

IKEA of Sweden AB

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
E1903 Nordmärke

REPORT NUMBER:
190501693SHA-002

ISSUE DATE:
November 20, 2019

DOCUMENT CONTROL NUMBER:
TTRFFCCMPE-01_V1 © 2018 Intertek



Applicant: IKEA of Sweden AB
Box 702, 343 81 ÄLMHULT Sweden

Manufacturer: IKEA of Sweden AB
Box 702, 343 81 ÄLMHULT Sweden

FCC ID: FHO-E1903

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
Erick Liu

REVIEWED BY:



Reviewer
Daniel Zhao

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Revision History

Report No.	Version	Description	Issued Date
190501693SHA-002	Rev. 01	Initial issue of report	November 20, 2019

Measurement result summary

TEST ITEM	FCC REFERANCE	TEST RESULT	NOTE
RF Exposure	FCC PART 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:	Wireless Charger
Type/Model:	E1903 Nordmärke
Description of EUT:	The EUT is a Wireless Charger for indoor use. It can be supplied by adapter. When test is performed, it is loaded by 3x Qi charger pad.
Rating:	Input: 19Vdc, 1.74A
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:	May 21, 2019
Date of test:	May 22, 2019- June 14, 2019

1.2 Technical Specification

Frequency Range	112kHz-148 kHz
Antenna Information:	0dBi, Inductive loop coil antenna

1.3 Mode of operation during the test / Test peripherals used

Item No.	Model number	Brand name	Mode
1	Load1	Provided by client	100% Power level
2	Load2	Provided by client	50% Power level
3	Load3	Provided by client	Stand by

We tested the load at all three power level modes, and the 100% Power level mode is the worst case, we listed the results in this report.

1.4 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
	A2LA Accreditation Lab Certificate Number: 3309.02

2 Test Specification

2.1 Instrument list

Used	Equipment	Manufacturer	Type	Due date
<input checked="" type="checkbox"/>	Exposure Level Tester	Narda	ELT-400	2020.8.4
<input checked="" type="checkbox"/>	Field sensor	AR	FP6001	2020-8-4
<input checked="" type="checkbox"/>	Field meter	AR	FM5004	2020-8-4

3 RF Exposure

Test result: Pass

3.1 Limit

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 ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30

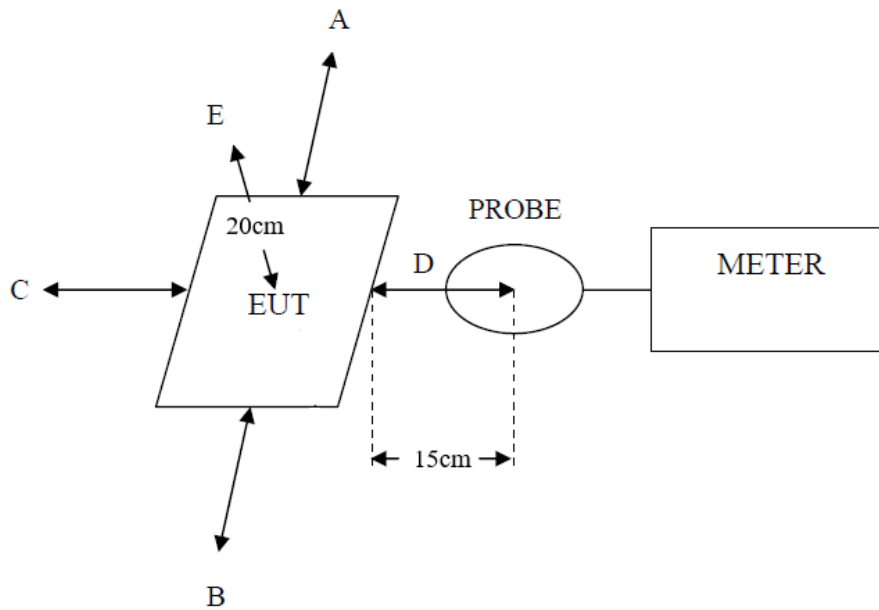
f = frequency in MHz

*Plane-wave equivalent power density

KDB 680106 D01(3)(3):

For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 10 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 10 cm measured from the center of the probe(s) to the edge of the device.

3.2 Test Configuration



3.3 Test Protocol

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Test result (A/m)	Limit (A/m)
A: Right	15	0.0466	1.63/2
B: Left	15	0.0572	1.63/2
C: Front	15	0.0526	1.63/2
D: Back	15	0.0489	1.63/2
E: Top	20	0.0879	1.63/2

Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)
A: Right	15	2.55	614/2
B: Left	15	2.41	614/2
C: Front	15	2.85	614/2
D: Back	15	2.58	614/2
E: Top	20	2.61	614/2

***** END *****