

# IKEA of Sweden AB

## MPE ASSESSMENT REPORT

**Report Type:**

FCC MPE assessment report

**Model:**

E2018 SJÖMÄRKE

**REPORT NUMBER:**

201000125SHA-002

**ISSUE DATE:**

January 20, 2021

**DOCUMENT CONTROL NUMBER:**

TTRFFCCMPE-02\_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-E2018**

### 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
201000125SHA-002	Rev. 01	Initial issue of report	January 20, 2021

## 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.

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:	E2018 SJÖMÄRKE
Description of EUT:	EUT is a wireless charger, it has only one model.
Rating:	Input: 24Vdc, 0.7A
Category of EUT:	Class B
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample Identification No.:	02010009-67-001
Sample received date:	October 09, 2020
Date of test:	October 09, 2020 ~ November 27, 2020

### 1.2 Technical Specification

Frequency Range:	110kHz – 148kHz
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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 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	KjB/ZS3012	100% power level
2	Wireless load	KjB/ZS3012	50% power level
3	Wireless load	KjB/ZS3012	0% power level

### 2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	24	53	101

## 2.5 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Exposure Level Tester	Narda	ELT-400	EC 2928	2021-08-15
<input checked="" type="checkbox"/>	Field sensor & Field meter	AR	FL17000	EC 5818-1	2022-05-21

## 2.6 Measurement uncertainty

Test Items	Expanded Uncertainty (k=2)
H-field	0.9 dB
E-field	1.1 dB



**TEST REPORT**

**3 RF Exposure Assessment**

Test result: Pass

**3.1 Assessment Limit**

Reference: 47 CFR §1.1310, KDB 680106

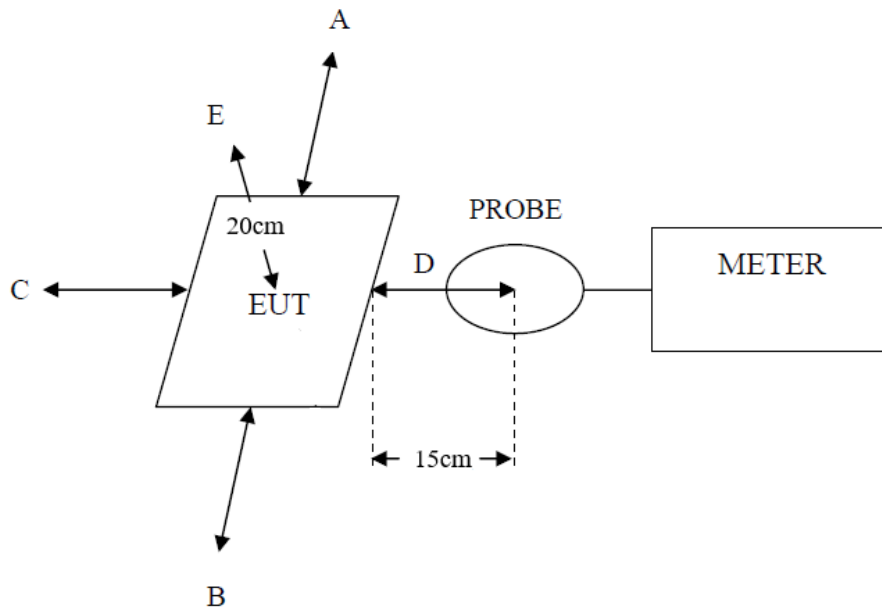
Limits for General Population/Uncontrolled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm <sup>2</sup> ]	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 <sup>2</sup>	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 <sup>2</sup> ]	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 <sup>2</sup>	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	0.085	1.63 *0.5	Pass
B: Left	15	0.079	1.63 *0.5	Pass
C: Front	15	0.072	1.63 *0.5	Pass
D: Back	15	0.088	1.63 *0.5	Pass
E: Top	20	0.069	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	0.88	614 *0.5	Pass
B: Left	15	0.86	614 *0.5	Pass
C: Front	15	0.97	614 *0.5	Pass
D: Back	15	0.97	614 *0.5	Pass
E: Top	20	0.83	614 *0.5	Pass

\*\*\*\*\* END \*\*\*\*\*