

TEST REPORT

Applicant: Shenzhen Jimi IoT Co., Ltd.
Address: 3-4/F, Block A, Building #7, Shenzhen International Innovation Valley, Dashi 1st Road, Nanshan District, Shenzhen, Guangdong, China
Equipment Type: LTE Container GNSS Tracker
Model Name: LL306 (refer section 2.4)
Brand Name: JIMI
FCC ID: 2AMLF-LL306
Test Standard: 47 CFR Part 15 Subpart B
Sample Arrival Date: Jan. 04, 2023
Test Date: Jan. 05, 2023 - Feb. 02, 2023
Date of Issue: Feb. 22, 2023

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Sijie Zheng

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Xia Long

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(Technical Director)

Jim Liao

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Feb. 22, 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	Shenzhen Jimi IoT Co., Ltd.
Address	3-4/F, Block A, Building #7, Shenzhen International Innovation Valley, Dashi 1st Road, Nanshan District, Shenzhen, Guangdong, China

2.2 Manufacturer Information

Manufacturer	Shenzhen Jimi IoT Co., Ltd.
Address	3-4/F, Block A, Building #7, Shenzhen International Innovation Valley, Dashi 1st Road, 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	LTE Container GNSS Tracker
Model Name Under Test	LL306
Series Model Name	LL306LA/LL306L/LL306A/LL306NA/LL306D
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the customer)
Hardware Version	CT10LD_MB_V1.0
Software Version	CT10LD_CT10_WAAE_V2.0_XQNA_230109.1427
Dimensions (Approx.)	43.0*104.0*200.0mm
Weight (Approx.)	370g

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	PL262920
	Serial No.	N/A
	Capacity	5250mAh
	Rated Voltage	3.7V
	Limit Charge Voltage	N/A

2.6 Technical Information

Network and Wireless connectivity	2G Network GPRS/EDGE 850/1900 MHz 4G Network LTE FDD Band 2/4/5/7/12/17 2.4G WIFI 802.11b, 802.11g (only RX) GPS
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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 240V/50Hz AC 120V/60Hz	25.6℃	43%	101kPa	Jan. 05, 2023	Gu Shuaizhen
Conducted Emission	AC 240V/50Hz AC 120V/60Hz	24.3℃	52%		Jan. 18, 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	Agilent	N9038A	MY55330120	2022.09.09	2023.09.08	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2022.09.09	2023.09.08	☒
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9168-00867	2022.04.12	2025.04.11	☒
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		☒

Radiated Emission Test For Frequency Above 1 GHz (3m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	Agilent	N9038A	MY55330120	2022.09.07	2023.09.08	☒
Spectrum Analyzer	ROHDE & SCHWARZ	FSV40	101544	2022.12.28	2023.12.27	☐
Amplifier (1-12GHz)	COM-MV	DLNAB-1000-12000-002	1740103	2022.01.04	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	2022.09.08	2023.09.07	☐
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	YiHeng	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

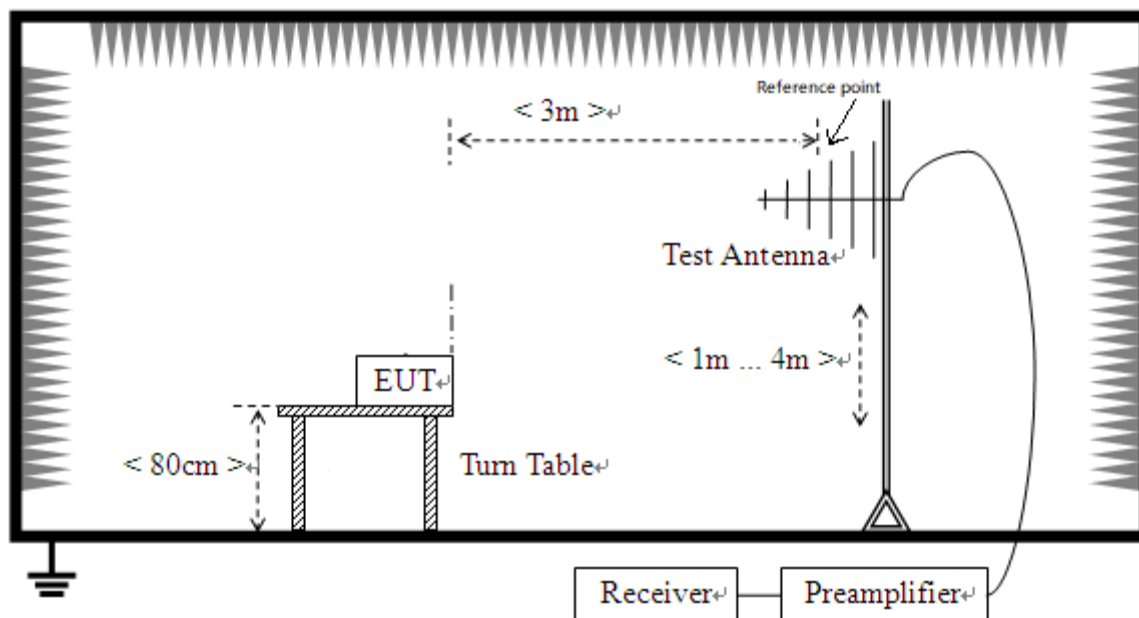
Description	Manufacturer	Model	Serial No.	Length	Description	Use
Wireless Communications Test Set	R&S	CMW500	127801	N/A	Cal. Due 2023.12.27	☒
Adapter	N/A	N/A	N/A	N/A	N/A	☒
USB Cable	N/A	N/A	N/A	N/A	N/A	☒

4.4 Test Configurations

Test Configurations (TC) No.	Description
TC01	<u>The GSM 850 MHz RX Test Mode</u> GSM 850 MHz RX + EUT +Adapter + USB Cable + Battery
TC02	<u>The EGPRS 850 MHz RX Test Mode</u> EGPRS 850 MHz RX + EUT +Adapter + USB Cable + Battery
TC03	<u>The EGPRS 850 MHz RX Test Mode</u> EGPRS 850 MHz RX + EUT +Adapter + USB Cable + Battery
TC04	<u>The FDD LTE Band 12 RX Test Mode</u> LTE Band 12 RX + EUT +Adapter + USB Cable + Battery
TC05	<u>The FDD LTE Band 17 RX Test Mode</u> LTE Band 17 RX + EUT +Adapter + USB Cable + Battery

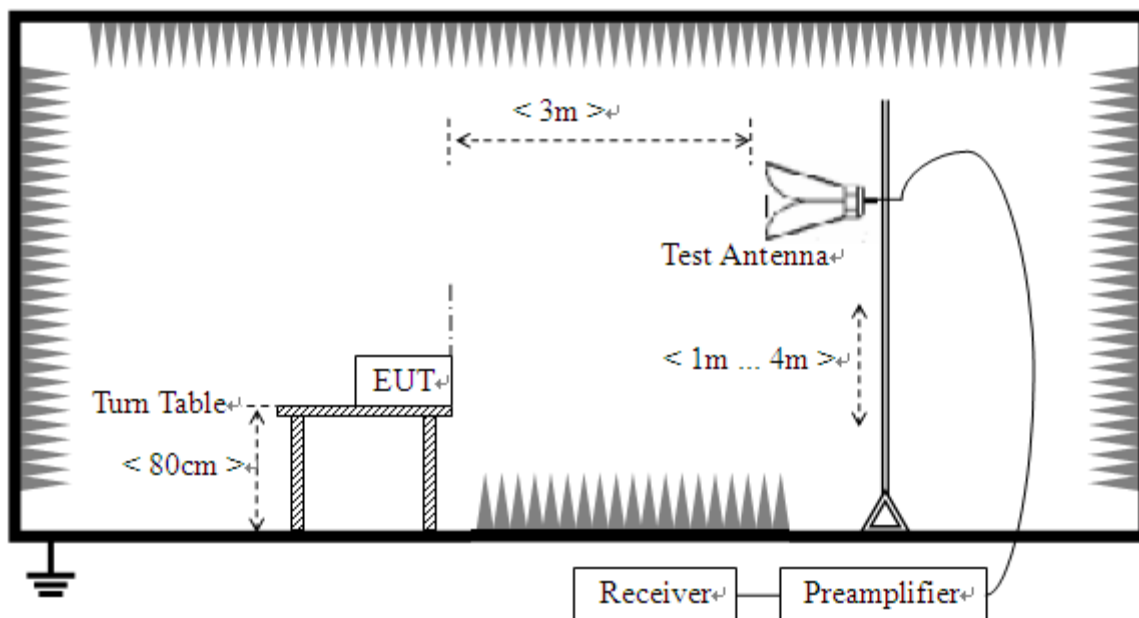
4.5 Test Setups

Test Setup 1

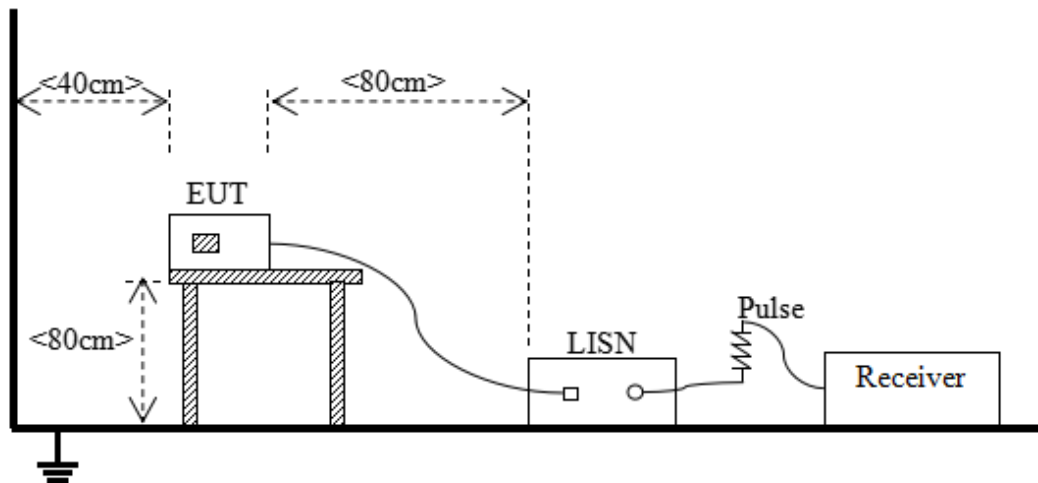


(For Radiated Emission Test (30 MHz-1 GHz))

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~TC05 ^{Note}
Conducted Emission, AC Ports	Test Setup	Test Setup 3
	Test Configuration	TC01~TC05 ^{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 GSM 850 MHz RX 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.

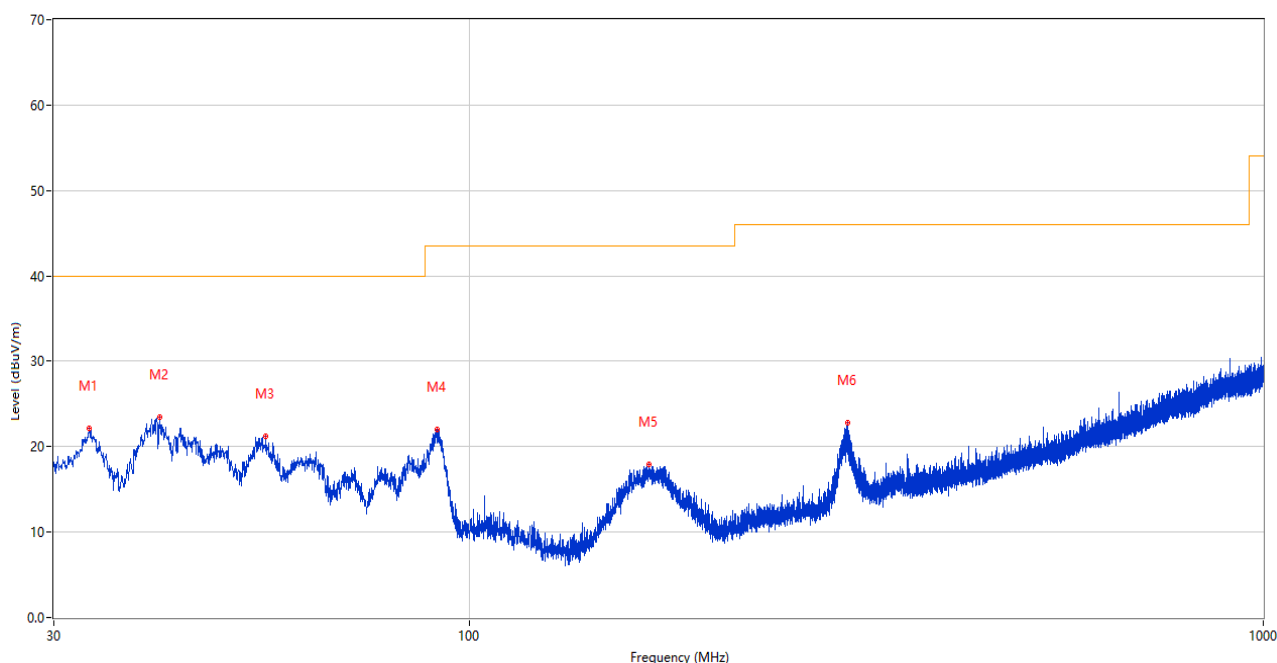
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data and Plots

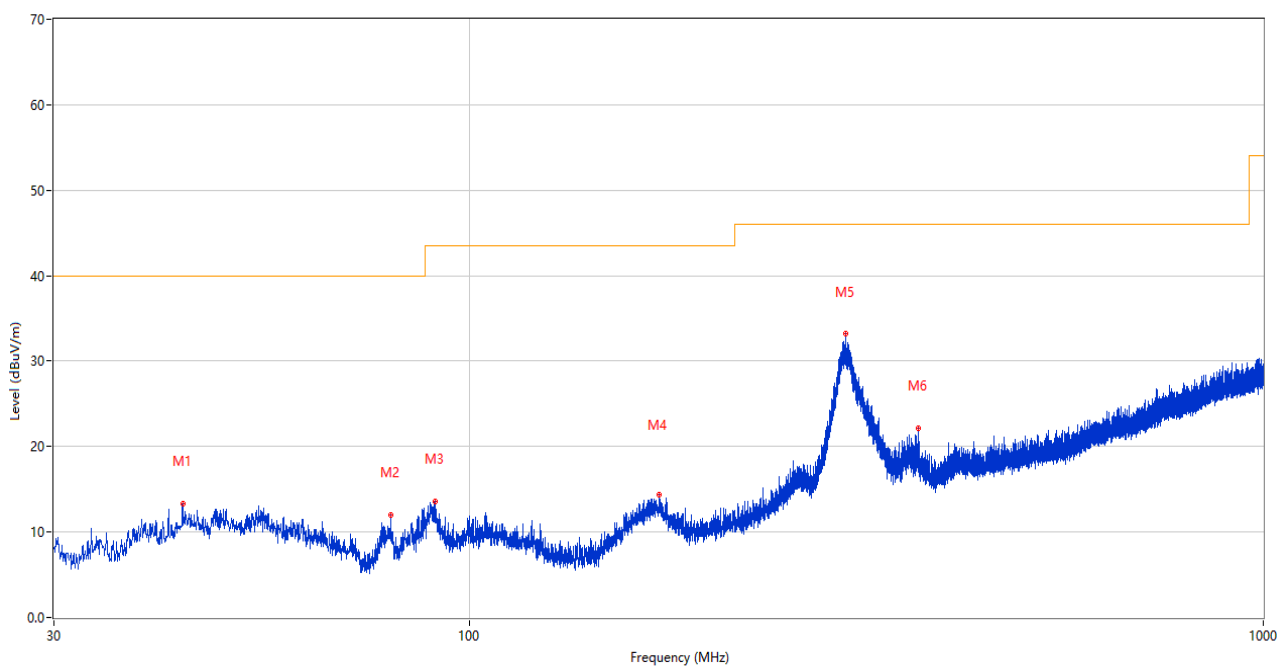
The GSM 850 MHz RX Test Mode

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



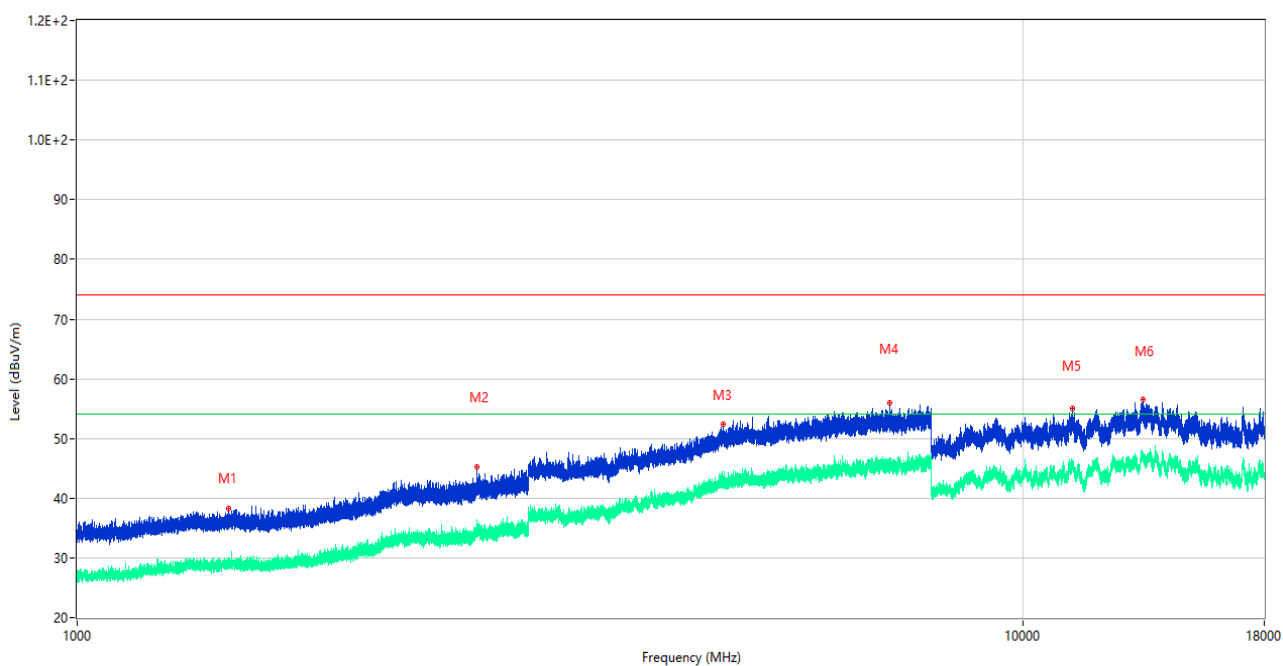
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	33.201	22.14	-28.92	40.0	17.86	Peak	248.00	100	Vertical	Pass
2	40.816	23.43	-26.47	40.0	16.57	Peak	0.00	100	Vertical	Pass
3	55.511	21.19	-25.95	40.0	18.81	Peak	174.00	100	Vertical	Pass
4	91.256	22.04	-28.25	43.5	21.46	Peak	70.00	100	Vertical	Pass
5	168.274	17.94	-29.24	43.5	25.56	Peak	235.00	100	Vertical	Pass
6	299.902	22.75	-23.67	46.0	23.25	Peak	215.00	100	Vertical	Pass

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



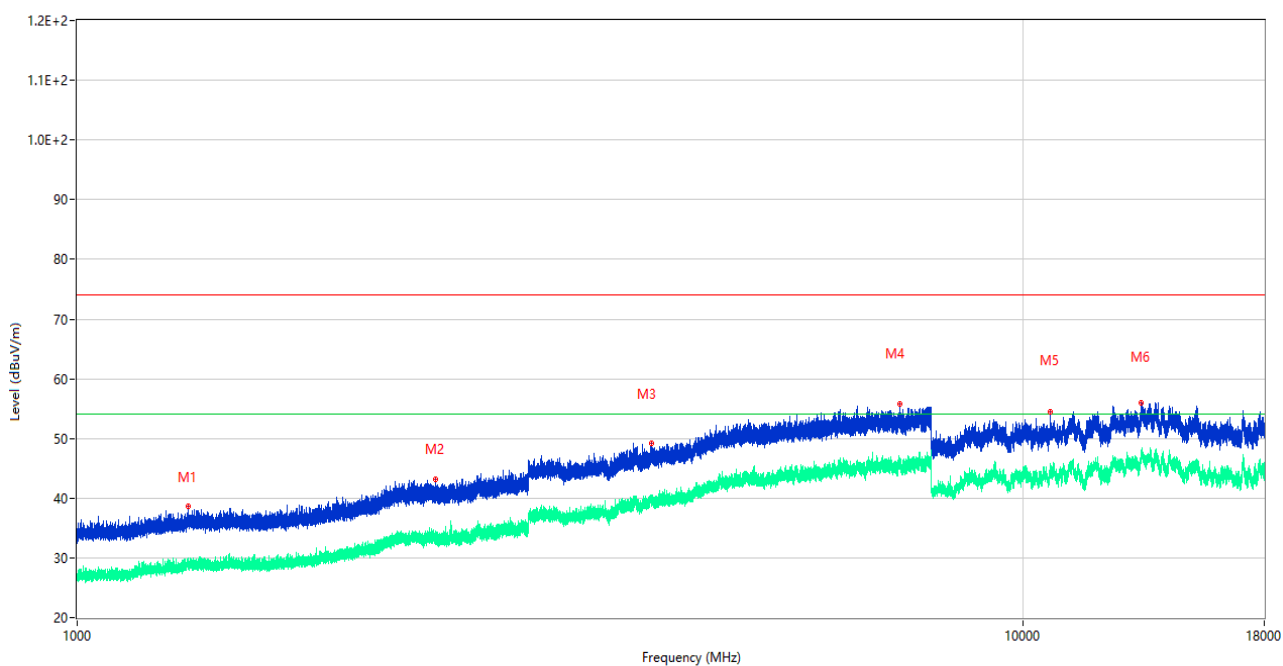
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.580	13.26	-25.73	40.0	26.74	Peak	139.00	100	Horizontal	Pass
2	79.664	11.99	-31.00	40.0	28.01	Peak	147.00	100	Horizontal	Pass
3	90.625	13.55	-28.38	43.5	29.95	Peak	247.00	200	Horizontal	Pass
4	173.512	14.33	-28.95	43.5	29.17	Peak	33.00	200	Horizontal	Pass
5	297.866	33.16	-23.78	46.0	12.84	Peak	158.00	100	Horizontal	Pass
6	367.463	22.12	-21.88	46.0	23.88	Peak	147.00	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	1446.200	38.21	-16.65	74.0	35.79	Peak	43.00	100	Vertical	Pass
1**	1446.200	28.47	-16.65	54.0	25.53	AV	43.00	100	Vertical	Pass
2	2646.700	45.26	-10.31	74.0	28.74	Peak	133.00	100	Vertical	Pass
2**	2646.700	34.17	-10.31	54.0	19.83	AV	133.00	100	Vertical	Pass
3	4820.750	52.48	0.73	74.0	21.52	Peak	332.00	100	Vertical	Pass
3**	4820.750	42.85	0.73	54.0	11.15	AV	332.00	100	Vertical	Pass
4	7230.750	56.04	1.89	74.0	17.96	Peak	242.00	100	Vertical	Pass
4**	7230.750	45.18	1.89	54.0	8.82	AV	242.00	100	Vertical	Pass
5	11271.999	55.07	2.05	74.0	18.93	Peak	197.00	100	Vertical	Pass
5**	11271.999	45.14	2.05	54.0	8.86	AV	197.00	100	Vertical	Pass
6	13406.500	56.52	4.82	74.0	17.48	Peak	50.00	100	Vertical	Pass
6**	13406.500	46.65	4.82	54.0	7.35	AV	50.00	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	1310.900	38.62	-16.29	74.0	35.38	Peak	4.00	100	Horizontal	Pass
1**	1310.900	29.91	-16.29	54.0	24.09	AV	4.00	100	Horizontal	Pass
2	2394.600	43.25	-11.78	74.0	30.75	Peak	68.00	100	Horizontal	Pass
2**	2394.600	33.08	-11.78	54.0	20.92	AV	68.00	100	Horizontal	Pass
3	4046.250	49.24	-2.18	74.0	24.76	Peak	351.00	100	Horizontal	Pass
3**	4046.250	39.72	-2.18	54.0	14.28	AV	351.00	100	Horizontal	Pass
4	7408.750	55.85	2.68	74.0	18.15	Peak	287.00	100	Horizontal	Pass
4**	7408.750	46.05	2.68	54.0	7.95	AV	287.00	100	Horizontal	Pass
5	10698.000	54.55	1.53	74.0	19.45	Peak	184.00	100	Horizontal	Pass
5**	10698.000	45.09	1.53	54.0	8.91	AV	184.00	100	Horizontal	Pass
6	13339.000	55.93	4.85	74.0	18.07	Peak	33.00	100	Horizontal	Pass
6**	13339.000	47.55	4.85	54.0	6.45	AV	33.00	100	Horizontal	Pass

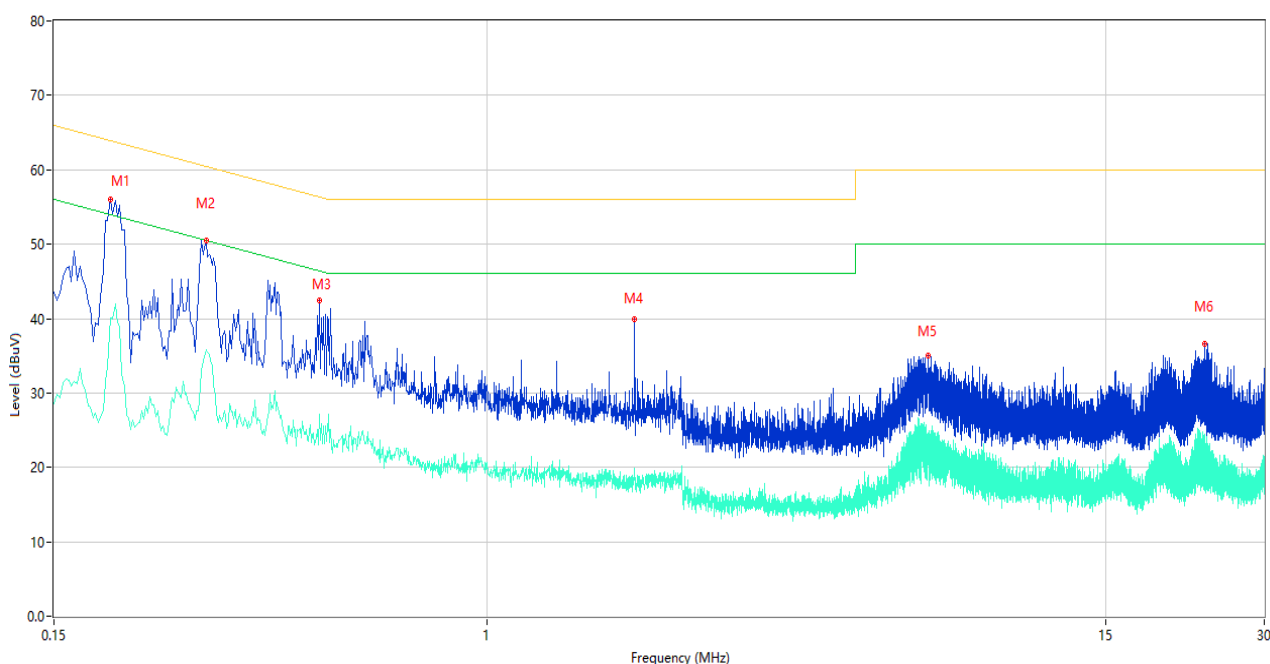
A.2 Conducted Emission

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

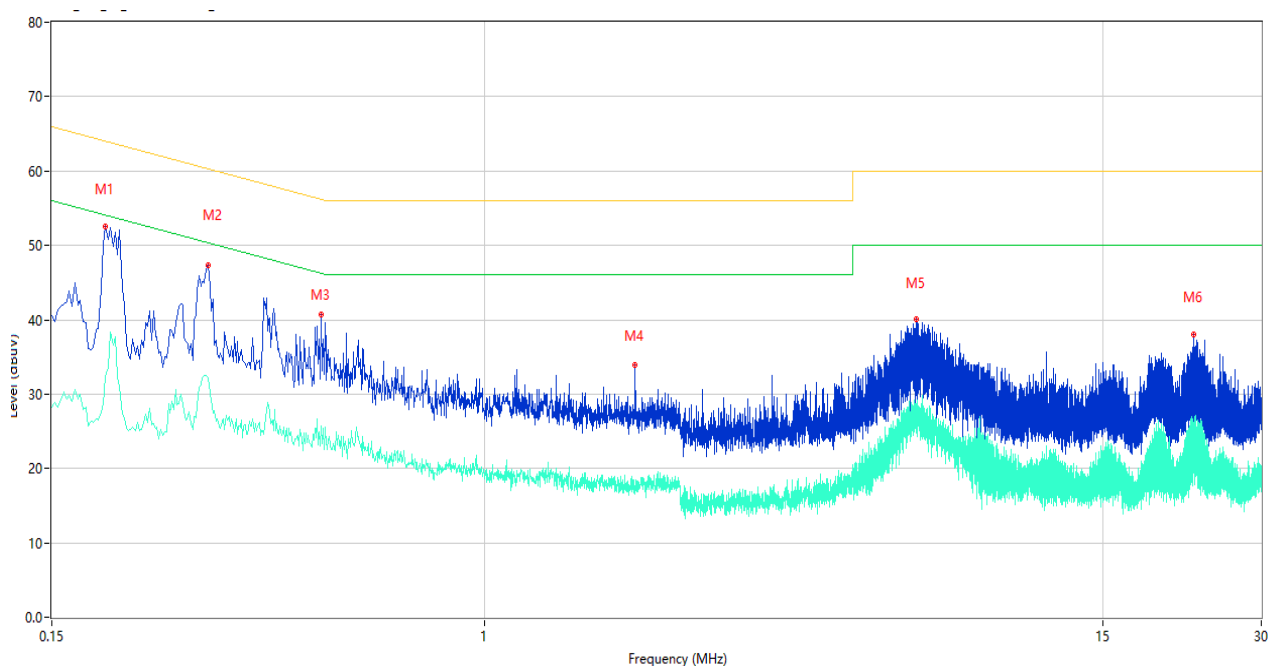
The GSM 850 MHz RX Test Mode

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.192	56.07	10.11	63.95	7.88	Peak	L	Pass
1**	0.192	40.09	10.11	53.95	13.86	AV	L	Pass
2	0.292	50.51	10.05	60.47	9.96	Peak	L	Pass
2**	0.292	35.84	10.05	50.47	14.63	AV	L	Pass
3	0.480	42.46	10.38	56.34	13.88	Peak	L	Pass
3**	0.480	27.17	10.38	46.34	19.17	AV	L	Pass
4	1.906	39.99	10.11	56.00	16.01	Peak	L	Pass
4**	1.906	19.50	10.11	46.00	26.50	AV	L	Pass
5	6.884	35.10	10.21	60.00	24.90	Peak	L	Pass
5**	6.884	21.01	10.21	50.00	28.99	AV	L	Pass
6	23.112	36.62	10.35	60.00	23.38	Peak	L	Pass
6**	23.112	20.77	10.35	50.00	29.23	AV	L	Pass

A.2.2 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.190	52.62	10.12	64.04	11.42	Peak	N	Pass
1**	0.190	32.40	10.12	54.04	21.64	AV	N	Pass
2	0.298	47.30	10.05	60.30	13.00	Peak	N	Pass
2**	0.298	32.15	10.05	50.30	18.15	AV	N	Pass
3	0.488	40.66	10.34	56.20	15.54	Peak	N	Pass
3**	0.488	25.69	10.34	46.20	20.51	AV	N	Pass
4	1.932	33.90	10.07	56.00	22.10	Peak	N	Pass
4**	1.932	17.29	10.07	46.00	28.71	AV	N	Pass
5	6.608	40.05	10.29	60.00	19.95	Peak	N	Pass
5**	6.608	28.31	10.29	50.00	21.69	AV	N	Pass
6	22.328	38.02	10.60	60.00	21.98	Peak	N	Pass
6**	22.328	25.05	10.60	50.00	24.95	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2310065-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2310065-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2310065-AI.PDF”.

Statement

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