

FCC EMC TEST REPORT

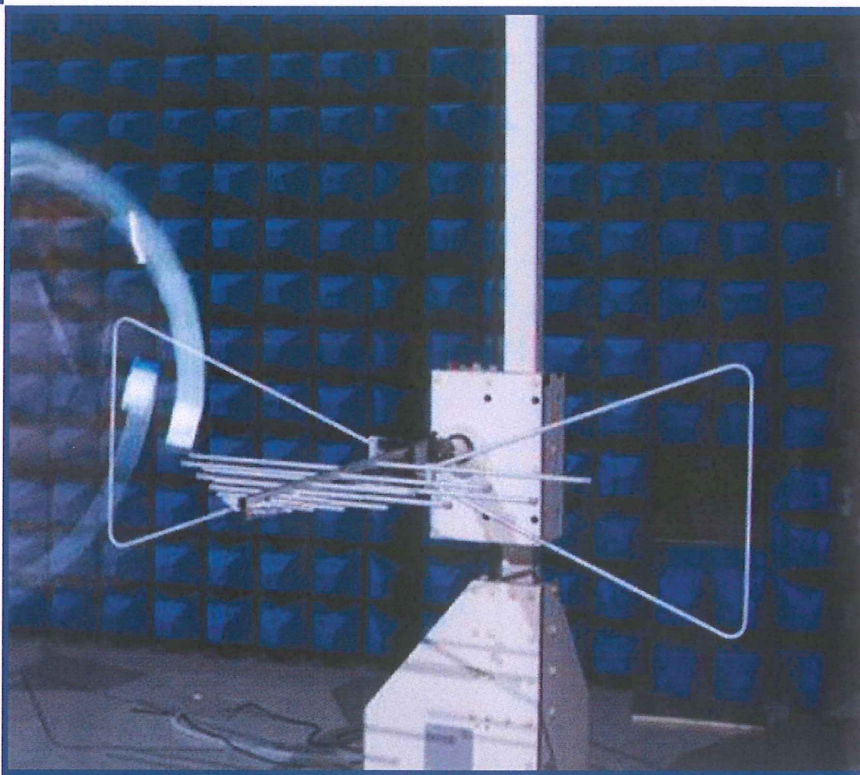
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR BLASTOFF CONTROLLER

ISSUED TO
Shenzhen Zero Zero Infinity Technology Co., Ltd.

Room A211-B, F2, Shanshui Building, No.4093, Liuxian Avenue,
Nanshan District, Shenzhen, China



Tested by:

Xia Long

(Engineer)

Date

Sep. 12, 2019

Approved by:

Wei Yanquan

(Chief Engineer)

Date

Sep. 12, 2019

Report No.: BL-SZ1970622-401

EUT Name: BLASTOFF CONTROLLER

Model Name: ZR-100B

Brand Name: ZERO ZERO

Test Standard: 47 CFR Part 15 Subpart B

FCC ID: 2AIDWZR-100B

Test Conclusion: Pass

Test Date: Jul. 26, 2019 ~ Aug. 28, 2019

Date of Issue: Sep. 12, 2019

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Sep. 12, 2019</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co.,Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co.,Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025.The accreditation certificate is 4344.01. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report refer to the BALUN report mode v6.7.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shenzhen Zero Zero Infinity Technology Co., Ltd.
Address	Room A211-B, F2, Shanshui Building, No.4093, Liuxian Avenue, Nanshan District, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	Shenzhen Zero Zero Infinity Technology Co., Ltd.
Address	Room A211-B, F2, Shanshui Building, No.4093, Liuxian Avenue, Nanshan District, Shenzhen, Guangdong, China

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	BLASTOFF CONTROLLER
Model Name Under Test	ZR-100B
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Ancillary Equipment	Battery	
	Brand Name	N/A
	Model No.	ZZTDS87
	Serial No.	N/A
	Capacity	2200 mAh
	Rated Voltage	3.8 V
	Limit Charge Voltage	4.35 V

2.6 Technical Information

Network and Wireless connectivity	2.4G ISM Band (GFSK modulation)
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3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	FCC 47 CFR Part 15 Subpart B (10-1-17 Edition)	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)	3.23 dB
Radiated emissions (30 MHz-1 GHz)	4.30 dB
Radiated emissions (1 GHz-18 GHz)	4.81 dB
Radiated emissions (18 GHz-40 GHz)	5.71 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

Environment Parameter	Selected Values During Tests			
	Temperature	Voltage	Relative Humidity	Ambient Pressure
Normal Temperature, Normal Voltage (NTNV)	23°C to 25°C	AC 120 V/60 Hz or DC 3.8V from battery	50% to 55%	100 kPa to 102 kPa

4.2 Test Equipment List

Radiated Emission Test For Frequency Below 1 GHz						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2019.07.04	2020.07.03	☒
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2018.08.22	2020.08.21	☒
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	9120D-1600	2018.07.11	2020.07.10	☐
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2020.02.20	☒
Test Software	BALUN	BL410_E	V19.419	--	--	☒

Radiated Emission Test For Frequency Above 1 GHz						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2018.11.07	2019.11.06	☒
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2018.08.22	2020.08.21	☐
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	9120D-1148	2018.07.11	2020.07.10	☒
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2020.02.20	☒
Test Software	BALUN	BL410_E	V19.419	--	--	☒

Conducted Emission Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2019.06.13	2020.06.12	☒
LISN	SCHWARZBECK	NSLK 8127	8127-687	2019.07.04	2020.07.03	☒
ISN	TESEQ	ISN T800	34449	2018.11.16	2019.11.15	☐
Shielded Enclosure	ChangNing	CN-130701	130703	N/A	N/A	☒
Test Software	BALUN	BL410_E	V19.419	--	--	☒

4.3 Test Enclosure list

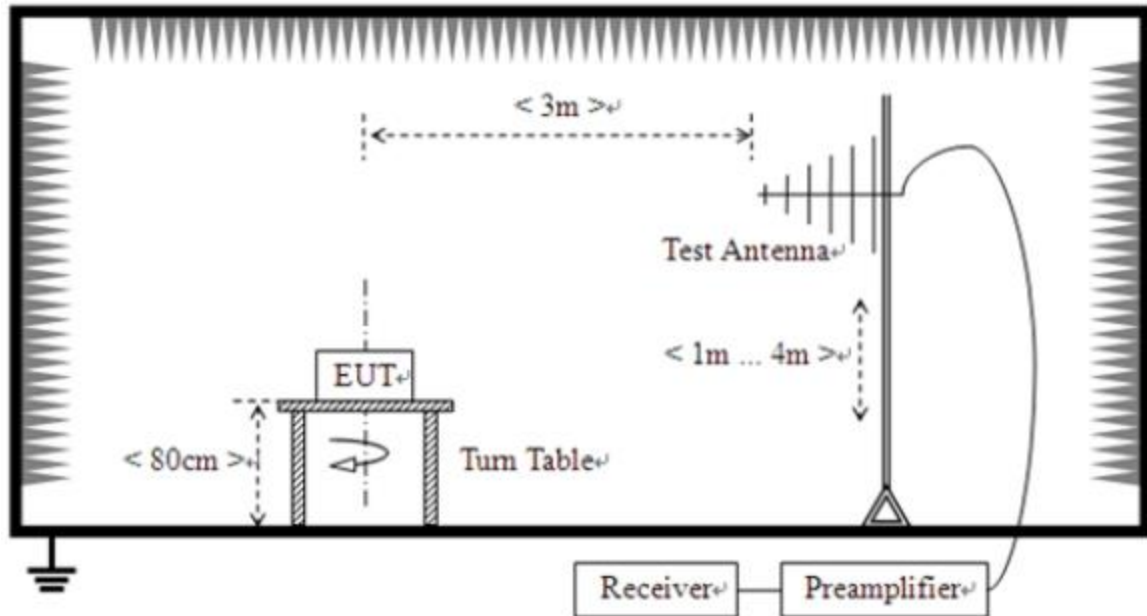
Description	Manufacturer	Model	Serial No.	Length	Description	Use
PC	Dell	015K3N	N/A	N/A	Special Handled	☐
Laptop	Apple	A1465	N/A	N/A	N/A	☐
Printer	HP	DESKJET 1000	N/A	N/A	N/A	☐
Keyboard	Logitech	Y-BP62a	N/A	N/A	N/A	☐
Mouse	Logitech	M100	N/A	N/A	N/A	☐
USB disk	Kingston	N/A	N/A	N/A	N/A	☐
TF Card	Kingston	N/A	N/A	N/A	N/A	☐
VGA Cable	N/A	N/A	N/A	1.5 m	Shielded with core	☐
HDMI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	☐
DVI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	☐
Coaxial video cable	N/A	N/A	N/A	2.0 m	Shielded with core	☐
iPhone	Apple	A1586	N/A	N/A	N/A	☐
Phone	OPPO	CPH1701	N/A	N/A	N/A	☒
Bluetooth Earphone	SAMSUNG	Gear Circle	N/A	N/A	N/A	☐
Wireless Communication s Test Set	R&S	CMW500	142028	N/A	Cal. Due 2019.06.14	☐
WIFI Router	TP-LINK	TL-WDR7500	N/A	N/A	N/A	☐
Earphone	N/A	OPPO	N/A	1.1 m	N/A	☐
Car Battery	Camel	55530	N/A	N/A	12 V/55 Ah	☐
Artificial load	N/A	N/A	N/A	N/A	2.5 Ω /100 W	☐
Artificial load	N/A	N/A	N/A	N/A	5 Ω /100 W	☐
Electronic Load	ITECH	IT8511	N/A	N/A	N/A	☐
USB Cable	N/A	N/A	N/A	1.5 m	Shielded with core	☒
DC Power Supply	ITECH	IT6863A	60001401068 7210006	N/A	N/A	☐
LCD Monitor	SAMSUNG	UA32C4000P	N/A	N/A	N/A	☐
LCD Monitor	Dell	U241HB	N/A	N/A	N/A	☐
RJ45 Cable	N/A	N/A	N/A	1.5 m	Shielded with core	☐
Type-c Cable	N/A	N/A	N/A	N/A	N/A	☒
Adapter	OPPO	AK903HK	N/A	N/A	N/A	☒

4.4 Test Configurations

Test Configurations (TC) No.	Description
TC01	<u>The Working Test Mode</u> EUT + Adapter + USB Cable + Battery + Phone + Type-c Cable + 2.4GHz TX Link

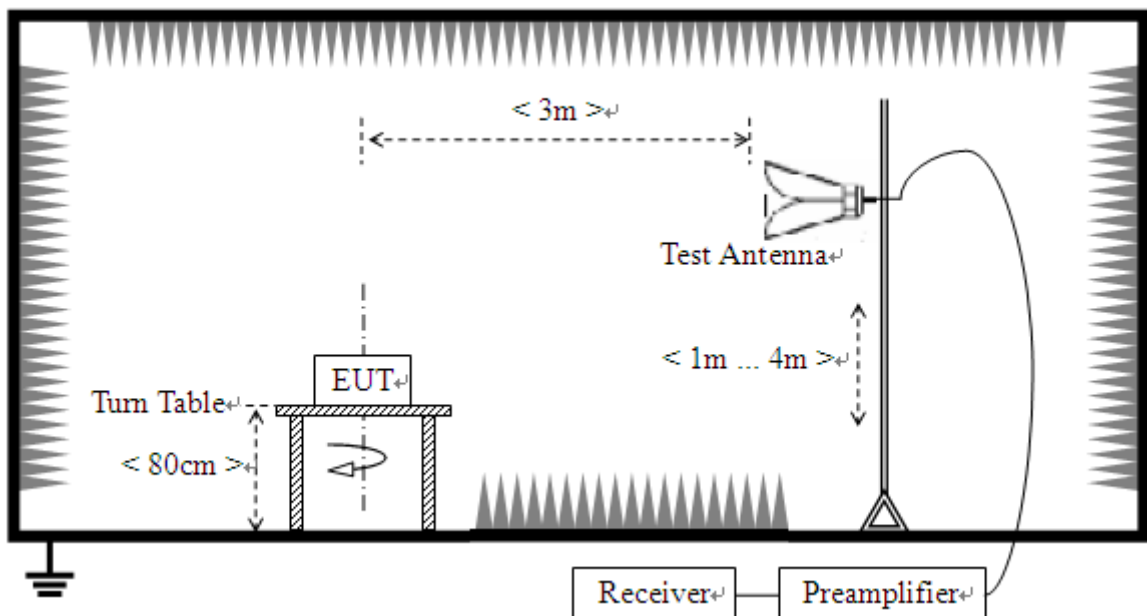
4.5 Test Setups

Test Setup 1



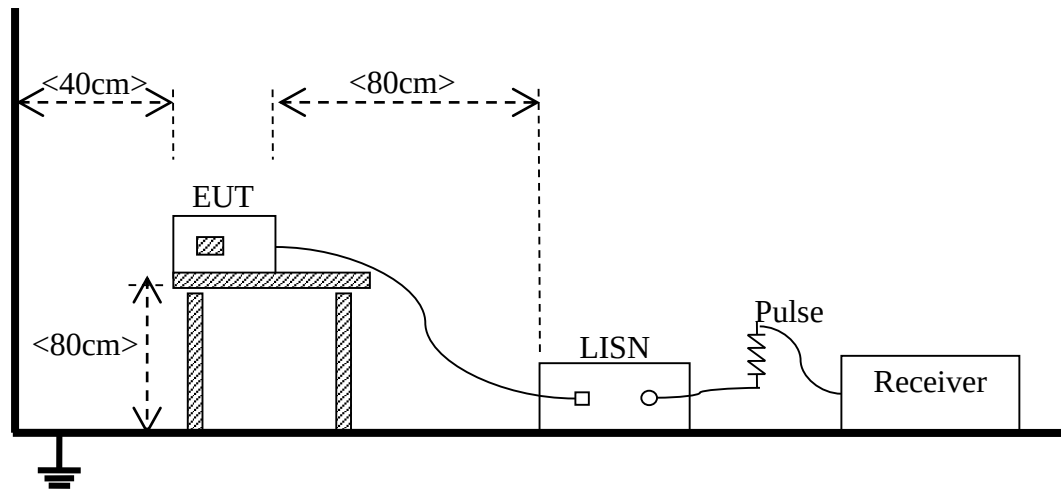
(For Radiated Emission Test (30 MHz-1 GHz))

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 Env.	NTNV
	Test Setup	Test Setup 1&2
	Test Configuration	TC01 ^{Note}
Conducted Emission, AC Ports	Test Env.	NTNV
	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 working 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 $\mu\text{V/m}$) = $20 \times \log [\text{Field Strength } (\mu\text{V/m})]$.
- 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.

5.1.1.4 Test Result

Please refer to ANNEX A.1.

NOTE:

1. Results (dB $\mu\text{V/m}$) = Reading (dB μV) + 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.

5.1.2.4 Test Result

Please refer to ANNEX A.2.

NOTE:

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

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.

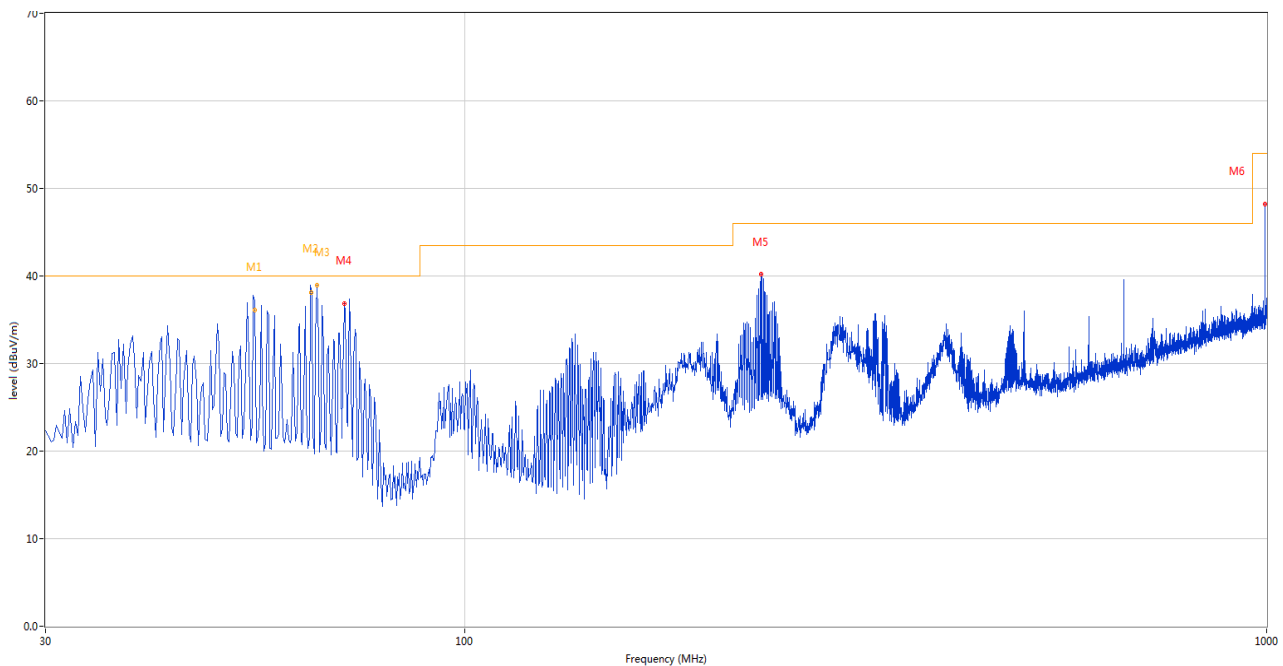
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The marked spikes near 2400 MHz with circle should be ignored because they are GFSK modulation carrier frequency.

Test Data and Plots

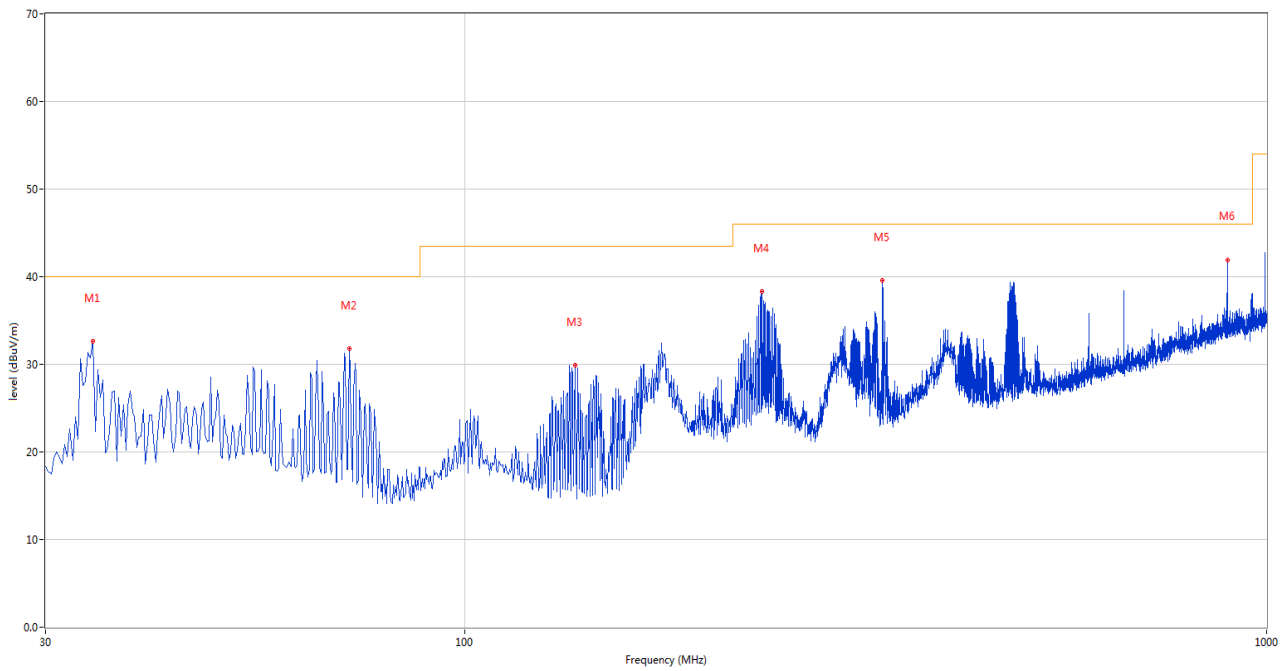
The Working Test Mode

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



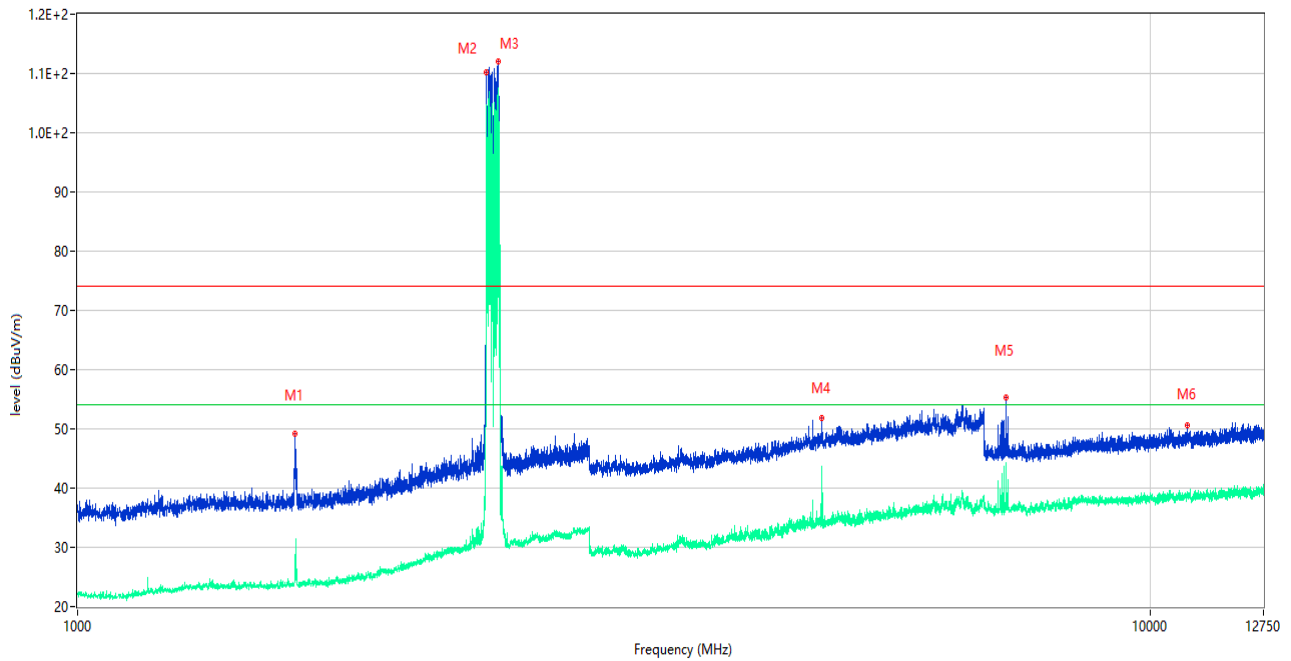
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	54.641	37.87	-23.52	40.0	-2.13	Peak	354.10	101	Vertical	N/A
1*	54.641	36.13	-23.52	40.0	-3.87	QP	354.10	101	Vertical	Pass
2	64.285	39.26	-25.40	40.0	-0.74	Peak	0.00	100	Vertical	N/A
2*	64.285	38.15	-25.40	40.0	-1.85	QP	0.00	100	Vertical	Pass
3	65.356	40.09	-25.62	40.0	0.09	Peak	41.10	103	Vertical	N/A
3*	65.356	38.98	-25.62	40.0	-1.02	QP	41.10	103	Vertical	Pass
4	70.740	36.86	-27.42	40.0	-3.14	Peak	354.10	100	Vertical	Pass
5	234.428	40.17	-23.49	46.0	-5.83	Peak	186.80	100	Vertical	Pass
6	995.878	48.20	-9.25	54.0	-5.80	Peak	0.00	200	Vertical	Pass

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



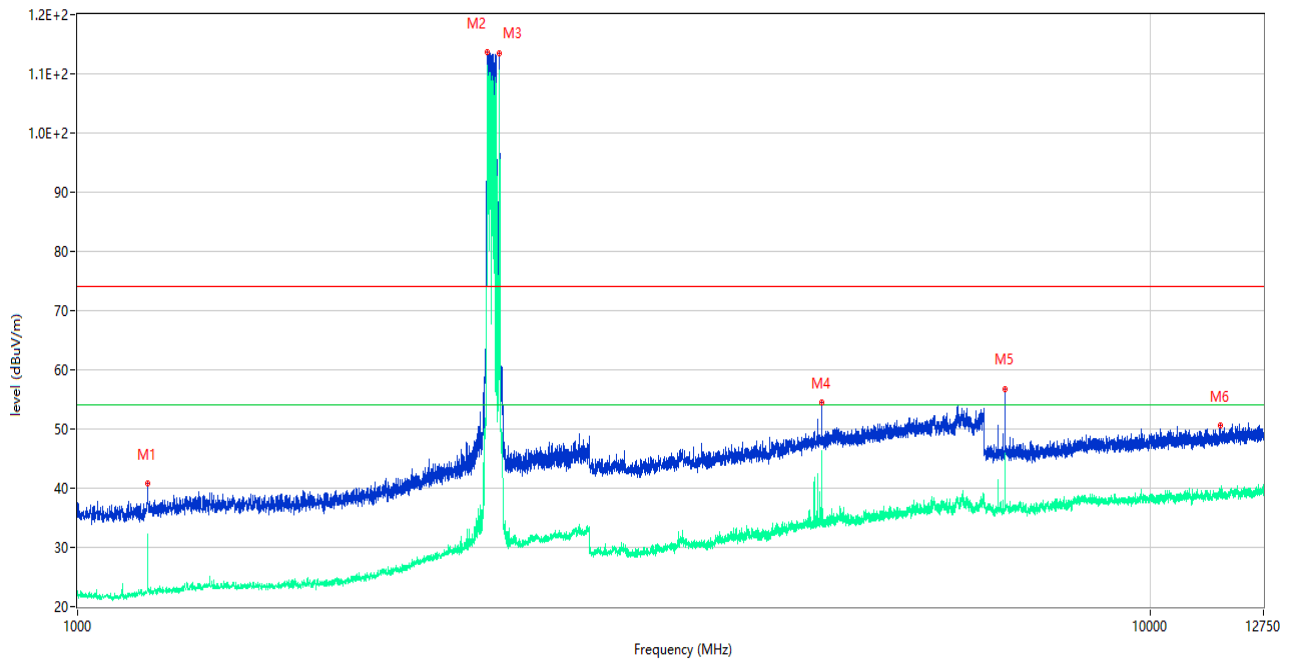
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	34.365	32.60	-26.19	40.0	-7.40	Peak	143.80	100	Horizontal	Pass
2	71.710	31.79	-27.89	40.0	-8.21	Peak	26.90	200	Horizontal	Pass
3	137.185	29.88	-27.96	43.5	-13.62	Peak	257.00	200	Horizontal	Pass
4	234.670	38.28	-23.46	46.0	-7.72	Peak	81.20	100	Horizontal	Pass
5	331.913	39.55	-21.20	46.0	-6.45	Peak	288.50	100	Horizontal	Pass
6	893.057	41.91	-10.59	46.0	-4.09	Peak	351.40	100	Horizontal	Pass

A.1.3 Test Antenna Vertical, 1 GHz – 12.75 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1596.000	26.19	-17.25	54.0	-27.81	AV	286.00	100	Vertical	Pass
1	1596.000	49.17	-17.25	74.0	-24.83	Peak	286.00	100	Vertical	Pass
2**	2405.000	103.07	-11.89	54.0	49.07	AV	360.00	100	Vertical	N/A
2	2405.000	110.11	-11.89	74.0	36.11	Peak	360.00	100	Vertical	N/A
3**	2465.000	104.95	-12.74	54.0	50.95	AV	355.00	100	Vertical	N/A
3	2465.000	112.13	-12.74	74.0	38.13	Peak	355.00	100	Vertical	N/A
4**	4939.000	43.68	-3.03	54.0	-10.32	AV	321.00	100	Vertical	N/A
4	4939.000	51.88	-3.03	74.0	-22.12	Peak	321.00	100	Vertical	N/A
5**	7334.938	37.92	-3.27	54.0	-16.08	AV	326.00	100	Vertical	N/A
5	7334.938	55.34	-3.27	74.0	-18.66	Peak	326.00	100	Vertical	N/A
6**	10819.438	39.03	0.93	54.0	-14.97	AV	309.00	100	Vertical	Pass
6	10819.438	50.63	0.93	74.0	-23.37	Peak	309.00	100	Vertical	Pass

A.1.4 Test Antenna Horizontal, 1 GHz – 12.75 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1162.000	26.97	-17.76	54.0	-27.03	AV	98.00	100	Horizontal	Pass
1	1162.000	40.80	-17.76	74.0	-33.20	Peak	98.00	100	Horizontal	Pass
2**	2408.500	102.44	-11.95	54.0	48.44	AV	241.00	100	Horizontal	N/A
2	2408.500	113.60	-11.95	74.0	39.60	Peak	241.00	100	Horizontal	N/A
3**	2473.000	108.79	-12.22	54.0	54.79	AV	133.00	100	Horizontal	N/A
3	2473.000	113.50	-12.22	74.0	39.50	Peak	133.00	100	Horizontal	N/A
4**	4939.000	46.26	-3.03	54.0	-7.74	AV	38.00	100	Horizontal	N/A
4	4939.000	54.55	-3.03	74.0	-19.45	Peak	38.00	100	Horizontal	N/A
5**	7322.000	36.35	-3.29	54.0	-17.65	AV	49.00	100	Horizontal	N/A
5	7322.000	56.76	-3.29	74.0	-17.24	Peak	49.00	100	Horizontal	N/A
6**	11624.438	38.71	0.22	54.0	-15.29	AV	207.00	100	Horizontal	Pass
6	11624.438	50.55	0.22	74.0	-23.45	Peak	207.00	100	Horizontal	Pass

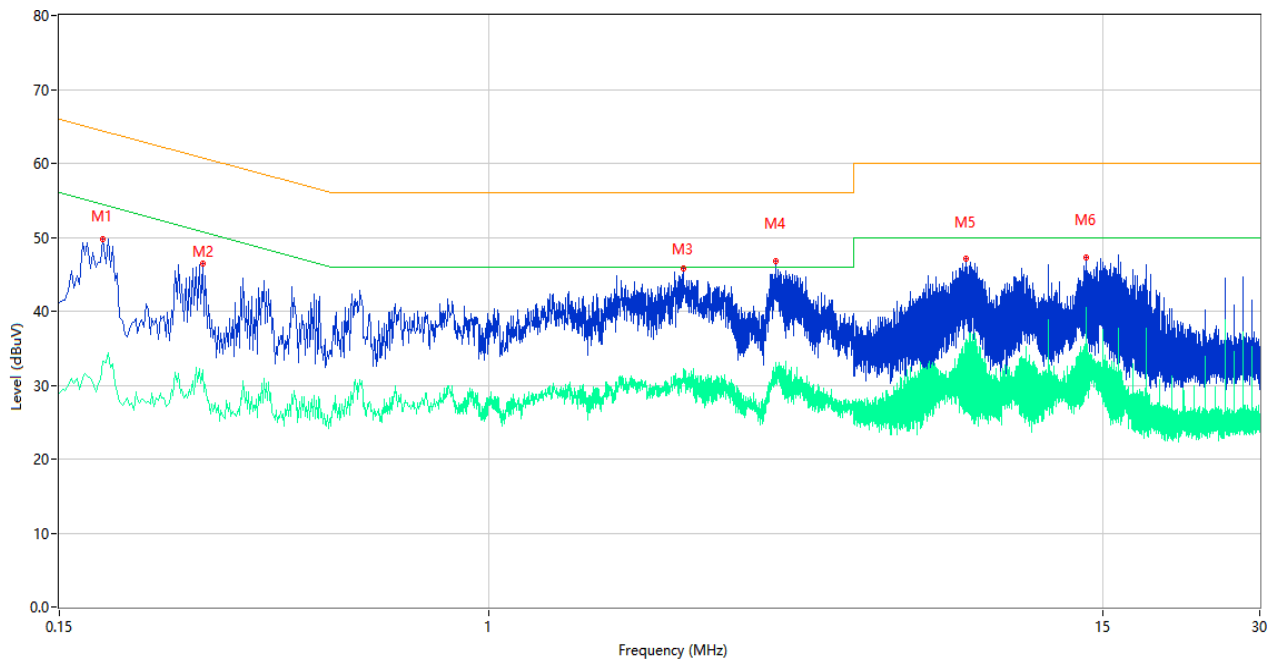
A.2 Conducted Emission

Test Data and Plots

The Working Test Mode

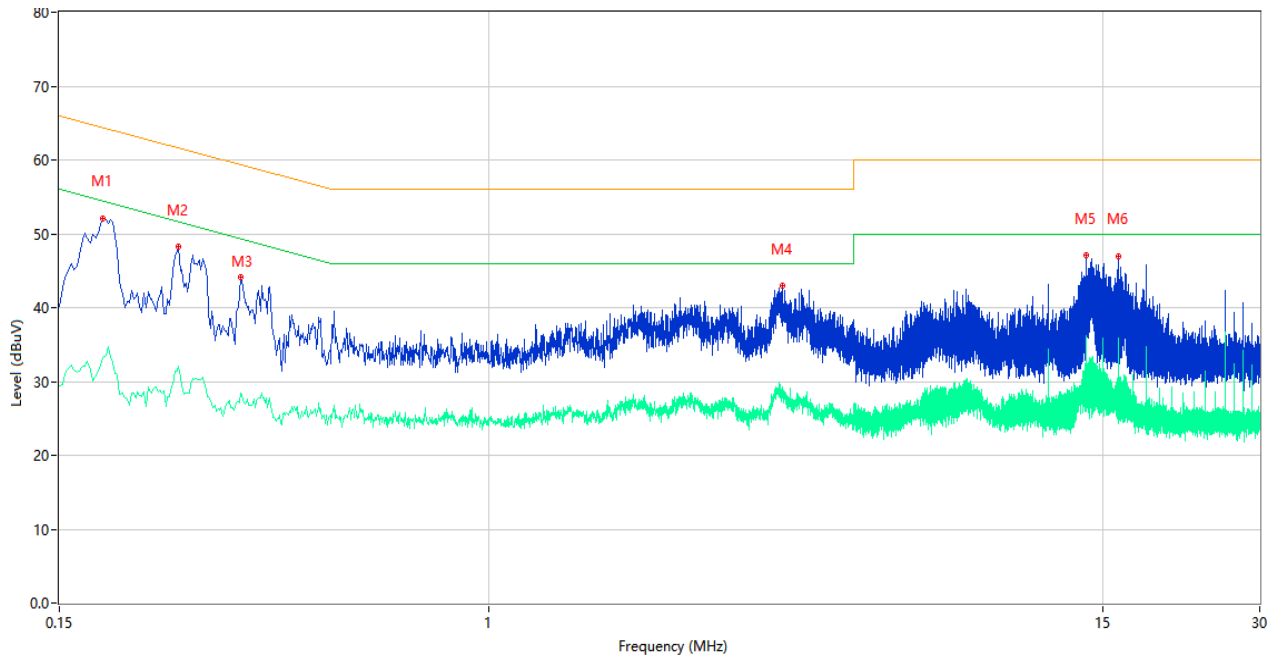
Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst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

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.182	49.80	10.39	64.39	-14.59	Peak	L	Pass
1**	0.182	33.26	10.39	54.39	-21.13	AV	L	Pass
2	0.282	46.38	10.34	60.76	-14.38	Peak	L	Pass
2**	0.282	32.05	10.34	50.76	-18.71	AV	L	Pass
3	2.354	45.79	10.26	56.00	-10.21	Peak	L	Pass
3**	2.354	30.64	10.26	46.00	-15.36	AV	L	Pass
4	3.536	46.79	10.30	56.00	-9.21	Peak	L	Pass
4**	3.536	32.85	10.30	46.00	-13.15	AV	L	Pass
5	8.190	47.03	10.34	60.00	-12.97	Peak	L	Pass
5**	8.190	29.00	10.34	50.00	-21.00	AV	L	Pass
6	13.932	47.22	10.40	60.00	-12.78	Peak	L	Pass
6**	13.932	38.95	10.40	50.00	-11.05	AV	L	Pass

A.2.2 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.182	52.14	10.39	64.39	-12.25	Peak	N	Pass
1**	0.182	33.17	10.39	54.39	-21.22	AV	N	Pass
2	0.254	48.28	10.34	61.63	-13.35	Peak	N	Pass
2**	0.254	32.01	10.34	51.63	-19.62	AV	N	Pass
3	0.334	44.07	10.33	59.35	-15.28	Peak	N	Pass
3**	0.334	28.47	10.33	49.35	-20.88	AV	N	Pass
4	3.648	43.00	10.30	56.00	-13.00	Peak	N	Pass
4**	3.648	29.17	10.30	46.00	-16.83	AV	N	Pass
5	13.930	47.07	10.40	60.00	-12.93	Peak	N	Pass
5**	13.930	32.18	10.40	50.00	-17.82	AV	N	Pass
6	16.072	46.87	10.44	60.00	-13.13	Peak	N	Pass
6**	16.072	32.10	10.44	50.00	-17.90	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ1970622-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ1970622-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ1970622-AI.PDF”.

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