

FCC Test Report

Report No.: AGC11200231003FR01

FCC ID : 2ADSH-V3BTZU
APPLICATION PURPOSE : FCC Class II Permissive change
PRODUCT DESIGNATION : Electronic door lock V3
BRAND NAME : Danalock
MODEL NAME : V3-BTZU
APPLICANT : Danalock Aps
DATE OF ISSUE : Oct. 16, 2023
STANDARD(S) : FCC Part 15 Subpart C §15.247
REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 16, 2023	Valid	Initial Release

Note: This Product Contains Bluetooth & ZWave Module (Model: V3-BT)/FCC ID: 2ADSH-V3BT), The RF part data can refer to the reference report number 1-2298/16-01-11-B, only for re-evaluation of Radiated Spurious Emission.

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1. General Information

Applicant	Danalock Aps
Address	Gammel Stillingvej 427C, DK-8462 Harlev J, Denmark
Manufacturer	Danalock Aps
Address	Gammel Stillingvej 427C, DK-8462 Harlev J, Denmark
Factory	Xiamen CMM CO. , LTD
Address	NO. 136 Xin Guang Road, Haicang District Xiamen city, Fujian Province, P.R. China
Product Designation	Electronic door lock V3
Brand Name	Danalock
Test Model	V3-BTZU
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	Oct. 10, 2023
Date of Test	Oct. 10, 2023 - Oct. 16, 2023
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-BLE-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By

Bibo Zhang
(Project Engineer)

Oct. 16, 2023

Reviewed By

Calvin Liu
(Reviewer)

Oct. 16, 2023

Approved By

Max Zhang
Authorized Officer

Oct. 16, 2023

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2. Product Information

2.1 Product Technical Description

Frequency Band	2400MHz-2483.5MHz
Operation Frequency Range	2402MHz-2480MHz
Bluetooth Version	V4.2
Modulation Type	BLE <input checked="" type="checkbox"/> GFSK 1Mbps <input type="checkbox"/> GFSK 2Mbps
Number of channels	40
Carrier Frequency of Each Channel	40 Channels (37 hopping + 3 advertising channels)
Channel Separation	2 MHz
Maximum Transmitter Power	-1.5dBm
Hardware Version	101-025_H1
Software Version	0.22.4 identical to BLE driver in 0.16.0/0.11.0
Antenna Designation	Chip Antenna
Antenna Gain	-0.54dBi
Power Supply	DC 12V (4x CR123A battery)
Adapter Information	N/A

2.2 Test Frequency List

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	0	2402 MHz
	1	2404 MHz
	:	:
	19	2440MHz
	:	:
	38	2478 MHz
	39	2480 MHz
	Note: $f = 2402 + 2*k$ MHz, $k = 0, \dots, 39$ f is the operating frequency (MHz) k is the operating channel.	

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2ADSH-V3BTZU**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

2.5 Special Accessories

Not available for this EUT intended for grant.

2.6 Equipment Modifications

Not available for this EUT intended for grant.

2.7 Antenna Requirement

Standard Requirement
15.203 requirement: 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, 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.
15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi
EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is -0.54dBi.

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3. Test Environment

3.1 Address of the Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 12V

3.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \text{ %}$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \text{ %}$

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3.5 List of Equipment Use

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input type="checkbox"/>	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023-06-01	2024-05-31
<input type="checkbox"/>	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2023-03-03	2024-03-02
<input type="checkbox"/>	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2023-03-03	2024-03-02
<input type="checkbox"/>	AGC-EM-A152	6dB Attenuator	Eatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
<input type="checkbox"/>	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2023-06-01	2024-05-31
<input type="checkbox"/>	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
<input type="checkbox"/>	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2023-02-18	2024-02-17
<input type="checkbox"/>	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2023-06-03	2024-06-02
<input checked="" type="checkbox"/>	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2023-06-01	2024-05-31
<input checked="" type="checkbox"/>	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2022-03-12	2024-03-11
<input checked="" type="checkbox"/>	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
<input checked="" type="checkbox"/>	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2023-03-23	2024-03-22
<input checked="" type="checkbox"/>	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2021-10-31	2023-10-30
<input checked="" type="checkbox"/>	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2022-08-04	2024-08-03
<input checked="" type="checkbox"/>	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2023-06-01	2024-05-31
<input checked="" type="checkbox"/>	AGC-EM-A138	6dB Attenuator	Eatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
<input type="checkbox"/>	AGC-EM-A139	6dB Attenuator	Eatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08

● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input type="checkbox"/>	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2023-06-03	2024-06-02
<input type="checkbox"/>	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2023-06-03	2024/06/02

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● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
<input checked="" type="checkbox"/>	AGC-EM-S003	RE-Test System	FARA	EZ-EMC	VRA-03A
<input type="checkbox"/>	AGC-ER-S012	BT/WIFI-Test System	Tonscend	JS1120-2	2.6
<input checked="" type="checkbox"/>	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0

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4. System Test Configuration

4.1 EUT Configuration

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

4.2 EUT Exercise

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

4.3 Configuration of Tested System

Radiated Emission Configure:



4.4 Equipment Used In Tested System

The following peripheral devices and interface cables were connected during the measurement:

Test Accessories Come From The Laboratory

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	-	-	-	-	-

Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	-	-	-	-	-

4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.209	Radiated Emission	Pass

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5. Description of Test Modes

Summary Table of Test Cases	
Test Item	Data Rate / Modulation
	Bluetooth – LE / GFSK
Radiated&Conducted Test Cases	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps(Battery powered) Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps(Battery powered) Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps(Battery powered)
AC Conducted Emission	N/A

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. The battery is full-charged during the test.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
4. For Conducted Test method, a temporary antenna connector is provided by the manufacturer.

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6. Radiated Spurious Emission

6.1 Measurement Limits

FCC Part 15.209 Limit in the below table to be followed

Frequencies (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

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

6.2 Measurement Procedure

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. 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 emission, 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 RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at 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.
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 "Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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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 values.

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 testing above 1GHz, 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.

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

Spectrum Parameter	Setting
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
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
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

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- **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as shown in the table above
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

- **Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

- **Average Measurements above 1GHz (Method VB)**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW setting requirements are as follows:
 4. If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
 5. If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
6. Detector = Peak
7. Sweep time = auto
8. Trace mode = max hold
8. Trace was allowed to stabilize

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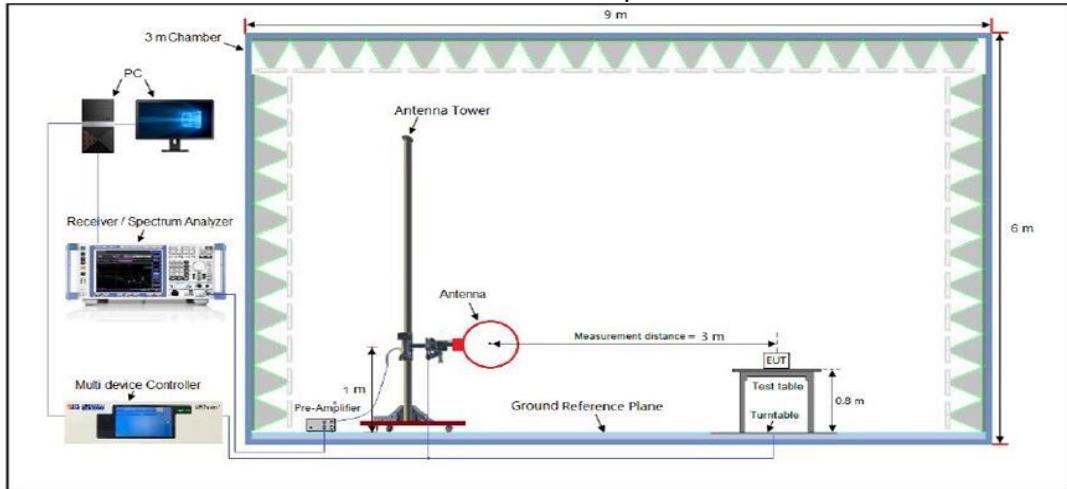
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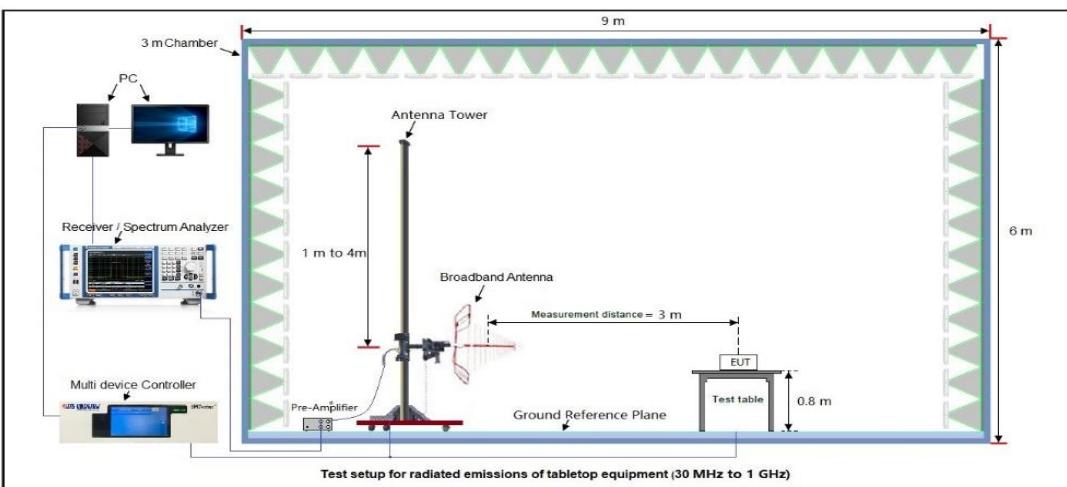
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6.3 Measurement Setup (Block Diagram of Configuration)

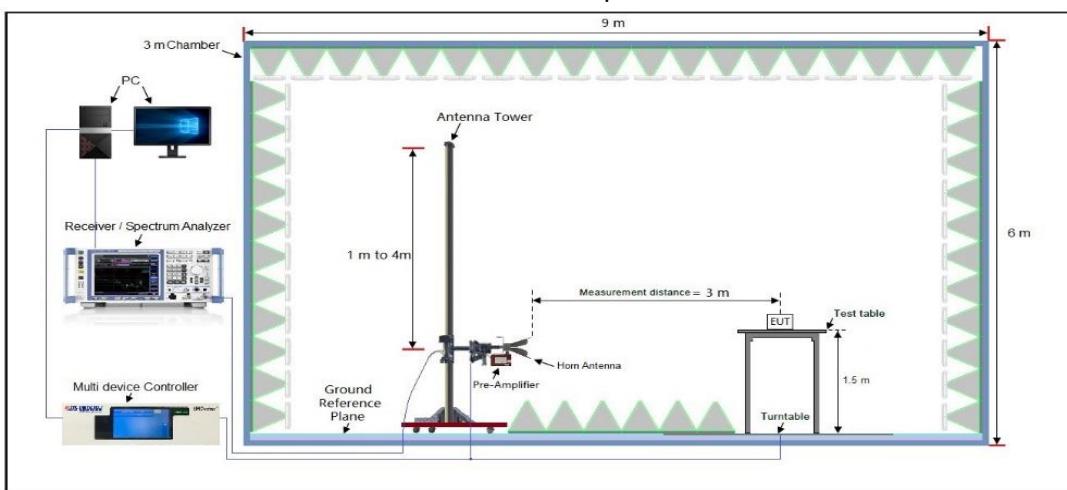
Radiated Emission Test Setup 9KHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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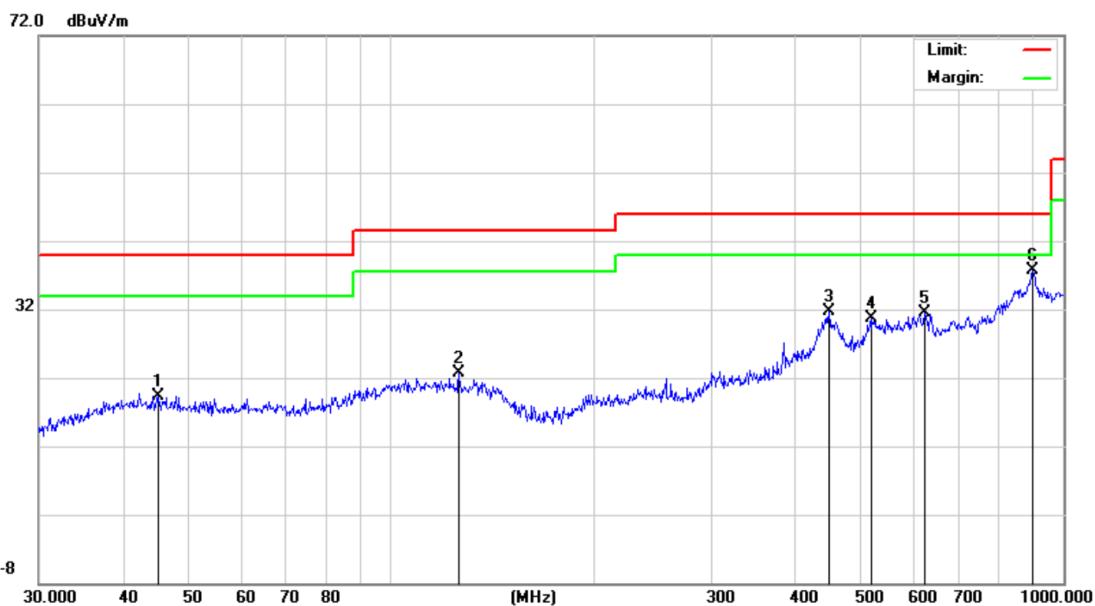
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6.4 Measurement Result

Radiated Emission Below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Test With Battery: CR123A

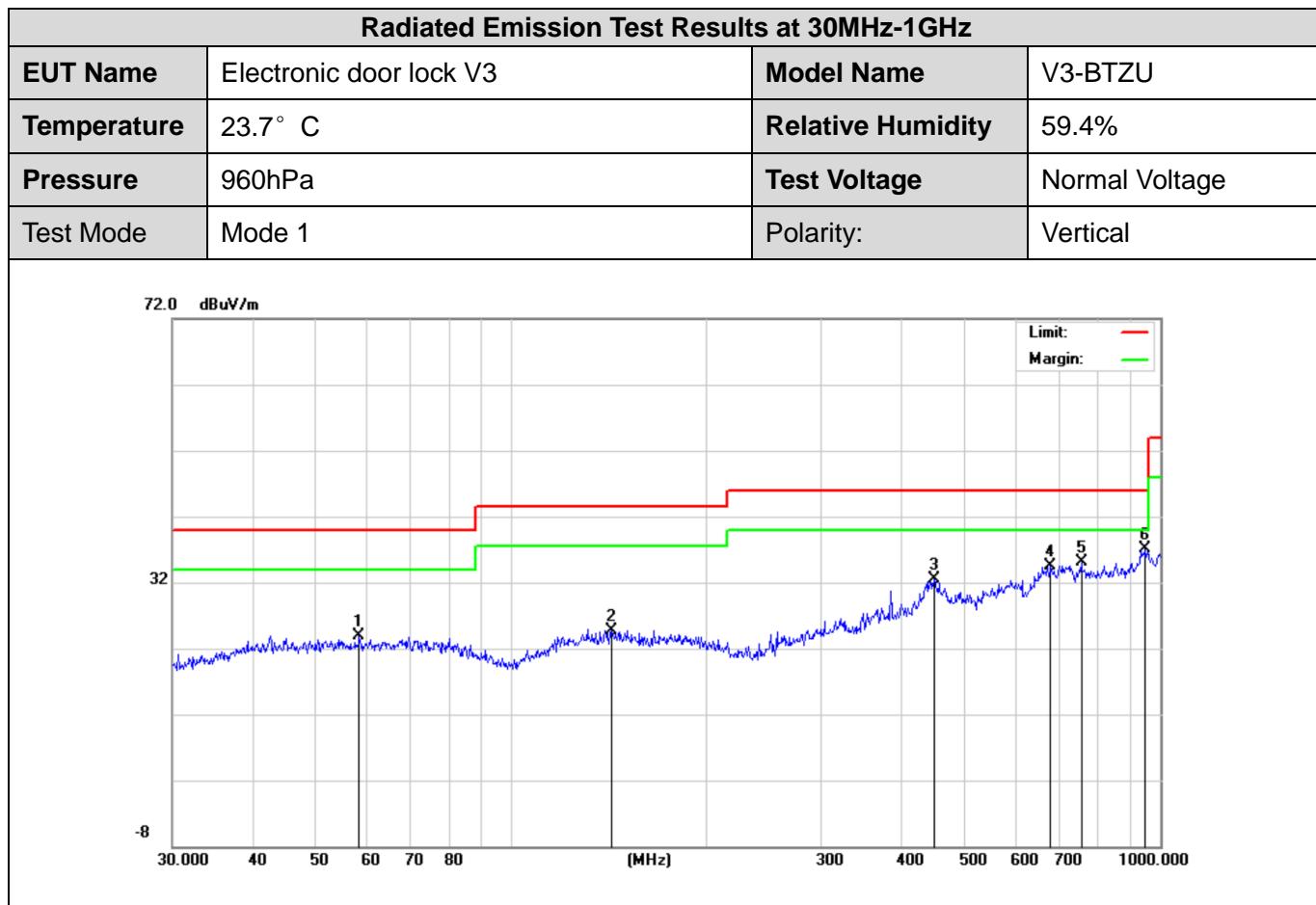
Radiated Emission Test Results at 30MHz-1GHz															
EUT Name	Electronic door lock V3		Model Name	V3-BTZU											
Temperature	23.7° C		Relative Humidity	59.4%											
Pressure	960hPa		Test Voltage	Normal Voltage											
Test Mode	Mode 1		Polarity:	Horizontal											
															
Final Data List															
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity							
1	45.0583	19.40	13.55	40.00	20.6	100	160	Horizontal							
2	126.3285	22.73	16.02	43.50	20.77	100	170	Horizontal							
3	447.9821	31.61	24.82	46.00	14.39	100	90	Horizontal							
4	517.2480	30.71	24.77	46.00	15.29	100	220	Horizontal							
5	620.7096	31.41	25.13	46.00	14.59	100	160	Horizontal							
6	900.1473	37.73	31.78	46.00	8.27	100	140	Horizontal							

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Final Data List

NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	58.2030	23.94	17.08	40.00	16.06	100	160	Vertical
2	142.3243	24.77	18.20	43.50	18.73	100	170	Vertical
3	447.9822	32.54	25.74	46.00	13.46	100	90	Vertical
4	677.5798	34.55	27.68	46.00	11.45	100	220	Vertical
5	755.3873	35.16	27.90	46.00	10.84	100	160	Vertical
6	948.7610	37.13	30.65	46.00	8.87	100	140	Vertical

RESULT: Pass

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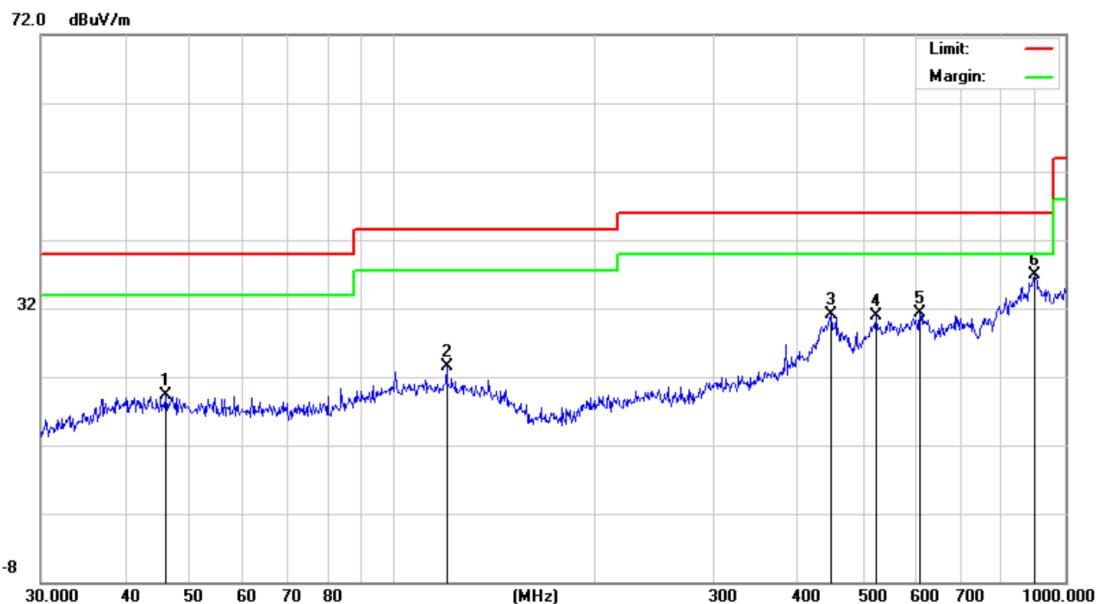
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Test With Battery: 123(CR17345)

Radiated Emission Test Results at 30MHz-1GHz

EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7° C	Relative Humidity	59.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarity:	Horizontal



Final Data List

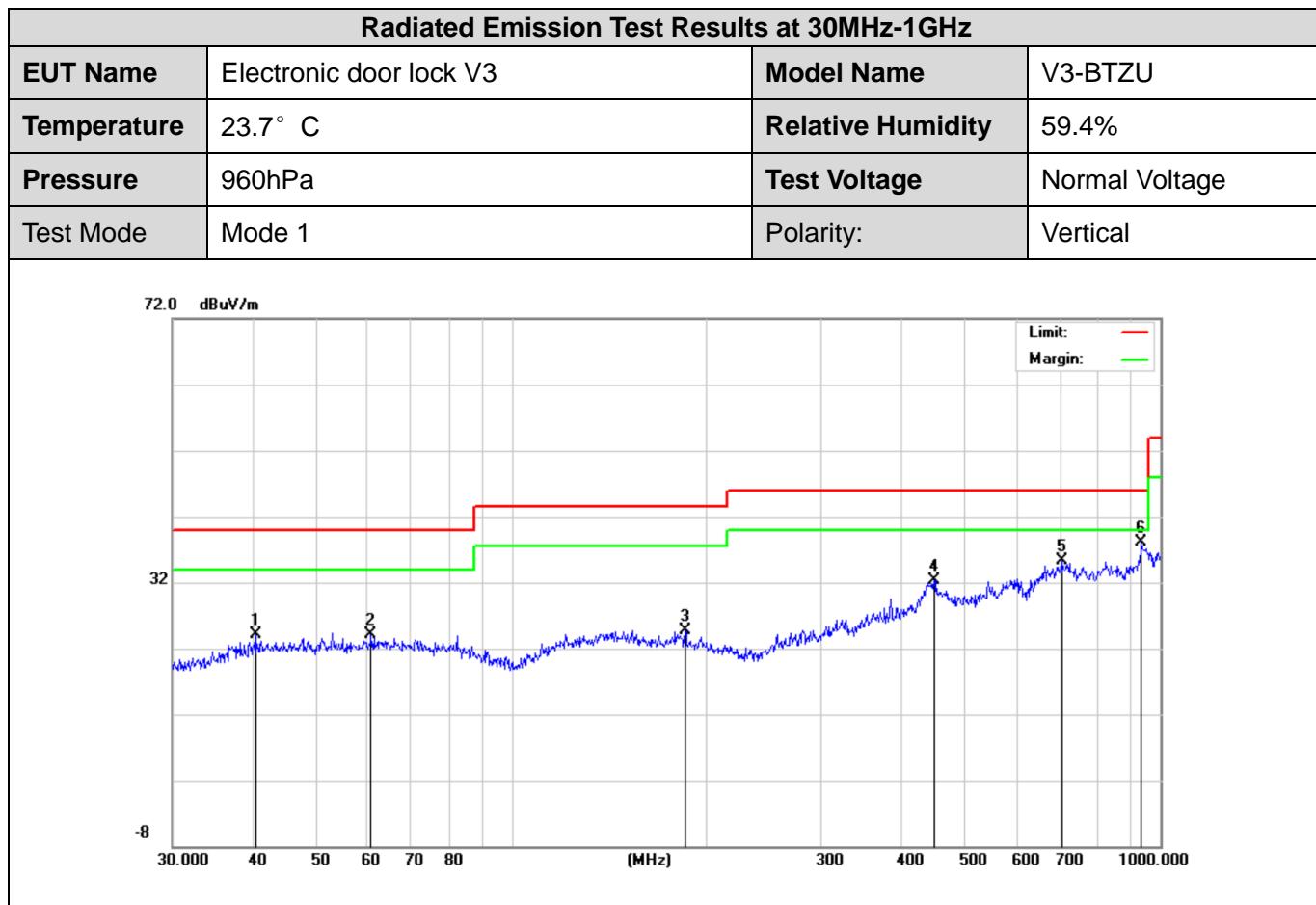
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.0162	19.29	13.48	40.00	20.71	100	160	Horizontal
2	120.2766	23.44	16.38	43.50	20.06	100	170	Horizontal
3	447.9821	31.18	24.82	46.00	14.82	100	90	Horizontal
4	522.7179	30.91	25.02	46.00	15.09	100	220	Horizontal
5	607.7866	31.30	25.14	46.00	14.7	100	160	Horizontal
6	900.1473	36.90	31.78	46.00	9.1	100	140	Horizontal

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Final Data List

NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.2757	24.10	16.90	40.00	15.9	100	160	Vertical
2	60.7044	24.04	17.09	40.00	15.96	100	170	Vertical
3	185.1379	24.78	18.35	43.50	18.72	100	90	Vertical
4	447.9822	32.40	25.74	46.00	13.6	100	220	Vertical
5	706.6999	35.27	28.33	46.00	10.73	100	160	Vertical
6	935.5463	38.12	30.40	46.00	7.88	100	140	Vertical

RESULT: Pass

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.

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Test With Battery: CR123A
 Radiated Emissions Test Results for Above 1 GHz

EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7° C	Relative Humidity	59.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4804.000	47.63	0.08	47.71	74	-26.29	peak
4804.000	38.12	0.08	38.2	54	-15.8	AVG
7206.000	41.05	2.21	43.26	74	-30.74	peak
7206.000	31.53	2.21	33.74	54	-20.26	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7° C	Relative Humidity	59.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4804.000	47.64	0.08	47.72	74	-26.28	peak
4804.000	37.45	0.08	37.53	54	-16.47	AVG
7206.000	42.05	2.21	44.26	74	-29.74	peak
7206.000	31.25	2.21	33.46	54	-20.54	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Electronic door lock V3		Model Name	V3-BTZU	
Temperature	23.7° C		Relative Humidity	59.4%	
Pressure	960hPa		Test Voltage	Normal Voltage	
Test Mode	Mode 2		Antenna Polarity	Horizontal	

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4880.000	46.29	0.14	46.43	74	-27.57	peak
4880.000	37.54	0.14	37.68	54	-16.32	AVG
7320.000	42.05	2.36	44.41	74	-29.59	peak
7320.000	31.05	2.36	33.41	54	-20.59	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Electronic door lock V3		Model Name	V3-BTZU	
Temperature	23.7° C		Relative Humidity	59.4%	
Pressure	960hPa		Test Voltage	Normal Voltage	
Test Mode	Mode 2		Antenna Polarity	Vertical	

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4880.000	46.97	0.14	47.11	74	-26.89	peak
4880.000	47.52	0.14	47.66	54	-6.34	AVG
7320.000	41.05	2.36	43.41	74	-30.59	peak
7320.000	31.28	2.36	33.64	54	-20.36	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Electronic door lock V3		Model Name	V3-BTZU	
Temperature	23.7° C		Relative Humidity	59.4%	
Pressure	960hPa		Test Voltage	Normal Voltage	
Test Mode	Mode 3		Antenna Polarity	Horizontal	

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4960.000	47.64	0.22	47.86	74	-26.14	peak
4960.000	37.52	0.22	37.74	54	-16.26	AVG
7440.000	42.05	2.64	44.69	74	-29.31	peak
7440.000	31.26	2.64	33.9	54	-20.1	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Electronic door lock V3		Model Name	V3-BTZU	
Temperature	23.7° C		Relative Humidity	59.4%	
Pressure	960hPa		Test Voltage	Normal Voltage	
Test Mode	Mode 3		Antenna Polarity	Vertical	

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4960.000	46.28	0.22	46.5	74	-27.5	peak
4960.000	37.54	0.22	37.76	54	-16.24	AVG
7440.000	41.05	2.64	43.69	74	-30.31	peak
7440.000	32.42	2.64	35.06	54	-18.94	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass

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Test With Battery: 123(CR17345)
Radiated Emissions Test Results for Above 1GHz

EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7° C	Relative Humidity	59.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4804.000	47.63	0.08	47.71	74	-26.29	peak
4804.000	37.54	0.08	37.62	54	-16.38	AVG
7206.000	42.05	2.21	44.26	74	-29.74	peak
7206.000	31.42	2.21	33.63	54	-20.37	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7° C	Relative Humidity	59.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4804.000	46.28	0.08	46.36	74	-27.64	peak
4804.000	38.34	0.08	38.42	54	-15.58	AVG
7206.000	42.05	2.21	44.26	74	-29.74	peak
7206.000	31.57	2.21	33.78	54	-20.22	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Electronic door lock V3		Model Name	V3-BTZU	
Temperature	23.7° C		Relative Humidity	59.4%	
Pressure	960hPa		Test Voltage	Normal Voltage	
Test Mode	Mode 2		Antenna Polarity	Horizontal	

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4880.000	46.28	0.14	46.42	74	-27.58	peak
4880.000	37.52	0.14	37.66	54	-16.34	AVG
7320.000	42.18	2.36	44.54	74	-29.46	peak
7320.000	32.57	2.36	34.93	54	-19.07	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Electronic door lock V3		Model Name	V3-BTZU	
Temperature	23.7° C		Relative Humidity	59.4%	
Pressure	960hPa		Test Voltage	Normal Voltage	
Test Mode	Mode 2		Antenna Polarity	Vertical	

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4880.000	46.28	0.14	46.42	74	-27.58	peak
4880.000	37.64	0.14	37.78	54	-16.22	AVG
7320.000	41.05	2.36	43.41	74	-30.59	peak
7320.000	32.46	2.36	34.82	54	-19.18	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Electronic door lock V3		Model Name	V3-BTZU	
Temperature	23.7° C		Relative Humidity	59.4%	
Pressure	960hPa		Test Voltage	Normal Voltage	
Test Mode	Mode 3		Antenna Polarity	Horizontal	

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4960.000	47.64	0.22	47.86	74	-26.14	peak
4960.000	38.61	0.22	38.83	54	-15.17	AVG
7440.000	42.05	2.64	44.69	74	-29.31	peak
7440.000	31.57	2.64	34.21	54	-19.79	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Electronic door lock V3		Model Name	V3-BTZU		
Temperature	23.7° C		Relative Humidity	59.4%		
Pressure	960hPa		Test Voltage	Normal Voltage		
Test Mode	Mode 3		Antenna Polarity	Vertical		

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4960.000	47.62	0.22	47.84	74	-26.16	peak
4960.000	38.12	0.22	38.34	54	-15.66	AVG
7440.000	41.05	2.64	43.69	74	-30.31	peak
7440.000	32.42	2.64	35.06	54	-18.94	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass

Note:

1. The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
2. Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Emission Level-Limit.
3. The “Factor” value can be calculated automatically by software of measurement system.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC11200231003AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC11200231003AP02

-----End of Report-----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract or warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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