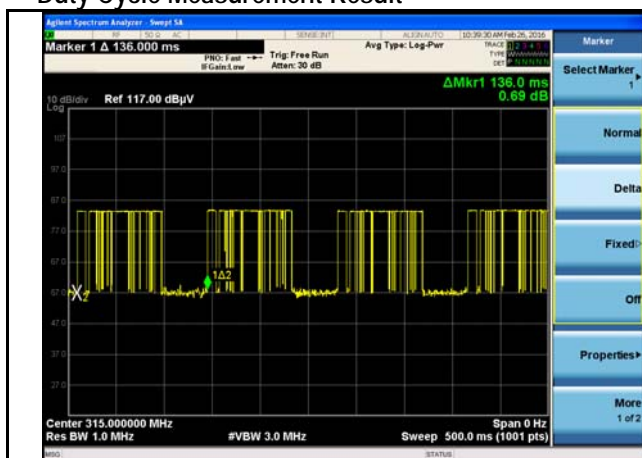
$RBW > 2/PW$ (7.69kHz)

Therefore PDCF is not needed.

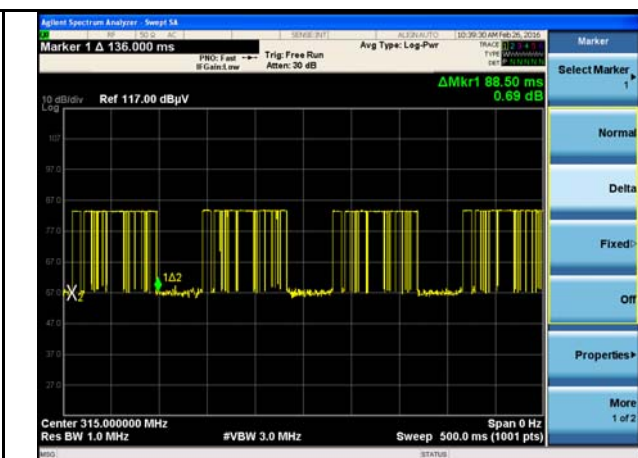
Note:Average Duty Factor:-3.004dB≈ -3.00dB

Test Plots

Duty Cycle Measurement Result



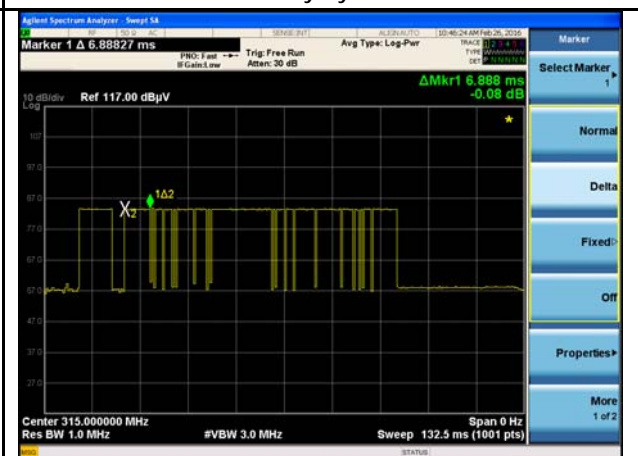
Duty Cycle 1#



Duty Cycle 2#



Duty Cycle 3#



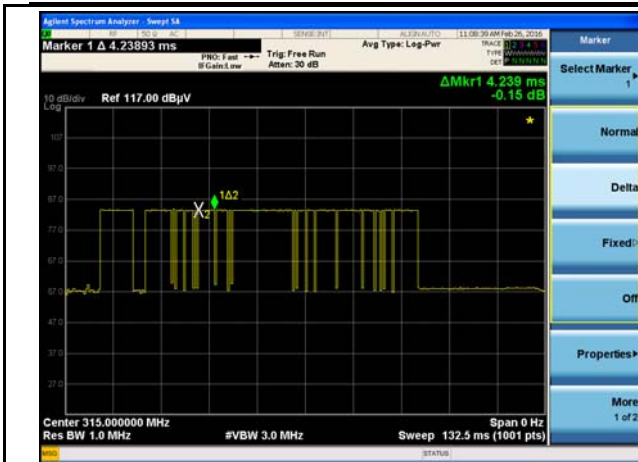
Duty Cycle 4#



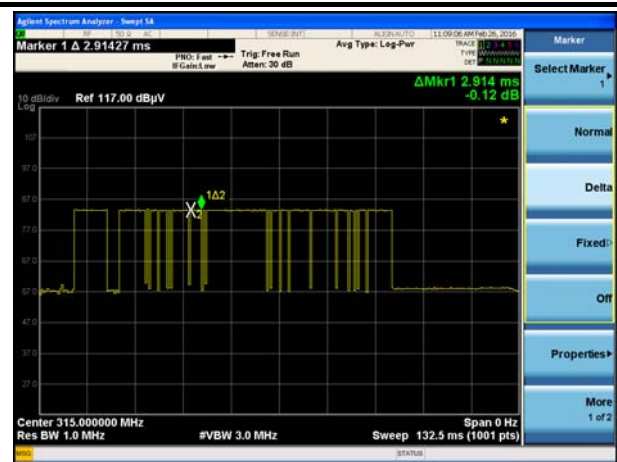
Duty Cycle 5#



Duty Cycle 6#



Duty Cycle 7#



Duty Cycle 8#



Duty Cycle 9#

$$\text{Duty cycle} = (8.895 + 6.888 \times 3 + 0.265 \times 6 + 1.855 \times 5 + 4.239 \times 2 + 2.914 \times 2 + 16.029) / 100 = 70.759\%$$

$$\text{Average Duty Factor: } 20 \times \log(\text{Duty Cycle}) = -3.004 \text{ dB}$$

Pulse Duty Cycle

Note: Average Duty Factor: $-3.004 \text{ dB} \approx -3.00 \text{ dB}$

6.5 Deactivation

Temperature	20°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	January 29, 2016
Tested By :	Amos Xia

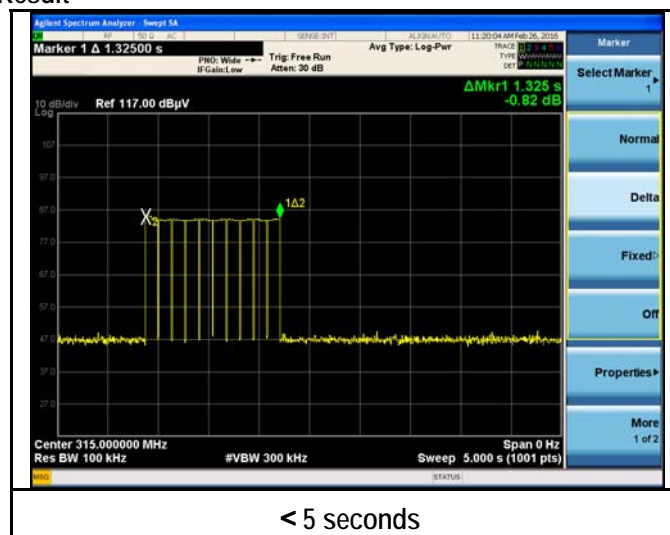
Requirement(s):

Spec	Item	Requirement	Applicable
§15.231 (a)(1)	a)	A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.	<input checked="" type="checkbox"/>
Test Setup	<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin: 0 10px;">Spectrum Analyzer</div> <div style="width: 50px; border-bottom: 1px solid black; margin: 0 10px;"></div> <div style="border: 1px solid black; padding: 5px; margin: 0 10px;">EUT</div> </div>		
Test Procedure	<u>measurement procedure</u> <ul style="list-style-type: none"> - Set analyzer center frequency to channel center frequency. - Set the span to 0Hz. - Set the RBW=100KHz - Set the VBW $\geq 3 \times$ RBW. - Detector = peak. - Sweep time = auto couple. - Trace mode = max hold. - Allow trace to fully stabilize. 		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data ☐ Yes ☒ N/A
 Test Plot ☒ Yes (See below) ☐ N/A

Test Plots

Duty Cycle Measurement Result



Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emissions					
R&S EMI Test Receiver	ESPI3	101216	09/27/2015	09/26/2016	N/A
V-LISN	ESH3-Z5	838979/005	09/27/2015	09/26/2016	N/A
Com-Power Transient Limiter	LIT-153	531021	09/27/2015	09/26/2016	N/A
INFOMW Antenna (1 ~18GHz)	JXTXLB-10180	J2031081120092	10/09/2015	10/08/2016	N/A
SIEMIC Conducted Emissions software	V1.0	N/A	N/A	N/A	N/A
RF conducted test					
R&S EMI Receiver	ESPI3	101216	09/27/2015	09/26/2016	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	02/02/2015	02/01/2016	<input checked="" type="checkbox"/>
Spectrum Analyzer	N9010A	MY47191130	09/27/2015	09/26/2016	<input checked="" type="checkbox"/>
Temperature/Humidity Chamber	1007H	N/A	01/07/2015	01/06/2016	<input checked="" type="checkbox"/>
Radiated Emissions					
Spectrum Analyzer	N9010A	MY47191130	09/27/2015	09/26/2016	<input checked="" type="checkbox"/>
R&S EMI Receiver	ESPI3	101216	09/27/2015	09/26/2016	<input checked="" type="checkbox"/>
Antenna (30MHz~6GHz)	JB6	A121411	04/15/2015	04/14/2016	<input checked="" type="checkbox"/>
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	10/09/2015	10/08/2016	<input checked="" type="checkbox"/>
INFOMW Antenna (1 ~18GHz)	JXTXLB-10180	J2031081120092	10/09/2015	10/08/2016	<input checked="" type="checkbox"/>
Horn Antenna (18~40GHz)	AH-840	101013	04/22/2015	04/22/2016	N/A
Microwave Pre-Amp (18~40GHz)	PA-840	181250	05/29/2015	05/28/2016	N/A
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/27/2015	10/26/2016	<input checked="" type="checkbox"/>
MITEQ Pre-Amplifier (0.1 ~ 18GHz)	AMF-7D- 00101800-30- 10P	1451709	10/27/2015	10/26/2016	<input checked="" type="checkbox"/>

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo



Front View of EUT



Rear View of EUT



Top View of EUT



Bottom View of EUT



Left View of EUT

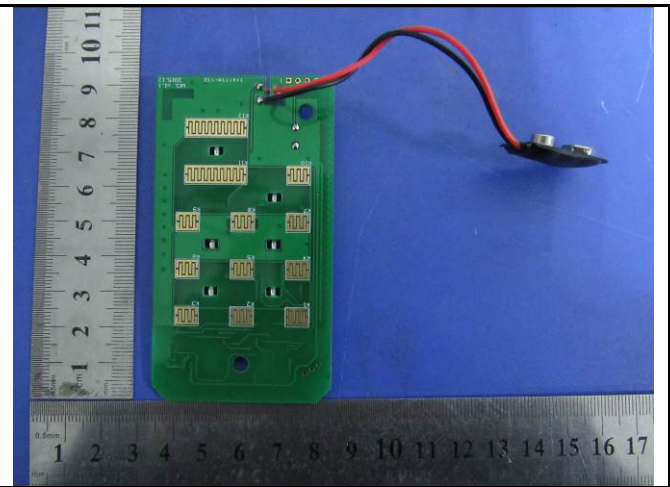


Right View of EUT

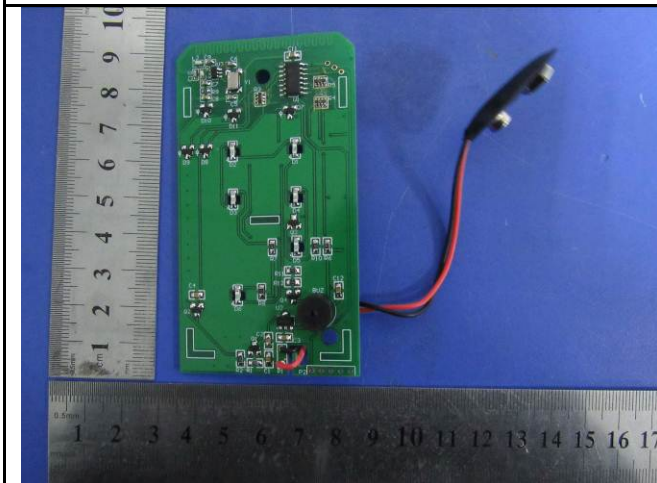
Annex B.ii. Photograph: EUT Internal Photo



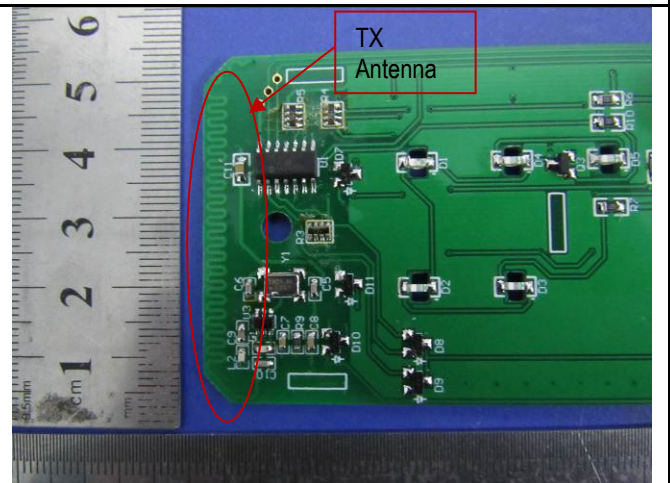
Uncover - Front View



EUT PCBA - Front View



EUT PCBA - Rear View

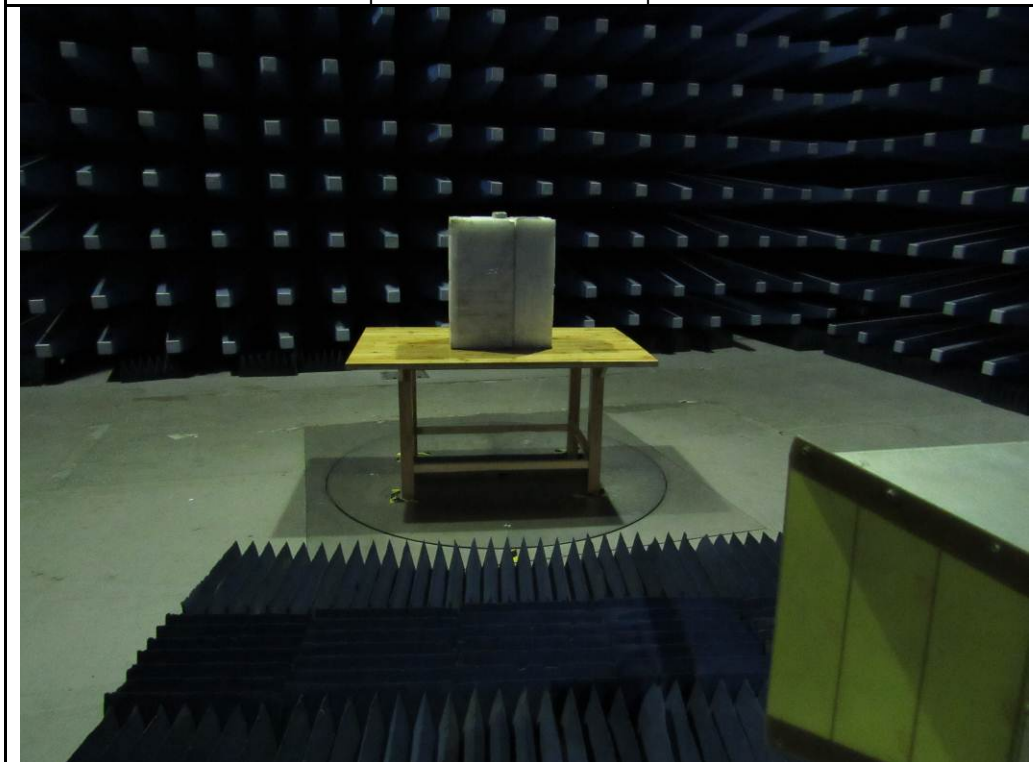


EUT - PCB Rear View

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.ii. TEST SET UP BLOCK

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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	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A

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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment

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Annex E. DECLARATION OF SIMILARITY

To: SIEMIC INC.

Declaration letter

Dear Sir,

For our business issue and marketing requirement, we would like to list different models numbers on the FCC certificates and reports, as following:

Model No.: M12S

Serial Model Name: M12S-X (X=A~Z)

The Main test model M12S and M12S-X (X=A~Z) have the same circuit board and system, just have the different in colors and shell, so the test results in the certification for M12S equally apply to M12S-X(X=A~Z).

Thank you!

Product name: wireless keyless entry

FCC ID: 2AAAL-M12S

Applicant: Dalian Seaside Door Controlling System Co., Ltd

Address: NO.23-7,yaobei road,Ganjingzi District,DALIAN

Company representative:

