

TEST REPORT

Report No.:	BCTC2306052958-2E
Applicant:	ZHEJIANG KEHON INTELLIGENT SCIENCE & TECHNOLOGY CO., LTD.
Product Name:	Smart Door Lock
Model/Type reference:	ZN-S03
Tested Date:	2023-07-03 to 2023-07-26
Issued Date:	2023-07-31

Shenzhen BCTC Testing Co., Ltd.



No. : BCTC/RF-EMC-007

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Edition B.0



FCC ID: 2BCIBZN-S03

Product Name:	Smart Door Lock
Trademark:	N/A
Hademark.	
Model/Type Ref.:	ZN-S03 ZN-S01, ZN-S08
Prepared For:	ZHEJIANG KEHON INTELLIGENT SCIENCE & TECHNOLOGY CO., LTD.
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Sample Received Date:	2023-06-27
Sample tested Date:	2023-07-03 to 2023-07-26
Issue Date:	2023-07-31
Report No.:	BCTC2306052958-2E
Test Standards	FCC Part15.225 ANSI C63.10-2013
Test Results	PASS

Tested by:

Eric Yang/Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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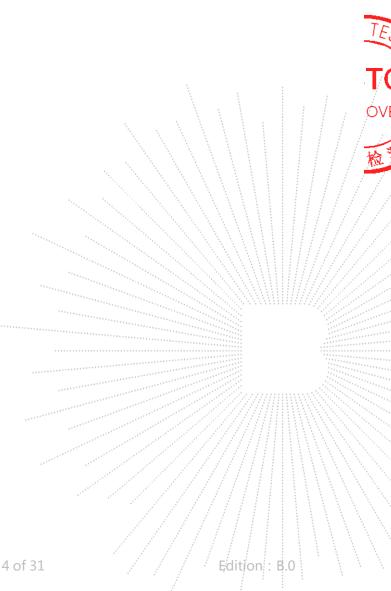
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	EUT Test Setup Photographs	

(Note: N/A Means Not Applicable)

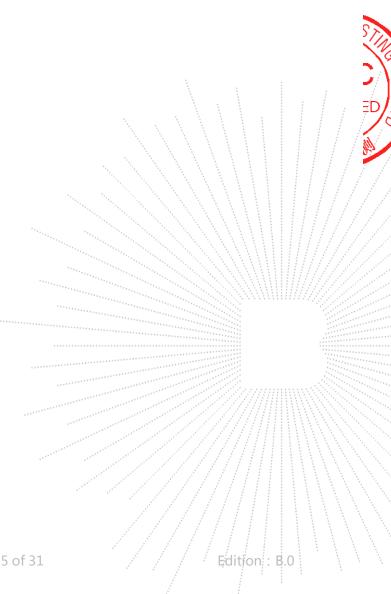


No.: BCTC/RF-EMC-007



Version 1.

Report No.	Issue Date	Description	Approved
BCTC2306052958-2E	2023-07-31	Original	Valid



No. : BCTC/RF-EMC-007



2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	15.207	Conducted Emission	N/A ¹
2	Part 15.209(a), 15.225(d)	Radiated Spurious Emission	PASS
3	15.215	Bandwidth	PASS
4	Part 15.209(a), 15.225(a)(b)(c)(d)	Band Edge Emission	PASS
5	Part 15.225(e)	Transmitter Frequency Stability (Temperature & Voltage Variation)	PASS
6	15.203	Antenna Requirement	PASS

Note:

1. The EUT is powered by the DC only, the test item is not applicable

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3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C



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4. Product Information And Test Setup

4.1 Product Information

Model/Type Ref.:	ZN-S03 ZN-S01, ZN-S08
Model differences:	All the model are the same circuit and RF module, except model names and color.
Operation Frequency:	13.56 MHz
Modulation Type:	ASK
Number Of Channel	1 CH
Antenna installation:	Coil Antenna
Antenna Gain:	1.6 dBi
Ratings:	DC 6V From battery

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Radiated Spurious Emission

E-1 EUT

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
			····		
			10 million and 10 million		NNN 177.
			· · ·		

ltem	Shielded Type	Ferrite Core	Length

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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4.4 Channel List

Channel List		
Channel Frequency(MHz)		
01	13.56	

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For All Mode	Description
Mode 1	TX Mode

Link mode(conducted emission and Radiated emission)			
Final Test Mode	Description		
Mode 1	TX Mode		

Notes:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) Fully-charged battery is used during the test.

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5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards. FCC Test Firm Registration Number: 712850 A2LA certificate registration number is: CN1212 ISED Registered No.: 23583 ISED CAB identifier: CN0017

	RF Conducted Test								
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.				
Power Metter	Keysight	E4419	١	May 15, 2023	May 14, 2024				
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024				
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024				
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024				
Communication test set	R&S	CMW500	126173	Nov. 08, 2022	Nov. 07, 2023				
Radio frequency control box	MAIWEI	MW200-RFC B	<i>ا</i> ^{۲۰} ۰۰ _{۲۰}						
Software	MAIWEI	MTS 8200	· · · · · · · · · · · · · · · · · · ·		Ι				

5.2 Test Instrument Used

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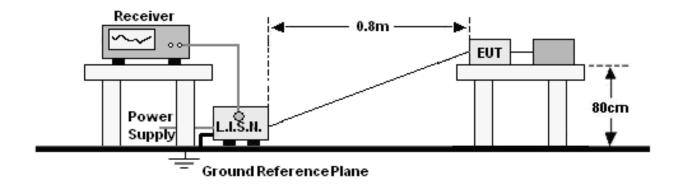
	Radiated Emissions Test (966 Chamber01)							
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.			
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026			
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024			
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024			
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024			
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024			
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024			
Amplifier	SKET	LAPA_01G18 G-45dB	١	May 15, 2023	May 14, 2024			
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024			
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 15, 2023	May 14, 2024			
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024			
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024			
Communication test set	R&S	CMW500	126173	Nov. 08, 2022	Nov. 07, 2023			
Software	Frad	EZ-EMC	FA-03A2 RE	\ \	١			

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6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)		
FREQUENCE (MHZ)	Quas-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Notes:

1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

6.3 Test Procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9.kHz

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

6.5 Test Result

The EUT is powered by the DC only, the test item is not applicable.

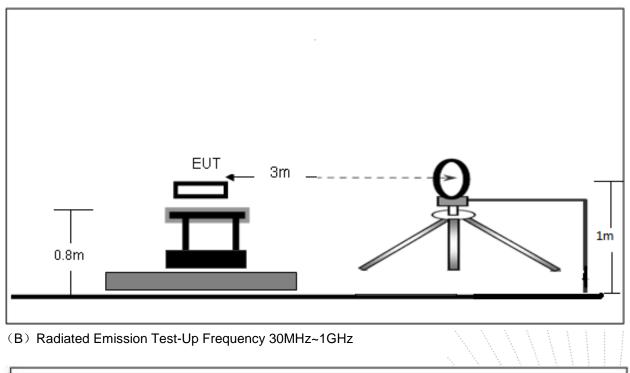
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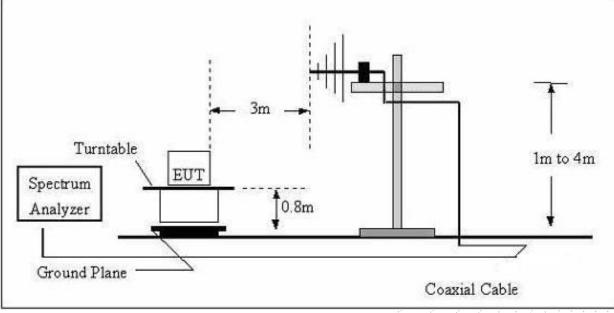


7. Radiated Emissions

7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz





F



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance			
(MHz)	uV/m	(m)	uV/m	dBuV/m		
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80		
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40		
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40		
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾		
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾		
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾		
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾		

Receiver Parameter	Setting			
Attenuation	Auto			
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			

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).

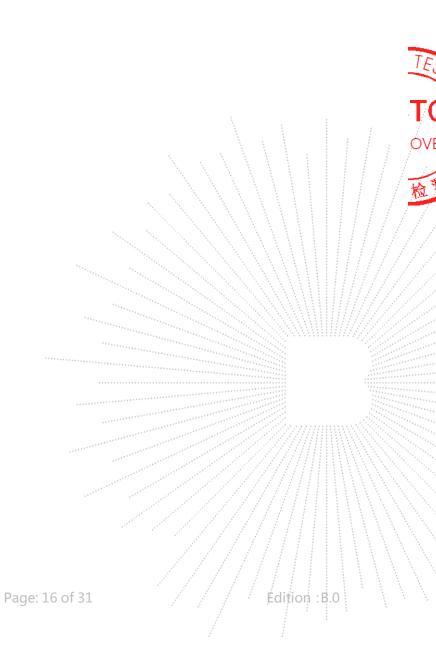
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.



7.3 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



No. : BCTC/RF-EMC-007



7.4 Test Result

9672 - 3010172					
Temperature:	26°C	Relative Humidity:	54%		
Pressure:	101 kpa	Test Voltage :	DC 6V		
Test Mode :	Mode 2	Polarization:	Coaxial		

).0 dBuV/m		
		FCC Part15 9k-30M
5		Margin -6 dB
Mart Mart Martineger		
"man holy	2	
	2 Manuara 3	
	3 4 5	6
	and 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	6 X
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	2 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1	6 ×
		6
		6 ************************************

0.003			(MI12)				30.000
No. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	0.0641	64.99	-10.59	54.40	111.4	-57.07	peak
2	0.1309	55.09	-10.09	45.00	105.2	-60.27	peak
3	0.2898	45.88	-10.28	35.60	98.36	-62.76	peak
4	0.5113	43.19	-10.26	32.93	73.43	-40.50	peak
5	2.7856	36.99	-10.04	26.95	69.54	-42.59	peak
6*	13.6585	39.82	-9.28	30.54	69.54	-39.00	peak

Note:

Pre-scan in the all of mode, the worst case in of was recorded. Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.

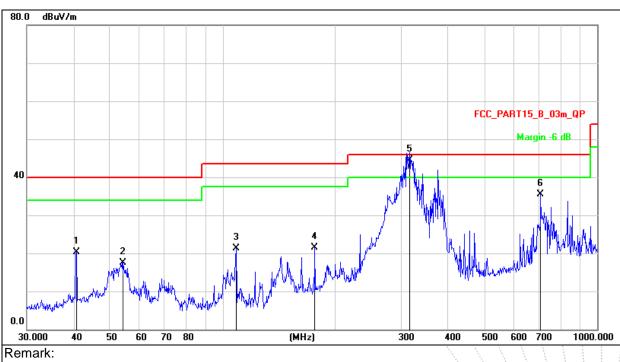
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.



Between 30MHz – 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 1	Test Voltage:	DC 6V



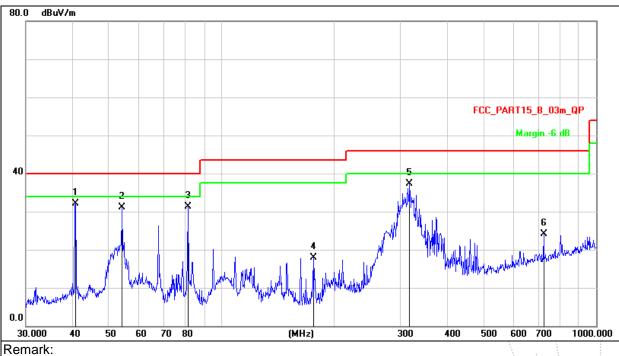
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. Measurement=Reading Level+ Correct Factor 3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		40.7014	36.97	-16.64	20.33	40.00	-19.67	QP
2		54.2610	33.82	-16.23	17.59	40.00	-22.41	QP
3		108.6470	39.55	-18.33	21.22	43.50	-22.28	QP
4		176.2686	40.65	-19.12	21.53	43.50	-21.97	QP
5	*	315.4808	58.48	-14.03	44.45	46.00	-1.55	QP
6		706.6997	42.50	-7.08	35.42	46.00	-10.58	QP



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 1	Test Voltage :	DC 6V



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

2. Measurement=Reading Level+ Correct Factor

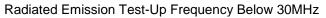
3.	Over=	Measurement	Limit

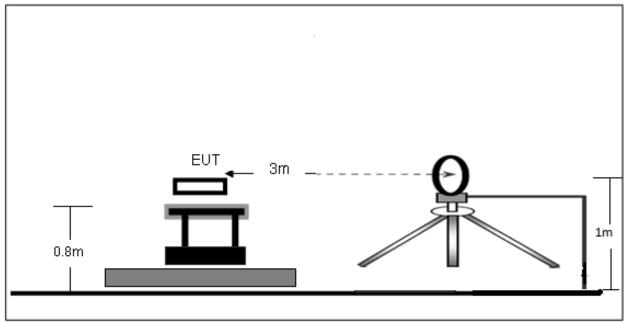
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	40.7016	48.73	-16.64	32.09	40.00	-7.91	QP
2		54.2610	47.25	-16.23	31.02	40.00	-8.98	QP
3		81.4970	52.55	-21.21	31.34	40.00	-8.66	QP
4		175.6516	37.03	-19.16	17.87	43.50	-25.63	QP
5		317.7011	51.33	-13.95	37.38	46.00	-8.62	QP
6		724.2611	30.80	-6.79	24.01	46.00	-21.99	QP



8. Radiated Band Emission Measurement

8.1 Block Diagram Of Test Setup





8.2 Limit

FCC Part15 C Section 15.209 and 15.225

LIMITS OF RADIATED EMISSION MEASUREMENT (Below 30MHz)

a. 15.848 microvolts/m (84 dB μ V/m) at 30 m, within the band 13.553–13.567 MHz.

b. 334 microvolts/m (50.5 dB μ V/m) at 30 m, within the bands 13.410– 13.553 MHz and 13.567– 13.710 MHz.

c. 106 microvolts/m (40.5 dB μ V/m) at 30 m, within the bands 13.110– 13.410 MHz and 13.710– 14.010 MHz.

d. 30 microvolts/m (29.5 dB μ V/m) at 30 m, outside the band 13.110– 14.010 MHz.

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



8.3 Test Procedure

- a. The Product is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The maximum values of the field strength are recorded by adjusting the polarizations of the test antenna and rotating the turntable.
- b. For each suspected emission, the Product was arranged to its worst case and then turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- c. The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

8.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.5 Unless otherwise a special operating condition is specified in the follows during the testing. The report only show the worst antenna Polarity's data.

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8.5 Test Result

0.0 dB	uV/m						
65						Margin	FCC -6 dB
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1 2	3 *	4 5 ★~~~~	6 X	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	7
.0			(MHz)				14.00
No.	Mk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dB/m	dÐ	Detect
1	13.4016	33.54	-9.31	24.23	80.50	-56.27	peak
2	13.4558	33.69	-9.31	24.38	90.50	-66.12	peak
3	13.5600	44.62	-9.29	35.33	124.0	-88.67	peak
4	13.6310	34.23	-9.28	24.95	90.50	-65.55	peak
5	13.7080	35.17	-9.27	25.90	90.50	-64.60	peal
	10.0074	34.12	-9.25	24.87	80.50	-55.63	peal
6	13.8071	34.12	-8.20	24.01		00.00	



#### 9. Bandwidth Test

#### 9.1 Block Diagram Of Test Setup



#### 9.2 Test Procedure

FCC Part15 (15.215)				
Section	Test Item			
15.215	Bandwidth			

1. Set RBW = 1% to 5% of the OBW

2. Set the video bandwidth (VBW)  $\geq$ RBW.

3. Detector = Peak.

4. Trace mode = max hold.

5. Sweep = auto couple.

6. Allow the trace to stabilize.

7. 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.

#### 9.3 EUT Operation Conditions

The EUT tested system was configured as the statements of 4.2 Unless otherwise a special operating condition is specified in the follows during the testing.

No. : BCTC/RF-EMC-007

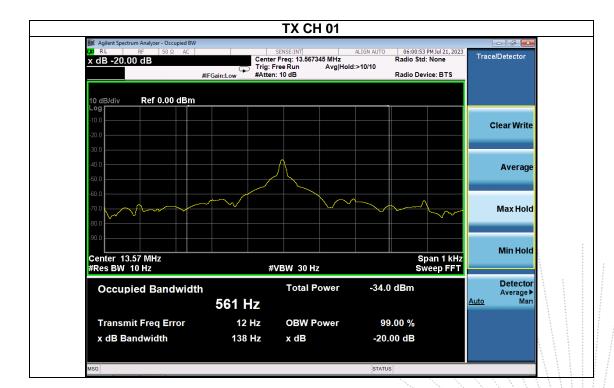
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#### 9.4 Test Result

Temperature :	26°C	Relative Humidity :	54%
Test Mode :	ASK	Test Voltage :	DC 6V
	Frequency		20dB bandwidth
	Frequency (MHz)	-	20dB bandwidth (kHz)



c. CO.,LTh

Edition : B.O



#### **10. Transmitter Frequency Stability**

#### 10.1 Block Diagram Of Test Setup



#### 10.2 Limit

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery. Limit:  $\pm 0.01\%$  of 13.56MHz=1356Hz

Elimit: ±0.01 % of 15.5000 12=15501

#### 10.3 Test Procedure

- 1. Set RBW = 10 kHz.
- 2. Set the video bandwidth (VBW) ≥RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. The transmitter output (antenna port) was connected to the spectrum analyzer.

#### 10.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.5 Unless otherwise a special operating condition is specified in the follows during the testing.



# 10.5 Test Result

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 6V
Test Mode :	TX Mode		

Test Conditions			Freque	ency Deviation	Limit	Result
Frequency MHz	Power(Vdc)	Temperature (℃)	Measured Freq. (MHz)	Frequency Error(Hz)	(Hz)	Result
	6	-20	13.56007	70		
	6	-10	13.56003	30		PASS
	6	0	13.56005	50		
	6	10	13.56004	40	±1356	
13.56	6	20	13.56011	110		
13.50	6	30	13.56006	60		
	6	40	13.56002	20		
	6	50	13.56004	40		
	5.1	20	13.56003	30		
	6.9	20	13.56009	90		



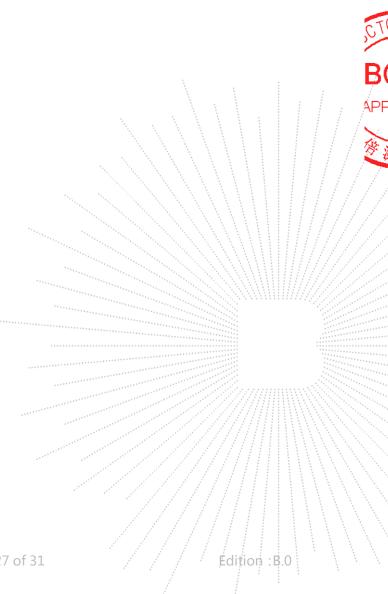
# 11. Antenna Requirement

# 11.1 Standard Requirement

15.203 requirement: For intentional device, according to 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.

#### 11.2 EUT Antenna

The EUT antenna is Coil Antenna, It comply with the standard requirement.





# 12. EUT Photographs



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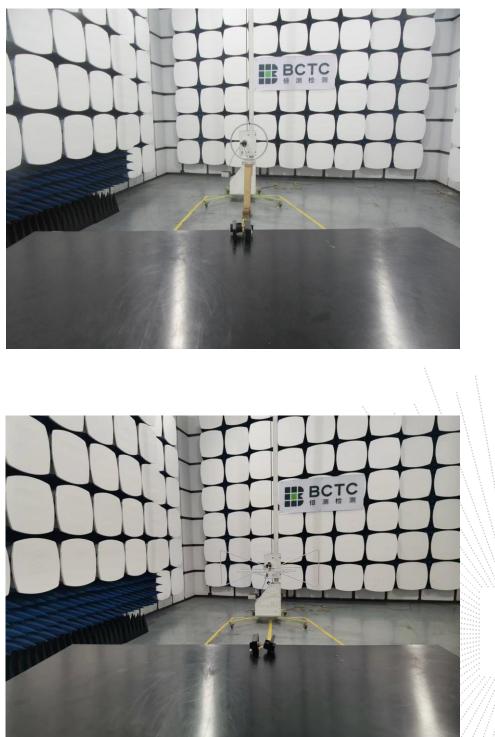
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# 13. EUT Test Setup Photographs

# **Radiated Measurement Photos**





# STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
- 7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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***** END *****

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