

TEST REPORT

Reference No. : WTS19S05031901W003
FCC ID : 2ALCVERX300
Applicant..... : Emerson Radio Corp.
Address..... : 35 Waterview Blvd, Parsippany, New Jersey, 07054, United States
Manufacturer : Shenzhen YouLa Electronics Co., Ltd.
Address..... : 11F, Building A, JianYu No 2 Industrial Area, XiXiang Street, Bao'an District, Shenzhen, China
Product..... : Bluetooth Speaker with Wireless Charger, Phone Rest that Extends and Rotates, USB Charger, FM Radio, Alarm Clock and 10 Watt Stereo
Model(s) : ER-X300, ER-X301, ER-X302, S101022, S101023, S101024
Brand(s) : Emerson, Scott
Standards..... : FCC Part 15 subpart C
Date of Receipt sample : 2019-05-20
Date of Test : 2019-05-20 to 2019-06-10
Date of Issue..... : 2019-06-10
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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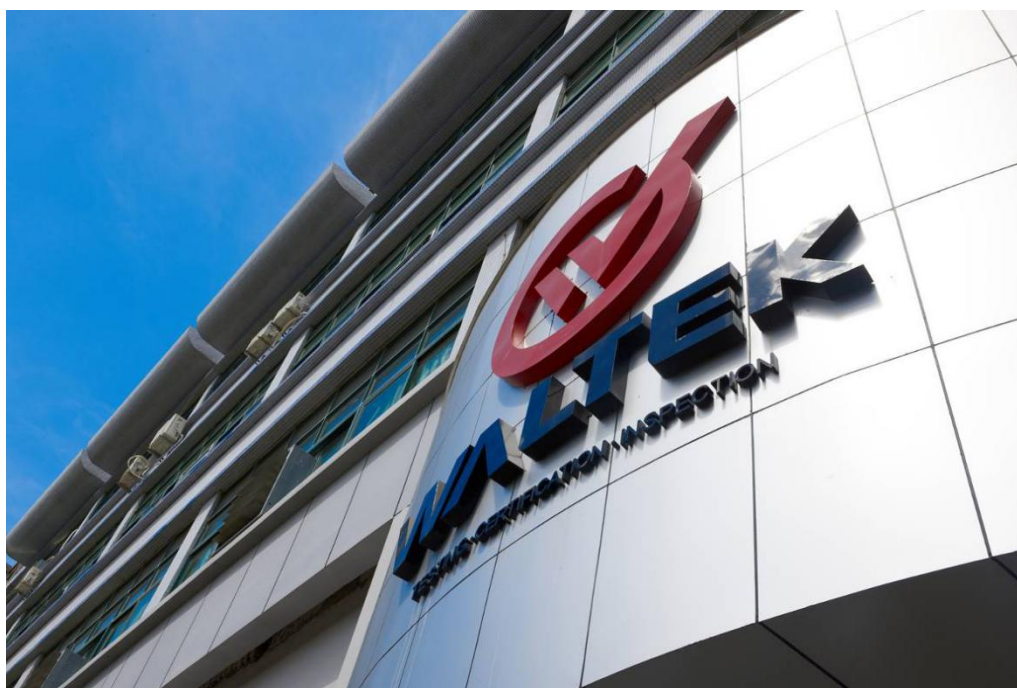


Philo Zhong

Philo Zhong / Manager

1. Laboratories Introduction

Waltek Services (Shenzhen) Co., Ltd is a professional third-party testing and certification laboratory with multi-year product testing and certification experience, established strictly in accordance with ISO/IEC 17025 requirements, and accredited by ILAC (International Laboratory Accreditation Cooperation) member. A2LA (American Association for Laboratory Accreditation, the certification number is 4243.01) of USA, CNAS (China National Accreditation Service for Conformity Assessment, the registration number is L3110) of China. Meanwhile, Waltek has got recognition as registration and accreditation laboratory from EMSD (Electrical and Mechanical Services Department), and American Energy star, FCC (The Federal Communications Commission), CEC (California energy efficiency), ISED (Innovation, Science and Economic Development Canada). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as Intertek (ETL-SEMKO), TÜV Rheinland, TÜV SÜD, etc.



Waltek Services (Shenzhen) Co., Ltd is one of the largest and the most comprehensive third party testing laboratory in China. Our test capability covered four large fields: safety test. ElectroMagnetic Compatibility (EMC), and energy performance, wireless radio. As a professional, comprehensive, justice international test organization, we still keep the scientific and rigorous work attitude to help each client satisfy the international standards and assist their product enter into globe market smoothly.

1.1 Test Facility

A. Accreditations for Conformity Assessment (International)

11. Requirements for Conformity Assessment (International)			
Country/Region	Scope Covered By	Scope	Note
USA	ISO/IEC 17025	FCC ID \ SDOC	1
Canada		IC ID \ VOC	2
Japan		MIC-T \ MIC-R	-
Europe		EMCD \ RED	-
Taiwan		NCC	-
Hong Kong		OFCA	-
Australia		RCM	-
India		WPC	-
Thailand		NTC	-
Singapore		IDA	-
Note:			
1. FCC Designation No.: CN1201. Test Firm Registration No.: 523476.			
2. ISED CAB identifier: CN0013.			

B.TCBs and Notify Bodies Recognized Testing Laboratory.

Recognized Testing Laboratory of ...	Notify body number
TUV Rheinland	Optional.
Intertek	
TUV SUD	
SGS	
Phoenix Testlab GmbH	0700
Element Materials Technology Warwick Ltd.	0891
Timco Engineering, Inc.	1177
Eurofins Product Service GmbH	0681

2. Contents

	Page
COVER PAGE.....	1
1. LABORATORIES INTRODUCTION.....	2
1.1 TEST FACILITY	3
2. CONTENTS	4
3. REVISION HISTORY	5
4. GENERAL INFORMATION.....	6
4.1 GENERAL DESCRIPTION OF E.U.T.....	6
4.2 DETAILS OF EUT	6
5. EQUIPMENT USED DURING TEST	7
5.1 EQUIPMENTS LIST	7
5.2 DESCRIPTION OF AUXILIARY EQUIPMENT	7
5.3 TEST EQUIPMENT CALIBRATION	7
6. RF EXPOSURE.....	8
6.1 TEST SETUP	8
6.2 THE PROCEDURES / LIMIT	9
6.3 TEST DATA	9
6.4 EUT COUPLING SURFACE AREA	11
7. PHOTOGRAPHS-TEST SETUP	12

3. Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTS19S05031901W003	2019-05-20	2019-05-20 to 2019-06-10	2019-06-10	original	-	Valid

4. General Information

4.1 General Description of E.U.T

Product:	Bluetooth Speaker with Wireless Charger, Phone Rest that Extends and Rotates, USB Charger, FM Radio, Alarm Clock and 10 Watt Stereo
Model(s):	ER-X300, ER-X301, ER-X302, S101022, S101023, S101024
Model Difference:	Only the model numbers, brands and LED colors are different. The others are all the same. The model ER-X300 is the tested sample.
Type of Modulation:	ASK
Frequency Range:	0.112~0.205MHz
Antenna installation:	Coil Antenna

4.2 Details of EUT

Ratings:	Input: DC 5V 2.4A USB Output: DC 5V 1A
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5. Equipment Used during Test

5.1 Equipments List

RF EXPOSURE						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Protection Network	SCHWARZBECK	VDHH9502	9502-103	2019-04-10	2020-04-09
2	EMI Test Receiver	R&S	ESCI	101528	2019-04-10	2020-04-09

5.2 Description of Auxiliary Equipment

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

5.3 Test Equipment Calibration

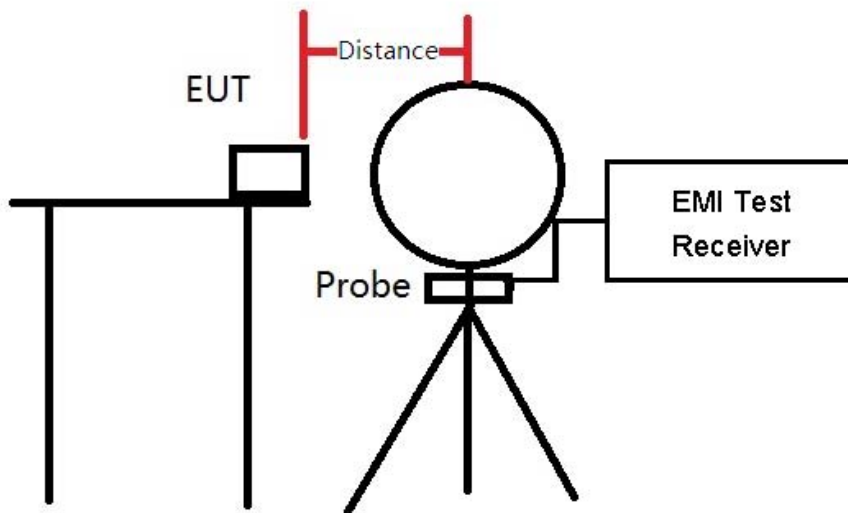
All the test equipments used are valid and calibrated by GUANG ZHOU GRG METROLOGY & TEST CO., LTD. address is No.163, Pingyun Rd. West of Huangpu Ave, Tianhe District, Guangzhou, Guangdong, China.

6. RF Exposure

Test Requirement:

Environmental evaluation and exposure limit according to FCC CFR 47 Part 1.1307(c) and (d), 1.1310. According KDB680106 D01 RF Exposure Wireless Charging Apps v03

6.1 Test Setup



These testing were performed at test configuration as above diagram.

EUT was placed on a table, and the measure probe was placed at a measurement distance of 20cm from the above of EUT to the center of the probe and 15cm from the other directions of EUT to the center of the probe.

The EUT was put in different directions (Left, Right, Front, Rear, Top and Bottom) to obtain the maximum reading.

6.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

6.3 Test Data

H-Field

Test Side	Separation Distance(cm)	H-Field Measured(A/m)	H-Field Limit(A/m)
Left	15	0.19	1.63
Right	15	0.12	1.63
Front	15	0.16	1.63
Rear	15	0.21	1.63
Top	20	0.47	1.63
Bottom	15	0.31	1.63
Margin Limit (%)		28.55%	

E-Field

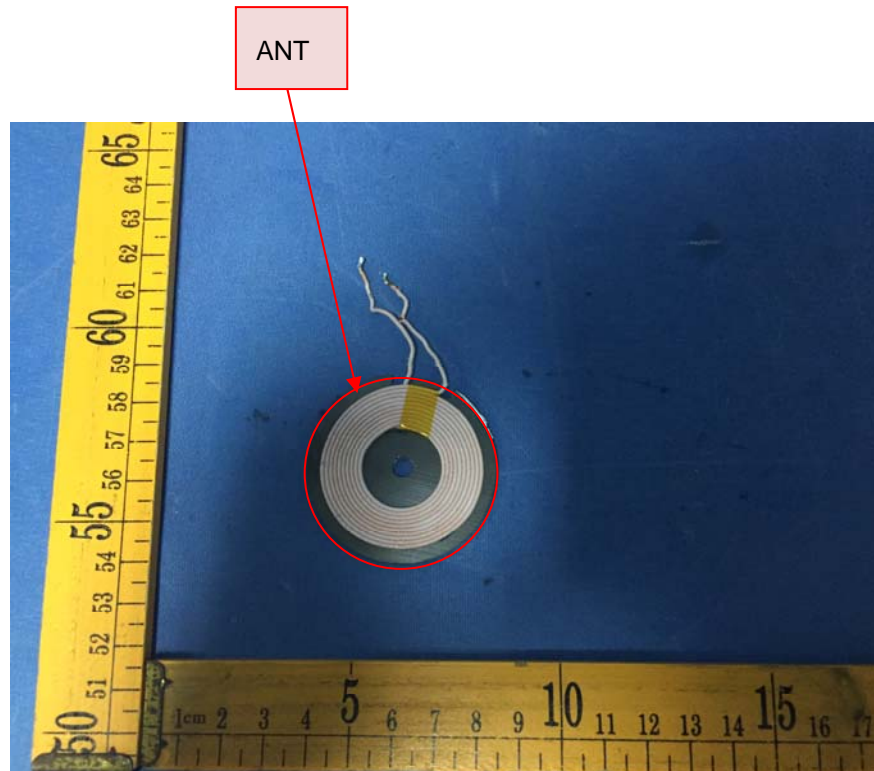
Test Side	Separation Distance(cm)	E-Field Measured(V/m)	E-Field Limit(V/m)
Left	15	5.28	614
Right	15	5.48	614
Front	15	5.60	614
Rear	15	5.41	614
Top	20	6.67	614
Bottom	15	5.99	614
Margin Limit (%)		1.09%	

Remark: The device meets the mobile RF exposure limit at a 15cm separation distance as specified in §2.1091 of the FCC Rules and meeting all of the following requirements as follows:

- (1) Power transfer frequency is less than 1 MHz.
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

6.4 EUT coupling surface area

The inductive area is below (Coupling area: \varnothing 40mm, The located at top of the equipment):



7. Photographs-Test Setup

Left Side(measurement distance of 15cm)



Right Side(measurement distance of 15cm)



Front Side(measurement distance of 15cm)



Rear Side(measurement distance of 15cm)



Top Side(measurement distance of 20cm)



Bottom Side(measurement distance of 15cm)



=====End of Report=====