
FCC Test Report

Report No.: AGC11200231003FR02

FCC ID : 2ADSH-V3BTZU
APPLICATION PURPOSE : FCC Class II Permissive change
PRODUCT DESIGNATION : Electronic door lock V3
BRAND NAME : Danalock
MODEL NAME : V3-BTZU
CLIENT : Danalock Aps
DATE OF ISSUE : Oct. 16, 2023
STANDARD(S) : FCC Part 15 Subpart C Section 15.249
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-BTZU)/FCC ID: 2ADSH-V3BTZU), The RF part data can refer to the reference report number 1-2298/16-01-13, only for re-evaluation of Radiated Spurious Emission.

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1. VERIFICATION OF CONFORMITY

Applicant	Danalock Aps
Address	Gammel Stillingvej 427C, DK-8462 Harley J, Denmark
Manufacturer	Danalock Aps
Address	Gammel Stillingvej 427C, DK-8462 Harley 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	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

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. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	908.4 MHz, 916MHz
Maximum field strength	90.4dBuV/m(peak)@3m
Modulation	2-FSK
Number of channels	2
Hardware Version	101-027_C1
Software Version	1.3.0
Antenna Designation	Chip Antenna
Antenna Gain	-4.6dBi
Power Supply	DC 12V (4x CR123A battery)

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3. 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%.

- Uncertainty of Conducted Emission, $U_c = \pm 2.9 \text{ dB}$
- 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 Occupied Channel Bandwidth: $U_c = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	908.4MHz channel FSK
2	916MHz channel FSK

Note: 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. The EUT used fully-charged battery when tested.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	-	-	-	-

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

7. TEST EQUIPMENT LIST

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Jun. 01, 2023	May 31, 2024
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2023	Apr. 22, 2024
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 05, 2023	Jan. 04, 2025
Test software	FARA	Ver RA-03A	N/A	N/A	N/A

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8. RADIATED EMISSION

8.1 TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		µ V/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 dB(µV)/m (Peak)	54.0 dB(µV)/m (Average)

Remark:

- (1) Emission level $\text{dB } \mu \text{V} = 20 \log \text{Emission level } \mu \text{V/m}$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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8.2. MEASUREMENT PROCEDURE

1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
3. The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarization Of the antenna are set to make the measurement.
4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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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	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz 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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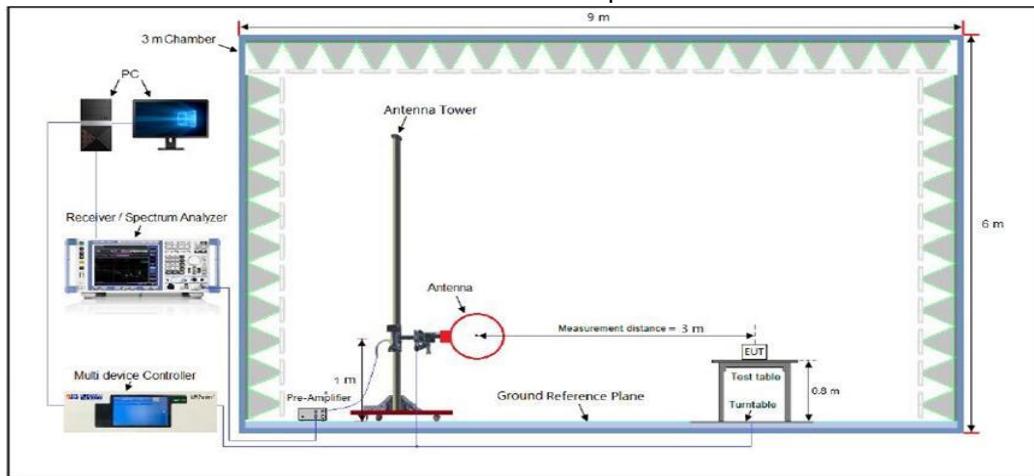
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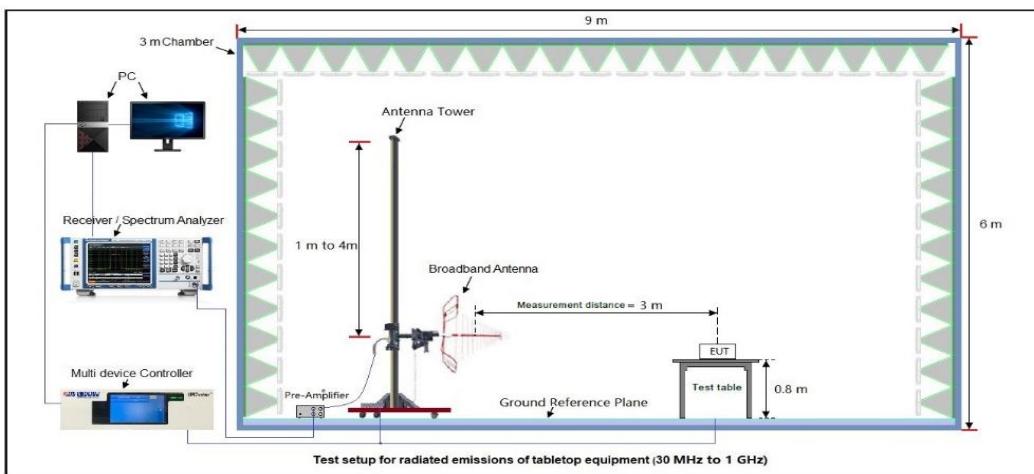
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8.3. TEST SETUP

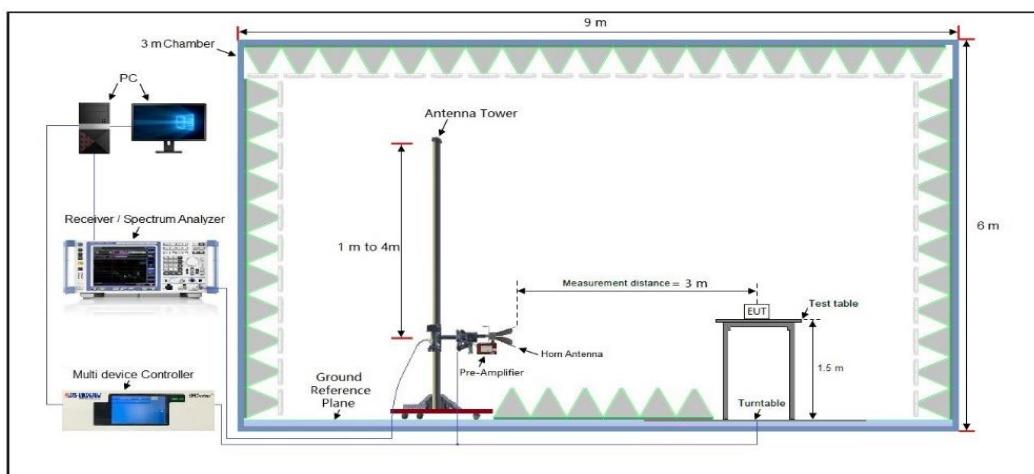
Radiated Emission Test Setup 9KHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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8.4. TEST RESULT

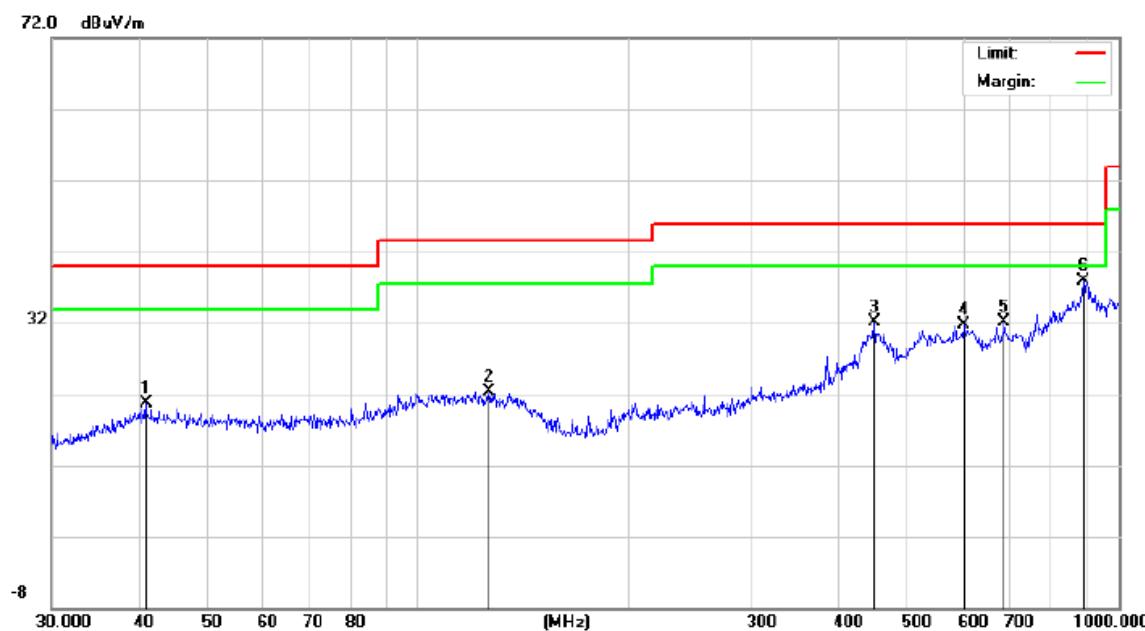
RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

Test With Battery: CR123A

RADIATED EMISSION 30MHz- 1GHZ FOR BR/EDR

EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7°C	Relative Humidity	59.4%
Pressure	1010 hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Polarization	Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		40.8446	6.96	13.84	20.80	40.00	-19.20	peak
2		126.3286	6.32	16.02	22.34	43.50	-21.16	peak
3		447.9822	7.28	24.82	32.10	46.00	-13.90	peak
4		601.4265	6.60	25.11	31.71	46.00	-14.29	peak
5		687.1507	7.59	24.49	32.08	46.00	-13.92	peak
6 *		890.7278	7.30	30.64	37.94	46.00	-8.06	peak

RESULT: PASS

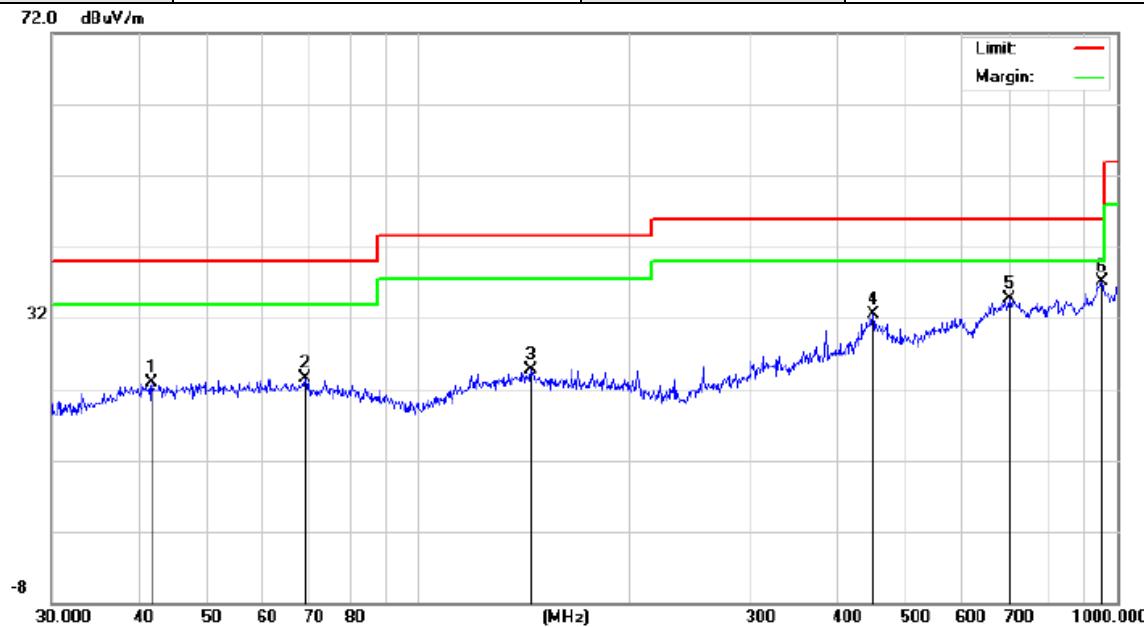
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EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7°C	Relative Humidity	59.4%
Pressure	1010 hPa	Test Voltage	DC 12V
Test Mode :	Mode 1	Polarization :	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	41.7129	5.99	16.92	22.91	40.00	-17.09	peak	
2	69.1140	6.55	17.01	23.56	40.00	-16.44	peak	
3	145.3505	6.46	18.20	24.66	43.50	-18.84	peak	
4	447.9821	6.78	25.74	32.52	46.00	-13.48	peak	
5	701.7609	6.54	28.16	34.70	46.00	-11.30	peak	
6 *	952.0937	6.60	30.52	37.12	46.00	-8.88	peak	

RESULT: PASS

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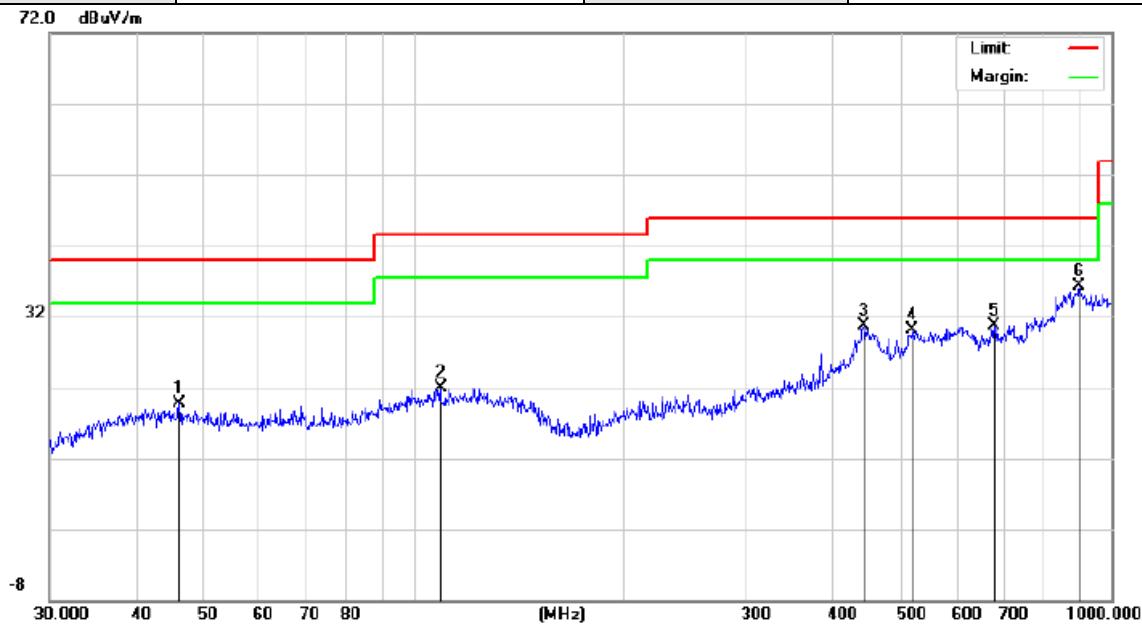
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Test With Battery: 123(CR17345)
RADIATED EMISSION 30MHz- 1GHZ FOR BR/EDR

EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7°C	Relative Humidity	59.4%
Pressure	1010 hPa	Test Voltage	DC 12V
Test Mode :	Mode 1	Polarization :	Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dB _u V	dB	dB _u V/m	dB/m	dB
1		46.0162	6.30	13.48	19.78	40.00	-20.22 peak
2		109.0285	5.65	16.29	21.94	43.50	-21.56 peak
3		441.7425	5.62	25.04	30.66	46.00	-15.34 peak
4		519.0648	4.96	25.05	30.01	46.00	-15.99 peak
5		679.9600	5.96	24.70	30.66	46.00	-15.34 peak
6	*	900.1473	4.58	31.78	36.36	46.00	-9.64 peak

RESULT: PASS

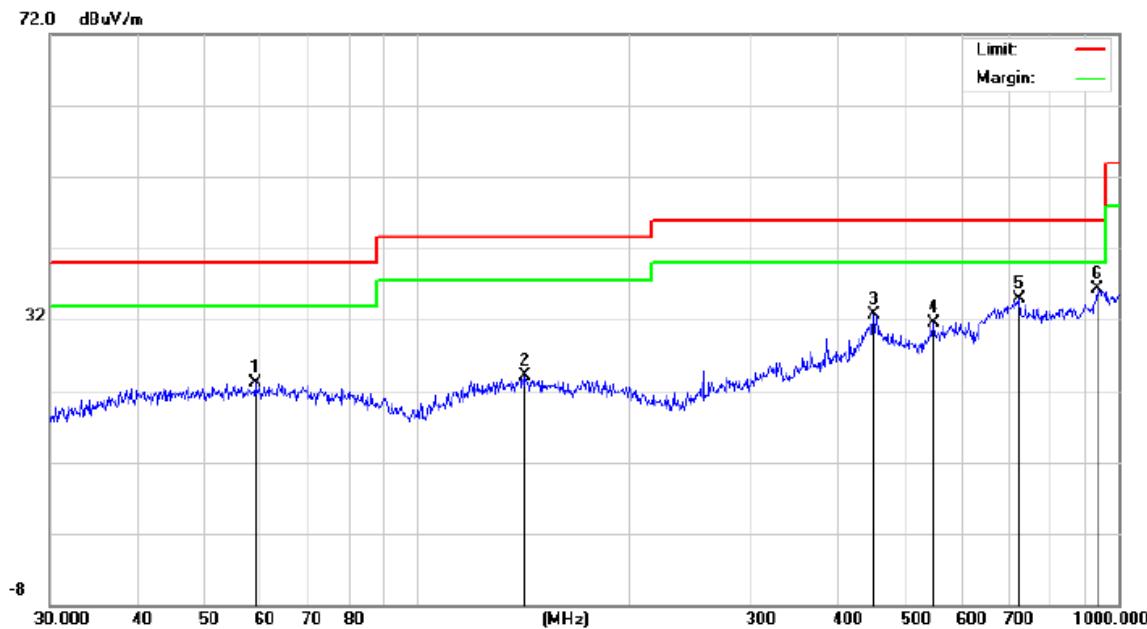
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EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7°C	Relative Humidity	59.4%
Pressure	1010 hPa	Test Voltage	DC 12V
Test Mode :	Mode 1	Polarization :	Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV/m	dB/m	dB
1		58.8185	6.05	17.09	23.14	40.00	-16.86 peak
2		142.8243	5.82	18.20	24.02	43.50	-19.48 peak
3		447.9821	6.93	25.74	32.67	46.00	-13.33 peak
4		545.1825	6.92	24.67	31.59	46.00	-14.41 peak
5		721.7259	6.35	28.64	34.99	46.00	-11.01 peak
6 *		932.2714	6.35	29.96	36.31	46.00	-9.69 peak

RESULT: PASS

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

2. The "Factor" value can be calculated automatically by software of measurement system.
3. The mode 1 is the worst case, and only the data of the worst case recorded in this test report.

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Test With Battery: CR123A
RADIATED EMISSION ABOVE 1GHZ FOR BR/EDR

EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7°C	Relative Humidity	59.4%
Pressure	1010 hPa	Test Voltage	DC 12V
Test Mode :	Mode 1	Polarization :	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
1816.8	44.68	7.12	51.8	74	-22.2	peak
1816.8	35.46	7.12	42.58	54	-11.42	AVG
2725.2	40.15	9.84	49.99	74	-24.01	peak
2725.2	31.58	9.84	41.42	54	-12.58	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	1010 hPa	Test Voltage	DC 12V
Test Mode :	Mode 1	Polarization :	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
1816.8	45.38	7.12	52.5	74	-21.5	peak
1816.8	36.24	7.12	43.36	54	-10.64	AVG
2725.2	41.54	9.84	51.38	74	-22.62	peak
2725.2	32.48	9.84	42.32	54	-11.68	AVG

Remark:

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

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EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7°C	Relative Humidity	59.4%
Pressure	1010 hPa	Test Voltage	DC 12V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits	Margin (dB)	Value Type
1832	46.28	7.12	53.4	74	-20.6	peak
1832	37.42	7.12	44.54	54	-9.46	AVG
2748	41.05	9.84	50.89	74	-23.11	peak
2748	32.43	9.84	42.27	54	-11.73	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	1010 hPa	Test Voltage	DC 12V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits	Margin (dB)	Value Type
1832	47.61	7.12	54.73	74	-19.27	peak
1832	37.52	7.12	44.64	54	-9.36	AVG
2748	41.54	9.84	51.38	74	-22.62	peak
2748	31.59	9.84	41.43	54	-12.57	AVG

Remark:

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

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Test With Battery: 123(CR17345)
RADIATED EMISSION ABOVE 1GHZ FOR BR/EDR

EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7°C	Relative Humidity	59.4%
Pressure	1010 hPa	Test Voltage	DC 12V
Test Mode :	Mode 1	Polarization :	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)	
1816.8	45.97	7.12	53.09	74	-20.91	peak
1816.8	36.24	7.12	43.36	54	-10.64	AVG
2725.2	41.05	9.84	50.89	74	-23.11	peak
2725.2	30.57	9.84	40.41	54	-13.59	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	1010 hPa	Test Voltage	DC 12V
Test Mode :	Mode 1	Polarization :	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)	
1816.8	46.91	7.12	54.03	74	-19.97	peak
1816.8	36.24	7.12	43.36	54	-10.64	AVG
2725.2	42.05	9.84	51.89	74	-22.11	peak
2725.2	31.47	9.84	41.31	54	-12.69	AVG

Remark:

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

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EUT Name	Electronic door lock V3	Model Name	V3-BTZU
Temperature	23.7°C	Relative Humidity	59.4%
Pressure	1010 hPa	Test Voltage	DC 12V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits	Margin (dB)	Value Type
1832	47.64	7.12	54.76	74	-19.24	peak
1832	37.05	7.12	44.17	54	-9.83	AVG
2748	42.55	9.84	52.39	74	-21.61	peak
2748	32.49	9.84	42.33	54	-11.67	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	1010 hPa	Test Voltage	DC 12V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits	Margin (dB)	Value Type
1832	47.31	7.12	54.43	74	-19.57	peak
1832	36.97	7.12	44.09	54	-9.91	AVG
2748	41.56	9.84	51.4	74	-22.6	peak
2748	32.08	9.84	41.92	54	-12.08	AVG

Remark:

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

RESULT: PASS

Note: Other emissions from 8G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC11200231003AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC11200231003AP02

----END OF REPORT----

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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.
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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.

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