

# RF Exposure Report

Report No.: AGC05505210604FH03

**APPLICATION PURPOSE**

: Original Equipment

**PRODUCT DESIGNATION**

: 2 in 1 20.5W Wireless Fast charging Station with Full USB Charging Port and 30W PD Wall Charger

**BRAND NAME**

: MAGNAVOX, CRAIG, NEWTECH

**MODEL NAME**

: MCH3383C, CCH3383C, NCH3383C

**APPLICANT**

: Shenzhen TBL industrial Co.Ltd

**DATE OF ISSUE**

: Jul. 14, 2021

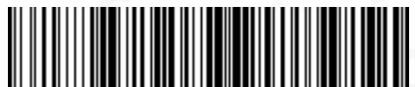
**STANDARD(S)**

: KDB680106 D01 RF Exposure Wireless Charging Base App v03

**REPORT VERSION**

: V1.0

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**REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 14, 2021	Valid	Initial Release

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**TABLE OF CONTENTS**

<b>1. VERIFICATION OF CONFORMITY.....</b>	<b>4</b>
<b>2. GENERAL INFORMATION.....</b>	<b>5</b>
2.1. PRODUCT DESCRIPTION.....	5
<b>3. DESCRIPTION OF TEST MODES.....</b>	<b>6</b>
<b>4. SYSTEM TEST CONFIGURATION.....</b>	<b>6</b>
<b>5. TEST FACILITY.....</b>	<b>7</b>
<b>6. RADIO FREQUENCY(RF) EXPOSURE TEST.....</b>	<b>8</b>
6.1. LIMITS.....	8
6.2. TEST SETUP.....	8
<b>APPENDIX A: PHOTOGRAPHS OF TEST SETUP.....</b>	<b>12</b>

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## 1. VERIFICATION OF CONFORMITY

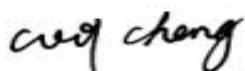
<b>Applicant</b>	Shenzhen TBL industrial Co.Ltd
<b>Address</b>	202, 2nd building, 10th Xian Xiang Road, Xin Sheng Community, Long Gang Street, Long Gang District, ShenZhen
<b>Manufacturer</b>	Shenzhen TBL industrial Co.Ltd
<b>Address</b>	202, 2nd building, 10th Xian Xiang Road, Xin Sheng Community, Long Gang Street, Long Gang District, ShenZhen
<b>Factory</b>	Shenzhen TBL industrial Co.Ltd
<b>Address</b>	202, 2nd building, 10th Xian Xiang Road, Xin Sheng Community, Long Gang Street, Long Gang District, ShenZhen
<b>Product Designation</b>	2 in 1 20.5W Wireless Fast charging Station with Full USB Charging Port and 30W PD Wall Charger
<b>Sample No</b>	210618079
<b>Brand Name</b>	MAGNAVOX, CRAIG, NEWTECH
<b>Test Model:</b>	MCH3383C
<b>Series Model</b>	CCH3383C, NCH3383C
<b>Difference description</b>	All the same except for the model name
<b>Date of test</b>	Jun. 18, 2021 to Jul. 13, 2021
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Report Template</b>	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in KDB680106 D01.

The results of testing in this report apply to the product/system which was tested only.

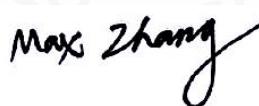
Prepared By



Cool Cheng  
(Project Engineer)

Jul. 14, 2021

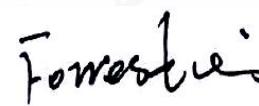
Reviewed By



Max Zhang  
(Reviewer)

Jul. 14, 2021

Approved By



Forrest Lei  
(Authorized Officer)

Jul. 14, 2021

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	114KHz-149KHz
<b>Test Frequency</b>	14kHz/143.6kHz/147.3kHz
<b>Maximum field strength</b>	53.62dBuV/m(PK)@3m
<b>Number of channels</b>	1
<b>Antenna Designation</b>	Coil Antenna (Met 15.203 Antenna requirement)
<b>Hardware Version</b>	V5C-V2.0
<b>Software Version</b>	V5_UFBPT & 333_UFJIT
<b>Power Supply(Input)</b>	DC5V 3A, DC9V 3A, DC12V 2.5A, DC15V 2A, DC20V 1.5A
<b>Wireless Charging Output power</b>	18W/15W/3W

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### 3. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	USB-C input PD 20V 1.5A + Wireless charging Mode(Full load 18W) + USB port charge 2.5W
2	USB-C input PD 15V 2A + Wireless charging Mode(Full load 18W) + USB port charge 2.5W
3	USB-C input PD 12V 2.5A + Wireless charging Mode(Full load 18W) + USB port charge 2.5W
4	USB-C input PD 9V 3A + Wireless charging Mode(Full load 18W) + USB port charge 2.5W
5	USB-C input PD 20V 1.5A + Wireless charging Mode(with load 15W) + USB port charge 2.5W
6	USB-C input PD 9V 3A + Wireless charging Mode(with load 15W) + USB port charge 2.5W
7	USB-C input PD 20V 1.5A + Wireless charging Mode(with load 10.5W) + USB port charge 2.5W
8	USB-C input PD 9V 3A + Wireless charging Mode(with load 10.5W) + USB port charge 2.5W
9	USB-C input PD 20V 1.5A + Wireless charging Mode(with load 3W) + USB port charge 2.5W
10	USB-C input PD 5V 3A + Wireless charging Mode(with load 3W) + USB port charge 2.5W
11	Wireless charging Mode(Null load)

Note: The mode 1 was the worst case and only the data of the worst case record in this report.

### 4. SYSTEM TEST CONFIGURATION

Item	Equipment	Model No.	ID or Specification	Remark
1	2 in 1 20.5W Wireless Fast charging Station with Full USB Charging Port and 30W PD Wall Charger	MCH3383C	2AWGNMCH3383C	EUT
2	Adapter	GW-30PD300U	Input: 100-240V, 50/60Hz, 1A Output: DC5V 3A, DC9V 3A, DC12V 2.5A, DC15V 2A, DC20V 1.5A	Accessory
3	Wireless Load	N/A	N/A	Accessory
4	Mobile phone	N/A	N/A	AE
5	Earphone	N/A	N/A	AE

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**5. TEST FACILITY**

<b>TestSite</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

**TEST EQUIPMENT LIST**

<b>Description</b>	<b>Manufacturer</b>	<b>Model</b>	<b>S/N</b>	<b>Cal. Date</b>	<b>Cal. Due</b>
Broadband Field Meter	WAVECONTROL	SMP2	J-0004	Jun. 10, 2021	Jun. 09, 2022
Probe FHP	WAVECONTROL	WP400	J-0015	Jun. 10, 2021	Jun. 09, 2022

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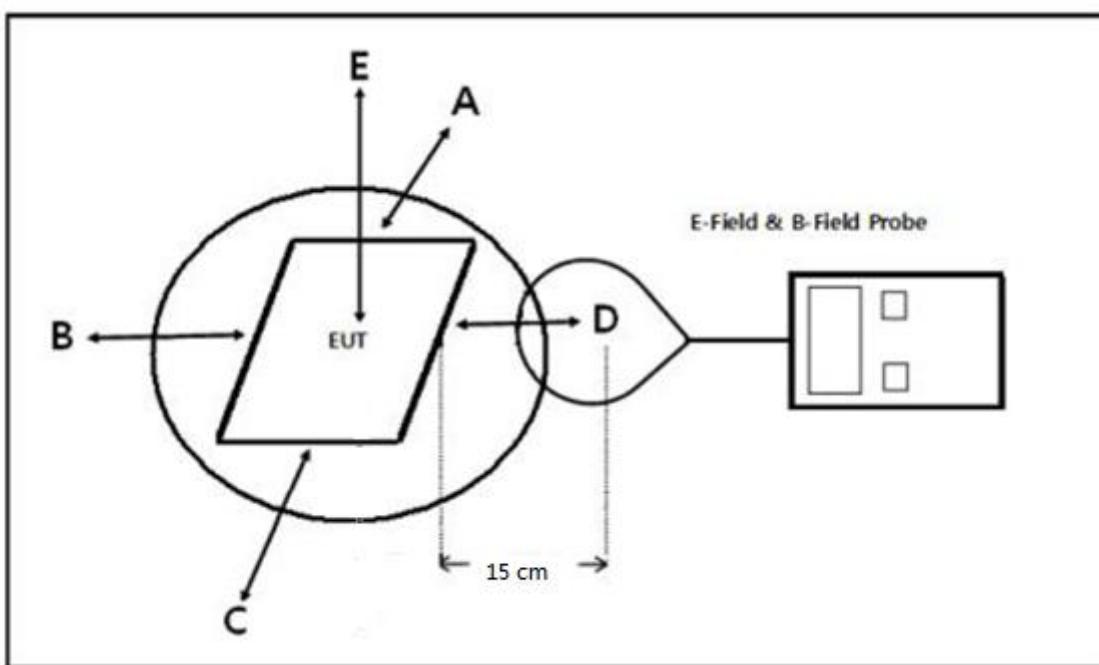


## 6. RADIO FREQUENCY(RF) EXPOSURE TEST

### 6.1. LIMITS

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m.

### 6.2. TEST SETUP



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT(20 cm measure distance);

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### 6.3. TEST PROCEDURE

The EUT was placed on a non-conductive table top and the ancillary equipment (e.g. mobile phone) was placed on the EUT for charging.

Maximum E-field and H-field measurements were tested 15cm from each side of the EUT. For top side the measure distance is 20cm.

Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

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## 6.4. TEST RESULT

Test condition: Mode 1

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)	50% Limit (V/m)
134kHz	1.24	1.17	1.13	1.16	1.72	614	307

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)	50% Limit (V/m)
134kHz	0.43	0.39	0.38	0.40	0.61	1.63	0.815

Test condition: Mode 2

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)	50% Limit (V/m)
137.5kHz	0.96	0.90	0.93	0.95	1.05	614	307

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)	50% Limit (V/m)
137.5kHz	0.37	0.33	0.35	0.31	0.52	1.63	0.815

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Test condition: Mode 3

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)	50% Limit (V/m)
142.3kHz	0.64	0.67	0.62	0.66	0.78	614	307

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)	50% Limit (V/m)
142.3kHz	0.15	0.17	0.14	0.13	0.20	1.63	0.815

Note: Unit conversion formula:  $1nT = 796\mu A/m$

## 6.5 CONCLUSION.

The RF exposure assessment meets the requirements

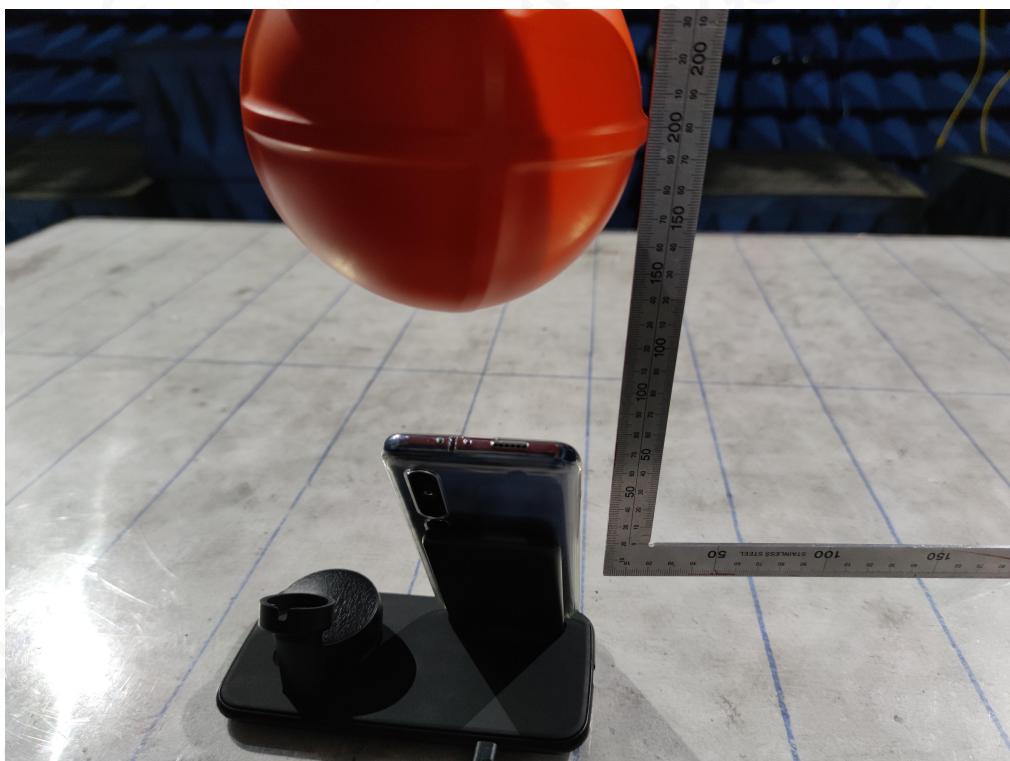
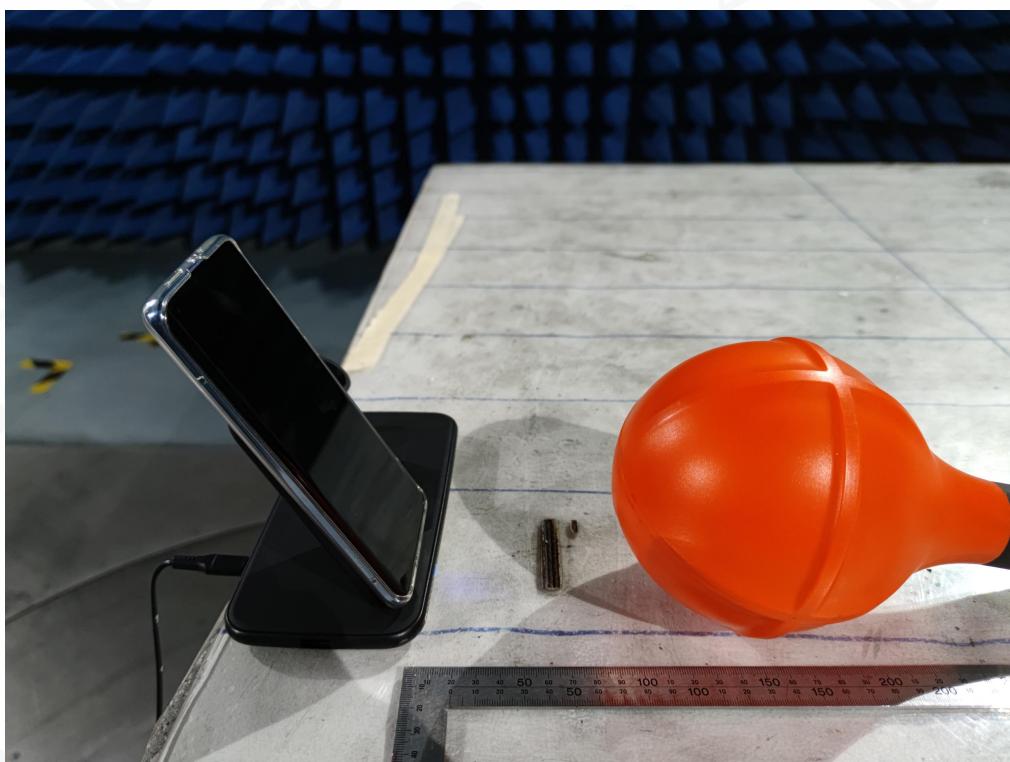
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**APPENDIX A: PHOTOGRAPHS OF TEST SETUP****Position E****Position A**

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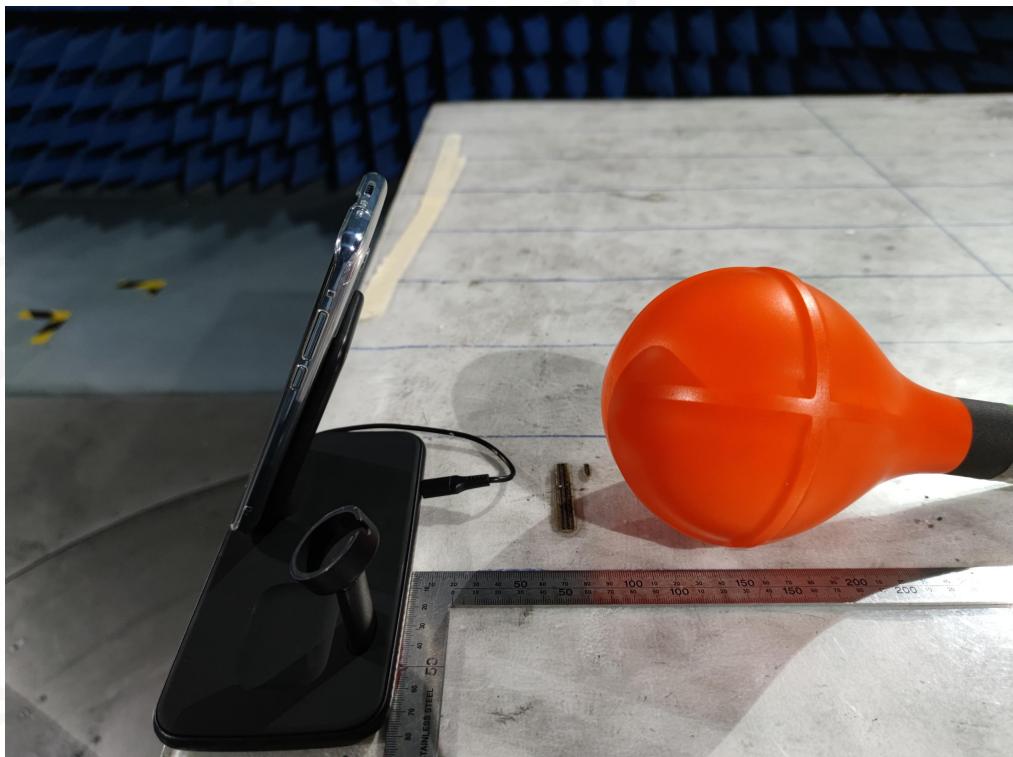
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Position B



Position C



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