



FCC Part 15, Subpart B, Class B

Zhenjiang Electronics (Shenzhen) Co., LTD.

Cord Extension set(with Power Adapter)

Test Model: G01MU

Additional Model No.: G01MU2

Prepared for : Zhenjiang Electronics (Shenzhen) Co., LTD.
Address : 401, Building 2, No. 39, Hengling North Road, Nianfeng Community, Pingdi Street, Longgang District, Shenzhen China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : May 05, 2023
Number of tested samples : 2
Serial number : Prototype
Sample No. : A050523017-1, A050523017-2
Date of Test : May 05, 2023 ~ May 15, 2023
Date of Report : May 15, 2023



**FCC SDoC TEST REPORT****FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014**Report Reference No. : **LCSA050523017E**

Date Of Issue..... : May 15, 2023

Testing Laboratory Name : **Shenzhen LCS Compliance Testing Laboratory Ltd.**Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park
Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,
518000, ChinaTesting Location/ Procedure... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □Applicant's Name..... : **Zhenjiang Electronics (Shenzhen) Co., LTD.**Address : 401, Building 2, No. 39, Hengling North Road, Nianfeng
Community, Pingdi Street, Longgang District, Shenzhen
China**Test Specification**

Standard : FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014

Test Report Form No. : LCSEMC-1.0

TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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Test Item Description. : **Cord Extension set(with Power Adapter)**Trade Mark :  **COVOZON ZHENJIANG**

Test Model : G01MU

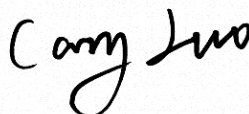
Ratings : AC Power rating: AC 125V, 60Hz, 15A, 1875W Max.
DC Power rating: DC 5V, 3.1A, 15.5W MaxResult : **Positive**

Compiled by:



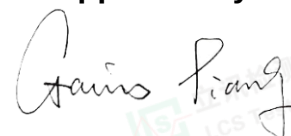
Diamond Lu/ Administrator

Supervised by:



Cary Luo / Technique principal

Approved by:



Gavin Liang/ Manager



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**FCC SDOC-- TEST REPORT**

Test Report No. :	LCSA050523017E	<u>May 15, 2023</u> Date of issue
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Test Model	: G01MU
EUT.....	: Cord Extension set(with Power Adapter)
Applicant.....	: Zhenjiang Electronics (Shenzhen) Co., LTD.
Address.....	: 401, Building 2, No. 39, Hengling North Road, Nianfeng Community, Pingdi Street, Longgang District, Shenzhen China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Zhenjiang Electronics (Shenzhen) Co., LTD.
Address.....	: 401, Building 2, No. 39, Hengling North Road, Nianfeng Community, Pingdi Street, Longgang District, Shenzhen China
Telephone.....	: /
Fax.....	: /
Factory.....	: Zhenjiang Electronics (Shenzhen) Co., LTD.
Address.....	: 401, Building 2, No. 39, Hengling North Road, Nianfeng Community, Pingdi Street, Longgang District, Shenzhen China
Telephone.....	: /
Fax.....	: /

Test Result according to the standards on page 6: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

Report Version	Issue Date	Revision Content	Revised By
000	May 15, 2023	Initial Issue	--





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1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS
N/A is an abbreviation for Not Applicable.			

Test mode:

Mode 1	Normal operation	Record
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2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Cord Extension set(with Power Adapter)

Trade Mark :  **COVOZON ZHENJIANG**

Test Model : G01MU

Additional Model No. : G01MU2

Model Declaration : PCB board, structure and internal of these model(s) are the same, So no additional models were tested

Power Supply : AC Power rating: AC 125V, 60Hz, 15A, 1875W Max.
DC Power rating: DC 5V, 3.1A, 15.5W Max

Highest internal frequency (Fx) : $F_x \leq 108 \text{ MHz}$

Highest internal frequency (Fx)	Highest measured frequency
$F_x \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} < F_x \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} < F_x \leq 1 \text{ GHz}$	5 GHz
$F_x > 1 \text{ GHz}$	5th harmonic of the highest frequency or 40 GHz, whichever is lower.





2.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
--	--	--	--	--

2.3 External I/O Cable

I/O Port Description	Quantity	Cable
USB Port	1	N/A
Type-C Port	1	N/A

2.4. Description of Test Facility

Site Description

EMC Lab.

: NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.
Test Firm Registration Number: 254912.



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2.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.6. Measurement Uncertainty

Test	Parameters	Expanded Uncertainty (U _{lab})	Expanded Uncertainty (U _{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.





3. TEST RESULTS

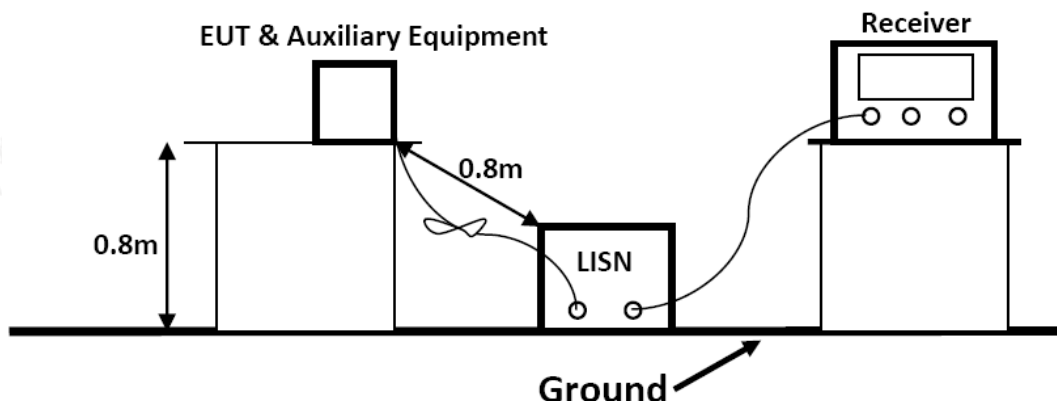
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	/	N/A	N/A
2	EMI Test Receiver	R&S	ESR3	102312	2023-02-15	2024-02-14
3	Artificial Mains	R&S	ENV216	101288	2022-06-16	2023-06-15
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2022-08-19	2023-08-18
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2022-10-29	2023-10-28

3.1.2. Block Diagram of Test Setup



3.1.3. Test Standard

Power Line Conducted Emission Limits (Class B)

Frequency (MHz)			Limit (dBμV)	
			Quasi-peak Level	Average Level
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~	5.00	56.0	46.0
5.00	~	30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.

NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.1.4. EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.



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3.1.5. Operating Condition of EUT

3.1.5.1. Setup the EUT as shown on Section 3.1.2

3.1.5.2. Turn on the power of all equipments.

3.1.5.3. Let the EUT work in measuring Mode 1 and measure it.

3.1.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of the test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is investigated

3.1.7. Test Results

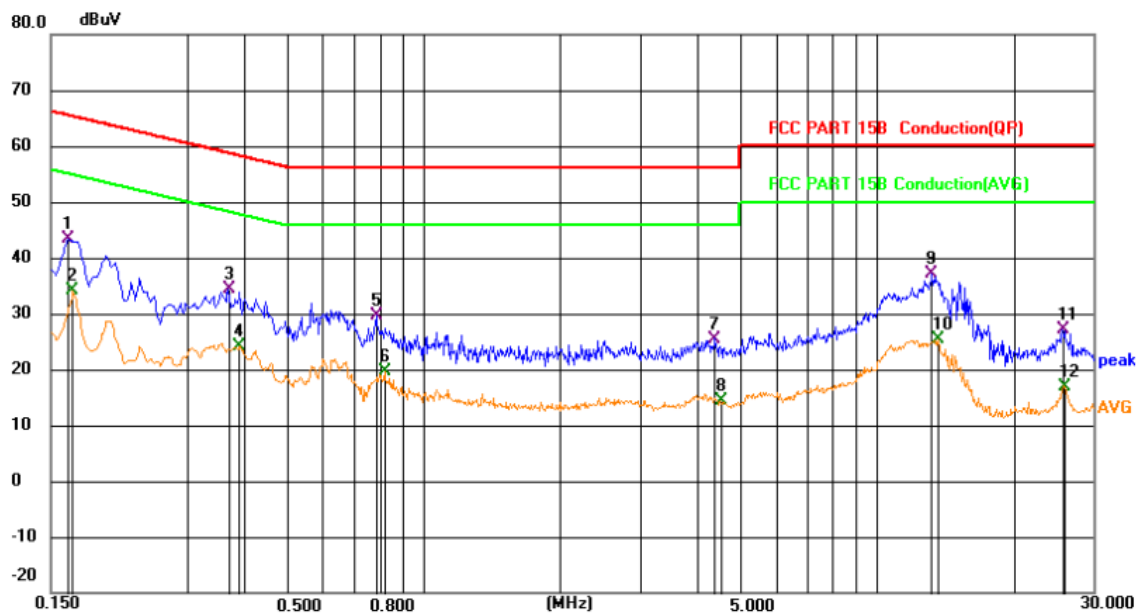
PASS.

The test result please refer to the next page.





Test Model	G01MU	Test Mode	Mode 1
Environmental Conditions	24.5°C, 53.7% RH	Test Engineer	Nick Peng
Pol	Line	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1635	23.81	19.63	43.44	65.28	-21.84	QP	
2	*	0.1680	14.39	19.63	34.02	55.06	-21.04	AVG	
3		0.3706	14.85	19.63	34.48	58.49	-24.01	QP	
4		0.3930	4.46	19.63	24.09	48.00	-23.91	AVG	
5		0.7845	10.07	19.64	29.71	56.00	-26.29	QP	
6		0.8205	-0.10	19.64	19.54	46.00	-26.46	AVG	
7		4.3981	5.80	19.70	25.50	56.00	-30.50	QP	
8		4.5241	-5.29	19.70	14.41	46.00	-31.59	AVG	
9		13.2316	17.27	19.84	37.11	60.00	-22.89	QP	
10		13.6231	5.46	19.84	25.30	50.00	-24.70	AVG	
11		25.6876	7.04	20.02	27.06	60.00	-32.94	QP	
12		25.9711	-3.04	20.02	16.98	50.00	-33.02	AVG	



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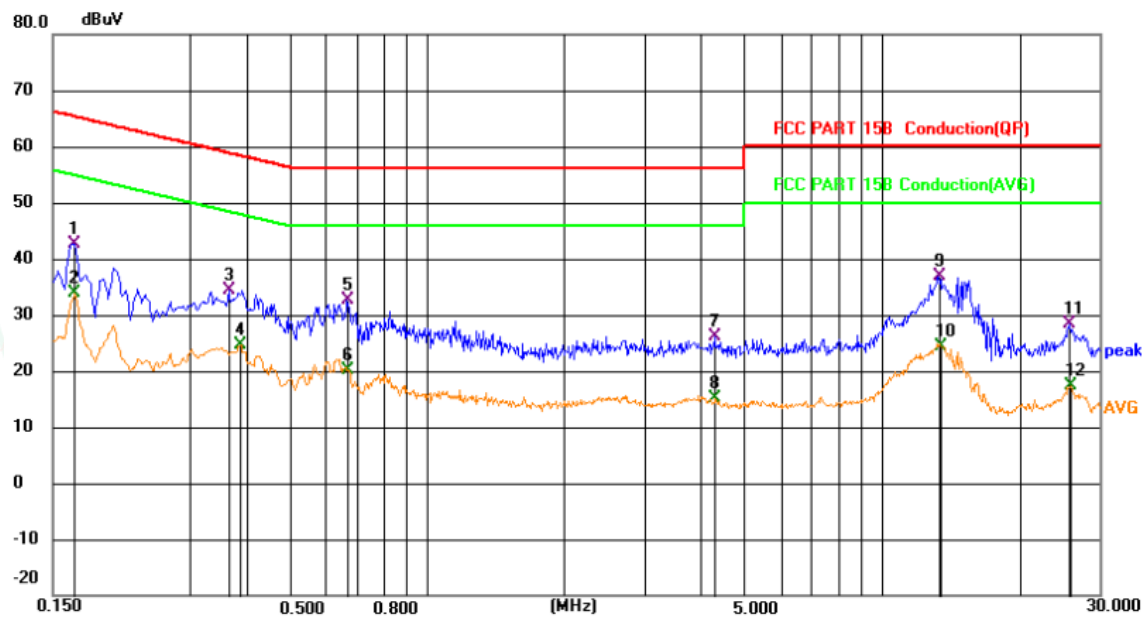
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Test Model	G01MU	Test Mode	Mode 1
Environmental Conditions	24.5°C, 53.7% RH	Test Engineer	Nick Peng
Pol	Neutral	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1680	23.11	19.63	42.74	65.06	-22.32	QP	
2	*	0.1680	14.36	19.63	33.99	55.06	-21.07	AVG	
3		0.3661	14.64	19.63	34.27	58.59	-24.32	QP	
4		0.3886	5.07	19.63	24.70	48.09	-23.39	AVG	
5		0.6675	13.06	19.65	32.71	56.00	-23.29	QP	
6		0.6683	0.47	19.65	20.12	46.00	-25.88	AVG	
7		4.2856	6.34	19.80	26.14	56.00	-29.86	QP	
8		4.2991	-4.76	19.80	15.04	46.00	-30.96	AVG	
9		13.3171	17.04	19.84	36.88	60.00	-23.12	QP	
10		13.4116	4.56	19.84	24.40	50.00	-25.60	AVG	
11		25.8271	8.25	20.02	28.27	60.00	-31.73	QP	
12		25.9801	-2.68	20.02	17.34	50.00	-32.66	AVG	

Note: Pre-Scan all mode, Thus record worse case mode result in this report.

Margin= Reading level + Correct factor – Limit

Correct Factor= Lisen Factor+Cable Factor



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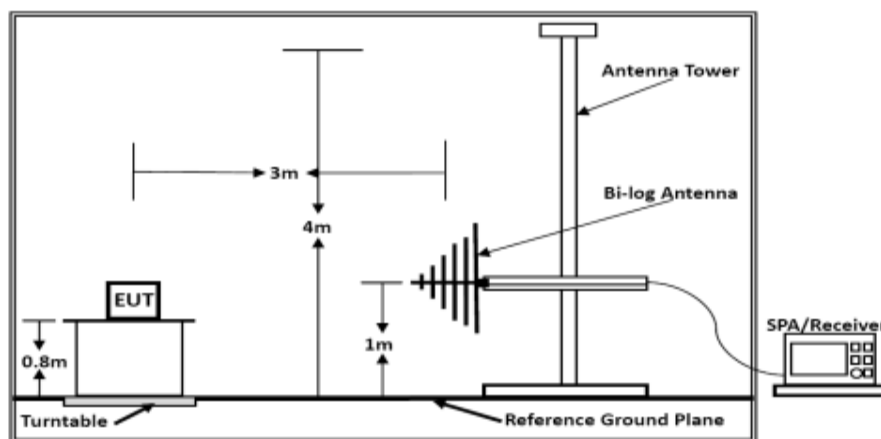
3.2. Radiated emission Measurement

3.2.1. Test Equipment

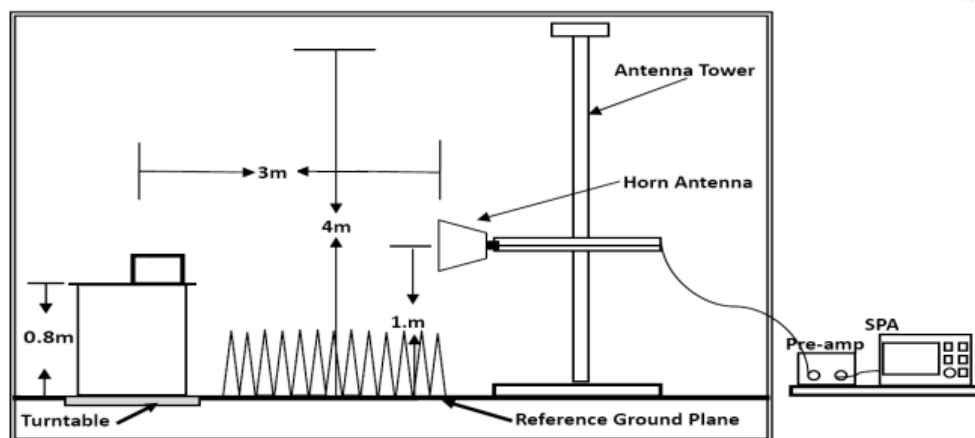
The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	/	N/A	N/A
2	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2022-06-16	2023-06-15
3	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
4	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
5	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
6	EMI Test Receiver	R&S	ESPI	101940	2022-08-18	2023-08-17
7	Broadband Preamplifier	/	BP-01M18G	P190501	2022-06-16	2023-06-15
8	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2022-10-29	2023-10-28
9	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-10-29	2023-10-28

3.2.2. Block Diagram of Test Setup



Below 1GHz



Above 1GHz



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3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54
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.			
Limits for Radiated Emission Above 1GHz			
Frequency (MHz)	Distance (Meters)	Peak Limit ($\text{dB}\mu\text{V/m}$)	Average Limit ($\text{dB}\mu\text{V/m}$)
Above 1000	3	74	54
***Note: The lower limit applies at the transition frequency.			

3.2.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.2.5. Operating Condition of EUT

3.2.5.1. Setup the EUT as shown in Section 3.2.2.

3.2.5.2. Let the EUT work in test Mode 1 and measure it.

3.2.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

3.2.7. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver



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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

The frequency range from 30MHz to 1000MHz and above 1000MHz is checked.

3.2.8. Radiated Emission Noise Measurement Result

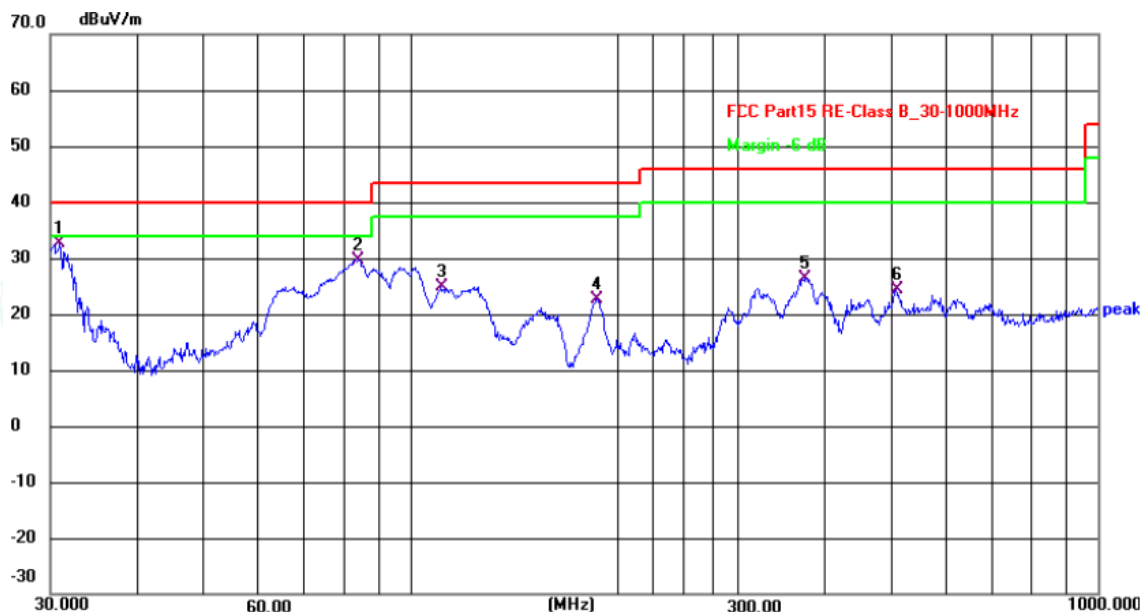
PASS.

The scanning waveforms please refer to the next page.





Test Model	G01MU	Test Mode	Mode 1
Environmental Conditions	23.8°C, 52.3% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Nick Peng	Test Voltage	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.9618	50.95	-18.32	32.63	40.00	-7.37	QP
2	84.1100	49.14	-19.47	29.67	40.00	-10.33	QP
3	110.9570	43.98	-19.15	24.83	43.50	-18.67	QP
4	186.4408	41.09	-18.46	22.63	43.50	-20.87	QP
5	374.6225	41.06	-14.74	26.32	46.00	-19.68	QP
6	508.2582	37.29	-13.02	24.27	46.00	-21.73	QP



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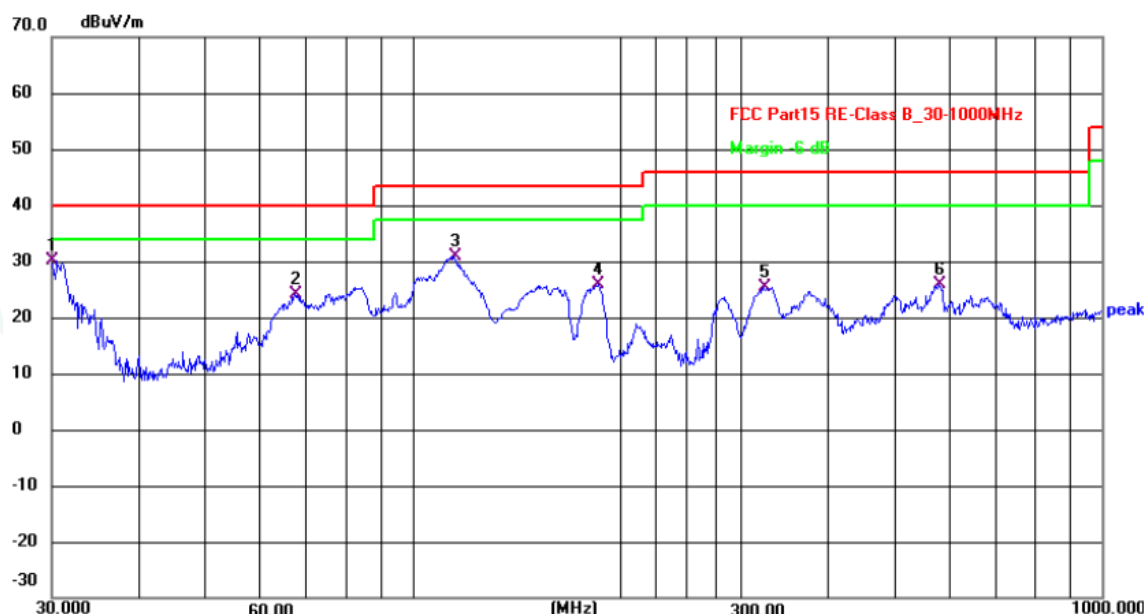
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Test Model	G01MU	Test Mode	Mode 1
Environmental Conditions	23.8°C, 52.3% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Nick Peng	Test Voltage	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.0000	48.52	-18.45	30.07	40.00	-9.93	QP
2	67.4382	43.55	-19.32	24.23	40.00	-15.77	QP
3	114.9168	50.43	-19.49	30.94	43.50	-12.56	QP
4	185.7882	43.75	-17.91	25.84	43.50	-17.66	QP
5	323.3203	39.66	-14.28	25.38	46.00	-20.62	QP
6	580.7026	36.59	-10.77	25.82	46.00	-20.18	QP

Note: Pre-Scan all mode, Thus record worse case mode result in this report.

Margin= Reading level + Correct factor – Limit

Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor



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4. TEST SETUP PHOTOGRAPHS

Please refer to separated files for Test Setup Photos of the EUT.

5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Please refer to separated files for External Photos of the EUT.

6. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF TEST REPORT-----

