

ISSUED BY Shenzhen BALUN Technology Co., Ltd.

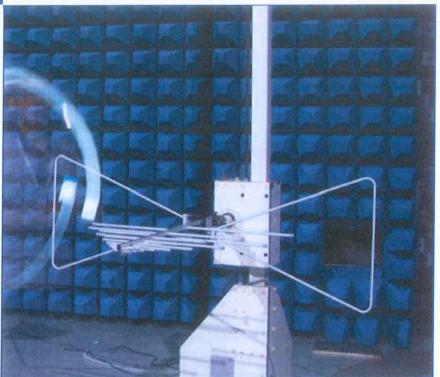


FOR

C400-XT

ISSUED TO GN Audio A/S

Lautrupbjerg 7, 2750 Ballerup, Denmark



Tested by:

Xia Long

Xia Long

(Engineer)

Approved by

Wei Yanquan

(Chief Engineer)

Date

Date

Date

Report No.:

BL-SZ1760377-402

EUT Name:

C400-XT

Model Name:

OTE900

Brand Name:

BlueParrott

Test Standard:

47 CFR Part 15 Subpart C

FCC ID:

BCE-OTE900

Test conclusion:

Pass

Test Date:

Aug. 08, 2017 ~ Aug. 15, 2017

Date of Issue:

Aug. 15, 2017

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Revision History

Version **Revisions Content** Issue Date Rev. 01 Aug. 15, 2017

Initial Issue

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

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

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Test Location	
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,
71001033	Nanshan District, Shenzhen, Guangdong Province, P. R. China
	The laboratory has been listed by Industry Canada to perform
	electromagnetic emission measurements. The recognition numbers of
	test site are 11524A-1.
Acaraditation	The laboratory has been listed by US Federal Communications
Accreditation	Commission to perform electromagnetic emission measurements. The
Certificate	recognition numbers of test site are 832625.
	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.
	All measurement facilities used to collect the measurement data are
Description	located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi
Description	Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	518055

1.3 Laboratory Condition

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

1.4 Announce

- (1) The test report reference to the report template version v4.3.
- (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	GN Audio A/S
Address	Lautrupbjerg 7, 2750 Ballerup, Denmark

2.2 Manufacturer Information

Manufacturer	GN Audio A/S
Address	Lautrupbjerg 7, 2750 Ballerup, Denmark

2.3 Factory Information

Factory	Wata Electronics Co., Ltd.
Addross	No.142, South Tanshen Road, Tanzhou Town, Zhongshan City,
Address	Guangdong Province, P.R.China

2.4 General Description for Equipment under Test (EUT)

EUT Name	C400-XT
Under Test Model	OTE900
Name	
Series Model Name	N/A
Description of Model	N/A
name differentiation	N/A
Hardware Version	CSR8670
Software Version	ADK 4.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
Network and Wireless connectivity	Bluetooth

2.5 Ancillary Equipment

	Built-in Battery (not replaceable)	
	Brand Name	N/A
	Model No.	PL602030
Ancillary Equipment 1	Serial No.	N/A
	Capacitance	300 mAh
	Rated Voltage	3.7 V
	Limit Charge Voltage	4.2 V



2.6 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

Modulation Type	ASK	
	☐ Mobile	
Product Type	□ Portable □	
	☐ Fix Location	
Frequency Range	13.56 MHz	
Receiver Categorization	3	
Number of channel	1	
Tested Channel	1	
Antenna Gain	3.22dBi	
Antenna Type	PCB Antenna	



3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title		
	47 CFR Part 15,			
1	Subpart C	Intentional Radiators		
	(10-1-14 Edition)			
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless		
2		Devices		

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	-	Pass Note
2	Emissions Bandwidth	2.1049	ANNEX A.1	Pass
3	Field Strength of Fundamental Emissions	15.225(a) ANNEX A.2		Pass
4	Radiated Emissions	15.225(d) 15.209	ANNEX A.3	Pass
5	Frequency Stability	15.225(e)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass

Note: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.



4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	45% - 55%				
Atmospheric Pressure	100 kPa - 102 kPa				
Temperature	NT (Normal Temperature)	+22°C to +25°C			
Working Voltage of the EUT	NV (Normal Voltage)	3.7 V			

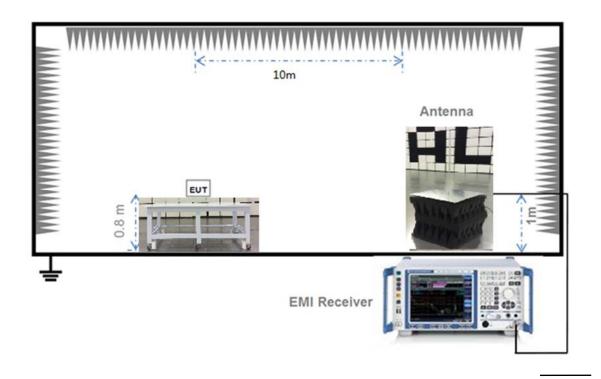
4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2017.06.22	2018.06.21
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	177746	2017.06.22	2018.06.21
Signal Generator	ignal Generator ROHDE&SCHWARZ		260592	2017.06.22	2018.06.21
Switch Unit with OSP- B157	ROHDE&SCHWARZ	OSP120	101270	2017.06.22	2018.06.21
Spectrum Analyzer	AGILENT	E4440A	MY45304434	2016.11.08	2017.11.07
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2017.06.22	2018.06.21
LISN	SCHWARZBECK	NSLK 8127	8127-687	2017.06.22	2018.06.21
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2017.06.22	2018.06.21
Power Splitter	KMW	DCPD-LDC	1305003215		
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2017.06.22	2018.06.21
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	-	
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	-	-1
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2017.06.22	2018.06.21
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2017.06.22	2018.06.21
Test Antenna- Rod(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2017.06.22	2018.06.21
Test Antenna- Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2017.06.22	2018.06.21
Test Antenna- Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2017.06.22	2018.06.21
Test Antenna- Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2017.06.22	2018.06.21
Anechoic Chamber	EMC TECHNOLOGY LTD	21.1m*11.6 m*7.35m	N/A	2017.02.21	2019.02.20
Shielded Enclosure	ChangNing	CN-130701	130703		



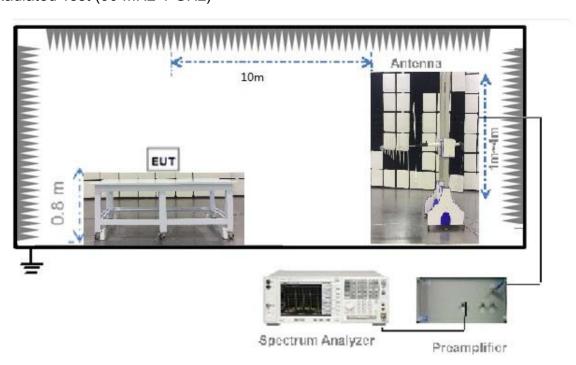
4.3 Description of Test Setup

4.3.1 For Radiated Test (Below 30 MHz)



(Diagram 1)

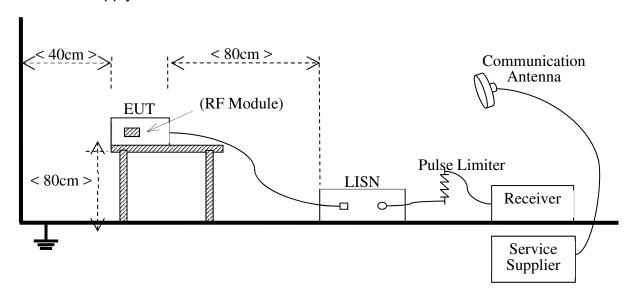
4.3.2 For Radiated Test (30 MHz-1 GHz)



(Diagram 2)



4.3.3 For AC Power Supply Port Test



(Diagram 3)



5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Standard Applicable

FCC §15.203 & 15.247(b)

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is An embedded-in	An embedded-in antenna design is used.

Reference Documents	Item
Photo	RF Chip



5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Emission Bandwidth

5.2.1 Definition

FCC §2.1049&15.215(c)

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency.

5.2.2 Test Setup

See section 4.1.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

The 20dB bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while the EUT is operating in transmission mode.

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth

RBW ≥ 1% of the 20 dB bandwidth

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.2.4 Test Result

Please refer to ANNEX A.1



5.3 Field Strength of Fundamental Emissions and Radiated Emissions

5.3.1 Limit

FCC §15.225(a), (b), (c)

According to FCC section 15.225, for <30 MHz, Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power. The EUT was set 10 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10 KHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT)

There was no detected Restricted bands and Radiated suprious emission below 30MHz. The 30m limit was converted to 3m Limit using square factor(x) as it was found by measurements as follows; 3 m Limit(dBuV/m) = $20\log(X)+40\log(30/3)=20\log(15848)+40\log(30/3)=124dBuV$

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Fraguency range (MHz)	Field Stre	Field Strength@3m		
Frequency range (MHz)	μV/m	dBμV/m	dBµV/m	
Below 13.110	30	29.5	69.5	
13.110 ~ 13.410	106	40.5	80.5	
13.410 ~ 13.553	334	50.5	90.5	
13.553 ~13.567	15.848	84	124	
13.567 ~ 13.710	334	50.5	90.5	
13.710 ~14.010	106	40.5	80.5	
Above 14.010	30	29.5	69.5	

NOTE:

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

FCC §15.225(d)

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)
0.009 - 0.490	2400/F(kHz)
0.490 - 1.705	24000/F(kHz)
1.705 - 30.0	30
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500



Note:

- 3. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 4. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.3.2 Test Setup

See section 4.1.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. 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. The power of the EUT transmitting frequency should be ignored.

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.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz VBW \ge RBW Sweep = auto Detector function = peak Trace = max hold

5.3.4 Test Result

Please refer to ANNEX A.2



5.4 Frequency Tolerance

5.4.1 Limit

FCC §15.225(e)

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

5.4.2 Test Setup

See section 4.1.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

- 1. The test is performed in a Temperature Chamber.
- 2. The EUT is configured as MS + DC Power Supply.

5.4.4 Test Result

Please refer to ANNEX A.4.



5.5 Conducted Emission

5.5.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a $50\mu\text{H}/50\Omega$ line impedance stabilization network (LISN).

Frequency range	Conducted Limit (dBμV)					
(MHz)	Quai-peak	Average				
0.15 - 0.50	66 to 56	56 to 46				
0.50 - 5	56	46				
0.50 - 30	60	50				

5.5.2 Test Setup

See section 4.1.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels 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. Refer to recorded points and plots below.

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.

5.5.4 Test Result

Please refer to ANNEX A.5.



ANNEX A TEST RESULT

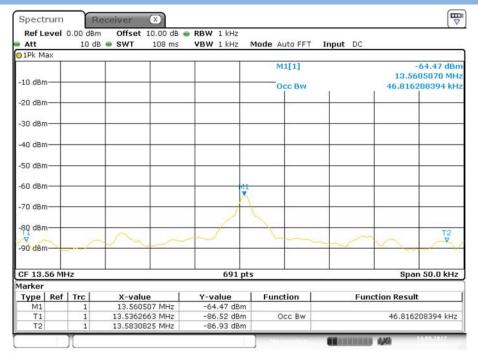
A.1 Emission Bandwidth

Test Data

Frequency	Emission Bandwidth
(MHz)	(kHz)
13.56	46.82

Test plots

Emission Bandwidth



Date: 14.AUG.2017 16:30:18

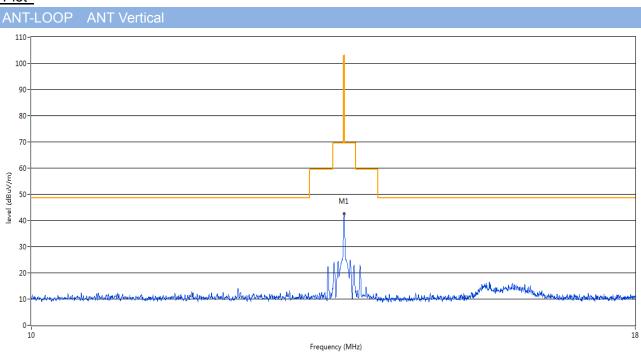


A.2 Field Strength of Fundamental Emissions

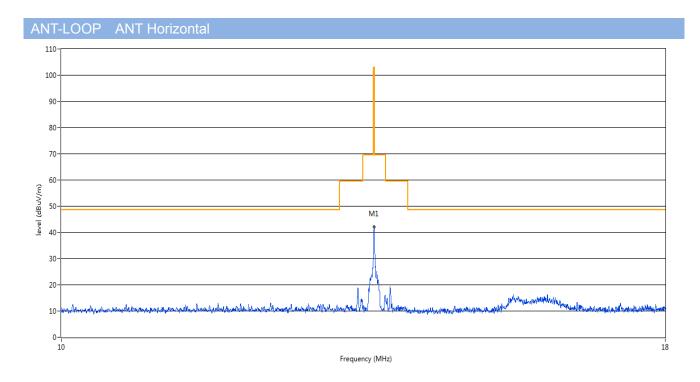
Test Data

Field Strength of Fundamental Emissions Value								
Frequency (MHz) Detector (dBuV/m) Limit @3m Antenna (dBuV/m) (dBuV/m) Antenna (dB)								
13.56	PEAK	42.51	124	Vertical	60.49			
13.56 PEAK 42.10 124 Horizontal 60.90								

Test Plot









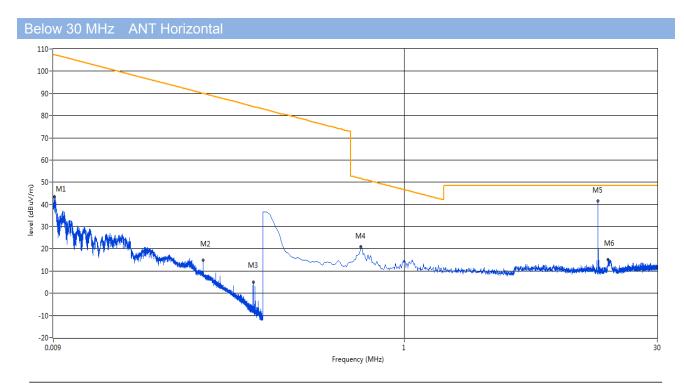
A.3 Radiated Emissions

The Data and Plots (9 kHz ~ 30 MHz)



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	0.009	43.15	10.54	107.3	64.15	Peak	9.00	100	Vertical	Pass
2	0.025	25.49	10.69	98.6	73.11	Peak	3.00	100	Vertical	Pass
3	0.132	5.51	10.38	84.2	78.69	Peak	12.00	100	Vertical	Pass
4	0.553	20.10	10.10	51.7	31.60	Peak	11.00	100	Vertical	Pass
5	13.557	41.50	10.17	48.5	7.00	Peak	9.00	100	Vertical	Pass
6	15.907	16.56	10.18	48.5	31.94	Peak	4.00	100	Vertical	Pass

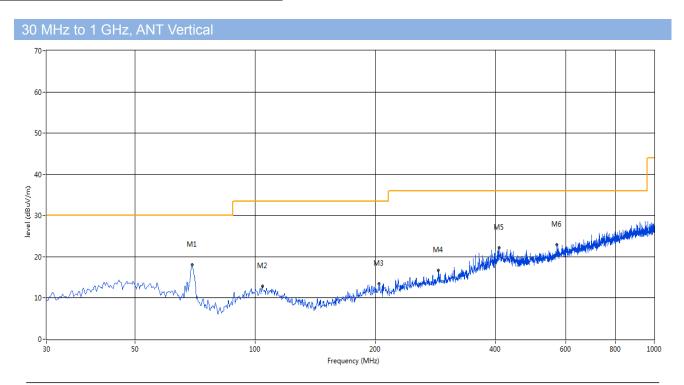




No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	0.009	43.54	10.54	107.4	63.86	Peak	2.00	100	Horizontal	Pass
2	0.067	14.82	10.56	90.0	75.18	Peak	11.00	100	Horizontal	Pass
3	0.132	4.88	10.38	84.2	79.32	Peak	8.00	100	Horizontal	Pass
4	0.560	20.89	10.10	51.6	30.71	Peak	7.00	100	Horizontal	Pass
5	13.557	41.51	10.17	48.5	6.99	Peak	3.00	100	Horizontal	Pass
6	15.534	15.11	10.19	48.5	33.39	Peak	2.00	100	Horizontal	Pass



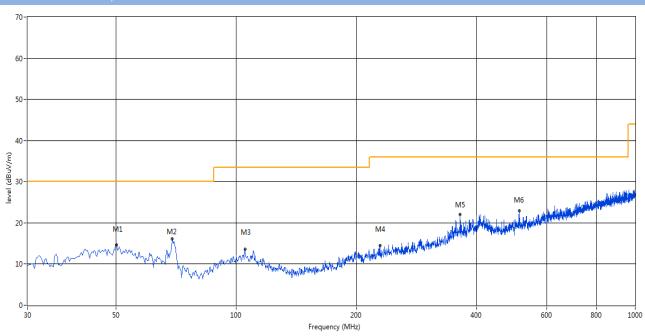
Test Data and Plots (30 MHz ~ 10th Harmonic)



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	69.527	18.07	-17.36	30.0	11.93	Peak	0.00	200	Vertical	Pass
2	104.205	12.87	-14.91	33.5	20.63	Peak	194.00	100	Vertical	Pass
3	204.115	13.44	-15.00	33.5	20.06	Peak	125.00	200	Vertical	Pass
4	288.020	16.74	-12.52	36.0	19.26	Peak	0.00	300	Vertical	Pass
5	408.058	22.26	-9.40	36.0	13.74	Peak	56.00	300	Vertical	Pass
6	570.532	22.90	-6.12	36.0	13.10	Peak	280.00	100	Vertical	Pass



30 MHz to 1 GHz, ANT Horizontal



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	50.127	14.72	-13.33	30.0	15.28	Peak	210.00	300	Horizontal	Pass
2	69.043	16.09	-17.16	30.0	13.91	Peak	159.00	200	Horizontal	Pass
3	105.175	13.58	-14.88	33.5	19.92	Peak	214.00	100	Horizontal	Pass
4	229.092	14.53	-14.12	36.0	21.47	Peak	0.00	200	Horizontal	Pass
5	364.165	22.12	-10.52	36.0	13.88	Peak	131.00	100	Horizontal	Pass
6	511.847	22.87	-7.29	36.0	13.13	Peak	256.00	300	Horizontal	Pass



A.4 Frequency Stability

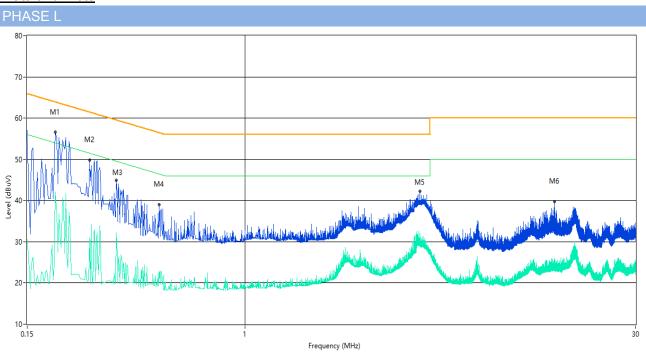
OPERATING FREQUENCY:	13560000 Hz
REFERENCE VOLTAGE:	3.7 V
DEVIATION LIMIT:	±0.01%

VOLTAGE	Test	Conditions			
(%)	Power (VDC)	Temperature (°C)	Frequency(Hz)	Deviation(ppm)	Verdict
100		+25°C(Ref)	13560507	-0.00005044	
100		-10	13560698	-0.00005147	
100		0	13560547	-0.00004034]
100		+10	13560563	-0.00004152]
100	3.7	+20	13560615	-0.00004535]
100	3.7	+25	13560663	-0.00004889	
100		+30	13560458	-0.00003378	Pass
100		+35	13560618	-0.00004558]
100		+40	13560603	-0.00004447]
100		+50	13560706	-0.00005206]
Battery End Point	3.0	+25	13560687	-0.00005066	
115	4.2	+25	13560667	-0.00004919	



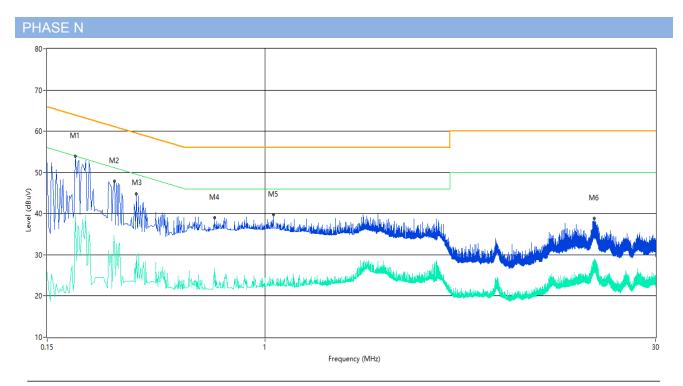
A.5 Conducted Emissions

Test Data and Plots



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)		(dBuV)	(dB)			
1	0.192	56.6	9.39	63.9	7.30	Peak	L Line	Pass
1**	0.192	42.0	9.39	53.9	11.90	AV	L Line	Pass
2	0.258	49.8	9.42	61.5	11.70	Peak	L Line	Pass
2**	0.258	31.0	9.42	51.5	20.50	AV	L Line	Pass
3	0.326	44.9	11.16	59.6	14.70	Peak	L Line	Pass
3**	0.326	32.1	11.16	49.6	17.50	AV	L Line	Pass
4	0.474	39.0	10.95	56.4	17.40	Peak	L Line	Pass
4**	0.474	22.8	10.95	46.4	23.60	AV	L Line	Pass
5	4.586	42.2	10.06	56.0	13.80	Peak	L Line	Pass
5**	4.586	29.0	10.06	46.0	17.00	AV	L Line	Pass
6	14.784	39.8	11.40	60.0	20.20	Peak	L Line	Pass
6**	14.784	25.9	11.40	50.0	24.10	AV	L Line	Pass





No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)		(dBuV)	(dB)			
1	0.192	54.0	9.39	63.9	9.90	Peak	N Line	Pass
1**	0.192	39.8	9.39	53.9	14.10	AV	N Line	Pass
2	0.270	47.9	10.32	61.1	13.20	Peak	N Line	Pass
2**	0.270	32.2	10.32	51.1	18.90	AV	N Line	Pass
3	0.326	44.7	11.16	59.6	14.90	Peak	N Line	Pass
3**	0.326	30.0	11.16	49.6	19.60	AV	N Line	Pass
4	0.644	39.1	10.71	56.0	16.90	Peak	N Line	Pass
4**	0.644	26.7	10.71	46.0	19.30	AV	N Line	Pass
5	1.074	39.7	10.47	56.0	16.30	Peak	N Line	Pass
5**	1.074	23.7	10.47	46.0	22.30	AV	N Line	Pass
6	17.542	38.8	11.12	60.0	21.20	Peak	N Line	Pass
6**	17.542	27.2	11.12	50.0	22.80	AV	N Line	Pass



ANNEX C TEST SETUP PHOTOS

Please refer the document "BL-SZ1760377-AE2.PDF".

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ1760377--AW.PDF".

ANNEX E EUT INTERNAL PHOTOS

Please refer the document "BL-SZ1760377--AI.PDF".

--END OF REPORT--