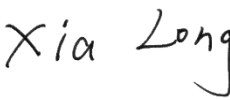


TEST REPORT

Applicant: Ningbo Sunvot Technology Co., Ltd
Address: Building 3, NO 55 Longtan Shan Road, Beilun Daqi, Ningbo, Zhejiang
Equipment Type: LC600 LTE CPE
Model Name: LC600 (refer section 2.4)
Brand Name: Sunvot
FCC ID: 2AZGN-LC600-202301
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Feb. 14, 2023
Test Date: Feb. 14, 2023 - Feb. 23, 2023
Date of Issue: Mar. 13, 2023

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Zhang Guoxi**Checked by:** Xia Long**Approved by:** Liao Jianming
(Technical Director)
_____
_____

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Mar. 13, 2023</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Ningbo Sunvot Technology Co., Ltd
Address	Building 3, NO 55 Longtan Shan Road, Beilun Daqi, Ningbo, Zhejiang

2.2 Manufacturer Information

Manufacturer	N/A
Address	N/A

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	LC600 LTE CPE
Model Name Under Test	LC600
Series Model Name	LC600C, LC600T, LC600L, LC600A, LC600B
Description of Model name differentiation	Only with different model name. (this information provided by the customer)
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Ancillary Equipment 1	AC Adapter	
	Brand Name	N/A
	Model No.	KFL-T42
	Serial No.	N/A
	Rated Input	100-240V~ 50-60Hz, 1.0A
	Rated Output	48V= 500mA

2.6 Technical Information

Network and Wireless connectivity	2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80), U-NII-1/2A/2C/3
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The requirement for the following technical information of the EUT was tested in this report:

The Highest Speed of Processor	N/A
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3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart B	Unintentional Radiators
2	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Result
1	Radiated Emission	15.109	Pass	Annex A .1
2	Conducted Emission, AC Ports	15.107	Pass	Annex A .2

3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT 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.

Measurement	Value
Conducted emissions (9 kHz-30 MHz)	3.22 dB
Radiated emissions (30 MHz-1 GHz)-10m	4.80 dB
Radiated emissions (30 MHz-1 GHz)-3m	4.76 dB
Radiated emissions (1 GHz-18 GHz)-3m	4.88 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments, Test Date and Test Engineer

Test items	Voltage	Temperature	Relative Humidity	Ambient Pressure	Test Date	Test Engineer
Radiated Emission	AC 120V/60Hz	23.2℃	51%	101kPa	Feb. 21, 2023	Tian Shuo
Conducted Emission	AC 230V/50Hz AC 120V/60Hz	24.3℃	52%		Feb. 23, 2023	Ye Guangqi

4.2 Test Equipment List

Radiated Emission Test For Frequency Below 1 GHz (3m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2022.09.09	2023.09.08	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2022.12.07	2023.12.06	☒
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	☒
Anechoic Chamber	ChangNing	9m*6m*6m	142	2021.08.19	2024.08.18	☒
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V22.930		☒

Radiated Emission Test For Frequency Above 1 GHz (3m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY55330120	2022.09.07	2023.09.08	☒
Spectrum Analyzer	ROHDE & SCHWARZ	FSV40	101544	2022.01.04	2023.12.27	☒
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2022.09.07	2023.09.08	☒
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2022.09.07	2023.09.08	☒
Amplifier (18-40GHz)	COM-MV	KA_LNA18-40G-01	18050001	2022.09.07	2023.09.08	☒
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Test Antenna-Horn	A-INFOMW	LB-180400KF	J211060273	2021.07.02	2024.07.01	☒
Anechoic Chamber	ChangNing	9m*6m*6m	142	2022.02.19	2024.08.18	☒
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V22.930		☒

Conducted disturbance Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2022.09.09	2023.09.08	☒
LISN	SCHWARZBECK	NSLK 8127	8127-687	2022.06.01	2023.05.31	☒
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18	☒
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V22.930		☒

4.3 Test Enclosure list

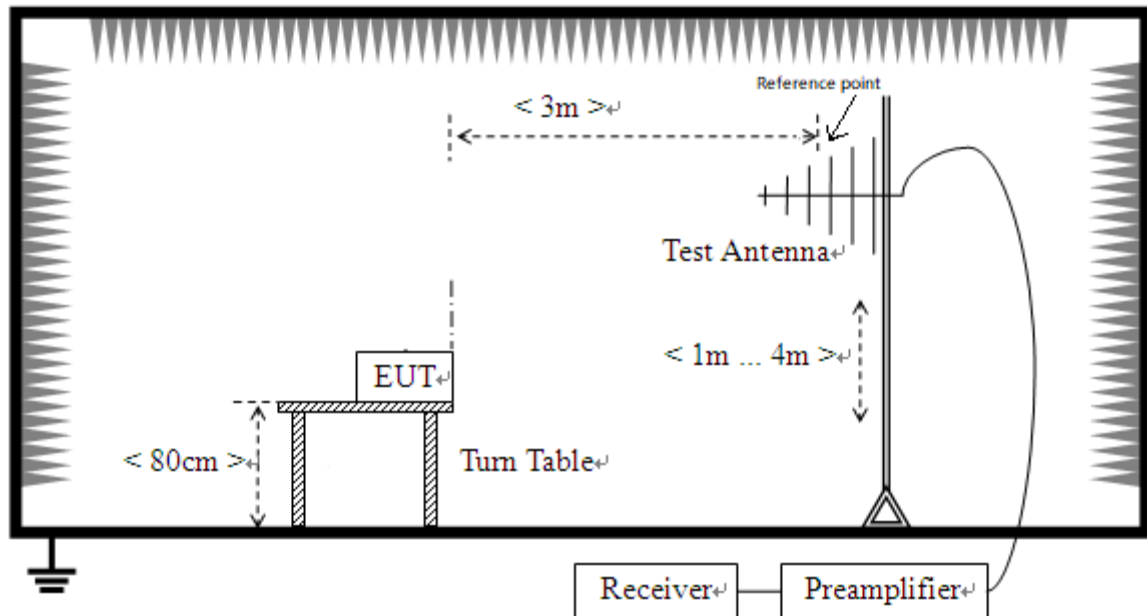
Description	Manufacturer	Model	Serial No.	Length	Description	Use
RJ45 Cable	N/A	N/A	N/A	N/A	N/A	☒
LCD600-ODU	N/A	N/A	N/A	N/A	N/A	☒
Fixed telephone	N/A	N/A	N/A	N/A	N/A	☒
RJ11 Cable	HP	N/A	N/A	N/A	N/A	☒
laptop	Lenovo	N/A	N/A	N/A	N/A	☒

4.4 Test Configurations

Test Configurations (TC) No.	Description
Traffic Test Mode	
TC01	<u>The Normal Work Test Mode</u> EUT+ Adapter + RJ45 Cable + laptop + RJ11 Cable + Fixed telephone + LCD600-ODU

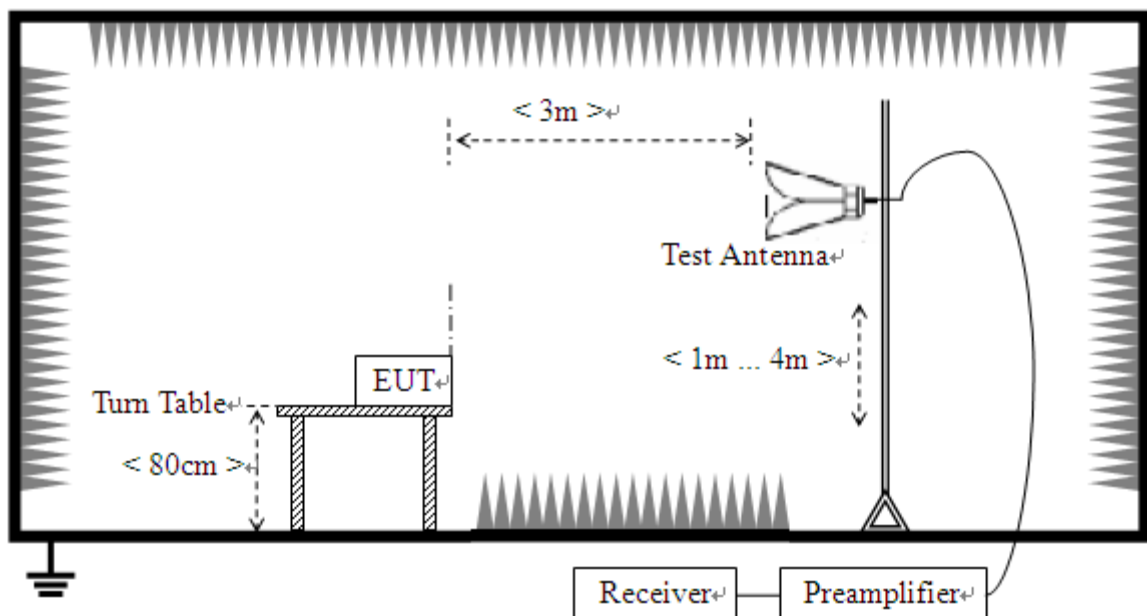
4.5 Test Setups

Test Setup 1

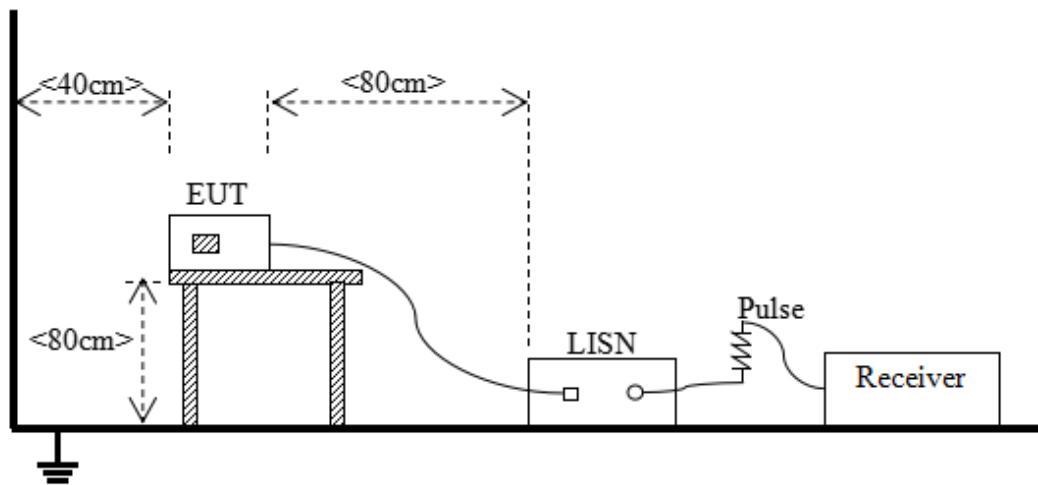


(For Radiated Emission Test (30 MHz-1 GHz))

Test Setup 2



(For Radiated Emission Test (above 1 GHz))

Test Setup 3

(For Conducted Emission, AC Ports Test)

4.6 Test Conditions

Test Case	Test Conditions	
Radiated Emission	Test Setup	Test Setup 1&2
	Test Configuration	TC01 ^{Note}
Conducted Emission, AC Ports	Test Setup	Test Setup 3
	Test Configuration	TC01 ^{Note}
Note: Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report. The Normal Work Test Mode is the worst mode in this report.		

5 TEST ITEMS

5.1 Emission Tests

5.1.1 Radiated Emission

5.1.1.1 Limit

Frequency range (MHz)	Class B (at 3 m)		Class B (at 10 m)	Class A (at 10 m)	
	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)
30 - 88	100	40	30	90	39
88 - 216	150	43.5	33.5	150	43.5
216 - 960	200	46	36	210	46.4
Above 960	500	54	44	300	49.5

NOTE:

- 1) Field Strength (dB $\mu\text{V/m}$) = $20 \cdot \log [\text{Field Strength } (\mu\text{V/m})]$.
- 2) In the emission tables above, the tighter limit applies at the band edges.

5.1.1.2 Test Setup

Refer to 4.5 section (test setup 1 to test setup 2) for radiated emission test, the photo of test setup please refer to ANNEX B.

5.1.1.3 Test Procedure

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

The measurement frequency range is from 30 MHz to the 5th harmonic of the maximum frequency of the EUT internal source. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1 \text{ GHz}$, 100 kHz for $f < 1 \text{ GHz}$

VBW $\geq$ RBW

Sweep = auto

Detector function = peak for $f < 1 \text{ GHz}$, peak & RMS Average for $f \geq 1 \text{ GHz}$

Trace = max hold

5.1.1.4 Test Result

Please refer to ANNEX A.1.

NOTE:

1. Results (dB μ V/m) = Reading (dB μ V/m) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Over limit = Results – Limit.

5.1.2 Conducted Emission

5.1.2.1 Test Limit

Frequency range (MHz)	Class A	
	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 - 0.50	79	66
0.50 - 30	73	60

Frequency range (MHz)	Class B	
	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

5.1.2.2 Test Setup

Refer to 4.5 section test (test setup 3) for conducted emission, the photo of test setup please refer to ANNEX B.

5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

Use the following spectrum analyzer settings:

RBW = 9 kHz

VBW $\geq$ RBW

Sweep = 10ms

Detector function = peak & Average

Trace = max hold

5.1.2.4 Test Result

Please refer to ANNEX A.2.

NOTE:

1. Results (dBμV) = Reading (dBμV) + Factor (dB)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Over limit = Results – Limit.

ANNEX A TEST RESULTS

A.1 Radiated Emission

Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

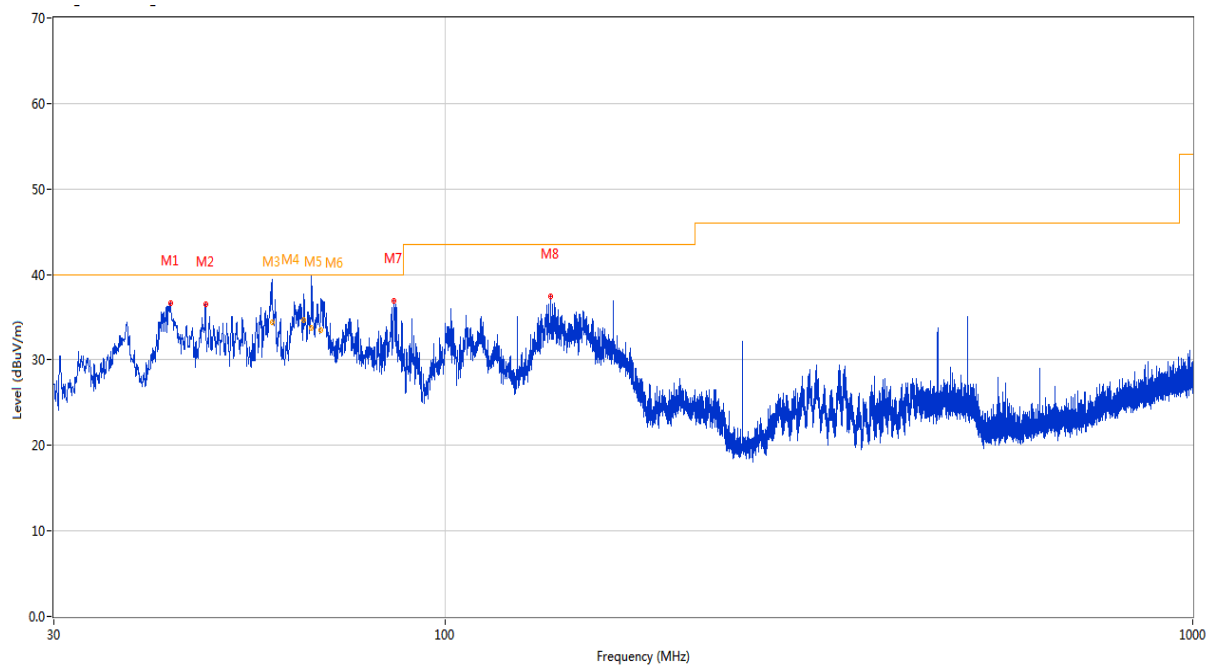
Note 3: The Radiated Emission from 18G-40G is noise only, do not show on the report.

Note 4: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data and Plots

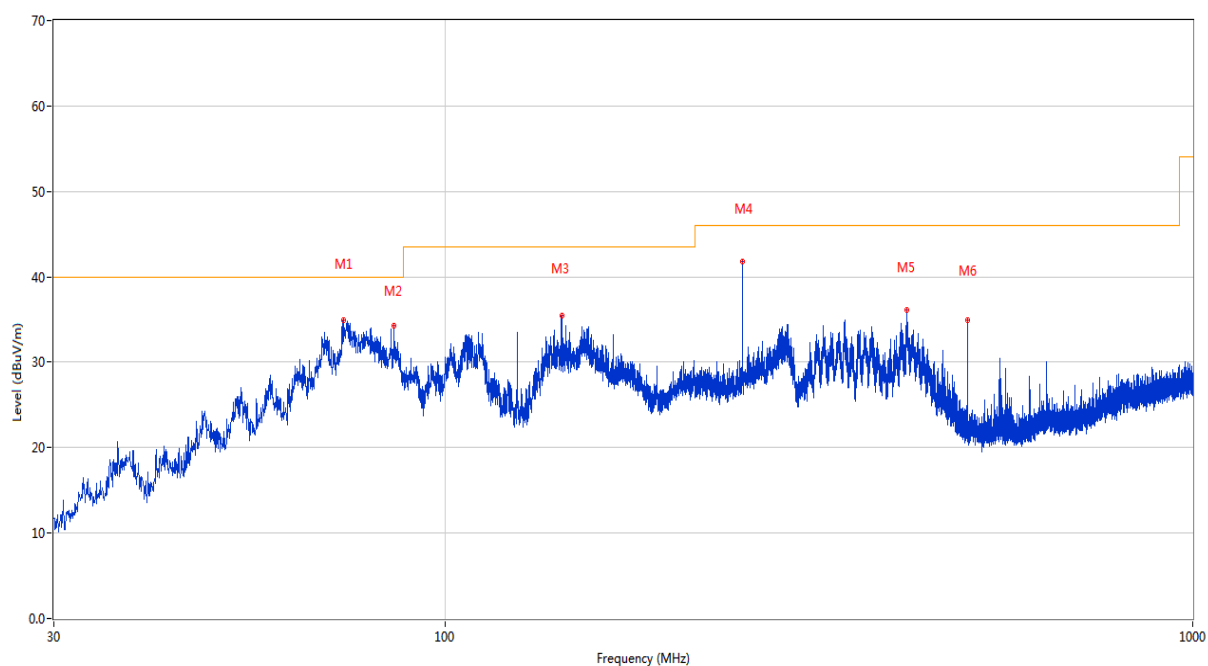
The Normal Work Test Mode

A.1.1 Test Antenna Vertical, 30 MHz – 1 GHz



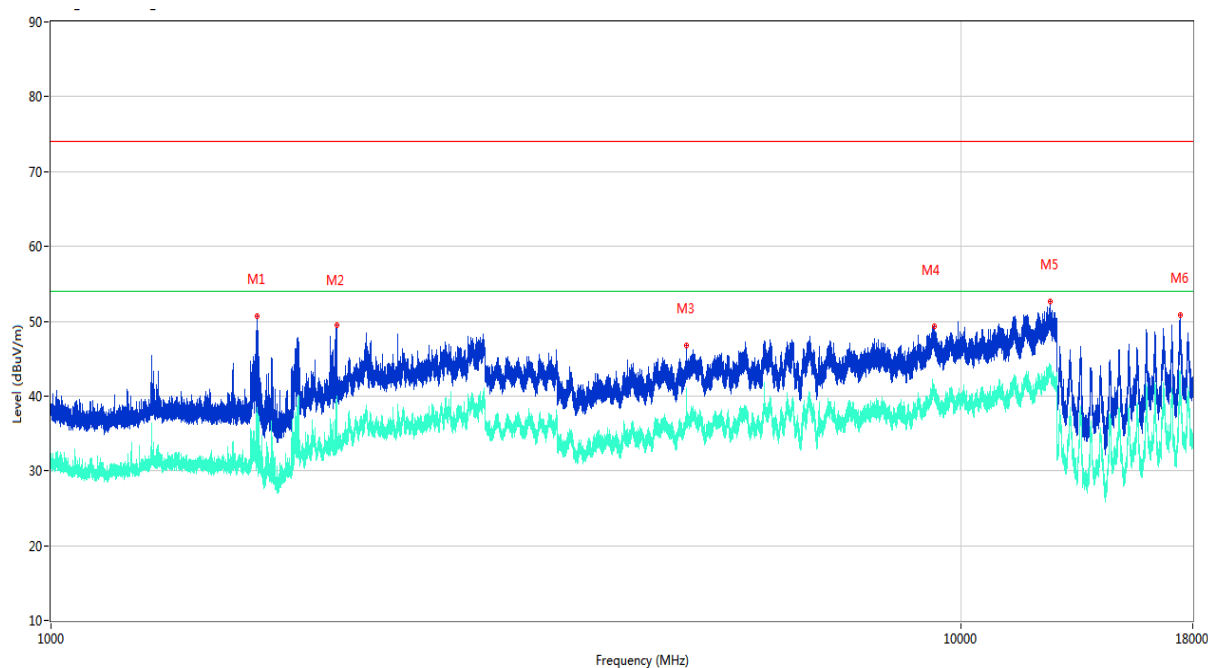
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.998	36.64	-23.38	40.0	3.36	Peak	72.70	100	Vertical	Pass
2	47.848	36.55	-22.67	40.0	3.45	Peak	268.10	100	Vertical	Pass
3	58.795	37.70	-24.05	40.0	2.30	Peak	189.20	108	Vertical	N/A
3*	58.795	34.45	-24.05	40.0	5.55	QP	189.20	108	Vertical	Pass
4	64.781	38.65	-25.02	40.0	1.35	Peak	268.10	100	Vertical	N/A
4*	64.781	34.68	-25.02	40.0	5.32	QP	268.10	100	Vertical	Pass
5	66.214	37.75	-25.23	40.0	2.25	Peak	353.00	102	Vertical	N/A
5*	66.214	33.70	-25.23	40.0	6.30	QP	353.00	102	Vertical	Pass
6	68.261	38.55	-25.97	40.0	1.45	Peak	72.70	134	Vertical	N/A
6*	68.261	33.46	-25.97	40.0	6.54	QP	72.70	134	Vertical	Pass
7	85.484	36.92	-27.36	40.0	3.08	Peak	123.80	100	Vertical	Pass
8	138.543	37.50	-27.72	43.5	6.00	Peak	228.40	100	Vertical	Pass

A.1.2 Test Antenna Horizontal, 30 MHz – 1 GHz



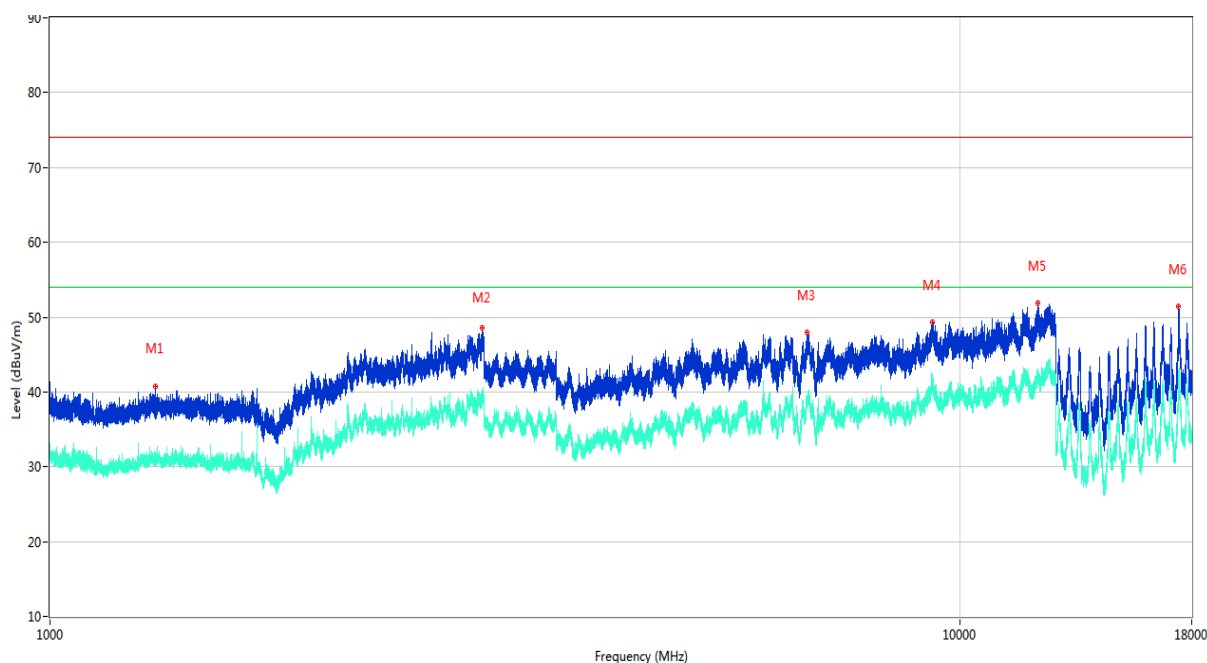
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	73.117	34.95	-28.46	40.0	5.05	Peak	19.80	200	Horizontal	Pass
2	85.484	34.23	-27.36	40.0	5.77	Peak	200.70	200	Horizontal	Pass
3	143.248	35.47	-27.83	43.5	8.03	Peak	242.80	200	Horizontal	Pass
4	249.996	41.78	-22.91	46.0	4.22	Peak	97.40	100	Horizontal	Pass
5	414.314	36.07	-18.37	46.0	9.93	Peak	0.40	100	Horizontal	Pass
6	500.014	34.99	-16.93	46.0	11.01	Peak	280.10	100	Horizontal	Pass

A.1.3 Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1683.700	50.63	-14.64	74.0	23.37	Peak	238.60	100	Vertical	Pass
1**	1683.700	34.46	-14.64	54.0	19.54	AV	238.60	100	Vertical	Pass
2	2060.100	49.46	-12.37	74.0	24.54	Peak	242.90	100	Vertical	Pass
2**	2060.100	33.22	-12.37	54.0	20.78	AV	242.90	100	Vertical	Pass
3	4996.800	46.70	-4.17	74.0	27.30	Peak	357.90	100	Vertical	Pass
3**	4996.800	39.62	-4.17	54.0	14.38	AV	357.90	100	Vertical	Pass
4	9355.487	49.26	20.24	74.0	24.74	Peak	6.40	100	Vertical	Pass
4**	9355.487	40.16	20.24	54.0	13.84	AV	6.40	100	Vertical	Pass
5	12552.200	52.61	21.89	74.0	21.39	Peak	159.20	100	Vertical	Pass
5**	12552.200	43.59	21.89	54.0	10.41	AV	159.20	100	Vertical	Pass
6	17430.901	50.83	25.76	74.0	23.17	Peak	31.70	100	Vertical	Pass
6**	17430.901	41.81	25.76	54.0	12.19	AV	31.70	100	Vertical	Pass

A.1.4 Test Antenna Horizontal, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1307.400	40.81	-15.33	74.0	33.19	Peak	129.50	100	Horizontal	Pass
1**	1307.400	30.25	-15.33	54.0	23.75	AV	129.50	100	Horizontal	Pass
2	2987.900	48.61	-5.19	74.0	25.39	Peak	197.30	100	Horizontal	Pass
2**	2987.900	39.06	-5.19	54.0	14.94	AV	197.30	100	Horizontal	Pass
3	6801.000	47.96	-2.09	74.0	26.04	Peak	2.00	100	Horizontal	Pass
3**	6801.000	39.26	-2.09	54.0	14.74	AV	2.00	100	Horizontal	Pass
4	9337.950	49.31	20.44	74.0	24.69	Peak	0.00	100	Horizontal	Pass
4**	9337.950	40.61	20.44	54.0	13.39	AV	0.00	100	Horizontal	Pass
5	12201.162	51.82	21.31	74.0	22.18	Peak	71.20	100	Horizontal	Pass
5**	12201.162	42.86	21.31	54.0	11.14	AV	71.20	100	Horizontal	Pass
6	17413.050	51.44	25.39	74.0	22.56	Peak	238.70	100	Horizontal	Pass
6**	17413.050	41.82	25.39	54.0	12.18	AV	238.70	100	Horizontal	Pass

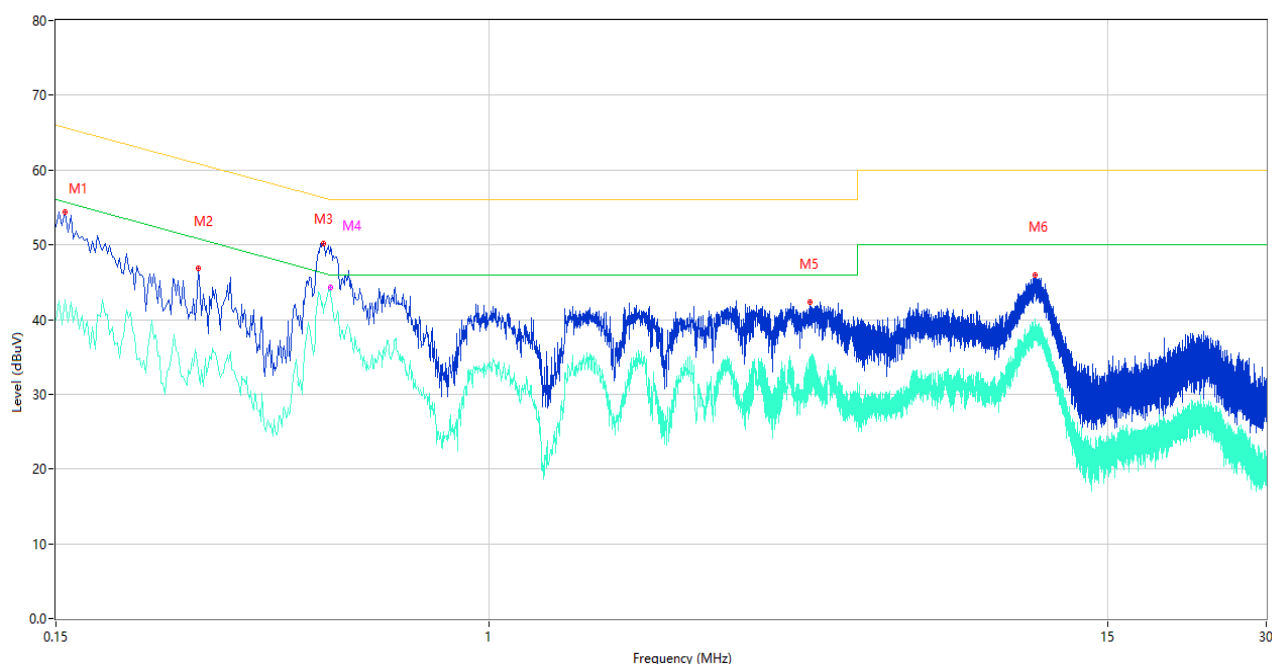
A.2 Conducted Emission

Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Test Data and Plots

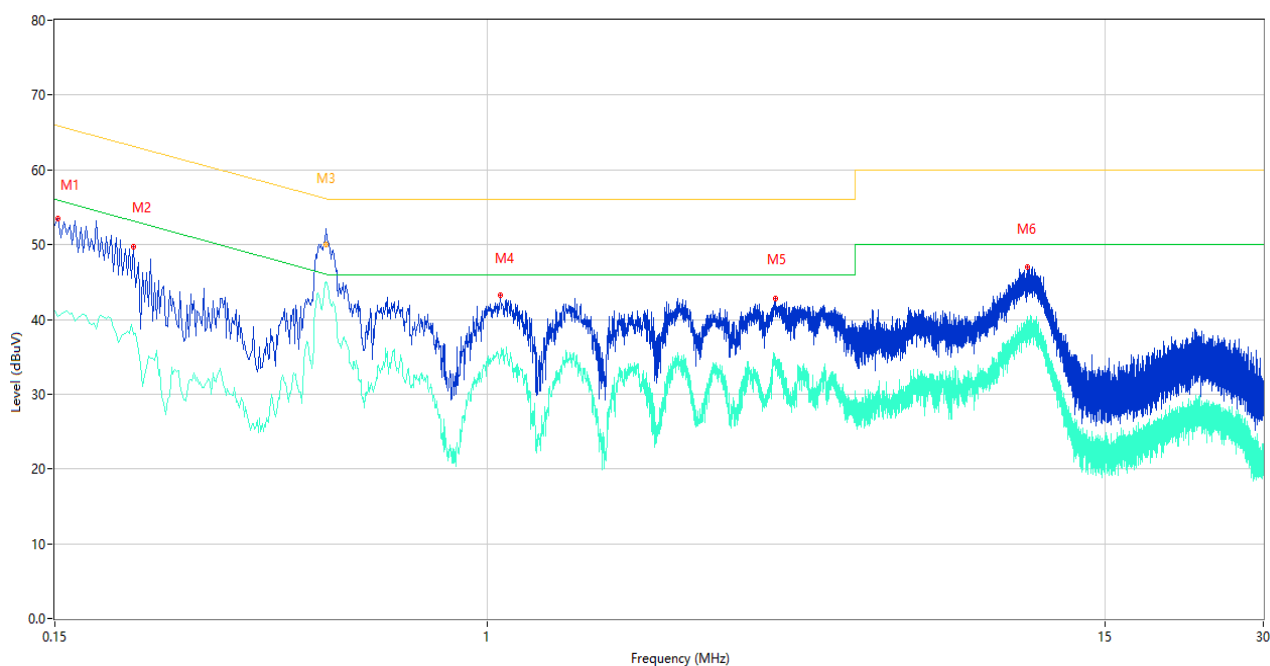
The Normal Work Test Mode

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.156	54.41	10.18	65.67	11.26	Peak	L	Pass
1**	0.156	42.57	10.18	55.67	13.10	AV	L	Pass
2	0.280	46.84	10.06	60.82	13.98	Peak	L	Pass
2**	0.280	33.08	10.06	50.82	17.74	AV	L	Pass
3	0.484	50.22	10.36	56.27	6.05	Peak	L	Pass
3**	0.484	40.90	10.36	46.27	5.37	AV	L	Pass
4	0.498	49.78	10.29	56.03	6.25	Peak	L	Pass
4**	0.498	44.26	10.29	46.03	1.77	AV	L	Pass
5	4.066	42.40	10.40	56.00	13.60	Peak	L	Pass
5**	4.066	34.39	10.40	46.00	11.61	AV	L	Pass
6	10.890	45.96	10.61	60.00	14.04	Peak	L	Pass
6**	10.890	40.12	10.61	50.00	9.88	AV	L	Pass

A.2.2 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	53.56	10.19	65.89	12.33	Peak	N	Pass
1**	0.152	40.33	10.19	55.89	15.56	AV	N	Pass
2	0.212	49.67	10.09	63.13	13.46	Peak	N	Pass
2**	0.212	37.93	10.09	53.13	15.20	AV	N	Pass
3	0.492	51.66	10.32	56.13	4.47	Peak	N	N/A
3*	0.492	50.08	10.32	56.13	6.05	QP	N	Pass
3**	0.492	44.81	10.32	46.13	1.19	AV	N	Pass
4	1.058	43.22	10.03	56.00	12.78	Peak	N	Pass
4**	1.058	35.23	10.03	46.00	10.77	AV	N	Pass
5	3.528	42.81	10.51	56.00	13.19	Peak	N	Pass
5**	3.528	34.64	10.51	46.00	11.36	AV	N	Pass
6	10.690	47.07	10.45	60.00	12.93	Peak	N	Pass
6**	10.690	37.62	10.45	50.00	12.38	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2320203-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2320203-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2320203-AI.PDF”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
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4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
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7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--