

IKEA of Sweden AB

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
E1805 Nordmärke

REPORT NUMBER:
181101199SHA-002

ISSUE DATE:
November 19, 2018

DOCUMENT CONTROL NUMBER:
TTRFFCCMPE-02_V1 © 2018 Intertek



Applicant : IKEA of Sweden AB
P.O. Box 702, S-343 81 Älmhult, SWEDEN

Manufacturer : IKEA of Sweden AB
P.O. Box 702, S-343 81 Älmhult, SWEDEN

Factory : Dongguan Kee Tat Lighting Limited
Kai Shek Cheng, Dongguan, Guangdong Province 523000, China

SUMMARY:

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

FCC PART 1 SECTION 1.1310

PREPARED BY:



Project Engineer
Nemo Li

REVIEWED BY:



Reviewer
Daniel Zhao

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Revision History

Report No.	Version	Description	Issued Date
181101199SHA-002	Rev. 01	Initial issue of report	September 19, 2018

Measurement result summary

TEST ITEM	FCC REFERANCE	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.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Wireless Charger
Type/Model:	E1805 Nordmärke
Description of EUT:	EUT is a wireless charger and has only one model.
Rating:	19V DC Adaptor Input: 100-120V~ 50/60Hz Output: 19V DC
Category of EUT:	Class B
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	July 10, 2018
Date of test:	July 10, 2018 ~ September 11, 2018

1.2 Technical Specification

Frequency Range:	110kHz – 205kHz
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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 Registration code No.: 2042B-1
	VCCI Registration Lab Registration No.: R-4243, G-845, C-4723, T-2252
	NVLAP Accreditation Lab NVLAP LAB CODE: 200849-0
	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 the following seven modes and tested under its rating voltage and frequency. Other voltage and frequency is specified if used. The worst data of mode 3 was listed in the report.

Mode 1	Module 1 charging
Mode 2	Module 2 charging
Mode 3	Module 1 and 2 charging

2.3 Test peripherals list

Item No.	Name	Band and Model	Description
1	wireless load	Provided by client	100% power level
2	wireless load	Provided by client	50% power level
3	wireless load	Provided by client	0% power level

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	23	57	102

TEST REPORT**2.5 Instrument list**

Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Exposure Level Tester	Narda	ELT-400	EC 2928	2019-08-15
<input checked="" type="checkbox"/>	Field sensor & Field meter	AR	FL17000	EC 5818-1	2019-05-21

TEST REPORT

3 RF Exposure Assessment

Test result: Pass

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

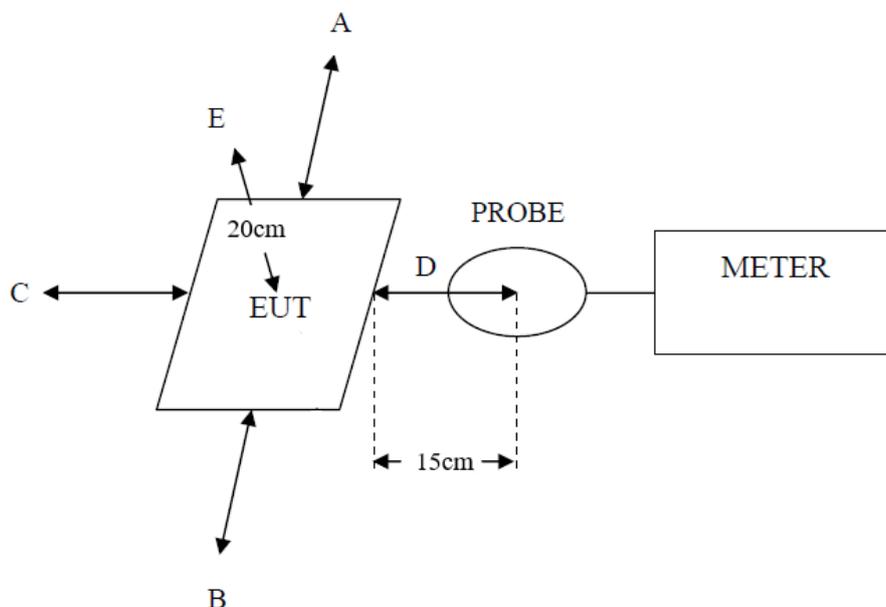
Limits for General Population/Uncontrolled Exposure

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



TEST REPORT**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	0.274	1.63 *0.5	Pass
B: Left	15	0.273	1.63 *0.5	Pass
C: Front	15	0.279	1.63 *0.5	Pass
D: Back	15	0.278	1.63 *0.5	Pass
E: Top	20	0.276	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	4.25	614 *0.5	Pass
B: Left	15	4.22	614 *0.5	Pass
C: Front	15	4.35	614 *0.5	Pass
D: Back	15	4.33	614 *0.5	Pass
E: Top	20	4.36	614 *0.5	Pass

***** END *****