

FCC 47 CFR Part 15 Subpart B TEST REPORT

For

Doorbell Plug-in Chime

MODEL NUMBER: E98BQ4N, MI-CW074-125W, E98BQXN(X is 0~9)

REPORT NUMBER: E04A24020145F00401

ISSUE DATE: March 16, 2024

FCC ID: Z63-E98BQ4N

Prepared for

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Prepared by

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Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

This report is based on a single evaluation of the submitted sample(s) of the above mentioned Product, it does not imply an assessment of the production of the products.

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TRF No.: 04-E001-0B TRF Originator: GTG TRF Date: 2023-12-13 Web: www.gtggroup.com E-mail: info@gtggroup.com Tel.: 86-400 755 8988

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 16, 2024	Initial Issue	

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Summary of Test Results

Emission							
Standard	Test Item	Limit	Result				
	Conducted emissions	FCC Part 15.107	Pass				
FCC 47 CFR Part 15 Subpart B	Radiated emissions below 1GHz	FCC Part 15.109	Pass				
	Radiated emissions above 1GHz	FCC Part 15.109	Pass				

^{*}This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

^{*}The measurement result for the sample received is <Pass> according to <FCC 47 CFR Part 15 Subpart B> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: SHENZHEN AONI ELECTRONIC CO., LTD

Address: No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road,Xin'An

streets, Bao'an District, Shen Zhen, China

Manufacturer Information

Company Name: Shenzhen Keyu Power Supply Technology Co.,Ltd.

Address: 2~3F,No.13, Lane3, Yuquan East Road, the 2nd, Industrial Park,

Yulv, Guangming District, 518000 Shenzhen, PEOPLE'S

REPUBLIC OF CHINA

EUT Information

Product Description: Doorbell Plug-in Chime

Model: E98BQ4N, MI-CW074-125W, E98BQXN(X is 0~9)

Brand: Merkury

Sample Received Date: March 12, 2024

Sample Status: Normal

Sample ID: A24020145 001

Date of Tested: March 14, 2024 to March 15, 2024

APPLICABLE STANDARDS				
STANDARD TEST RESULTS				
FCC 47 CFR Part 15 Subpart B	Pass			

Prepared By:

Juk content G

Shawn Wen

Laboratory Manager

TRF No.: 04-E001-0B

Checked By:

Alan He

Laboratory Leader

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR Part 15 Subpart B

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 6947.01)	
	Guangdong Global Testing Technology Co., Ltd.	
	has been assessed and proved to be in compliance with A2LA.	
	FCC (FCC Designation No.: CN1343)	
	Guangdong Global Testing Technology Co., Ltd.	
	has been recognized to perform compliance testing on equipment	
Accreditation Certificate	subject to Supplier's Declaration of Conformity (SDoC) and	
	Certification rules	
	ISED (Company No.: 30714)	
	Guangdong Global Testing Technology Co., Ltd.	
	has been registered and fully described in a report filed with ISED.	
	The Company Number is 30714 and the test lab Conformity	
	Assessment Body Identifier (CABID) is CN0148.	

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	К	U(dB)
Conducted emissions	0.009 MHz - 30 MHz	2	3.37
Radiated emissions below 1GHz	30 MHz -1 GHz	2	3.79
Radiated emissions above 1GHz	1 GHz - 18 GHz	2	5.62

Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Doorbell Plug-in Chime	
Model		E98BQ4N	
Series Model		MI-CW074-125W, E98BQXN(X is 0~9)	
EUT Classificatio	n	Class B	
Hardware Version	n	V1.1	
Software Version		/	
Frequency Band		433.92MHz	
Ratings		100-240V~ 50/60Hz 0.2A Max	
Power Supply AC		120V/60Hz	
Note: The EUT is	only a receive	er.	

5.2. TEST MODE

Test Mode	Description
M01	Normal Working: Operate according to the user manual

5.3. SUPPORT UNITS FOR SYSTEM TEST

No.	Equipment	Manufacturer	Model No.	Serial No.
1	Smart Battery	SHENZHEN AONI	ER02201	1
'	Doorbell Camera	ELECTRONIC CO., LTD	LINOZZOT	,
2	USB-C cable	SHENZHEN AONI	1	1
2	(0.56m)	ELECTRONIC CO., LTD	/	,
3	phone	Xiaomi	21091116AC	/

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6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted emissions						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
Shielding Room 1	CHENG YU	8*5*4	N/A	2022/10/29	2025/10/28	
LISN	R&S	ENV216	102843	2023/9/18	2024/9/17	
EMI Test Receiver	R&S	ESR3	102647	2023/9/18	2024/9/17	
LISN	Schwarzbeck	NNLK 8129 RC	5046	2023/9/18	2024/9/17	
8-Wire ISN CAT6	Schwarzbeck	NTFM 8158	#237	2023/9/18	2024/9/17	
CURRENT PROBE	R&S	EZ-17	101602	2023/9/18	2024/9/17	
Test Software for CE	Farad	EZ-EMC	V1.1.4.2	N/A	N/A	

Test Equipment of Radiated emissions below 1GHz						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
Chamber	ETS	9*6*6	Q2146	2022/8/30	2025/8/29	
Receiver	R&S	ESCI3	101409	2023/9/18	2024/9/17	
Loop Antenna	ETS	6502	243668	2022/3/30	2025/3/30	
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2023/9/18	2024/9/17	
Biconilog Antenna	Schwarzbeck	VULB 9168	1315	2022/10/10	2025/10/9	
Biconilog Antenna	ETS	3142E	243646	2022/3/23	2025/3/22	
Test Software for RE	Farad	EZ-EMC	V1.1.4.2	N/A	N/A	

Test Equipment of Radiated emissions above 1GHz						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
Spectrum Analyzer	R&S	FSV40	101413	2023/9/18	2024/9/17	
Pre-Amplifier	HzEMC	HPA-1G1850	HYPA21003	2023/9/18	2024/9/17	
Horn antenna	ETS	3117	246069	2022/3/11	2025/3/10	
Pre-Amplifier	ETS	HPA-184057	HYPA21004	2023/9/18	2024/9/17	
Horn antenna	ETS	3116C	246265	2022/3/29	2025/3/28	
Test Software for RE	Farad	EZ-EMC	V1.1.4.2	N/A	N/A	

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7. EMISSION TEST

7.1. CONDUCTED EMISSIONS

LIMITS

CFR 47 FCC Part15 Subpart B					
FREQUENCY	Class A	A (dBµV) Class		B (dBµV)	
(MHz)	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46*	
0.50 -5.0	73.00	60.00	56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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

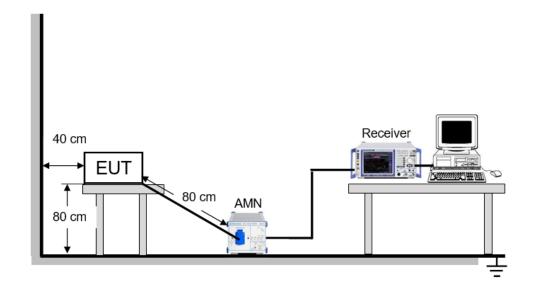
TEST PROCEDURE

- 1. The testing follows the guidelines in ANSI C63.4-2014.
- 2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/50uH of coupling impedance for the measuring instrument.
- 3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 5. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

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TEST SETUP



TEST ENVIRONMENT

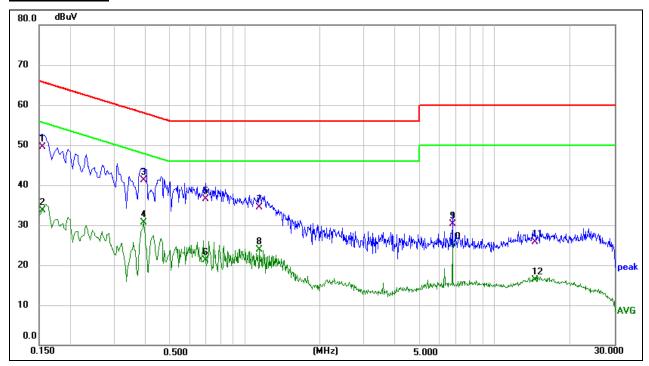
Temperature	23.5℃	Relative Humidity	54%
Atmosphere Pressure	101kPa		

TEST MODE

Pre-test Mode:	M01
Final Test Mode:	M01

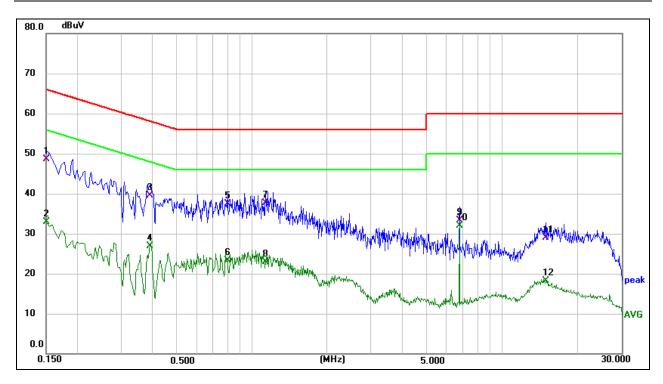
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TEST RESULTS



Phase: L1 Mode: M01

No.	Frequency	Reading	Factor	Measure-	Limit	Margin	Detector	Comment
	(MHz)	Level(dBuV)	(dB)	ment(dBuV)	(dBuV)	(dB)		
1 *	0.1544	39.45	10.15	49.60	65.76	-16.16	QP	
2	0.1544	23.53	10.15	33.68	55.76	-22.08	AVG	
3	0.3930	31.41	9.79	41.20	58.00	-16.80	QP	
4	0.3930	20.87	9.79	30.66	48.00	-17.34	AVG	
5	0.6945	26.75	9.85	36.60	56.00	-19.40	QP	
6	0.6945	11.33	9.85	21.18	46.00	-24.82	AVG	
7	1.1445	24.58	9.82	34.40	56.00	-21.60	QP	
8	1.1445	14.08	9.82	23.90	46.00	-22.10	AVG	
9	6.7470	20.43	9.77	30.20	60.00	-29.80	QP	
10	6.7470	15.46	9.77	25.23	50.00	-24.77	AVG	
11	14.4733	15.81	9.99	25.80	60.00	-34.20	QP	
12	14.4733	6.37	9.99	16.36	50.00	-33.64	AVG	



Phase: N	Mode: M01

No.	Frequency	Reading	Factor	Measure-	Limit	Margin	Detector	Comment
	(MHz)	Level(dBuV)	(dB)	ment(dBuV)	(dBuV)	(dB)		
1 *	0.1500	38.39	10.21	48.60	66.00	-17.40	QP	
2	0.1500	22.74	10.21	32.95	56.00	-23.05	AVG	
3	0.3885	29.80	9.80	39.60	58.10	-18.50	QP	
4	0.3885	17.13	9.80	26.93	48.10	-21.17	AVG	
5	0.7980	27.55	9.95	37.50	56.00	-18.50	QP	
6	0.7980	13.31	9.95	23.26	46.00	-22.74	AVG	
7	1.1310	27.65	9.95	37.60	56.00	-18.40	QP	
8	1.1310	13.00	9.95	22.95	46.00	-23.05	AVG	
9	6.7470	23.16	10.14	33.30	60.00	-26.70	QP	
10	6.7470	21.88	10.14	32.02	50.00	-17.98	AVG	
11	14.9504	17.24	11.66	28.90	60.00	-31.10	QP	
12	14.9504	6.48	11.66	18.14	50.00	-31.86	AVG	

Remark: Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
Margin = Result - Limit

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7.2. RADIATED EMISSIONS BELOW 1GHZ

LIMITS

Below 1 GHz

CFR 47 FCC Part 15 Subpart B				
Frequency	Class A	Class B		
(MHz)	Field strength (dBuV/m) (at 3 m)	Field strength (dBuV/m) (at 3 m)		
30 - 88	49.5	40		
88 - 216	53.9	43.5		
216 - 960	56.9	46		
Above 960	60	54		

Test Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m), 3m Emission level = 10 m Emission level + 20log(10 m/3 m);

TEST PROCEDURE

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak and QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.4-2014.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp was used

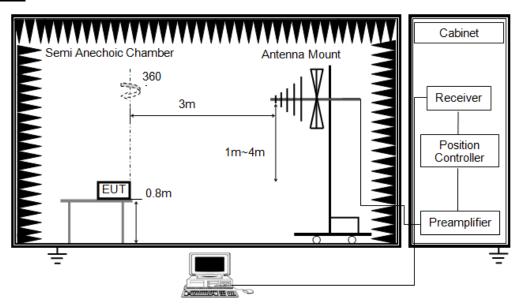
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for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
- 7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 8. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

TEST SETUP



TEST ENVIRONMENT

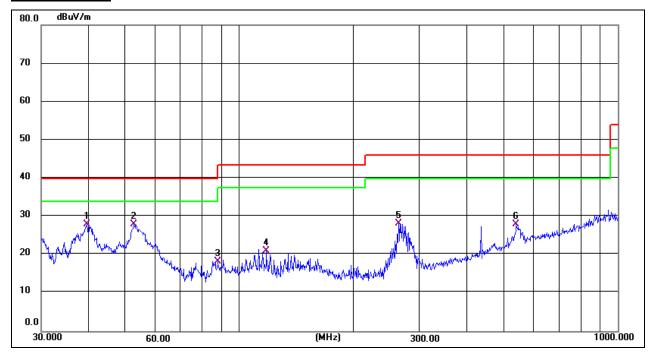
Temperature	23.3℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST MODE

Pre-test Mode:	M01
Final Test Mode:	M01

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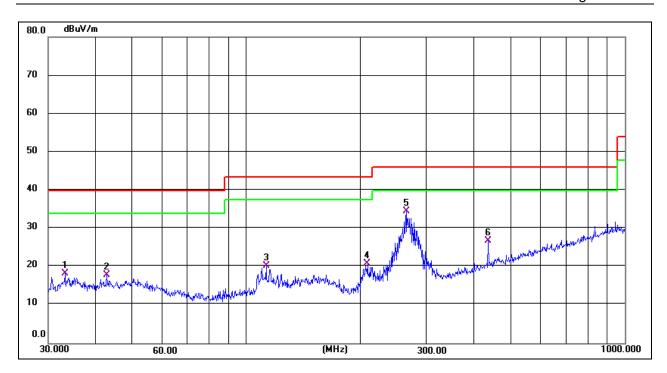
TEST RESULTS



Antenna: Vertical Mode: M01

No.	Frequency	Reading	Correct	Measure-	Limit	Margin	Detector
	(MHz)	Level(dBuV)	Factor(dB/m)	ment(dBuV/m)	(dBuV/m)	(dB)	
1 *	39.5757	41.18	-13.11	28.07	40.00	-11.93	QP
2	52.7600	40.60	-12.55	28.05	40.00	-11.95	QP
3	87.7248	34.40	-16.18	18.22	40.00	-21.78	QP
4	118.1862	34.61	-13.52	21.09	43.50	-22.41	QP
5	263.8190	41.93	-13.69	28.24	46.00	-17.76	QP
6	539.4775	34.29	-6.31	27.98	46.00	-18.02	QP

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Antenna: Horizontal	Mode: M01

No.	Frequency	Reading	Correct	Measure-	Limit	Margin	Detector
	(MHz)	Level(dBuV)	Factor(dB/m)	ment(dBuV/m)	(dBuV/m)	(dB)	
1	33.2112	32.01	-13.60	18.41	40.00	-21.59	QP
2	42.8998	30.69	-12.78	17.91	40.00	-22.09	QP
3	112.9196	34.32	-14.00	20.32	43.50	-23.18	QP
4	209.3129	36.13	-15.24	20.89	43.50	-22.61	QP
5 *	264.7457	48.29	-13.65	34.64	46.00	-11.36	QP
6	435.5898	35.70	-8.95	26.75	46.00	-19.25	QP

Remark: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)

2. Margin = Result - Limit

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7.3. RADIATED EMISSIONS ABOVE 1GHZ

LIMITS

Above 1 GHz

CFR 47 FCC Part 15 Subpart B							
Fraguenay	Class A		Class B				
Frequency (MHz)	(dBuV/m) (at 3 m)	(dBuV/m) (at 3 m)				
(1711-12)	Peak	Average	Peak	Average			
Above 1000	80	60	74	54			

Test Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m), 3m Emission level = 10 m Emission level + 20log(10 m/3 m);

TEST PROCEDURE

Above 1 GHz

The setting of the spectrum analyser

RBW	1 MHz
VBW	3 MHz
Sweep	Auto
ΠΙΔΙΔΟΙΟΓ	Peak: Peak AVG: RMS
Trace	Max hold

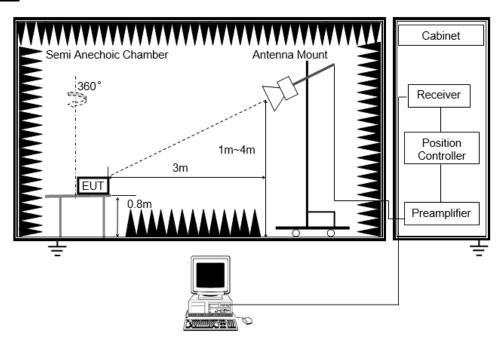
- 1. The testing follows the guidelines in ANSI C63.4-2014.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.

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- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
- 7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 8. For measurement above 1 GHz, the peak emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the peak limit specified in Section 15.109. If peak result complies with average limit, average result is deemed to comply with average limit.
- 9. The average emission measurement will be measured by the RMS detector and must comply with the average limit specified in Section 15.109.

TEST SETUP



TEST ENVIRONMENT

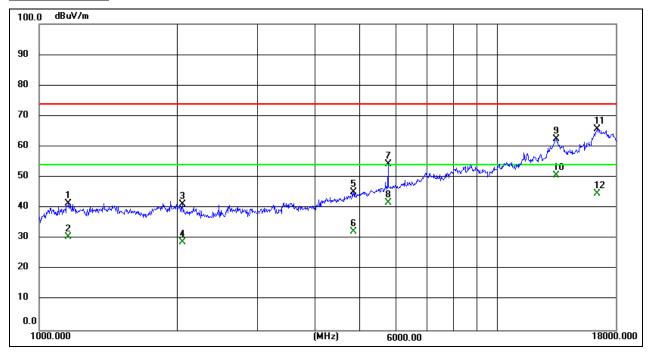
Temperature	24.3℃	Relative Humidity	53.2%
Atmosphere Pressure	kPa		

TEST MODE

Pre-test Mode:	M01
Final Test Mode:	M01

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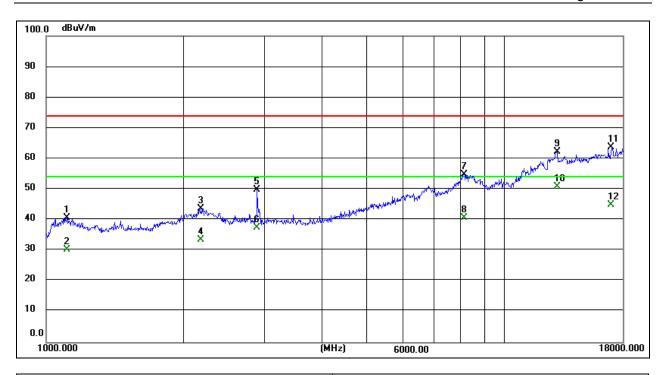
TEST RESULTS



Antenna: Vertical Mode: M01

No.	Frequency	Reading	Correct	Measure-	Limit	Margin	Detector
	(MHz)	Level(dBuV)	Factor(dB/m)	ment(dBuV/m)	(dBuV/m)	(dB)	
1	1160.168	57.11	-15.62	41.49	74.00	-32.51	peak
2	1160.168	46.12	-15.62	30.50	54.00	-23.50	AVG
3	2057.982	52.54	-11.27	41.27	74.00	-32.73	peak
4	2057.982	40.17	-11.27	28.90	54.00	-25.10	AVG
5	4841.748	46.54	-1.43	45.11	74.00	-28.89	peak
6	4841.748	33.83	-1.43	32.40	54.00	-21.60	AVG
7	5748.644	53.03	1.29	54.32	74.00	-19.68	peak
8	5748.644	40.31	1.29	41.60	54.00	-12.40	AVG
9	13388.521	50.22	12.19	62.41	74.00	-11.59	peak
10 *	13388.521	38.51	12.19	50.70	54.00	-3.30	AVG
11	16428.802	50.53	15.17	65.70	74.00	-8.30	peak
12	16428.802	29.53	15.17	44.70	54.00	-9.30	AVG

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Antenna: Horizontal Mode: M01

No.	Frequency	Reading	Correct	Measure-	Limit	Margin	Detector
	(MHz)	Level(dBuV)	Factor(dB/m)	ment(dBuV/m)	(dBuV/m)	(dB)	
1	1111.907	56.50	-15.76	40.74	74.00	-33.26	peak
2	1111.907	45.96	-15.76	30.20	54.00	-23.80	AVG
3	2178.564	54.69	-10.91	43.78	74.00	-30.22	peak
4	2178.564	44.41	-10.91	33.50	54.00	-20.50	AVG
5	2881.912	58.08	-8.26	49.82	74.00	-24.18	peak
6	2881.912	45.86	-8.26	37.60	54.00	-16.40	AVG
7	8136.716	49.71	5.15	54.86	74.00	-19.14	peak
8	8136.716	35.65	5.15	40.80	54.00	-13.20	AVG
9	12958.300	49.95	12.20	62.15	74.00	-11.85	peak
10 *	12958.300	38.60	12.20	50.80	54.00	-3.20	AVG
11	17038.145	46.72	16.97	63.69	74.00	-10.31	peak
12	17038.145	27.93	16.97	44.90	54.00	-9.10	AVG

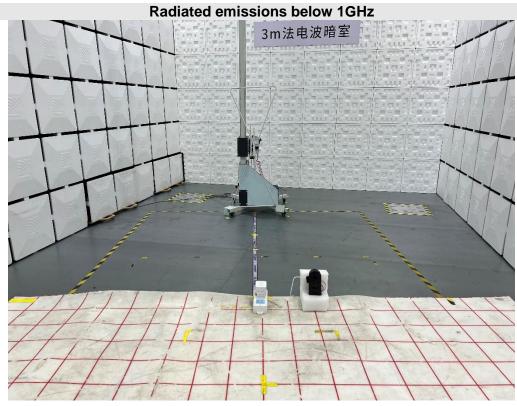
Remark: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)

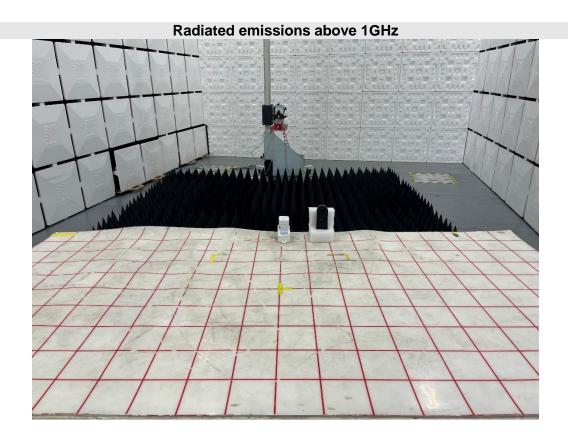
2. Margin = Result - Limit

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APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION







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APPENDIX: PHOTOGRAPHS OF THE EUT













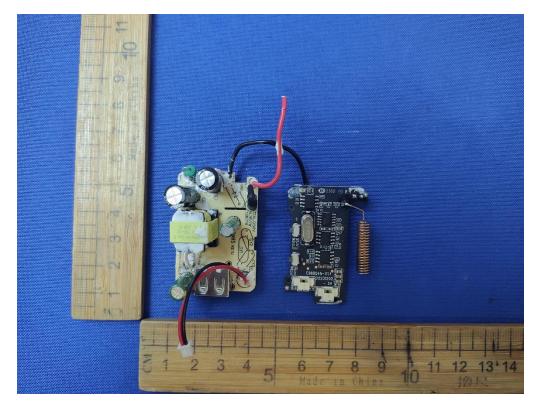


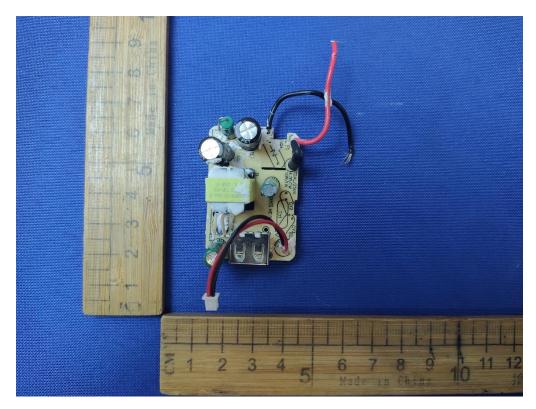


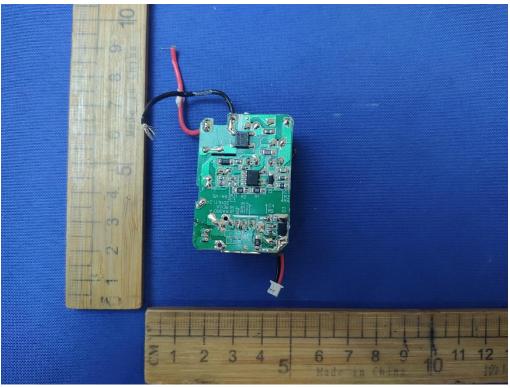




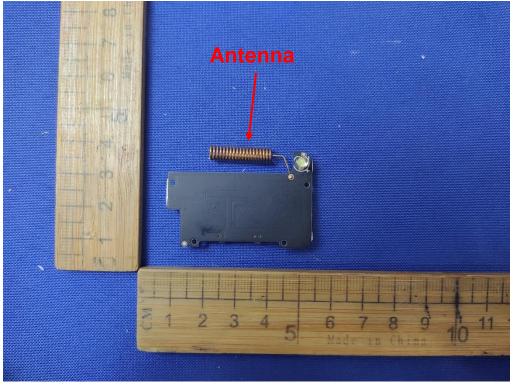


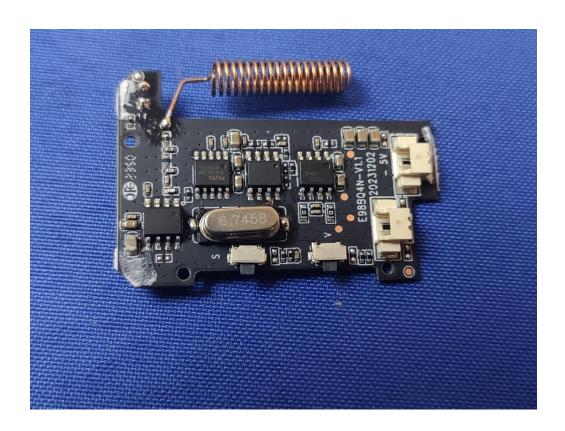












END OF REPORT