

# **TEST REPORT**

**Applicant:** BCS Automotive Interface Solutions, s.r.o.

Address: Jana Nohy 2048 256 01 Benesov

**Equipment Type:** Wireless Smartphone Connection

Model Name: WSPC2

Brand Name: BCS

FCC ID: 2BCDK-WSPC2

Test Standard: 47 CFR Part 15 Subpart C

ANSI C63.10-2013

Sample Arrival Date: Jul. 17, 2023

**Test Date:** Jul. 24, 2023 - Jul. 26, 2023

Date of Issue: Aug. 08, 2023

**ISSUED BY:** 

Shenzhen BALUN Technology Co., Ltd.

Tested by: Fei Liu Checked by: Xia Long Approved by: Liao Jianming

(Technical Director)

In time

Fei Liu Xia Long



# **Revision History**

Version Issue Date Revisions

Rev. 01 Aug. 08, 2023 Initial Issue

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# 1 GENERAL INFORMATION

# 1.1 Test Laboratory

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

# 1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.	
	☑ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road,	
	Nanshan District, Shenzhen, Guangdong Province, P. R. China	
Location	□ 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	
A consolitation Contificate	The laboratory is a testing organization accredited by FCC as a	
Accreditation Certificate	accredited testing laboratory. The designation number is CN1196.	



# **2 PRODUCT INFORMATION**

# 2.1 Applicant Information

Applicant	BCS Automotive Interface Solutions, s.r.o.
Address	Jana Nohy 2048 256 01 Benesov

# 2.2 Manufacturer Information

Manufacturer	BCS Automotive Interface Solutions, s.r.o.
Address	Jana Nohy 2048 256 01 Benesov

# 2.3 General Description for Equipment under Test (EUT)

EUT Name	Wireless Smartphone Connection	
Model Name Under Test	WSPC2	
Series Model Name	N/A	
Description of Model	NI/Λ	
name differentiation	N/A	
Hardware Version	N/A	
Software Version	N/A	
Dimensions (Approx.)	N/A	
Weight (Approx.)	N/A	



# 2.4 Ancillary Equipment

Note: Not applicable.

# 2.5 Technical Information

Network and Wireless	Oi:
connectivity	QI

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

Operating Frequency	127.58-128.01kHz		
Product Type	☐ Portable		
	☐ Fix Location		
Antenna Type	Coil Antenna		
About Product	The EUT support the Qi technology, and they have the same operating		
About Product	frequency.		



# **SUMMARY OF TEST RESULTS**

# 3.1 Test Standards

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

### 3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Result
1	Antenna Requirement	15.203	Pass Note1	
2	Radiated Emission	15.209,15.215(b)	Pass	Annex A.1
3	Conducted Emission, AC Ports	15.207	N/A Note2	Annex A.2
4	20 dB Bandwidth	15.215(c)	Pass	Annex A.3

Note1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note2: The EUT is used in vehicle environment. So the Conducted Emission, AC Ports test is not applicable.

# 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)	4.28 dB
Radiated 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

Relative Humidity	30% to 60%					
Atmospheric Pressure	100 kPa to 102 kPa					
Temperature	NT (Normal Temperature)	+22℃ to +25℃				
Working Voltage of the EUT	NV (Normal Voltage)	24V				

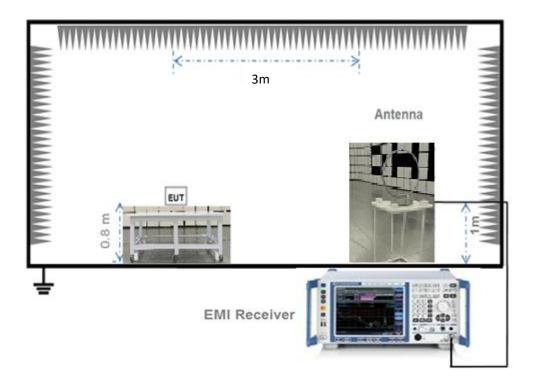
# 4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2022.09.09	2023.09.08	
Test Antenna-						
Loop(9 kHz-30	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15	
MHz)						
Anechoic	EMC Electronic Co.,	20.10*11.60*7	130	2021.08.15	2024.08.14	
Chamber	Ltd	.35m	130	2021.06.15		
Amplifier	COM-MV	ZT30-1000M	B201805455	2022.12.07	2023.12.06	
(30-1GHz)	COIVI-IVIV	Z130-1000W	8	2022.12.07	2023.12.00	
Test Antenna-	SCHWARZBECK	VULB 9168	9168-01162	2020.08.12	2022 00 11	
Bi-Log	SUNWARZBEUK	VOLD 9100	9100-01102	2020.06.12	2023.08.11	
Anechoic	EMC TECHNOLOGY	20.1m*11.6m*	130	2021.08.15	2024 09 44	
Chamber	LTD	7.35m	130	2021.08.13	2024.08.14	



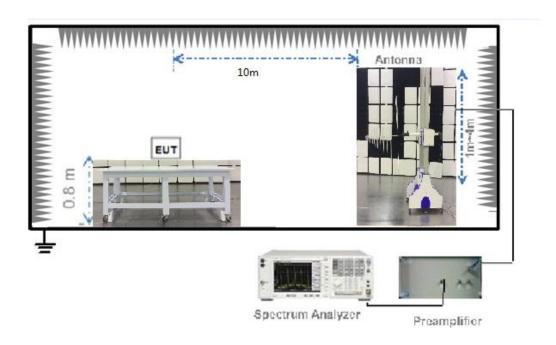
# 4.3 Test Setups

# Test Setup 1



For Radiated Emission Test (Below 30 MHz))

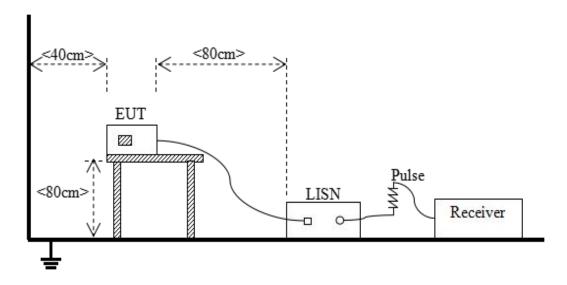
### Test Setup 2



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



# Test Setup 3



(For Conducted Emission, AC Ports Test)



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# 5 TEST ITEMS

# 5.1 Antenna Requirements

#### 5.1.1 Relevant Standards

FCC §15.203

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.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.



# 5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

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

Reference Documents	Item						
Photo	Please refer EUT internal photos.						



# **5.2 Emission Tests**

#### 5.2.1 Radiated Emission

#### 5.2.1.1 Limit

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

#### 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.
- 3) For above 1000 MHz, limit field strength of harmonics: 54 dB $\mu$ V/m@3 m (AV) and 74 dB $\mu$ V/m@3 m (PK)
- 4) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). For example, at the frequency 9 kHz, limit @10m =  $20*\log (2400/f) + 40\log (dlimit/dmeasure)$  where limit = 300m, dmeasure=10m. limit @ $10m = 20*\log (2400/9) + 40\log (300/10) = <math>107.5 (dB\mu V/m)$ .
- 5) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided, When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements). For example, at the frequency 30 MHz, limit @10m =  $20*\log (100) + 20\log (dlimit/dmeasure)$  where limit = 3m, dmeasure=10m. limit @10m =  $20*\log (100) + 20\log (3/10) = 29.5 (dBµV/m)$ .

#### 5.2.1.2 Test Setup

Refer to 4.3 section (test setup 1 to test setup 2) for radiated emission test, the photo of test setup please refer to ANNEX B.

### 5.2.1.3 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.



### 5.2.1.4 Test Result

Please refer to ANNEX A.1.

#### NOTE:

1. Results  $(dB\mu V/m)$  = Reading  $(dB\mu V/m)$  + 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.



#### 5.2.2 Conducted Emission

#### 5.2.2.1 Test Limit

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

#### NOTE:

- 1) The limit is applicable to Class B ITE.
- 2) The lower limit shall apply at the band edges.
- 3) The limit decreases linearly with the logarithm of the frequency in the range 0.15 0.50 MHz.

# 5.2.2.2 Test Setup

Refer to 4.3 section test (test setup 3) for conducted emission, the photo of test setup please refer to ANNEX B.

#### 5.2.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50  $\Omega$ /50  $\mu$ 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.

### 5.2.2.4 Test Result

Please refer to ANNEX A.2.

#### NOTE:

1. Results  $(dB\mu V)$  = Reading  $(dB\mu V)$  + 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.



#### 5.2.3 20 dB Bandwidth

#### 5.2.3.1 Limit

FCC §15.215(c)

The 20 dB bandwidth is known as the 99% emission bandwidth, or 20 dB bandwidth (10\*log1%=20 dB) taking the total RF output power.

### 5.2.3.2 Test Setup

Refer to 4.3 section test (test setup 1) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.2.3.3 Test Procedure

Use the following spectrum analyzer settings:

Span = between 2 and 5 times the OBW

RBW =  $1\%\sim5\%$  of the OBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

### 5.2.3.4 Test Result

Please refer to ANNEX A.3.

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# ANNEX A TEST RESULTS

### A.1 Radiated Emission

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

Note <sup>2</sup>: 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 <sup>3</sup>: All Radiated Emissions tests were performed in X, Y, Z axis direction of EUT. And only the worst axis test condition was recorded in this test report.

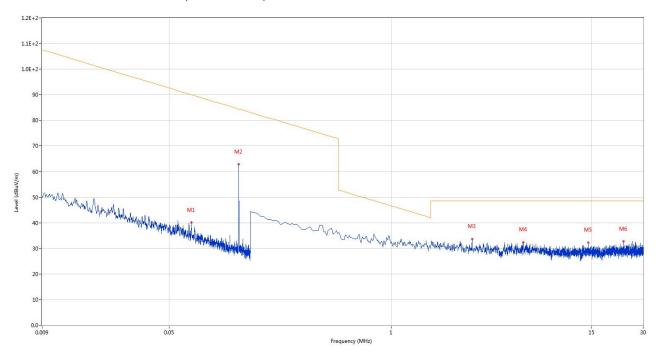
Note <sup>4</sup>: This frequency which near 0.128 MHz with circle should be ignored because they are Qi carrier frequencies.



### Qi Test Data and Plots

### The Standby mode

# A.1.1 Test Antenna LOOP, EUT X axis, 9 kHz –30 MHz

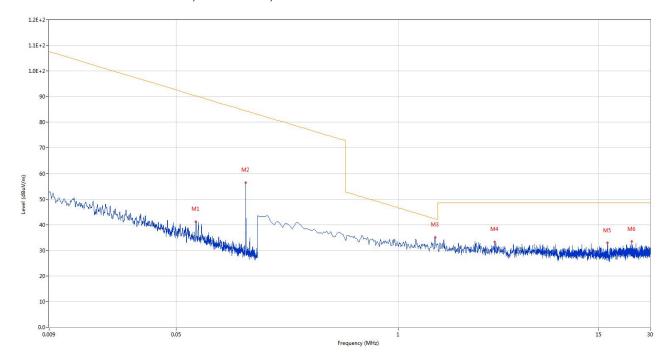


No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	0.067	40.07	20.18	90.0	49.93	Peak	232.00	100	Vertical	Pass
2	0.128	62.87	20.15	84.4	21.53	Peak	4.00	100	Vertical	N/A
3	2.978	33.71	20.51	48.5	14.79	Peak	132.00	100	Vertical	Pass
4	5.933	32.48	20.81	48.5	16.02	Peak	1.00	100	Vertical	Pass
5	14.277	32.26	20.86	48.5	16.24	Peak	356.00	100	Vertical	Pass
6	23.052	32.74	21.13	48.5	15.76	Peak	137.00	100	Vertical	Pass



### The Load Test Mode

### A.1.2 Test Antenna LOOP, EUT X axis, 9 kHz –30 MHz

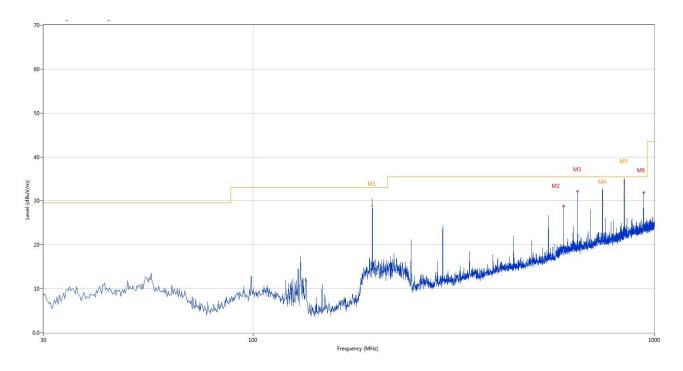


No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	0.065	41.19	20.18	90.3	49.11	Peak	63.00	100	Vertical	Pass
2	0.128	56.42	20.15	84.4	27.98	Peak	123.00	100	Vertical	N/A
3	1.650	35.10	20.46	42.3	7.20	Peak	198.00	100	Vertical	Pass
4	3.687	33.33	20.63	48.5	15.17	Peak	6.00	100	Vertical	Pass
5	16.806	32.85	20.93	48.5	15.65	Peak	117.00	100	Vertical	Pass
6	23.455	33.42	21.11	48.5	15.08	Peak	166.00	100	Vertical	Pass



# The Standby mode

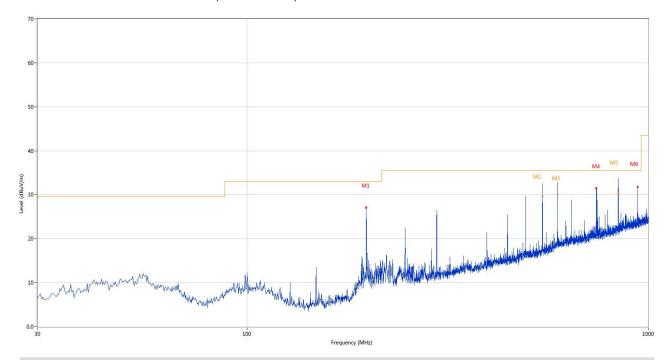
### A.1.3 Test Antenna Vertical, EUT X axis, 30 MHz – 1 GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	198.130	30.64	-27.81	33.0	2.36	Peak	0.00	105	Vertical	N/A
1*	198.130	28.92	-27.81	33.0	4.08	QP	0.00	105	Vertical	Pass
2	594.156	28.79	-18.11	35.5	6.71	Peak	279.00	100	Vertical	Pass
3	643.614	32.17	-17.26	35.5	3.33	Peak	199.00	200	Vertical	Pass
4	742.930	31.58	-15.32	35.5	3.92	Peak	0.00	197	Vertical	N/A
4*	742.930	29.37	-15.32	35.5	6.13	QP	0.00	197	Vertical	Pass
5	841.930	35.01	-13.79	35.5	0.49	Peak	16.00	200	Vertical	N/A
5*	841.930	31.31	-13.79	35.5	4.19	QP	16.00	200	Vertical	Pass
6	940.602	31.87	-12.04	35.5	3.63	Peak	186.00	200	Vertical	Pass



### A.1.4 Test Antenna Horizontal, EUT X axis, 30 MHz – 1 GHz

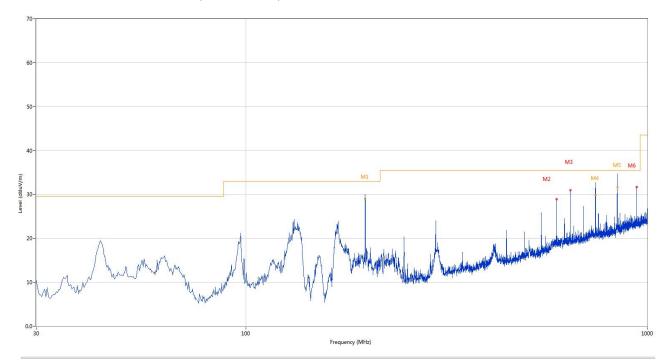


No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	198.010	27.12	-27.81	33.0	5.88	Peak	242.00	200	Horizontal	Pass
2	544.807	31.38	-19.36	35.5	4.12	Peak	251.00	194	Horizontal	N/A
2*	544.807	29.63	-19.36	35.5	5.87	QP	251.00	194	Horizontal	Pass
3	594.344	31.81	-18.11	35.5	3.69	Peak	319.00	147	Horizontal	N/A
3*	594.344	30.09	-18.11	35.5	5.41	QP	319.00	147	Horizontal	Pass
4	742.772	31.44	-15.32	35.5	4.06	Peak	338.00	100	Horizontal	Pass
5	842.050	32.72	-13.81	35.5	2.78	Peak	248.00	103	Horizontal	N/A
5*	842.050	30.22	-13.81	35.5	5.28	QP	248.00	103	Horizontal	Pass
6	940.845	31.80	-12.07	35.5	3.70	Peak	254.00	100	Horizontal	Pass



### The Load Test Mode

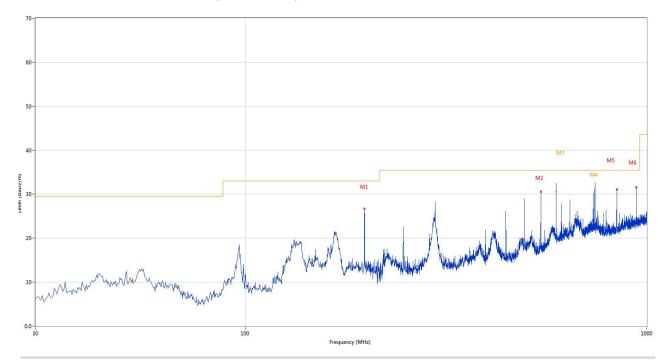
### A.1.5 Test Antenna Vertical, EUT X axis, 30 MHz – 1 GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	198.183	30.57	-27.81	33.0	2.43	Peak	0.00	108	Vertical	N/A
1*	198.183	29.06	-27.81	33.0	3.94	QP	0.00	108	Vertical	Pass
2	594.399	28.93	-18.11	35.5	6.57	Peak	225.00	100	Vertical	Pass
3	643.857	30.98	-17.25	35.5	4.52	Peak	195.00	200	Vertical	Pass
4	743.165	32.47	-15.33	35.5	3.03	Peak	16.00	200	Vertical	N/A
4*	743.165	29.82	-15.33	35.5	5.68	QP	16.00	200	Vertical	Pass
5	842.249	34.11	-13.81	35.5	1.39	Peak	189.00	192	Vertical	N/A
5*	842.249	31.64	-13.81	35.5	3.86	QP	189.00	192	Vertical	Pass
6	941.330	31.67	-12.12	35.5	3.83	Peak	211.00	200	Vertical	Pass



### A.1.6 Test Antenna Horizontal, EUT X axis, 30 MHz – 1 GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	198.010	26.71	-27.81	33.0	6.29	Peak	238.00	200	Horizontal	Pass
2	544.941	30.53	-19.35	35.5	4.97	Peak	86.00	200	Horizontal	Pass
3	594.519	32.55	-18.11	35.5	2.95	Peak	193.00	121	Horizontal	N/A
3*	594.519	30.59	-18.11	35.5	4.91	QP	193.00	121	Horizontal	Pass
4	743.130	31.88	-15.35	35.5	3.62	Peak	317.00	100	Horizontal	N/A
4*	743.130	29.22	-15.35	35.5	6.28	QP	317.00	100	Horizontal	Pass
5	842.172	31.04	-13.81	35.5	4.46	Peak	65.00	100	Horizontal	Pass
6	941.087	31.53	-12.10	35.5	3.97	Peak	258.00	100	Horizontal	Pass



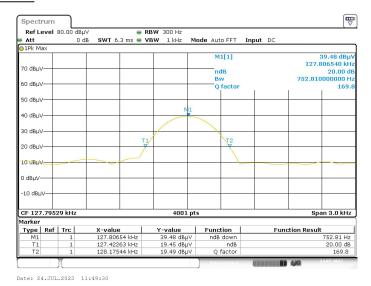
# A.2 Conducted Emission

Note: Not applicable.

### A.3 20 dB Bandwidth

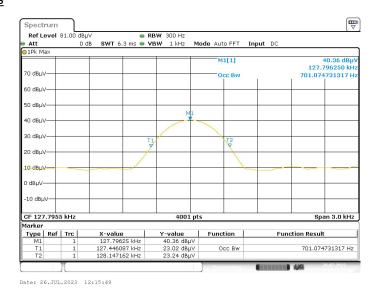
#### Qi Test Data and Plots

Mode 1: The Standby mode



# 99% Occupied Bandwidth

### Qi Test Data and Plots



Tel: +86-755-66850100

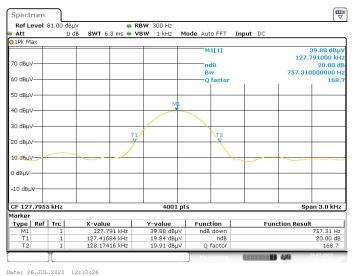
E-mail: qc@baluntek.com

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Web: www.titcgroup.com

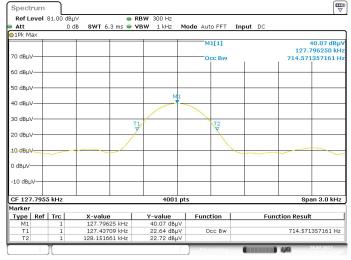
Template No.: TRP-FCC 15.215 (2023-02-24)

### Mode 2: The Load Test Mode



# 99% Occupied Bandwidth

### Qi Test Data and Plots



Date: 26.JUL.2023 12:11:36



# ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-EC2360031-AE-2.PDF".

# ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-EC2360031-AW.PDF".

# ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-EC2360031-AI.PDF".

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# 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.
- 3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
- 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.
- 6. This report shall not be partially reproduced without the written permission of the laboratory.
- 7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

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