

The Mines Press, Inc

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
745-067

REPORT NUMBER:
191000090SHA-002

ISSUE DATE:
Nov 4, 2019

DOCUMENT CONTROL NUMBER:
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Applicant: The Mines Press, Inc
231 Croton Avenue, Cortlandt Manor, NY 10567 USA

Manufacturer: The Mines Press, Inc
231 Croton Avenue, Cortlandt Manor, NY 10567 USA
The Mines Press, Inc

Manufacturing site: Shenzhen CWC Technology Co., Ltd.
Zone B, 5 Building, Mei'jia'mei Industrial Park, Guiyue Road, Guanlan
Street, Longhua, Shenzhen, China

FCC ID: 2ATXKWC745067

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

FCC PART 1 SECTION 1.1310

PREPARED BY:**REVIEWED BY:**

Project Engineer
Teddy Yin



Reviewer
Daniel Zhao

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Revision History

Report No.	Version	Description	Issued Date
191000090SHA-002	Rev. 01	Initial issue of report	Nov 4, 2019

Measurement result summary

TEST ITEM	FCC REFERENCE	TEST RESULT	NOTE
RF Exposure	1.1310	Pass	-

Notes: 1: NA =Not Applicable

2. Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Narwhal Wireless Charger
Type/Model:	745-067
Description of EUT:	EUT is a wireless charger.
Rating:	Input: DC5V, 2A Output: DC5V, 1A or DC9V, 1.1A
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	Oct 9, 2019
Date of test:	Oct 9~14, 2019

1.2 Technical Specification

Frequency Range:	105kHz – 210kHz
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TEST REPORT

1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN1175
	IC Registration Lab CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC PART 1 SECTION 1.1310

KDB 680106 D01 RF Exposure Wireless Charging App v03

2.2 Mode of operation during the test

Within this test report, EUT was tested under all modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used. The worst data was listed in the report.

2.3 Test peripherals list

Item No.	Name	Band and Model	Description
1	Wireless load	/	100% power level
2	Wireless load	/	50% power level
3	Wireless load	/	0% power level

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	25°C	55% RH	101

2.5 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Exposure Level Tester	Narda	ELT-400	EC 2928	2020-08-14
☒	Field sensor & Field meter	AR	FL17000	EC 5818-1	2020-05-21

3 RF Exposure Assessment

Test result: Pass

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

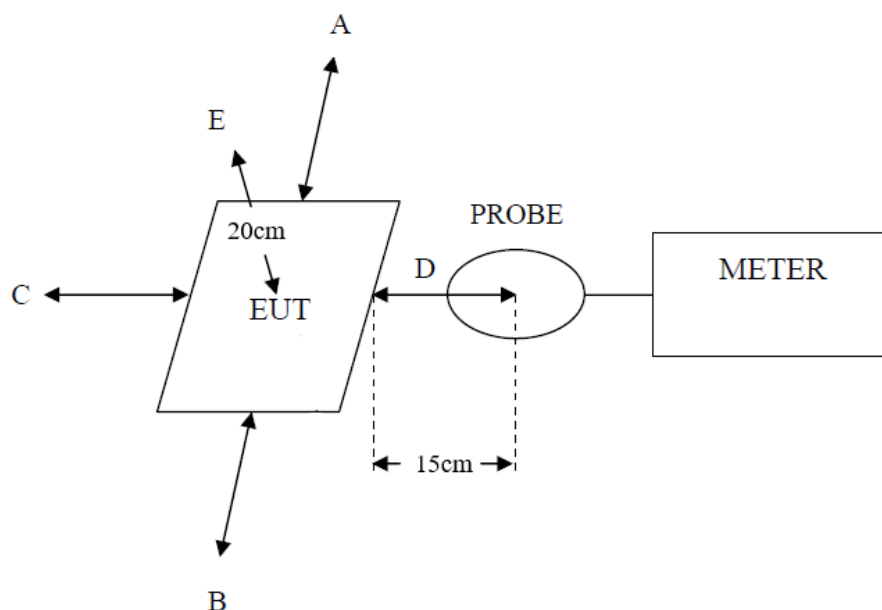
Limits for General Population/Uncontrolled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	30
0.3 – 1.34	614	1.63	*100	30
1.34 – 30	824/f	2.19/f	*180/f ²	30
30 – 300	27.5	0.073	0.2	30
300 – 1 500	-	-	f/1500	30
1 500 – 100 000	-	-	1.0	30

Limits for Occupational/Controlled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	6
0.3 – 3.0	614	1.63	*100	6
3.0 – 30	1842/f	4.89/f	*900/f ²	6
30 – 300	61.4	0.163	1.0	6
300 – 1 500	-	-	f/300	6
1 500 – 100 000	-	-	5	6

3.2 Assessment Configuration



3.3 Assessment Results

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Test result (A/m)	Limit (A/m)	Result (Pass/Fail)
A: Right	15	0.0052	1.63 *0.5	Pass
B: Left	15	0.0055	1.63 *0.5	Pass
C: Front	15	0.0049	1.63 *0.5	Pass
D: Back	15	0.0058	1.63 *0.5	Pass
E: Top	20	0.0053	1.63 *0.5	Pass

Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)	Result (Pass/Fail)
A: Right	15	1.47	614 *0.5	Pass
B: Left	15	1.53	614 *0.5	Pass
C: Front	15	1.38	614 *0.5	Pass
D: Back	15	1.64	614 *0.5	Pass
E: Top	20	1.59	614 *0.5	Pass

***** END *****