

RF exposure Estimation for CP61

1. Introduction

Product:	Wireless Charger
Model no.:	CP61
FCC ID:	QISCP61
Options and accessories:	Adapter and USB Cable
Rating:	5-10Vdc 4A Max supplied by an external adapter
Adapter information:	<p>Adapter 1: Manufacturer:Huawei Technologies Co.,Ltd. Model: HW-100400E00 Input voltage:100-240V 50/60Hz 1.2A Output voltage:5V \equiv 2A or 9V \equiv 2A or 10V \equiv 4A Max</p> <p>Adapter 2: Manufacturer:Huawei Technologies Co.,Ltd. Model: HW-100400E01 Input voltage:100-240V 50/60Hz 1.2A Output voltage:5V \equiv 2A or 9V \equiv 2A or 10V \equiv 4A Max</p>
RF Transmission Frequency:	111-145KHz
Antenna Type:	Integrated coil antenna
Description of the EUT:	The Equipment Under Test (EUT) is a wireless charger which operated at 111-145kHz.

2. Limit and Guidelines on Exposure to Electromagnetic Fields

According to §1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
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
(B) Limits for General Population/Uncontrolled Exposure				
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

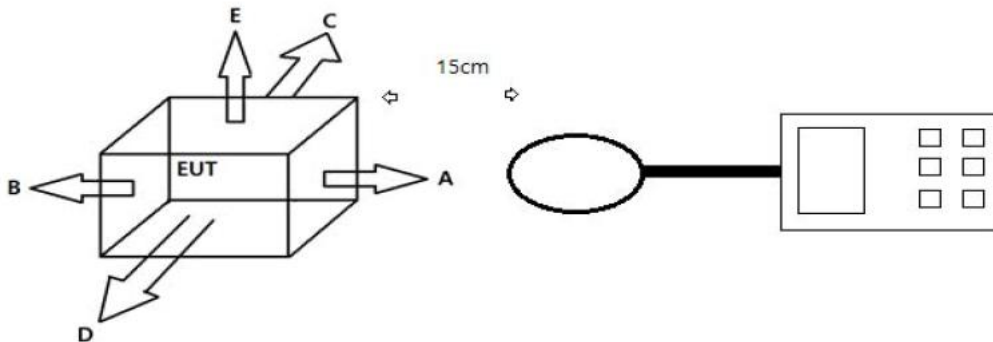
f = frequency in MHz

* = Plane-wave equivalent power density

3. Test Equipment List

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Exposure Level Tester	Narda	ETL-400	K-0018	2020-05-16
B-Field Sensor	Narda	1Hz-400kHz	2300/90.10	2020-05-16

4. Test setup



5. Test Result

Electric Field Emissions					
Test Position	Test Distance (cm)	Measure Value (V/m)	Limit (V/m)	50% Limit (V/m)	Result
A	15	135.602	614	307	Pass
B	15	135.301	614	307	Pass
C	15	146.426	614	307	Pass
D	15	145.825	614	307	Pass
E	15	168.375	614	307	Pass
Magnetic Field Emissions					
Test Position	Test Distance (cm)	Measure Value (A/m)	Limit (A/m)	50% Limit (A/m)	Result
A	15	0.451	1.63	0.815	Pass
B	15	0.450	1.63	0.815	Pass
C	15	0.487	1.63	0.815	Pass
D	15	0.485	1.63	0.815	Pass
E	15	0.560	1.63	0.815	Pass

Remark: test standard refers to KDB 680106 D01 v03.

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