FCC/ISED

RF

TEST REPORT

ISSUED BY Shenzhen BALUN Technology Co., Ltd.



FOR

GDA401

ISSUED TO ONE WORLD TECHNOLOGIES, INC

1428 PEARMAN DAIRY ROAD ANDERSON SOUTH CAROLINA 29625 USA



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Jan 10, 2018

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(Technical Director)

Date

Jan-10, 2018

Report No .:

BL-SZ17C0098-601

EUT Name: GDA401

Model Name: **GDA401**

Brand Name: RYOBI

Test Standard: 47 CFR Part 15 Subpart C

RSS-Gen (Issue 4, November 2014)

RSS-210 (Issue 9, August 2016)

FCC ID:

ISED Number:

VMZGDA401

9880A-GDA401

Test conclusion:

Test Date:

Date of Issue:

Pass

Dec. 12, 2017 ~ Jan. 10, 2018

Jan. 10, 2018

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Revision History

 Version
 Issue Date

 Rev. 01
 Jan. 04, 2018

 Rev. 02
 Jan. 10, 2018

Initial Issue

Revise the duty cycle on page
22.retest the RE on 3m and
meanwhile update the Annex 4/5 on

page 24/25

Revisions

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1 ADMINISTRATIVE DATA (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,
	Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China
	Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Toot Location	Shonzhan DALLIN Tachnology Co. Ltd
Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,
Address	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.
	The laboratory is a testing organization accredited by FCC as a
A compalitation	accredited testing laboratory. The designation number is CN1196.
Accreditation	The laboratory is a testing organization accredited by American
Certificate	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.
	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 Announce

- (1) The test report reference to the report template version v5.3.
- (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

Applicant	ONE WORLD TECHNOLOGIES, INC
Addross	1428 PEARMAN DAIRY ROAD ANDERSON SOUTH CAROLINA 29625
Address	USA

2.2 Manufacturer

Manufacturer	ET Technology (Wuxi) Co., Ltd.
Address	No.58 Xiqun road, Meicun industrial zone, Wuxi, Jiangsu, China 214112

2.3 Factory Information

Manufacturer	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	GDA401
Model Name	GDA401
Hardware Version	N/A
Software Version	N/A

2.5 Ancillary Equipment

Note: Not applicable.



2.6 Technical Information

Modulation Type	FSK
	☐ Mobile
Product Type	□ Portable □
	☐ Fix Location
Operating Frequency	433.92 MHz
Antenna Type	PCB Antenna
Antenna Gain	0 dBi

All channel was listed on the following table:

Channel number	Freq.(MHz)
1	433.92

Note: The above EUT information in section 2.4 and 2.6 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.



3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
	47 CFR Part 15,	
1	Subpart C	Intentional Radiators
	(10-1-16 Edition)	
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless
	ANSI C03. 10-2013	Devices
	RSS-Gen	
3	(Issue 4, Nov.	General Requirements for Compliance of Radio Apparatus
	2014)	
	RSS-210	
4	(Issue 9, August	Licence-Exempt Radio Apparatus:Category I Equipments
	2016)	

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203		Pass Note
2	Conducted Emission	15.207	ANNEX A.1	Pass
3	Bandwidth	15.231(c)	ANNEX A.2	Pass
4	Duty Cycle	15.35	ANNEX A.3	Pass
5	Field Strength of Fundamental	15.231(b)	ANNEX A.4	Pass
3	Emissions	13.231(0)	ANNLA A.4	
6	Radiated Emissions	15.209	ANNEX A.5	Pass
	Natiated Effissions	15.231(b)	ANNLX A.3	F d 5 5
7	Transmitting Time	15.231(a)	ANNEX A.6	Pass
Note: Please refer to section 5.1				



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 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Spectrum Analyzer ROHDE&SCHWARZ		103118	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	2017.09.07	2018.09.06
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		
DC Power Supply	DC Power Supply ROHDE&SCHWARZ		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	VAMP 9243	9243-556	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	2016.08.09	2018.08.08
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.24	2019.02.23
Shielded Enclosure	ChangNing	CN-130701	130703		



4.3 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

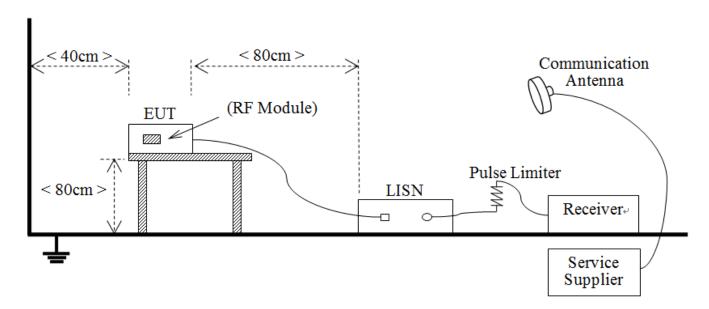
This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Occupied Channel Bandwidth	±4%
RF output power, conducted	±1.4 dB
Power Spectral Density, conducted	±2.5 dB
Unwanted Emissions, conducted	±2.8 dB
All emissions, radiated	±5.4 dB
Temperature	±1°C
Humidity	±4%



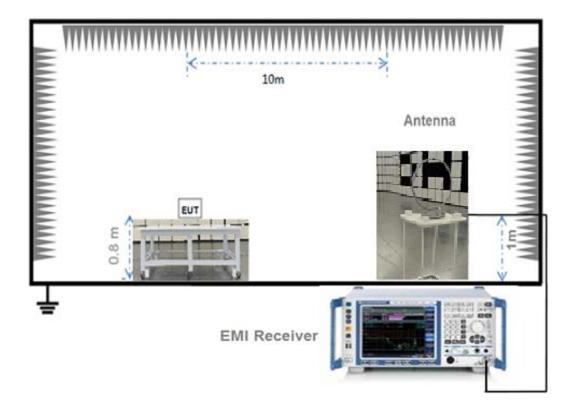
4.4 Description of Test Setup

4.4.1 For AC Power Supply Port Test



(Diagram 1)

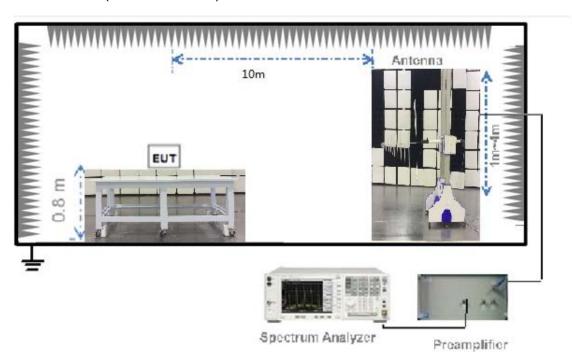
4.4.2 For Radiated Test (Below 30 MHz)



(Diagram 2)

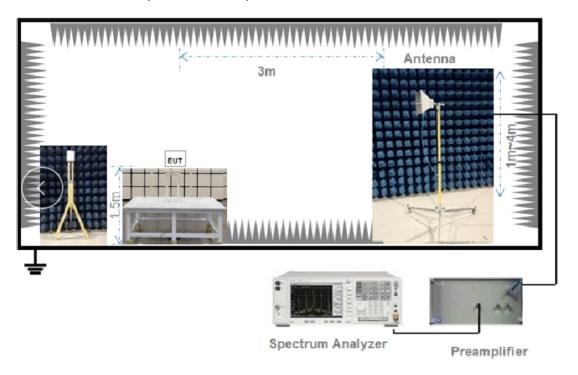


4.4.3 For Radiated Test (30 MHz-1 GHz)



(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)



5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

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 embedded in the	An embedded-in antenna design is used.
product.	

Reference Documents	Item
Photo	COLUMN TO THE PART OF THE PART

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 Conducted Emission

5.2.1 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	

5.2.2 Test Setup

See section 4.4.1 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.2.3 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.

5.2.4 Test Result

Please refer to ANNEX A.1.



5.3 20 dB Bandwidth

5.3.1 Limit

FCC §15.231

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

5.3.2 Test Setup

See section 4.4.3 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth

RBW = 100 kHz

VBW ≥ 300 kHz

Sweep = auto

Detector function = peak

Trace = max hold

5.3.4 Test Result

Please refer to ANNEX A.2.



5.4 Field Strength of Fundamental Emissions and Radiated Emissions

5.4.1 Limit

FCC §15.231 & §15.209

According to FCC section 15.231(b), In addition to the provisions of §15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency	Field strength of fundamental	Field strength of spurious			
(MHz)	(microvolts/meter)	emissions (microvolts/meter)			
40.66-40.70	2250	225			
70-130	1250	125			
130-174	¹ 1250 to 3750	125 to 375			
174-260	3750	375			
260-470	¹ 3750 to 12500	375 to 1250			
Above 470	12500	1250			
¹ Linear interpolations.					

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:

- 1. 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.
- For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.4.2 Test Setup

See section 4.4.2 to 4.4.4 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The measurement frequency range is from 30 MHz 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 ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.4.4 Test Result

Please refer to ANNEX A.4 & A.5.



5.5 Transmitting Time

5.5.1 Limit

- (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.

5.5.2 Test Setup

See section 4.4.3 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The EUT transmitter was activated, the spectrum analyzer single sweep was triggered while a command on the EUT was activated and plots were captured

5.5.4 Test Result

Please refer to ANNEX A.6.



ANNEX A TEST RESULT

A.1 Conducted Emission

Note: Not Applicable.



A.2 Bandwidth

Test Data

Frequency (MHz)	99% OBW (KHz)	20 dB Bandwidth (kHz)	20 dB Bandwidth Limit (kHz)	Verdict
433.92	22.42	50.14	433945*0.25%=1084.9	Pass

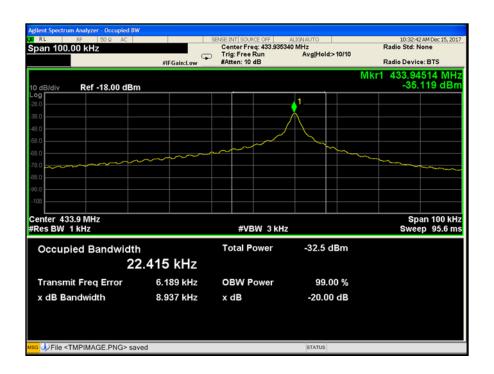
Test plots

20 dB Bandwidth



99% Bandwidth







A.3 Duty cycle

Test Data and Plot

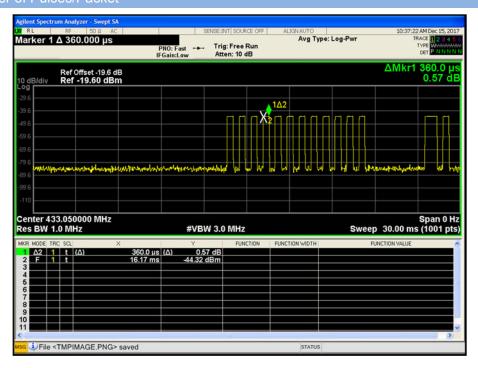
Data Transmissions	Number of pulses	
The number of pulses Group	1	
Long pulse duration 0.810 ms		46
Short pulse duration	0.360 ms/0.390ms	12/20
Total transmissions duration	0.360*12+0.810*46+0.390*20=49.38	
Total transmissions duration	ms	
On time within 100 msec	1*49.38ms=49.38ms	
Duty cycle correction factor	10*log(49.38/100)=-3.06dB	

Number of Packet/100 ms

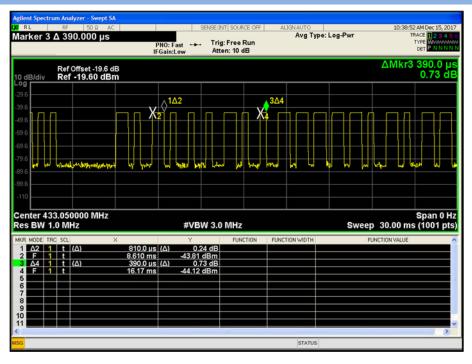




Number of Pulses/Packet

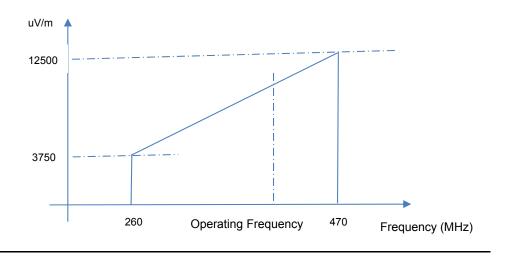


Long Pulse Duration





A.4 Field Strength of Fundamental Emissions



The Field Strength of Fundamental Emissions (Operating Frequency) is: $3750 \text{ uV/m} = 20 \log (3750) \text{ dBuV/m} = 71.48 \text{ dBuV/m}$ $12500 \text{ uV/m} = 20 \log (12500) \text{ dBuV/m} = 81.94 \text{ dBuV/m}$

Test Data

Field Strength of Fundamental Emissions and Field strength of spurious emissions Value						
Operating Frequency (MHz)	Field Strength (dBuV/m)	Detector	Limit @3m (dBuV/m)	Margin (dB)	Antenna	
	61.71	PEAK	100.8	39.09	Vertical	
434.005	65.58	PEAK	100.8	35.22	Horizontal	
434.003	58.65	AVERAGE	80.8	22.15	Vertical	
	62.52	AVERAGE	80.8	18.28	Horizontal	
	41.48	PEAK	80.8	39.32	Vertical	
867.838	46.82	PEAK	80.8	33.98	Horizontal	
007.000	38.42	AVERAGE	60.8	22.38	Vertical	
	43.76	AVERAGE	60.8	17.04	Horizontal	



A.5 Radiated Emissions

Note ¹: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note ²: The verdict please refer to the A.3 field strength of fundamental emissions and field strength of spurious emissions value.

Test Data (30 MHz ~ 10th Harmonic)

30 MHz to 1 GHz, ANT V										
No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	39.215	22.63	-23.80	40.0	17.37	Peak	23.00	100	Vertical	Pass
2	62.980	15.51	-24.03	40.0	24.49	Peak	41.00	100	Vertical	Pass
3	194.900	12.90	-23.27	43.5	30.60	Peak	205.00	100	Vertical	Pass
4	350.828	18.00	-17.98	46.0	28.00	Peak	41.00	100	Vertical	Pass
5	434.005	61.71	-16.32	46.0	-15.71	Peak	281.00	100	Vertical	N/A Note 2
6	867.838	41.48	-7.63	46.0	4.52	Peak	212.00	100	Vertical	N/A Note 2

30 MHz to 1 GHz, ANT H											
No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Heigh	ANT	Verdict	
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	t (cm)			
1	48.915	13.26	-22.38	40.0	26.74	Peak	180.00	100	Horizontal	Pass	
2	103.235	13.01	-23.39	43.5	30.49	Peak	256.00	100	Horizontal	Pass	
3	192.960	13.13	-23.56	43.5	30.37	Peak	1.00	100	Horizontal	Pass	
4	340.885	17.51	-18.23	46.0	28.49	Peak	359.00	100	Horizontal	Pass	
5	434.005	65.58	-16.32	46.0	-19.58	Peak	111.00	100	Horizontal	N/A Note 2	
6	867.838	46.82	-7.63	46.0	-0.82	Peak	23.00	100	Horizontal	N/A Note 2	



1 GHz to 6 GHz, ANT V										
No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	1302.000	44.80	-11.01	74.0	29.20	Peak	308.00	100	Vertical	Pass
2	1735.500	44.63	-10.70	74.0	29.37	Peak	317.00	100	Vertical	Pass
3	2170.000	50.30	-6.95	74.0	23.70	Peak	344.00	100	Vertical	Pass
4	2897.500	49.21	-1.74	74.0	24.79	Peak	35.00	100	Vertical	Pass
5	3978.000	45.73	-4.66	74.0	28.27	Peak	131.00	100	Vertical	Pass
6	5514.750	49.43	-0.55	74.0	24.57	Peak	299.00	100	Vertical	Pass

1 GHz to 6 GHz, ANT H										
No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdi
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		ct
1	1302.000	51.79	-11.01	74.0	22.21	Peak	150.00	100	Horizontal	Pass
2	1735.500	53.35	-10.70	74.0	20.65	Peak	356.00	100	Horizontal	Pass
3**	2169.500	44.80	-6.95	54.0	9.20	AV	317.00	100	Horizontal	Pass
3	2169.500	55.76	-6.95	74.0	18.24	Peak	317.00	100	Horizontal	Pass
4	2462.500	52.40	-5.77	74.0	21.60	Peak	0.00	100	Horizontal	Pass
5	4023.000	44.54	-4.20	74.0	29.46	Peak	360.00	100	Horizontal	Pass
6	5145.750	47.57	-1.38	74.0	26.43	Peak	356.00	100	Horizontal	Pass

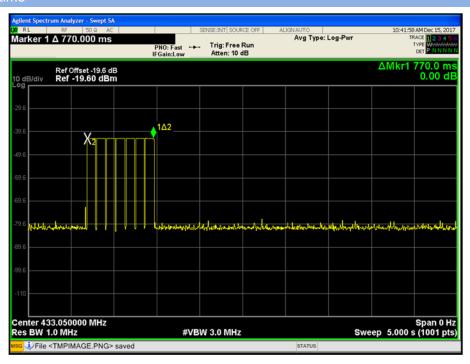


A.6 Transmitter Time

Test Data and Plot

The active time is less than 1 seconds

Active time





ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ17C0098-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ17C0098-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ17C0098-AI.PDF".

--END OF REPORT--